Panasonic
BUSINESS

# NEW PRODUCTS 2019 — 2020

THE WORLD OF HEATING AND COOLING
IS CHANGING WITH PANASONIC





heating & cooling solutions

# AQUAREA

## Aquarea Air to Water Heat Pump Range.

Aquarea is a ground breaking low energy system for heating and domestic hot water production: delivering outstanding performance, even at extreme outdoor temperatures.

### New Aquarea R32.

In the way of offering a more environmentally friendly choice for heating installations, Aquarea is available during 2019 in R32. This pure refrigerant has lower GWP than currently used R410A. Making Aquarea excellent choice for those who really care the environment. Aquarea J Series, this new generation is newly designed to work with R32.







### New Aquarea J Generation.

This new generation designed for R32 refrigerant include many other improvements. Such as high piping range, chiller function cooling down to 10°C, DHW COP up to 3,30, improved back up heater function for real bivalent function, SG Ready and PV function for cooling, heating curve can be set up down to -20°C, water pump speed can be set up fixed of auto, magnet filter, efficient or comfort mode for DHW, and other improvements to bring more value and makes easier installation.

### Aquarea Smart Cloud for professionals.

Aquarea Smart Cloud will activate remote maintenance service while end user is controlling and monitoring its heating and DHW remotely. This remote maintenance will save time, installation visits by connecting Aquarea to a powerful cloud infrastructure. Remote checker, remote error codes, remote set up functions... all this will be possible by installers with CZ-TAW1 and end user acceptance.





### New advanced cascade control.

Advanced Cascade Control that manages up to 10 Aquarea Heat Pumps. Up to 3 M-BUS devices connectable for heat or current meter, demand PV fucntions, control 3 way valves, Modbus IP for BMS communication, DHW logic, easy to set up and control with touch display built in.

### New accessories for Aquarea.

Aquarea Heat Pumps have available a wide list of high valuable accessories. Such as high class tanks, Combo Tanks, Fan Coils, interfaces, and other accessories that will ensure the high performance of the heating solution.



# DOMESTIC

## Domestic Range.

Panasonic has developed a range of domestic products designed for you and your clients.

### R32 full domestic range.

All Domestic has transformed to R32 with excellent performance. Panasonic has not just fully adapted to new refrigerant, the new units has been design to maximize the advantages of new refrigerant from Wall, to Cassette, Hide Away, Floor Console and Multi Split Systems.





### Etherea stylish and outstanding features.

Highest energy class A+++ in both heating and cooling, purifies the air with advance purifying nanoe™ X system with imperceptible 19dB(A). New Etherea VKE is equipped with built-in WLAN for internet control and monitoring, by using Panasonic Comfort Cloud App.

### Purifying air we breath.

Panasonic systems are equipping different technologies to purify and clean the air. Anti allergy nanoe™ X and PM2,5 filters are some examples to take care of the air we breathe.






### Stylish Floor Console.

The R32 Floor Console has been designed for European market from Scratch. Floor Consoles purifies the air with nanoe™ X, quiet operation, high efficiency, new design control remote and accurate design are its attributes.

Floor Console awarded with the prestigious IF Design Award 2019.

### Panasonic Comfort Cloud control.

Panasonic Comfort Cloud control, with completely new user interface and controlling all domestic functions.



# COMMERCIAL

## Commercial Range.

The commercial range is constantly expanding so that you can always offer your clients the optimal solutions: high performance, silent machines and a complete range of ducts, cassettes and ceiling installations.

### Panasonic PACi R32 up to 25,00kW.

R32 PACi range helps to find more environmental friendly solutions in commercial applications. This pure refrigerant also increase the efficiency of the system. Panasonic PACi R32 covers all ranges from 3,60 up to 25,00kW, the low GWP solution for retail.






### nanoe™ X purifies air with PACi 90x90 Cassette.

Thanks to advances in design and technology such as the new high performance turbo fan, which is more efficient and silent, the nanoe™ X air cleaner which provides healthy air, the floor temperature and humidity sensor that give more control, the new PU2 Panasonic 90 x 90 4 way Cassette provides a high-class solution for energy savings, healthy environment and comfort.

### Wall design wall type PK2 Series.

Commercial air conditioning and aesthetics find a new ally in with PK2 series. Following same shape as design award Etherea, PK2 series will combine with any indoor design.





### Server room solutions.

Choose the best solution to ensure any server room needs. Designed for high durability and adverse weather conditions its server room ad hoc control essure permanent operation and failure alarms communications.

**Control CZ-RTC5B with datanavi.**
Ready to control 2 PACi systems with backup and alternate operation.

### New PACi WLAN Interface.

New Panasonic interface CZ-CAPWFC1 allows to connect one indoor unit or a group of indoor units to be managed by Panasonic Comfort Cloud App, for control, monitor, schedule and error code alerts.
This advanced smartphone control gives more possibility for your comfort life.



# VRF

## VRF Systems.

The VRF industrial range considerably improves efficiency so even large buildings can benefit from a high-level of comfort with less energy consumption.

### VRF Systems ECOi EX.

A VRF System delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.
It represents a true paradigm shift in air conditioning solutions.





### Mini ECOi LE Series.

The Mini ECOi combines smartly compact body with high specifications. It delivers high levels of energy-saving, powerful operation, reliability and comfort.

### 2-Pipe ECO G GE3 Series.

"L" type heat exchanger and new inverter DC fan motor with a 3-blade propeller to improve energy efficiency through about 30% reduction in electrical power consumption.






### VRF Smart Connectivity.

Panasonic's VRF Smart Connectivity is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and running.

### Panasonic AC Smart Cloud.

Centralised control of your business premises, from wherever 24/7.
Smartly control, maintain, optimise and save.



# INDEX




## EDITORIAL


6 A DESIRE TO CREATE THINGS OF VALUE
8 A GLOBALLY TRUSTED AIR CONDITIONING BRAND
10 100% PANASONIC, THE DNA OF JAPANESE CRAFTSMANSHIP
12 PANASONIC: ECO & SMART IDEAS FOR A SUSTAINABLE LIFESTYLE
14 PROJECTS & CASE STUDIES OF PANASONIC HEATING AND COOLING SOLUTIONS
16 PRO CLUB. THE PROFESSIONAL WEBSITE OF PANASONIC
17 AQUAREA DESIGNER


CE

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

**Quality Management System Certificate**

**Certified to ISO 9001: 2008**
Panasonic Appliances Air-Conditioning Malaysia. Sdn.Bhd.
Cert. No.: MY-AR 1010

**Certified to ISO 9001: 2008**
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 01209Q20645R5L

**Environmental Management System Certificate**

**Certified to ISO 14001: 2004**
Panasonic Appliances Air-Conditioning Malaysia Sdn.Bhd.
Cert. No.: MY-ER0112

**Certified to ISO 14001: 2004**
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 02110E10562R4L



## AQUAREA


18 WELCOME TO AQUAREA AIR TO WATER HEAT PUMP
20 HIGHLIGHTED FEATURES
22 HOW DO YOU GET HEATING AND DOMESTIC HOT WATER FROM AIR?
24 AQUAREA HEAT PUMP LINE-UP
26 AQUAREA J GENERATION A+++ FROM SEPTEMBER 2019
28 AQUAREA H GENERATION A+++
30 AQUAREA HIGH PERFORMANCE
32 AQUAREA T-CAP
34 AQUAREA HT
36 AQUAREA COMMERCIAL
38 AQUAREA SMART AND SERVICE CLOUD
40 CONTROL AND CONNECTIVITY
41 AQUAREA + PV PANELS
42 PANASONIC'S AQUAREA OFFERS THE BEST FOR YOU AND YOUR HOME
44 AQUAREA HEAT PUMPS LINE-UP
46 NEW AQUAREA HIGH PERFORMANCE ALL IN ONE J GENERATION SINGLE PHASE. HEATING AND COOLING 1 OR 2 ZONES • R32 GAS
47 NEW AQUAREA HIGH PERFORMANCE BI-BLOC J GENERATION SINGLE PHASE. HEATING AND COOLING - SDC • R32 GAS
48 AQUAREA HIGH PERFORMANCE ALL IN ONE H GENERATION SINGLE PHASE. HEATING AND COOLING 1 OR 2 ZONES • R410A GAS
49 AQUAREA HIGH PERFORMANCE ALL IN ONE H GENERATION SINGLE PHASE / THREE PHASE. HEATING AND COOLING • R410A GAS
50 AQUAREA T-CAP ALL IN ONE H GENERATION SINGLE PHASE / THREE PHASE. HEATING AND COOLING • R410A GAS
51 AQUAREA T-CAP ALL IN ONE H GENERATION THREE PHASE. SUPER QUIET OUTDOOR UNIT. HEATING AND COOLING • R410A GAS
52 AQUAREA HIGH PERFORMANCE BI-BLOC H GENERATION SINGLE PHASE. HEATING AND COOLING - SDC • R410A GAS
53 AQUAREA HIGH PERFORMANCE BI-BLOC H GENERATION SINGLE PHASE / THREE PHASE. HEATING AND COOLING - SDC • R410A GAS
54 AQUAREA T-CAP BI-BLOC H GENERATION SINGLE PHASE / THREE PHASE. HEATING AND COOLING - SXC • R410A GAS
55 AQUAREA T-CAP BI-BLOC H GENERATION THREE PHASE. SUPER QUIET OUTDOOR UNIT. HEATING AND COOLING - SQC • R410A GAS
56 AQUAREA HIGH PERFORMANCE MONO-BLOC H GENERATION SINGLE PHASE. HEATING AND COOLING - MDC • R410A GAS
57 AQUAREA T-CAP MONO-BLOC H GENERATION SINGLE PHASE / THREE PHASE. HEATING AND COOLING - MXC • R410A GAS
58 AQUAREA HT BI-BLOC F GENERATION SINGLE PHASE / THREE PHASE. HEATING ONLY - SHF • R407C GAS
59 AQUAREA HT MONO-BLOC G GENERATION SINGLE PHASE. HEATING ONLY - MHF • R407C GAS
60 AQUAREA AIR
61 FAN COILS
62 DHW STAND ALONE
64 SANITARY TANKS
66 ACCESSORIES AND CONTROL
68 HEATING & COOLING CAPACITY TABLES. BASED ON OUTLET TEMPERATURE AND OUTSIDE TEMPERATURE
77 EXAMPLES OF INSTALLATIONS




## DOMESTIC


78 WELCOME TO DOMESTIC RANGE
80 HIGHLIGHTED FEATURES
82 R32 REFRIGERANT GAS
84 ETHEREA STYLISH AND OUTSTANDING FEATURES
86 HEATCHARGE. ENERGY CHARGE SYSTEM
88 WALL MOUNTED TZ COMPACT STYLE
90 FLOOR CONSOLE. EFFICIENT COMFORT AND CLEAN AIR ALL YEAR ROUND
92 NANOE™ X. QUALITY AIR FOR LIFE
94 PANASONIC R2 ROTARY COMPRESSOR
96 R22 RENEWAL
98 NEW PANASONIC COMFORT CLOUD
99 CONTROL AND CONNECTIVITY
100 DOMESTIC AIR CONDITIONER RANGE R32
102 WALL MOUNTED HEATCHARGE VZ INVERTER+ • R32 GAS
103 NEW WALL MOUNTED ETHEREA INVERTER+ SILVER / PURE WHITE MATT • R32 GAS
104 WALL MOUNTED TZ COMPACT STYLE INVERTER • R32 GAS
105 NEW WALL MOUNTED RZ COMPACT STYLE INVERTER • R32 GAS
106 WALL MOUNTED FZ TYPE STANDARD INVERTER • R32 GAS
107 NEW WALL MOUNTED UZ TYPE STANDARD INVERTER • R32 GAS
108 NEW WALL MOUNTED PZ TYPE STANDARD INVERTER • R32 GAS
109 NEW WALL MOUNTED DZ TYPE STANDARD INVERTER • R32 GAS
110 WALL MOUNTED PROFESSIONAL INVERTER -20°C • R32 GAS
111 FLOOR CONSOLE TYPE INVERTER+ • R32 GAS
112 4 WAY 60X60 CASSETTE INVERTER • R32 GAS
113 LOW STATIC PRESSURE HIDE AWAY INVERTER • R32 GAS
114 MULTI SPLIT AND FREE MULTI SYSTEM
120 DOMESTIC AIR CONDITIONER RANGE R410A
122 WALL MOUNTED ETHEREA INVERTER+ SILVER / MATT PEARL WHITE • R410A GAS
123 WALL MOUNTED TE COMPACT STYLE INVERTER • R410A GAS
124 WALL MOUNTED FE TYPE STANDARD INVERTER • R410A GAS
125 WALL MOUNTED BE TYPE STANDARD INVERTER • R410A GAS
126 WALL MOUNTED DE TYPE STANDARD INVERTER • R410A GAS
127 WALL MOUNTED PROFESSIONAL INVERTER -20°C • R410A GAS
128 4 WAY 60X60 CASSETTE STANDARD INVERTER • R410A GAS
129 LOW STATIC PRESSURE HIDE AWAY STANDARD INVERTER • R410A GAS
134 FEATURE COMPARISON
136 FEATURES EXPLAINED
137 ACCESSORIES AND CONTROL
138 FREE MULTI R32 COMBINATIONS TABLE
155 MULTI WALL TZ COMBINATIONS TABLE
157 FREE MULTI R410A COMBINATIONS TABLE
172 MULTI WALL RE COMBINATIONS TABLE



## COMMERCIAL


174 PANASONIC COMMERCIAL AIR TO AIR
176 HIGHLIGHTED FEATURES
178 PACi OUTDOOR UNITS ENERGY SAVING CONCEPT
180 PACi ELITE: EXCELLENT SEER AND SCOP VALUES
182 SOLUTIONS FOR 24/7/365 APPLICATIONS
184 GENERATION PACi 90x90 CASSETTE
186 RANGE OF COMMERCIAL UNITS R32
188 WALL MOUNTED PROFESSIONAL INVERTER -20°C • R32 GAS
190 PACi ELITE WALL MOUNTED INVERTER+ • R32 GAS
192 PACi STANDARD WALL MOUNTED INVERTER+ • R32 GAS
194 PACi ELITE AND STANDARD 4 WAY 60x60 CASSETTE INVERTER+ • R32 GAS
196 PACi ELITE 4 WAY 90x90 CASSETTE INVERTER+ • R32 GAS
198 PACi STANDARD 4 WAY 90x90 CASSETTE INVERTER+ • R32 GAS
200 PACi ELITE CEILING INVERTER+ • R32 GAS
202 PACi STANDARD CEILING INVERTER+ • R32 GAS
204 PACi ELITE HIGH STATIC PRESSURE HIDE AWAY INVERTER+ • R32 GAS
206 PACi STANDARD HIGH STATIC PRESSURE HIDE AWAY INVERTER+ • R32 GAS
208 PACi ELITE LOW STATIC PRESSURE HIDE AWAY INVERTER+ • R32 GAS
210 PACi STANDARD LOW STATIC PRESSURE HIDE AWAY INVERTER+ • R32 GAS
212 NEW PANASONIC BIG PACi SERIES R32
213 NEW BIG PACi HIGH STATIC PRESSURE HIDE AWAY 20,00-25,00kW INVERTER+ • R32 GAS
214 PACi SINGLE, TWIN, TRIPLE AND DOUBLE-TWIN SYSTEM
220 NEW PRO-HT TANK SERIES FOR PACi AND ECOI
224 NEW WHE FOR PACi
226 RANGE OF COMMERCIAL UNITS R410A
228 WALL MOUNTED PROFESSIONAL INVERTER -20°C • R410A GAS
230 PACi ELITE WALL MOUNTED INVERTER+ • R410A GAS
232 PACi STANDARD WALL MOUNTED INVERTER+ • R410A GAS
234 PACi ELITE AND STANDARD 4 WAY 60x60 CASSETTE INVERTER+ • R410A GAS
236 PACi ELITE 4 WAY 90x90 CASSETTE INVERTER+ • R410A GAS
238 PACi STANDARD 4 WAY 90x90 CASSETTE INVERTER+ • R410A GAS
240 PACi ELITE CEILING INVERTER+ • R410A GAS
242 PACi STANDARD CEILING INVERTER+ • R410A GAS
244 PACi ELITE HIGH STATIC PRESSURE HIDE AWAY INVERTER+ • R410A GAS
246 PACi STANDARD HIGH STATIC PRESSURE HIDE AWAY INVERTER+ • R410A GAS
248 PACi ELITE LOW STATIC PRESSURE HIDE AWAY INVERTER+ • R410A GAS
250 PACi STANDARD LOW STATIC PRESSURE HIDE AWAY INVERTER+ • R410A GAS
252 NEW BIG PACi HIGH STATIC PRESSURE HIDE AWAY 20,00-25,00kW INVERTER+ • R410A GAS
256 PANASONIC VENTILATION SOLUTIONS
257 ELECTRIC AIR CURTAIN
258 AIR HANDLING UNIT KIT 10-25kW FOR PACi
260 AIR CURTAIN WITH DX COIL, CONNECTED TO THE VRF OR PACi SYSTEMS
260 COMPATIBLE WITH R32 OR R410A OUTDOOR UNITS
262 PANASONIC PACi ELITE CAN COOL ROOMS DOWN TO 8°C
264 R22 RENEWAL FAST, EASY TO INSTALL AND COST EFFECTIVE
268 ACCESSORIES & CONTROL




## VRF SYSTEMS


270 INDUSTRIAL VRF SYSTEMS
272 VRF HIGHLIGHTED FEATURES
274 PANASONIC: DELIVERING TOP ENERGY EFFICIENCIES FOR MANY YEARS
276 PANASONIC VRF: TOP IN COMFORT
278 SOLUTIONS FOR RESTAURANTS
280 YOUR ENTIRE HOTEL WITH SUPERIOR COMFORT, CONTROL AND SAVINGS TOO
282 INNOVATIVE SOLUTIONS FOR RETAIL
284 RANGE OF VRF OUTDOOR UNITS
**286 BEST EFFICIENCY ECOi SERIES FROM PANASONIC**
288 MINI ECOi LE SERIES FOR LIGHT COMMERCIAL & RESIDENTIAL USE
294 ECOi EX THE GAME CHANGER
300 2-PIPE ECOi EX ME2 SERIES
310 3-PIPE ECOi EX MF3 SERIES
**316 ECO G, THE GAS DRIVEN VRF**
320 ECO G 3 SERIES
322 2-PIPE ECO G GE3 SERIES
324 3-PIPE ECO G GF3 SERIES
326 PANASONIC GHP/EHP HYBRID SYSTEM
330 WATER HEAT EXCHANGER FOR HYDRONIC APPLICATIONS
334 LEAK DETECTION AND AUTOMATIC REFRIGERANT PUMP DOWN
335 DESIGN SUPPORT SOFTWARE FOR VRF
336 NEW VRF SYSTEMS INDOOR UNITS
338 ECOi AND ECO G SYSTEMS INDOOR UNITS RANGE
340 4 WAY 90x90 CASSETTE WITH NANOE™ X
341 U2 TYPE 4 WAY 90x90 CASSETTE
342 Y2 TYPE 4 WAY 60x60 CASSETTE
343 L1 TYPE 2 WAY CASSETTE
344 D1 TYPE 1 WAY CASSETTE
345 F2 TYPE VARIABLE STATIC PRESSURE HIDE AWAY
346 M1 TYPE SLIM VARIABLE STATIC PRESSURE HIDE AWAY CONCEALED DUCT
347 E2 TYPE HIGH STATIC PRESSURE HIDE AWAY
348 HEAT RECOVERY WITH DX COIL
349 T2 TYPE CEILING
350 NEW VRF FLOOR CONSOLE
351 NEW G1 TYPE FLOOR CONSOLE
352 K2 TYPE WALL MOUNTED
353 P1 TYPE FLOOR STANDING
354 R1 TYPE CONCEALED FLOOR STANDING
355 HYDROKIT FOR ECOi WATER AT 45°C
356 NEW PRO-HT TANK SERIES FOR PACi AND ECOi
358 AQUAREA AIR
359 FAN COILS
360 PANASONIC VENTILATION SOLUTIONS
362 AHU CONNECTION KIT 16, 28 AND 56kW FOR ECOi AND ECO G
364 AIR CURTAIN WITH DX COIL, CONNECTED TO THE VRF OR PACi SYSTEMS
366 ENERGY RECOVERY VENTILATION
368 HEAT RECOVERY WITH DX COIL
370 DIMENSIONS AND TUBE SIZES OF BRANCHES AND HEADERS
374 ACCESSORIES & CONTROL




## CONTROL AND CONNECTIVITY

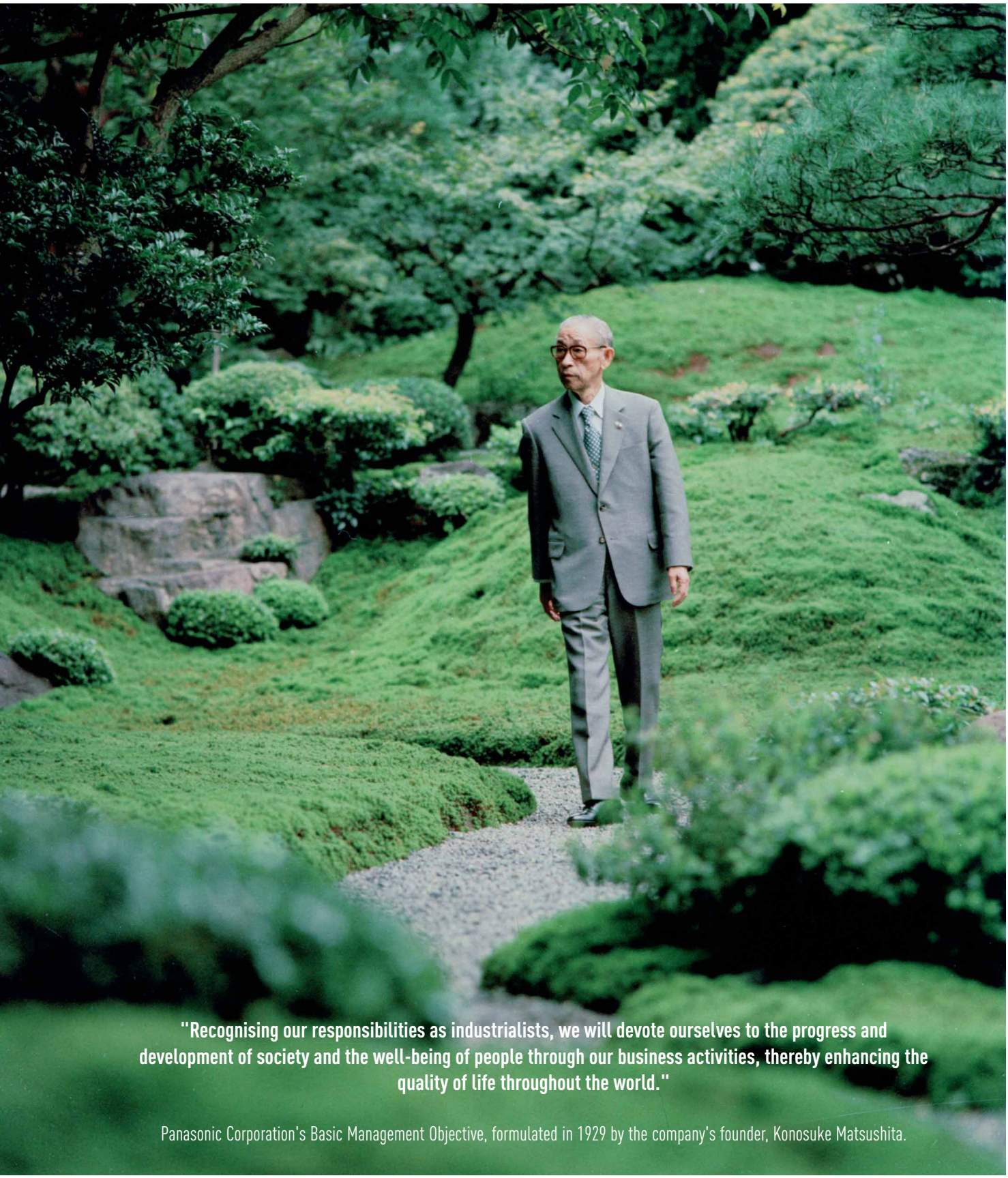

376 CONTROL AND CONNECTIVITY
378 VRF SMART CONNECTIVITY+
384 PANASONIC AC SMART CLOUD
386 NEW COMMERCIAL WLAN ADAPTER
388 NEW ECOi AND ECO G BMS INTERFACE WITH P-LINK
390 REMOTE CONTROLLER WITH ECONAVI
392 DATANAVI
394 ECONAVI SENSOR
396 INTELLIGENT CONTROLLER
398 CONTROL FOR HOTEL APPLICATION
400 CONTROL AND CONNECTIVITY
402 INDIVIDUAL CONTROLLERS
404 CENTRALISED CONTROLLERS
408 PACi AND VRF CONTROL AND CONNECTIVITY
410 ECOi, ECO G AND PACi CONNECTIVITY INDOOR UNITS




## 412 REFRIGERATION

## 420 DIMENSIONS

# A DESIRE TO CREATE THINGS OF VALUE



**"Recognising our responsibilities as industrialists, we will devote ourselves to the progress and development of society and the well-being of people through our business activities, thereby enhancing the quality of life throughout the world."**

Panasonic Corporation's Basic Management Objective, formulated in 1929 by the company's founder, Konosuke Matsushita.

# Panasonic: celebrating two major milestones in 2018.

100th Anniversary

## Panasonic Corporation, 100th anniversary

Look ahead to the "Future," keep taking on challenges. Starting back in 1918, Panasonic has constantly added to its guarantee for innovation, taking tomorrow's technologies and applying them to today's needs.
Always making "people" central to our activities, and thereby focusing on "people's lives," we will continue to provide better living for our customers. This is the unchanging commitment we at Panasonic have had over many years.
Now, we are aiming to expand our contribution to "better living" everywhere. This means that in the variety of spaces where our customers go about their lives, ranging from inside the home, the office, the store, the automobile, and the airplane, as well as in the town, we will provide not only single pieces of hardware, but also total solutions including software and services. We will pursue the concept of "A Better Life, A Better World," meeting the needs of each individual customer.
To that end, we will leverage the strengths that we at Panasonic have long developed in our consumer electronics business, together with the strengths of our business partners who have in-depth expertise in many areas, and we will work to combine these strengths by pursuing "Cross-Value Innovation." In this way, we will create new value. This is the new and challenging task we are now addressing.



**1958**
First room air conditioner launched for domestic installation.

## Panasonic Heating and Cooling, 60th anniversary

Panasonic starts with a desire to create things of value. Sixty years ago, as hard work and dedication results in one innovative product after another, the new company took its first steps towards becoming the electronics giant of today. Heating and Cooling Solutions designed and produced by Panasonic since 1958.

60th Anniversary
heating & cooling solutions



**1971**
Starts production of absorption chillers.



**1973**
Panasonic launches the first highly efficient air-to-water heat pump in Japan.



**1975**
Panasonic becomes the first Japanese air conditioner manufacturer in Europe.



**1985**
Introduces first GHP (gas heat pump) VRF air conditioner.



**1989**
Introduces world's first simultaneous 3-Pipe heating/ cooling VRF System.



**2008**
Etherea new concept: high efficiency and high performances with a great design.



**2010**
New Aquarea. Panasonic introduces Aquarea, an innovative new, low-energy system in Europe.



**2012**
New GHP units. Pansonic's gas-driven VRF Systems are ideal for projects where power restrictions apply.



**2016**
New VRF Systems ECOi EX with extraordinary energy-saving performance.



**Looking ahead**
The first Hybrid System with VRF and GHP in Europe.

# A GLOBALLY TRUSTED AIR CONDITIONING BRAND




Committed to ambitious expansion plans, Panasonic starts production of air conditioning units in Plzen in the Czech Republic.

Panasonic – leading the way in Heating and Cooling.
With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.

With a diverse network of production and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide.
Expanding globally, Panasonic provides superior international products transcending borders.




## 100% Panasonic: we control the process

The company is also a world leader in innovation as it has filed more than 91,539 patents to improve its customers' lives. Moreover, Panasonic is determined to remain at the forefront of its market. In all, the company has produced more than 200 million compressors and its products are manufactured in 294 plants which are located all over the world. You can be assured of the extremely high quality of Panasonic's heat pumps.
This wish to excel has made Panasonic a leading company in heating and turn-key air conditioning solutions. These offer maximum effectiveness, comply with all environmental standards and meet the most avant-garde construction requirements of our time.

## Constantly Improving

At Panasonic, we know that the best is always yet to come. This is why our air conditioning and heat pump solutions are constantly upgraded. Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, and has the ambition to not only meet but also exceed their requirements.
Our Technology & Design teams anticipate the needs of tomorrow. We look to produce smaller, quieter, efficient solutions - with better technological features – that can reduce energy consumption while providing suitable temperature conditions for the user.

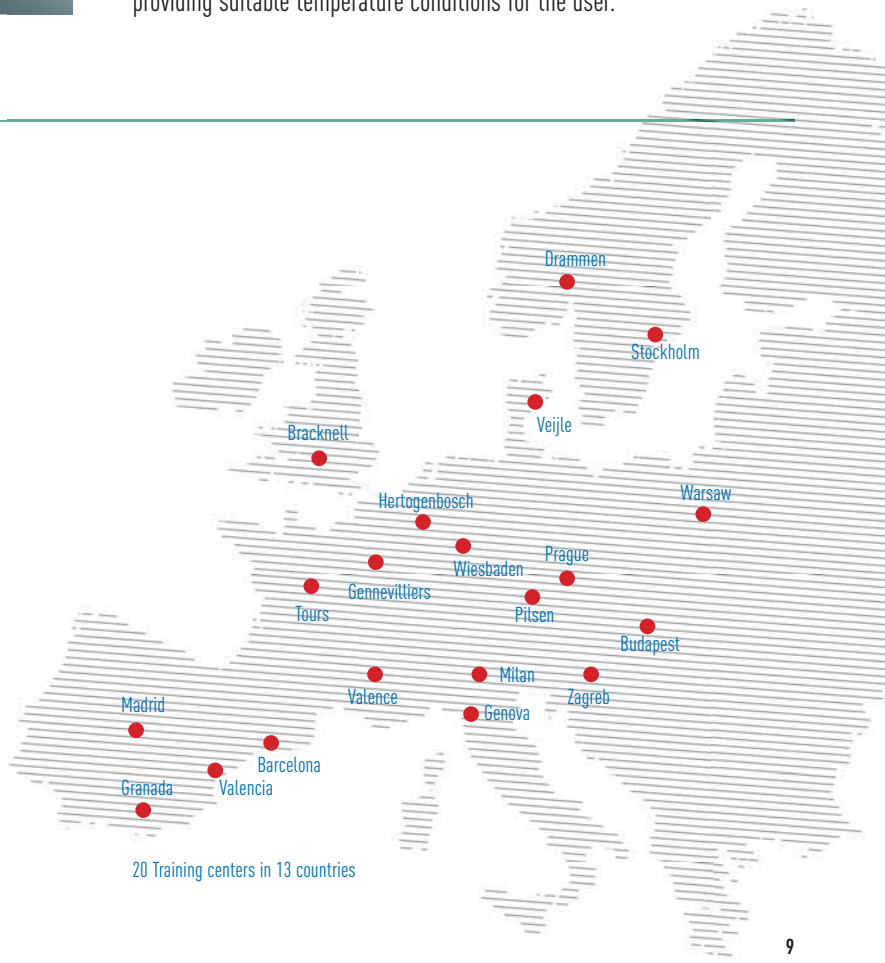
## 40 years of experienced organization in Europe

**The partner for all Europe.**
- Full European coverage and integrated organization
- One voice for European Agreements
- Availability and delivery anywhere in Europe
- Specification team to support project design throughout Europe
- European Service Network

**Trained professionals.**
- 20 Training centres in 13 countries
- More than 5000 professionals rained every year. Innovation and manufacture in Europe

**R&D Department designs solutions for different European needs.**
- New factory set up in Czech Republic
- Design software made in Europe for Europe

**More than Cooling, Heating and Refrigeration Solutions.**
- Security, communication solutions, advanced digital signage technology, access control solutions, displays...



20 Training centers in 13 countries

# 100% PANASONIC, THE DNA OF JAPANESE CRAFTSMANSHIP

**JAPAN QUALITY**



Applying advanced technologies that truly make life better, we live by an unparalleled commitment to product quality.
Panasonic is building on the Japanese tradition of uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.

## At Panasonic, we believe that the best air conditioner is one that works quietly and effectively in the background whilst minimising its impact on the environment

People who use our products can look forward to long years of high-quality performance without the need for constant service. As part of our rigorous design and development process, Panasonic air conditioners undergo a variety of stringent tests to ensure their effectiveness and long-term reliability. Tests for durability, waterproofing, shock resistance, and noise are conducted on component parts or on the finished products themselves.
As a result of all of these time consuming efforts, Panasonic air conditioners meet industrial standards and regulations in every country where they are sold.

## International Standard Quality

To uphold the company's reputation around the world, Panasonic strives continuously to offer quality with minimized environmental impact.





**Reliable parts that meet or exceed industrial standards.**
In every country where they are sold, Panasonic air conditioners comply with all required industrial standards and regulations. In addition, Panasonic conducts stringent testing to ensure the reliability of parts and materials. The strength of the resin material used in a propeller fan is confirmed by a tension test.



**Compliance with RoHS / REACH substance restrictions.**
Panasonic products and used materials strictly comply with chemical substance restrictions as defined by RoHS or REACH. During the development and production of parts, stringent inspections are conducted on over 100 materials to ensure that no hazardous substances are included.



**Sophisticated production process.**
Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

## Durability

At Panasonic we know the importance of a long service life with minimal maintenance. That's why we subject our air conditioners to a wide range of stringent durability tests.



**Long-term durability test.**
To ensure durability and stable operation for many years, we conduct a long-term continuous operation test under conditions that are much more severe than actual operating conditions.



**Compressor reliability test.**
After the continuous operation test, we remove the compressor from a selected outdoor unit, disassemble it, and examine the internal mechanisms and parts for potential failure. This helps ensure reliable long-term performance under harsh conditions.





**Waterproofing test.**
The unit - which is subject to rain and wind - complies with IPX4 waterproof specifications. Contact sections on printed circuit boards are resin-potted to prevent adverse effects caused by exposure to water (an unlikely occurrence).

# PANASONIC: ECO & SMART IDEAS FOR A SUSTAINABLE LIFESTYLE



A better life, a better world.
Panasonic is creating a safe and
secure society with clean energy.







www.future-living-berlin.com

FUTURE LIVING®
BERLIN

## Smart City Quarter Berlin

**A European Lighthouse Project for Smart Home & Connected Life. Future Living® Berlin.**

The building project Future Living® Berlin is a future model for interconnected urban district. Seit 2013 GSW Sigmaringen and Unternehmensgruppe Krebs are developing a model for future living – based on their long term expertise in real estate business and in cooperation with leading international technology companies. In spring 2019 first residents will move into the new quarter.

Future Living® Berlin is making use of the increasing possibility to interconnect products and services. Based on this chance smart and intelligent solutions for future living as well for the single apartments as for the quarter are developed. These solutions are enabling residents to use online services in their intelligent housing environment. Based on these opportunities a concept of living for daily routine is developed offering residents comfort, security and time saving.

A special enhancement of Future Living® Berlin is the pre-configuration for different apartments by experts that enable residents to move into a "ready to go" apartment and be directly supported in their daily routines in an intelligent way. By using one central app or native language single apartments can be steered, adopted and individually expanded by future smart products.

Cross-linkage of products and technologies provides all residents with a simple access for an exclusive community care sharing in the residential quarter which is, of course, based on e-mobility and part of an holistic energy concept containing photo-voltaic systems and battery storage. Cooperating with leading technology companies as project partners a continuous and technological progression is guaranteed in the future. Including residents and learning from their usage data participating partner a ready and enabled to improve the offered solutions pointedly further more.

Beside Future Living® Homes there is Future Living® Dialog offering extensive information and use cases for the general public. The project with it's innovative aims is also representing for sustainability and social solutions. Affordable rental and ancillary rental costs result in apartments available for many target groups.

Future Living® Berlin is aiming for conceptional and architectural answers for some of the big challenges of our society as demographical changes, energy turnaround and changing mobility manners. With it's comprehensive solution approach it is unique in Europe.

Demographic change, energy revolution and mobility change. We offer solutions for the challenges of our time.

# PROJECTS & CASE STUDIES OF PANASONIC HEATING AND COOLING SOLUTIONS



New Hotel Monument 5*GL is located in an 1896 palace.
Barcelona, Spain. ECOi and E-Control

## Panasonic, a partner with the knowledge and experience to achieve your objectives and green needs.

### Integrated technology that permits better work, easy installation, high efficiency performance, and energy savings

Our main targets are the distributed services and B2B-integrated solutions.
Panasonic provides a single point of contact for the design and maintenance of your system, making things easy for you.
Given our experience in processes, technologies and complex business models, we can offer you effective solutions that reduce costs, whilst also being efficient, user-friendly, reliable and innovative. Another advantage we offer to our clients is a support service for systems integration projects, which we provide through our wide range of services and solutions.
As a global company, we have at our disposal the financial, logistical and technical resources to develop complex and wide-ranging solutions, both at country and international level by implementing them both on-time and on-budget.



Passive house in Tychowo near Stargard Szczecinski, Poland. **Aquarea**



The new Hotel Vincci Gala with efficiency class A, up to 70% save energy. Barcelona, Spain. **ECOi - ECO G**



New IKEA "Click and Collect" store in city centre. Birmingham, UK. **ECOi - ECO G**



21 of the 5-6 bedroom luxury homes in Straffan Co.Kildare, Ireland. **Aquarea**



Andalucia Technology Park. Offices of high energetic efficiency. Spain. **ECOi**



The latest glamorous Burger & Lobster restaurant in Bath. UK. **Aquarea**



Madrid's new hotel Only You Atocha. The hotel has 206 rooms distributed over seven floors. **ECO G**



Lo + Fit Galapagar Gym. Madrid, Spain. VRF, **PACi, AHU**



Marina Village Greystones. 205 apartments and 153 houses. Ireland. **Aquarea**



The Hat, a modern hostel in Madrid. Spain. **ECO G**



Zalando's solution for its warehouse office conversion at Grand Canal Quay, Dublin. **ECOi**



Lock Building, offices for media giant Viacom. Camden, London, UK. **ECOi**

**To find out more: www.aircon.panasonic.eu**

# PRO CLUB. THE PROFESSIONAL WEBSITE OF PANASONIC




Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever you are, from your computer or smart phone!

- Print catalogues with your logo and your address
- Download the latest Aquarea designer to define your system and select the good Aquarea Heat pump.
- Calculate the specs of the Aquarea Air fan coil based on the parameters of your system
- Get Documents of conformity and all other documents you may need
- Download all the service manuals, end user manuals and installation manuals
- Know what to do with error codes
- Find out about the latest news first
- Register for training

**Highlighted Features.**

- Extensive library of resources
- Tools & Apps for end users. Check availability in your country:
  - My Home: sizing wizard for domestic and Air to Water range
  - My Project: Contact form to Panasonic team
  - iFinder: Lists of installers displayed by postcode
- Special offers & promotions
- Training PRO Academy
- Catalogues (Commercial documentation)
- Marketing (Images in high resolution, advertisements, deco guidelines)
- Tools (Professional software, sizing tools...)
- Installers customize leaflets in PDF format with their logo & contact details
- Energy label generator. Download energy labels of any device in PDF format
- Heating calculator
- Noise calculator for outdoor unit
- Aquarea Radiator calculator
- Error Code Search by error code or unit ref. Compatible with smartphone and tablet computer
- Revit / CAD Images / Spec texts
- Access to Pananet, online library of technical documentation
- Download Documents of Conformity and other Certifications
- Commissioning online

**Panasonic PRO Club is fully compatible with tablet computer and smartphone.**

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.



Easy download Panasonic service documentation and brochures



Customise leaflets with your logo & contact details. Save and print the PDF



Energy label generator. Download Energy labels of any device in PDF format



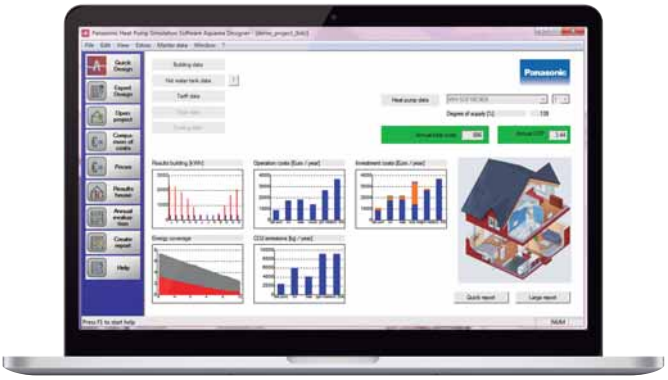
Error Code on your smartphone and your PC: Search by error code or model reference. Online version + downloadable version for offline use

# AQUAREA DESIGNER

This program allows HVAC designers, installers and distributors to identify the correct heat pump for a particular application from Panasonic's Aquarea range, calculate the savings compared to other heat sources and very quickly calculate $CO_2$ emissions.
Using Panasonic's Aquarea Designer, projects can be developed simply and easily, by either using the Quick Design or Expert Design options. Each allows the user to build up the project data in a simple step-by-step process and choose to output reports (in either Quick or Large formats) as HTML files or as print-outs. To create these useful reports, project data is input, including:

- Heated area
- Heating requirement
- Heating flow and return temperatures
- Climate data (from a simple drop-down menu) including outdoor temperature
- Type of hot water tank, storage capacity and hot water target temperature

**Panasonic provides bespoke software helping system designers, installers and dealers to very quickly design and size systems, create wiring diagrams and issue bills of quantities at the push of a button.**



## Aquarea Designer also means saving

Aquarea Designer will calculate the project's energy costs in terms of hot water, heating and pumping. It will show the equipment running times and calculate the COP (coefficient of performance). It then allows the designer to show clients a comparison with other equipment options such as heating by conventional gas-fired boilers, oil systems, wood, standard electric heating and electric night storage heaters. This compares running costs, initial investment costs and maintenance costs. The comparison can also be made for $CO_2$ emissions and savings.

## The Panasonic PRO Academy

Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive Training Programme. The Panasonic Pro-Academy encompasses the traditional hands-on approach to teaching.
New training courses cover three levels. Design, installation, and commissioning & trouble-shooting. Training courses include:

- Domestic applications Air to Air
- Aquarea air source heat pumps
- VRF ECOi

The courses are offered on site at Panasonic's premises across Europe. The Training Centres display Panasonic's latest product range and give delegates an opportunity to get a hands-on experience with the latest controllers, indoor and outdoor units from the VRF ECOi, Etherea, GHP and Aquarea ranges.








# WELCOME TO AQUAREA AIR TO WATER HEAT PUMP



Aquarea's Air to Water Heat Pump for residential and commercial applications. Offering capacities from 3kW all the way through to 16kW, the Aquarea Heat Pump Range is the widest on the market, ensuring a system is available, whatever your heating and cooling needs. Suitable for new build and refurbishment projects, the solutions are cost-effective with minimised environmental impact.

# HIGHLIGHTED FEATURES




GOOD
DESIGN
AWARD
2017

The Good Design Award is among the most prestigious awards for product design excellence. Winning this award has underscored the outstanding performance and energy savings of the Panasonic indoor units All in One and Bi-bloc. In addition, these units' clean, tidy design and functionality make the Aquarea line the ideal system for household applications.

Panasonic's Aquarea range of Heat Pumps deliver major energy savings thanks to its incredible efficiency even at -20°C. The Panasonic Aquarea Heat Pumps are designed and produced by Panasonic and not by other companies.

AQUAREA

The Aquarea Heat Pump is a system that generates the perfect temperature and produces hot water, in an easy, cheap and environmentally conscious way, by transferring heat instead of generating it. It is among the Technologies listed on the International Energy Agency (IEA) Blue Map, whose goal is to reduce $CO_2$ emissions to half the levels emitted in 2005, by the year 2050.
Aquarea is part of a new generation of heating solutions that use a renewable, free energy source (the air) to heat or cool the home and to produce hot water.

## Energy saving




**Refrigerant gas R32**
Our Heat Pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).




**Better efficiency & Value for medium temperature applications.**
Energy efficiency class up to A++ in a scale from A++ to G.




**Better efficiency & Value for low temperature applications.**
Energy efficiency class up to A++ in a scale from A++ to G.




**Better efficiency & Value for Domestic Hot Water.**
Energy efficiency class up to A in a scale from A to G.




**Inverter Plus.**
Panasonic Inverter Plus compressors are designed to achieve outstanding level of performance.




**A class water pump.**
Aquarea are built-in with A class energy efficiency water pump. High efficiency circulating the water in the heating installation.

## High Performance




**Aquarea High Performance for low consumption houses.**
From 3 to 16kW. For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution. *COP of 5,33 for 3kW All in One.




**Aquarea T-CAP for extremely low temperatures.**
From 9 to 16kW. If the most important aspect is to maintain nominal heating capacities even at temperatures as low as -7°C or -20°C, select the Aquarea T-CAP.




**Aquarea HT ideal for retrofit. From 9 to 12kW.**
For a house with traditional high-temperature radiators, the Aquarea HT solution is the most appropriate, can work in output water temperatures of 65°C even at outdoor temperatures as low as -20°C.




**DHW.**
With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.



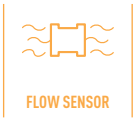

**Down to -20°C in heating mode.**
The Heat Pumps work in Heat Pump mode with an outdoor temperature is as low as -20°C.




**Water filter with magnet.**
Easy access & fast clip technology for J Generation. Water filter only for H Generation.




**Water stop valve.**
Included on J and H Generation.




**Water flow sensor.**
Included on J and H Generation.




**5 years compressor warranty.**
We guarantee the outdoor unit compressors in the entire range for five years.

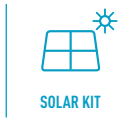



SG Ready: Thanks to Aquarea HPM, Aquarea range (Bi-bloc and Mono-bloc) is holding the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Wärmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.
MCS Certificate number: MCS HP0086.*

## High connectivity




**Renovation.**
Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.




**Solar kit.**
For even greater efficiency, our Aquarea Heat Pumps can be connected to photovoltaic solar panels with an optional kit.




**Advanced control.**
Remote controller with full dotted 3,5'' wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on J and H Generation.




**Internet control.**
A next generation system providing a user-friendly remote controller of air conditioning or Heat Pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.




**Connectivity.**
The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic Heat Pump to your home or building management system.

**Warning and Water Quality Directive and Groundwater:**
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* Not all products certified. As the certification process is on-going and the list of certified products constantly changing, please check for latest details on the official websites.

# HOW DO YOU GET HEATING AND DOMESTIC HOT WATER FROM AIR?



## Aquarea Air to Water Heat Pump, outstanding seasonal efficiency. At the forefront of energy innovation, Aquarea is resolutely positioned as a "green" heating and air conditioning solution.

### Introducing the Panasonic Aquarea – Air Source Heat Pump

An Aquarea air source Heat Pump circulates fresh air and passes it over refrigerant-filled coils (like a refrigerator). The captured heat is automatically transferred to water, which is then ready for use in your heating system and for supplying all of your domestic hot water needs. Panasonic's latest technology offers you a sustainable alternative to oil, LPG and electric heating systems.

### "Green" High-efficiency heating with Panasonic's Air to Water Heat Pump Systems

Panasonic's Aquarea Heat Pump provides savings of up to 80% on heating expenses compared to electrical heaters. For example, the Aquarea 3kW system has a COP of 5,33 (KIT-ADC03JE5). This is 5,33 more than a conventional electrical heating system which has a maximum COP of 1. This is equivalent to an 80%* saving. Consumption can be further reduced by connecting photovoltaic solar panels to the Aquarea system.

### Why Air Source Heat Pumps?

- Heating, cooling and domestic hot water produced with a single system
- Best in terms of efficiency: even at extreme outdoor temperatures
- Environmentally advanced: can be connected to solar panels
- Technology that adapts to each home: extreme low temp, high temperature, whatever the climate
- Wide range of solutions: floor heating, radiators and fan coils
- Reduced heating bills and maintenance costs
- Reduce your carbon footprint
- Simple to integrate into existing heating systems
- Energy efficient alternative to oil, LPG and electric systems
- Ideal for properties without access to mains gas
- Externally positioned saving valuable internal living space

Aquarea Air to Water Heat Pump: An innovative low energy solution, designed to create great comfort at home even at extreme outdoor temperatures. Providing heat to radiators, underfloor heating, Fan Coils as well as producing domestic hot water.

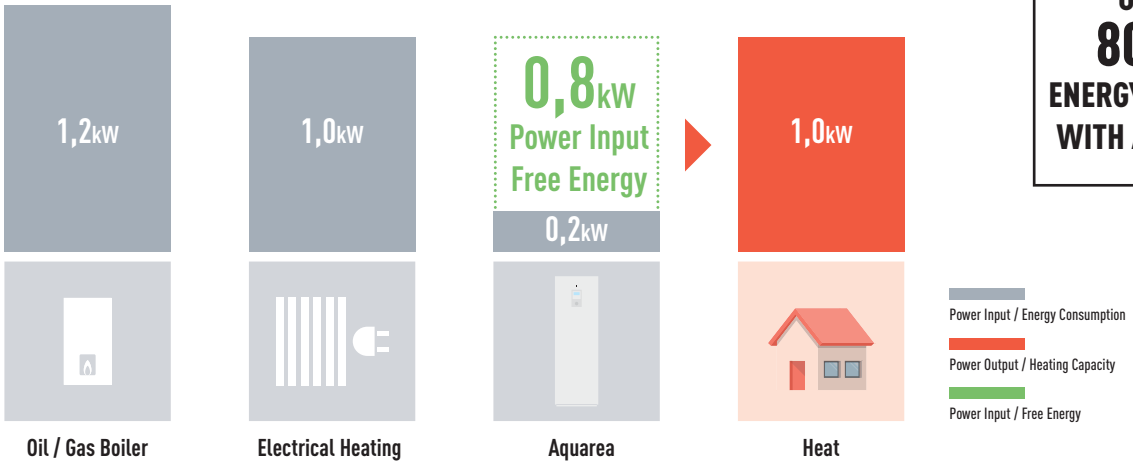
### Heat Pump: Up to 80% of required heat energy taken from ambient air

Based on Air to Water heat pump technology, Aquarea is highly efficient. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home and domestic hot water - it can even cool your home as required. Compared to other technologies, up to 80% of the heat energy required is taken from the ambient air - even in extremely low temperatures.



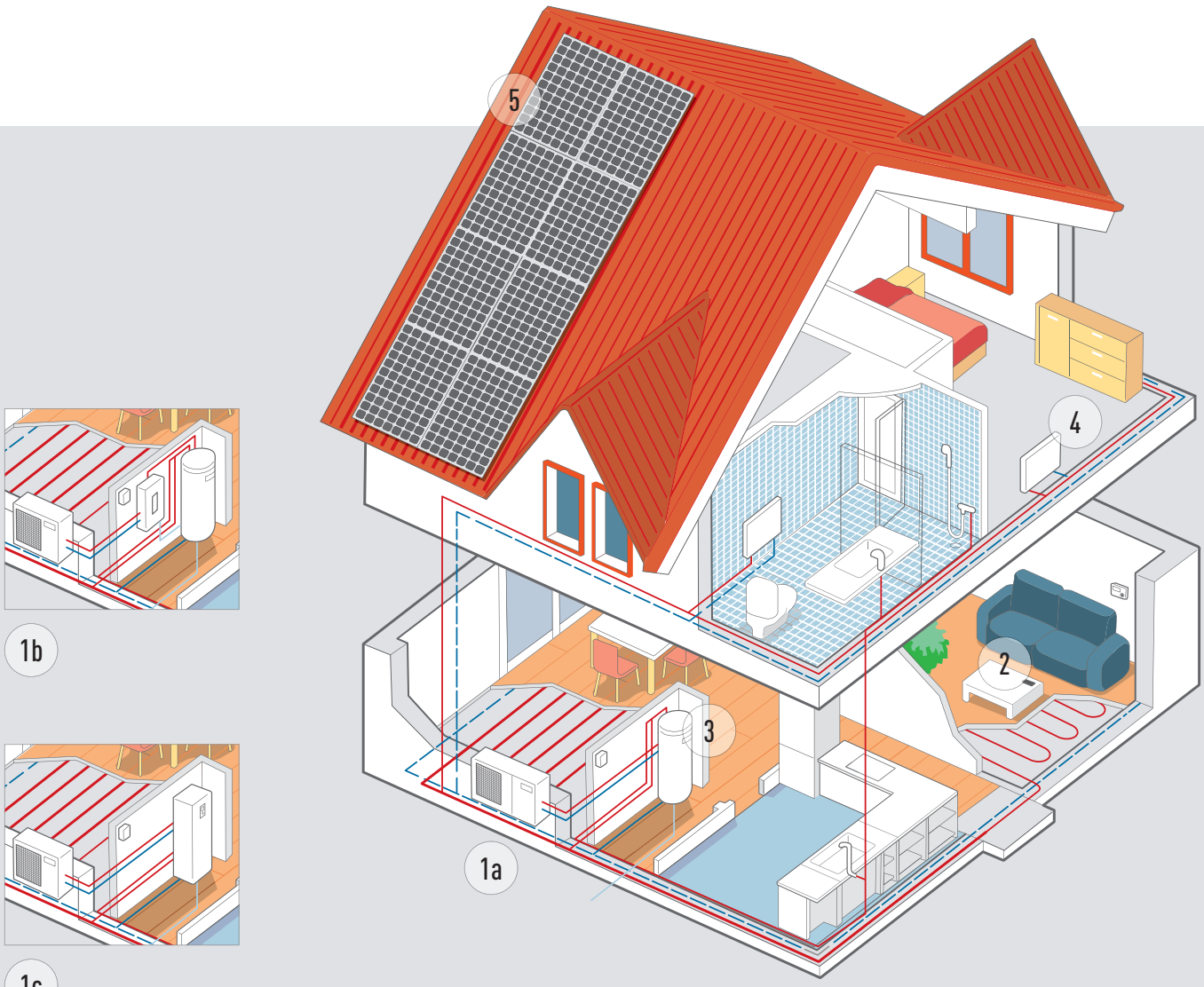
**UP TO 80%* ENERGY SAVINGS WITH AQUAREA**

**Energy consumption comparison.**




* Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions : Water input temperature: 30°C Water output temperature: 35°C.

# AQUAREA HEAT PUMP LINE-UP




1a



Mono-bloc system.

1b



Bi-bloc system.

1c



All in One system.

2



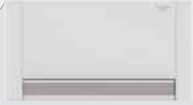
Control through smart phone, tablet or computer (optional).

3



Super High Efficiency cylinder (optional).

4



High efficient radiators for heating and cooling (optional).

4



New versatile and efficient fan coil (optional).

5



Heat Pump + HIT Photovoltaic solar panel (optional).

Panasonic Aquarea offers you solutions, helping to make the home more efficient and the installation cheaper and easier.

**Aquarea High Performance. For new installations and low consumption homes.**
Outstanding efficiency and energy savings with minimised $CO_2$ emissions and minimum space. Improved performance with COP's up to 5,33.

**Aquarea T-CAP. For extremely low temperatures, refurbishment and innovation.**
Ideal to ensure that the heating capacity is maintained even at very low temperatures. This line-up is able to maintain the Heat Pump output capacity until -20°C outdoor temperature without the help of an electrical booster heater.

**Aquarea HT. For a house with old high-temperature radiators.**
Ideal for retrofit: green energy source works with existing radiators. Aquarea HT Solution is the most appropriate, provides output water temperatures of 65°C even at outdoor temperatures as low as -15°C.

**DHW Stand Alone.**
- A+ Highly efficient wall mounted Domestic Hot Water Heat Pump
- Provides reduced power consumption by 75% compared with traditional electric water heater

| Aquarea High Performance | Aquarea T-CAP | Aquarea HT | DHW Stand Alone |
|---|---|---|---|
|  Mono-bloc Bi-bloc All in One |  Mono-bloc Bi-bloc All in One |  Mono-bloc Bi-bloc |  |
| Heating - Cooling - DHW | Heating - Cooling - DHW | Heating - DHW | Only DHW |
| Single Phase from 3 to 16kW<br>Three Phase from 9 to 16kW | Single Phase from 9 to 12kW<br>Three Phase from 9 to 16kW | Single Phase from 9 to 12kW<br>Three Phase from 9 to 12kW | 100 and 150L |
| **Connectable to** | | | |
| Radiators - Fan Coil - Underfloor heating - DHW | Radiators - Fan Coil - Underfloor heating - DHW | Traditional high-temperature radiators - DHW | Domestic Hot Water |
| **Application** | | | |
| Normal installation | For extreme cold ambient | Retrofit for old radiators | Only DHW |
| **Energy efficiency** | | | |
| A++ / A++<br>Heating 35°C / 55°C | A++ / A++<br>Heating 35°C / 55°C | A++ / A++<br>Heating 35°C / 55°C | A+<br>DHW 50 ~ 62°C |
| **Outdoor ambient temperature limit. Operation** | | | |
| -20°C | -28°C | -20°C | -5°C |
| **Outdoor ambient temperature limit. Constant capacity (35°C)** | | | |
| -7°C (not for all units) | -20°C [1] | -15°C | – |
| **Supply temperature for heating. Max. / Heat pump only** | | | |
| 75°C [2] / 55°C [3] (or 60°C for Aquarea J Generation) | 75°C [2] / 60°C [3] | 75°C [2] / 65°C | – |
| **Control and connectivity** | | | |
| Smart Grid Ready [4]<br>Wireless LAN Ready | Smart Grid Ready [4]<br>Wireless LAN Ready | Smart Grid Ready [4]<br>Wireless LAN Ready | – |
| **Range** | | | |
| Bi-bloc from 3 to 16kW<br>Mono-bloc from 5 to 16kW<br>All in One from 3 to 16kW (185L) | Bi-bloc from 9 to 16kW<br>Mono-bloc from 9 to 16kW<br>All in One from 9 to 16kW (185L) | Bi-bloc from 9 to 12kW<br>Mono-bloc from 9 to 12kW | 100 and 150L |

All data in this chart is applicable in most of models in each line up, check product specs to confirm. 1) 9 and 12kW. 2) DHW maximum temperature with heater. 3) In case of outdoor temperature over -10°C. 4) H Generation with CZ-NS4P, F and G Generation with Heat Pump Manager. * DHW Stand Alone is produced by S.A.T.E.

# NEW R32 AQUAREA J GENERATION

R32
NEW REFRIGERANT GAS
Panasonic



## Much more than just R32 Aquarea J Generation Available in 3/5/7/9kW All in One and Bi-bloc

**Keeping Aquarea essence.**
- Free space on the top of All in One
- A+++ Ready
- Service Cloud by accessory

### What is new?

**1. Higher efficiency.**
- SCOP up to + 5% vs H Generation
- DHW COP up to 3,30 (for 3 and 5kW models)

**2. More flexibility in design.**
- 60°C water temperature
- Piping length improved: 7/9kW: 50/30m - 3/5kW: 25/20m
- Chiller function cooling down to 10°C outdoor temperature

**3. New smart functions**
- SG ready / PV function for cooling
- Utility remote bivalent control: By dry contacts*
- Stop external device when defrost by Dry contact (for Fan Coil fan stop)*

* Can not be used at same time.

**4. More comfort**
- Better comfort in extreme low temperature: Heating curve can be set up down to -20°C
- Efficient or comfort mode for DHW: Part load for better efficiency or full load to reduce the heat up time
- DHW two sensor position selectable for All in One: Efficient position (best DHW COP) or bigger volume of hot water

Other improvements: More silent outdoor units / Magnet filter for water cycle.






## R32 Refrigerant Gas: A 'small' change that changes everything

**Panasonic recommends R32 because it is comparably environmentally friendly. Compared to R22 and R410A, R32 has a very low potential impact on the depletion of ozone layer and global warming.**

In line with the European Countries who are concerned in protecting and maintaining the environment by participating in the Montreal Protocol to protect the Ozone Layer and prevent Global Warming, Panasonic is leading the switch to R32.

**1. Installation innovation.**
- Extremely easy to install, practically the same as R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with R32)
- This refrigerant is 100% pure, which makes it easier to recycle and reuse

**2. Environmental innovation.**
- Zero impact on the ozone layer
- 75% less impact on global warming

**3. Economic and energy consumption innovation.**
- Lower cost and greater savings
- Higher energy efficiency than R410A

# AQUAREA H GENERATION A+++*

**(Applicable from 26 September 2019).**



The beauty of comfort. The H Generation is being introduced from 3 to 16kW. The small capacities are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3kW).

## Better Efficiency & Value A++/A++

- A++ for medium temperature applications (radiators. ErP 55°C)
- A++ for low temperature applications (floor heating. ErP 35°C)
- 3 & 5 kW models will meet the energy efficiency class A+++ as applicable from 26 September 2019

## Aquarea, a generation of energy efficient heating and hot water

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high output capacity and efficiency even at -7°C and -15°C. The Aquarea's software can be set for the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -28°C (T-CAP only) lower limit. The compact design of the outdoor unit makes installation very easy.



**Aquarea H Generation.**
Bi-bloc or All in One system

## All in One, compact and easy to install

Space-saving solution ideal for installations with restricted space. In addition, Panasonic has developed bivalent and cascade systems that give the user control of two heating zones.
The Aquarea All in One belongs to the new generation of Panasonic heat pumps for heating, cooling and providing domestic hot water in the home. Aquarea T-CAP is one of the newest heat pumps on the market, maintaining nominal heating capacities even at temperatures as low as -20°C*. This ensures the best possible seasonal energy efficiency ratio. The heat pumps are tested at an outdoor temperature of -28°C to ensure stable operation.

Improved square design with white goods finish. Modern remote controller can be installed up to 50m from the indoor unit.

### Installer Friendly:

- Electrical connections is now located on front side
- Easy access to parts and easy to install by having all pipings in a row
- Remote controller with full dotted wide screen and new functions
- Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating pump (need optional PCB: CZ-NS4P)

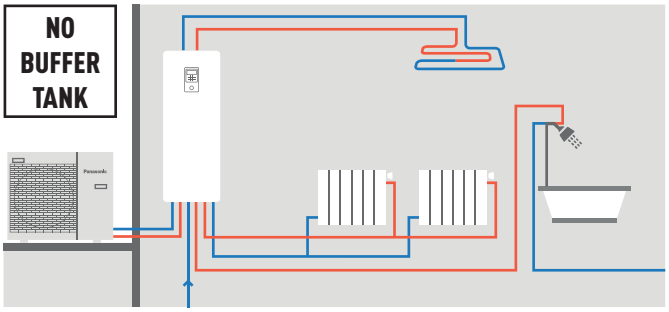
### Compact and free space. More value in 1 compact space:

- Line strainer (easy access & fast clip technology)
- Isolation valves
- Electronic flow sensor
- 3 way valve ready (optional CZ-NV1 in internal space)

### All in One with 2 zones control.

- 2 heating circuits, with 2 different water temperatures
- 2 water pumps and 2 water filters
- Floor heating water control with mixing valve

**2 Zones kit included with control of 2 water temperatures (underfloor with water at 35°C and radiators with water at 45°C).**

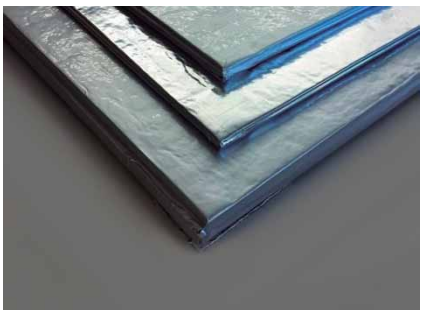



## All in One with Vacuum Insulation Panel (VIP)

Panasonic U-Vacua™ is a high performance vacuum insulation panel (VIP) with very low thermal conductivity that performs about 20 times better than standard urethane foam.

### Features:

- Highly versatile (R-60 per inch)
- High insulation performance for energy savings
- High heat resistance core material
- High recyclability
- Environmentally friendly: made with 75% recycled glass
- Ideal for spacious yet compact appliances



# AQUAREA HIGH PERFORMANCE



For new installations and low consumption homes.
Outstanding efficiency and energy savings with minimised $CO_2$ emissions and minimum space.

## High Performance helps you to meet strict building requirements and reduce building costs

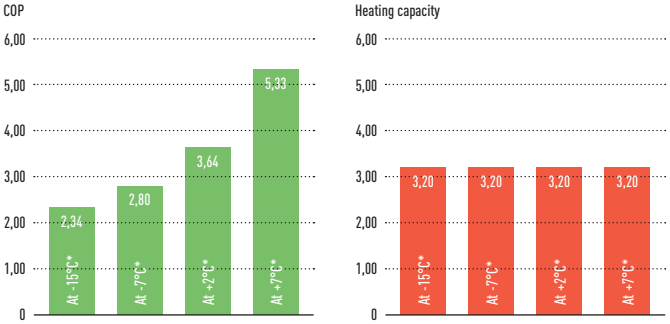
The heating and production of domestic hot water have a very important impact on the energy consumption of a house. Efficient Panasonic Heat Pumps can help to significantly reduce the energy consumption of the house.

## Key points of the line-up

- Improved performance with COP's up to 5,33
- Reduced energy consumption through our circulating pump with energy efficiency class "A"
- Remote controller functions added: Auto mode, holiday mode, power consumption display

Panasonic has designed the Aquarea Bi-bloc and Mono-bloc Heat Pumps for homes which have high performance requirements. Whatever the weather, Aquarea can work even at -20°C! The Aquarea is easy to install on new or existing installations, in all types of properties.

## High Performance Pumps are also Highly Efficient (take the KIT-ADC03JE5 for example)

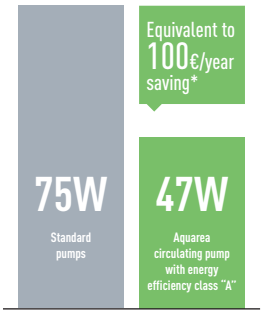



* Heating water at 35°C.

## Standard circulating pumps vs our circulating pump with energy efficiency class "A"

Comparison of energy consumption of circulation pumps. Circulating pump with energy efficiency class "A" with Dynamic flow control for 5kW Mono-bloc.

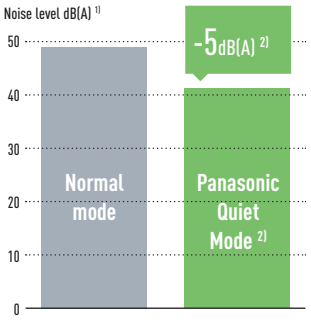
* Based on German market: Assuming Standard pump may vary depending on consumption and energy cost.




## Panasonic created a night mode to reduce the noise when it's needed

Special attention has been given to noise levels

1) Sound pressure measured at 1m from the outdoor unit and at 1,5m height.
2) At standard condition working at heating capacity at +7°C (heating water at 35°C) for two fans outdoor units. For one fan outdoor units, night mode reduction is 3dB(A).






# AQUAREA T-CAP



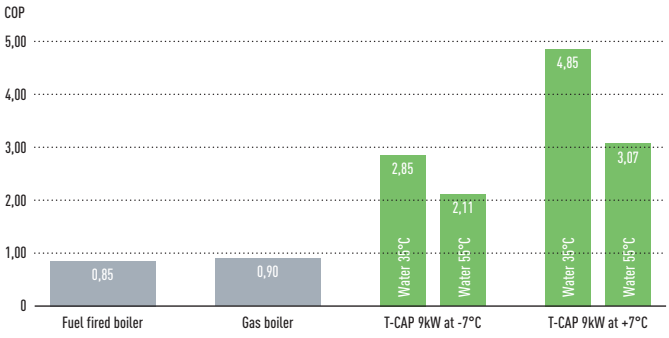
## For retrofit and new builds, install the T-CAP heat pump where the kW output capacity is demanding.

### Ensure the heating capacity is maintained even at low temperatures

The whole T-CAP line-up can replace old gas or oil boilers, and in a new application with underfloor heating, radiators or even fan-coil heaters, the whole T-CAP line-up is an ideal replacement for old gas/oil boilers. All Aquarea heat pumps can also be connected to a solar thermal or PV system in order to increase efficiency and minimise the impact on the ecosystem.

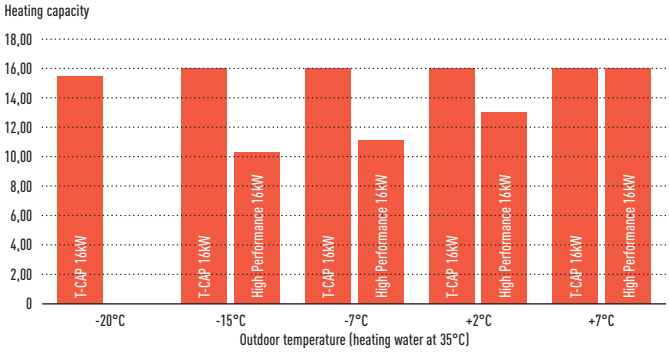
### Higher efficiency compared to other heating systems

Panasonic Heat Pumps have a maximum COP of 4,85 at +7°C which makes them much more efficient than others heating systems.




### More Energy saving

T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature.




### Key points of the line-up

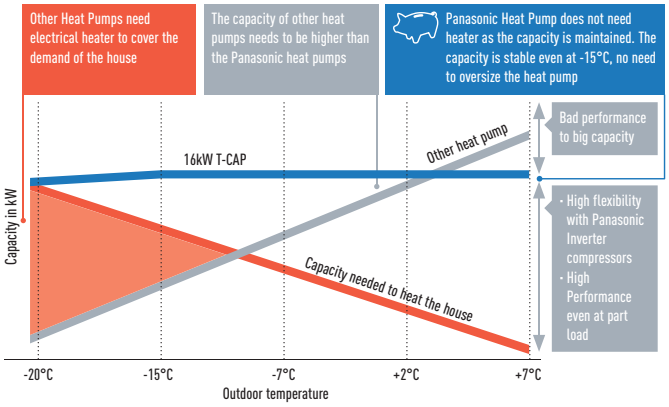
- Ability to maintain the heat pump kW [1] output capacity until -20°C outdoor temperature without the help of an electrical booster heater
- High heating capacity even at low ambient temperatures
- Additional functions: Auto and holiday mode, boost, drying concrete and power consumption display
- Backup heater capacity can be selected depending on the model (3/6/9kW)
- Cooling mode activation possible via software [2]

1) At 35°C flow. 2) This activation can only be done by service partner or installer.

### With a Panasonic heat pump, there is no need to oversize in order to reach the required capacity at low temperatures

- Panasonic's unique software and inverter technology for low consumption houses, allows the heat pump to produce heating water at 35°C. When only a little heating is required due to warmer outside air temperature
- All Aquarea heat pump's have a 10L expansion vessel fitted internally
- Aquarea heat pump's has an inverter compressor which can regulate the output capacity depending on demand
- Twin dice system included within the system (Twin fan outdoor unit)
- 3/6/9kW electrical heater is included in the heat pump (depending on unit)
- Panasonic heat pumps can work in outdoor temperatures as low as -28°C and guarantee the capacity without backup heating down to -20°C [1]
- Panasonic heat pumps are very quiet and have a noise reduction setting for night mode. See noise calculator on www.panasonicproclub.com

1) 35°C flow temperature.




### New Aquarea Super Quiet T-CAP Bi-bloc

The special outdoor chassis notably reduces operation sound by up to 11dB (when setting at quiet mode level 2* WH-UQ12HE8).

* Heating capacity may drop.



# AQUAREA HT



Aquarea HT can produce a flow temperature of 65°C making it the ideal high efficiency replacement for oil/gas boilers connected to high temperature radiators.

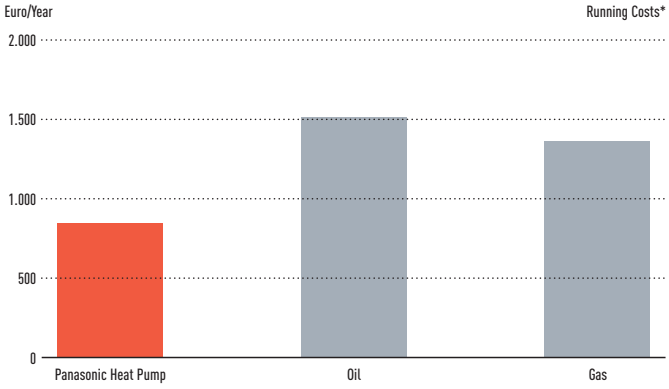
## Green energy source works with existing radiators

The Aquarea HT (9kW & 12kW) allows you to replace your traditional heating source (such as oil or gas) while keeping the existing old style radiators for minimum disruption to the home.

## Aquarea HT: High savings and low $CO_2$

The benefit of replacing a traditional heating systems with Aquarea HT are clear: Reduced $CO_2$ emissions, future proofing running costs. Panasonic Heat Pumps are much more efficient than fossil fueled boilers and help you to reach your house energy targets.

## Yearly savings with Aquarea HT



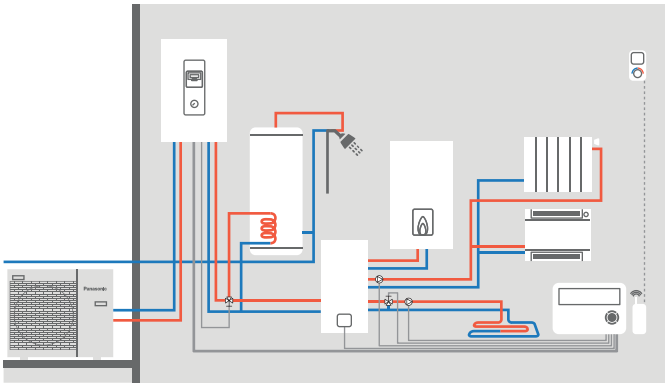

* For a 170m² house and 40 W/m² energy losses in central Europe Conditions, outside minimum conditions -10°C.

## Smart Bivalent operation



Using the Aquarea bivalent controller, it is now possible to combine different heat sources (boiler with heat pump) allowing to set up the system to operate in the most efficient way.

**Heat Pump + Boiler with DHW cylinder controlled by the smart bivalent controller.**

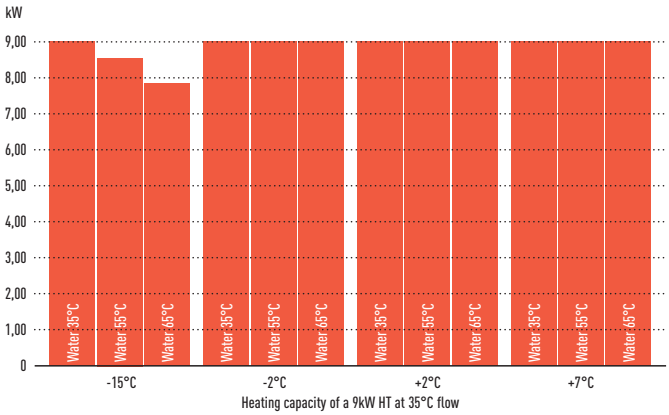


## Easy installation

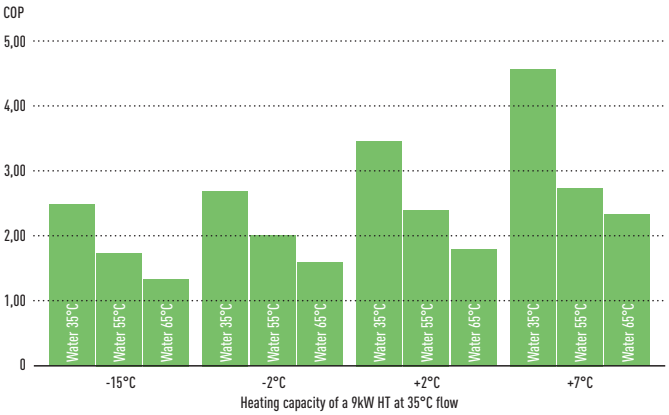
Air source Heat Pumps are simple to install. They do not require a chimney, gas connection or oil/lpg tank. All that is required is a power supply connection.

## Panasonic Aquarea HT is highly efficient even at low outdoor temperatures

Heating Capacity of a 9kW HT (WH-SHF09F3E5).



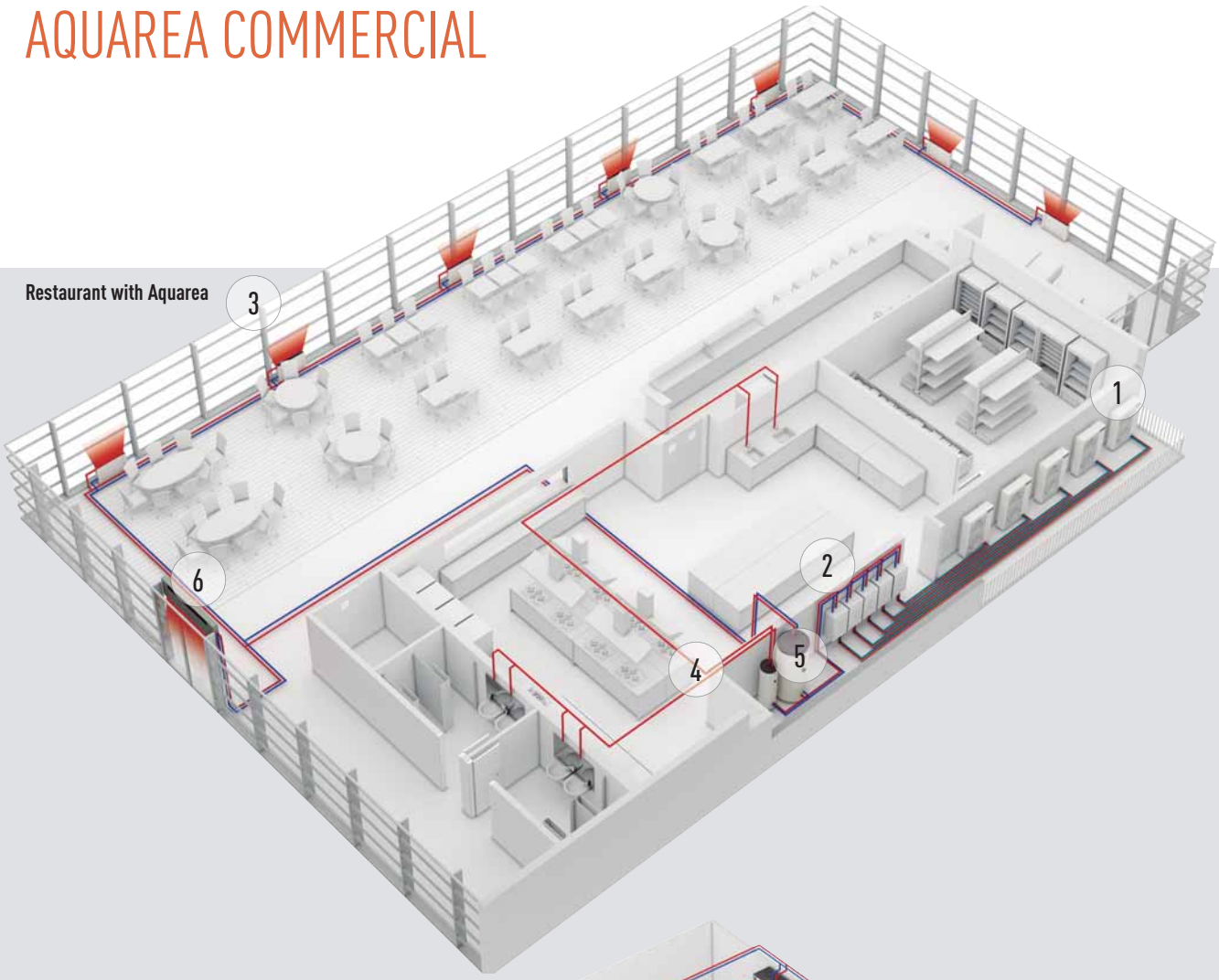

COP (Coefficient of Performance) of a 9kW HT (WH-MHF09G3E5).



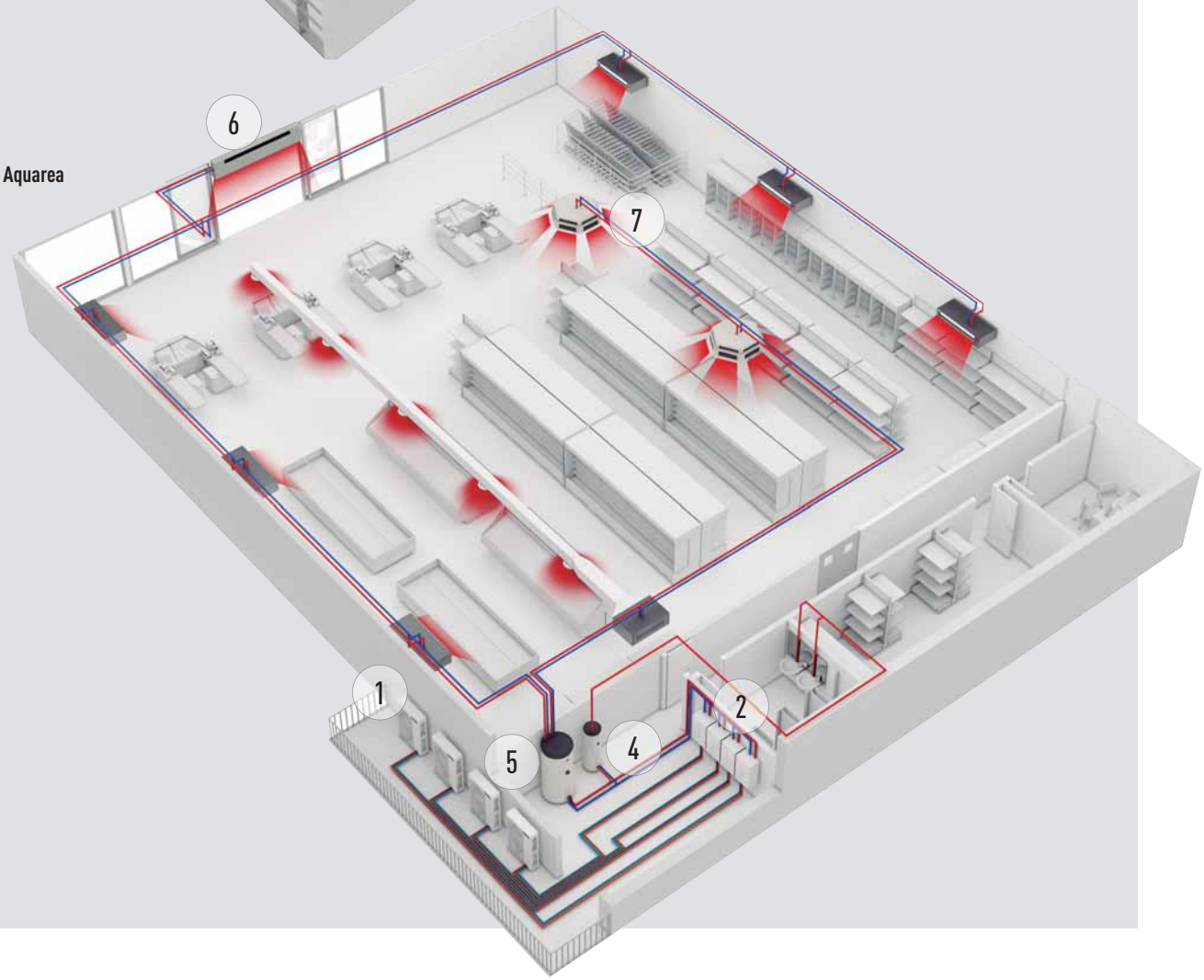

The Aquarea HT range is easy to install and is available with nominal heat outputs of 9kW or 12kW. These can be either single or three phase, in both Bi-bloc and Mono-bloc versions.

# AQUAREA COMMERCIAL

Restaurant with Aquarea




Supermarket with Aquarea



## Solutions for best savings. Efficient Panasonic Heat Pumps can help to significantly reduce the energy consumption of your business. Recent improvements to air source Heat Pump technology, including compact single unit systems, can provide an ideal housing and commercial solution.

They offer space saving, energy-efficient heating and can be easily adapted for installation in flats, houses and commercial premises. Businesses producing heat, such as restaurants, installing an Aquarea Heat Pump system can also use this wasted heat to improve energy efficiency further.

### Restaurant with Aquarea

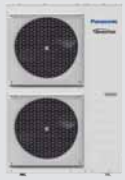
If you are looking for savings for your business, Aquarea is the right choice! Ideal for heating, cooling and for production of big quantities of hot water at 65°C, Aquarea have a quick return on investment and a low carbon footprint.

**Key points:**
- Produce hot water efficiency
- Fast return of investment
- Easy control

### Supermarket with Aquarea

Heat pump technology is scalable, meaning that it can be installed in buildings of varying sizes, offering both small- and large-scale heating solutions. The technology is also environmentally friendly when compared to traditional heating systems alternatives based on fossil fuel energy and in addition it is more energy efficient.

**Can be integrated in the water system.**
Easy connection to existing system
- Fan Coils
- Floor Heating
- 4 way and 2 way convectors
- Domestic hot water tanks
- High efficiency
- Very good part load management

1


**Aquarea T-CAP.**
Heat Pump 16kW on cascade mode.

2


**High Efficiency Aquarea Hydrokit.**

3


**High efficiency Aquarea Air radiators.**
32% more efficient than standard radiators.

3


**New versatile and efficient fan coils.**
Innovation for an optimum comfort.

4

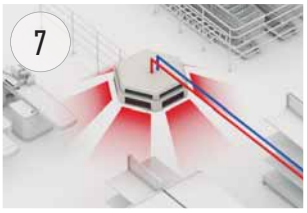

**Super high efficiency Tanks.**
From 200L to 500L for domestic hot water.

5


**Buffer Tank of 1000L.**

6


**Air Curtain with DX Coil.**
Designed for smooth operation and efficient performance.

7


**Convectors.**

### Case study: Carluccio's restaurant

On of UK's leading Italian restaurant, Carluccio's, wanted to install a system which would provide the desired volume of hot water, at the correct temperature while at the same time reduced energy costs. Previous restaurants in the chain had been fitted with a more traditional 12kW boiler system.
FWP installed a 12kW Aquarea T-CAP mono bloc unit which would allow for the free air from the kitchen roof space to be transferred through condensing unit providing hot water at the optimum temperature. With a high coefficient of performance (COP), the system returns an impressive 4kW of energy, for every kW used. This makes the Aquarea far more cost effective than a conventional heating system. To heat the water for their Leeds restaurant cost £3782 whilst at the Meadowhall site the comparable cost was just £951. These sizeable savings mean the site will see a return on investment in approximately 2 years.

# AQUAREA SMART AND SERVICE CLOUD

## 1 AQUAREA SMART CLOUD FOR END USERS






* User interface image may change without notification.

### Easy and powerful energy management

The Aquarea Smart Cloud is much more than a simple thermostat for switching a heating device ON or OFF. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.

### How does it works?

Connect Aquarea J and H Generation system to the cloud using wireless LAN or a wired LAN Network. User connects to the Cloud portal to remotely operate all unit functions and can also permit partners to access customised functions for remote maintenance and monitoring. See demo: https://aquarea.aircon.panasonic.eu

### Requirements

1. Aquarea J and H Generation
2. In-house internet connection with router wireless LAN or wired LAN
3. Get a Panasonic ID in https://aquarea-smart.panasonic.com/

**Functions:**

- Visualization and Control
- Scheduling
- Energy Statistics
- Malfunction notification

### Advantages

Energy savings, comfort and control from anywhere. Increase efficiency and resources management, operating costs savings and owner satisfaction. The new Aquarea Smart Cloud services are focused on enabling full remote maintenance of the Aquarea system. This allow maintenance specialists to engage in predictive maintenance and system fine-tuning, as well as fixing malfunctions when they occur.

| | |
|---|---|
| Aquarea compatibility | J and H Generation |
| Connection point | CN-CNT Aquarea port |
| Home router connection | Wireless or Wired LAN |
| Temperature sensor | Can use remote controller sensor |
| Tablet or PC browser compatibility* | Yes |
| Operation from remote — On/Off — House Temp setting mode selection — DHW setting — Error codes — Scheduling | Yes |
| Heating areas | Up to 2 zones |
| Power consumption estimation — Operation log history | Yes — Yes |

* Check browsers and version compatibility.




1. LAN
2. Aquarea connection by CN-CNT

The most advanced heating control for today and for the future.
Aquarea connect to Cloud with CZ-TAW1, opening 2 different platforms.

# 2 AQUAREA SERVICE CLOUD FOR INSTALLERS / MAINTENANCE



## The real remote maintenance made simple

The Aquarea Service Cloud allows to installers to take care remotely of their customers heating systems. Saving time, money and shortening response time increasing customer satisfaction.

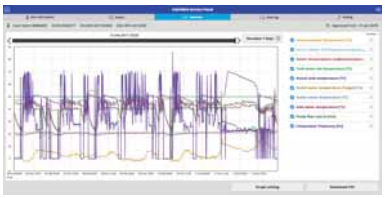
**Advanced functions for remote maintenance with professional screens:**

- Global view at a glance
- Error log history
- Full unit information
- Statistics always available
- Most settings available

**Home page.**
All users connected status at a glance. 2 view options: Map view or list view only.



**Statistics tag.**
Customisable statistics of a maximum 71 parameters. Available anytime with the information of last 7 days.



**Status tag.**
Current status of unit with a maximum 28 parameters.



**Settings tag.**
Most settings of system remotely including user and installer settings.



## Activation Aquarea Service Cloud

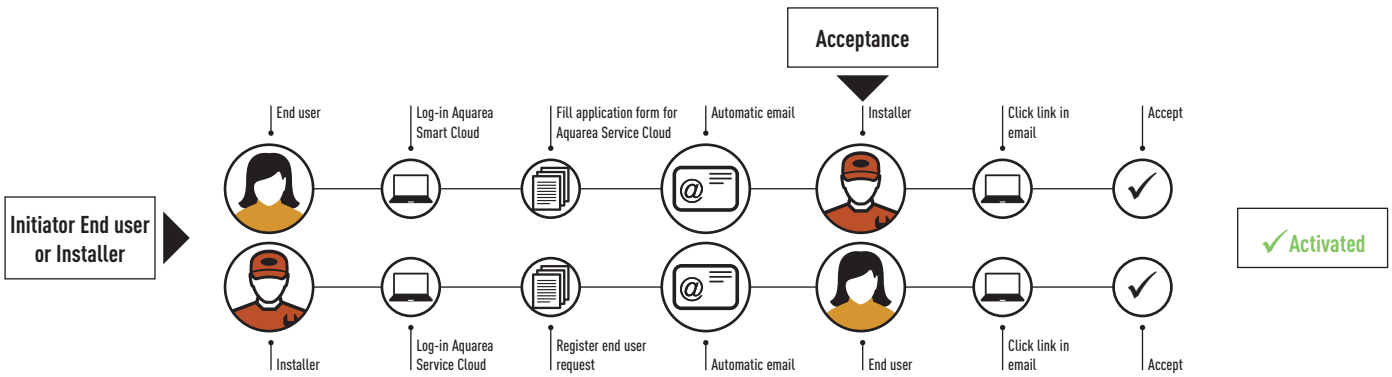
### Requirements.

| Hardware and connection | End user registration | Installer / maintenance registration |
|---|---|---|
| J and H Generation Aquarea connected to CZ-TAW1 | Get Panasonic ID | Get Service ID |
| In house internet connection with Wireless LAN or Wired LAN | Aquarea Smart Cloud | Aquarea Service Cloud |

### Connecting unit to installer/maintenance.

Process can be initiated either both by end user or by installer.
Whenever end user can select/change level of control is giving to installer (4 levels).

**Installer registration: https://aquarea-service.panasonic.com/**
**End user registration: https://aquarea-smart.panasonic.com/**



# CONTROL AND CONNECTIVITY



Home connectivity and Home Managements Systems integration is becoming more and more popular. These integrations helps to control all house devices from centralised platform and helps to optimise the operation and running costs. Panasonic interfaces are made to work with both KNX and Modbus, the most populars protocols. Also for non integrated control, Panasonic developed a simple connection to Wireless LAN, with this End User can control remotely its own heat pump from wherever.

## Connectivity. Control by BMS

Great flexibility for integration into your KNX / Modbus projects allows fully bi-directional monitoring and control of all the functioning parameters.

| Reference | KNX PAW-AW-KNX-1i / PAW-AW-KNX-H | Modbus® PAW-AW-MBS-1 / PAW-AW-MBS-H |
|---|---|---|
| Small dimensions | ✔ | ✔ |
| Quick installation and possibility of hidden installation | ✔ | ✔ |
| External power not required | ✔ | ✔ |
| Direct connection to the unit | ✔ | ✔ |
| Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication | ✔ Fully interoperable | |
| Control and monitoring, from any BMS or PLC Modbus Master, of internal variables of the indoor unit and error codes and indication | | ✔ Fully interoperable |
| Aquarea unit can be controlled simultaneously by its remote controller and by KNX / Modbus Master devices | ✔ | ✔ |

These interfaces allows full monitoring and control, bi-directional, of all the functioning parameters of Aquarea control from KNX / Modbus installations.

| Model name | Interface |
|---|---|
| **PAW-AW-KNX-H** | KNX interface for H Generation |
| **PAW-AW-MBS-H** | Modbus interface for H Generation |
| **PAW-AW-KNX-1i** | KNX interface (not compatible with J and H Generation) |
| **PAW-AW-MBS-1** | Modbus interface (not compatible with J and H Generation) |
| **PA-AW-WIFI-1TE** | Intenet control WLAN connection (not compatible with J and H Generation) |
| **CZ-TAW1** | Aquarea Smart Cloud, H Generation Internet control through wireless or wired LAN |

## Advanced Controller for J and H Generation



**Improved visibility & Easy operation with large full dot LCD display and large touch panel!**
Remote controller can be removed from indoor unit and installed in living room.

**Key Points:**
Full large dot LCD screen (3,5 inch): High resolution screen with backlight, easy set up, check conditions easily, flat, innovative design, temperature sensor included in controller.

**Function for installer:**
- Floor heating concrete dry mode: Allows for a slow increase in temperature of underfloor heating via software.
- Heating and Cooling Mode: Authorised PRO Partners can enable the cooling mode through a special operation via the remote controller on site
- Installer can select delta T. Water pump speed is selected automatically due to this setting

**Function for End User:**
- Auto Mode: Automatically changes from heating to cooling depending on outdoor temperature.
- Energy Consumption Display: Displays the Heat Pump's energy consumption, split by heating, cooling and domestic hot water, showing the total consumption figure.
- Holiday Mode: Enables the system to resume at the preset temperature after your holiday

## Cascade Controller PAW-A2W-CMH



**Cascade up to 10 Aquarea H Generation*.**
- Up to 10HP (working hour balancing)
- 3x M-BUS devices connectable (for heat meter and/or current meter)
- Demand PV functions (similar to HPM + 0-10 V demand signal control function)
- Can control 3 way valves for cooling (2 buffer tanks)
- MODBUS IP for BMS communication
- DHW control logic
- Touch display with information about the HP
- All components in one case

+ Requires 1 PAW-AW-MBS-H per each Aquarea.

# AQUAREA + PV PANELS



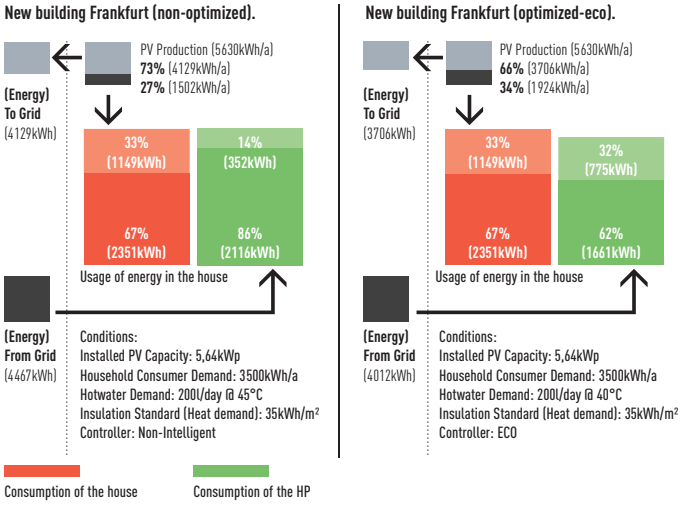
Aquarea J and H Generation can synchronize with PV panels with simple CZ-NS4P PCB. A part of converting Aquarea in Smart Grid Ready, there is a new advantage, this new PCB allows 0-10V control.
With this Aquarea demand is adapting all moment with the PV panel production.
Innovative algorithm balancing the heat pump's consumption and the in-house comfort, based on the outside temperature and the energy demand of the building.




## Heat up Domestic Hot Water for free.

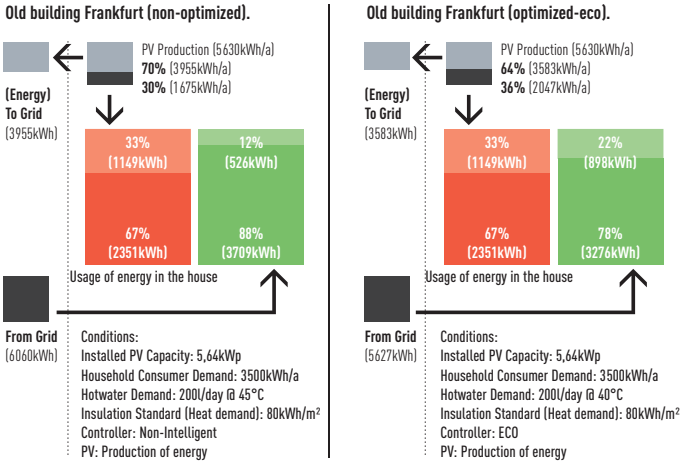
### Comparison on new housing.
### Increase usage of self production by: 120%

The Panasonic Aquarea PV Control could increase the energy usage of the heat pump coming from the Photovoltaic panels from 352kWh to 775kWh a year. Results of simulations:




### Comparison on old housing.
### Increase usage of self production by: 71%

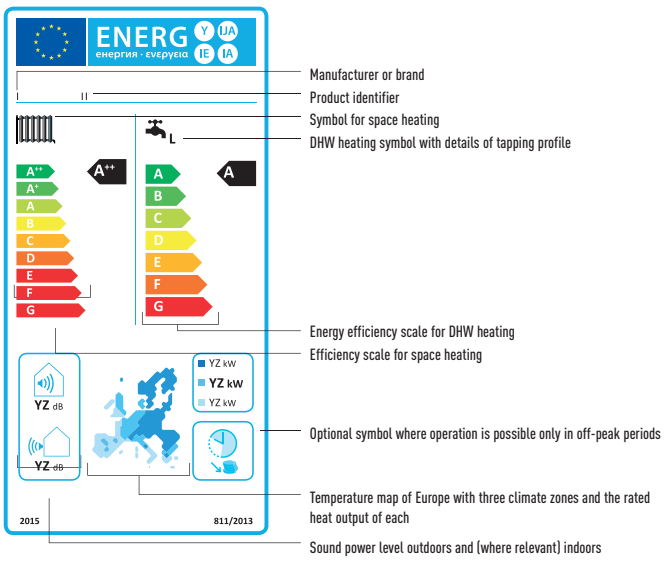
The Panasonic Aquarea PV Control could increase the energy consumption of the heat pump coming from the Photovoltaic Panels from 526kWh to 898kWh a year. Results of simulations:



# PANASONIC'S AQUAREA OFFERS THE BEST FOR YOU AND YOUR HOME

Panasonic will supply the energy label and a product fiche for all delivered products affected by these regulations, which sales partners, traders and contractors must use when labelling our products.




## Energy Label

Fridges, dishwashers, washing machines, ovens – it all started with white goods in the 1990s. Today, other energy-consuming appliances also carry the European energy efficiency label, such as TV sets, lighting and – since September 2014 – even vacuum cleaners. Since 2013 the regulations already apply to air conditioners and heat pumps. Since September 2015, it has been applicable also to room heaters, water heaters and storage water heaters.
Minimum energy efficiency requirements are also specified for manufacturers of system and combi boilers, water heaters and DHW cylinders.
Energy Labels are to assist consumers in their purchasing decisions, and ecodesign requirements on products are to help reduce private energy demand, as well as to contribute minimising global warming.

**Panasonic helps you to calculate the system label .**
From 26th September 2015, installers can be assured that all products manufactured after this date will be sold with the required energy efficiency labels which will aid installers with their paperwork. While it is the manufacturer's responsibility to issue their products with the required labels, the installers will need to calculate and issue an energy efficiency label for the entire heating system. Whether installing a new heating system or installing new boilers, controls or renewables into an existing system, it is, and will continue to be, the installer's responsibility to calculate and issue energy efficiency labels. Calculators which assist installers with this process are available on www.panasonicproclub.com.

**Information on the energy efficiency label.**
The rating system for Heat Pumps classifies them into nine efficiency categories. The best energy efficiency category is A++. The best energy efficiency class is currently A++, the worst is G. The energy efficiency label for system boilers shows its efficiency category on a scale from A++ to G (from A to G for hot water cylinders). In September 2019, a more rigorous scale will be introduced from A+++ to D, and from A+ to F for hot water cylinders.

Panasonic helps you to calculate the system label
www.panasonicproclub.com
or connect simply with your smartphone to the PRO Club using this QR

PRO Club

# A typical example of savings and performances that Aquarea can offer to you.

## A 125m² house in Reims

The example below shows a typical 3 bedroom French home and highlights the potential savings that can be achieved with Panasonic's Aquarea heat pump*.

* Calculations were carried using Panasonic's Aquarea Designer software, available from the PRO Club website (www.panasonicproclub.com).

| **Service hot water** | |
|---|---|
| Type of service | Hot water with heat pump |
| Tank volume | 300 Litre |
| Average daily need | 200 Litre |
| Cold water inlet temperature | 10°C |
| Target tank temperature | 50°C |
| Exchange loss | 5K |
| Electrical auxiliary heating necessary | No |

| **Used Panasonic heat pump** | |
|---|---|
| **Description** | **T-CAP 12kW** |
| **Sanitary tank** | **Stainless steel 300L** |
| Heat pump type | Air / Water |
| Capacity / consumption at 2°C (heating water at 35°C) | Heat: 11,7kW, Electric: 3,4kW |
| Recommended flow-through of air | 80,0m³/min |
| Maximum flow temperature | 55°C |
| Mode of operation | Monovalent |
| Design | -5,0°C |
| Number of heat pumps used | 1 |
| Wattage of fan (included in heat pump performance data: yes) | 60W |
| Power consumption of heat circulation pump(s) | 180W |

| **Building data** | |
|---|---|
| Address | Reims (French) |
| Building area | 125m² |
| Standard heating requirement | 11,3kW |
| Internal gains | 5625kWh/year |
| Solar gains (windows) | 4500kWh/year |
| Indoor design temperature | 20°C |
| Outdoor temperature limit for heating 'ON' | 15°C |
| Heat distribution | Underfloor heating by 100 % |
| | Radiator heating by -- % |
| | Wall heating by -- % |
| Maximum flow water temperature | 55°C |
| Maximum return water temperature | 50°C |
| Solar collector area | -- m² |

| **Rate data** | | |
|---|---|---|
| Description | French (Panasonic) | |
| Shut OFF times total | 0,0 h/day | |
| Weekends with shut OFF times | Yes | |
| Daytime rate of heat pump | Time for daytime rate | |
| | 5-19 o'clock | 14,0 pence/kWh |
| Nighttime rate of heat pump | Time for nighttime rate | |
| | 19-5 o'clock | 14,0 pence/kWh |
| Heat circulation pump(s) | Like heat pump: yes | -- pence/kWh |
| Heating element for monoenergetic operation | Like heat pump: yes | -- pence/kWh |
| Heating element for post heating of hot water | Like heat pump: yes | -- pence/kWh |

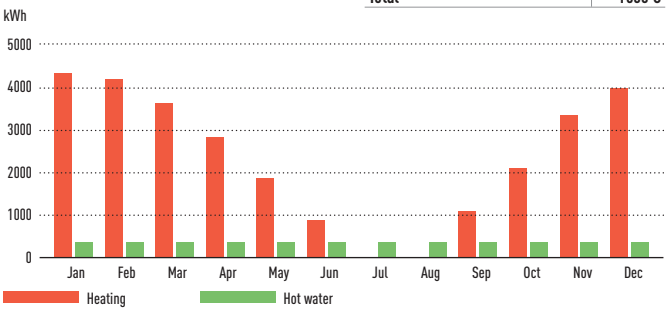
| **Climatic data** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Climatic location | Reims (FR) | | | | | | | |
| Monthly average temperatures in°C | Jan | 3,4 | Apr | 8,0 | Jul | 16,0 | Oct | 10,4 |
| | Feb | 3,6 | May | 11,2 | Aug | 15,9 | Nov | 6,7 |
| | Mar | 5,7 | Jun | 14,1 | Sep | 13,7 | Dec | 4,6 |

## Calculation results

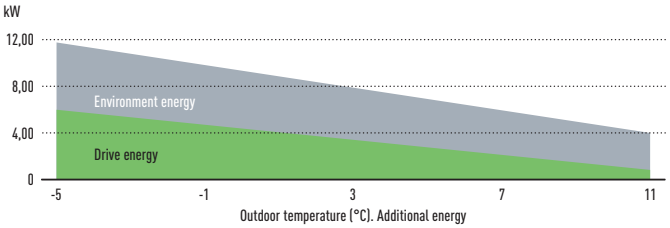
### Monthly heat consumption in kWh.

| **Annual energy costs** | |
|---|---|
| **Caused by heat producers** | |
| Heat pump | 1600 € |
| Hot water heating rod | 0 € |

| **Caused by heat consumers** | |
|---|---|
| Space heating | 1220 € |
| Service hot water | 225 € |
| Heat circulation pump(s) | 155 € |
| **Total** | **1600 €** |

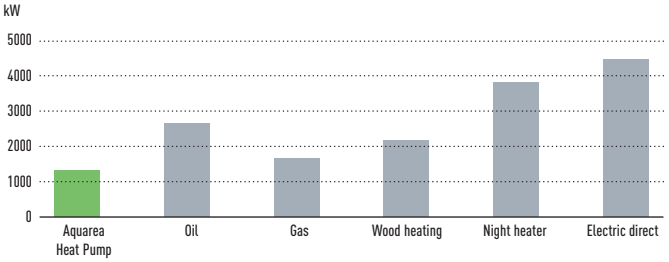



### Aquarea energy coverage.

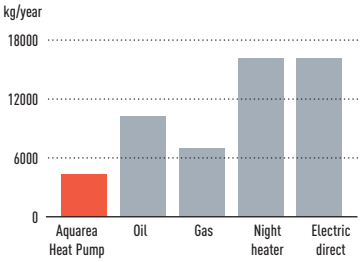



### Comparison of running costs.

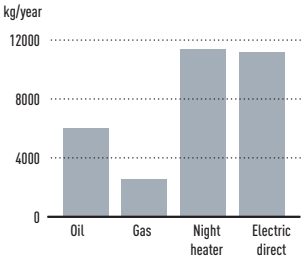
| **Operational costs** | | | | |
|---|---|---|---|---|
| Type of heating | Price in pence /kWh | Efficiency (%) | Additional costs in €/year | Total costs in €/year |
| Heat pump | - | - | 0 | 1600 |
| Oil | 6,5 | 85 | 0 | 3050 |
| Gas | 4,0 | 90 | 0 | 1868 |
| Wood heating | 5,0 | 80 | 0 | 2539 |
| Electric night storage heater | 12,0 | 100 | 0 | 4455 |
| Electric heating element | 14,0 | 100 | 0 | 5197 |




### Comparison of $CO_2$ emissions.




### Comparison of $CO_2$ savings.



# AQUAREA HEAT PUMPS LINE-UP

| | | 3kW | 5kW | 7kW |
|---|---|---|---|---|
| **Aquarea High Performance**<br>**P. 46, 48, 49** | **All in One**<br>1 Phase<br>3 Phase |  <br>WH-ADC0309J3E5<br>WH-ADC0309J3E5B<br>WH-UD03JE5<br>WH-ADC0309H3E5<br>WH-ADC0309H3E5B<br>WH-UD03HE5-1 |  <br>WH-ADC0309J3E5<br>WH-ADC0309J3E5B<br>WH-UD05JE5<br>WH-ADC0309H3E5<br>WH-ADC0309H3E5B<br>WH-UD05HE5-1 |  <br>WH-ADC0309J3E5<br>WH-ADC0309J3E5B<br>WH-UD07JE5<br>WH-ADC0309H3E5<br>WH-ADC0309H3E5B<br>WH-UD07HE5-1 |
| **P. 47, 52, 53** | **Bi-bloc**<br>1 Phase<br>3 Phase |  <br>  <br>WH-SDC0305J3E5<br>WH-UD03JE5<br>WH-SDC03H3E5-1<br>WH-UD03HE5-1 |  <br>  <br>WH-SDC0305J3E5<br>WH-UD05JE5<br>WH-SDC05H3E5-1<br>WH-UD05HE5-1 |  <br>  <br>WH-SDC0709J3E5<br>WH-UD07JE5<br>WH-SDC07H3E5-1<br>WH-UD07HE5-1 |
| **P. 56** | **Mono-bloc**<br>1 Phase |  <br>WH-MDC05H3E5 |  <br>WH-MDC07H3E5 | |
| **Aquarea T-CAP**<br>**P. 50-51** | **All in One**<br>1 Phase<br>3 Phase | | | |
| **P. 54-55** | **Bi-bloc**<br>1 Phase<br>3 Phase | | | |
| **P. 57** | **Mono-bloc**<br>1 Phase<br>3 Phase | | | |
| **Aquarea HT**<br>**P. 58** | **Bi-bloc**<br>1 Phase<br>3 Phase | | | |
| **P. 59** | **Mono-bloc**<br>1 Phase | | | |

Heating. Cooling. DHW. WH-__E5 1 Phase // WH-__E8 3 Phase.

| 9kW | 12kW | 16kW |
|---|---|---|
|  WH-ADC0309J3E5<br>WH-ADC0309J3E5B<br>WH-UD09JE5<br>WH-ADC0309H3E5<br>WH-ADC0309H3E5B<br>WH-UD09HE5-1<br>WH-ADC0916H9E8<br>WH-UD09HE8 |  WH-ADC1216H6E5<br>WH-UD12HE5<br>WH-ADC0916H9E8<br>WH-UD12HE8 |  WH-ADC1216H6E5<br>WH-UD16HE5<br>WH-ADC0916H9E8<br>WH-UD16HE8 |
|  WH-SDC0709J3E5<br>WH-UD09JE5<br>WH-SDC09H3E5-1<br>WH-UD09HE5-1<br>WH-SDC09H3E8<br>WH-UD09HE8 |  WH-SDC12H6E5<br>WH-UD12HE5<br>WH-SDC12H9E8<br>WH-UD12HE8 |  WH-SDC16H6E5<br>WH-UD16HE5<br>WH-SDC16H9E8<br>WH-UD16HE8 |
|  WH-MDC09H3E5 |  WH-MDC12H6E5 |  WH-MDC16H6E5 |
|  WH-ADC1216H6E5<br>WH-UX09HE5<br>WH-ADC0916H9E8<br>WH-UX09HE8<br>WH-ADC0916H9E8<br>WH-UQ09HE8 |  WH-ADC1216H6E5<br>WH-UX12HE5<br>WH-ADC0916H9E8<br>WH-UX12HE8<br>WH-ADC0916H9E8<br>WH-UQ12HE8 |  WH-ADC0916H9E8<br>WH-UX16HE8<br>WH-ADC0916H9E8<br>WH-UQ16HE8 |
|  WH-SXC09H3E5<br>WH-UX09HE5<br>WH-SXC09H3E8<br>WH-UX09HE8<br>WH-SQC09H3E8<br>WH-UQ09HE8 |  WH-SXC12H6E5<br>WH-UX12HE5<br>WH-SXC12H9E8<br>WH-UX12HE8<br>WH-SQC12H9E8<br>WH-UQ12HE8 |  WH-SXC16H9E8<br>WH-UX16HE8<br>WH-SQC16H9E8<br>WH-UQ16HE8 |
|  WH-MXC09H3E5<br>WH-MXC09H3E8 |  WH-MXC12H6E5<br>WH-MXC12H9E8 |  WH-MXC16H9E8 |
|  WH-SHF09F3E5<br>WH-UH09FE5<br>WH-SHF09F3E8<br>WH-UH09FE8 |  WH-SHF12F6E5<br>WH-UH12FE5<br>WH-SHF12F9E8<br>WH-UH12FE8 | |
|  WH-MHF09G3E5 |  WH-MHF12G6E5 | |

# New Aquarea High Performance All in One J Generation Single Phase. Heating and Cooling 1 or 2 zones • R32 Gas



GOOD DESIGN AWARD 2017

NEW 2019

## Technical focus

• Top level COP 5,33 • Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)




**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| Tentative Data | | | Single Phase (Power to indoor) | | | |
|---|---|---|---|---|---|---|
| **Kit* 1 zone (for 2 zone add B at the end)** | | | **KIT-ADC03JE5** | **KIT-ADC05JE5** | **KIT-ADC07JE5** | **KIT-ADC09JE5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 3,20 / 5,33 | 5,00 / 5,00 | 7,00 / 4,76 | 9,00 / 4,48 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 3,20 / 2,81 | 5,00 / 2,72 | 7,00 / 2,82 | 8,95 / 2,78 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 3,20 / 3,64 | 4,20 / 3,18 | 6,85 / 3,41 | 7,00 / 3,40 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 3,20 / 2,19 | 4,10 / 1,99 | 6,20 / 2,21 | 6,30 / 2,16 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 3,30 / 2,80 | 4,20 / 2,59 | 5,60 / 2,87 | 6,12 / 2,78 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 3,20 / 1,79 | 3,55 / 1,71 | 5,25 / 1,94 | 5,90 / 1,93 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 3,20 / 3,52 | 4,50 / 3,00 | 6,70 / 3,03 | 7,60 / 2,90 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 3,20 / 4,85 | 4,80 / 4,29 | 6,70 / 4,72 | 7,60 / 4,37 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 200 / 132 | 200 / 132 | 193 / 130 | 193 / 130 |
| | | SCOP | 5,07 / 3,47 | 5,07 / 3,47 | 4,90 / 3,32 | 4,90 / 3,32 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 245 / 155 | 245 / 155 | 227 / 160 | 227 / 160 |
| | | SCOP | 6,20 / 4,20 | 6,20 / 4,20 | 5,75 / 4,07 | 5,75 / 4,07 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 157 / 99 | 157 / 99 | 164 / 116 | 164 / 116 |
| | | SCOP | 4,00 / 2,83 | 4,00 / 2,83 | 4,18 / 2,98 | 4,18 / 2,98 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A+ | A++ / A+ | A+++ / A+ | A+++ / A+ |
| **Indoor unit 1 zone hydrokit** | | | **WH-ADC0309J3E5** | **WH-ADC0309J3E5** | **WH-ADC0309J3E5** | **WH-ADC0309J3E5** |
| **Indoor unit 2 zones built-in hydrokit** | | | **WH-ADC0309J3E5B** | **WH-ADC0309J3E5B** | **WH-ADC0309J3E5B** | **WH-ADC0309J3E5B** |
| Sound pressure | Heat / Cool | dB(A) | 28 / 28 | 28 / 28 | 28 / 28 | 28 / 28 |
| Dimension | H x W x D | mm | 1800 x 598 x 717 | 1800 x 598 x 717 | 1800 x 598 x 717 | 1800 x 598 x 717 |
| Net weight 1 zone / 2 zones | | kg | 122 / 130 | 122 / 130 | 122 / 130 | 122 / 130 |
| Water pipe connector | | Inch | R 1 1/4 | R 1 1/4 | R 1 1/4 | R 1 1/4 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 30 / 120 | 30 / 120 | 30 / 120 | 30 / 120 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 9,20 | 14,30 | 20,10 | 25,80 |
| Capacity of integrated electric heater | | kW | 3,00 | 3,00 | 3,00 | 3,00 |
| Recommended fuse | | A | 16 / 16 | 16 / 16 | 25 / 16 | 25 / 16 |
| Recommended cable size, supply 1 / 2 | | mm² | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 2,5 / 3 x 1,5 | 3 x 2,5 / 3 x 1,5 |
| Water volume | | L | 185 | 185 | 185 | 185 |
| Maximum water temperature | | °C | 65 | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Tapping profile according EN16147 | | | L | L | L | L |
| DHW Tank ERP Average climate efficiency rating [2] | | A to G / A+ to F | A / A+ | A / A+ | A / A+ | A / A+ |
| DHW Tank ERP Warm climate efficiency rating [2] | | A to G / A+ to F | A / A+ | A / A+ | A / A+ | A / A+ |
| DHW Tank ERP Cold climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A | A / A |
| DHW Tank ERP Average climate ETA / SCOP | | ETA % / SCOP | 132 / 3,30 | 132 / 3,30 | 120 / 3,00 | 120 / 3,00 |
| DHW Tank ERP Warm climate ETA / SCOP | | ETA % / SCOP | 155 / 3,88 | 155 / 3,88 | 140 / 3,50 | 140 / 3,50 |
| DHW Tank ERP Cold climate ETA / SCOP | | ETA % / SCOP | 99 / 2,48 | 99 / 2,48 | 99 / 2,47 | 99 / 2,47 |
| **Outdoor unit** | | | **WH-UD03JE5** | **WH-UD05JE5** | **WH-UD07JE5** | **WH-UD09JE5** |
| Sound power part load | Heat | dB | 55 | 55 | 59 | 59 |
| Sound power full load | Heat / Cool | dB | 60 / 61 | 64 / 64 | 68 / 67 | 69 / 68 |
| Dimension / Net weight | H x W x D | mm / kg | 622 x 824 x 298 / 37 | 622 x 824 x 298 / 37 | 795 x 875 x 320 / 61 | 795 x 875 x 320 / 61 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,9 / 0,608 | 0,9 / 0,608 | 1,27 / 0,857 | 1,27 / 0,857 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 5/8 (15,88) | 1/4 (6,35) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out) | | m / m | 3 ~ 25 / 20 | 3 ~ 25 / 20 | 3 ~ 50 / 30 | 3 ~ 50 / 30 |
| Pipe length for additional gas / Additional gas amount | | m / g/m | 10 / 20 | 10 / 20 | 10 / 25 | 10 / 25 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 |

| Accessories | |
|---|---|
| **PAW-ADC-PREKIT-1** | Pre installation kit for piping |
| **PAW-ADC-CV150** | Decorative magnetic side cover |
| **CZ-NS4P** | Additional functions PCB |

| Accessories | |
|---|---|
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019.
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility. * Available in Spring 2019.




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# New Aquarea High Performance Bi-bloc J Generation Single Phase. Heating and Cooling - SDC • R32 Gas



GOOD DESIGN AWARD 2017

NEW 2019



## Technical focus

• Super efficient in the 3,2kW! • Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G



**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase (Power to indoor) | | | |
|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-WC03J3E5** | **KIT-WC05J3E5** | **KIT-WC07J3E5** | **KIT-WC09J3E5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 3,20 / — | 5,00 / — | 7,00 / — | 9,00 / — |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | — / — | — / — | — / — | — / — |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | — / — | — / — | — / — | — / — |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | — / — | — / — | — / — | — / — |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | — / — | — / — | — / — | — / — |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | — / — | — / — | — / — | — / — |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | — / — | — / — | — / — | — / — |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | — / — | — / — | — / — | — / — |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | — / — | — / — | — / — | — / — |
| | | SCOP | — / — | — / — | — / — | — / — |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | — / — | — / — | — / — | — / — |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | — / — | — / — | — / — | — / — |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | — / — | — / — | — / — | — / — |
| | | SCOP | — / — | — / — | — / — | — / — |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | — / — | — / — | — / — | — / — |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | — / — | — / — | — / — | — / — |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | — / — | — / — | — / — | — / — |
| | | SCOP | — / — | — / — | — / — | — / — |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | — / — | — / — | — / — | — / — |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | — / — | — / — | — / — | — / — |
| **Indoor unit** | | | **WH-SDC0305J3E5** | **WH-SDC0305J3E5** | **WH-SDC0709J3E5** | **WH-SDC0709J3E5** |
| Sound pressure | Heat / Cool | dB(A) | — / — | — / — | — / — | — / — |
| Dimension | H x W x D | mm | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 |
| Net weight | | kg | — | — | — | — |
| Water pipe connector | | Inch | — | — | — | — |
| A class pump | Number of speeds | | — | — | — | — |
| | Input power (Min / Max) | W | — / — | — / — | — / — | — / — |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | — | — | — | — |
| Capacity of integrated electric heater | | kW | — | — | — | — |
| Recommended fuse | | A | — / — | — / — | — / — | — / — |
| Recommended cable size, supply 1 / 2 | | mm² | — / — | — / — | — / — | — / — |
| **Outdoor unit** | | | **WH-UD03JE5** | **WH-UD05JE5** | **WH-UD07JE5** | **WH-UD09JE5** |
| Sound power at Quiet Mode 3 (A +7°C, W 55°C) | | dB | 55 | 55 | — | — |
| Sound power full load | Heat / Cool | dB | 60 / 61 | 64 / 64 | 68 / 67 | 69 / 68 |
| Dimension | H x W x D | mm | 622 x 824 x 298 | 622 x 824 x 298 | 795 x 875 x 320 | 795 x 875 x 320 |
| Net weight | | kg | 37 | 37 | 61 | 61 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,9 / 0,608 | 0,9 / 0,608 | 1,27 / 0,857 | 1,27 / 0,857 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 5/8 (15,88) | 1/4 (6,35) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 25 | 3 ~ 25 | 3 ~ 50 | 3 ~ 50 |
| Elevation difference (in/out) | | m | 20 | 20 | 30 | 30 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 20 | 20 | 25 | 25 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 25 ~ 60 / 5 ~ 20 | 25 ~ 60 / 5 ~ 20 | 25 ~ 60 / 5 ~ 20 | 25 ~ 60 / 5 ~ 20 |

PRELIMINARY DATA

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve Kit for inside of hydrokit |

| **Accessories** | |
|---|---|
| **CZ-NS4P** | Additional functions PCB |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height.
1) Scale from A++ to G and from A+++ to D from 26th September 2019.
* Available in Autumn 2019.

R32 | A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -20°C HEATING MODE | STOP STOP VALVE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# Aquarea High Performance All in One
# H Generation Single Phase.
# Heating and Cooling 1 or 2 zones • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

• Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)




**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase (Power to indoor) | | | |
|---|---|---|---|---|---|---|
| **Kit 1 zone (for 2 zone add B at the end)** | | | **KIT-ADC03HE5** | **KIT-ADC05HE5** | **KIT-ADC07HE5** | **KIT-ADC09HE5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 3,20 / 5,00 | 5,00 / 4,63 | 7,00 / 4,46 | 9,00 / 4,13 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 3,20 / 2,67 | 5,00 / 2,65 | 6,80 / 2,63 | 8,90 / 2,41 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 3,20 / 3,56 | 4,20 / 3,11 | 6,55 / 3,34 | 6,70 / 3,13 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 3,20 / 2,15 | 4,10 / 1,98 | 6,00 / 1,99 | 6,00 / 1,99 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 3,20 / 2,69 | 4,20 / 2,59 | 5,15 / 2,68 | 5,90 / 2,52 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 3,20 / 1,72 | 3,55 / 1,71 | 4,80 / 1,89 | 5,80 / 1,88 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 3,20 / 3,08 | 4,50 / 2,69 | 6,00 / 2,63 | 7,00 / 2,43 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 3,30 / 3,75 | 5,00 / 3,76 | 6,00 / 3,57 | 7,00 / 3,26 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 195 / 130 | 195 / 130 | 190 / 130 | 190 / 130 |
| | | SCOP | 4,95 / 3,33 | 4,95 / 3,33 | 4,83 / 3,33 | 4,83 / 3,33 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 244 / 163 | 244 / 163 | 225 / 160 | 225 / 160 |
| | | SCOP | 6,18 / 4,15 | 6,18 / 4,15 | 5,70 / 4,08 | 5,70 / 4,08 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 150 / 103 | 150 / 103 | 160 / 115 | 160 / 115 |
| | | SCOP | 3,83 / 2,65 | 3,83 / 2,65 | 4,08 / 2,95 | 4,08 / 2,95 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+ | A+++ / A+ | A+++ / A+ | A+++ / A+ |
| **Indoor unit 1 zone hydrokit** | | | **WH-ADC0309H3E5** | **WH-ADC0309H3E5** | **WH-ADC0309H3E5** | **WH-ADC0309H3E5** |
| **Indoor unit 2 zones built-in hydrokit** | | | **WH-ADC0309H3E5B** | **WH-ADC0309H3E5B** | **WH-ADC0309H3E5B** | **WH-ADC0309H3E5B** |
| Sound pressure | Heat / Cool | dB(A) | 28 / 28 | 28 / 28 | 28 / 28 | 28 / 28 |
| Dimension / Net weight | H x W x D | mm / kg | 1800 x 598 x 717 / 124 | 1800 x 598 x 717 / 124 | 1800 x 598 x 717 / 124 | 1800 x 598 x 717 / 124 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 30 / 120 | 30 / 120 | 30 / 120 | 30 / 120 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 9,2 | 14,3 | 20,1 | 25,8 |
| Capacity of integrated electric heater | | kW | 3 | 3 | 3 | 3 |
| Recommended fuse | | A | 15 / 15 | 15 / 15 | 30 / 15 | 30 / 15 |
| Recommended cable size, supply 1 & 2 | | mm² | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 2,5 / 3 x 1,5 | 3 x 2,5 / 3 x 1,5 |
| Water volume | | L | 185 | 185 | 185 | 185 |
| Maximum water temperature | | °C | 65 | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Tapping profile according EN16147 | | | L | L | L | L |
| DHW Tank ERP Average climate efficiency rating [2] | | A to G / A+ to F | A / A+ | A / A+ | A / A | A / A |
| DHW Tank ERP Warm climate efficiency rating [2] | | A to G / A+ to F | A / A+ | A / A+ | A / A+ | A / A+ |
| DHW Tank ERP Cold climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A | A / A |
| DHW Tank ERP Average climate ETA / SCOP | | ETA % / SCOP | 120 / 3,00 | 120 / 3,00 | 113 / 2,83 | 113 / 2,83 |
| DHW Tank ERP Warm climate ETA / SCOP | | ETA % / SCOP | 147 / 3,68 | 147 / 3,68 | 132 / 3,30 | 132 / 3,30 |
| DHW Tank ERP Cold climate ETA / SCOP | | ETA % / SCOP | 94 / 2,35 | 94 / 2,15 | 86 / 2,15 | 86 / 1,88 |
| **Outdoor unit** | | | **WH-UD03HE5-1** | **WH-UD05HE5-1** | **WH-UD07HE5-1** | **WH-UD09HE5-1** |
| Sound power full load | Heat / Cool | dB | 64 / 65 | 65 / 66 | 68 / 66 | 69 / 68 |
| Dimension / Net weight | H x W x D | mm / kg | 622 x 824 x 298 / 39 | 622 x 824 x 298 / 39 | 795 x 900 x 320 / 66 | 795 x 900 x 320 / 66 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,20 / 2,506 | 1,20 / 2,506 | 1,45 / 3,028 | 1,45 / 3,028 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 5/8 (15,88) | 1/4 (6,35) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out) | | m / m | 3 ~ 15 / 5 | 3 ~ 15 / 5 | 3 ~ 40 / 30 | 3 ~ 40 / 30 |
| Pipe length for additional gas / Additional gas amount | | m / g/m | 10 / 20 | 10 / 20 | 10 / 30 | 10 / 30 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 52 | 58 | 57 | 59 |

| **Accessories** | |
|---|---|
| **PAW-ADC-PREKIT-1** | Pre installation kit for piping |
| **PAW-ADC-CV150** | Decorative magnetic side cover |
| **CZ-NS4P** | Additional functions PCB |

| **Accessories** | |
|---|---|
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

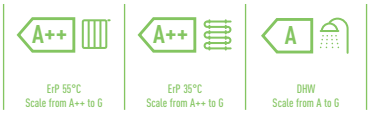
# Aquarea High Performance All in One
# H Generation Single Phase / Three Phase.
# Heating and Cooling • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

• Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)






**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase (Power to indoor) | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-ADC12HE5** | **KIT-ADC16HE5** | **KIT-ADC09HE8** | **KIT-ADC12HE8** | **KIT-ADC16HE8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 12,00/4,74 | 16,00/4,28 | 9,00/4,84 | 12,00/4,74 | 16,00/4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 12,00/2,88 | 14,50/2,68 | 9,00/2,94 | 12,00/2,88 | 14,50/2,68 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 11,40/3,44 | 13,00/3,28 | 9,00/3,59 | 11,40/3,44 | 13,00/3,28 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,10/2,20 | 9,80/2,17 | 8,80/2,23 | 9,10/2,20 | 9,80/2,17 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 10,00/2,73 | 11,40/2,57 | 9,00/2,85 | 10,00/2,73 | 11,40/2,57 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 8,20/1,92 | 9,00/1,82 | 7,90/2,05 | 8,20/1,92 | 9,00/1,82 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 10,00/2,81 | 12,20/2,56 | 7,00/3,17 | 10,00/2,85 | 12,20/2,56 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 10,00/4,17 | 12,20/4,12 | 7,00/4,61 | 10,00/4,17 | 12,20/4,12 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 190/134 | 190/130 | 190/133 | 190/134 | 190/130 |
| | | SCOP | 4,83/3,43 | 4,83/3,33 | 4,83/3,40 | 4,83/3,43 | 4,83/3,33 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++/A++ | A++/A++ | A++/A++ | A++/A++ | A++/A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++/A++ | A+++/A++ | A+++/A++ | A+++/A++ | A+++/A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 245/159 | 245/169 | 245/159 | 245/159 | 245/169 |
| | | SCOP | 6,20/4,05 | 6,20/4,30 | 6,20/4,05 | 6,20/4,05 | 6,20/4,30 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++/A++ | A++/A++ | A++/A++ | A++/A++ | A++/A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++/A+++ | A+++/A+++ | A+++/A+++ | A+++/A+++ | A+++/A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 168/121 | 168/121 | 168/121 | 168/121 | 168/121 |
| | | SCOP | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++/A+ | A++/A+ | A++/A+ | A++/A+ | A++/A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A+++/A+ | A+++/A+ | A+++/A+ | A+++/A+ | A+++/A+ |
| **Indoor unit** | | | **WH-ADC1216H6E5** | **WH-ADC1216H6E5** | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33/33 | 33/33 | 33/33 | 33/33 | 33/33 |
| Dimension / Net weight | H x W x D | mm / kg | 1800 x 598 x 717/124 | 1800 x 598 x 717/124 | 1800 x 598 x 717/126 | 1800 x 598 x 717/126 | 1800 x 598 x 717/126 |
| Water pipe connector | | Inch | R1 | R1 | R1 | R1 | R1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min/Max) | W | 36/152 | 36/152 | 36/152 | 36/152 | 36/152 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 34,4 | 45,9 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 6 | 6 | 9 | 9 | 9 |
| Recommended fuse | | A | 30/30 | 30/30 | 16/16 | 16/16 | 16/16 |
| Recommended cable size, supply 1 & 2 | | mm² | 3 x 4,0/3 x 4,0 | 3 x 4,0/3 x 4,0 | 5 x 1,5/5 x 1,5 | 5 x 1,5/5 x 1,5 | 5 x 1,5/5 x 1,5 |
| Water volume | | L | 185 | 185 | 185 | 185 | 185 |
| Maximum water temperature | | °C | 65 | 65 | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Tapping profile according EN16147 | | | L | L | L | L | L |
| DHW Tank ERP Average climate efficiency rating [2] | | A to G / A+ to F | A/A | A/A | A/A | A/A | A/A |
| DHW Tank ERP Warm climate efficiency rating [2] | | A to G / A+ to F | A/A | A/A | A/A | A/A | A/A |
| DHW Tank ERP Cold climate efficiency rating [2] | | A to G / A+ to F | A/A | B/B | A/A | A/A | B/B |
| DHW Tank ERP Average climate ETA / SCOP | | ETA % / SCOP | 95/2,38 | 91/2,28 | 95/2,38 | 95/2,38 | 91/2,28 |
| DHW Tank ERP Warm climate ETA / SCOP | | ETA % / SCOP | 110/2,75 | 107/2,68 | 110/2,75 | 110/2,75 | 107/2,68 |
| DHW Tank ERP Cold climate ETA / SCOP | | ETA % / SCOP | 75/1,80 | 72/1,88 | 75/1,88 | 75/1,80 | 72/1,88 |
| **Outdoor unit** | | | **WH-UD12HE5** | **WH-UD16HE5** | **WH-UD09HE8** | **WH-UD12HE8** | **WH-UD16HE8** |
| Sound power full load | Heat / Cool | dB | 69/68 | 72/72 | 68/67 | 69/68 | 72/72 |
| Dimension / Net weight | H x W x D | mm / kg | 1340 x 900 x 320/101 | 1340 x 900 x 320/101 | 1340 x 900 x 320/107 | 1340 x 900 x 320/107 | 1340 x 900 x 320/107 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8(9,52)/5/8(15,88) | 3/8(9,52)/5/8(15,88) | 3/8(9,52)/5/8(15,88) | 3/8(9,52)/5/8(15,88) | 3/8(9,52)/5/8(15,88) |
| Pipe length range / Elevation difference (in/out) | | m / m | 3 ~ 50/30 | 3 ~ 50/30 | 3 ~ 30/30 | 3 ~ 30/30 | 3 ~ 30/30 |
| Pipe length for additional gas / Additional gas amount | | m / g/m | 10/50 | 10/50 | 10/50 | 10/50 | 10/50 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 55/5 ~ 20 | 20 ~ 55/5 ~ 20 | 20 ~ 55/5 ~ 20 | 20 ~ 55/5 ~ 20 | 20 ~ 55/5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 65 | 65 | 63 | 65 | 66 |

| **Accessories** | |
|---|---|
| **PAW-ADC-PREKIT-1** | Pre installation kit for piping |
| **PAW-ADC-CV150** | Decorative magnetic side cover |
| **CZ-NS4P** | Additional functions PCB |

| **Accessories** | |
|---|---|
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# Aquarea T-CAP All in One H Generation Single Phase / Three Phase. Heating and Cooling • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

• Works at temperatures as low as -28°C • Constant capacity up to -20°C • Reduced installation costs • Reduced installation time and minimised installation errors • Easy remote controller to set up • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)






**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase (Power to indoor) | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-AXC09HE5** | **KIT-AXC12HE5** | **KIT-AXC09HE8** | **KIT-AXC12HE8** | **KIT-AXC16HE8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,84 | 12,00 / 4,74 | 9,00 / 4,84 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 9,00 / 2,94 | 12,00 / 2,88 | 9,00 / 2,94 | 12,00 / 2,88 | 16,00 / 2,71 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,59 | 12,00 / 3,44 | 9,00 / 3,59 | 12,00 / 3,44 | 16,00 / 3,10 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,00 / 2,21 | 12,00 / 2,19 | 9,00 / 2,21 | 12,00 / 2,19 | 16,00 / 2,13 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,85 | 12,00 / 2,72 | 9,00 / 2,85 | 12,00 / 2,72 | 16,00 / 2,49 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 9,00 / 2,02 | 12,00 / 1,92 | 9,00 / 2,02 | 12,00 / 1,92 | 16,00 / 1,86 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 7,00 / 3,17 | 10,00 / 2,81 | 7,00 / 3,17 | 10,00 / 2,81 | 12,20 / 2,57 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 7,00 / 5,19 | 10,00 / 5,13 | 7,00 / 5,19 | 10,00 / 5,13 | 12,20 / 3,49 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 181 / 130 | 170 / 130 | 181 / 130 | 170 / 130 | 160 / 125 |
| | | SCOP | 4,60 / 3,33 | 4,33 / 3,33 | 4,60 / 3,33 | 4,33 / 3,33 | 4,08 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 235 / 158 | 231 / 158 | 235 / 158 | 231 / 158 | 231 / 159 |
| | | SCOP | 5,95 / 4,03 | 5,85 / 4,03 | 5,95 / 4,03 | 5,85 / 4,03 | 5,85 / 4,05 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 125 | 160 / 125 | 160 / 125 | 160 / 125 | 150 / 125 |
| | | SCOP | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| **Indoor unit** | | | **WH-ADC1216H6E5** | **WH-ADC1216H6E5** | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33 / 33 | 33 / 33 | 33 / 33 | 33 / 33 | 33 / 33 |
| Dimension / Net weight | H x W x D | mm / kg | 1800 x 598 x 717 / 124 | 1800 x 598 x 717 / 124 | 1800 x 598 x 717 / 126 | 1800 x 598 x 717 / 126 | 1800 x 598 x 717 / 126 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 36 / 152 | 36 / 152 | 36 / 152 | 36 / 152 | 36 / 152 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 6 | 6 | 9 | 9 | 9 |
| Recommended fuse | | A | 30 / 30 | 30 / 30 | 16 / 16 | 16 / 16 | 16 / 16 |
| Recommended cable size, supply 1 & 2 | | mm² | 3 x 4,0 / 3 x 4,0 | 3 x 4,0 / 3 x 4,0 | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| Water volume | | L | 185 | 185 | 185 | 185 | 185 |
| Maximum water temperature | | °C | 65 | 65 | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Tapping profile according EN16147 | | | L | L | L | L | L |
| DHW Tank ERP Average climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A | A / A | A / A |
| DHW Tank ERP Warm climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A | A / A | A / A |
| DHW Tank ERP Cold climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A | A / A | B / B |
| DHW Tank ERP Average climate ETA / SCOP | | ETA % / SCOP | 95 / 2,38 | 95 / 2,38 | 95 / 2,38 | 95 / 2,38 | 91 / 2,28 |
| DHW Tank ERP Warm climate ETA / SCOP | | ETA % / SCOP | 110 / 2,75 | 110 / 2,75 | 110 / 2,75 | 110 / 2,75 | 107 / 2,68 |
| DHW Tank ERP Cold climate ETA / SCOP | | ETA % / SCOP | 75 / 1,88 | 75 / 1,88 | 75 / 1,88 | 75 / 1,80 | 72 / 1,88 |
| **Outdoor unit** | | | **WH-UX09HE5** | **WH-UX12HE5** | **WH-UX09HE8** | **WH-UX12HE8** | **WH-UX16HE8** |
| Sound power full load | Heat / Cool | dB | 68 / 67 | 69 / 68 | 68 / 67 | 69 / 68 | 72 / 71 |
| Dimension / Net weight | H x W x D | mm / kg | 1340 x 900 x 320 / 101 | 1340 x 900 x 320 / 101 | 1340 x 900 x 320 / 108 | 1340 x 900 x 320 / 108 | 1340 x 900 x 320 / 118 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,85 / 5,951 | 2,85 / 5,951 | 2,85 / 5,951 | 2,85 / 5,951 | 2,90 / 6,055 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out) | | m / m | 3 ~ 30 / 20 | 3 ~ 30 / 20 | 3 ~ 30 / 20 | 3 ~ 30 / 20 | 3 ~ 30 / 20 |
| Pipe length for additional gas / Additional gas amount | | m / g/m | 10 / 50 | 10 / 50 | 10 / 50 | 10 / 50 | 10 / 50 |
| Operation range | Outdoor ambient | °C | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 | 20 ~ 60 / 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 62 | 64 | 62 | 64 | 65 |

| **Accessories** | |
|---|---|
| **PAW-ADC-PREKIT-1** | Pre installation kit for piping |
| **PAW-ADC-CV150** | Decorative magnetic side cover |
| **CZ-NS4P** | Additional functions PCB |

| **Accessories** | |
|---|---|
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

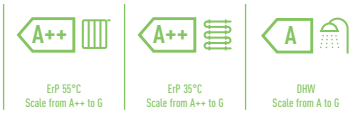
# Aquarea T-CAP All in One H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

• Works at temperatures as low as -28°C • Constant capacity up to -20°C • Reduced installation costs • Reduced installation time and minimised installation errors • Easy remote controller to set up • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)






**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|
| **Kit** | | | **KIT-AQC9HE8** | **KIT-AQC12HE8** | **KIT-AQC16HE8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,84 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 9,00 / 2,94 | 12,00 / 2,88 | 16,00 / 2,71 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,59 | 12,00 / 3,44 | 16,00 / 3,10 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,00 / 2,21 | 12,00 / 2,19 | 16,00 / 2,13 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,85 | 12,00 / 2,72 | 16,00 / 2,49 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 9,00 / 2,02 | 12,00 / 1,92 | 16,00 / 1,86 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 7,00 / 3,17 | 10,00 / 2,81 | 12,20 / 2,57 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 7,00 / 5,19 | 10,00 / 5,13 | 12,20 / 3,49 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 181 / 130 | 170 / 130 | 160 / 125 |
| | | SCOP | 4,60 / 3,33 | 4,33 / 3,33 | 4,08 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 235 / 158 | 231 / 158 | 231 / 159 |
| | | SCOP | 5,95 / 4,03 | 5,85 / 4,03 | 5,85 / 4,05 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 125 | 160 / 125 | 150 / 125 |
| | | SCOP | 4,08 / 3,20 | 4,08 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| **Indoor unit** | | | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** | **WH-ADC0916H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33 / 33 | 33 / 33 | 33 / 33 |
| Dimension / Net weight | H x W x D | mm / kg | 1800 x 598 x 717 / 126 | 1800 x 598 x 717 / 126 | 1800 x 598 x 717 / 126 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 36 / 152 | 36 / 152 | 36 / 152 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 9 | 9 | 9 |
| Recommended fuse | | A | 16 / 16 | 16 / 16 | 16 / 16 |
| Recommended cable size, supply 1 & 2 | | mm² | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| Water volume | | L | 185 | 185 | 185 |
| Maximum water temperature | | °C | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel |
| Tapping profile according EN16147 | | | L | L | L |
| DHW Tank ERP Average climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A |
| DHW Tank ERP Warm climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | A / A |
| DHW Tank ERP Cold climate efficiency rating [2] | | A to G / A+ to F | A / A | A / A | B / B |
| DHW Tank ERP Average climate ETA / SCOP | | ETA % / SCOP | 95 / 2,38 | 95 / 2,38 | 91 / 2,28 |
| DHW Tank ERP Warm climate ETA / SCOP | | ETA % / SCOP | 110 / 2,75 | 110 / 2,75 | 107 / 2,68 |
| DHW Tank ERP Cold climate ETA / SCOP | | ETA % / SCOP | 75 / 1,88 | 75 / 1,80 | 72 / 2,35 |
| **Outdoor unit** | | | **WH-UQ09HE8** | **WH-UQ12HE8** | **WH-UQ16HE8** |
| Sound power full load | Heat / Cool | dB | 61 / 63 | 62 / 64 | 65 / 68 |
| Dimension / Net weight | H x W x D | mm / kg | 1410 x 1283 x 320 / 151 | 1410 x 1283 x 320 / 151 | 1410 x 1283 x 320 / 161 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,85 / 5,951 | 2,85 / 5,951 | 2,99 / 6,243 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out) | | m / m | 3 ~ 30 / 20 | 3 ~ 30 / 20 | 3 ~ 30 / 20 |
| Pipe length for additional gas / Additional gas amount | | m / g/m | 10 / 50 | 10 / 50 | 10 / 50 |
| Operation range | Outdoor ambient | °C | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 55 | 54 | 58 |

| **Accessories** | |
|---|---|
| **PAW-ADC-PREKIT-1** | Pre installation kit for piping |
| **PAW-ADC-CV150** | Decorative magnetic side cover |
| **CZ-NS4P** | Additional functions PCB |

| **Accessories** | |
|---|---|
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# Aquarea High Performance Bi-bloc H Generation Single Phase. Heating and Cooling - SDC • R410A Gas

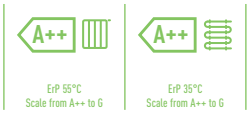


GOOD DESIGN AWARD 2017



## Technical focus

• Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency





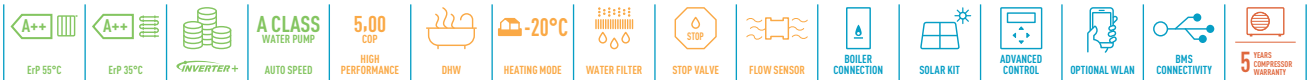

**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase Heating and Cooling | | | |
|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-WC03H3E5** | **KIT-WC05H3E5** | **KIT-WC07H3E5** | **KIT-WC09H3E5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 3,20 / 5,00 | 5,00 / 4,63 | 7,00 / 4,46 | 9,00 / 4,13 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 3,20 / 2,67 | 5,00 / 2,65 | 6,80 / 2,63 | 8,90 / 2,41 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 3,20 / 3,56 | 4,20 / 3,11 | 6,55 / 3,34 | 6,70 / 3,13 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 3,20 / 2,15 | 4,10 / 1,98 | 6,00 / 1,99 | 6,00 / 1,99 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 3,20 / 2,69 | 4,20 / 2,59 | 5,15 / 2,68 | 5,90 / 2,52 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 3,20 / 1,72 | 3,55 / 1,71 | 4,80 / 1,89 | 5,80 / 1,88 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 3,20 / 3,08 | 4,50 / 2,69 | 6,00 / 2,63 | 7,00 / 2,43 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 3,30 / 3,75 | 5,00 / 3,76 | 6,00 / 3,57 | 7,00 / 3,26 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 195 / 130 | 195 / 130 | 190 / 130 | 190 / 130 |
| | | SCOP | 4,95 / 3,33 | 4,95 / 3,33 | 4,83 / 3,33 | 4,83 / 3,33 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 244 / 163 | 244 / 163 | 225 / 160 | 225 / 160 |
| | | SCOP | 6,18 / 4,15 | 6,18 / 4,15 | 5,70 / 4,08 | 5,70 / 4,08 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 150 / 103 | 150 / 103 | 160 / 115 | 160 / 115 |
| | | SCOP | 3,83 / 2,65 | 3,83 / 2,65 | 4,08 / 2,95 | 4,08 / 2,95 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| **Indoor unit** | | | **WH-SDC03H3E5-1** | **WH-SDC05H3E5-1** | **WH-SDC07H3E5-1** | **WH-SDC09H3E5-1** |
| Sound pressure | Heat / Cool | dB(A) | 28 / 28 | 28 / 28 | 30 / 30 | 30 / 30 |
| Dimension | H x W x D | mm | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 |
| Net weight | | kg | 44 | 44 | 44 | 44 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 30 / 100 | 33 / 106 | 34 / 114 | 40 / 120 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 9,2 | 14,3 | 20,1 | 25,8 |
| Capacity of integrated electric heater | | kW | 3 | 3 | 3 | 3 |
| Recommended fuse | | A | 15 / 30 | 15 / 30 | 15 / 30 | 15 / 30 |
| Recommended cable size, supply 1 / 2 | | mm | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 |
| **Outdoor unit** | | | **WH-UD03HE5-1** | **WH-UD05HE5-1** | **WH-UD07HE5-1** | **WH-UD09HE5-1** |
| Sound power full load | Heat / Cool | dB | 64 / 65 | 65 / 66 | 68 / 66 | 69 / 68 |
| Dimension | H x W x D | mm | 622 x 824 x 298 | 622 x 824 x 298 | 795 x 900 x 320 | 795 x 900 x 320 |
| Net weight | | kg | 39 | 39 | 66 | 66 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,20 / 2,506 | 1,20 / 2,506 | 1,45 / 3,028 | 1,45 / 3,028 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 5/8 (15,88) | 1/4 (6,35) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 40 | 3 ~ 40 |
| Elevation difference (in/out) | | m | 5 | 5 | 30 | 30 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 20 | 20 | 30 | 30 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [2] | | dB | 52 | 58 | 57 | 59 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve Kit for inside of hydrokit |

| **Accessories** | |
|---|---|
| **CZ-NS4P** | Additional functions PCB |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# Aquarea High Performance Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling - SDC • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

· Very high energy savings A+++ (*) · Simple installation & maintenance · Special software for low consumption homes with minimum output temperature: 20°C · Works at temperatures as low as -20°C · Automatic Air purge valve · Display of the compressor frequency

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G



**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase Heating and Cooling | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-WC12H6E5** | **KIT-WC16H6E5** | **KIT-WC09H3E8** | **KIT-WC12H9E8** | **KIT-WC16H9E8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 12,00/4,74 | 16,00/4,28 | 9,00/4,84 | 12,00/4,74 | 16,00/4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 12,00/2,88 | 14,50/2,68 | 9,00/2,94 | 12,00/2,88 | 14,50/2,68 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 11,40/3,44 | 13,00/3,28 | 9,00/3,59 | 11,40/3,44 | 13,00/3,28 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,10/2,20 | 9,80/2,17 | 8,80/2,23 | 9,10/2,20 | 9,80/2,17 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 10,00/2,73 | 11,40/2,57 | 9,00/2,85 | 10,00/2,73 | 11,40/2,57 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 8,20/1,92 | 9,00/1,82 | 7,90/2,05 | 8,20/1,92 | 9,00/1,82 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 10,00/2,81 | 12,20/2,56 | 7,00/3,17 | 10,00/2,81 | 12,20/2,56 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 10,00/4,17 | 12,20/4,12 | 7,00/4,61 | 10,00/4,17 | 12,20/4,12 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 190/134 | 190/130 | 190/133 | 190/134 | 190/130 |
| | | SCOP | 4,83/3,43 | 4,83/3,33 | 4,83/3,40 | 4,83/3,43 | 4,83/3,33 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++/A++ | A++/A++ | A++/A++ | A++/A++ | A++/A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++/A++ | A+++/A++ | A+++/A++ | A+++/A++ | A+++/A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 245/159 | 245/169 | 245/159 | 245/159 | 245/169 |
| | | SCOP | 6,20/4,05 | 6,20/4,30 | 6,20/4,05 | 6,20/4,05 | 6,20/4,30 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++/A++ | A++/A++ | A++/A++ | A++/A++ | A++/A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++/A+++ | A+++/A+++ | A+++/A+++ | A+++/A+++ | A+++/A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 168/121 | 168/121 | 168/121 | 168/121 | 168/121 |
| | | SCOP | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 | 4,28/3,10 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++/A+ | A++/A+ | A++/A+ | A++/A+ | A++/A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++/A+ | A++/A+ | A++/A+ | A++/A+ | A++/A+ |
| **Indoor unit** | | | **WH-SDC12H6E5** | **WH-SDC16H6E5** | **WH-SDC09H3E8** | **WH-SDC12H9E8** | **WH-SDC16H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33/33 | 33/33 | 33/33 | 33/33 | 33/33 |
| Dimension | H x W x D | mm | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 |
| Net weight | | kg | 44 | 45 | 44 | 45 | 45 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min/Max) | W | 34/110 | 30/105 | 32/102 | 34/110 | 30/105 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 34,4 | 45,9 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 6 | 6 | 3 | 9 | 9 |
| Recommended fuse | | A | 30/30 | 30/30 | 15/30 | 15/30 | 15/30 |
| Recommended cable size, supply 1 / 2 | | mm | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 |
| **Outdoor unit** | | | **WH-UD12HE5** | **WH-UD16HE5** | **WH-UD09HE8** | **WH-UD12HE8** | **WH-UD16HE8** |
| Sound power full load | Heat / Cool | dB | 69/68 | 72/72 | 68/67 | 69/68 | 72/72 |
| Dimension | H x W x D | mm | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 |
| Net weight | | kg | 101 | 101 | 107 | 107 | 107 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 | 2,55/5,324 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 50 | 3 ~ 50 | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 | 50 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 | 20 ~ 55 / 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [2] | | dB | 65 | 65 | 63 | 65 | 66 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve Kit for inside of hydrokit |

| **Accessories** | |
|---|---|
| **CZ-NS4P** | Additional functions PCB |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

ErP 55°C · ErP 35°C · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 4,84 COP HIGH PERFORMANCE · DHW · -20°C HEATING MODE · WATER FILTER · STOP VALVE · FLOW SENSOR · BOILER CONNECTION · SOLAR KIT · ADVANCED CONTROL · OPTIONAL WLAN · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

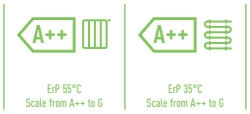
# Aquarea T-CAP Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling - SXC • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

• Very high energy savings A++ • Simple installation & maintenance • Constant capacity up to -20°C • Water temperature up to 60°C • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -28°C • Automatic Air purge valve • Display of the compressor frequency






**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase (Power to indoor) | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-WXC09H3E5** | **KIT-WXC12H6E5** | **KIT-WXC09H3E8** | **KIT-WXC12H9E8** | **KIT-WXC16H9E8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,84 | 12,00 / 4,74 | 9,00 / 4,84 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 9,00 / 2,94 | 12,00 / 2,88 | 9,00 / 2,94 | 12,00 / 2,88 | 16,00 / 2,71 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,59 | 12,00 / 3,44 | 9,00 / 3,59 | 12,00 / 3,44 | 16,00 / 3,10 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,00 / 2,21 | 12,00 / 2,19 | 9,00 / 2,21 | 12,00 / 2,19 | 16,00 / 2,13 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,85 | 12,00 / 2,72 | 9,00 / 2,85 | 12,00 / 2,72 | 16,00 / 2,49 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 9,00 / 2,02 | 12,00 / 1,92 | 9,00 / 2,02 | 12,00 / 1,92 | 16,00 / 1,86 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 7,00 / 3,17 | 10,00 / 2,81 | 7,00 / 3,17 | 10,00 / 2,81 | 12,20 / 2,57 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 7,00 / 5,19 | 10,00 / 5,13 | 7,00 / 5,19 | 10,00 / 5,13 | 12,20 / 3,49 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 181 / 130 | 170 / 130 | 181 / 130 | 170 / 130 | 160 / 125 |
| | | SCOP | 4,60 / 3,33 | 4,33 / 3,33 | 4,60 / 3,33 | 4,33 / 3,33 | 4,08 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 235 / 158 | 231 / 158 | 235 / 158 | 231 / 158 | 231 / 159 |
| | | SCOP | 5,95 / 4,03 | 5,85 / 4,03 | 5,95 / 4,03 | 5,85 / 4,03 | 5,85 / 4,05 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 125 | 160 / 125 | 160 / 125 | 160 / 125 | 150 / 125 |
| | | SCOP | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| **Indoor unit** | | | **WH-SXC09H3E5** | **WH-SXC12H6E5** | **WH-SXC09H3E8** | **WH-SXC12H9E8** | **WH-SXC16H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33 / 33 | 33 / 33 | 33 / 33 | 33 / 33 | 33 / 33 |
| Dimension | H x W x D | mm | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 |
| Net weight | | kg | 43 | 43 | 43 | 44 | 45 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 32 / 102 | 34 / 110 | 32 / 102 | 34 / 110 | 30 / 105 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 3 | 6 | 3 | 9 | 9 |
| Recommended fuse | | A | 30 / 30 | 30 / 30 | 16 / 16 | 16 / 16 | 16 / 16 |
| Recommended cable size, supply 1 / 2 | | mm | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 5 x 1,5 / 3 x 1,5 | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| **Outdoor unit** | | | **WH-UX09HE5** | **WH-UX12HE5** | **WH-UX09HE8** | **WH-UX12HE8** | **WH-UX16HE8** |
| Sound power full load | Heat / Cool | dB | 68 / 67 | 69 / 68 | 68 / 67 | 69 / 68 | 72 / 71 |
| Dimension | H x W x D | mm | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 |
| Net weight | | kg | 101 | 101 | 108 | 108 | 118 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,85 / 5,951 | 2,85 / 5,951 | 2,85 / 5,951 | 2,85 / 5,951 | 2,90 / 6,055 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 | 50 |
| Operation range | Outdoor ambient | °C | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [2] | | dB | 62 | 64 | 62 | 64 | 65 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve Kit for inside of hydrokit |

| **Accessories** | |
|---|---|
| **CZ-NS4P** | Additional functions PCB |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).




INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

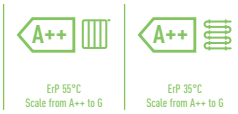
# Aquarea T-CAP Bi-bloc H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling - SQC • R410A Gas



GOOD DESIGN AWARD 2017

## Technical focus

· Very high energy savings A++ · Noise reduction of 7dB is based on power level when heating mode · With Quite mode we can reach 10 ~ 12dB(A) · Constant capacity up to -20°C · Water temperature up to 60°C · Special software for low consumption homes with minimum output temperature: 20°C · Works at temperatures as low as -28°C · Display of the compressor frequency






**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Three Phase (Power to indoor) | | |
|---|---|---|---|---|---|
| **Kit** | | | **KIT-WQC09H3E8** | **KIT-WQC12H9E8** | **KIT-WQC16H9E8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,84 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 9,00 / 2,94 | 12,00 / 2,88 | 16,00 / 2,71 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,59 | 12,00 / 3,44 | 16,00 / 3,10 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,00 / 2,21 | 12,00 / 2,19 | 16,00 / 2,13 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,85 | 12,00 / 2,72 | 16,00 / 2,49 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 9,00 / 2,02 | 12,00 / 1,92 | 16,00 / 1,86 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 7,00 / 3,17 | 10,00 / 2,81 | 12,20 / 2,57 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 7,00 / 5,19 | 10,00 / 5,13 | 12,20 / 3,49 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 181 / 130 | 170 / 130 | 160 / 125 |
| | | SCOP | 4,60 / 3,33 | 4,33 / 3,33 | 4,08 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 235 / 158 | 231 / 158 | 231 / 159 |
| | | SCOP | 5,95 / 4,03 | 5,85 / 4,03 | 5,85 / 4,05 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 125 | 160 / 125 | 150 / 125 |
| | | SCOP | 4,08 / 3,20 | 4,08 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A++ | A++ / A++ | A++ / A++ |
| **Indoor unit** | | | **WH-SQC09H3E8** | **WH-SQC12H9E8** | **WH-SQC16H9E8** |
| Sound pressure | Heat / Cool | dB(A) | 33 / 33 | 33 / 33 | 33 / 33 |
| Dimension | H x W x D | mm | 892 x 500 x 340 | 892 x 500 x 340 | 892 x 500 x 340 |
| Net weight | | kg | 43 | 44 | 45 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 32 / 102 | 34 / 110 | 30 / 105 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 3 | 9 | 9 |
| Recommended fuse | | A | 15 / 30 | 15 / 30 | 15 / 30 |
| Recommended cable size, supply 1 / 2 | | mm | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5 |
| **Outdoor unit** | | | **WH-UQ09HE8** | **WH-UQ12HE8** | **WH-UQ16HE8** |
| Sound power full load | Heat / Cool | dB | 61 / 63 | 62 / 64 | 65 / 68 |
| Dimension | H x W x D | mm | 1410 x 1283 x 320 | 1410 x 1283 x 320 | 1410 x 1283 x 320 |
| Net weight | | kg | 151 | 151 | 161 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,85 / 5,951 | 2,85 / 5,951 | 2,99 / 6,243 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) | | m | 20 | 20 | 20 |
| Pipe length for additional gas | | m | 10 | 10 | 10 |
| Additional gas amount | | g/m | 50 | 50 | 50 |
| Operation range | Outdoor ambient | °C | -28 ~ +35 | -28 ~ +35 | -28 ~ +35 |
| Water outlet | Heat / Cool | °C | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 | 20 - 60 / 5 - 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [2] | | dB | 55 | 54 | 58 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve Kit for inside of hydrokit |

| **Accessories** | |
|---|---|
| **CZ-NS4P** | Additional functions PCB |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).



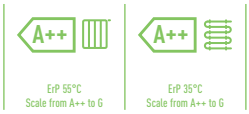

INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

# Aquarea High Performance Mono-bloc H Generation Single Phase. Heating and Cooling - MDC • R410A Gas

## Technical focus

- Optional Smartphone control
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C







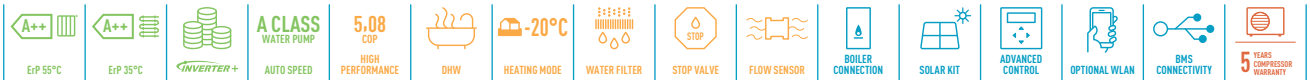

**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase Heating and Cooling | | | | |
|---|---|---|---|---|---|---|---|
| **Outdoor unit** | | | **WH-MDC05H3E5** | **WH-MDC07H3E5** | **WH-MDC09H3E5** | **WH-MDC12H6E5** | **WH-MDC16H6E5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 5,00 / 5,08 | 7,00 / 4,52 | 9,00 / 4,29 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 5,00 / 2,84 | 7,00 / 2,83 | 9,00 / 2,72 | 12,00 / 2,93 | 14,50 / 2,72 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 4,80 / 3,36 | 6,60 / 3,30 | 6,80 / 3,18 | 11,40 / 3,44 | 13,00 / 3,28 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 4,00 / 2,33 | 6,30 / 2,22 | 6,30 / 2,13 | 9,10 / 2,23 | 9,80 / 2,21 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 4,70 / 2,85 | 5,50 / 2,70 | 6,40 / 2,60 | 10,00 / 2,73 | 11,40 / 2,57 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 4,30 / 1,89 | 5,00 / 1,82 | 5,80 / 1,78 | 8,20 / 1,95 | 9,00 / 1,84 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 4,50 / 3,28 | 6,00 / 2,78 | 7,00 / 2,60 | 10,00 / 2,81 | 12,20 / 2,56 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 5,10 / 5,10 | 6,00 / 3,87 | 7,00 / 3,59 | 10,00 / 4,65 | 12,20 / 4,12 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 199 / 139 | 190 / 130 | 190 / 130 | 190 / 134 | 190 / 130 |
| | | SCOP | 5,05 / 3,55 | 4,83 / 3,33 | 4,83 / 3,33 | 4,83 / 3,43 | 4,83 / 3,33 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 237 / 161 | 225 / 160 | 225 / 160 | 245 / 159 | 245 / 169 |
| | | SCOP | 6,00 / 4,10 | 5,70 / 4,08 | 5,70 / 4,08 | 6,20 / 4,05 | 6,20 / 4,30 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 115 | 160 / 115 | 160 / 115 | 168 / 121 | 168 / 121 |
| | | SCOP | 4,08 / 2,95 | 4,08 / 2,95 | 4,08 / 2,95 | 4,28 / 3,10 | 4,28 / 3,10 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Sound power full load | Heat / Cool | dB | 65 / 65 | 68 / 66 | 69 / 67 | 69 / 68 | 72 / 72 |
| Dimension | H x W x D | mm | 865 x 1283 x 320 | 865 x 1283 x 320 | 865 x 1283 x 320 | 1410 x 1283 x 320 | 1410 x 1283 x 320 |
| Net weight | | kg | 94 | 104 | 104 | 140 | 140 |
| Refrigerant (R410A) / $CO_2$ Eq. [2] | | kg / T | 1,30 / 2714 | 1,35 / 2819 | 1,35 / 2819 | 2,10 / 4,385 | 2,10 / 4,385 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 | R 1 |
| Pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 34 / 96 | 36 / 100 | 39 / 108 | 34 / 110 | 38 / 120 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 14,3 | 20,1 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 3 | 3 | 3 | 6 | 6 |
| Input Power | Heat | kW | 0,985 | 1,55 | 2,10 | 2,53 | 3,74 |
| | Cool | kW | 1,37 | 2,16 | 2,69 | 3,56 | 4,76 |
| Running and Starting current | Heat | A | 4,7 | 7,2 | 9,6 | 11,7 | 16,9 |
| | Cool | A | 6,3 | 9,9 | 12,2 | 16,2 | 21,5 |
| Current 1 | | A | 13,0 | 21,0 | 22,9 | 24,0 | 26,0 |
| Current 2 | | A | 13,0 | 13,0 | 13,0 | 26,0 | 26,0 |
| Recommended fuse | | A | 30 / 15 | 30 / 15 | 30 / 16 | 30 / 30 | 30 / 30 |
| Recommended cable size, supply 1 / 2 | | mm² | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat | °C | 20 ~ 55 | 20 ~ 55 | 20 ~ 55 | 25 ~ 55 | 25 ~ 55 |
| | Cool | °C | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 57 | 57 | 61 | 65 | 66 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | 3 way valve |

| **Accessories** | |
|---|---|
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MDC models are hermetically sealed. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).




INTERNET CONTROL: Optional.

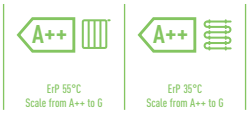
# Aquarea T-CAP Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A Gas

## Technical focus

- Optional Smartphone control
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C










**CZ-TAW1**
Cloud connection. For user control and installer remote maintenance.

| | | | Single Phase | | Three Phase | | |
|---|---|---|---|---|---|---|---|
| **Outdoor unit** | | | **WH-MXC09H3E5** | **WH-MXC12H6E5** | **WH-MXC09H3E8** | **WH-MXC12H9E8** | **WH-MXC16H9E8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,84 | 12,00 / 4,74 | 9,00 / 4,84 | 12,00 / 4,74 | 16,00 / 4,28 |
| Heating capacity / COP (A +7°C, W 55°C) | | kW / COP | 9,00 / 2,94 | 12,00 / 2,88 | 9,00 / 2,94 | 12,00 / 2,88 | 16,00 / 2,71 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,59 | 12,00 / 3,44 | 9,00 / 3,59 | 12,00 / 3,44 | 16,00 / 3,10 |
| Heating capacity / COP (A +2°C, W 55°C) | | kW / COP | 9,00 / 2,21 | 12,00 / 2,19 | 9,00 / 2,21 | 12,00 / 2,19 | 16,00 / 2,13 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,85 | 12,00 / 2,72 | 9,00 / 2,85 | 12,00 / 2,72 | 16,00 / 2,49 |
| Heating capacity / COP (A -7°C, W 55°C) | | kW / COP | 9,00 / 2,02 | 12,00 / 1,92 | 9,00 / 2,02 | 12,00 / 1,92 | 16,00 / 1,86 |
| Cooling capacity / EER (A 35°C, W 7°C) | | kW / EER | 7,00 / 3,17 | 10,00 / 2,81 | 7,00 / 3,17 | 10,00 / 2,81 | 12,20 / 2,56 |
| Cooling capacity / EER (A 35°C, W 18°C) | | kW / EER | 7,00 / 5,19 | 10,00 / 5,13 | 7,00 / 5,19 | 10,00 / 5,13 | 12,20 / 3,49 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 181 / 130 | 170 / 130 | 181 / 130 | 170 / 130 | 160 / 125 |
| | | SCOP | 4,60 / 3,33 | 4,33 / 3,33 | 4,60 / 3,33 | 4,33 / 3,33 | 4,08 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 235 / 158 | 231 / 158 | 235 / 158 | 231 / 158 | 231 / 159 |
| | | SCOP | 5,95 / 4,03 | 5,85 / 4,03 | 5,95 / 4,03 | 5,85 / 4,03 | 5,85 / 4,05 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 160 / 125 | 160 / 125 | 160 / 125 | 160 / 125 | 150 / 125 |
| | | SCOP | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 4,08 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Sound power full load | Heat / Cool | dB | 68 / 67 | 69 / 68 | 68 / 67 | 69 / 68 | 72 / 71 |
| Dimension | H x W x D | mm | 1410 x 1283 x 320 | 1410 x 1283 x 320 | 1410 x 1283 x 320 | 1410 x 1283 x 320 | 1410 x 1283 x 320 |
| Net weight | | kg | 142 | 142 | 151 | 151 | 164 |
| Refrigerant (R410A) / $CO_2$ Eq. [2] | | kg / T | 2,30 / 4,802 | 2,30 / 4,802 | 2,30 / 4,802 | 2,30 / 4,802 | 2,35 / 4,907 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 | R 1 |
| Pump | Number of speeds | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| | Input power (Min / Max) | W | 32 / 102 | 34 / 110 | 32 / 102 | 34 / 110 | 38 / 120 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 25,8 | 34,4 | 45,9 |
| Capacity of integrated electric heater | | kW | 3 | 6 | 3 | 9 | 9 |
| Input Power | Heat | kW | 1,86 | 2,53 | 1,86 | 2,53 | 3,74 |
| | Cool | kW | 2,21 | 3,56 | 2,21 | 3,56 | 4,76 |
| Running and Starting current | Heat | A | 8,8 | 11,7 | 3,0 | 4,0 | 5,7 |
| | Cool | A | 10,4 | 16,5 | 3,5 | 5,3 | 7,1 |
| Current 1 | | A | 29,0 | 29,0 | 14,7 | 11,9 | 15,5 |
| Current 2 | | A | 13,0 | 26,0 | 13,0 | 13,0 | 13,0 |
| Recommended fuse | | A | 30 / 30 | 30 / 30 | 16 / 16 | 16 / 16 | 16 / 16 |
| Recommended cable size, supply 1 / 2 | | mm² | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 5 x 1,5 / 3 x 1,5 | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat | °C | 20 ~ 60 | 20 ~ 60 | 20 ~ 60 | 20 ~ 60 | 20 ~ 60 |
| | Cool | °C | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 | 5 ~ 20 |
| 3rd Party tested Sound power at Quiet Mode 3 [3] | | dB | 62 | 64 | 62 | 64 | 65 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |
| **PAW-3WYVLV-SI** | 3 way valve |

| **Accessories** | |
|---|---|
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **CZ-TAW1** | Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MXC models are hermetically sealed. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).




INTERNET CONTROL: Optional.

# Aquarea HT Bi-bloc F Generation Single Phase / Three Phase. Heating Only - SHF • R407C Gas



## Technical focus

· Remote controller functions · Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager · Optional Smartphone control · Maximum hydraulic module output temperature: 65°C · Works at temperatures as low as -20°C · Maximum 20m rise between the outdoor unit and the hydraulic module

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G

| | | | Single Phase (Power to indoor) | | Three Phase (Power to indoor) | |
|---|---|---|---|---|---|---|
| **Kit** | | | **KIT-WHF09F3E5** | **KIT-WHF12F6E5** | **KIT-WHF09F3E8** | **KIT-WHF12F9E8** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00 / 4,64 | 12,00 / 4,46 | 9,00 / 4,64 | 12,00 / 4,46 |
| Heating capacity / COP (A +7°C, W 65°C) | | kW / COP | 9,00 / 2,48 | 12,00 / 2,41 | 9,00 / 2,48 | 12,00 / 2,41 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00 / 3,45 | 12,00 / 3,26 | 9,00 / 3,45 | 12,00 / 3,26 |
| Heating capacity / COP (A +2°C, W 65°C) | | kW / COP | 9,00 / 2,06 | 10,30 / 2,01 | 9,00 / 2,06 | 10,30 / 2,01 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00 / 2,74 | 12,00 / 2,52 | 9,00 / 2,74 | 12,00 / 2,52 |
| Heating capacity / COP (A -7°C, W 65°C) | | kW / COP | 9,00 / 1,79 | 9,60 / 1,77 | 9,00 / 1,79 | 9,60 / 1,77 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 153 / 125 | 150 / 125 | 153 / 125 | 150 / 125 |
| | | SCOP | 3,90 / 3,20 | 3,83 / 3,20 | 3,90 / 3,20 | 3,83 / 3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 191 / 156 | 188 / 156 | 191 / 156 | 188 / 156 |
| | | SCOP | 4,85 / 3,98 | 4,78 / 3,98 | 4,85 / 3,98 | 4,78 / 3,98 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++ / A++ | A++ / A++ | A++ / A++ | A++ / A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 137 / 116 | 134 / 113 | 137 / 116 | 134 / 113 |
| | | SCOP | 3,50 / 2,98 | 3,43 / 2,90 | 3,50 / 2,98 | 3,43 / 2,90 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| **Indoor unit** | | | **WH-SHF09F3E5** | **WH-SHF12F6E5** | **WH-SHF09F3E8** | **WH-SHF12F9E8** |
| Sound pressure | | dB(A) | 33 | 33 | 33 | 33 |
| Dimension | H x W x D | mm | 892 x 502 x 353 | 892 x 502 x 353 | 892 x 502 x 353 | 892 x 502 x 353 |
| Net weight | | kg | 46 | 47 | 47 | 48 |
| Water pipe connector | | Inch | R 1 | R 1 | R 1 | R 1 |
| A class pump | Number of speeds | | 7 | 7 | 7 | 7 |
| | Input power (Min / Max) | W | 38 / 100 | 40 / 106 | 38 / 100 | 40 / 106 |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 | 25,8 | 34,4 |
| Capacity of integrated electric heater | | kW | 3 | 6 | 3 | 9 |
| Recommended fuse | | A | 30 / 30 | 30 / 30 | 30 / 16 | 30 / 16 |
| Recommended cable size, supply 1 / 2 | | mm | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 5 x 1,5 / 3 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| **Outdoor unit** | | | **WH-UH09FE5** | **WH-UH12FE5** | **WH-UH09FE8** | **WH-UH12FE8** |
| Sound power part load | | dB | — | — | — | — |
| Sound power full load | | dB | 66 | 67 | 66 | 67 |
| Dimension | H x W x D | mm | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 |
| Net weight | | kg | 104 | 104 | 110 | 110 |
| Refrigerant (R407C) / $CO_2$ Eq. | | kg / T | 2,90 / 5,145 | 2,90 / 5,145 | 2,90 / 5,145 | 2,90 / 5,145 |
| Pipe diameter | Liquid / Gas | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) | | m | 20 | 20 | 20 | 20 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 70 | 70 | 70 | 70 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat | °C | 25 ~ 65 | 25 ~ 65 | 25 ~ 65 | 25 ~ 65 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |

| **Accessories** | |
|---|---|
| **PAW-3WYVLV-SI** | External 3 way valve |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **PA-AW-WIFI-1TE** | WLAN interface |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1 Scale from A++ to G and from A+++ to D from 26th September 2019.

A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP 7 SPEEDS | 65°C OUTPUT WATER HIGH TEMPERATURE | DHW | -20°C HEATING MODE | BOILER CONNECTION | SOLAR KIT | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.

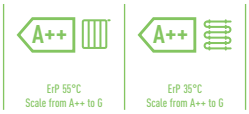
# Aquarea HT Mono-bloc G Generation
# Single Phase.
# Heating Only - MHF • R407C Gas

## Technical focus

- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager
- Optional Smartphone control
- Maximum hydraulic module output temperature: 65°C
- Works at temperatures as low as -20°C








| | | | Single Phase | |
|---|---|---|---|---|
| **Outdoor unit** | | | **WH-MHF09G3E5** | **WH-MHF12G6E5** |
| Heating capacity / COP (A +7°C, W 35°C) | | kW / COP | 9,00/4,64 | 12,00/4,46 |
| Heating capacity / COP (A +7°C, W 65°C) | | kW / COP | 9,00/2,48 | 12,00/2,41 |
| Heating capacity / COP (A +2°C, W 35°C) | | kW / COP | 9,00/3,45 | 12,00/3,26 |
| Heating capacity / COP (A +2°C, W 65°C) | | kW / COP | 9,00/2,06 | 10,30/2,01 |
| Heating capacity / COP (A -7°C, W 35°C) | | kW / COP | 9,00/2,74 | 12,00/2,52 |
| Heating capacity / COP (A -7°C, W 65°C) | | kW / COP | 9,00/1,79 | 9,60/1,77 |
| Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C) | | ETA % | 153/125 | 150/125 |
| | | SCOP | 3,90/3,20 | 3,83/3,20 |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A++ to G | A++/A++ | A++/A++ |
| Energy Class Heating Average Climate (W35°C / W55°C) [1] | | A+++ to D | A+++/A++ | A+++/A++ |
| Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C) | | ETA % | 191/156 | 188/156 |
| | | SCOP | 4,85/3,98 | 4,78/3,98 |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A++ to G | A++/A++ | A++/A++ |
| Energy Class Heating Warm Climate (W35°C / W55°C) | | A+++ to D | A+++/A+++ | A+++/A+++ |
| Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C) | | ETA % | 137/116 | 134/113 |
| | | SCOP | 3,50/2,98 | 3,43/2,90 |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A++ to G | A++/A+ | A++/A+ |
| Energy Class Heating Cold Climate (W35°C / W55°C) | | A+++ to D | A++/A+ | A++/A+ |
| Sound power part load | | dB | — | — |
| Sound power full load | | dB | 68 | 69 |
| Dimension | H x W x D | mm | 1410 x 1283 x 320 | 1410 x 1283 x 320 |
| Net weight | | kg | 151 | 151 |
| Refrigerant (R407C) / $CO_2$ Eq. [2] | | kg / T | 1,92/3,406 | 1,92/3,406 |
| Water pipe connector | | Inch | R1 | R1 |
| Pump | Number of speeds | | 7 | 7 |
| | Input power (Min/Max) | W | — | — |
| Heating water flow (ΔT=5 K. 35°C) | | L/min | 25,8 | 34,4 |
| Capacity of integrated electric heater | | kW | 3 | 6 |
| Input Power | | kW | 1,94 | 2,69 |
| Running and Starting current | | A | 9,3 | 12,8 |
| Current 1 | | A | 28,5 | 29,0 |
| Current 2 | | A | 13,0 | 26,0 |
| Recommended fuse | | A | 30/30 | 30/30 |
| Recommended cable size, supply 1 / 2 | | mm² | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 |
| Operation range | Outdoor ambient | °C | -20 ~ +35 | -20 ~ +35 |
| Water outlet | Heat | °C | 25 ~ 65 | 25 ~ 65 |

| **Accessories** | |
|---|---|
| **PAW-TD20C1E5** | Tank 200L - Stainless steel |
| **PAW-TD30C1E5** | Tank 300L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300L - Enamelled |

| **Accessories** | |
|---|---|
| **PAW-3WYVLV-SI** | External 3 way valve |
| **PAW-BTANK50L-1** | Buffer tank 50L |
| **PA-AW-WIFI-1TE** | WLAN interface |
| **PAW-A2W-RTWIRED** | Room thermostat |

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1 Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MHF models are hermetically sealed.



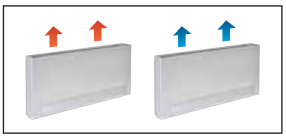

INTERNET CONTROL: Optional.

# AQUAREA AIR

AQUAREA AIR







| | | PAW-AAIR-200-2 | | | PAW-AAIR-700-2 | | | PAW-AAIR-900-2 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Air flow** | **Speed** | **Min** | **Med** | **Max** | **Min** | **Med** | **Max** | **Min** | **Med** | **Max** |
| **Heating mode** | | | | | | | | | | |
| Total heating capacity | W | 217,00 | 470,00 | 570,00 | 708,00 | 1032,00 | 1188,00 | 886,00 | 1420,00 | 1703,00 |
| Water flow | kg/h | 37,30 | 80,80 | 98,00 | 121,80 | 177,50 | 204,30 | 152,40 | 244,20 | 292,90 |
| Water pressure drop | kPa | 0,40 | 2,00 | 2,90 | 0,30 | 0,80 | 1,00 | 0,50 | 1,60 | 2,20 |
| Inlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Outlet water temperature | °C | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Inlet air temperature | °C | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 |
| Outlet air temperature | °C | 38,90 | 32,00 | 30,00 | 33,30 | 31,80 | 30,60 | 30,20 | 31,10 | 30,60 |
| **Cooling mode** | | | | | | | | | | |
| Total cooling capacity | W | 237,00 | 345,00 | 555,00 | 756,00 | 1039,00 | 1204,00 | 1153,00 | 1518,00 | 1746,00 |
| Sensible cooling capacity | W | 230,00 | 314,00 | 504,00 | 646,00 | 903,00 | 1058,00 | 1061,00 | 1384,00 | 1598,00 |
| Water flow | kg/h | 40,00 | 59,00 | 95,00 | 129,00 | 178,00 | 207,00 | 198,00 | 261,00 | 300,00 |
| Water pressure drop | kPa | 0,40 | 2,00 | 2,90 | 1,00 | 2,00 | 2,00 | 6,00 | 9,00 | 12,00 |
| Inlet water temperature | °C | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Outlet water temperature | °C | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Inlet air temperature | °C | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 |
| Outlet air temperature | °C | 15,00 | 17,00 | 18,00 | 14,00 | 16,00 | 17,00 | 16,00 | 17,00 | 18,00 |
| Relative humidity of inlet air | % | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| Air flow | m³/min | 0,90 | 1,90 | 2,70 | 2,60 | 4,20 | 5,30 | 4,10 | 6,10 | 7,70 |
| Maximum input power | W | 7,00 | 9,00 | 13,00 | 14,00 | 18,00 | 22,00 | 16,00 | 20,00 | 24,00 |
| Sound pressure | dB(A) | 23 | 33 | 40 | 24 | 36 | 42 | 25 | 36 | 44 |
| Dimension (H x W x D) | mm | | 735 x 579 x 129 | | | 935 x 579 x 129 | | | 1135 x 579 x 129 | |
| Net weight | kg | | 17 | | | 20 | | | 23 | |
| 3 ways valve included | | | Yes | | | Yes | | | Yes | |
| Touch screen thermostat | | | Yes | | | Yes | | | Yes | |

## Super low temperature radiators for heat pump application

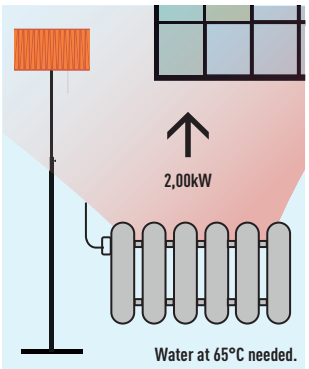
**The slimline Panasonic Aquarea Air radiators deliver high efficiency climate control.**

With a depth of just under 13cm they are at the cutting edge of the market. Blending easily into the home, Aquarea Air's elegant design and product refinements are clear to see in every detail.

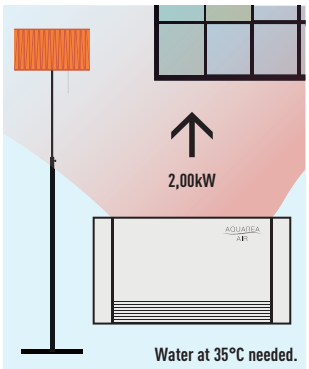
Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.



With standard cast radiators.




With Aquarea Air.




## Technical focus:

- High heating capacity
- 3 fan speeds and capacities
- Exclusive design
- Extremely compact (only 12,9cm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 radiators installed)
- Touch screen thermostat

**All temperature curves and capacity are available on www.panasonicproclub.com**

# FAN COILS





NEW 2019



**PAW-FC-303TC**
Optional Controller.
Wired remote controller.



**PAW-FC-RC1**
Optional Controller.
Wired remote controller.

| | | | Compact units | | | | | | | | High Static Pressure |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Left side connection** | | | PAW-FC-D11-1 | PAW-FC-D15-1 | PAW-FC-D24-1 | PAW-FC-D28-1 | PAW-FC-D40-1 | PAW-FC-D55-1 | PAW-FC-D65-1 | PAW-FC-D90-1 | PAW-FC-H150 |
| **Right side connection** | | | PAW-FC-D11-1-R | PAW-FC-D15-1-R | PAW-FC-D24-1-R | PAW-FC-D28-1-R | PAW-FC-D40-1-R | PAW-FC-D55-1-R | PAW-FC-D65-1-R | PAW-FC-D90-1-R | PAW-FC-H150-R |
| Total cooling capacity [1] | Med/S-Hi | kW | 1,0/1,5 | 1,2/1,7 | 2,0/2,5 | 2,4/3,2 | 3,2/4,6 | 4,6/5,8 | 6,1/7,3 | 6,1/8,1 | 11,9/14,8 |
| Sensible cooling capacity [1] | Med/S-Hi | kW | 0,8/1,1 | 0,9/1,3 | 1,5/1,9 | 1,8/2,3 | 2,2/3,3 | 3,3/4,5 | 4,3/5,1 | 4,6/6,3 | 9,6/12,9 |
| Heating capacity [1] | Med/S-Hi | kW | 1,4/2,0 | 1,5/2,2 | 2,4/3,1 | 2,9/4,0 | 4,1/5,7 | 5,3/7,1 | 7,9/9,3 | 8,1/11,6 | 14,9/19,9 |
| Power consumption | S-Lo/Med/S-Hi | W | 14/24/36 | 10/18/29 | 16/37/45 | 15/37/56 | 28/55/72 | 37/75/105 | 53/100/147 | 90/112/188 | 180/421/675 |
| Fuse rating | | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 |
| Dimensions (including pan and electrical box) | H x W x D | mm | 220x570x430 | 220x570x430 | 220x753x430 | 220x938x430 | 220x1122x430 | 220x1307x430 | 220x1121x530 | 220x1316x530 | 356x1600x798 |
| Weight (without water content) | | kg | 13 | 13 | 15 | 20 | 22 | 26 | 27 | 38 | 63 |
| Sound power global | S-Lo/Med/S-Hi | dB(A) | 33/40/49 | 31/43/50 | 30/45/52 | 30/44/51 | 34/46/56 | 38/51/58 | 43/56/61 | 50/55/64 | 52/64/71 |
| Sound pressure global | S-Lo/Med/S-Hi | dB(A) | 24/31/40 | 22/34/41 | 21/36/43 | 21/35/42 | 25/37/47 | 29/42/49 | 34/47/52 | 41/46/55 | 31/45/51 |
| Static pressure | Max | Pa | 30 | 30 | 50 | 50 | 70 | 70 | 70 | 70 | 110 |
| Airflow [1] | Med/S-Hi | m³/h | 190/283 | 179/265 | 274/390 | 357/499 | 486/716 | 640/933 | 893/1064 | 936/1397 | 2112/3176 |
| Water pressure drop | Med/S-Hi | kPa | 19,5/39,2 | 3,9/6,3 | 19,3/28,8 | 17,1/28 | 22,8/46,9 | 37,4/60,2 | 15,4/21,5 | 19,3/32,5 | 19,8/26,1 |
| Fan speeds | | | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds |
| Fan motor and total speeds | | | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds |
| Drain pan and Air filter | | | Included | Included | Included | Included | Included | Included | Included | Included | Included |
| Water connections | | Inch | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 1 |

| Accessories | |
|---|---|
| **PAW-FC-RC1** | Advanced wired control for Fan Coil |
| **PAW-FC-303TC** | Wired remote controller |
| **PAW-FC-2WY-11/55-1** | 2 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1) |
| **PAW-FC-2WY-65/90-1** | 2 way valve + drain pan (for PAW-FC-D65/90-1) |

| Accessories | |
|---|---|
| **PAW-FC-2WY-150** | 2 way valve (for PAW-FC-H150) |
| **PAW-FC-3WY-11/55-1** | 3 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1) |
| **PAW-FC-3WY-65/90-1** | 3 way valve + drain pan (for PAW-FC-D65/90-1) |
| **PAW-FC-3WY-150** | 3 way valve (for PAW-FC-H150) |

1) Airflow and capacity at 0Pa of static pressure. * Performances based on: Cooling: Air: 27°C DB / 19°C WB, Chilled water: 7°C / 12°C - Heating: Air: 20°C DB, Hot water: 50°C / 45°C.



## New range of Fan Coil units

Easy to install, improved sound level and performance. New Fan Coil range consist on one compact ducted range ideal for residential and commercial use and one model with high static pressure for commercial applications. The range certified by Eurovent includes drain pan and filter and are equipped with a low consumption fan motor.
The new D type is even more flexible thanks to L Drain pan, same unit can be installed in both Horizontal or in Vertical position.

## Fan Coil controller PAW-FC-RC1

This advance control can bring higher level of comfort in heating. The sensor can be used as water flow sensor, stopping the fan when low water temperature, avoiding cold drafts in winter.
Also is ready to use J Generation new feature of defrost mode and stop the Fan Coil.

**Features:**

- Room thermostat
- 3 outputs, 230V relays for fan control
- 2 outputs, 230V relays for heating / cooling control
- Modbus RTU slave
- 1 DI for presses detection (key card switch)
- 1 AI for sensor

**1** Innovation for an optimum comfort

**2** Low energy consumption fan

**3** Quality and efficient Coil

**4** Flexible vertical - horizontal installation

# DHW STAND ALONE



## The New DHW Stand Alone is a highly efficient wall-mounted heat pump water heater

This space-saving wall-mounted solution is one of the most efficient models available, designed as a perfect replacement for the electric water heater. The wall-mounted installation, fast heat-up time, and auto function for smart piloting all guarantee customer comfort.

**Benefits:**

- A+ Highly efficient wall mounted Domestic Hot Water Heat Pump
- Provides reduced power consumption by 75% compared with traditional electric water heater
- Multilingual and End-user friendly Remote Controller
- Digital control panel
- Energy consumption monitoring
- Different modes of operation based on end-user needs
- Mode AUTO: Intelligent Temperature Set Point, thanks to monitoring hot water usage
- Mode BOOST, Mode ECO and Mode ABSENCE
- Photovoltaic function
- Compatible with ducted fresh air intake installations



NEW 2019

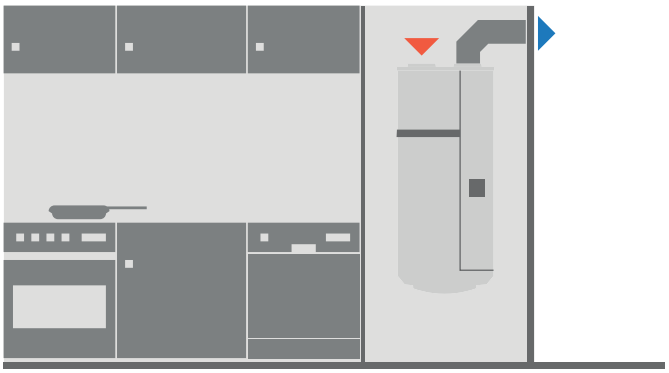
| Model | | Wall mounted | |
|---|---|---|---|
| **Reference** | | **PAW-DHW100W** | **PAW-DHW150W** |
| Nominal capacity | L | 100 | 150 |
| Dimensions (H x W x D) | mm | 1234 x 522 x 538 | 1557 x 522 x 538 |
| Empty weight | kg | 57 | 66 |
| Hot and cold connection | | 3/4" M | 3/4" M |
| Anticorrosion system | | Magnesium | Magnesium |
| Rated water pressure | bar | 8 | 8 |
| Electrical connection | V/Hz | 230/50 | 230/50 |
| Total maximum power | W | 1550 | 1950 |
| Maximal power heat pump | W | 350 | 350 |
| Power electric heating element | W | 1200 | 1600 |
| Heat pump water temperature range | °C | 50 ~ 62 | 50 ~ 62 |
| Heat pump air temperature range | °C | -5 ~ +43 | -5 ~ +43 |
| Duct diameter | mm | 125 | 125 |
| Air flow (without duct) | m³/min | 160 | 160 |
| Load losses acceptable on ventilation circuit, without affecting performance | Pa | 25 | 25 |
| Sound power level [1] | dB(A) | 45 | 45 |
| R134a refrigerant capacity | kg | 0,6 | 0,7 |
| Refrigerant volume in tons of $CO_2$ equivalent | $TCO_2$ Eq. | 0,86 | 1 |
| Refrigerant weight per liter | kg/L | 0,006 | 0,0046 |
| Hot water quantity at 40°C: V40td in 8h (Off-peak) / 14 (Off-peak+6h) | L | 151/289 | 182/318 |
| Coefficient of performance (at air 7°C ducted, water from 15°C to 53°C) | | 2,47 | 2,94 |
| Coefficient of performance (at air 15°C ambient, water from 15°C to 53°C) | | 2,75 | 3,21 |
| Acoustic power ErP in ducted configuration [2] | dB(A) | 45 | 45 |
| Acoustic power ErP in ambient configuration [2] | dB(A) | 50 | 50 |
| Energy Efficiency Class (from A+ to F) | | A+ | A+ |
| Input PV | | Yes | Yes |
| **Performance at 7°C air temperature (EN 16147) ducted at 25 Pa** | | | |
| Coefficient of performance (COP) according load profile | | 2,47 - M | 2,94 - L |
| Standby power input ($P_{es}$) | W | 20 | 22 |
| Heating up time ($t_h$) | h. Min | 7h27 | 11h21 |
| Reference hot water temperature ($T_{ref}$) | °C | 52,8 | 53 |
| Flow rate (air) | m³/h | 162,7 | 146,4 |
| **Performance at 7°C air temperature (EN 16147)** | | | |
| Coefficient of performance (COP) according load profile | | 2,75 - M | 3,21 - L |
| Standby power input ($P_{es}$) | W | 18 | 21 |
| Heating up time ($t_h$) | h. Min | 6h25 | 9h45 |
| Reference hot water temperature ($T_{ref}$) | °C | 52,5 | 53,1 |

1) According to ISO3744. 2) Compliant with EN 16147 conditions. * DHW Stand Alone is produced by S.A.T.E.

## Ideal for small surfaces

Suitable for all installations (adapted to small surfaces, low ceiling, corner).





# SANITARY TANKS



NEW 2019

## New Mono-bloc DHW+Ventilation.

Compact solution combining DHW tank and ventilation kit, in one compact surface of 60x60.

- e-heater included
- Tank sensor included
- 3 way valve included
- All electrical components are pre wired to a metal box
- Possible to attach Aquarea control in the front panel
- Safety valve for DHW
- This solution is great solution for low consumption houses (NZEB)

Ventilation unit produced by Komfovent.
Tank module produced by Austria Email AG.

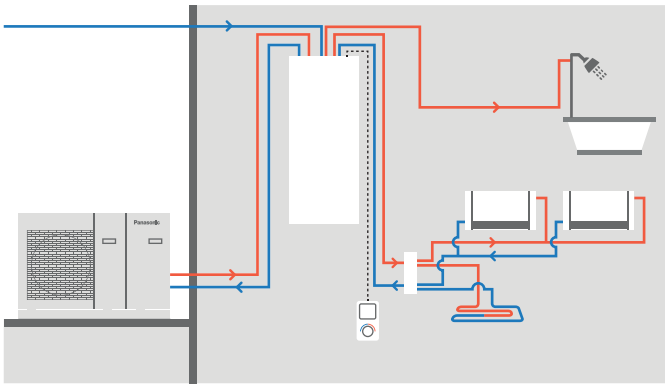


This is a conceptual image, it may change without prior notice.



## Combo Tank.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW 185l tank with a 80l buffer tank is particularly suitable for fast integration on an existing installation. Panasonic has developed a tank with 80l Buffer tank and 185l sanitary hot water cylinder. This tank includes a 3-way valve and an "A" Class pump. Easy to install, nice looking, high efficiency for DHW production and for heating.



### Combo Tank

| | | PAW-TD20B8E3-1 | |
|---|---|---|---|
| Dimension H x W x D | mm | 1770 x 640 x 690 | |
| Weight (empty) | kg | 150 | |
| Volume | L | 185 | |
| Power supply | V, Phase, Hz | 230, 1, 50 | |
| | | **Hot water tank** | **Buffer tank** |
| Volume | L | 185 | 80 |
| Max working pressure | MPa (bar) | 0,8 (8) | 0,6 (6) |
| Pressure test | MPa (bar) | 1,2 (12) | 0,9 (9) |
| Max working temp | °C | 90 | 100 |
| Connections | mm | Ø22 | Ø22 |
| Material | | S 275 JR vitrified | S235 JR |
| Insulation | Material, t=mm | PUR, 50 | PUR 40mm |
| Heating coil surface | m² | 2,1 | |
| Electrical heater | W | 3000 | |
| Energy loss at 65°C | kWh/24h | 1,3 | |

| **ErP data** | | **Hot water tank** | **Buffer tank** |
|---|---|---|---|
| **Energy efficiency class (from A+ to F)** | | **B** | **B** |
| Standing loss | W | 53 | 46 |
| Storage volume | L | 185 | 80 |

1) EU Regulation 812/2013. 2)Tested pursuant to EN 12897:2006.




## NEW Enamelled Tanks

| | | Enamelled Tank | | | | Enamelled 2 coils Tank (for bivalent Solar + HP) |
|---|---|---|---|---|---|---|
| **Model** | | **PAW-TA15C1E5STD*** | **PAW-TA20C1E5STD*** | **PAW-TA30C1E5STD*** | **PAW-TA40C1E5STD*** | **PAW-TA30C2E5STD*** |
| Water volume | L | 150 | 200 | 290 | 380 | 350 |
| Maximum water temperature | °C | 95 | 95 | 95 | 95 | 95 |
| Dimensions (Hight / Diameter) | mm | 1210/520 | 1340/610 | 1800/610 | 1835/670 | 1835/670 |
| Weight / filled with water | kg | 109/254 | 90/280 | 120/389 | 191/572 | 169/519 |
| Electric heater | kW | — | 3,00 | 3,00 | 3,00 | 3,00 |
| Power supply | V | — | 230 | 230 | 230 | 230 |
| Material inside tank | | Enamelled | Enamelled | Enamelled | Enamelled | Enamelled |
| Exchange surface | m² | 1,2 | 1,8 | 2,6 | 3,8 | 3,5 / 1,2 |
| Energy loss at 65°C [1] | kWh/24h | 1,45 | 1,37 | 1,61 | 1,76 | 1,76 |
| 3 Way valve accessory PAW-3WYVLV-SI or CZ-NV1 | | Optional | Optional | Optional | Optional | Optional |
| 20m temperature sensor cable included | | Yes | Yes | Yes | Yes | Yes |
| Energy losses | W | 60 | 57 | 67 | 73 | 73 |
| **Energy Efficiency Class (from A+ to F)** | | **C** | **B** | **B** | **B** | **B** |
| Warranty | | 2 Years | 2 Years | 2 Years | 2 Years | 2 Years |
| Maintenance required | | Every 2 years | Every 2 years | Every 2 years | Every 2 years | Every 2 years |

1) Insulated tested under EN12897.



## Stainless Steel Tank

| **Model** | | **PAW-TD20C1E5** | **PAW-TD30C1E5** |
|---|---|---|---|
| Water volume | L | 192 | 280 |
| Maximum water temperature | °C | 75 | 75 |
| Dimensions (Hight / Diameter) | mm | 1270/595 | 1750/595 |
| Weight / filled with water | kg | 53/— | 65/— |
| Electric heater | kW | 1,50 | 1,50 |
| Power supply | V | 230 | 230 |
| Material inside tank | | Stainless steel | Stainless steel |
| Exchange surface | m² | 1,8 | 1,8 |
| Energy loss at 65°C [1] | kWh/24h | 0,99 | 1,13 |
| 3 Way valve accessory PAW-3WYVLV-SI or CZ-NV1 | | Optional | Optional |
| 20m temperature sensor cable included | | Yes | Yes |
| Energy losses | W | 42 | 46 |
| **Energy Efficiency Class (from A+ to F)** | | **A** | **A** |
| Warranty | | 2 Years | 2 Years |
| Maintenance required | | No | No |

1) Insulated tested under EN12897. * Includes proportional control thermostat.




## NEW Buffer tank

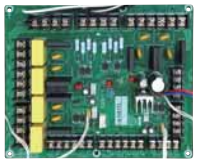
| | | **PAW-BTANK50L-1** |
|---|---|---|
| Capacity | L | 48 |
| Energy losses | W | 42 |
| **Energy Efficiency Class (from A+ to F)** | | **B** |
| Material | | Stainless Steel |
| Dimensions (Hight / Diameter) | mm | 435 x 615 |
| Net weight | kg | 17 |

* Automatic air vent and drain cock are included.

| **Accessories** | |
|---|---|
| **PAW-3WYVLV-SI** | External 3 way valve |
| **CZ-NV1** | 3 way valve ready for All in One J and H Generation (optional in internal space) |

# ACCESSORIES AND CONTROL

## Optional PCB's for additional functions



**CZ-NS4P**
PCB for advanced functions in J and H Generation.

## Deice accessories

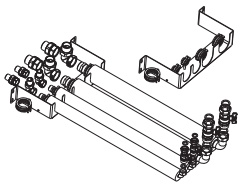


**CZ-NE1P**
Base pan heater (for all old Bi-bloc and Mono-bloc, not for the 3 and 5kW).

**CZ-NE2P**
Base pan heater (for 3kW and 5kW).

**CZ-NE3P**
Base pan heater for J and H Generation.

## Accessories for All in One



**PAW-ADC-PREKIT-1**
Flexible pipings and wall mounting plate for All in One J and H Generation.



**PAW-ADC-CV150**
Decorative magnetic side cover.

## Accessories for Aquarea Air

**PAW-AAIR-LEGS-1**
Kits of 2 legs to support the Aquarea Air on the floor and to protect the water pipings.

## Hydraulic accessories



**CZ-NV1**
3 way valve ready for All in One J and H Generation (optional in internal space).

**PAW-3WYVLV-SI**
External 3 way valve.

## Sanitary tank accessories



**PAW-TS1**
Tank sensor with 6m cable length.

**PAW-TS2**
Tank sensor with 20m cable length.

**PAW-TS4**
Tank sensor with 6m cable length and only 6mm diameter.



**CZ-TK1**
Temperature sensor kit for third party tank (with copper pocket and 6m length sensor cable).

## Special outdoor supports



**PAW-WTRAY**
Tray for condenser water compatible with base ground support.



**PAW-GRDSTD40**
Outdoor elevation platform.



**PAW-GRDBSE20**
Outdoor base ground support for noise and vibration absorption (600 x 95 x 130mm, 500kg).

## Connectivity solutions



**CZ-TAW1**
Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN.



**PAW-AW-KNX-1i**
KNX Interface compatible with G and F Generation.

**PAW-AW-KNX-H**
KNX interface for H Generation.




**PAW-AW-MBS-1**
Modbus interface compatible with G and F Generation.

**PAW-AW-MBS-H**
Modbus interface for H Generation.

**PA-AW-WIFI-1TE**
WLAN accessory with temperature sensor compatible with G and F Generation.

## Aquarea Manager accessories (not compatible with J and H Generation)



**PAW-HPM1**
Aquarea Manager with LCD.



**PAW-HPM2**
Aquarea Manager without LCD.




**PAW-HPMED**
Touch screen.

**PAW-HPMLCD**
LCD Display HPM Manager.

**PAW-HPMINT-U**
Interface to connect Aquarea Manager to Heat pump Aquarea Bi-bloc (HPM can control all parameters from HP).

**PAW-HPMINT-M**
Interface to connect Aquarea Manager to Heat pump Aquarea Mono-bloc (HPM can control all parameters from HP).



**PAW-HPMB1**
Buffer tank sensor.

**PAW-HPMDHW**
Buffer tank sensor with well.

**PAW-HPMSOL1**
Buffer tank sensor solar (with higher temperature range).



**PAW-HPMAH1**
Water flow pipe sensor for heating circuit.



**PAW-HPMUH**
Outdoor temperature sensor.

**PAW-HPMINT-F**
Interface to connect Aquarea Manager to Heat pump Aquarea Mono-bloc and Bi-bloc F type (HPM can control all parameters from HP).

**PAW-HPMR4**
Room sensor + set point adaptation.

**PAW-DEWPOINTSENSOR**
Dew point sensor.

## Cascade Controller



**PAW-A2W-CMH**
NEW Modbus IP for BMS communication.

## Fan Coil Controller



**PAW-FC-303TC**
Fan Coil control.




**PAW-FC-RC1**
NEW Wired remote controller.

## Room thermostats



**PAW-A2W-RTWIRED**
Wired LCD room thermostat with weekly timer.



**PAW-A2W-RTWIRELESS**
Wireless LCD room thermostat with weekly timer.

## H Generation sensors



**PAW-A2W-TSOD**
Outdoor ambient sensor.



**PAW-A2W-TSRT**
Zone room sensor.



**PAW-A2W-TSHC**
Zone water sensor.



**PAW-A2W-TSSO**
Solar sensor.



**PAW-A2W-TSBU**
Buffer tank sensor.

# Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

## Aquarea High Performance Bi-bloc H Generation Single Phase. Heating and Cooling • R410A Gas

**WH-UD03HE5-1**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 3,20 | 1,26 | 2,54 | 3,20 | 1,39 | 2,30 | 3,10 | 1,52 | 2,04 | 3,00 | 1,64 | 1,83 | 2,80 | 1,78 | 1,57 | 2,75 | 1,92 | 1,43 |
| -7 | 3,20 | 1,08 | 2,96 | 3,20 | 1,19 | 2,69 | 3,20 | 1,34 | 2,39 | 3,20 | 1,48 | 2,16 | 3,20 | 1,67 | 1,92 | 3,20 | 1,86 | 1,72 |
| 2 | 3,20 | 0,82 | 3,90 | 3,20 | 0,90 | 3,56 | 3,20 | 1,03 | 3,11 | 3,20 | 1,16 | 2,76 | 3,20 | 1,33 | 2,41 | 3,20 | 1,49 | 2,15 |
| 7 | 3,20 | 0,58 | 5,52 | 3,20 | 0,64 | 5,00 | 3,20 | 0,77 | 4,16 | 3,20 | 0,89 | 3,60 | 3,20 | 1,05 | 3,05 | 3,20 | 1,20 | 2,67 |
| 16 | 3,20 | 0,50 | 6,40 | 3,20 | 0,55 | 5,82 | 3,20 | 0,64 | 5,00 | 3,20 | 0,72 | 4,44 | 3,20 | 0,86 | 3,72 | 3,20 | 0,99 | 3,23 |
| 25 | 3,20 | 0,42 | 7,62 | 3,20 | 0,46 | 6,96 | 3,20 | 0,55 | 5,82 | 3,20 | 0,63 | 5,08 | 3,20 | 0,73 | 4,38 | 3,20 | 0,82 | 3,90 |

**WH-UD05HE5-1**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 4,20 | 1,75 | 2,40 | 4,20 | 1,94 | 2,16 | 3,80 | 1,96 | 1,94 | 3,40 | 1,98 | 1,72 | 3,20 | 2,05 | 1,56 | 3,00 | 2,12 | 1,42 |
| -7 | 4,20 | 1,46 | 2,88 | 4,20 | 1,62 | 2,59 | 4,00 | 1,72 | 2,33 | 3,80 | 1,82 | 2,09 | 3,70 | 1,95 | 1,90 | 3,55 | 2,08 | 1,71 |
| 2 | 4,20 | 1,22 | 3,44 | 4,20 | 1,35 | 3,11 | 4,20 | 1,50 | 2,80 | 4,20 | 1,65 | 2,55 | 4,15 | 1,86 | 2,23 | 4,10 | 2,07 | 1,98 |
| 7 | 5,00 | 0,97 | 5,15 | 5,00 | 1,08 | 4,63 | 5,00 | 1,28 | 3,91 | 5,00 | 1,48 | 3,38 | 5,00 | 1,68 | 2,98 | 5,00 | 1,89 | 2,65 |
| 16 | 5,00 | 0,83 | 6,02 | 5,00 | 0,92 | 5,43 | 5,00 | 1,15 | 4,35 | 5,00 | 1,38 | 3,62 | 5,00 | 1,53 | 3,27 | 5,00 | 1,68 | 2,98 |
| 25 | 5,00 | 0,74 | 6,76 | 5,00 | 0,82 | 6,10 | 5,00 | 1,02 | 4,90 | 5,00 | 1,22 | 4,10 | 5,00 | 1,35 | 3,70 | 5,00 | 1,49 | 3,36 |

**WH-UD07HE5-1**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | — | — | — | 4,60 | 1,98 | 2,32 | 4,60 | 2,19 | 2,10 | 4,60 | 2,40 | 1,92 | 4,55 | 2,63 | 1,73 | 4,50 | 2,86 | 1,57 |
| -7 | — | — | — | 5,15 | 1,92 | 2,68 | 5,08 | 2,14 | 2,37 | 5,00 | 2,36 | 2,12 | 4,90 | 2,45 | 2,00 | 4,80 | 2,54 | 1,89 |
| 2 | — | — | — | 6,55 | 1,96 | 3,34 | 6,58 | 2,29 | 2,87 | 6,60 | 2,62 | 2,52 | 6,30 | 2,82 | 2,23 | 6,00 | 3,01 | 1,99 |
| 7 | — | — | — | 7,00 | 1,57 | 4,46 | 7,00 | 1,84 | 3,80 | 7,00 | 2,10 | 3,33 | 6,90 | 2,35 | 2,94 | 6,80 | 2,59 | 2,63 |
| 25 | — | — | — | 7,00 | 0,97 | 7,22 | 6,74 | 1,14 | 5,91 | 6,48 | 1,31 | 4,95 | 6,24 | 1,43 | 4,36 | 6,00 | 1,55 | 3,87 |

**WH-UD09HE5-1**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | — | — | — | 5,90 | 2,66 | 2,22 | 5,65 | 2,82 | 2,00 | 5,40 | 2,98 | 1,81 | 5,20 | 3,08 | 1,69 | 5,00 | 3,18 | 1,57 |
| -7 | — | — | — | 5,90 | 2,34 | 2,52 | 5,85 | 2,61 | 2,24 | 5,80 | 2,88 | 2,01 | 5,80 | 2,98 | 1,95 | 5,80 | 3,08 | 1,88 |
| 2 | — | — | — | 6,70 | 2,14 | 3,13 | 6,65 | 2,38 | 2,79 | 6,60 | 2,62 | 2,52 | 6,30 | 2,82 | 2,23 | 6,00 | 3,01 | 1,99 |
| 7 | — | — | — | 9,00 | 2,18 | 4,13 | 9,00 | 2,49 | 3,61 | 9,00 | 2,79 | 3,23 | 8,95 | 3,25 | 2,75 | 8,90 | 3,70 | 2,41 |
| 25 | — | — | — | 9,00 | 1,26 | 7,14 | 8,66 | 1,48 | 5,85 | 8,32 | 1,69 | 4,92 | 8,03 | 1,85 | 4,34 | 7,74 | 2,01 | 3,85 |

**WH-UD12HE5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,30 | 3,46 | 2,69 | 8,90 | 3,62 | 2,46 | 8,50 | 3,79 | 2,24 | 8,10 | 3,95 | 2,05 | 7,50 | 4,05 | 1,85 | 7,00 | 4,16 | 1,68 |
| -7 | 10,40 | 3,37 | 3,09 | 10,00 | 3,66 | 2,73 | 9,60 | 3,95 | 2,43 | 9,20 | 4,24 | 2,17 | 8,70 | 4,26 | 2,04 | 8,20 | 4,27 | 1,92 |
| 2 | 11,80 | 3,10 | 3,81 | 11,40 | 3,31 | 3,44 | 11,00 | 3,53 | 3,12 | 10,60 | 3,74 | 2,83 | 9,80 | 3,94 | 2,49 | 9,10 | 4,14 | 2,20 |
| 7 | 12,00 | 2,10 | 5,71 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 12,00 | 1,38 | 8,70 | 12,00 | 1,66 | 7,23 | 11,80 | 1,94 | 6,08 | 11,70 | 2,23 | 5,25 | 11,50 | 2,49 | 4,62 | 11,40 | 2,74 | 4,16 |

**WH-UD16HE5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 10,60 | 4,09 | 2,59 | 10,30 | 4,38 | 2,35 | 10,00 | 4,67 | 2,14 | 9,70 | 4,96 | 1,96 | 8,80 | 4,94 | 1,78 | 7,90 | 4,91 | 1,61 |
| -7 | 11,90 | 4,03 | 2,95 | 11,40 | 4,43 | 2,57 | 10,80 | 4,83 | 2,24 | 10,30 | 5,22 | 1,97 | 9,60 | 5,09 | 1,89 | 9,00 | 4,95 | 1,82 |
| 2 | 13,50 | 3,74 | 3,61 | 13,00 | 3,96 | 3,28 | 12,40 | 4,18 | 2,97 | 11,90 | 4,40 | 2,70 | 10,80 | 4,46 | 2,42 | 9,80 | 4,51 | 2,17 |
| 7 | 16,00 | 3,21 | 4,98 | 16,00 | 3,74 | 4,28 | 16,00 | 4,27 | 3,75 | 16,00 | 4,80 | 3,33 | 15,20 | 5,11 | 2,97 | 14,50 | 5,41 | 2,68 |
| 25 | 16,00 | 2,31 | 6,93 | 16,00 | 2,69 | 5,95 | 16,00 | 3,07 | 5,21 | 16,00 | 3,45 | 4,64 | 16,00 | 3,67 | 4,36 | 15,90 | 3,89 | 4,09 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

## Aquarea High Performance Bi-bloc H Generation Single Phase. Heating and Cooling • R410A Gas

| WH-UD03HE5-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 2,40 | 0,42 | 5,71 | 4,40 | 0,73 | 6,03 | 3,70 | 0,49 | 7,55 |
| 25 | 3,20 | 0,73 | 4,38 | 4,10 | 0,86 | 4,77 | 3,50 | 0,59 | 5,93 |
| 35 | 3,20 | 1,04 | 3,08 | 3,90 | 1,07 | 3,64 | 3,30 | 0,74 | 4,46 |
| 43 | 2,90 | 1,20 | 2,42 | 3,50 | 1,20 | 2,92 | 3,00 | 0,88 | 3,41 |
| **WH-UD05HE5-1** | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 4,50 | 0,89 | 5,06 | 5,00 | 0,90 | 5,56 | 5,70 | 0,90 | 6,33 |
| 25 | 5,00 | 1,43 | 3,50 | 6,30 | 1,50 | 4,20 | 5,40 | 1,06 | 5,09 |
| 35 | 4,50 | 1,67 | 2,69 | 5,50 | 1,68 | 3,27 | 5,00 | 1,33 | 3,76 |
| 43 | 3,30 | 1,53 | 2,16 | 4,10 | 1,52 | 2,70 | 4,40 | 1,53 | 2,88 |
| **WH-UD07HE5-1** | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 4,80 | 0,80 | 6,00 | 7,20 | 1,16 | 6,21 | 6,00 | 1,13 | 5,31 |
| 25 | 7,00 | 1,90 | 3,68 | 8,47 | 1,78 | 4,76 | 6,00 | 1,27 | 4,72 |
| 35 | 6,00 | 2,28 | 2,63 | 6,60 | 2,48 | 2,66 | 6,00 | 1,68 | 3,57 |
| 43 | 4,85 | 2,65 | 1,83 | 6,00 | 2,82 | 2,13 | 4,80 | 1,98 | 2,42 |
| **WH-UD09HE5-1** | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 5,40 | 1,00 | 5,40 | 8,40 | 1,62 | 5,19 | 7,00 | 1,61 | 4,35 |
| 25 | 7,85 | 2,40 | 3,27 | 10,20 | 2,46 | 4,15 | 7,00 | 1,77 | 3,95 |
| 35 | 7,00 | 2,88 | 2,43 | 7,60 | 3,20 | 2,38 | 7,00 | 2,15 | 3,26 |
| 43 | 5,20 | 2,85 | 1,82 | 6,99 | 3,84 | 1,82 | 5,60 | 2,55 | 2,20 |
| **WH-UD12HE5** | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 16 | 7,86 | 1,18 | 6,66 | 13,15 | 1,40 | 9,39 | 10,00 | 1,73 | 5,78 |
| 25 | 12,08 | 2,90 | 4,17 | 15,70 | 2,05 | 7,66 | 10,00 | 1,97 | 5,08 |
| 35 | 10,00 | 2,56 | 3,91 | 12,00 | 2,67 | 4,49 | 10,00 | 2,40 | 4,17 |
| 43 | 7,80 | 3,80 | 2,05 | 11,10 | 3,19 | 3,48 | 8,00 | 2,85 | 2,81 |
| **WH-UD16HE5** | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 16 | 9,20 | 1,62 | 5,68 | 16,40 | 2,58 | 6,36 | 12,20 | 2,45 | 4,98 |
| 25 | 14,40 | 3,92 | 3,67 | 19,20 | 3,83 | 5,01 | 12,20 | 2,79 | 4,37 |
| 35 | 12,20 | 4,76 | 2,56 | 15,00 | 4,98 | 3,01 | 12,20 | 2,96 | 4,12 |
| 43 | 7,75 | 3,40 | 2,28 | 13,80 | 5,95 | 2,32 | 9,70 | 4,00 | 2,43 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

# Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

## Aquarea High Performance Bi-bloc H Generation Three Phase. Heating and Cooling • R410A Gas

| WH-UD09HE8 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 8,65 | 3,06 | 2,83 | 8,30 | 3,21 | 2,59 | 7,95 | 3,41 | 2,33 | 7,60 | 3,61 | 2,11 | 7,15 | 3,71 | 1,93 | 6,70 | 3,81 | 1,76 |
| -7 | 9,35 | 2,91 | 3,21 | 9,00 | 3,16 | 2,85 | 8,85 | 3,54 | 2,50 | 8,70 | 3,92 | 2,22 | 8,30 | 3,89 | 2,13 | 7,90 | 3,86 | 2,05 |
| 2 | 9,31 | 2,35 | 3,96 | 9,00 | 2,51 | 3,59 | 9,00 | 2,78 | 3,24 | 9,00 | 3,05 | 2,95 | 8,90 | 3,49 | 2,55 | 8,80 | 3,94 | 2,23 |
| 7 | 9,00 | 1,54 | 5,84 | 9,00 | 1,86 | 4,84 | 9,00 | 2,16 | 4,17 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 |
| 25 | 9,00 | 1,05 | 8,57 | 9,00 | 1,24 | 7,26 | 8,73 | 1,44 | 6,06 | 8,46 | 1,64 | 5,16 | 8,28 | 1,82 | 4,55 | 8,10 | 2,00 | 4,05 |
| WH-UD12HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,30 | 3,46 | 2,69 | 8,90 | 3,62 | 2,46 | 8,50 | 3,79 | 2,24 | 8,10 | 3,95 | 2,05 | 7,50 | 4,05 | 1,85 | 7,00 | 4,16 | 1,68 |
| -7 | 10,40 | 3,37 | 3,09 | 10,00 | 3,66 | 2,73 | 9,60 | 3,95 | 2,43 | 9,20 | 4,24 | 2,17 | 8,70 | 4,26 | 2,04 | 8,20 | 4,27 | 1,92 |
| 2 | 11,80 | 3,10 | 3,81 | 11,40 | 3,31 | 3,44 | 11,00 | 3,53 | 3,12 | 10,60 | 3,74 | 2,83 | 9,80 | 3,94 | 2,49 | 9,10 | 4,14 | 2,20 |
| 7 | 12,00 | 2,10 | 5,71 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 12,00 | 1,38 | 8,70 | 12,00 | 1,66 | 7,23 | 11,80 | 1,94 | 6,08 | 11,70 | 2,23 | 5,25 | 11,50 | 2,49 | 4,62 | 11,40 | 2,74 | 4,16 |
| WH-UD16HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 10,60 | 4,09 | 2,59 | 10,30 | 4,38 | 2,35 | 10,00 | 4,67 | 2,14 | 9,70 | 4,96 | 1,96 | 8,80 | 4,94 | 1,78 | 7,90 | 4,91 | 1,61 |
| -7 | 11,90 | 4,03 | 2,95 | 11,40 | 4,43 | 2,57 | 10,80 | 4,83 | 2,24 | 10,30 | 5,22 | 1,97 | 9,60 | 5,09 | 1,89 | 9,00 | 4,95 | 1,82 |
| 2 | 13,50 | 3,74 | 3,61 | 13,00 | 3,96 | 3,28 | 12,40 | 4,18 | 2,97 | 11,90 | 4,40 | 2,70 | 10,80 | 4,46 | 2,42 | 9,80 | 4,51 | 2,17 |
| 7 | 16,00 | 3,21 | 4,98 | 16,00 | 3,74 | 4,28 | 16,00 | 4,27 | 3,75 | 16,00 | 4,80 | 3,33 | 15,20 | 5,11 | 2,97 | 14,50 | 5,41 | 2,68 |
| 25 | 16,00 | 2,31 | 6,93 | 16,00 | 2,69 | 5,95 | 16,00 | 3,07 | 5,21 | 16,00 | 3,45 | 4,64 | 16,00 | 3,67 | 4,36 | 15,90 | 3,89 | 4,09 |

## Aquarea High Performance Bi-bloc H Generation Three Phase. Heating and Cooling • R410A Gas

| WH-UD09HE8 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 16 | 7,50 | 1,15 | 6,52 | 9,10 | 1,20 | 7,58 | 7,00 | 1,13 | 6,19 |
| 25 | 8,35 | 1,77 | 4,72 | 10,90 | 1,78 | 6,12 | 7,00 | 1,24 | 5,65 |
| 35 | 7,00 | 2,23 | 3,14 | 8,30 | 2,32 | 3,58 | 7,00 | 1,52 | 4,61 |
| 43 | 5,52 | 2,54 | 2,17 | 7,69 | 2,77 | 2,78 | 5,60 | 1,80 | 3,11 |
| WH-UD12HE8 | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 16 | 7,86 | 1,18 | 6,66 | 13,15 | 1,40 | 9,39 | 10,00 | 1,73 | 5,78 |
| 25 | 12,08 | 2,90 | 4,17 | 15,70 | 2,05 | 7,66 | 10,00 | 1,97 | 5,08 |
| 35 | 10,00 | 2,56 | 3,91 | 12,00 | 2,67 | 4,49 | 10,00 | 2,40 | 4,17 |
| 43 | 7,80 | 3,80 | 2,05 | 11,10 | 3,19 | 3,48 | 8,00 | 2,85 | 2,81 |
| WH-UD16HE8 | | | | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 16 | 9,20 | 1,62 | 5,68 | 16,40 | 2,58 | 6,36 | 12,20 | 2,45 | 4,98 |
| 25 | 14,40 | 3,92 | 3,67 | 19,20 | 3,83 | 5,01 | 12,20 | 2,79 | 4,37 |
| 35 | 12,20 | 4,76 | 2,56 | 15,00 | 4,98 | 3,01 | 12,20 | 2,96 | 4,12 |
| 43 | 7,75 | 3,40 | 2,28 | 13,80 | 5,95 | 2,32 | 9,70 | 4,00 | 2,43 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

## Aquarea T-CAP Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling • R410A Gas

| WH-UX09HE5 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,00 | 3,24 | 2,78 | 9,00 | 3,51 | 2,56 | 9,00 | 3,91 | 2,30 | 9,00 | 4,30 | 2,09 | 9,00 | 4,73 | 1,90 | 9,00 | 5,16 | 1,74 |
| -7 | 9,00 | 2,71 | 3,32 | 9,00 | 3,16 | 2,85 | 9,00 | 3,62 | 2,49 | 9,00 | 4,07 | 2,21 | 9,00 | 4,27 | 2,11 | 9,00 | 4,46 | 2,02 |
| 2 | 9,00 | 2,36 | 3,81 | 9,00 | 2,51 | 3,59 | 9,00 | 2,78 | 3,24 | 9,00 | 3,05 | 2,95 | 9,00 | 3,56 | 2,53 | 9,00 | 4,07 | 2,21 |
| 7 | 9,00 | 1,64 | 5,49 | 9,00 | 1,86 | 4,84 | 9,00 | 2,16 | 4,17 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 |
| 25 | 13,60 | 1,50 | 9,07 | 13,60 | 1,71 | 7,95 | 13,20 | 1,93 | 6,84 | 12,80 | 2,14 | 5,98 | 12,00 | 2,41 | 4,98 | 11,20 | 2,67 | 4,19 |
| WH-UX12HE5 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 4,75 | 2,53 | 12,00 | 4,96 | 2,42 | 12,00 | 5,41 | 2,22 | 11,00 | 5,38 | 2,04 | 10,80 | 5,82 | 1,86 | 10,50 | 6,26 | 1,68 |
| -7 | 12,00 | 3,85 | 3,12 | 12,00 | 4,41 | 2,72 | 12,00 | 4,98 | 2,41 | 12,00 | 5,54 | 2,17 | 12,00 | 5,90 | 2,03 | 12,00 | 6,26 | 1,92 |
| 2 | 12,00 | 3,19 | 3,76 | 12,00 | 3,49 | 3,44 | 12,00 | 3,87 | 3,10 | 12,00 | 4,25 | 2,82 | 12,00 | 4,86 | 2,47 | 12,00 | 5,47 | 2,19 |
| 7 | 12,00 | 2,18 | 5,50 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 13,60 | 1,55 | 8,77 | 13,60 | 1,76 | 7,73 | 13,40 | 2,10 | 6,38 | 13,20 | 2,43 | 5,43 | 12,60 | 2,66 | 4,74 | 12,00 | 2,89 | 4,15 |
| WH-UX09HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,00 | 3,24 | 2,78 | 9,00 | 3,51 | 2,56 | 9,00 | 3,91 | 2,30 | 9,00 | 4,30 | 2,09 | 9,00 | 4,73 | 1,90 | 9,00 | 5,16 | 1,74 |
| -7 | 9,00 | 2,71 | 3,32 | 9,00 | 3,16 | 2,85 | 9,00 | 3,62 | 2,49 | 9,00 | 4,07 | 2,21 | 9,00 | 4,27 | 2,11 | 9,00 | 4,46 | 2,02 |
| 2 | 9,00 | 2,36 | 3,81 | 9,00 | 2,51 | 3,59 | 9,00 | 2,78 | 3,24 | 9,00 | 3,05 | 2,95 | 9,00 | 3,56 | 2,53 | 9,00 | 4,07 | 2,21 |
| 7 | 9,00 | 1,64 | 5,49 | 9,00 | 1,86 | 4,84 | 9,00 | 2,16 | 4,17 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 |
| 25 | 13,60 | 1,50 | 9,07 | 13,60 | 1,71 | 7,95 | 13,20 | 1,93 | 6,84 | 12,80 | 2,14 | 5,98 | 12,00 | 2,41 | 4,98 | 11,20 | 2,67 | 4,19 |
| WH-UX12HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 4,75 | 2,53 | 12,00 | 4,96 | 2,42 | 12,00 | 5,41 | 2,22 | 12,00 | 5,86 | 2,05 | 11,80 | 6,24 | 1,89 | 11,60 | 6,62 | 1,75 |
| -7 | 12,00 | 3,85 | 3,12 | 12,00 | 4,41 | 2,72 | 12,00 | 4,98 | 2,41 | 12,00 | 5,54 | 2,17 | 12,00 | 5,90 | 2,03 | 12,00 | 6,26 | 1,92 |
| 2 | 12,00 | 3,19 | 3,76 | 12,00 | 3,49 | 3,44 | 12,00 | 3,87 | 3,10 | 12,00 | 4,25 | 2,82 | 12,00 | 4,86 | 2,47 | 12,00 | 5,47 | 2,19 |
| 7 | 12,00 | 2,18 | 5,50 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 13,60 | 1,55 | 8,77 | 13,60 | 1,76 | 7,73 | 13,40 | 2,10 | 6,38 | 13,20 | 2,43 | 5,43 | 12,60 | 2,66 | 4,74 | 12,00 | 2,89 | 4,15 |
| WH-UX16HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 16,00 | 6,30 | 2,54 | 16,00 | 6,89 | 2,32 | 16,00 | 7,45 | 2,15 | 16,00 | 8,10 | 1,98 | 16,00 | 8,48 | 1,89 | 15,20 | 8,96 | 1,70 |
| -7 | 16,00 | 5,85 | 2,74 | 16,00 | 6,42 | 2,49 | 16,00 | 7,00 | 2,29 | 16,00 | 7,57 | 2,11 | 16,00 | 8,10 | 1,98 | 16,00 | 8,62 | 1,86 |
| 2 | 16,00 | 4,67 | 3,43 | 16,00 | 5,21 | 3,07 | 16,00 | 5,74 | 2,79 | 16,00 | 6,31 | 2,54 | 16,00 | 6,90 | 2,32 | 16,00 | 7,50 | 2,13 |
| 7 | 16,00 | 3,35 | 4,78 | 16,00 | 3,74 | 4,28 | 16,00 | 4,30 | 3,72 | 16,00 | 4,80 | 3,33 | 16,00 | 5,43 | 2,95 | 16,00 | 5,91 | 2,71 |
| 16 | 16,00 | 2,59 | 6,18 | 16,00 | 3,18 | 5,03 | 16,00 | 3,71 | 4,31 | 16,00 | 4,27 | 3,75 | 16,00 | 4,86 | 3,29 | 16,00 | 5,22 | 3,07 |
| 25 | 16,00 | 2,02 | 7,92 | 16,00 | 2,58 | 6,20 | 16,00 | 2,91 | 5,50 | 16,00 | 3,36 | 4,76 | 16,00 | 3,74 | 4,28 | 16,00 | 4,00 | 4,00 |

## Aquarea T-CAP Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling • R410A Gas

| Models | WH-UX09HE5 | | | | | | | | | WH-UX12HE5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 7,00 | 1,36 | 5,15 | 8,55 | 1,41 | 6,06 | 7,00 | 1,00 | 7,00 | 10,00 | 1,75 | 5,71 | 13,20 | 1,96 | 6,73 | 10,00 | 1,40 | 7,14 |
| 25 | 7,65 | 1,91 | 4,01 | 11,10 | 1,98 | 5,61 | 7,00 | 1,10 | 6,36 | 11,20 | 2,67 | 4,19 | 16,50 | 3,01 | 5,48 | 10,00 | 1,60 | 6,25 |
| 35 | 7,00 | 2,21 | 3,17 | 9,23 | 2,37 | 3,89 | 7,00 | 1,35 | 5,19 | 10,00 | 3,56 | 2,81 | 12,55 | 3,63 | 3,46 | 10,00 | 1,95 | 5,13 |
| 43 | 6,25 | 2,66 | 2,35 | 8,55 | 2,71 | 3,15 | 5,60 | 1,60 | 3,50 | 8,00 | 3,35 | 2,39 | 10,00 | 3,46 | 2,89 | 8,00 | 2,30 | 3,48 |
| Models | WH-UX09HE8 | | | | | | WH-UX12HE8 | | | | | | WH-UX16HE8 | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 18 | 18 | 18 | 7 | 7 | 7 | 18 | 18 | 18 | 7 | 7 | 7 | 18 | 18 | 18 |
| 18 | 7,00 | 1,36 | 5,15 | — | — | — | 7,50 | 1,41 | 5,32 | — | — | — | 8,50 | 1,70 | 5,00 | 10,00 | 1,70 | 5,88 |
| 25 | 7,65 | 1,91 | 4,01 | — | — | — | 8,90 | 2,16 | 4,12 | — | — | — | 14,00 | 4,00 | 3,50 | 14,00 | 2,94 | 4,76 |
| 35 | 7,00 | 2,21 | 3,17 | — | — | — | 10,00 | 3,56 | 2,81 | — | — | — | 12,20 | 4,76 | 2,56 | 12,20 | 3,50 | 3,49 |
| 43 | 6,25 | 2,66 | 2,35 | — | — | — | 8,00 | 3,01 | 2,66 | — | — | — | 7,10 | 3,31 | 2,15 | 9,80 | 3,31 | 2,96 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

# Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

## Aquarea T-CAP Bi-bloc H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling - SQC • R410A Gas

| WH-UQ09HE8 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,00 | 3,24 | 2,78 | 9,00 | 3,51 | 2,56 | 9,00 | 3,91 | 2,30 | 9,00 | 4,30 | 2,09 | 9,00 | 4,73 | 1,90 | 9,00 | 5,16 | 1,74 |
| -7 | 9,00 | 2,71 | 3,32 | 9,00 | 3,16 | 2,85 | 9,00 | 3,62 | 2,49 | 9,00 | 4,07 | 2,21 | 9,00 | 4,27 | 2,11 | 9,00 | 4,46 | 2,02 |
| 2 | 9,00 | 2,36 | 3,81 | 9,00 | 2,51 | 3,59 | 9,00 | 2,78 | 3,24 | 9,00 | 3,05 | 2,95 | 9,00 | 3,56 | 2,53 | 9,00 | 4,07 | 2,21 |
| 7 | 9,00 | 1,64 | 5,49 | 9,00 | 1,86 | 4,84 | 9,00 | 2,16 | 4,17 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 |
| 25 | 13,60 | 1,50 | 9,07 | 13,60 | 1,71 | 7,95 | 13,20 | 1,93 | 6,84 | 12,80 | 2,14 | 5,98 | 12,00 | 2,41 | 4,98 | 11,20 | 2,67 | 4,19 |
| WH-UQ12HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 4,75 | 2,53 | 12,00 | 4,96 | 2,42 | 12,00 | 5,41 | 2,22 | 12,00 | 5,86 | 2,05 | 11,80 | 6,24 | 1,89 | 11,60 | 6,62 | 1,75 |
| -7 | 12,00 | 3,85 | 3,12 | 12,00 | 4,41 | 2,72 | 12,00 | 4,98 | 2,41 | 12,00 | 5,54 | 2,17 | 12,00 | 5,90 | 2,03 | 12,00 | 6,26 | 1,92 |
| 2 | 12,00 | 3,19 | 3,76 | 12,00 | 3,49 | 3,44 | 12,00 | 3,87 | 3,10 | 12,00 | 4,25 | 2,82 | 12,00 | 4,86 | 2,47 | 12,00 | 5,47 | 2,19 |
| 7 | 12,00 | 2,18 | 5,50 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 13,60 | 1,55 | 8,77 | 13,60 | 1,76 | 7,73 | 13,40 | 2,10 | 6,38 | 13,20 | 2,43 | 5,43 | 12,60 | 2,66 | 4,74 | 12,00 | 2,89 | 4,15 |
| WH-UQ16HE8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 16,00 | 6,30 | 2,54 | 16,00 | 6,89 | 2,32 | 16,00 | 7,45 | 2,15 | 16,00 | 8,10 | 1,98 | 16,00 | 8,48 | 1,89 | 15,20 | 8,96 | 1,70 |
| -7 | 16,00 | 5,85 | 2,74 | 16,00 | 6,42 | 2,49 | 16,00 | 7,00 | 2,29 | 16,00 | 7,57 | 2,11 | 16,00 | 8,10 | 1,98 | 16,00 | 8,62 | 1,86 |
| 2 | 16,00 | 4,67 | 3,43 | 16,00 | 5,21 | 3,07 | 16,00 | 5,74 | 2,79 | 16,00 | 6,31 | 2,54 | 16,00 | 6,90 | 2,32 | 16,00 | 7,50 | 2,13 |
| 7 | 16,00 | 3,35 | 4,78 | 16,00 | 3,74 | 4,28 | 16,00 | 4,30 | 3,72 | 16,00 | 4,80 | 3,33 | 16,00 | 5,43 | 2,95 | 16,00 | 5,91 | 2,71 |
| 16 | 16,00 | 2,59 | 6,18 | 16,00 | 3,18 | 5,03 | 16,00 | 3,71 | 4,31 | 16,00 | 4,27 | 3,75 | 16,00 | 4,86 | 3,29 | 16,00 | 5,22 | 3,07 |
| 25 | 16,00 | 2,02 | 7,92 | 16,00 | 2,58 | 6,20 | 16,00 | 2,91 | 5,50 | 16,00 | 3,36 | 4,76 | 16,00 | 3,74 | 4,28 | 16,00 | 4,00 | 4,00 |

## Aquarea T-CAP Bi-bloc H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling - SQC • R410A Gas

| WH-UQ09HE8 | | | | | | |
|---|---|---|---|---|---|---|
| Tamb | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 18 | 18 | 18 |
| 18 | 7,00 | 1,36 | 5,15 | — | — | — |
| 25 | 7,65 | 1,91 | 4,01 | — | — | — |
| 35 | 7,00 | 2,21 | 3,17 | — | — | — |
| 43 | 6,25 | 2,66 | 2,35 | — | — | — |
| WH-UQ12HE8 | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 18 | 18 | 18 |
| 18 | 7,50 | 1,41 | 5,32 | — | — | — |
| 25 | 8,90 | 2,16 | 4,12 | — | — | — |
| 35 | 10,00 | 3,56 | 2,81 | — | — | — |
| 43 | 8,00 | 3,01 | 2,66 | — | — | — |
| WH-UQ16HE8 | | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 18 | 18 | 18 |
| 18 | 8,50 | 1,70 | 5,00 | 10,00 | 1,70 | 5,88 |
| 25 | 14,00 | 4,00 | 3,50 | 14,00 | 2,94 | 4,76 |
| 35 | 12,20 | 4,76 | 2,56 | 12,20 | 3,50 | 3,49 |
| 43 | 7,10 | 3,31 | 2,15 | 9,80 | 3,31 | 2,96 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

## Aquarea High Performance Mono-bloc H Generation Single Phase. Heating and Cooling - MDC • R410A Gas

| WH-MDC05H3E5 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Tamb** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** |
| **LWC** | **30** | **30** | **30** | **35** | **35** | **35** | **40** | **40** | **40** | **45** | **45** | **45** | **50** | **50** | **50** | **55** | **55** | **55** |
| **-15** | 5,13 | 2,02 | 2,54 | 5,00 | 2,20 | 2,27 | 4,88 | 2,39 | 2,04 | 4,75 | 2,57 | 1,85 | 4,08 | 2,29 | 1,78 | 3,40 | 2,00 | 1,70 |
| **-7** | 4,80 | 1,49 | 3,23 | 4,70 | 1,65 | 2,85 | 4,60 | 1,82 | 2,53 | 4,50 | 1,98 | 2,27 | 4,40 | 2,13 | 2,07 | 4,30 | 2,28 | 1,89 |
| **2** | 5,10 | 1,34 | 3,81 | 4,80 | 1,43 | 3,36 | 4,50 | 1,52 | 2,96 | 4,20 | 1,61 | 2,61 | 4,10 | 1,67 | 2,46 | 4,00 | 1,72 | 2,33 |
| **7** | 5,00 | 0,79 | 6,33 | 5,00 | 0,99 | 5,08 | 5,00 | 1,18 | 4,24 | 5,00 | 1,37 | 3,65 | 5,00 | 1,57 | 3,19 | 5,00 | 1,76 | 2,84 |
| **12** | 4,85 | 0,77 | 6,29 | 4,83 | 0,89 | 5,46 | 4,82 | 1,00 | 4,82 | 4,80 | 1,12 | 4,29 | 4,74 | 1,25 | 3,81 | 4,68 | 1,37 | 3,42 |
| **WH-MDC07H3E5** | | | | | | | | | | | | | | | | | | |
| **Tamb** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** |
| **LWC** | **30** | **30** | **30** | **35** | **35** | **35** | **40** | **40** | **40** | **45** | **45** | **45** | **50** | **50** | **50** | **55** | **55** | **55** |
| **-15** | 4,60 | 1,68 | 2,75 | 4,60 | 1,89 | 2,43 | 4,60 | 2,11 | 2,19 | 4,60 | 2,32 | 1,98 | 4,55 | 2,56 | 1,78 | 4,50 | 2,79 | 1,61 |
| **-7** | 5,60 | 1,88 | 2,99 | 5,50 | 2,04 | 2,70 | 5,40 | 2,21 | 2,45 | 5,30 | 2,37 | 2,24 | 5,15 | 2,56 | 2,01 | 5,00 | 2,75 | 1,82 |
| **2** | 6,65 | 1,79 | 3,73 | 6,60 | 2,00 | 3,30 | 6,55 | 2,22 | 2,96 | 6,50 | 2,43 | 2,67 | 6,40 | 2,64 | 2,43 | 6,30 | 2,84 | 2,22 |
| **7** | 7,00 | 1,33 | 5,28 | 7,00 | 1,55 | 4,52 | 7,00 | 1,78 | 3,94 | 7,00 | 2,00 | 3,50 | 7,00 | 2,24 | 3,13 | 7,00 | 2,47 | 2,83 |
| **12** | 7,00 | 1,30 | 5,38 | 7,00 | 1,45 | 4,83 | 7,05 | 1,65 | 4,27 | 7,10 | 1,90 | 3,74 | 7,15 | 2,10 | 3,40 | 7,20 | 2,30 | 3,13 |
| **WH-MDC09H3E5** | | | | | | | | | | | | | | | | | | |
| **Tamb** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** |
| **LWC** | **30** | **30** | **30** | **35** | **35** | **35** | **40** | **40** | **40** | **45** | **45** | **45** | **50** | **50** | **50** | **55** | **55** | **55** |
| **-15** | 6,10 | 2,34 | 2,61 | 5,90 | 2,50 | 2,36 | 5,70 | 2,67 | 2,14 | 5,50 | 2,83 | 1,94 | 5,25 | 2,99 | 1,76 | 5,00 | 3,14 | 1,59 |
| **-7** | 6,55 | 2,26 | 2,90 | 6,40 | 2,46 | 2,60 | 6,25 | 2,66 | 2,35 | 6,10 | 2,86 | 2,13 | 5,95 | 3,06 | 1,95 | 5,80 | 3,25 | 1,78 |
| **2** | 6,85 | 1,92 | 3,58 | 6,80 | 2,14 | 3,18 | 6,75 | 2,37 | 2,85 | 6,70 | 2,59 | 2,59 | 6,50 | 2,78 | 2,34 | 6,30 | 2,96 | 2,13 |
| **7** | 9,00 | 1,80 | 5,01 | 9,00 | 2,10 | 4,29 | 9,00 | 2,41 | 3,74 | 9,00 | 2,71 | 3,32 | 9,00 | 3,01 | 2,99 | 9,00 | 3,31 | 2,72 |
| **12** | 9,10 | 1,61 | 5,65 | 9,00 | 1,79 | 5,03 | 9,00 | 2,09 | 4,31 | 9,10 | 2,40 | 3,79 | 9,20 | 2,80 | 3,29 | 9,30 | 3,00 | 3,10 |
| **WH-MDC12H6E5** | | | | | | | | | | | | | | | | | | |
| **Tamb** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** |
| **LWC** | **30** | **30** | **30** | **35** | **35** | **35** | **40** | **40** | **40** | **45** | **45** | **45** | **50** | **50** | **50** | **55** | **55** | **55** |
| **-15** | 9,30 | 3,46 | 2,69 | 8,90 | 3,62 | 2,46 | 8,50 | 3,79 | 2,24 | 8,10 | 3,95 | 2,05 | — | — | — | 7,00 | 4,10 | 1,71 |
| **-7** | 10,40 | 3,37 | 3,09 | 10,00 | 3,66 | 2,73 | 9,60 | 3,95 | 2,43 | 9,20 | 4,24 | 2,17 | — | — | — | 8,20 | 4,21 | 1,95 |
| **2** | 11,80 | 3,10 | 3,81 | 11,40 | 3,31 | 3,44 | 11,00 | 3,53 | 3,12 | 10,60 | 3,74 | 2,83 | — | — | — | 9,10 | 4,08 | 2,23 |
| **7** | 12,00 | 2,10 | 5,71 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | — | — | — | 12,00 | 4,10 | 2,93 |
| **12** | 12,00 | 1,38 | 8,70 | 12,00 | 1,66 | 7,23 | 11,80 | 1,94 | 6,08 | 11,70 | 2,23 | 5,25 | — | — | — | 11,40 | 2,74 | 4,16 |
| **WH-MDC16H6E5** | | | | | | | | | | | | | | | | | | |
| **Tamb** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** | **HC** | **IP** | **COP** |
| **LWC** | **30** | **30** | **30** | **35** | **35** | **35** | **40** | **40** | **40** | **45** | **45** | **45** | **50** | **50** | **50** | **55** | **55** | **55** |
| **-15** | 10,60 | 4,09 | 2,59 | 10,30 | 4,38 | 2,35 | 10,00 | 4,67 | 2,14 | 9,70 | 4,96 | 1,96 | 7,90 | 4,84 | 1,63 | — | — | — |
| **-7** | 11,90 | 4,03 | 2,95 | 11,40 | 4,43 | 2,57 | 10,80 | 4,83 | 2,24 | 10,30 | 5,22 | 1,97 | 9,00 | 4,88 | 1,84 | — | — | — |
| **2** | 13,50 | 13,74 | 0,98 | 13,00 | 3,96 | 3,28 | 12,40 | 4,18 | 2,97 | 11,90 | 4,40 | 2,70 | 9,80 | 4,44 | 2,21 | — | — | — |
| **7** | 16,00 | 3,21 | 4,98 | 16,00 | 3,74 | 4,28 | 16,00 | 4,27 | 3,75 | 16,00 | 4,80 | 3,33 | 14,50 | 5,33 | 2,72 | — | — | — |
| **12** | 16,00 | 2,31 | 6,93 | 16,00 | 2,69 | 5,95 | 16,00 | 3,07 | 5,21 | 16,00 | 3,45 | 4,64 | 15,90 | 3,89 | 4,09 | — | — | — |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

# Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

## Aquarea High Performance Mono-bloc H Generation Single Phase. Heating and Cooling - MDC • R410A Gas

| WH-MDC05H3E5 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Tamb** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** |
| **LWC** | **7** | **7** | **7** | **14** | **14** | **14** | **18** | **18** | **18** |
| **24** | 5,15 | 1,06 | 4,86 | 6,45 | 1,05 | 6,14 | 5,90 | 0,73 | 8,08 |
| **35** | 4,50 | 1,37 | 3,28 | 5,52 | 1,36 | 4,06 | 5,10 | 1,00 | 5,10 |
| **43** | 3,74 | 1,55 | 2,41 | 4,65 | 1,60 | 2,91 | 4,25 | 1,20 | 3,54 |
| **WH-MDC07H3E5** | | | | | | | | | |
| **Tamb** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** |
| **LWC** | **7** | **7** | **7** | **14** | **14** | **14** | **18** | **18** | **18** |
| **24** | 6,85 | 1,78 | 3,85 | 8,15 | 1,80 | 4,53 | 7,10 | 1,20 | 5,92 |
| **35** | 6,00 | 2,16 | 2,78 | 5,35 | 1,53 | 3,51 | 6,00 | 1,55 | 3,87 |
| **43** | 4,90 | 2,48 | 1,98 | 4,45 | 1,80 | 2,47 | 5,10 | 1,85 | 2,76 |
| **WH-MDC09H3E5** | | | | | | | | | |
| **Tamb** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** |
| **LWC** | **7** | **7** | **7** | **14** | **14** | **14** | **18** | **18** | **18** |
| **24** | 7,30 | 1,92 | 3,80 | 8,60 | 1,98 | 4,34 | 8,20 | 1,55 | 5,29 |
| **35** | 7,00 | 2,69 | 2,60 | 6,40 | 1,93 | 3,32 | 7,00 | 1,95 | 3,59 |
| **43** | 5,25 | 2,84 | 1,85 | 5,40 | 2,25 | 2,40 | 6,00 | 2,30 | 2,61 |
| **WH-MDC12H6E5** | | | | | | | | | |
| **Tamb** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** |
| **LWC** | **7** | **7** | **7** | **14** | **14** | **14** | **18** | **18** | **18** |
| **16** | 7,86 | 1,18 | 6,66 | 13,15 | 2,05 | 6,41 | 10,00 | 1,73 | 5,78 |
| **25** | 12,08 | 2,90 | 4,17 | 15,70 | 3,05 | 5,15 | 10,00 | 1,97 | 5,08 |
| **35** | 10,00 | 3,56 | 2,81 | 12,00 | 3,67 | 3,27 | 10,00 | 2,15 | 4,65 |
| **43** | 7,80 | 3,80 | 2,05 | 11,10 | 3,19 | 3,48 | 8,00 | 2,85 | 2,81 |
| **WH-MDC16H6E5** | | | | | | | | | |
| **Tamb** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** | **CC** | **IP** | **EER** |
| **LWC** | **7** | **7** | **7** | **14** | **14** | **14** | **18** | **18** | **18** |
| **16** | 9,20 | 1,62 | 5,68 | 16,40 | 2,58 | 6,36 | 12,20 | 2,45 | 4,98 |
| **25** | 14,40 | 3,92 | 3,67 | 19,20 | 3,83 | 5,01 | 12,20 | 2,79 | 4,37 |
| **35** | 12,20 | 4,76 | 2,56 | 15,00 | 4,98 | 3,01 | 12,20 | 2,96 | 4,12 |
| **43** | 7,75 | 3,40 | 2,28 | 13,80 | 5,95 | 2,32 | 9,70 | 4,00 | 2,43 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

## Aquarea T-CAP Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A Gas

| WH-MXC09H3E5 / WH-MXC09H3E8 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,00 | 3,24 | 2,78 | 9,00 | 3,51 | 2,56 | 9,00 | 3,91 | 2,30 | 9,00 | 4,30 | 2,09 | 9,00 | 4,73 | 1,90 | 9,00 | 5,16 | 1,74 |
| -7 | 9,00 | 2,71 | 3,32 | 9,00 | 3,16 | 2,85 | 9,00 | 3,62 | 2,49 | 9,00 | 4,07 | 2,21 | 9,00 | 4,27 | 2,11 | 9,00 | 4,46 | 2,02 |
| 2 | 9,00 | 2,36 | 3,81 | 9,00 | 2,51 | 3,59 | 9,00 | 2,78 | 3,24 | 9,00 | 3,05 | 2,95 | 9,00 | 3,56 | 2,53 | 9,00 | 4,07 | 2,21 |
| 7 | 9,00 | 1,64 | 5,49 | 9,00 | 1,86 | 4,84 | 9,00 | 2,16 | 4,17 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 |
| 25 | 13,60 | 1,50 | 9,07 | 13,60 | 1,71 | 7,95 | 13,20 | 1,93 | 6,84 | 12,80 | 2,14 | 5,98 | 12,00 | 2,41 | 4,98 | 11,20 | 2,67 | 4,19 |
| WH-MXC12H6E5 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 4,75 | 2,53 | 12,00 | 4,96 | 2,42 | 12,00 | 5,41 | 2,22 | 11,00 | 5,38 | 2,04 | 10,80 | 5,82 | 1,86 | 10,50 | 6,26 | 1,68 |
| -7 | 12,00 | 3,85 | 3,12 | 12,00 | 4,41 | 2,72 | 12,00 | 4,98 | 2,41 | 12,00 | 5,54 | 2,17 | 12,00 | 5,90 | 2,03 | 12,00 | 6,26 | 1,92 |
| 2 | 12,00 | 3,19 | 3,76 | 12,00 | 3,49 | 3,44 | 12,00 | 3,87 | 3,10 | 12,00 | 4,25 | 2,82 | 12,00 | 4,86 | 2,47 | 12,00 | 5,47 | 2,19 |
| 7 | 12,00 | 2,18 | 5,50 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 13,60 | 1,55 | 8,77 | 13,60 | 1,76 | 7,73 | 13,40 | 2,10 | 6,38 | 13,20 | 2,43 | 5,43 | 12,60 | 2,66 | 4,74 | 12,00 | 2,89 | 4,15 |
| WH-MXC12H9E8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 4,75 | 2,53 | 12,00 | 4,96 | 2,42 | 12,00 | 5,41 | 2,22 | 12,00 | 5,86 | 2,05 | 11,80 | 6,24 | 1,89 | 11,60 | 6,62 | 1,75 |
| -7 | 12,00 | 3,85 | 3,12 | 12,00 | 4,41 | 2,72 | 12,00 | 4,98 | 2,41 | 12,00 | 5,54 | 2,17 | 12,00 | 5,90 | 2,03 | 12,00 | 6,26 | 1,92 |
| 2 | 12,00 | 3,19 | 3,76 | 12,00 | 3,49 | 3,44 | 12,00 | 3,87 | 3,10 | 12,00 | 4,25 | 2,82 | 12,00 | 4,86 | 2,47 | 12,00 | 5,47 | 2,19 |
| 7 | 12,00 | 2,18 | 5,50 | 12,00 | 2,53 | 4,74 | 12,00 | 2,96 | 4,05 | 12,00 | 3,39 | 3,54 | 12,00 | 3,78 | 3,17 | 12,00 | 4,16 | 2,88 |
| 25 | 13,60 | 1,55 | 8,77 | 13,60 | 1,76 | 7,73 | 13,40 | 2,10 | 6,38 | 13,20 | 2,43 | 5,43 | 12,60 | 2,66 | 4,74 | 12,00 | 2,89 | 4,15 |
| WH-MXC16H9E8 | | | | | | | | | | | | | | | | | | |
| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 16,00 | 6,30 | 2,54 | 16,00 | 6,89 | 2,32 | 16,00 | 7,45 | 2,15 | 16,00 | 8,10 | 1,98 | 16,00 | 8,48 | 1,89 | 15,20 | 8,96 | 1,70 |
| -7 | 16,00 | 5,85 | 2,74 | 16,00 | 6,42 | 2,49 | 16,00 | 7,00 | 2,29 | 16,00 | 7,57 | 2,11 | 16,00 | 8,10 | 1,98 | 16,00 | 8,62 | 1,86 |
| 2 | 16,00 | 4,67 | 3,43 | 16,00 | 5,21 | 3,07 | 16,00 | 5,74 | 2,79 | 16,00 | 6,31 | 2,54 | 16,00 | 6,90 | 2,32 | 16,00 | 7,50 | 2,13 |
| 7 | 16,00 | 3,35 | 4,78 | 16,00 | 3,74 | 4,28 | 16,00 | 4,30 | 3,72 | 16,00 | 4,80 | 3,33 | 16,00 | 5,43 | 2,95 | 16,00 | 5,91 | 2,71 |
| 16 | 16,00 | 2,59 | 6,18 | 16,00 | 3,18 | 5,03 | 16,00 | 3,71 | 4,31 | 16,00 | 4,27 | 3,75 | 16,00 | 4,86 | 3,29 | 16,00 | 5,22 | 3,07 |
| 25 | 16,00 | 2,02 | 7,92 | 16,00 | 2,58 | 6,20 | 16,00 | 2,91 | 5,50 | 16,00 | 3,36 | 4,76 | 16,00 | 3,74 | 4,28 | 16,00 | 4,00 | 4,00 |

## Aquarea T-CAP Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A Gas

| Models | WH-MXC09H3E5 | | | | | | | | | WH-MXC12H6E5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 | 7 | 7 | 7 | 14 | 14 | 14 | 18 | 18 | 18 |
| 18 | 7,00 | 1,36 | 5,15 | 8,55 | 1,41 | 6,06 | 7,00 | 1,00 | 7,00 | 10,00 | 1,75 | 5,71 | 13,20 | 1,96 | 6,73 | 10,00 | 1,40 | 7,14 |
| 25 | 7,65 | 1,91 | 4,01 | 11,10 | 1,98 | 5,61 | 7,00 | 1,10 | 6,36 | 11,20 | 2,67 | 4,19 | 16,50 | 3,01 | 5,48 | 10,00 | 1,60 | 6,25 |
| 35 | 7,00 | 2,21 | 3,17 | 9,23 | 2,37 | 3,89 | 7,00 | 1,35 | 5,19 | 10,00 | 3,56 | 2,81 | 12,55 | 3,63 | 3,46 | 10,00 | 1,95 | 5,13 |
| 43 | 6,25 | 2,66 | 2,35 | 8,55 | 2,71 | 3,15 | 5,60 | 1,60 | 3,50 | 8,00 | 3,35 | 2,39 | 10,00 | 3,46 | 2,89 | 8,00 | 2,30 | 3,48 |
| Models | WH-MXC09H3E8 | | | | | | WH-MXC12H9E8 | | | | | | WH-MXC16H9E8 | | | | | |
| Tamb | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER | CC | IP | EER |
| LWC | 7 | 7 | 7 | 18 | 18 | 18 | 7 | 7 | 7 | 18 | 18 | 18 | 7 | 7 | 7 | 18 | 18 | 18 |
| 18 | 7,00 | 1,36 | 5,15 | — | — | — | 7,50 | 1,41 | 5,32 | — | — | — | 8,50 | 1,70 | 5,00 | 10,00 | 1,70 | 5,88 |
| 25 | 7,65 | 1,91 | 4,01 | — | — | — | 8,90 | 2,16 | 4,12 | — | — | — | 14,00 | 4,00 | 3,50 | 14,00 | 2,94 | 4,76 |
| 35 | 7,00 | 2,21 | 3,17 | — | — | — | 10,00 | 3,56 | 2,81 | — | — | — | 12,20 | 4,76 | 2,56 | 12,20 | 3,50 | 3,49 |
| 43 | 6,25 | 2,66 | 2,35 | — | — | — | 8,00 | 3,01 | 2,66 | — | — | — | 7,10 | 3,31 | 2,15 | 9,80 | 3,31 | 2,96 |

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

# Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

## Aquarea HT Bi-bloc F Generation Single Phase / Three Phase. Heating Only • R407C Gas

**WH-UH09FE5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 | 60 | 60 | 60 | 65 | 65 | 65 |
| -15 | 9,00 | 3,46 | 2,60 | 9,00 | 3,71 | 2,43 | 9,00 | 4,01 | 2,24 | 8,80 | 4,26 | 2,07 | 8,60 | 4,61 | 1,87 | 8,50 | 4,91 | 1,73 | 8,00 | 5,06 | 1,58 | 7,80 | 5,86 | 1,33 |
| -7 | 9,00 | 3,06 | 2,94 | 9,00 | 3,29 | 2,74 | 9,00 | 3,56 | 2,53 | 8,90 | 3,83 | 2,32 | 8,90 | 4,11 | 2,17 | 8,90 | 4,46 | 2,00 | 8,90 | 4,96 | 1,79 | 8,90 | 5,46 | 1,63 |
| 2 | 9,00 | 2,43 | 3,70 | 9,00 | 2,61 | 3,45 | 9,00 | 2,91 | 3,09 | 9,00 | 3,21 | 2,80 | 9,00 | 3,55 | 2,54 | 9,00 | 3,88 | 2,32 | 9,00 | 4,35 | 2,07 | 9,00 | 4,76 | 1,89 |
| 7 | 9,00 | 1,82 | 4,95 | 9,00 | 1,94 | 4,64 | 9,00 | 2,21 | 4,07 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 | 9,00 | 3,46 | 2,60 | 9,00 | 3,96 | 2,27 |
| 16 | 9,00 | 1,46 | 6,16 | 9,00 | 1,56 | 5,77 | 9,00 | 1,81 | 4,97 | 8,90 | 2,02 | 4,41 | 8,80 | 2,31 | 3,81 | 8,60 | 2,52 | 3,41 | 8,20 | 2,77 | 2,96 | 8,20 | 3,18 | 2,58 |
| 25 | 12,00 | 1,66 | 7,23 | 12,00 | 1,76 | 6,82 | 12,00 | 2,01 | 5,97 | 10,80 | 2,14 | 5,05 | 10,60 | 2,46 | 4,31 | 10,20 | 2,66 | 3,83 | 9,80 | 2,89 | 3,39 | 9,60 | 3,31 | 2,90 |

**WH-UH12FE5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 | 60 | 60 | 60 | 65 | 65 | 65 |
| -15 | 12,00 | 5,16 | 2,33 | 12,00 | 5,53 | 2,17 | 11,00 | 5,51 | 2,00 | 10,60 | 5,53 | 1,92 | 10,30 | 5,63 | 1,83 | 9,70 | 5,76 | 1,68 | 9,00 | 6,01 | 1,50 | 8,00 | 6,11 | 1,31 |
| -7 | 12,00 | 4,43 | 2,71 | 12,00 | 4,76 | 2,52 | 11,50 | 4,91 | 2,34 | 11,20 | 5,06 | 2,21 | 10,80 | 5,16 | 2,09 | 10,10 | 5,28 | 1,91 | 10,00 | 5,66 | 1,77 | 9,60 | 5,91 | 1,62 |
| 2 | 12,00 | 3,42 | 3,51 | 12,00 | 3,68 | 3,26 | 11,50 | 3,86 | 2,98 | 11,30 | 4,14 | 2,73 | 11,00 | 4,51 | 2,44 | 10,80 | 4,86 | 2,22 | 10,65 | 5,31 | 2,01 | 10,30 | 5,59 | 1,84 |
| 7 | 12,00 | 2,52 | 4,76 | 12,00 | 2,69 | 4,46 | 12,00 | 3,06 | 3,92 | 12,00 | 3,44 | 3,49 | 12,00 | 3,81 | 3,15 | 12,00 | 4,28 | 2,80 | 12,00 | 4,76 | 2,52 | 12,00 | 5,41 | 2,22 |
| 16 | 12,00 | 2,03 | 5,91 | 12,00 | 2,17 | 5,53 | 12,00 | 2,52 | 4,76 | 12,00 | 2,86 | 4,20 | 11,50 | 3,19 | 3,61 | 11,50 | 3,48 | 3,30 | 11,00 | 3,82 | 2,88 | 11,00 | 4,37 | 2,52 |
| 25 | 12,00 | 1,66 | 7,23 | 12,00 | 1,76 | 6,82 | 12,00 | 2,01 | 5,97 | 11,80 | 2,41 | 4,90 | 11,20 | 2,64 | 4,24 | 10,80 | 2,86 | 3,78 | 10,50 | 3,11 | 3,38 | 10,30 | 3,62 | 2,85 |

**WH-UH09FE8**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 | 60 | 60 | 60 | 65 | 65 | 65 |
| -15 | 9,00 | 3,46 | 2,60 | 9,00 | 3,71 | 2,43 | 9,00 | 4,01 | 2,24 | 8,80 | 4,26 | 2,07 | 8,60 | 4,61 | 1,87 | 8,50 | 4,91 | 1,73 | 8,00 | 5,06 | 1,58 | 7,80 | 5,86 | 1,33 |
| -7 | 9,00 | 3,06 | 2,94 | 9,00 | 3,29 | 2,74 | 9,00 | 3,56 | 2,53 | 8,90 | 3,83 | 2,32 | 8,90 | 4,11 | 2,17 | 8,90 | 4,46 | 2,00 | 8,90 | 4,96 | 1,79 | 8,90 | 5,46 | 1,63 |
| 2 | 9,00 | 2,43 | 3,70 | 9,00 | 2,61 | 3,45 | 9,00 | 2,91 | 3,09 | 9,00 | 3,21 | 2,80 | 9,00 | 3,55 | 2,54 | 9,00 | 3,88 | 2,32 | 9,00 | 4,35 | 2,07 | 9,00 | 4,76 | 1,89 |
| 7 | 9,00 | 1,82 | 4,95 | 9,00 | 1,94 | 4,64 | 9,00 | 2,21 | 4,07 | 9,00 | 2,46 | 3,66 | 9,00 | 2,76 | 3,26 | 9,00 | 3,06 | 2,94 | 9,00 | 3,46 | 2,60 | 9,00 | 3,96 | 2,27 |
| 16 | 9,00 | 1,46 | 6,16 | 9,00 | 1,56 | 5,77 | 9,00 | 1,81 | 4,97 | 8,90 | 2,02 | 4,41 | 8,80 | 2,31 | 3,81 | 8,60 | 2,52 | 3,41 | 8,20 | 2,77 | 2,96 | 8,20 | 3,18 | 2,58 |
| 25 | 12,00 | 1,66 | 7,23 | 12,00 | 1,76 | 6,82 | 12,00 | 2,01 | 5,97 | 10,80 | 2,14 | 5,05 | 10,60 | 2,46 | 4,31 | 10,20 | 2,66 | 3,83 | 9,80 | 2,89 | 3,39 | 9,60 | 3,31 | 2,90 |

**WH-UH12FE8**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 | 60 | 60 | 60 | 65 | 65 | 65 |
| -15 | 12,00 | 5,16 | 2,33 | 12,00 | 5,53 | 2,17 | 11,00 | 5,51 | 2,00 | 10,60 | 5,53 | 1,92 | 10,30 | 5,63 | 1,83 | 9,70 | 5,76 | 1,68 | 9,00 | 6,01 | 1,50 | 8,00 | 6,11 | 1,31 |
| -7 | 12,00 | 4,43 | 2,71 | 12,00 | 4,76 | 2,52 | 11,50 | 4,91 | 2,34 | 11,20 | 5,06 | 2,21 | 10,80 | 5,16 | 2,09 | 10,10 | 5,28 | 1,91 | 10,00 | 5,66 | 1,77 | 9,60 | 5,91 | 1,62 |
| 2 | 12,00 | 3,42 | 3,51 | 12,00 | 3,68 | 3,26 | 11,50 | 3,86 | 2,98 | 11,30 | 4,14 | 2,73 | 11,00 | 4,51 | 2,44 | 10,80 | 4,86 | 2,22 | 10,65 | 5,31 | 2,01 | 10,30 | 5,59 | 1,84 |
| 7 | 12,00 | 2,52 | 4,76 | 12,00 | 2,69 | 4,46 | 12,00 | 3,06 | 3,92 | 12,00 | 3,44 | 3,49 | 12,00 | 3,81 | 3,15 | 12,00 | 4,28 | 2,80 | 12,00 | 4,76 | 2,52 | 12,00 | 5,41 | 2,22 |
| 16 | 12,00 | 2,03 | 5,91 | 12,00 | 2,17 | 5,53 | 12,00 | 2,52 | 4,76 | 12,00 | 2,86 | 4,20 | 11,50 | 3,19 | 3,61 | 11,50 | 3,48 | 3,30 | 11,00 | 3,82 | 2,88 | 11,00 | 4,37 | 2,52 |
| 25 | 12,00 | 1,66 | 7,23 | 12,00 | 1,76 | 6,82 | 12,00 | 2,01 | 5,97 | 11,80 | 2,41 | 4,90 | 11,20 | 2,64 | 4,24 | 10,80 | 2,86 | 3,78 | 10,50 | 3,11 | 3,38 | 10,30 | 3,62 | 2,85 |

## Aquarea HT Mono-bloc G Generation Single Phase. Heating Only - MHF • R407C Gas

**WH-MHF09G3E5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 9,00 | 3,46 | 2,60 | 9,00 | 3,71 | 2,43 | 9,00 | 4,01 | 2,24 | 8,80 | 4,26 | 2,07 | 8,50 | 4,71 | 1,80 | 7,80 | 5,38 | 1,45 |
| -7 | 9,00 | 3,06 | 2,94 | 9,00 | 3,29 | 2,74 | 9,00 | 3,56 | 2,53 | 8,90 | 3,83 | 2,32 | 8,90 | 4,28 | 2,08 | 9,00 | 5,02 | 1,79 |
| 2 | 9,00 | 2,43 | 3,70 | 9,00 | 2,61 | 3,45 | 9,00 | 2,91 | 3,09 | 9,00 | 3,21 | 2,80 | 9,00 | 3,72 | 2,42 | 9,00 | 4,37 | 2,06 |
| 7 | 9,00 | 1,82 | 4,95 | 9,00 | 1,94 | 4,64 | 9,00 | 2,21 | 4,07 | 9,00 | 2,46 | 3,66 | 9,00 | 2,99 | 3,01 | 9,00 | 3,64 | 2,47 |
| 25 | 9,00 | 1,52 | 5,92 | 9,00 | 1,70 | 5,29 | 9,00 | 1,88 | 4,79 | 9,00 | 2,16 | 4,17 | 9,00 | 2,63 | 3,42 | 9,00 | 3,20 | 2,81 |

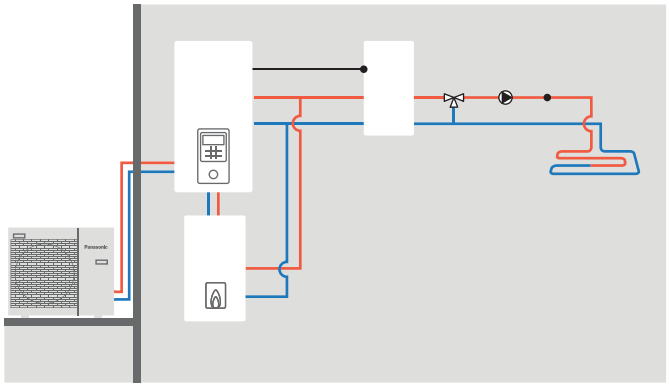
**WH-MHF12G6E5**

| Tamb | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP | HC | IP | COP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LWC | 30 | 30 | 30 | 35 | 35 | 35 | 40 | 40 | 40 | 45 | 45 | 45 | 50 | 50 | 50 | 55 | 55 | 55 |
| -15 | 12,00 | 5,16 | 2,33 | 12,00 | 5,53 | 2,17 | 11,00 | 5,51 | 2,00 | 10,80 | 5,49 | 1,97 | 9,70 | 5,52 | 1,76 | 8,00 | 5,61 | 1,43 |
| -7 | 12,00 | 4,43 | 2,71 | 12,00 | 4,76 | 2,52 | 11,50 | 4,91 | 2,34 | 11,20 | 5,06 | 2,21 | 10,10 | 5,06 | 2,00 | 9,60 | 5,43 | 1,77 |
| 2 | 12,00 | 3,42 | 3,51 | 12,00 | 3,68 | 3,26 | 11,50 | 3,86 | 2,98 | 11,30 | 4,14 | 2,73 | 10,80 | 4,66 | 2,32 | 10,30 | 5,13 | 2,01 |
| 7 | 12,00 | 2,52 | 4,76 | 12,00 | 2,69 | 4,46 | 12,00 | 3,06 | 3,92 | 12,00 | 3,44 | 3,49 | 12,00 | 4,10 | 2,93 | 12,00 | 4,97 | 2,41 |
| 25 | 12,00 | 2,03 | 5,91 | 12,00 | 2,36 | 5,08 | 12,00 | 2,69 | 4,46 | 12,00 | 3,02 | 3,97 | 12,00 | 3,61 | 3,32 | 12,00 | 4,37 | 2,75 |

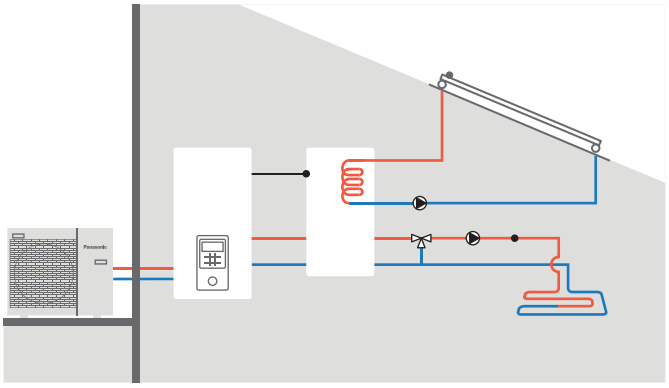
Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

# EXAMPLES OF INSTALLATIONS

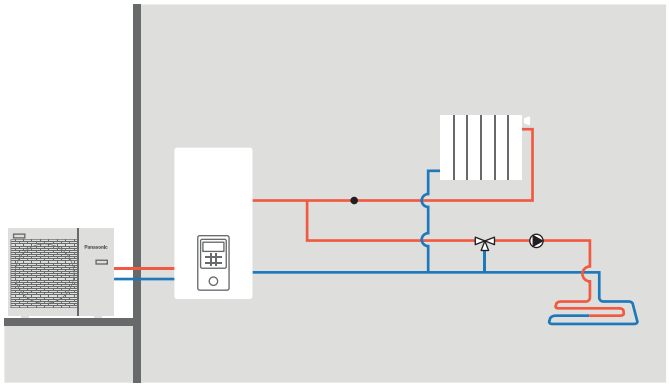
## Aquarea J and H Generation:
## Bivalent with buffer tank and mixing valve



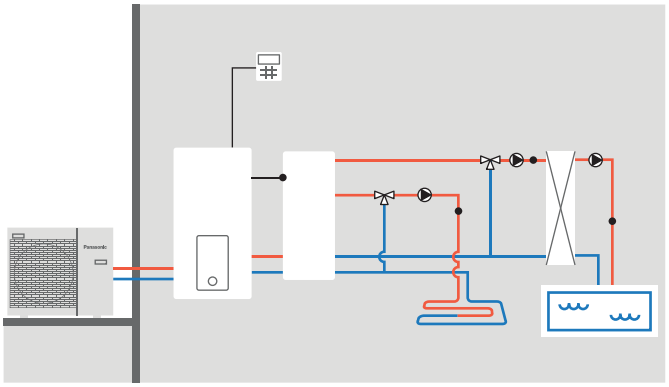
## Aquarea J and H Generation:
## Buffer tank with solar and mixing valve



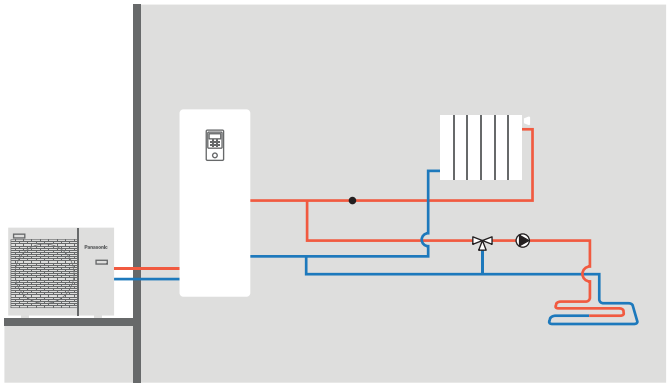
## Aquarea J and H Generation:
## 2 zones with external kit without buffer tank



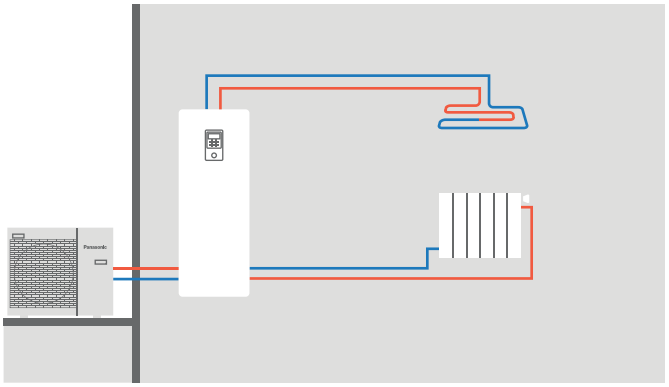
## Aquarea J and H Generation:
## 2 zones with external kit, buffer tank and swimming pool



## Aquarea All in One J and H Generation:
## 2 zones with external kit, without buffer tank



## Aquarea All in One 2 zones J and H Generation:
## 2 zones built-in, without buffer tank





# WELCOME TO DOMESTIC RANGE



Go green. Go clean. Go your way.
Panasonic Air Conditioners are designed to provide more than just comfort cooling to homes. They save energy. They purify your surroundings. They adjust cooling power to suit your living spaces and styles. Living an eco-lifestyle your way is now easier than ever.

# HIGHLIGHTED FEATURES



Panasonic has developed a range of products designed for you, better than ever before.
With its innovative design, high efficiency and advanced purification system, the Etherea range has been designed with your clients in mind.

Panasonic air conditioners provide more savings and more comfort.
We believe that going green shouldn't compromise on comfort.
Our super silent air conditioners guarantee the purified air to take care of you and your family. And, for a cleaner living environment, the nanoe™ X helps purify the air as well as your surroundings. Together, these breakthrough technologies define what Panasonic's Eco Clean Life Innovation is all about – innovations that improve our environment while making life as comfortable as possible.

## Energy saving




**Exceptional seasonal cooling efficiency based on the ErP regulation.**
Higher SEER ratings mean greater efficiency. Save all the year while cooling!




**Exceptional seasonal heating efficiency based on the ErP regulation.**
Higher SCOP ratings mean greater efficiency. Save all the year while heating!




**Econavi.**
Sunlight Sensor technology can detect and reduce the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.




**Inverter Plus.**
Inverter Plus System classification highlight the Panasonic highest performing systems




**Panasonic R2 rotary compressor.**
Designed to withstand extreme conditions, it delivers high performance and efficiency.




**Refrigerant gas R32.**
Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.

## High performance and healthy air




**nanoe™ X. Quality air for life.**
Panasonic's latest innovation nanoe™ X helps you deodorise, inhibit certain growth of bacteria and viruses that are harmful to you and your family's general well-being.




**PM2,5 filter.**
Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. This filter can catch PM2,5 particles including hazardous pollutants as well as house dust and pollen.




**Dust Collection Filter.**
This filter collects and retain particles suspended on the air, as result the air is cleaner in the room.




**Super Quiet.**
With Super Quiet technology our devices are much more quiet than a library (30dB(A)).




**Mild dry.**
The perfect humidity air controls the humidity level in the air to prevent over-dryness.




**More comfort with Aerowings.**
Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor.




**Down to -10°C in cooling mode.**
The air conditioner works in cooling only mode with an outdoor temperature of -10°C.




**Down to -15°C in heating mode.**
The air conditioner works in heat pump mode with an outdoor temperature is as low as -15°C.




**Summer House.**
This innovative function keeps the house at 8/10 or 8/15°C to avoid freezing pipes during the winter. This function is highly appreciated in summer house or week end houses.




**R410A/R22 renewal.**
The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.




**R22 renewal.**
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.




**5 Years compressor warranty.**
We guarantee the outdoor unit compressors in the entire range for five years.

## High connectivity




**Domestic integration to P-Link - CZ-CAPRA1.**
Can connect all ranges to P-Link. Full control is now possible.




**Internet Control.**
A next generation system providing a user-friendly remote controller of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.




**BMS connectivity.**
The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

# R32 REFRIGERANT GAS



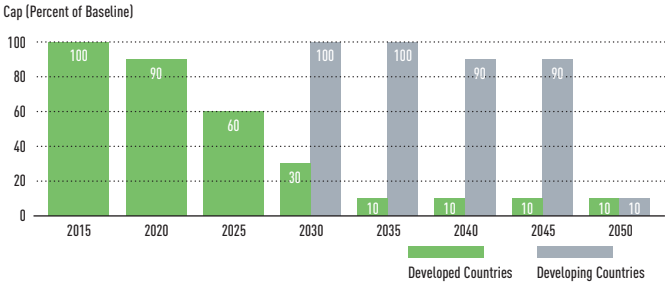
## A 'small' change that changes everything

Not everyone is ready for change. Indeed, there are some who resist the future.
But at Panasonic we will keep believing in technologies that improve people's lives.
Which is why we are now presenting a generation of air conditioners with R32, an innovative refrigerant in all ways imaginable: it is easy to install, and compared to most other refrigerants it has a much lower environmental impact and saves energy.
The result? Greater wellbeing for people and for the planet. Because there will always be people who resist change. But we say: Goodbye yesterday. Hello R32.

### Today Panasonic. Tomorrow everyone.

European regulation EU 517/2014 makes the replacement of fluorinated gases (F-gases) compulsory, such as R410A, for environmental reasons, although it also grants a transition period from 2017 to 2030.
Must we wait? No. Our commitment to innovation is not hampered by dates.
Which is why we are jumping the gun and are now presenting our generation of air conditioners that employ the R32 refrigerant.

**HCFC phase-down schedule.**



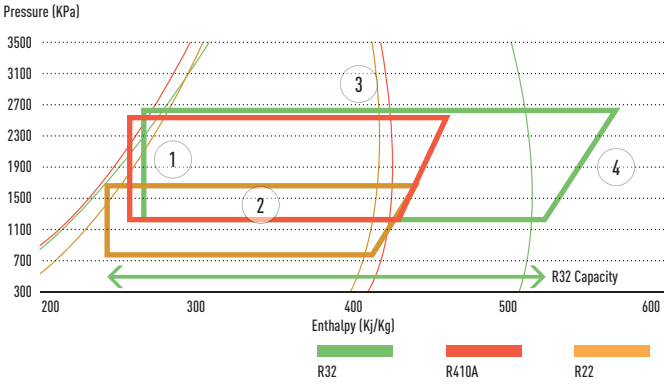

* By replacing R22 with R32 we are significantly reducing the ozone depletion potential of our air conditioners. The use of air conditioning is rapidly increasing in developing countries thus making it increasingly necessary to use refrigerants with low global warming potential.

## Goodbye yesterday

The generation of air conditioners with R32 represents innovation in every way.
Shall we list them?

### 1. Installation innovation.

- Extremely easy to install, practically the same as R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with the R32)
- This refrigerant is 100% pure, which makes it easier to recycle and reuse




1. Expansion. 2. Evaporization. 3. Condensation. 4. Compression.

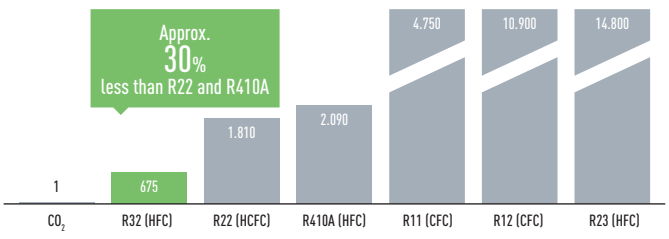
### 2. Environmental innovation.

- Zero impact on the ozone layer
- 75% less impact on global warming vs R410A

| | R410A | R32 |
|---|---|---|
| Composition | Blend of 50%. R32 + 50% R125 | 100% R32. (No blend) |
| GWP (Global Warming Potential) | 2087,5 | 675 |
| ODP (Ozone Depletion Potential) | 0 | 0 |

R32 is a refrigerant with just one-third the global warming potential of R410A, meaning less risk of damage to the environment.

**100 Year global warming potential of different refrigerants.**

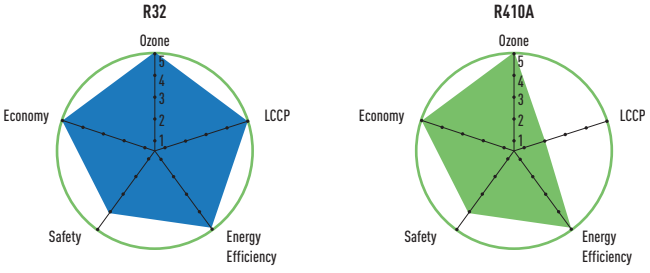



IPCC Fourth Assessment Report. Values for 100 years warming potential.

### 3. Economic and energy consumption innovation.

- Lower cost and greater savings:
  - 30% less refrigerant
- Higher energy efficiency than R410A

LCCP: Life Cycle Climate Performance (lower global warming impact). Safety: Low toxicity level.



# ETHEREA STYLISH AND OUTSTANDING FEATURES



Etherea with nanoe™ X air-purifying system: outstanding efficiency A+++, comfort (Super Quiet technology only 19dB(A)) and healthy air combined with a breakthrough design.

ETHEREA

**1** **Built-in WLAN**

Ready to connect the unit to internet to be controlled by smartphone with Panasonic Comfort Cloud App. Control, monitor, easy schedule with easy interface.

**2** **Even cleaner air with nanoe™ X**

New nanoe™ X is an outstanding air purifying bringing much higher performance for better indoor air quality.

**3** **Simple but elegant design**

To suit European interior, we design the indoor to be simple and clean. Elegant finishing with white matt or silver color.

**4** **New infrared control**

Enjoy innovative design at your fingertips with the new stylish and sleek Backlit Sky Controller. Bigger screen and easier to use.

## Etherea. Perfect outside, perfect inside

**The Etherea has an astonishingly slim design.**
A breakthrough design that combines perfectly with the most modern environments. We have selected the best materials and processes for a refined design. And now they're available in an elegant metallic or matt silver and matt or gloss white.

**Get the best for your health with Etherea and nanoe™ X.**
Using nanoe™ X with nano-technology, nano-sized electrostatic atomised water particles purify the air in the room. It works effectively on airborne and adhesive micro-organisms such as certain types of bacteria, viruses and mould thus ensuring a cleaner living environment.

## Etherea performance: highest energy class

Economical, environment-friendly operation high SCOP (Seasonal Coefficiency of Performance).
Original Panasonic Inverter technology and a high performance compressor provide top-class operating efficiency. This lets you enjoy lower electricity bills while contributing to environmental protection.




## Enjoy innovative design at your fingertips with the new stylish and sleek Backlit Sky Controller

With fast access to key operations and a smooth gliding cover revealing more options, controlling your settings has become simple and intuitive. With a width of 58,9mm and a length of 164,7mm, the Sky Controller fits comfortably into your hand.

**Backlit led screen**
The Sky Controller reveals its settings in a better light thanks to the new backlit screen. Now you can adjust your settings without having to switch on the lights.

**Distinctive sliding cover**
A smooth sliding cover does not only enhance the remote's clean lines, but keeps the buttons free from dirt and smudges.

**Precise temperature control**
With the Sky Controller's 0,5°C temperature control, enjoy more precise temperature regulation and experience greater comfort.



# HEATCHARGE. ENERGY CHARGE SYSTEM



Energy class A +++ and offers maximum comfort and energy savings. This powerful air heat pump is designed for commercial and residential climate that places extremely high demands on the heating system.

heatcharge

## Heating power and efficiency

- Energy Charge System. Heat storage unit which features Non-Stop heating and fast heating function
- ´Higher efficiency and comfort with Econavi sunlight detection and human activity detection
- nanoe™ X air purifying system
- More powerful airflow to quickly reach the desired temperature

### Panasonic's full line-up of A+++ heat pumps.

In response to the Kyoto Protocol, the European Union set some challenging targets for the reduction in greenhouse-gas emissions. By the year 2020, across the member states, the EU wants to have achieved the following objectives:

- A 20% cut in greenhouse gas emissions (from 1990 base levels)
- The share of renewables in the energy mix to increase by 20%
- An overall reduction of 20% in energy consumption

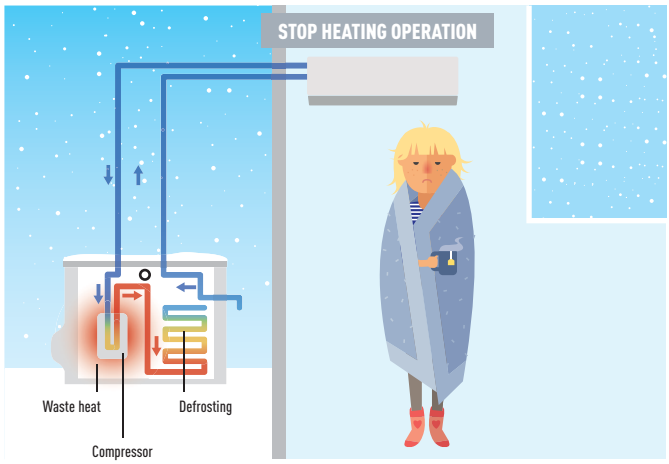
## Powerful, reliable heating even at low ambient winter temperatures

When the air conditioner is operating, the compressor, which is the power source of the unit, generates heat. Until now, this heat was released into the atmosphere. Panasonic focused on this waste heat!
Heatcharge is a unique, innovative Panasonic technology that stores this waste heat in the compressor and effectively uses it as heating energy. This lets you enjoy a new level of air conditioner heating power and efficiency.

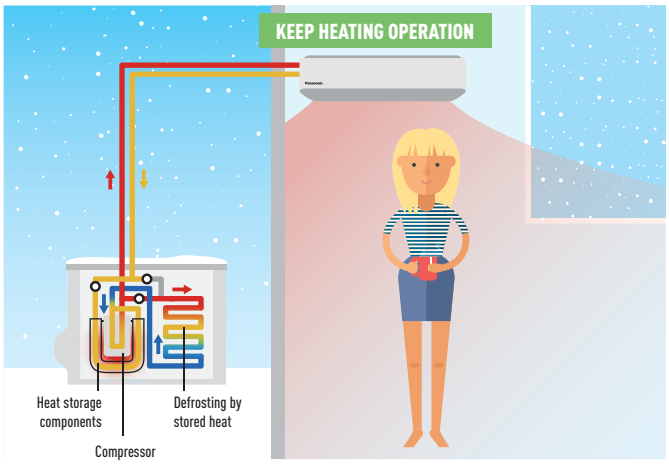
### Constant heating.

Using stored heat provides stable heating with less drop in temperature. Even when heating operation stops during defrost operation, stored heat continues to constantly warm the room. This eliminates the previous discomfort due to the temperature dropping when heating temporarily stops to ensure stable air conditioner heating.

**Conventional. The room gradually becomes cold.**
Defrost operation: About 11 to 15 min. Fall in room temperature: About 5 to 6 °C

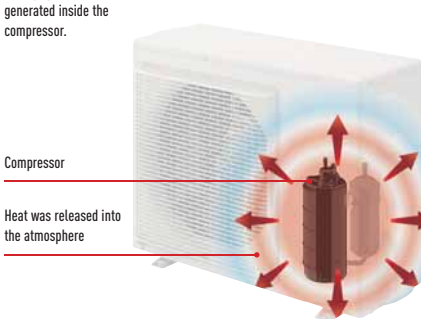



**Heatcharge. The room is thoroughly warmed.**
Defrost operation: About 5 to 6 min. Fall in room temperature: About 1 to 2 °C




* Defrost operation time and how low room temperature falls differ depending on the environment in which the unit is being used (how insulated and airtight and room is), operation conditions, and temperature conditions.
* Output air temperature falls during defrost operation. How low room temperature falls differs depending on the environment in which the unit is being used (how insulated and airtight and room is), operation conditions, and temperature conditions.
* In environments where a lot of frost accumulates, heating may stop during defrost operation.

**Conventional.**
During operation, heat is generated inside the compressor.




**Heatcharge.**
Heat generated by the compressor is stored inside and used to warm the refrigerant to efficiently increase heating power.




**Heatcharge.**
The compressor is wrapped and exhaust heat is used for charging.



# WALL MOUNTED TZ
# COMPACT STYLE



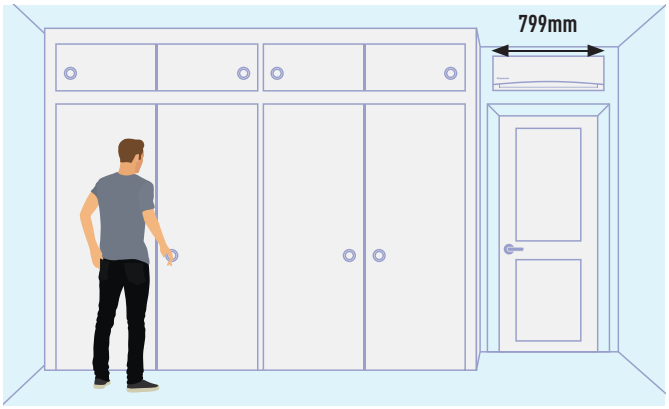
## TZ compact indoor size.

The TZ indoor units have compact size. With 799mm of width, you can put the air conditioner on the top of the door.

### TZ Inverter models powerful and efficient

**Heating power and efficiency.**

- R32 gas is more environmentally friendly than R410A
- Complete line-up of standard Inverter models
- Super Quiet! Only 20dB(A)
- High energy savings
- Long connection distance (from 15m up to 30m)
- Wired Controller (optional)







### PM2,5 Filter

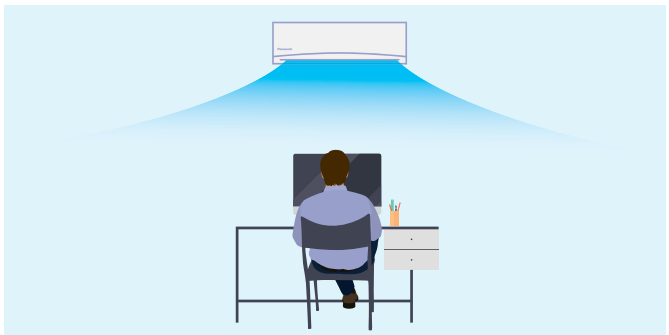
PM2,5 Filter. Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. This filter can catch PM2,5 particles including hazardous pollutants as well as house dust and pollen. It is able maintain clean the air of the room by deodorization too.

### Aerowings

Panasonic's Aerowings feature incorporates two independent blades that concentrate airflow to cool you down in the shortest time possible. This also helps distribute cool air evenly throughout the room.

**Superior airflow control. Indirect airflow after reaching set temperature.**

Aerowings features two independent blades that give you more control over the direction of the airflow.
Without Aerowings, with direct airflow, the target never changes, so you can easily begin to feel too cold as you are subjected to the continuous icy blast.

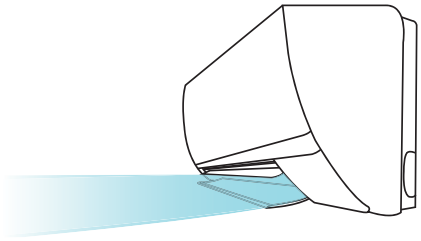


**Comfort that goes on and on with Shower Cooling.**

After reaching a set temperature, the Aerowings twin blades direct air towards the ceiling to create the Shower Cooling effect. Then, the Human Activity Sensor detects the level of activity and adjusts the temperature to keep you comfortable.

## Panasonic Air Conditioners with Aerowings feature an indoor design with wider intake grille and super-high fan speed to produce bigger air volume.

**For Shower Cooling.**



This ensures cool air is evenly distributed throughout the room and you can stay comfortable without experiencing continuous direct cooling.

# FLOOR CONSOLE. EFFICIENT COMFORT AND CLEAN AIR ALL YEAR ROUND




DESIGN AWARD 2019

The iF Product Design Awards are among the most prestigious awards for product design excellence. Winning the award thanks to its highly intelligent functionality, the Panasonic Floor Console is the ideal air-conditioning system for domestic and commercial applications.

## Floor Console with new nanoe™ X air-purifying system: outstanding efficiency A++, comfort (Super Quiet technology only 20dB(A)) and healthy air combined with a breakthrough design.

### 1 Designed to follow the high European demands

Superquiet operation, high efficiency and purifying the air.

### 2 Superquiet operation

When the system reaches its set temperature, the unit will operate at only 20dB(A). Because creating a comfortable home is not only by temperature, but also a quiet atmosphere matters.

### 3 Ready to meet future demands

Fully developed to work with R32 refrigerant. R32 gas is more environmentally friendly than R410A.

### 4 New infrared control

Enjoy innovative design at your fingertips with the new stylish and sleek Backlit Sky Controller. Bigger screen and easier to use.

### Easy to integrate into your home

A breakthrough design that combines perfectly with any style. We have carefully selected materials and processes to create an elegant design. Compact in size and with a stylish design, the new Floor Console will easily integrate into your home's interior decoration. There are four options available:



Floor Installation | Wall Installation | Half Concealed | Concealed

### The perfect solution for the replacement of old boiler heating systems

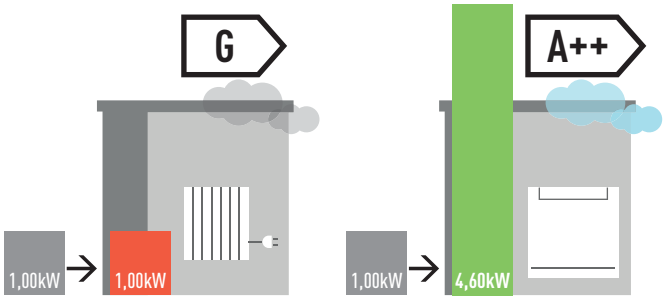


### Double airflow for improved comfort and temperature dispersion: through the top for an efficient operation




### High Energy efficiency class A++

Heat pump brings the outdoor heat energy inside. The new floor console can provide heat inside even when it is -15°C outside.




* SCOP on heating mode for Floor Console Type KIT-Z25-UFE and KIT-Z35-UFE compared with electrical heaters at +7°C.

### New design and new infrared control



# NANOE™ X. QUALITY AIR FOR LIFE




## 1 Deodorises

nanoe™ X deodorises strong and unpleasant odours that cause uneasiness so you can enjoy a more pleasant living space for greater well-being.

## 2 Inhibits certain Bacteria & Viruses

nanoe™ X inhibits the growth of certain allergens, bacteria and viruses in your home, maintaining a cleaner home for your children.

## 3 Moisturing Skin

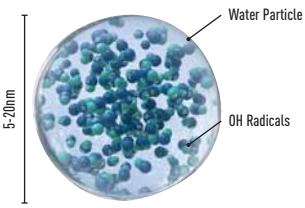
Helps retain the moisture of the skin.

## nanoe™ X deodorises and inhibits certain bacteria and viruses

**nanoe™ X contains 10X times [1] more OH radicals.**

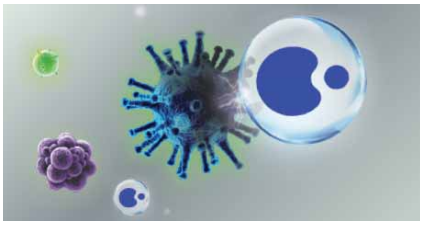
The newly developed nanoe™ X device produces 10x times more OH radicals (4800 billion) [1] than regular nanoe™ device.
Greater amounts of OH radicals contained in nanoe™ X lead to outstanding effects in bacteria, viruses and allergens inhibition as well as deodorisation. A fresher and cleaner home awaits you.

1) Based on Panasonic Survey.




**4800 BILLION OH RADICALS / PER SECOND**

## How nanoe™ X keeps air fresh and clean



nanoe™ X reaches bacteria.



OH radicals take away hydrogen from bacteria.



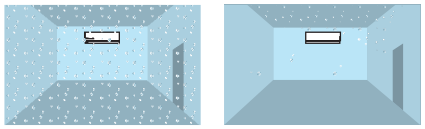

OH radicals transform hydrogen in bacteria to water and inhibit bacterial activity.

No matter where you are on planet earth, air is an essential part in your life. We're working to help every person enjoy better health and comfort by nanoe™ Xair purifier technologies.

## Characteristics of nanoe™ X Technology

**1. Long Life.** 6 times longer lifespan than general negative ion. nanoe™ X contains moisture around 1000 times more than general negative ion. Being contained in water particles, it has a longer lifespan and is able to spread for a long distance.

**Comparison of distribution in the room**

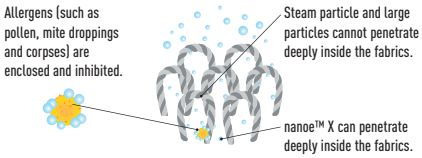


**nanoe™ X.**
nanoe™ X spreads to every corner.

**General negative ion.**
Ions decay before spreading throughout the room.

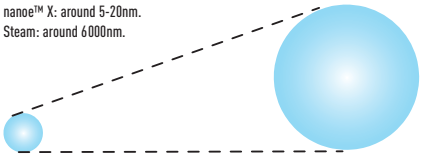
**2. Water-originated.** nanoe™ X comes from condensed moisture in the air so that water replenishment for nanoe™ X generation is not required.

**nanoe™ X is tiny enough to penetrate into clothes for inhibiting mould and deodorizing.**



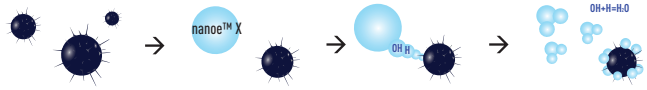

**3. Microscopic Scale.** With the size of one-billionth of a meter, nanoe™ X is much smaller than steam. It can deeply penetrate into cloth fabrics to deodorize.

* 1nm (nanometer) = one billionth of meter.




## How does nanoe™ X technology help you?

**1. Virus / Bacteria / Pollen inhibition.** Inhibits certain virus. Influenza virus 99,9% inhibited.




Virus / bacteria / Pollen is suspended in indoor air.

nanoe™ X approach and capture those objects.

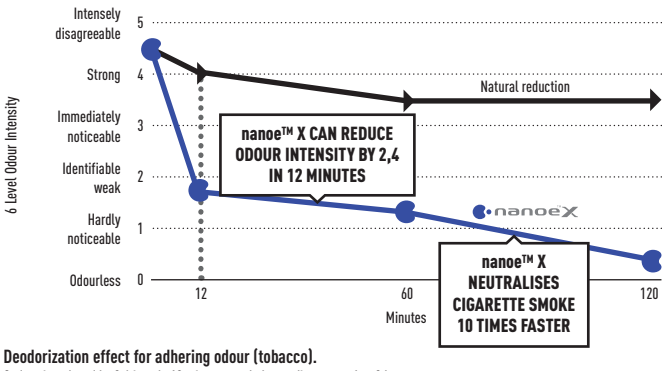
nanoe™ X metamorphose structure of Virus / Bacteria / Pollen. (Remove hydrogen.)

Completion inhibition.

**The effectiveness of nanoe™ X.**

| Tested contents | | Result (deactivate) | Testing condition | | Tested laboratory / company | Report doc No. |
|---|---|---|---|---|---|---|
| | | | Size | Time | | |
| Airborne | Virus (Coliphage) | 99% | 10m² | 6h | Kitasato research center for Environmental science | KRCES 24_0300_1 |
| | Bacteria (Staphylococcus aureus) | 99% | 10m³ | 4h | Kitasato research center for Environmental science | KRCES 21_0142 |
| Adhesive | Virus (Coliphage) | 99% | 10m² | 8h | Japan food research laboratories | 13001265005-01 |
| | Virus (Influenza) | 99,9% | 1m³ | 2h | Kitasato research center for Environmental science | KRCES 21_0084_1 |
| | Bacteria (Staphylococcus aureus) | 99% | 10m² | 8h | Japan food research laboratories | 13044083003-01 |
| | Tobacco odour | Deodorized in 2h | 10m² | 2h | Panasonic analysis center | BAA33-130125-D01 |
| | Cedar pollen | 99% | 45L | 2h | Panasonic analysis center | E02-080303IN-03 |

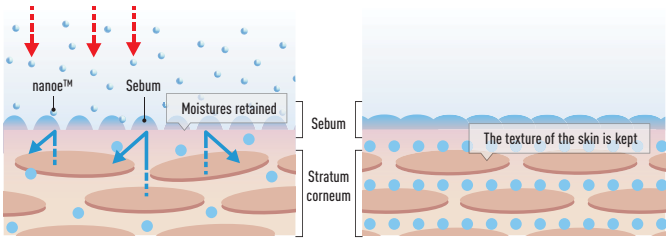
**2. Deodorization.** Deodorization effect works with the smell adhered at objects like sofa and curtains. Reduce 90% Odour (tobacco smell) after 120 minutes.




**Deodorization effect for adhering odour (tobacco).**
Oudour is reduced by 2,4 in only 12 minutes, and almost disappear after 2 hours.
The deodorization effect will vary subject to the surrounding environment (temperature / humidity), operation time, types of smell and clothes.

- Test Laboratory: Panasonic Corporation Analysis Center. - Test Methodology: Verifying with 6-level odour intensity indication in 10m² test room. - Deodorization Method: nanoe™ X emit. - Test Subject: Adhering Tobacco Smell. - Test Result: 1,2 level of odour intensity is decreased after 120 minutes. - Report No.: 4AA33-160615-N04.

**3. Moisturing Skin.** Helps retain the moisture of the skin.




**With nanoe™ X.**
nanoe™ X hydrate the sebum on the skin to prevent the loss of moistures.

**After 28 days**
Skin is hydrated that nanoe™ X keeps the texture of the skin.

Test Laboratory: FCG Research Institute Inc. Report no. 19104.

**Reliable technology chosen by the world.**
The cutting edge technology of Panasonic's nanoe™ purifying technology has been chosen by Lexus to equip its vehicles for clean indoor air.



# PANASONIC R2 ROTARY COMPRESSOR




## Making the world a cooler place since 1978

Panasonic Rotary Compressors for Room Air Conditioners have been installed in the most demanding environments around the world. Designed to withstand extreme conditions, Panasonic Rotary delivers high performance, efficiency and reliable service, no matter where you are. Panasonic, the world's largest manufacturer of rotary compressors.

**Why is the Panasonic R2 Rotary Compressor so efficient?**

1. High efficiency motor. The premium silicon steel motor meets industry efficiency requirements.
2. Improved lubrication of high volume oil pump. The extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication.
3. Accumulator has larger refrigerant capacity. The larger accumulator accomodates generous refrigerant amounts needed in longer line length installations.

## R2 Compressor Value

**About R2 Compressor.**

Built upon 36 years of compressor design and production experience, R2 is the next generation of Rotary Compressors for residential central air conditioning. The technology improvements, enhanced materials and simple design ensure R2 compressors are reliable, efficient and quiet. The R2 Compressor delivers quality, comfort and peace of mind in homes around the world.
Panasonic's Rotary Compressors have been life tested in some of the world's most demanding environments. Proven for years many of the most demanding areas of the world, the R2 design is the compressor of choice by contractors and homeowners in these challenging climates. For the high performance that home-owners demand, R2 Rotary Compressors are considered by the industry experts.

**Leading Technology.**

Used in over 80% of cooling solutions globally, rotary is the world's dominant residential air conditioning compression technology. Panasonic is the leading rotary and residential AC compressor manufacturer in the world, with over 200 million compressors produced.

**Benefits.**

Central air conditioning delivered with a Panasonic R2 Rotary Compressor ensures a superior level of comfort at an economical cost.

The secret is flexibility. Panasonic Inverter air conditioners have the flexibility to vary the rotation speed of the compressor. This allows it to use less energy to maintain the set temperature while also being able to cool the room quicker at start up.
So you can enjoy better savings on your electricity bills while maintaining cooling comfort.

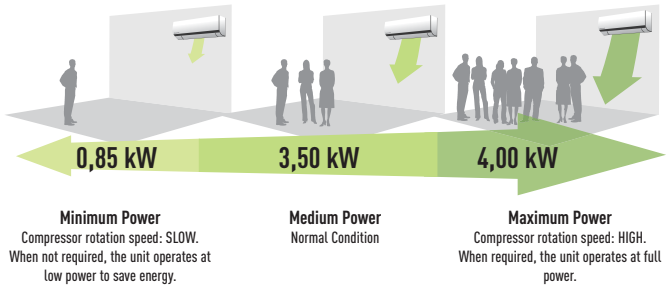
## Inverter technology

### Great energy-saving performance. Reduces electricity consumption.

Panasonic Inverter air conditioners are designed to give you exceptional energy savings and performance. At the start up of an air conditioner's operation, a boost in power is required to reach the set temperature. After the set temperature is reached, less power is required to maintain it. The Panasonic Inverter air conditioner varies the rotation speed of the compressor. This provides a highly precise method of maintaining the set temperature.

### Constant Comfort.

Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels – thus ensuring constant comfort.

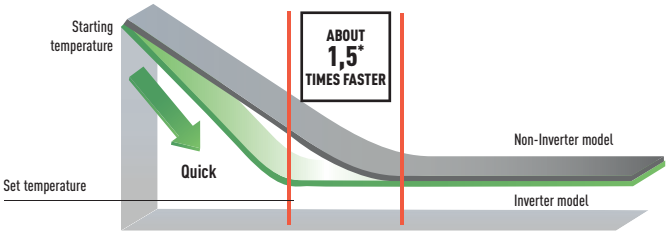



Graph shows the 1,5HP Inverter model's wide power output range during cooling./ Graph shows the 1,5HP Inverter model's wide power output range during cooling.

### Quick Comfort.

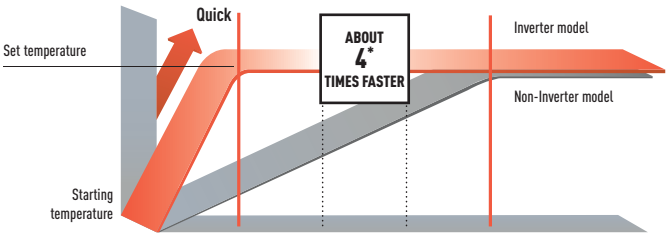
Panasonic Inverter air conditioners can operate with higher power during the start up period to cool the room 1,5 times faster and heat the room 4 times faster than non-Inverter models.

**Comparison of Cooling Speed**




* 1,5HP Inverter vs. non-Inverter. Outside room temperature: 35˚C; setting temperature: 25˚C

**Comparison of Heating Speed**



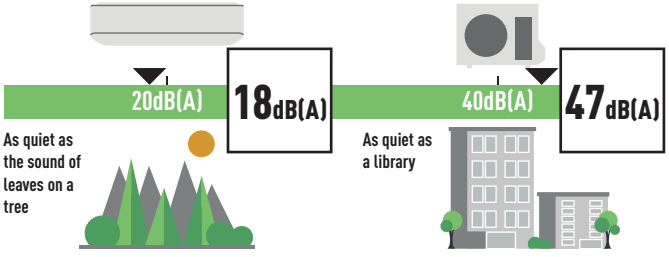

* Comparison of 1,0HP Inverter and Non-Inverter. Outside room temperature: 2˚C ; Setting temperature: 25˚C

## Silent ambient and relaxing atmosphere 18 dB(A)

We have succeeded in making one of the most silent air conditioners on the market. Panasonic Inverter air conditioner's indoor operating noise has been reduced as the Inverter constantly varies its output power to enable more precise temperature control.

**Quiet Mode reduces operation noise to a quiet 18dB(A)* for a comfortable night's sleep.**

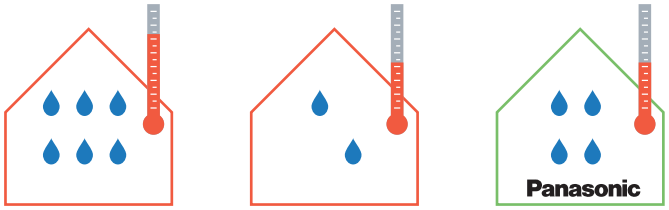
**Noise is 5dB(A) quieter than during regular operation.**




Heatcharge: In the Quiet Mode during cooling operation with low fan speed.

## Mild Dry Cooling

Mild dry cooling maintains a higher level of relative humidity of up to 10% compared to regular cooling operation. This helps to reduce skin dryness - and a dry throat.




Lowers room temperature while maintaining high humidity.

# R22 RENEWAL. PANASONIC STANDARD UNITS CAN BE INSTALL ON EXISTING R22 PIPINGS



## An important drive to further reduce the potential damage to our ozone

- All Panasonic standard SKE, TKE and UKE units can be install on existing R22 pipings
- No need of additional accessories (only pipe reduces)
- Approximately 30% energy saving compared to R22 units

### Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to be introduced with as minimum an effect on businesses and cash reserves as possible.
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A / R32 systems.
By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.
By installing a new high efficiency Panasonic R410A / R32 system you can benefit from around 30% running cost saving compared to the R22 system.

Yes...
1. Check the capacity of the system you wish to replace
2. Select from the Panasonic range the best system to replace it with
3. Follow the procedure detailed in the brochure and technical data

Simple...

R22 - The reduction of Chlorine critical for a cleaner future.



### Guidance on re-using of existing R22 piping for a new R410A / R32 installation

**1. Precaution.**

The existing R22 piping can be re-used for a R410A / R32 system installation if the following conditions are met and the piping are finally verified to be:
- Dry (no moisture remained in the piping)
- Clean (no dust remained in the piping)
- Tight (no refrigerant leak at the joining and piping)

**2. Conditions.**

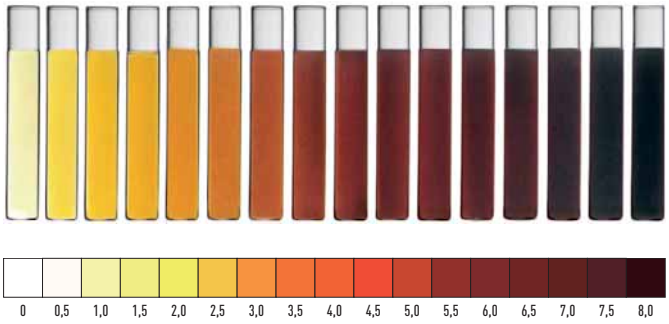
- Recover the refrigerant and oil.
  Operate "force cooling" according to the recommended operation time, regardless of the piping length.
  Single split: 10min.
  Multi Split: 30min.
  After that, carry out "pump down" to recover the refrigerant and oil from the existing R22 system

* Note: If pump down operation is not possible due to the malfunction of the system, flush and wash the existing piping to collect back the oil and dirt inside the system.

- Check the oil condition.
  If the oil contains dirt, wash the existing pipes
- Check the oil colour.
  After pump down, use a cotton bud to wipe the oil from the existing pipe.
  If the oil colour is higher than ASTM3, use a new pipe as re-use of old piping is not allowed
- Check pipe thickness.
  Make sure that the pipe thickness is more than 0,8mm.

If the thickness is less than 0,8mm, use a new pipe
- Rework the flare for R410A / R32 connection.
  Do not reuse the old flare nuts.

**Deterioration Criteria for Refrigerant Oil**




Make sure to use the new flare nuts attached to the R410A / R32 system

* Note: If the existing piping size is 1/4" (6,35mm) and 1/2" (12,7mm), and the new R410A / R32 system is 1/4" (6,35mm) and 3/8" (9,52mm), use a pipe reducer connected at indoor and outdoor unit.

**3. Applicable Model.**

Panasonic single split room air conditioner from CS/CU-RE/UE/YE/XE/CE/NE/E*NKE and PKE series onwards.
Panasonic multi split room air conditioner from CU-2E/3E/4E/5PBE series onwards.

| | | Liquid | 1/4 (6,35) | | |
|---|---|---|---|---|---|
| | | Gas | 3/8 (9,52) | 1/2 (12,70) | 5/8 (15,88) |
| Split | 16 / 20 / 25 / 35 | 1,6 - 3,50kW | ✔ | ▲ | ✖ |
| | 42 / 50 / 60 | 4,2 - 6,00kW | ✖ | ✔ | ▲ |
| | 71 | 6,8 - 7,50kW | ✖ | ✖ | ✔ |

✔ Standard piping connection with current piping length and refrigerant charge rules.
▲ This combinations is allowed respecting maximum piping length and refrigerant charged declared in model installed as new.
✖ This combinations is not allowed as it is out of piping diameter.

# NEW PANASONIC COMFORT CLOUD

More than a control in your phone.

**NEW BOUNDARIES IN CONTROL** | **ENERGY MONITOR AND STATISTICS** | **SCALABILITY AND USERS MANAGEMENT**

Panasonic

Download on the App Store

ANDROID APP ON Google play




## Advanced smartphone control for domestic range.

Control air to air heat pump operation with Panasonic Comfort Cloud plus additional functions only available thru the Cloud from wherever and whenever. One user can manage up to 200 units and also set up different user and rights. Also energy monitor is possible giving the chance to learn how to reduce even more the operating cost.



## New possibilities, new applications

1. **Families:** Different users can be set up, such as each child can manage their own room only. In the case of second houses, this can be remotely pre-cooled or pre-warmed. Or just turned OFF remotely if someone forget and left the system on.
2. **Multi tenant owner:** Can manage different sites, up to 200 units with just one smartphone. Knowing the consumption of each place and remotely have error codes remotely for better and quick maintenance.
3. **Small and medium sized offices:** Owner can control different rooms of the office easily and give unit by unit access to their staff. Also providing information to know where energy might be wasted for heating and cooling and promoting best comfort practices.

## 1 New boundaries in control

With Panasonic Comfort Cloud the user can manage all functions of the heat pump plus even more. All functions that your heat pump can include like nanoe™ X air purifier, air Flow direction, speed, temperature setting, mode,... all these can be simply managed through Panasonic Comfort Cloud. Also some other additional functions can be easily managed through the App including:

- All ON/OFF at once. For sites with more than one unit in one site, user can turn them all ON or OFF with just one click
- Set weekly timer. Set up to 6 events per day, 42 in a week, easy, intuitive and fast
- Pre-heat or cool. Control your house or office comfort - before you arrive!
- Error code notification. If trouble occurs, error notification or maintenance code is shown



## 2 Energy monitor and statistics

Knowing the energy each unit uses when operating is key to see opportunities to reduce the energy bill. Panasonic Comfort Cloud stores the energy consumption* of each unit, which can then be shown in easy and powerful statistics graphs. This function is available from VKE, TKE and UKE generation.

With the weekly timer the operation can be adjusted to optimize the usage of the energy.

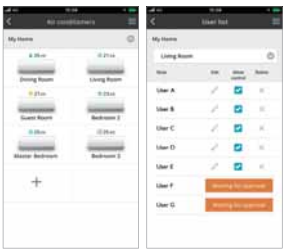
*Estimated energy consumption data accuracy is depending on power supply quality.



## 3 Scalability and users management

Easily to include additional units and locations as well as including several users with different access rights. This creates more possibilities to manage family house, a second house and also provides opportunities for small/medium sized offices or multi-tenant properties.

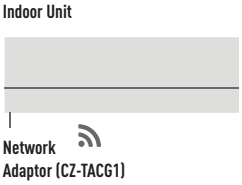
- Up to 200 units. Up to 10 Locations (20 units per site)
- User's control rights. Main user can set up other users with limited rights on units and set up

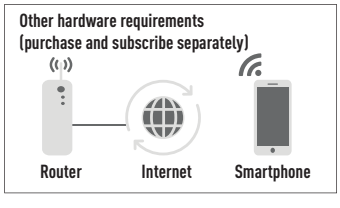


Compatibility: Most Panasonic Domestic range are compatible with CZ-TACG1 WLAN accessory: CS-VZ**SKE, CS-XZ**VKEW, CS-Z**VKEW, CS-TZ**TKEW, CS-RZ**VKEW, CS-FZ**UKE, CS-UZ**VKE, CS-PZ**VKE, CS-DZ**VKE, CS-Z**TKEA, CS-Z**UFEAW, CS-Z**UB4EAW, CS-Z**UD3EAW, CS-XE**SKEW, CS-E**SKEM-M, CS-TE**TKEW, CS-FE**UKE, CS-BE**TKE, CS-DE**TKE, CS-E**PKEA, CS-E**PB4EA, CS-E**PD3EA. VKE generation will be also compatible. For built-in WLAN such as CS-Z**VKEW, CS-MZ16VKE and CS-XZ**VKEW it is not required the accessory CZ-TACG1.

**Remark: indoor temperature display and some special functions are not available through the App for all models. Languages: Available in 19 European languages: Bulgarian, Croatian, Czech, Danish, Deutsch, English, Estonian, Finnish, French, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Slovenian, Spanish, Swedish and Turkish.**

## Panasonic Comfort Cloud for internet control - CZ-TACG1







| | |
|---|---|
| Input Voltage | DC 12V |
| Power Consumption | Max. 660mW |
| Size (H x W x D) | 66 x 36 x 12mm |
| Mass | Approx. 85g |
| Interface | 1 x Wireless LAN |
| Wireless LAN Standard | IEEE 802,11 b/g/n |
| Frequency Range | 2,4GHz band |
| Encryption | WPA2-PSK (TKIP/AES) |

# CONTROL AND CONNECTIVITY

Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver even higher performance. You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote controller provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.

## Domestic integration to P-Link - CZ-CAPRA1

Can connect all ranges to P-Link. Full control is now possible.

**Integrates any unit in big system control.**

- TKEA / PKEA server room integration
- Small offices with domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)

**Centralized Control Systems: 64 Indoor Units**

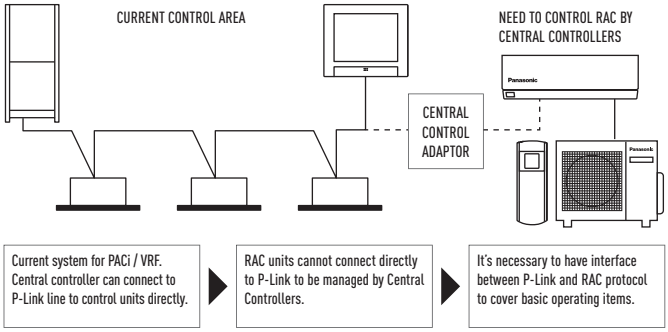


**Intelligent Controller / Web Server: 256 Indoor Units**



**P-AIMS: 1024 Indoor Units**




**Basic operation items:** ON/OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit.
**External input:** ON/OFF control signal, Abnormal stop signal.
**External output for Relay [1]:** Operation status (ON/OFF), Alarm status output.

1) Because current CN-CNT connector can not provide the power for external output relay, additional Input power for external relay is necessary.

## Connectivity. Control by BMS

Great flexibility for integration into your KNX, EnOcean, Modbus and BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.

| Reference | KNX PAW-AC-KNX-1i | Modbus® PAW-AC-MBS-1 | enocean PAW-AC-ENO-1i | BACnet PAW-AC-BAC-1 [1] |
|---|---|---|---|---|
| Quick installation and possibility of hidden installation | ✔ | ✔ | ✔ | ✔ |
| External power not required | ✔ | ✔ | ✔ | ✔ |
| Direct connection to the AC indoor unit | ✔ (Split or Multi Split) | ✔ (Split or Multi Split) | ✔ (Split) | ✔ |
| Control and monitoring of the internal variables of the indoor unit and error codes and indication | ✔ Fully compatible | ✔ Fully compatible | ✔ Fully compatible | |
| Use the AC ambient temperature or the one measured by external sensor | ✔ | ✔ | ✔ | |
| AC unit can be controlled simultaneously by the remote controller of the AC unit and interface devices | ✔ | ✔ | ✔ | |
| Advanced control functions | ✔ | ✔ | ✔ | |
| 4 binary inputs. They work as standard interface binary inputs as well as being used to control the AC directly | ✔ | ✔ | ✔ | |
| Total Control and Supervision. Real states of the AC unit's internal variables | | | | ✔ |

1) This interface allows a complete and natural integration of Panasonic air conditioners into either BACnet IP or MS/TP networks. Is a BTL certified device.

**PAW-AC-DIO**

Dry contact ON/OFF Interface. Panasonic has developed for hotels applications a dry contact PCB which works with Etherea, RE, UE and YE indoor units in order to control simply the unit centrally.

- ON/OFF signal by 3rd party BMS
- PCB connected to CN-RMT port on indoor unit PCB

## Easy connectivity

CN-CNT easy to access. Previous Etherea indoor unit had to be dismantle to reach connector. Can easier connect: Wireless accessory / KNX / Modbus / CZ-CAPRA1 to integrate to PACi control.







| Model name | Interface |
|---|---|
| CZ-TACG1 | Panasonic Comfort Cloud for internet control |
| CZ-CAPRA1 | RAC interface adapter for integration into P-Link |
| PAW-IR-WIFI-1 | Interface by Infra red sensor, only ON/OFF and temperature setting |
| PAW-AC-ENO-1i | This interface can be used with all models which have a CN-CNT connector |
| PAW-AC-KNX-1i | This interface can be used with all models which have a CN-CNT connector |
| PAW-AC-MBS-1 | This interface can be used with all models which have a CN-CNT connector |
| PAW-AC-BAC-1 | This interface can be used with all models which have a CN-CNT connector |
| PAW-AC-HEAT-1 | Heating only PCB for Etherea, 4-Way 60x60 Cassette and Low static pressure hide away |
| PAW-AC-DIO | This interface can be used with all models which have a CN-RMT connector |
| PAW-SMSCONTROL | Control of the Etherea, Flagship and Heatcharge by SMS (need additional SIM card) |

# DOMESTIC AIR CONDITIONER RANGE R32

| Page | Indoor units | 1,60kW | 2,00kW | 2,50kW |
|---|---|---|---|---|
| P. 102 | Wall Mounted Heatcharge VZ Inverter+ • R32 Gas | | |  CS-VZ9SKE |
| P. 103 | NEW Wall Mounted Etherea Inverter+ Silver • R32 Gas | |  CS-XZ20VKEW |  CS-XZ25VKEW |
| P. 103 | NEW Wall Mounted Etherea Inverter+ Pure White Matt • R32 Gas [1] |  CS-MZ16VKE [2] |  CS-Z20VKEW |  CS-Z25VKEW |
| P. 104 | Wall Mounted TZ Compact Style • R32 Gas [1] |  CS-MTZ16TKE [2] |  CS-TZ20TKEW-1 |  CS-TZ25TKEW-1 |
| P. 105 | NEW Wall Mounted RZ Compact Style • R32 Gas [1] |  CS-MRZ16VKE [2] |  CS-RZ20VKEW |  CS-RZ25VKEW |
| P. 106 | Wall Mounted FZ Type Standard Inverter • R32 Gas | | |  CS-FZ25UKE |
| P. 107 | NEW Wall Mounted UZ Type Standard Inverter • R32 Gas | | |  CS-UZ25VKE |
| P. 108 | NEW Wall Mounted PZ Type Standard Inverter • R32 Gas | | |  CS-PZ25VKE |
| P. 109 | NEW Wall Mounted DZ Type Standard Inverter • R32 Gas | | |  CS-DZ25VKE |
| P. 110 | Wall Mounted Professional Inverter -20°C • R32 Gas | | |  CS-Z25TKEA |
| P. 111 | Floor Console Type Inverter+ • R32 Gas [1] | |  CS-MZ20UFEA [2] |  CS-Z25UFEAW |
| P. 112 | 4 Way 60x60 Cassette Standard Inverter • R32 Gas [1] | |  CS-MZ20UB4EA [2] |  CS-Z25UB4EAW |
| P. 113 | Low Static Pressure Hide Away Standard Inverter • R32 Gas [1] | |  CS-MZ20UD3EA [2] |  CS-Z25UD3EAW |

1) Indoor units available for Free Multi Z and E combinations. 2) Indoor units only available only for Free Multi Z and E combinations.

| Page | Free Multi Outdoors | 3,20 ~ 6,00kW | 3,20 ~ 6,00kW | 3,20 ~ 7,70kW | 4,50 ~ 9,50kW | 4,50 ~ 11,20kW | 4,50 ~ 11,50kW | 4,50 ~ 14,70kW | 4,50 ~ 18,30kW |
|---|---|---|---|---|---|---|---|---|---|
| P. 114 | Outdoor unit Free Multi System Z • R32 Gas |  CU-2Z35TBE |  CU-2Z41TBE |  CU-2Z50TBE |  CU-3Z52TBE |  CU-3Z68TBE |  CU-4Z68TBE |  CU-4Z80TBE |  CU-5Z90TBE |

| 3,50kW | 4,20kW | 5,00kW | 6,00kW | 7,10kW |
|---|---|---|---|---|
|  CS-VZ12SKE | | | | |
|  CS-XZ35VKEW | |  CS-XZ50VKEW | | |
|  CS-Z35VKEW |  CS-Z42VKEW |  CS-Z50VKEW | |  CS-Z71VKEW |
|  CS-TZ35TKEW-1 |  CS-TZ42TKEW-1 |  CS-TZ50TKEW |  CS-TZ60TKEW |  CS-TZ71TKEW |
|  CS-RZ35VKEW |  CS-RZ42VKEW |  CS-RZ50VKEW |  CS-RZ60VKEW |  CS-RZ71VKEW |
|  CS-FZ35UKE | |  CS-FZ50UKE |  CS-FZ60UKE | |
|  CS-UZ35VKE | |  CS-UZ50VKE | | |
|  CS-PZ35VKE | |  CS-PZ50VKE | | |
|  CS-DZ35VKE | |  CS-DZ50VKE | | |
|  CS-Z35TKEA |  CS-Z42TKEA |  CS-Z50TKEA | |  CS-Z71TKEA |
|  CS-Z35UFEAW | |  CS-Z50UFEAW | | |
|  CS-Z35UB4EAW | |  CS-Z50UB4EAW |  CS-Z60UB4EAW | |
|  CS-Z35UD3EAW | |  CS-Z50UD3EAW |  CS-Z60UD3EAW | |

| Page | Multi Wall TZ Outdoors | 3,20 ~ 6,00kW | 3,20 ~ 7,70kW | 4,50 ~ 9,50kW |
|---|---|---|---|---|
| P. 118 | Outdoor unit Multi TZ for wall TZ indoors • **R32 Gas** |  CU-2TZ41TBE |  CU-2TZ50TBE |  CU-3TZ52TBE |

# Wall Mounted Heatcharge VZ Inverter+ • R32 GAS

heatcharge





## The Heatcharge from Panasonic has the capacity to store heat on the outdoor unit which allows heating to start quickly just after turning on the heat pump

It also ensures maximum comfort and heat in the house even during defrost operation as Heat charge also stores heat to prevent cool air during defrost.

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Performance tested at -35°C Outdoor temperature
- Energy Charge System. Heat storage unit which realizes NON-STOP heating and fast heating function
- Econavi Sunlight Detection sensor: Even higher efficiency and great comfort
- nanoe™ air purifying system, 99% effective to certain airborne and adhesives mould, viruses, bacteria and pollen allergen
- Super Quiet! Only 18dB(A), equivalent to night-time in the country
- More powerful airflow to quickly reach the desired temperature

| **Kit** | | | **KIT-VZ9-SKE** | **KIT-VZ12-SKE** |
|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,60 - 3,00) | 3,50 (0,60 - 4,00) |
| **SEER** [1] | | | **10,50** A+++ | **10,00** A+++ |
| Pdesign (cooling) | | kW | 2,50 | 3,50 |
| Input power cooling | Nominal (Min - Max) | kW | 0,43 (0,14 - 0,61) | 0,80 (0,14 - 0,98) |
| Annual energy consumption [3] | | kWh/a | 83 | 122 |
| Heating capacity | Nominal (Min - Max) | kW | 3,60 (0,60 - 7,80) | 4,20 (0,60 - 9,20) |
| COP [2] | | W/W | 5,63 | 5,04 |
| Heating capacity at -7°C | | kW | 5,00 | 5,60 |
| COP at -7°C [2] | | W/W | 2,07 | 2,00 |
| **SCOP** [1] | | | **6,20** A+++ | **5,90** A+++ |
| Pdesign at -10°C | | kW | 3,60 | 4,20 |
| Input power heating | Nominal (Min - Max) | kW | 0,64 (0,14 - 2,72) | 0,83 (0,14 - 3,16) |
| Annual energy consumption [3] | | kWh/a | 812 | 995 |
| **Indoor unit** | | | **CS-VZ9SKE** | **CS-VZ12SKE** |
| Power source | | V | 230 | 230 |
| Recommended fuse | | A | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat (Hi) | m³/min | 12,5 / 15,5 | 12,9 / 15,9 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 44 / 27 / 18 | 45 / 33 / 18 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 44 / 26 / 18 | 45 / 29 / 18 |
| Dimension | H x W x D | mm | 295 x 798 x 375 | 295 x 798 x 375 |
| Net weight | | kg | 14,5 | 14,5 |
| **Outdoor unit** | | | **CU-VZ9SKE** | **CU-VZ12SKE** |
| Air volume | Cool / Heat (Hi) | m³/min | 33,1 / 33,1 | 35,4 / 33,9 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 49 / 49 | 50 / 50 |
| Dimension [5] | H x W x D | mm | 630 x 799 x 299 | 630 x 799 x 299 |
| Net weight | | kg | 39,5 | 39,5 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 12 | 12 |
| Pipe length for additional gas | | m | 7,5 | 7,5 |
| Additional gas amount | | g/m | 20 | 20 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,05 / 0,70875 | 1,10 / 0,7425 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -30 ~ +24 | -30 ~ +24 |
| Lowest outdoor temperature tested by 3rd party laboratory [7] | | °C | -35 | -35 |

| **Accessories** | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| **Accessories** | |
|---|---|
| **PAW-SMSCONTROL** | Control by SMS (need additional SIM card) |

1) Energy Label Scale from A+++ to D. 2) EER and COP calculation is based in accordance to EN14511. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. 7) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

R32 | A+++ 10,50 SEER | A+++ 6,20 SCOP | 38% ECONAVI | INVERTER+ | R2 ROTARY COMPRESSOR | nanoe | 18dB(A) | -35°C HEATING MODE TESTED BY SP | SUMMER HOUSE | R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-VZ9-SKE. -35°C HEATING MODE: Heating performance tested at -35°C by SP, European third party laboratory. INTERNET CONTROL: Optional.

# New Wall Mounted Etherea Inverter+ Silver / Pure White Matt • R32 GAS

ETHEREA






## Etherea with nanoe™ X air-purifying system

The nanoe™ X revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of certain airborne and adhesive micro-organisms like bacteria, viruses and mould.

## Technical focus

- **NEW!** Built-in WLAN Panasonic Comfort Cloud for internet control
- R32 gas is more environmentally friendly than R410A
- nanoe™ X air purifying system, 99% effective to certain airborne and adhesives mould, viruses, bacteria and pollen allergen
- Aerowings to control air draft direction
- Mild Dry Cooling: prevent a rapid decrease in room humidity
- Super Quiet! Only 19dB(A), equivalent to night-time in the countryside
- More powerful airflow to quickly reach the desired temperature
- Wired control (Optional)

| **Kit Silver** | | | **KIT-XZ20-VKE** | **KIT-XZ25-VKE** | **KIT-XZ35-VKE** | **—** | **KIT-XZ50-VKE** | **—** |
|---|---|---|---|---|---|---|---|---|
| **Kit Pure White Matt** | | | **KIT-Z20-VKE** | **KIT-Z25-VKE** | **KIT-Z35-VKE** | **KIT-Z42-VKE** | **KIT-Z50-VKE** | **KIT-Z71-VKE** |
| Cooling capacity | Nominal (Min - Max) | kW | 2,05 (0,75 - 2,40) | 2,50 (0,85 - 3,20) | 3,50 (0,85 - 4,00) | 4,20 (0,85 - 5,00) | 5,00 (0,98 - 6,00) | 7,10 (0,98 - 8,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,56 (3,13 - 4,32) | 4,81 (3,54 - 4,05) | 4,07 (3,54 - 3,70) | 3,39 (3,27 - 3,18) | 3,55 (3,50 - 3,08) | 3,27 (2,33 - 2,93) |
| **SEER [2]** | | | **7,50** A++ | **8,50** A+++ | **8,50** A+++ | **6,90** A++ | **7,90** A++ | **6,50** A++ |
| Pdesign (cooling) | | kW | 2,10 | 2,50 | 3,50 | 4,20 | 5,00 | 7,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,45 (0,24 - 0,56) | 0,52 (0,24 - 0,79) | 0,86 (0,24 - 1,08) | 1,24 (0,26 - 1,57) | 1,41 (0,28 - 1,95) | 2,17 (0,42 - 2,90) |
| Annual energy consumption [3] | | kWh/a | 98 | 103 | 144 | 213 | 222 | 382 |
| Heating capacity | Nominal (Min - Max) | kW | 2,80 (0,70 - 4,00) | 3,40 (0,80 - 5,00) | 4,00 (0,80 - 5,50) | 5,30 (0,80 - 6,80) | 5,80 (0,98 - 8,00) | 8,60 (0,98 - 10,20) |
| Heating capacity at -7°C | | kW | 2,38 | 2,95 | 3,20 | 4,11 | 4,80 | 6,31 |
| COP [1] | Nominal (Min - Max) | W/W | 4,52 (3,89 - 4,04) | 4,79 (4,44 - 3,97) | 4,35 (4,44 - 3,72) | 3,68 (4,21 - 3,51) | 4,03 (2,88 - 3,16) | 3,66 (2,45 - 3,46) |
| **SCOP [2]** | | | **4,70** A++ | **5,10** A+++ | **5,10** A+++ | **4,00** A+ | **4,70** A++ | **4,20** A+ |
| Pdesign at -10°C | | kW | 2,10 | 2,70 | 2,80 | 3,60 | 4,20 | 5,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,62 (0,18 - 0,99) | 0,71 (0,18 - 1,26) | 0,92 (0,18 - 1,48) | 1,44 (0,19 - 1,94) | 1,44 (0,34 - 2,53) | 2,35 (0,40 - 2,95) |
| Annual energy consumption [3] | | kWh/a | 626 | 741 | 769 | 1260 | 1251 | 1833 |
| **Indoor unit Silver** | | | **CS-XZ20VKEW** | **CS-XZ25VKEW** | **CS-XZ35VKEW** | **—** | **CS-XZ50VKEW** | **—** |
| **Indoor unit Pure White Matt** | | | **CS-Z20VKEW** | **CS-Z25VKEW** | **CS-Z35VKEW** | **CS-Z42VKEW** | **CS-Z50VKEW** | **CS-Z71VKEW** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 20 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 9,9 / 10,7 | 10,2 / 11,2 | 11,0 / 12,0 | 11,2 / 12,0 | 19,1 / 20,5 | 19,8 / 21,5 |
| Moisture removal volume | | L/h | 1,3 | 1,5 | 2,0 | 2,4 | 2,8 | 4,1 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 24 / 19 | 39 / 25 / 19 | 42 / 28 / 19 | 43 / 31 / 25 | 44 / 37 / 30 | 47 / 38 / 30 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 25 / 19 | 41 / 27 / 19 | 43 / 33 / 19 | 43 / 35 / 29 | 44 / 37 / 30 | 47 / 38 / 30 |
| Dimension | H x W x D | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 9 | 10 | 10 | 10 | 12 | 13 |
| **Outdoor unit** | | | **CU-Z20VKE** | **CU-Z25VKE** | **CU-Z35VKE** | **CU-Z42VKE** | **CU-Z50VKE** | **CU-Z71VKE** |
| Air volume | Cool / Heat | m³/min | 26,9 / 24,1 | 28,7 / 27,2 | 30,6 / 30,6 | 31,3 / 30,9 | 39,8 / 36,9 | 44,7 / 45,8 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 45 / 46 | 46 / 47 | 48 / 50 | 49 / 51 | 47 / 47 | 52 / 54 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 27 | 31 | 31 | 31 | 42 | 50 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 10 | 15 | 25 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,70 / 0,473 | 0,85 / 0,574 | 0,85 / 0,574 | 0,89 / 0,601 | 1,15 / 0,776 | 1,37 / 0,925 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| **Accessories** | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-XZ25-VKE, KIT-XZ35-VKE, KIT-Z25-VKE and KIT-Z35-VKE. SUPER QUIET: For KIT-XZ20-VKE, KIT-XZ25-VKE, KIT-XZ35-VKE, KIT-Z20-VKE, KIT-Z25-VKE and KIT-Z35-VKE. INTERNET CONTROL: Built-in WLAN.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Wall Mounted TZ Compact Style Inverter • R32 GAS



## TZ compact indoor size

The TZ indoor units have compact size. With 799mm of width, you can put the air conditioner on the top of the door.

## Technical focus

- Compact design with 799mm
- R32 gas is more environmentally friendly than R410A
- Aerowings to control air draft direction
- PM2,5 Filter to create clean and comfort indoor quality
- Complete line-up of standard Inverter models
- Super Quiet! Only 20dB(A)
- High energy savings
- This units can be installed on R410A and R22 pipings
- Long connection distance (from 15m up to 30m)
- Wired control (Optional)
- Smartphone control (Optional)

| Kit | | | KIT-TZ20-TKE-1 | KIT-TZ25-TKE-1 | KIT-TZ35-TKE-1 | KIT-TZ42-TKE-1 | KIT-TZ50-TKE | KIT-TZ60-TKE | KIT-TZ71-TKE |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,00 (0,75 - 2,40) | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 3,90) | 4,20 (0,85 - 4,60) | 5,00 (0,98 - 5,60) | 6,30 (0,98 - 7,10) | 7,10 (0,98 - 8,10) |
| EER [1] | Nominal (Min - Max) | W/W | 4,08 (3,00 - 4,00) | 3,85 (3,40 - 3,41) | 3,57 (3,33 - 3,36) | 3,36 (3,21 - 2,80) | 3,40 (3,44 - 3,24) | 3,26 (3,50 - 2,98) | 3,17 (2,33 - 3,03) |
| **SEER [2]** | | | **6,80** A++ | **6,90** A++ | **6,70** A++ | **6,30** A++ | **6,80** A++ | **6,50** A++ | **6,10** A++ |
| Pdesign (cooling) | | kW | 2,00 | 2,50 | 3,50 | 4,20 | 5,00 | 6,30 | 7,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,49 (0,25 - 0,60) | 0,65 (0,25 - 0,88) | 0,98 (0,26 - 1,16) | 1,25 (0,27 - 1,64) | 1,47 (0,29 - 1,73) | 1,93 (0,28 - 2,38) | 2,24 (0,42 - 2,67) |
| Annual energy consumption [3] | | kWh/a | 103 | 127 | 183 | 233 | 257 | 339 | 407 |
| Heating capacity | Nominal (Min - Max) | kW | 2,70 (0,70 - 3,60) | 3,30 (0,80 - 4,10) | 4,00 (0,80 - 5,10) | 5,00 (0,80 - 6,80) | 5,80 (0,98 - 7,80) | 7,20 (0,98 - 8,50) | 8,60 (0,98 - 9,90) |
| Heating capacity at -7°C | | kW | 2,14 | 2,70 | 3,30 | 3,90 | 4,79 | 5,24 | 6,13 |
| COP [1] | Nominal (Min - Max) | W/W | 4,15 (3,78 - 3,53) | 4,18 (4,10 - 3,66) | 4,04 (4,00 - 3,70) | 3,73 (4,00 - 3,33) | 3,77 (2,88 - 3,39) | 3,44 (2,88 - 3,15) | 3,51 (2,45 - 3,47) |
| **SCOP [2]** | | | **4,60** A++ | **4,60** A++ | **4,60** A++ | **4,00** A+ | **4,30** A+ | **4,20** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 2,80 | 3,60 | 4,00 | 4,60 | 5,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,65 (0,19 - 1,02) | 0,79 (0,20 - 1,12) | 0,99 (0,20 - 1,38) | 1,34 (0,20 - 2,04) | 1,54 (0,34 - 2,30) | 2,09 (0,34 - 2,70) | 2,45 (0,40 - 2,85) |
| Annual energy consumption [3] | | kWh/a | 578 | 730 | 852 | 1260 | 1302 | 1533 | 1925 |
| **Indoor unit** | | | **CS-TZ20TKEW-1** | **CS-TZ25TKEW-1** | **CS-TZ35TKEW-1** | **CS-TZ42TKEW-1** | **CS-TZ50TKEW** | **CS-TZ60TKEW** | **CS-TZ71TKEW** |
| Air volume | Cool / Heat | m³/min | 9,6 / 10,6 | 10,5 / 11,4 | 11,3 / 12,1 | 12,3 / 12,9 | 19,9 / 20,8 | 20,8 / 21,4 | 20,0 / 22,0 |
| Moisture removal volume | | L/h | 1,3 | 1,5 | 2,0 | 2,4 | 2,8 | 3,5 | 4,1 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 25 / 20 | 40 / 26 / 20 | 42 / 30 / 20 | 44 / 31 / 29 | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 26 / 22 | 40 / 27 / 22 | 42 / 33 / 22 | 44 / 35 / 28 | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 |
| Dimension | H x W x D | mm | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 302 x 1102 x 244 | 302 x 1102 x 244 | 302 x 1102 x 244 |
| Net weight | | kg | 8 | 8 | 8 | 8 | 12 | 12 | 13 |
| **Outdoor unit** | | | **CU-TZ20TKE-1** | **CU-TZ25TKE-1** | **CU-TZ35TKE-1** | **CU-TZ42TKE-1** | **CU-TZ50TKE** | **CU-TZ60TKE** | **CU-TZ71TKE** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 20 | 20 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | 4 x 2,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 28,9 / 27,4 | 29,0 / 27,6 | 29,1 / 30,2 | 33,6 / 34,0 | 33,0 / 32,2 | 42,6 / 41,5 | 44,7 / 48,1 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 47 / 48 | 48 / 50 | 49 / 51 | 48 / 49 | 49 / 49 | 52 / 54 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 27 | 28 | 33 | 34 | 40 | 42 | 49 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 10 | 15 | 15 | 25 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,61 / 0,412 | 0,70 / 0,473 | 0,82 / 0,554 | 0,87 / 0,587 | 1,14 / 0,770 | 1,11 / 0,749 | 1,32 / 0,891 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-TZ25-TKE-1. SUPER QUIET: For KIT-TZ20-TKE-1, KIT-TZ25-TKE-1 and KIT-TZ35-TKE-1. INTERNET CONTROL: Optional.

# New Wall Mounted RZ Compact Style Inverter • R32 GAS



NEW 2019

## RZ compact indoor size

The RZ indoor units have compact size. With 799mm of width, you can put the air conditioner on the top of the door.

## Technical focus

- Compact design with 799mm
- R32 gas is more environmentally friendly than R410A
- Aerowings to control air draft direction
- Dust Collection Filter
- Complete line-up of standard Inverter models
- Super Quiet! Only 20dB(A)
- High energy savings
- This units can be installed on R410A and R22 pipings
- Long connection distance (from 15m up to 30m)
- Wired control (Optional)
- Smartphone control (Optional)

| Kit | | | KIT-RZ20-VKE | KIT-RZ25-VKE | KIT-RZ35-VKE | KIT-RZ42-VKE | KIT-RZ50-VKE | KIT-RZ60-VKE | KIT-RZ71-VKE |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,00 (0,75 - 2,40) | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 3,90) | 4,20 (0,85 - 4,60) | 5,00 (0,98 - 5,60) | 6,30 (0,98 - 7,10) | 7,10 (0,98 - 8,10) |
| EER [1] | Nominal (Min - Max) | W/W | 3,92 (3,00 - 3,87) | 3,79 (3,40 - 3,37) | 3,50 (3,33 - 3,28) | 3,33 (3,21 - 2,79) | 3,40 (3,44 - 3,24) | 3,26 (3,50 - 2,98) | 3,17 (2,33 - 3,03) |
| **SEER [2]** | | | **6,40 A++** | **6,40 A++** | **6,20 A++** | **5,80 A+** | **6,80 A++** | **6,50 A++** | **6,10 A++** |
| Pdesign (cooling) | | kW | 2,00 | 2,50 | 3,50 | 4,20 | 5,00 | 6,30 | 7,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,51 (0,25 - 0,62) | 0,66 (0,25 - 0,89) | 1,00 (0,26 - 1,19) | 1,26 (0,27 - 1,65) | 1,47 (0,29 - 1,73) | 1,93 (0,28 - 2,38) | 2,24 (0,42 - 2,67) |
| Annual energy consumption [3] | | kWh/a | 109 | 137 | 198 | 253 | 257 | 339 | 407 |
| Heating capacity | Nominal (Min - Max) | kW | 2,70 (0,70 - 3,60) | 3,30 (0,80 - 4,10) | 4,00 (0,80 - 5,10) | 5,00 (0,80 - 6,80) | 5,80 (0,98 - 7,80) | 7,20 (0,98 - 8,50) | 8,60 (0,98 - 9,90) |
| Heating capacity at -7°C | | kW | 2,14 | 2,70 | 3,30 | 3,90 | 4,79 | 5,24 | 6,13 |
| COP [1] | Nominal (Min - Max) | W/W | 4,03 (3,78 - 3,46) | 4,13 (4,10 - 3,63) | 3,81 (4,00 - 3,59) | 3,70 (4,00 - 3,32) | 3,77 (2,88 - 3,39) | 3,44 (2,88 - 3,15) | 3,51 (2,45 - 3,47) |
| **SCOP [2]** | | | **4,10 A+** | **4,20 A+** | **4,20 A+** | **3,80 A** | **4,30 A+** | **4,20 A+** | **4,00 A+** |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 2,80 | 3,60 | 4,00 | 4,60 | 5,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,67 (0,19 - 1,04) | 0,80 (0,20 - 1,13) | 1,05 (0,20 - 1,42) | 1,35 (0,20 - 2,05) | 1,54 (0,34 - 2,30) | 2,09 (0,34 - 2,70) | 2,45 (0,40 - 2,85) |
| Annual energy consumption [3] | | kWh/a | 649 | 800 | 933 | 1326 | 1302 | 1533 | 1925 |
| **Indoor unit** | | | **CS-RZ20VKEW** | **CS-RZ25VKEW** | **CS-RZ35VKEW** | **CS-RZ42VKEW** | **CS-RZ50VKEW** | **CS-RZ60VKEW** | **CS-RZ71VKEW** |
| Air volume | Cool / Heat | m³/min | 10,0 / 10,7 | 10,9 / 11,3 | 11,4 / 12,5 | 12,1 / 12,9 | 19,5 / 20,8 | 20,8 / 21,4 | 22,1 / 22,9 |
| Moisture removal volume | | L/h | 1,3 | 1,5 | 2,0 | 2,4 | 2,8 | 3,5 | 4,1 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 25 / 20 | 40 / 26 / 20 | 42 / 30 / 20 | 44 / 31 / 29 | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 26 / 22 | 40 / 27 / 22 | 42 / 33 / 22 | 44 / 35 / 28 | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 |
| Dimension | H x W x D | mm | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 302 x 1102 x 244 | 302 x 1102 x 244 | 302 x 1102 x 244 |
| Net weight | | kg | 8 | 8 | 8 | 8 | 12 | 12 | 13 |
| **Outdoor unit** | | | **CU-RZ20VKE** | **CU-RZ25VKE** | **CU-RZ35VKE** | **CU-RZ42VKE** | **CU-RZ50VKE** | **CU-RZ60VKE** | **CU-RZ71VKE** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 16 | 20 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat | m³/min | 31,2 / 29,7 | 30,0 / 28,9 | 28,7 / 29,7 | 31,3 / 30,9 | 32,7 / 31,9 | 42,6 / 41,5 | 44,7 / 45,9 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 47 / 48 | 48 / 50 | 49 / 51 | 48 / 49 | 49 / 49 | 52 / 54 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 26 | 26 | 31 | 31 | 35 | 42 | 49 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 10 | 15 | 15 | 25 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,58 / 0,392 | 0,67 / 0,452 | 0,77 / 0,520 | 0,87 / 0,587 | 1,14 / 0,770 | 1,15 / 0,776 | 1,32 / 0,891 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.

R32 | A++ 6,80 SEER | A+ 4,30 SCOP | INVERTER | R2 ROTARY COMPRESSOR | DUST COLLECTION FILTER | 20dB(A) | AEROWINGS | R22 R410A R32 R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-RZ50-VKE. SUPER QUIET: For KIT-RZ20-VKE, KIT-RZ25-VKE and KIT-RZ35-VKE. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Wall Mounted FZ Type Standard Inverter
# • R32 GAS





## FZ series inverter powerful and efficient

## Technical focus

- R32 gas is more environmentally friendly than R410A
- PM2,5 Filter to create clean and comfort indoor quality
- Super Quiet! Only 20dB(A)
- High energy savings
- Cooling even at -10°C
- This units can be installed on R410A and R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)

| Kit | | | KIT-FZ25-UKE | KIT-FZ35-UKE | KIT-FZ50-UKE | KIT-FZ60-UKE |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) | 6,25 (0,98 - 7,10) |
| EER [1] | Nominal (Min - Max) | W/W | 3,68 (3,40 - 3,33) | 3,18 (3,33 - 3,05) | 3,03 (3,44 - 2,90) | 3,24 (3,50 - 2,96) |
| **SEER [2]** | | | **6,20** A++ | **6,10** A++ | **6,50** A++ | **6,20** A++ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 | 6,30 |
| Input power cooling | Nominal (Min - Max) | kW | 0,68 (0,25 - 0,90) | 1,07 (0,26 - 1,28) | 1,65 (0,29 - 1,86) | 1,93 (0,28 - 2,40) |
| Annual energy consumption [3] | | kWh/a | 141 | 195 | 269 | 356 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) | 6,80 (0,98 - 8,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 | 5,24 |
| COP [1] | Nominal (Min - Max) | W/W | 4,04 (4,10 - 3,46) | 3,66 (4,10 - 3,41) | 3,42 (2,80 - 3,06) | 3,51 (2,88 - 3,11) |
| **SCOP [2]** | | | **4,10** A+ | **4,10** A+ | **3,90** A | **3,90** A |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 | 4,60 |
| Input power heating | Nominal (Min - Max) | kW | 0,78 (0,20 - 1,04) | 1,05 (0,20 - 1,29) | 1,58 (0,35 - 2,45) | 1,94 (0,34 - 2,73) |
| Annual energy consumption [3] | | kWh/a | 649 | 820 | 1436 | 1651 |
| **Indoor unit** | | | **CS-FZ25UKE** | **CS-FZ35UKE** | **CS-FZ50UKE** | **CS-FZ60UKE** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | — |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | — |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 | 17,2 / 18,7 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 | 3,5 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 | 45 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 | 45 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 | 290 x 1070 x 240 |
| Net weight | | kg | 8 | 8 | 9 | 12 |
| **Outdoor unit** | | | **CU-FZ25UKE** | **CU-FZ35UKE** | **CU-FZ50UKE** | **CU-FZ60UKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 | 42,6 / 41,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 | 49 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 695 x 875 x 320 |
| Net weight | | kg | 26 | 27 | 38 | 43 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,58 / 0,392 | 0,67 / 0,452 | 1,14 / 0,770 | 1,15 / 0,776 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.

R32 | A++ 6,50 SEER | A 3,90 SCOP | INVERTER | R2 ROTARY COMPRESSOR | PM2,5 FILTER | 20dB(A) | R22 R410A R32 R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-FZ50-UKE. SUPER QUIET: For KIT-FZ25-UKE and KIT-FZ35-UKE. INTERNET CONTROL: Optional.

# New Wall Mounted UZ Type Standard Inverter • R32 GAS



NEW 2019

## UZ series inverter powerful and efficient

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Super Quiet! Only 20dB(A)
- High energy savings
- Cooling even at -10°C
- This units can be installed on R410A and R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)



| Kit | | | KIT-UZ25-VKE | KIT-UZ35-VKE | KIT-UZ50-VKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,30 (0,85 - 3,80) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,68 (3,40 - 3,33) | 3,20 (3,33 - 3,06) | 3,03 (3,44 - 2,90) |
| **SEER [2]** | | | **6,20** A++ | **6,10** A++ | **6,50** A++ |
| Pdesign (cooling) | | kW | 2,50 | 3,30 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,68 (0,25 - 0,90) | 1,03 (0,26 - 1,24) | 1,65 (0,29 - 1,86) |
| Annual energy consumption [3] | | kWh/a | 141 | 189 | 269 |
| Heating capacity | Nominal (Min - Max) | kW | 3,00 (0,80 - 3,50) | 3,70 (0,80 - 4,30) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,08 | 2,54 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 4,05 (4,10 - 3,47) | 3,70 (4,10 - 3,44) | 3,42 (2,80 - 3,06) |
| **SCOP [2]** | | | **4,10** A+ | **4,10** A+ | **3,90** A |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,74 (0,20 - 1,01) | 1,00 (0,20 - 1,25) | 1,58 (0,35 - 2,45) |
| Annual energy consumption [3] | | kWh/a | 649 | 820 | 1436 |
| **Indoor unit** | | | **CS-UZ25VKE** | **CS-UZ35VKE** | **CS-UZ50VKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 1,9 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-UZ25VKE** | **CU-UZ35VKE** | **CU-UZ50VKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 36 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,58 / 0,392 | 0,67 / 0,452 | 1,14 / 0,770 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.

R32 | A++ 6,50 SEER | A+ 4,10 SCOP | INVERTER | R2 ROTARY COMPRESSOR | DUST COLLECTION FILTER | 20dB(A) | R22 R410A R32 R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-UZ50-UKE. SUPER QUIET: For KIT-UZ25-UKE and KIT-UZ35-UKE. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# New Wall Mounted PZ Type Standard Inverter • R32 GAS



NEW 2019

## PZ Inverter models are powerful and efficient

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Super Quiet! Only 20dB(A)
- High energy savings
- This units can be installed on R410A and R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)



| Kit | | | KIT-PZ25-VKE | KIT-PZ35-VKE | KIT-PZ50-VKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,62 (3,40 - 3,30) | 3,09 (3,33 - 3,00) | 2,98 (3,44 - 2,86) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **6,00** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,69 (0,25 - 0,91) | 1,10 (0,26 - 1,30) | 1,68 (0,29 - 1,89) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 292 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 4,09 (4,10 - 3,50) | 3,69 (4,10 - 3,46) | 3,44 (2,80 - 3,07) |
| **SCOP [2]** | | | **4,10** A+ | **4,10** A+ | **4,10** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,77 (0,20 - 1,03) | 1,04 (0,20 - 1,27) | 1,57 (0,35 - 2,44) |
| Annual energy consumption [3] | | kWh/a | 649 | 820 | 1366 |
| **Indoor unit** | | | **CS-PZ25VKE** | **CS-PZ35VKE** | **CS-PZ50VKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-PZ25VKE** | **CU-PZ35VKE** | **CU-PZ50VKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 36 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,58 / 0,392 | 0,67 / 0,452 | 1,14 / 0,770 |
| Operating range | Cool Min ~ Max | °C | +5 ~ +43 | +5 ~ +43 | +5 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-PZ50-VKE. SUPER QUIET: For KIT-PZ25-VKE and KIT-PZ35-VKE. INTERNET CONTROL: Optional.

# New Wall Mounted DZ Type Standard Inverter • R32 GAS



NEW 2019

## DZ Inverter models are powerful and efficient

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Super Quiet! Only 20dB(A)
- High energy savings
- This units can be installed on R410A and R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)



| Kit | | | KIT-DZ25-VKE | KIT-DZ35-VKE | KIT-DZ50-VKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,62 (3,40 - 3,30) | 3,09 (3,33 - 3,00) | 2,98 (3,44 - 2,86) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **6,00** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,69 (0,25 - 0,91) | 1,10 (0,26 - 1,30) | 1,68 (0,29 - 1,89) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 292 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 4,09 (4,10 - 3,50) | 3,69 (4,10 - 3,46) | 3,44 (2,80 - 3,07) |
| **SCOP [2]** | | | **4,10** A+ | **4,10** A+ | **4,10** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,77 (0,20 - 1,03) | 1,04 (0,20 - 1,27) | 1,57 (0,35 - 2,44) |
| Annual energy consumption [3] | | kWh/a | 649 | 820 | 1366 |
| **Indoor unit** | | | **CS-DZ25VKE** | **CS-DZ35VKE** | **CS-DZ50VKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-DZ25VKE** | **CU-DZ35VKE** | **CU-DZ50VKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 36 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,58 / 0,392 | 0,67 / 0,452 | 1,14 / 0,770 |
| Operating range | Cool Min ~ Max | °C | +5 ~ +43 | +5 ~ +43 | +5 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-DZ50-VKE. SUPER QUIET: For KIT-DZ25-VKE and KIT-DZ35-VKE. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Wall Mounted Professional Inverter -20°C • R32 GAS







## Complete line-up with high efficiency even at -20°C

This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Aerowings to control air draft direction
- Designed for 24h/7d a week operation
- Up to A+++ in cooling
- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing
- Automatic restart

| KIT | | | KIT-Z25-TKEA | KIT-Z35-TKEA | KIT-Z42-TKEA | KIT-Z50-TKEA | KIT-Z71-TKEA |
|---|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 4,00) | 4,20 (0,98 - 5,00) | 5,00 (0,98 - 6,00) | 7,10 (0,98 - 8,10) |
| EER [1] | Nominal (Min - Max) | W/W | 4,90 (5,00 - 4,29) | 4,07 (5,00 - 3,64) | 3,82 (4,90 - 3,25) | 3,60 (3,50 - 3,09) | 3,17 (2,33 - 3,03) |
| **SEER [2]** | | | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **6,10 A++** |
| Pdesign | | kW | 2,50 | 3,50 | 4,20 | 5,00 | 7,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,51 (0,17 - 0,70) | 0,86 (0,17 - 1,10) | 1,10 (0,20 - 1,54) | 1,39 (0,28 - 1,94) | 2,24 (0,42 - 2,67) |
| Annual energy consumption [3] | | kWh/a | 103 | 144 | 173 | 206 | 407 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 (0,85 - 5,40) | 4,00 (0,85 - 6,60) | 5,40 (0,98 - 7,25) | 5,80 (0,98 - 8,00) | 8,60 (0,98 - 9,90) |
| Heating capacity at -7°C | | kW | 3,33 | 4,07 | 4,30 | 5,00 | 6,13 |
| COP [1] | Nominal (Min - Max) | W/W | 4,86 (5,15 - 4,12) | 4,35 (5,15 - 3,63) | 4,00 (4,45 - 3,37) | 4,03 (2,88 - 3,20) | 3,51 (2,45 - 3,47) |
| **SCOP [2]** | | | **4,50 A+** | **4,40 A+** | **4,30 A+** | **4,40 A+** | **4,00 A+** |
| Pdesign at -10°C | | kW | 2,80 | 3,60 | 3,80 | 4,40 | 5,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,70 (0,17 - 1,31) | 0,92 (0,17 - 1,82) | 1,35 (0,22 - 2,15) | 1,44 (0,34 - 2,50) | 2,45 (0,40 - 2,85) |
| Annual energy consumption [3] | | kWh/a | 871 | 1145 | 1237 | 1400 | 1925 |
| **Indoor unit** | | | **CS-Z25TKEA** | **CS-Z35TKEA** | **CS-Z42TKEA** | **CS-Z50TKEA** | **CS-Z71TKEA** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 20 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | 4 x 2,5 |
| Air Volume | Cool / Heat | m³/min | 10,4 / 11,7 | 10,7 / 12,4 | 18,2 / 20,2 | 19,2 / 21,3 | 20,2 / 21,0 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,4 | 2,8 | 4,1 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 39 / 25 / 21 | 42 / 28 / 21 | 43 / 32 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 41 / 27 / 22 | 43 / 30 / 22 | 44 / 35 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| Dimension | H x W x D | mm | 295 x 919 x 194 | 295 x 919 x 194 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 9 | 10 | 12 | 12 | 13 |
| **Outdoor unit** | | | **CU-Z25TKEA** | **CU-Z35TKEA** | **CU-Z42TKEA** | **CU-Z50TKEA** | **CU-Z71TKEA** |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 48 | 48 / 50 | 48 / 50 | 48 / 50 | 52 / 54 |
| Dimension [5] | H x W x D | mm | 619 x 824 x 299 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 37 | 38 | 38 | 43 | 49 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 15 | 25 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,96 / 0,648 | 1,00 / 0,675 | 1,08 / 0,729 | 1,15 / 0,776 | 1,32 / 0,891 |
| Operating range | Cool Min ~ Max | °C | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-SERVER-PKEA** | PCB for installation in server rooms with security |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-Z25-TKEA. SUPER QUIET: For KIT-Z25-TKEA. INTERNET CONTROL: Optional.

# Floor Console Type Inverter+ • R32 GAS





## Floor Console with new nanoe™ X air-purifying system: outstanding efficiency A++, comfort (Super Quiet technology only 20dB(A)) and healthy air combined with a breakthrough design

Double airflow for improved comfort and temperature dispersion: through the top for an efficient cooling mode.

## Technical focus

- R32 gas is more environmentally friendly than R410A
- A breakthrough design that combines perfectly with the most modern environments. We have selected the best materials and processes for a refined design
- nanoe™ X with nano-technology, nano-sized electrostatic atomised water particles purify the air in the room
- High energy efficiency class A++ SEER and A++ SCOP
- Control your comfort and the power consumption with internet control

| Kit | | | KIT-Z25-UFE | KIT-Z35-UFE | KIT-Z50-UFE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,40) | 3,50 (0,85 - 3,80) | 5,00 (0,90 - 5,70) |
| EER [1] | Nominal (Min - Max) | W/W | 4,81 (3,54 - 3,78) | 4,07 (3,54 - 3,73) | 3,60 (3,53 - 3,15) |
| **SEER [2]** | | | **7,90** A+++ | **8,10** A++ | **6,70** A++ |
| Pdesign (cooling) | | kW | 2,50 | 3,50 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,52 (0,24 - 0,90) | 0,86 (0,24 - 1,02) | 1,39 (0,26 - 1,81) |
| Annual energy consumption [3] | | kWh/a | 111 | 151 | 261 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 (0,85 - 5,00) | 4,30 (0,85 - 6,00) | 5,80 (0,90 - 8,10) |
| Heating capacity at -7°C | | kW | 2,88 | 3,37 | 5,03 |
| COP [1] | Nominal (Min - Max) | W/W | 4,47 (3,54 - 3,70) | 3,98 (3,54 - 3,43) | 3,74 (3,46 - 3,12) |
| **SCOP [2]** | | | **4,60** A+++ | **4,60** A++ | **4,30** A+ |
| Pdesign at -10°C | | kW | 2,70 | 3,20 | 4,40 |
| Input power heating | Nominal (Min - Max) | kW | 0,76 (0,24 - 1,35) | 1,08 (0,24 - 1,75) | 1,55 (0,26 - 2,60) |
| Annual energy consumption [3] | | kWh/a | 822 | 974 | 1433 |
| **Indoor unit** | | | **CS-Z25UFEAW** | **CS-Z35UFEAW** | **CS-Z50UFEAW** |
| Air volume | Cool / Heat | m³/min | 9,6 / 9,9 | 9,9 / 10,1 | 11,6 / 13,2 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 38 / 25 / 20 | 39 / 26 / 20 | 44 / 31 / 27 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 25 / 19 | 39 / 26 / 19 | 46 / 33 / 29 |
| Dimension | H x W x D | mm | 600 x 750 x 207 | 600 x 750 x 207 | 600 x 750 x 207 |
| Net weight | | kg | 13 | 13 | 13 |
| **Outdoor unit** | | | **CU-Z25UBEA** | **CU-Z35UBEA** | **CU-Z50UBEA** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | — | — | — |
| Air volume | Cool / Heat | m³/min | 28,7 / 27,2 | 34,3 / 33,5 | 39,7 / 38,6 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 48 / 48 | 48 / 48 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 619 x 824 x 299 | 695 x 875 x 320 |
| Net weight | | kg | 33 | 35 | 43 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,88 / 0,594 | 0,93 / 0,628 | 1,13 / 0,763 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

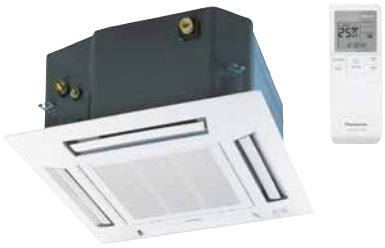
1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1m in front of the main body and 1m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-Z35-UFE. SUPER QUIET: For KIT-Z25-UFE and KIT-Z35-UFE. INTERNET CONTROL: Optional. iF DESIGN AWARD 2019: Floor Console awarded with the prestigious IF Design Award 2019.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 4 Way 60x60 Cassette Inverter • R32 GAS





**CZ-BT20EW**
RAL9010 panel for 4 Way 60x60 Cassette.



## Specially designed for offices, retail and restaurant applications, this Cassette fits perfectly into 60x60 or 70x70 ceiling grids

Compact Cassette with high efficiency even at low temperatures, this new Cassette can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. Interfaces have dry contacts (ON/OFF, error message) to enable easy integration.
Fit Panasonic's Cassette Type, and start to save all year round!

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Cassettes can be controlled by KNX, EnOcean and Modbus
- Designed for easy installation in the standard European 60x60 ceiling grid
- Piping length up to 30m
- Maximum elevation difference up to 20m
- Ultra compact outdoor units for easy installation
- High pressure selector in case of high ceilings (higher than 2,7m)
- Drain pump included (maximum 750mm high)
- Air fresh entry available on the Cassette

| KIT | | | KIT-Z25-UB4 | KIT-Z35-UB4 | KIT-Z50-UB4 | KIT-Z60-UB4 |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,20) | 3,50 (0,85 - 4,00) | 5,00 (0,90 - 5,80) | 6,00 (0,90 - 6,35) |
| EER [1] | Nominal (Min - Max) | W/W | 4,55 (3,54 - 3,90) | 3,89 (3,54 - 3,39) | 3,25 (3,53 - 3,09) | 2,93 (3,53 - 2,89) |
| **SEER [2]** | | | **6,30** A++ | **6,50** A++ | **6,40** A++ | **6,20** A++ |
| Pdesign (cooling) | | kW | 2,50 | 3,50 | 5,00 | 6,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,55 (0,24 - 0,82) | 0,90 (0,24 - 1,18) | 1,54 (0,26 - 1,88) | 2,05 (0,26 - 2,20) |
| Annual energy consumption [3] | | kWh/a | 139 | 188 | 273 | 339 |
| Heating capacity | Nominal (Min - Max) | kW | 3,20 (0,85 - 4,80) | 4,50 (0,85 - 5,60) | 5,60 (0,90 - 7,10) | 7,00 (0,90 - 8,00) |
| Heating capacity at -7°C | | kW | 2,88 | 3,37 | 4,40 | 5,10 |
| COP [1] | Nominal (Min - Max) | W/W | 4,05 (3,70 - 3,64) | 3,31 (3,70 - 3,20) | 3,03 (3,46 - 2,95) | 2,92 (3,46 - 2,91) |
| **SCOP [2]** | | | **4,30** A+ | **4,20** A+ | **4,30** A+ | **4,20** A+ |
| Pdesign at -10°C | | kW | 2,70 | 3,00 | 3,80 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,79 (0,23 - 1,32) | 1,36 (0,23 - 1,75) | 1,85 (0,26 - 2,41) | 2,40 (0,26 - 2,75) |
| Annual energy consumption [3] | | kWh/a | 879 | 1000 | 1237 | 1333 |
| **Indoor unit** | | | **CS-Z25UB4EAW** | **CS-Z35UB4EAW** | **CS-Z50UB4EAW** | **CS-Z60UB4EAW** |
| **Panel** | | | **CZ-BT20EW** | **CZ-BT20EW** | **CZ-BT20EW** | **CZ-BT20EW** |
| Air volume | Cool / Heat | m³/min | 10,5 / 10,8 | 10,5 / 10,8 | 11,5 / 11,8 | 12,4 / 13,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 | 3,3 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 34 / 25 / 22 | 34 / 26 / 23 | 37 / 28 / 25 | 42 / 32 / 29 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 35 / 28 / 25 | 35 / 28 / 25 | 38 / 29 / 26 | 43 / 32 / 29 |
| Dimension (H x W x D) | Indoor | mm | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 |
| | Panel | mm | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 |
| Net weight | Indoor / Panel | kg | 18 / 2,5 | 18 / 2,5 | 18 / 2,5 | 18 / 2,5 |
| **Outdoor unit** | | | **CU-Z25UBEA** | **CU-Z35UBEA** | **CU-Z50UBEA** | **CU-Z60UBEA** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | — | — | — | — |
| Connection indoor / outdoor | | mm² | — | — | — | — |
| Air volume | Cool / Heat | m³/min | 28,7 / 27,2 | 34,3 / 33,5 | 39,7 / 38,6 | 42,6 / 41,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 48 / 48 | 48 / 48 | 49 / 50 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 33 | 35 | 43 | 43 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 20 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,88 / 0,594 | 0,93 / 0,628 | 1,13 / 0,763 | 1,13 / 0,763 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD52CP** | Wired remote controller for Cassette |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1,5m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-Z35-UB4. SUPER QUIET: For KIT-Z25-UB4. INTERNET CONTROL: Optional.

# Low Static Pressure Hide Away Inverter • R32 GAS





**CZ-RL511D**
NEW optional wireless kit.



## Designed for homes, offices, retail and restaurants, this duct is ideal for small rooms where the air conditioning and the heating should be nicely integrated and where high comfort and efficiency is needed

The duct can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. This interfaces have dry contacts (ON/OFF, error message) for easy integration.

## Technical focus

- R32 gas is more environmentally friendly than R410A
- Duct type can be controlled by KNX, EnOcean and Modbus
- Eco mode for 20% energy saving
- Extremely compact indoor units without losing static pressure (only 200mm high)
- Weekly timer, 42 settings per week
- Easy check mode for failure detection
- Drain pump included

| KIT | | | KIT-Z25-UD3 | KIT-Z35-UD3 | KIT-Z50-UD3 | KIT-Z60-UD3 |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,20) | 3,50 (0,85 - 4,00) | 5,10 (0,90 - 5,70) | 6,00 (0,90 - 6,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,31 (3,54 - 3,76) | 3,85 (3,54 - 3,36) | 3,27 (3,53 - 3,20) | 2,94 (3,53 - 2,83) |
| **SEER [2]** | | | **5,90** A+ | **5,80** A+ | **5,90** A+ | **5,60** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,50 | 5,10 | 6,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,58 (0,24 - 0,85) | 0,91 (0,24 - 1,19) | 1,56 (0,26 - 1,78) | 2,04 (0,26 - 2,30) |
| Annual energy consumption [3] | | kWh/a | 148 | 211 | 303 | 375 |
| Heating capacity | Nominal (Min - Max) | kW | 3,20 (0,85 - 4,60) | 4,20 (0,85 - 5,10) | 6,10 (0,90 - 7,20) | 7,00 (0,90 - 8,00) |
| Heating capacity at -7°C | | kW | 2,60 | 3,00 | 4,50 | 5,10 |
| COP [1] | Nominal (Min - Max) | W/W | 4,00 (3,70 - 3,68) | 3,82 (3,70 - 3,59) | 3,35 (3,46 - 3,27) | 3,24 (3,46 - 3,08) |
| **SCOP [2]** | | | **4,20** A+ | **4,10** A+ | **4,10** A+ | **4,10** A+ |
| Pdesign at -10°C | | kW | 2,60 | 2,80 | 4,00 | 4,60 |
| Input power heating | Nominal (Min - Max) | kW | 0,80 (0,23 - 1,25) | 1,10 (0,23 - 1,42) | 1,82 (0,26 - 2,20) | 2,16 (0,26 - 2,60) |
| Annual energy consumption [3] | | kWh/a | 867 | 956 | 1366 | 1571 |
| **Indoor unit** | | | **CS-Z25UD3EAW** | **CS-Z35UD3EAW** | **CS-Z50UD3EAW** | **CS-Z60UD3EAW** |
| External static pressure [4] | Min - Max | Pa | 15 - 45 | 15 - 45 | 15 - 50 | 15 - 50 |
| Air volume | Cool / Heat | m³/min | 10,5 / 10,5 | 11,2 / 11,2 | 15,3 / 15,3 | 15,7 / 15,7 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 | 3,3 |
| Sound pressure [5] | Cool (Hi / Lo / Q-Lo) | dB(A) | 33 / 27 / 24 | 33 / 27 / 24 | 39 / 29 / 26 | 41 / 30 / 27 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 35 / 27 / 24 | 35 / 27 / 24 | 39 / 30 / 27 | 41 / 32 / 29 |
| Dimension | H x W x D | mm | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 |
| Net weight | | kg | 19 | 19 | 19 | 19 |
| **Outdoor unit** | | | **CU-Z25UBEA** | **CU-Z35UBEA** | **CU-Z50UBEA** | **CU-Z60UBEA** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | — |
| Connection indoor / outdoor | | mm² | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 | — |
| Air volume | Cool / Heat | m³/min | 28,7 / 27,2 | 34,3 / 33,5 | 39,7 / 38,6 | 42,6 / 41,5 |
| Sound pressure [5] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 48 / 48 | 48 / 48 | 49 / 50 |
| Dimension [6] | H x W x D | mm | 542 x 780 x 289 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 33 | 35 | 43 | 43 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [7] | | m | 15 | 15 | 20 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 10 | 10 | 15 | 15 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,88 / 0,594 | 0,93 / 0,628 | 1,13 / 0,763 | 1,13 / 0,763 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RL511D** | NEW Infrared remote controller Sky Remote. 2m cable length of infrared receiver (available in April 2019) |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The specification listed on the table indicates values under the condition of 25Pa (2,5mmAq) which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0mmAq. 5) The sound pressure of the indoor unit shows the value measured of a position of 1,5m below the unit with 1m duct on the suction side and 2m duct on the discharge side. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. 6) Add 100mm for indoor unit or 70mm for outdoor unit for piping port. 7) When installing the outdoor unit at a higher position than the indoor unit.

R32 | A+ 5,90 SEER | A+ 4,20 SCOP | INVERTER | R2 ROTARY COMPRESSOR | STATIC PRESSURE UP TO 7 mmAq | -10°C COOLING MODE | -15°C HEATING MODE | FILTER INCLUDED | R22 R410A R32 R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-Z25-UD3. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# MULTI SPLIT AND FREE MULTI SYSTEM

If air conditioning requirements exceed the ambit of a single room, Panasonic offers you a very extensive range of possibilities with up to 5 indoor units connected to a single outdoor unit.



## Panasonic offers widest range in Multi Split systems

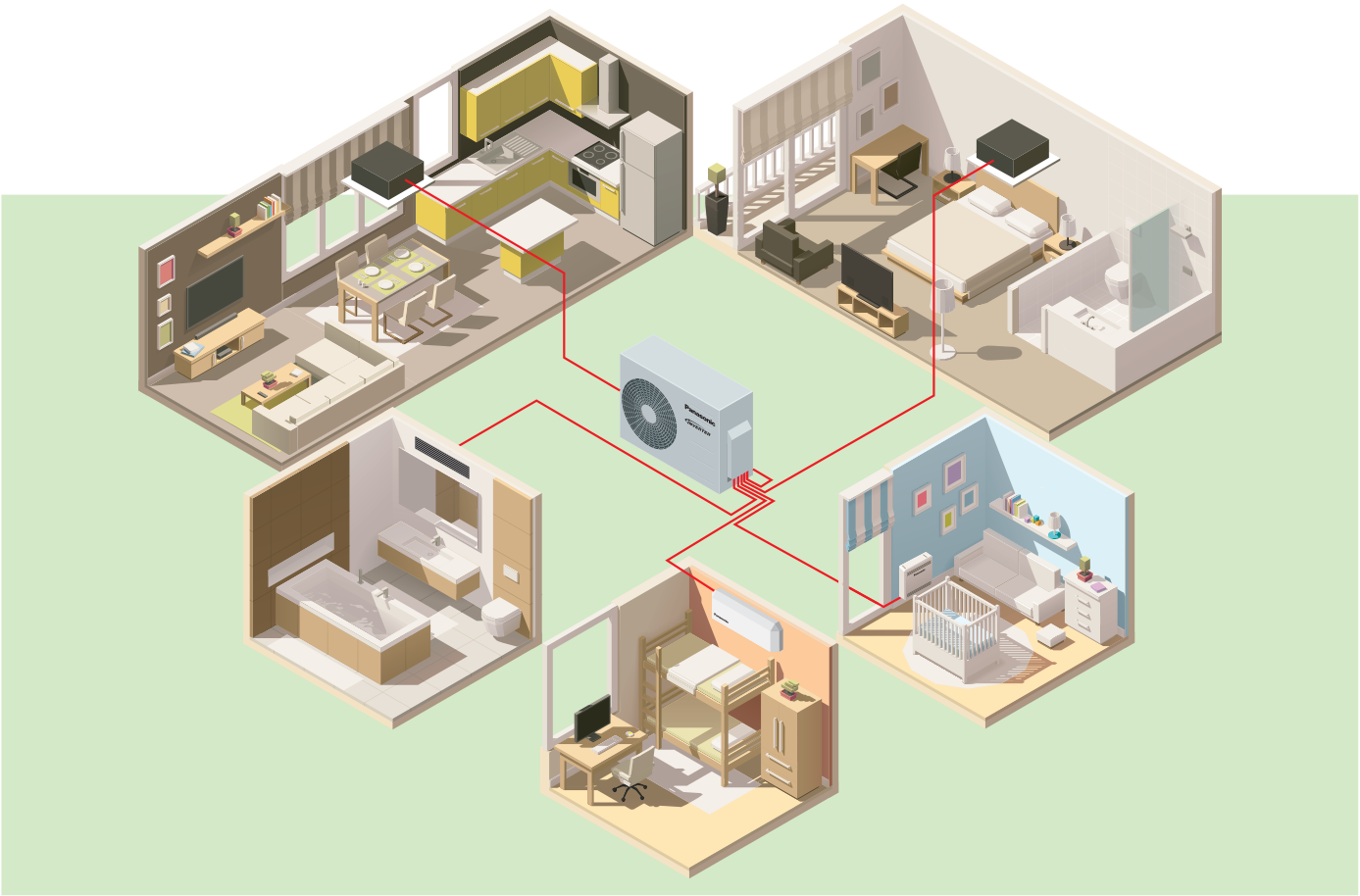
**2 types of Multi Split range from 3,50 to 9,00kW for 5 indoor units with one outdoor unit.**

| Free Multi Z | New Multi TZ Wall with R32 refrigerant |
|---|---|
| Full flexibility up to 9,00kW and up to 5 ports with wide range of indoor units including high performance Etherea indoor units, reaching up to A+++ / A++ | From 4,10 to 5,20kW for TZ Wall Compact Style unit, reaches A++ / A+ |

| | | | | | Indoor units | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Line up** | **Refrigerant** | **Capacities** | **Indoor unit ports** | **Efficiency up to** | **Etherea** | **Compact Style** | **Floor Console** | **Cassette** | **Duct** |
| **Multi Z** | R32 | 8 units (3,50 ~ 9,00kW) | 2~5 | **A+++ / A++** | Yes | Yes | Yes | Yes | Yes |
| **Multi TZ** | R32 | 3 units (4,10 ~ 5,20kW) | 2~3 | **A++ / A+** | | Yes | | | |

## Multi Split systems

| Day and Night | Simultaneous |
|---|---|
| Ideal for 2 day and night areas. Simultaneous use possible. | When indoor units are most time working at same time. |



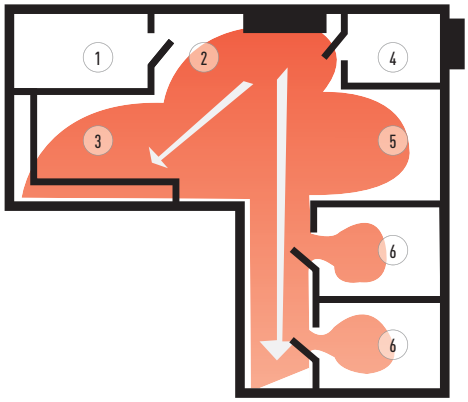
## Why a Multi Split is better than several separate split units

**Up to 5 indoor units with a single outdoor unit.**

- Just one compact outdoor unit
- Increased comfort in the house since every room has its own indoor unit for heating
- Much more powerful than a single split
- More efficient since the units are always operating at full capacity
- You can connect all types of indoor units, such as wall types and consoles, depending on what suits your house best

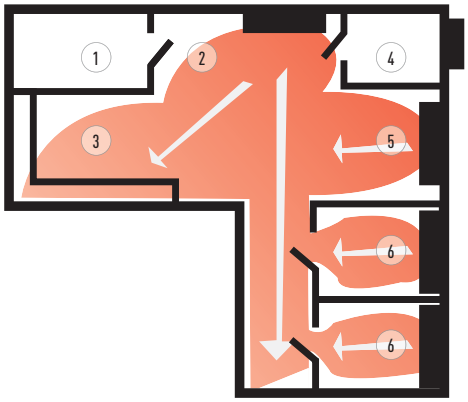
### Solution with single split.

One indoor unit is connected to one outdoor unit. The indoor unit is placed in the main hallway and heats the entire house. Certain rooms may not be perfectly heated, which causes inadequate comfort.




### Solution with Multi Split.

With one outdoor unit, you can connect up to five indoor units. There is one indoor unit per room or area. It gives an extreme increase in comfort levels. On the roof, there is only one outdoor unit.




1. Laundry room
2. Entrance
3. Kitchen/dining area
4. Bathroom
5. Living room
6. Bedroom



R32 · INVERTER+ · R2 ROTARY COMPRESSOR · -15°C HEATING MODE · R22 R410A → R32 R22/R410A RENEWAL · 5 YEARS COMPRESSOR WARRANTY

## Outdoor unit Free Multi System Z • R32 Gas

| Indoor nominal capacity (Min - Max) | | | 3,20 ~ 6,00kW | 3,20 ~ 6,00kW | 3,20 ~ 7,70kW | 4,50 ~ 9,50kW | 4,50 ~ 11,20kW | 4,50 ~ 11,50kW | 4,50 ~ 14,70kW | 4,50 ~ 18,30kW |
|---|---|---|---|---|---|---|---|---|---|---|
| **Unit** | | | **CU-2Z35TBE** | **CU-2Z41TBE** | **CU-2Z50TBE** | **CU-3Z52TBE** | **CU-3Z68TBE** | **CU-4Z68TBE** | **CU-4Z80TBE** | **CU-5Z90TBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,50 (1,50 - 4,50) | 4,10 (1,50 - 5,20) | 5,00 (1,50 - 5,40) | 5,20 (1,80 - 7,30) | 6,80 (1,90 - 8,00) | 6,80 (1,90 - 8,80) | 8,00 (3,00 - 9,20) | 9,00 (2,90 - 11,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,86 (6,00 - 4,09) | 4,56 (6,00 - 3,80) | 4,24 (6,00 - 3,62) | 4,77 | 3,66 (7,04 - 3,38) | 4,39 (5,59 - 3,56) | 4,04 (5,66 - 3,21) | 4,09 (5,27 - 2,98) |
| **SEER [2]** | | | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **8,00 A++** | **8,00 A++** | **7,90 A++** | **8,50 A+++** |
| Pdesign (cooling) | | kW | 3,50 | 4,10 | 5,00 | 5,20 | 6,80 | 6,80 | 8,00 | 9,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,72 (0,25 - 1,10) | 0,90 (0,25 - 1,37) | 1,18 (0,25 - 1,49) | 1,09 (0,36 - 2,18) | 1,86 (0,27 - 2,37) | 1,55 (0,34 - 2,47) | 1,98 (0,53 - 2,87) | 2,20 (0,55 - 3,86) |
| Annual energy consumption [3] | | kWh/a | 144 | 169 | 206 | 214 | 298 | 298 | 990 | 1100 |
| Heating capacity | Nominal (Min - Max) | kW | 4,20 (1,10 - 5,60) | 4,60 (1,10 - 7,00) | 5,60 (1,10 - 7,20) | 6,80 (1,60 - 8,30) | 8,50 (3,30 - 10,40) | 8,50 (3,00 - 10,60) | 9,40 (4,20 - 10,60) | 10,40 (3,40 - 14,50) |
| Heating capacity at -7°C | | kW | — | — | — | 3,95 | 4,45 | 4,45 | — | — |
| COP [1] | Nominal (Min - Max) | W/W | 4,88 (5,24 - 4,18) | 4,79 (5,24 - 3,91) | 4,63 (5,24 - 4,00) | 4,63 (5,00 - 3,82) | 3,95 (5,32 - 3,64) | 4,47 (5,17 - 3,96) | 4,63 (6,00 - 3,46) | 4,84 (6,42 - 3,42) |
| **SCOP [2]** | | | **4,60 A++** | **4,60 A++** | **4,60 A++** | **4,20 A+** | **4,20 A+** | **4,20 A+** | **4,70 A++** | **4,68 A++** |
| Pdesign at -10°C | | kW | 3,20 | 3,50 | 4,20 | 5,00 | 5,20 | 5,80 | 6,80 | 8,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,86 (0,21 - 1,34) | 0,96 (0,21 - 1,79) | 1,21 (0,21 - 1,80) | 1,47 (0,32 - 2,17) | 2,15 (0,62 - 2,86) | 1,90 (0,58 - 2,68) | 2,03 (0,70 - 3,06) | 2,15 (0,53 - 4,24) |
| Annual energy consumption [3] | | kWh/a | 974 | 1065 | 1278 | 1667 | 1733 | 1933 | 2026 | 2543 |
| Current | Cool / Heat | A | 3,35 / 4,00 | 4,15 / 4,45 | 5,35 / 5,50 | 5,00 / 6,70 | 8,40 / 9,70 | 7,00 / 8,60 | 9,50 / 9,50 | 10,50 / 10,10 |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 20 | 20 | 25 |
| Recommended power cable section | | mm² | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 3,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 50 | 48 / 50 | 50 / 52 | 47 / 48 | 51 / 52 | 49 / 50 | 51 / 52 | 53 / 54 |
| Dimension [5] | H x W x D | mm | 619 x 824 x 299 | 619 x 824 x 299 | 619 x 824 x 299 | 795 x 875 x 320 | 795 x 875 x 320 | 795 x 875 x 320 | 999 x 940 x 340 | 999 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 39 | 71 | 71 | 72 | 80 | 81 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| Pipe length range total [6] | | m | 6 ~ 30 | 6 ~ 30 | 6 ~ 30 | 6 ~ 50 | 6 ~ 60 | 6 ~ 60 | 6 ~ 70 | 6 ~ 80 |
| Pipe length range to one unit | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 20 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 |
| Elevation difference (in/out) | | m | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 20 | 20 | 20 | 30 | 30 | 30 | 45 | 45 |
| Additional gas amount | | g/m | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,12 / 0,756 | 1,12 / 0,756 | 1,12 / 0,756 | 2,10 / 1,418 | 2,10 / 1,418 | 2,10 / 1,418 | 2,72 / 1,836 | 2,72 / 1,836 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1m in front and 1m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95mm for piping port. 6) Minimum piping length is 3 meters per indoor unit.

## Possible outdoor / indoor units combinations • R32 Gas

| Rooms | Model | Indoor capacity connected (Min - Max) | NEW Etherea Silver | | | | | | | | NEW Etherea Pure White Matt | | | | | | | | Wall Mounted TZ Compact Style | | | | | | | | Floor Console* | | | | | | | | 4 Way 60x60 Cassette | | | | | | | | Low Static Pressure Hide Away | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| 2 | CU-2Z35TBE | 3,20 ~ 6,00kW | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | |
| | CU-2Z41TBE | 3,20 ~ 6,00kW | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | |
| | CU-2Z50TBE | 3,20 ~ 7,70kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | ✔[1] | | | | | ✔ | ✔ | ✔ | ✔[1] | | | | | ✔ | ✔ | ✔ | ✔[1] | | | | |
| 3 | CU-3Z52TBE | 4,50 ~ 9,50kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | | | | | | | | ✔ | ✔ | ✔ | ✔[1] | | | | | ✔ | ✔ | ✔ | ✔[1] | | | | |
| | CU-3Z68TBE | 4,50 ~ 11,20kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | | | | | | | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | |
| 4 | CU-4Z68TBE | 4,50 ~ 11,50kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | | | | | | | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | |
| | CU-4Z80TBE | 4,50 ~ 14,70kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | ✔[1] | | | | | | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | |
| 5 | CU-5Z90TBE | 4,50 ~ 18,30kW | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | ✔[1] | ✔[1] | | | | | | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | | ✔ | ✔ | ✔ | ✔[1] | ✔[1] | | | |

1) A CZ-MA1P pipe reducer is needed on the 42 and 50, a CZ-MA2P pipe expander is needed on the 60 and 71, and CZ-MA3P pipe reducer on the 71.
Compatible only with 2 ports outdoor CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE. Minimum quantity of connection: 2 indoor units.

## Outdoor Multi combination model

| | | Model |
|---|---|---|
| CS-MZ16VKE / CS-MTZ16TKE<br>CS-XZ20VKEW / CS-Z20VKEW / CS-TZ20TKEW-1 / CS-MZ20UFEA / CS-MZ20UB4EA / CS-MZ20UD3EA<br>CS-XZ25VKEW / CS-Z25VKEW / CS-TZ25TKEW-1 / CS-Z25UFEAW / CS-Z25UB4EAW / CS-Z25UD3EAW<br>CS-XZ35VKEW / CS-Z35VKEW / CS-TZ35TKEW-1 / CS-Z35UFEAW / CS-Z35UB4EAW / CS-Z35UD3EAW | CU-2Z35TBE / CU-2Z41TBE /<br>CU-2Z50TBE / CU-3Z52TBE /<br>CU-3Z68TBE / CU-4Z68TBE /<br>CU-4Z80TBE / CU-5Z90TBE | — |
| CS-Z42TKEW / CS-TZ42TKEW-1<br>CS-XZ50VKEW / CS-Z50VKEW / CS-TZ50TKEW / CS-Z50UFEAW / CS-Z50UB4EAW / CS-Z50UD3EAW | CU-2Z50TBE / CU-3Z52TBE /<br>CU-3Z68TBE / CU-4Z68TBE /<br>CU-4Z80TBE / CU-5Z90TBE | CZ-MA1P |
| CS-TZ60TKEW / CS-Z60UB4EAW / CS-Z60UD3EAW | CU-3Z68TBE / CU-4Z68TBE /<br>CU-4Z80TBE / CU-5Z90TBE | CZ-MA2P |
| CS-Z71VKEW / CS-TZ71TKEW | CU-4Z80TBE / CU-5Z90TBE | CZ-MA2P /<br>CZ-MA3P* |

* For CZ-MA3P necessary to use adaptor CZ-MA2P too.



CZ-MA1P is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".
CZ-MA2P is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".
CZ-MA3P is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".




NEW 2019


**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Built-in.

nanoe X | 21dB(A) | AEROWINGS | BUILT-IN WLAN | BMS CONNECTIVITY

| NEW Wall Mounted Etherea | Indoor unit Silver | Indoor unit Pure White Matt | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | — | CS-MZ16VKE | 1,60 | 2,60 | 4 x 1,5 | 38/26/21 — 39/27/21 | 295 x 919 x 194/9 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-XZ20VKEW | CS-Z20VKEW | 2,00 | 3,20 | 4 x 1,5 | 39/26/21 — 40/27/21 | 295 x 919 x 194/9 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-XZ25VKEW | CS-Z25VKEW | 2,50 | 3,60 | 4 x 1,5 | 41/27/21 — 43/29/21 | 295 x 919 x 194/10 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW | CS-XZ35VKEW | CS-Z35VKEW | 3,20 | 4,50 | 4 x 1,5 | 44/30/21 — 45/35/21 | 295 x 919 x 194/10 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | — | CS-Z42VKEW | 4,00 | 5,60 | 4 x 1,5 | 44/33/27 — 45/37/31 | 295 x 919 x 194/10 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-XZ50VKEW | CS-Z50VKEW | 5,00 | 6,80 | 4 x 1,5 | 44/39/32 — 46/39/32 | 302 x 1120 x 236/12 | 1/4 (6,35) / 1/2 (12,70) |
| 7,10kW | — | CS-Z71VKEW | 7,10 | 8,60 | — | 49/40/32 — 49/40/32 | 302 x 1120 x 236/13 | 1/4 (6,35) / 5/8 (15,88) |





**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Optional.

PM2,5 FILTER | AEROWINGS | OPTIONAL WLAN | BMS CONNECTIVITY

| Wall Mounted TZ Compact Style | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | CS-MTZ16TKE | 1,60 | 2,60 | 4 x 1,5 | 38/27/22 — 39/28/24 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-TZ20TKEW-1 | 2,00 | 3,20 | 4 x 1,5 | 39/27/22 — 40/28/24 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-TZ25TKEW-1 | 2,50 | 3,60 | 4 x 1,5 | 42/28/22 — 42/29/24 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-TZ35TKEW-1 | 3,50 | 4,50 | 4 x 1,5 | 44/32/22 — 44/35/24 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | CS-TZ42TKEW-1 | 4,20 | 5,00 | 4 x 1,5 | 44/33/31 — 46/37/30 | 290 x 799 x 197/8 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-TZ50TKEW | 5,00 | 5,30 | 4 x 1,5 | 44/39/36 — 46/39/36 | 302 x 1102 x 244/12 | 1/4 (6,35) / 1/2 (12,70) |
| 6,00kW | CS-TZ60TKEW | 6,00 | 8,50 | 4 x 1,5 | 44/39/36 — 47/39/36 | 302 x 1102 x 244/12 | 1/4 (6,35) / 1/2 (12,70) |
| 7,10kW | CS-TZ71TKEW | 7,10 | 8,70 | 4 x 1,5 | 49/40/37 — 49/40/37 | 302 x 1102 x 244/13 | 1/4 (6,35) / 1/2 (12,70) |





**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Optional.

nanoe X | OPTIONAL WLAN | BMS CONNECTIVITY

| Floor Console [3] | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [4] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UFEA | 2,00 | 3,20 | 4 x 1,5 | 39/27/22 — 39/27/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UFEAW | 2,50 | 3,60 | 4 x 1,5 | 40/27/22 — 40/27/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UFEAW | 3,50 | 4,50 | 4 x 1,5 | 41/28/22 — 41/28/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW | CS-Z50UFEAW | 5,00 | 5,30 | 4 x 1,5 | 44/33/29 — 48/35/31 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |





**CZ-BT20EW**
RAL9010 panel for 4 Way 60x60 Cassette (sold separately).



**CZ-RD52CP**
Optional wired remote controller.

INTERNET CONTROL READY and EASY CONTROL BY BMS: Optional.

OPTIONAL WLAN | BMS CONNECTIVITY

| 4 Way 60x60 Cassette | Indoor unit (Panel CZ-BT20EW) | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [4] | Dimension / Net weight | | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | Indoor H x W x D | Panel H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UB4EA | 2,00 | 3,20 | 4 x 1,5 | 35/27/24 — 36/30/27 | 260 x 575 x 575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UB4EAW | 2,50 | 3,60 | 4 x 1,5 | 36/27/24 — 37/30/27 | 260 x 575 x 575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UB4EAW | 3,50 | 4,50 | 4 x 1,5 | 36/28/25 — 37/30/27 | 260 x 575 x 575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW [5] | CS-Z50UB4EAW | 5,00 | 6,80 | 4 x 1,5 | 39/30/27 — 40/31/28 | 260 x 575 x 575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 6,00kW | CS-Z60UB4EAW | 6,00 | 8,50 | 4 x 1,5 | 44/34/31 — 45/34/31 | 260 x 575 x 575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 1/2 (12,70) |





**CZ-RL511D**
NEW optional wireless kit.

INTERNET CONTROL READY and EASY CONTROL BY BMS: Optional.

FILTER INCLUDED | OPTIONAL WLAN | BMS CONNECTIVITY

| Low Static Pressure Hide Away | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [7] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UD3EA | 2,00 | 3,20 | 4 x 1,5 | 34/29/26 — 36/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UD3EAW | 2,50 | 3,60 | 4 x 1,5 | 35/29/26 — 37/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UD3EAW | 3,50 | 4,50 | 4 x 1,5 | 35/29/26 — 37/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW [5] | CS-Z50UD3EAW | 5,00 | 6,80 | 4 x 1,5 | 41/31/28 — 41/32/29 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 6,00kW | CS-Z60UD3EAW | 6,00 | 8,50 | 4 x 1,5 | 43/32/29 — 43/34/31 | 200 x 750 x 640/19 | 1/4 (6,35) / 1/2 (12,70) |

1) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 2) The heating capacity is 4,20kW connected to a CU-2Z35TBE. 3) Compatible only with 2 ports Outdoor CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE. 4) The sound pressure of the units shows the value measured of a position 1m in front of the main body and 1m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) The heating capacity is 5,30kW connected to a CU-2Z50TBE. 6) The sound pressure of the indoor unit shows the value measured of a position 1,5m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) The sound pressure of the indoor unit shows the value measured of a position of 1,5m below the unit with 1m duct on the suction side and 2m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



R32 · INVERTER+ · R2 ROTARY COMPRESSOR · -15°C HEATING MODE · R22 R410A → R32 R22/R410A RENEWAL · 5 YEARS COMPRESSOR WARRANTY

## Outdoor unit Multi Wall TZ • R32 Gas

| Indoor nominal capacity (Min - Max) | | | 3,20 ~ 6,00kW | 3,20 ~ 7,70kW | 4,50 ~ 9,50kW |
|---|---|---|---|---|---|
| **Unit** | | | **CU-2TZ41TBE** | **CU-2TZ50TBE** | **CU-3TZ52TBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 4,10 (1,50 - 4,70) | 5,00 (1,50 - 5,40) | 5,20 (1,80 - 6,60) |
| EER [1] | Nominal (Min - Max) | W/W | 4,14 (5,56 - 3,41) | 3,85 (5,56 - 3,33) | 4,52 (3,67 - 5,00) |
| **SEER [2]** | | | **7,10** A+++ | **7,00** A++ | **7,60** A++ |
| Pdesign (cooling) | | kW | 4,10 | 5,00 | 5,20 |
| Input power cooling | Nominal (Min - Max) | kW | 0,99 (0,27 - 1,38) | 1,30 (0,27 - 1,62) | 1,15 (0,36 - 1,80) |
| Annual energy consumption [3] | | kWh/a | 202 | 250 | 239 |
| Heating capacity | Nominal (Min - Max) | kW | 4,40 (1,10 - 6,30) | 5,70 (1,10 - 6,40) | 6,80 (1,60 - 7,50) |
| Heating capacity at -7°C | | kW | — | — | — |
| COP [1] | Nominal (Min - Max) | W/W | 4,44 (5,00 - 3,54) | 4,35 (5,00 - 3,62) | 4,28 (3,87 - 5,00) |
| **SCOP [2]** | | | **4,30** A+ | **4,20** A+ | **4,20** A+ |
| Pdesign at -10°C | | kW | 3,50 | 4,50 | 5,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,99 (0,22 - 1,78) | 1,31 (0,22 - 1,77) | 1,59 (0,32 - 1,94) |
| Annual energy consumption [3] | | kWh/a | 1139 | 1500 | 1667 |
| Current | Cool / Heat | A | 4,60 / 4,60 | 6,00 / 6,00 | 5,30 / 7,30 |
| Power source | | V | 230 | 230 | 230 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 50 | 50 / 52 | 48 / 48 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 795 x 875 x 320 |
| Net weight | | kg | 35 | 35 | 71 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| Pipe length range total | | m | 6 ~ 30 | 6 ~ 30 | 6 ~ 50 |
| Pipe length range to one unit | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 25 |
| Elevation difference (in/out) | | m | 10 | 10 | 15 |
| Pipe length for additional gas | | m | 20 | 20 | 30 |
| Additional gas amount | | g/m | 15 | 15 | 20 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,9 / 0,6075 | 0,9 / 0,6075 | 2,1 / 1,4175 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1m in front and 1m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95mm for piping port.

## Possible outdoor / indoor units combinations • R32 Gas

| Rooms | Model | Indoor capacity connected (Min - Max) | Wall Mounted TZ Compact Style | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16 | 20 | 25 | 35 | 42 | 50 |
| 2 | **CU-2TZ41TBE** | **3,20 ~ 6,00kW** | ✔ | ✔ | ✔ | ✔ | | |
| | **CU-2TZ50TBE** | **3,20 ~ 7,70kW** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 3 | **CU-3TZ52TBE** | **4,50 ~ 9,50kW** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

Minimum quantity of connection: 2 indoor units.



INTERNET CONTROL: Optional. · PM2,5 FILTER · 22dB(A) · AEROWINGS · OPTIONAL WLAN · BMS CONNECTIVITY

| Wall Mounted TZ Compact Style | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi / Lo / S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | CS-MTZ16TKE | 1,60 | 2,60 | 4 x 1,5 | 38 / 27 / 22 — 39 / 28 / 24 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-TZ20TKEW-1 | 2,00 | 3,20 | 4 x 1,5 | 39 / 27 / 22 — 40 / 28 / 24 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-TZ25TKEW-1 | 2,50 | 3,60 | 4 x 1,5 | 42 / 28 / 22 — 42 / 29 / 24 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW | CS-TZ35TKEW-1 | 3,50 | 4,50 | 4 x 1,5 | 44 / 32 / 22 — 44 / 35 / 24 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | CS-TZ42TKEW-1 | 4,20 | 5,00 | 4 x 1,5 | 44 / 33 / 31 — 46 / 37 / 30 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-TZ50TKEW | 5,00 | 5,30 | 4 x 1,5 | 44 / 39 / 36 — 46 / 39 / 36 | 302 x 1102 x 244 / 12 | 1/4 (6,35) / 1/2 (12,70) |

1) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed.



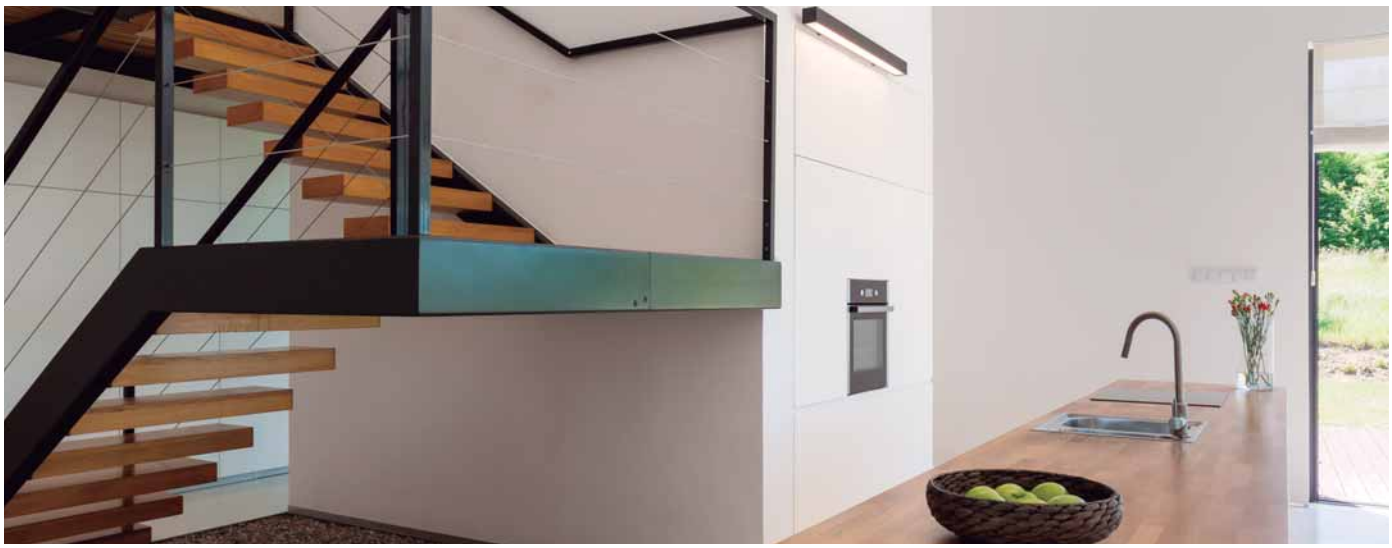
NEW 2019

INTERNET CONTROL: Built-in.

## NEW Etherea Multi Split Inverter+ • R32 Gas

| | | | Day and Night | | | | |
|---|---|---|---|---|---|---|---|
| **Rooms** | | | **2 Rooms** | | | **3 Rooms** | |
| **Kit Silver** | | | **KIT-2XZ2525-TBE** | **KIT-2XZ2035-TBE** | **KIT-2XZ2535-TBE** | **KIT-3XZ202035-TBE** | **KIT-3XZ252535-TBE** |
| **Indoor unit Silver** | | | **CS-XZ25VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW**<br>**CS-XZ25VKEW** |
| **Kit Pure White Matt** | | | **KIT-2Z2525-TBE** | **KIT-2Z2035-TBE** | **KIT-2Z2535-TBE** | **KIT-3Z202035-TBE** | **KIT-3Z252535-TBE** |
| **Indoor unit Pure White Matt** | | | **CS-Z25VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW**<br>**CS-Z25VKEW** |
| **Outdoor unit** | | | **CU-2Z41TBE** | **CU-2Z41TBE** | **CU-2Z41TBE** | **CU-3Z52TBE** | **CU-3Z52TBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (1,10 - 3,50) | 4,10 (1,50 - 5,20) | 4,10 (1,50 - 5,20) | 5,20 (1,80 - 7,30) | 5,20 (1,80 - 7,30) |
| EER | | W/W | 3,73 | 4,56 | 4,56 | 4,48 | 4,48 |
| **SEER** | | | | | | | |
| Heating capacity | Nominal (Min - Max) | kW | 3,60 (0,70 - 5,50) | 4,60 (1,10 - 7,00) | 4,60 (1,10 - 7,00) | 6,80 (1,60 - 8,30) | 6,80 (1,60 - 8,30) |
| COP | | W/W | 3,50 | 4,84 | 4,84 | 4,79 | 4,79 |
| **SCOP** | | | | | | | |
| Indoor dimension | (H x W x D) | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 |
| Indoor net weight | | kg | 10 | 10 (9 for Z20) | 10 | 10 (9 for Z20) | 10 |

| | | | Simultaneous | | | | |
|---|---|---|---|---|---|---|---|
| **Rooms** | | | **2 Rooms** | | | **3 Rooms** | |
| **Kit Silver** | | | **KIT-2XZ2525-VKE** | **KIT-2XZ2035-VKE** | **KIT-2XZ2535-VKE** | **KIT-3XZ202035-VKE** | **KIT-3XZ252535-VKE** |
| **Indoor unit Silver** | | | **CS-XZ25VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW**<br>**CS-XZ25VKEW** |
| **Kit Pure White Matt** | | | **KIT-2Z2525-VKE** | **KIT-2Z2035-VKE** | **KIT-2Z2535-VKE** | **KIT-3Z202035-VKE** | **KIT-3Z252535-VKE** |
| **Indoor unit Pure White Matt** | | | **CS-Z25VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW**<br>**CS-Z25VKEW** |
| **Outdoor unit** | | | **CU-2Z50TBE** | **CU-2Z50TBE** | **CU-2Z50TBE** | **CU-3Z68TBE** | **CU-3Z68TBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 5,00 (1,50 - 5,40) | 5,00 (1,50 - 5,40) | 5,00 (1,50 - 5,40) | 6,80 (1,90 - 8,00) | 6,80 (1,90 - 8,00) |
| EER | | W/W | 4,24 | 4,24 | 4,24 | 3,56 | 3,56 |
| **SEER** | | | **8,50** A+++ | | | | |
| Heating capacity | Nominal (Min - Max) | kW | 5,60 (1,10 - 7,20) | 5,40 (1,10 - 7,20) | 5,40 (1,10 - 7,20) | 8,50 (3,30 - 10,40) | 8,50 (3,30 - 10,40) |
| COP | | W/W | 4,63 | 4,63 | 4,63 | 4,09 | 4,09 |
| **SCOP** | | | **4,60** A++ | | | | |
| Indoor dimension | (H x W x D) | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 |
| Indoor net weight | | kg | 10 | 10 (9 for Z20) | 10 | 10 (9 for Z20) | 10 |



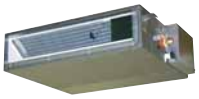
Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# DOMESTIC AIR CONDITIONER RANGE R410A

| Page | Indoor units | 2,00kW | 2,50kW | 3,50kW |
|---|---|---|---|---|
| P. 118 | Wall Mounted Etherea Inverter+ Silver • **R410A Gas** |  CS-XE7SKEW |  CS-XE9SKEW |  CS-XE12SKEW |
| P. 118 | Wall Mounted Etherea Inverter+ Matt Pearl White • **R410A Gas** |  CS-E7SKEM-M |  CS-E9SKEM-M |  CS-E12SKEM-M |
| P. 119 | Wall Mounted TE Compact Style • **R410A Gas** [1] |  CS-TE20TKEW |  CS-TE25TKEW |  CS-TE35TKEW |
| P. 120 | Wall Mounted FE Type Standard Inverter • **R410A Gas** | |  CS-FE25UKE |  CS-FE35UKE |
| P. 121 | Wall Mounted BE Type Standard Inverter • **R410A Gas** | |  CS-BE25TKE-1 |  CS-BE35TKE-1 |
| P. 122 | Wall Mounted DE Type Standard Inverter • **R410A Gas** | |  CS-DE25TKE-1 |  CS-DE35TKE-1 |
| P. 123 | Wall Mounted Professional Inverter -20°C • **R410A Gas** | |  CS-E9PKEA |  CS-E12PKEA |
| P. 124 | 4-Way 60x60 Cassette Standard Inverter • **R410A Gas** | |  CS-E9PB4EA |  CS-E12PB4EA |
| P. 125 | Low Static Pressure Hide Away Standard Inverter • **R410A Gas** | |  CS-E9PD3EA |  CS-E12-QD3EAW |

1) Indoor units available for Free Multi E combinations.

| Page | Free Multi Outdoors | 3,20 ~ 5,70kW | 3,20 ~ 5,70kW | 3,20 ~ 7,50kW | 4,50 ~ 9,00kW | 4,50 ~ 11,00kW | 4,50 ~ 11,00kW | 4,50 ~ 13,60kW | 4,50 ~ 17,50kW |
|---|---|---|---|---|---|---|---|---|---|
| P. 126 | Outdoor unit Free Multi System E • **R410A Gas** |  CU-2E12SBE |  CU-2E15SBE |  CU-2E18SBE |  CU-3E18PBE |  CU-3E23SBE |  CU-4E23PBE |  CU-4E27PBE |  CU-5E34PBE |

| 4,20kW | 5,00kW | 6,00kW |
|---|---|---|
| |  CS-XE18SKEW | |
|  CS-E15SKEM-M |  CS-E18SKEM-M | |
|  CS-TE42TKEW |  CS-TE50TKEW |  CS-TE60TKEW |
| |  CS-FE50UKE | |
| |  CS-BE50TKE | |
| |  CS-DE50TKE | |
|  CS-E15PKEA |  CS-E18PKEA | |
| |  CS-E18RB4EAW |  CS-E21RB4EAW |
| |  CS-E18RD3EAW | |

| Page | Multi Wall TZ/TE Outdoors | 4,00 ~ 5,70kW | 4,00 ~ 7,50kW | 4,80 ~ 9,00kW |
|---|---|---|---|---|
| P. 128 | Outdoor unit Multi RE for wall TZ indoors • **R410A Gas** |  CU-2RE15SBE |  CU-2RE18SBE |  CU-3RE18SBE |

# Wall Mounted Etherea Inverter+ Silver / Matt Pearl White • R410A GAS

ETHEREA





## Etherea with nanoe™ X air-purifying system

The nanoe™ revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of certain airborne and adhesive micro-organisms like bacteria, viruses and mould.

## Technical focus

- Econavi sensor: Even higher efficiency and great comfort
- nanoe™ air purifying system, 99% effective to certain airborne and adhesives mould, viruses, bacteria and pollen allergen
- Aerowings to control air draft direction
- Mild Dry Cooling: prevent a rapid decrease in room humidity
- Super Quiet! Only 19dB(A), equivalent to night-time in the countryside
- More powerful airflow to quickly reach the desired temperature
- Wired control (Optional)
- Smartphone control (Optional)

| **Kit Silver** | | | **KIT-XE7-SKE** | **KIT-XE9-SKE** | **KIT-XE12-SKE** | **—** | **KIT-XE18-SKE** |
|---|---|---|---|---|---|---|---|
| **Kit Matt Pearl White** | | | **KIT-E7-SKEM** | **KIT-E9-SKEM** | **KIT-E12-SKEM** | **KIT-E15-SKEM** | **KIT-E18-SKEM** |
| Cooling capacity | Nominal (Min - Max) | kW | 2,05 (0,75 - 2,40) | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 4,00) | 4,20 (0,85 - 5,00) | 5,00 (0,98 - 5,60) |
| EER [1] | Nominal (Min - Max) | W/W | 4,51 (3,13 - 4,29) | 4,67 (3,54 - 4,11) | 4,07 (3,54 - 3,67) | 3,33 (3,27 - 3,13) | 3,16 (3,50 - 3,08) |
| **SEER [2]** | | | **7,10** A++ | **8,20** A++ | **8,10** A++ | **6,60** A++ | **6,90** A++ |
| Pdesign (cooling) | | kW | 2,10 | 2,50 | 3,50 | 4,20 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,46 (0,24 - 0,56) | 0,54 (0,24 - 0,73) | 0,86 (0,24 - 1,09) | 1,26 (0,26 - 1,60) | 1,58 (0,28 - 1,82) |
| Annual energy consumption [3] | | kWh/a | 104 | 107 | 151 | 223 | 254 |
| Heating capacity | Nominal (Min - Max) | kW | 2,80 (0,70 - 4,00) | 3,40 (0,80 - 5,00) | 4,00 (0,80 - 5,80) | 5,30 (0,80 - 6,80) | 5,80 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,38 | 2,95 | 3,40 | 4,11 | 4,66 |
| COP [1] | Nominal (Min - Max) | W/W | 4,48 (3,89 - 4,00) | 4,59 (4,44 - 3,82) | 4,21 (4,44 - 3,72) | 3,58 (4,21 - 3,42) | 3,30 (2,88 - 3,10) |
| **SCOP [2]** | | | **4,60** A++ | **4,70** A++ | **4,80** A++ | **3,90** A | **4,20** A+ |
| Pdesign at -10°C | | kW | 2,10 | 2,70 | 3,20 | 3,60 | 4,20 |
| Input power heating | Nominal (Min - Max) | kW | 0,63 (0,18 - 1,00) | 0,74 (0,18 - 1,31) | 0,95 (0,18 - 1,56) | 1,48 (0,19 - 1,99) | 1,76 (0,34 - 2,42) |
| Annual energy consumption [3] | | kWh/a | 639 | 804 | 933 | 1292 | 1400 |
| **Indoor unit Silver** | | | **CS-XE7SKEW** | **CS-XE9SKEW** | **CS-XE12SKEW** | **—** | **CS-XE18SKEW** |
| **Indoor unit Matt Pearl White** | | | **CS-E7SKEW-M** | **CS-E9SKEW-M** | **CS-E12SKEW-M** | **CS-E15SKEW-M** | **CS-E18SKEW-M** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air volume | Cool / Heat | m³/min | 9,9 / 10,8 | 10,0 / 11,3 | 10,7 / 12,0 | 11,2 / 12,2 | 11,7 / 12,4 |
| Moisture removal volume | | L/h | 1,3 | 1,5 | 2,0 | 2,4 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 24 / 19 | 39 / 25 / 19 | 42 / 28 / 19 | 43 / 31 / 25 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 25 / 19 | 40 / 27 / 19 | 42 / 33 / 19 | 43 / 35 / 29 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 |
| Net weight | | kg | 9 | 10 | 10 | 10 | 10 |
| **Outdoor unit** | | | **CU-E7SKE** | **CU-E9SKE** | **CU-E12SKE** | **CU-E15SKE** | **CU-E18SKE** |
| Air volume | Cool / Heat | m³/min | 26,9 / 26,9 | 28,7 / 28,7 | 34,4 / 35,6 | 33,3 / 33,3 | 39,2 / 37,9 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 45 / 46 | 46 / 47 | 48 / 50 | 49 / 51 | 47 / 47 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 |
| Net weight | | kg | 30 | 33 | 35 | 32 | 46 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 20 | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,04 / 2,172 | 1,06 / 2,213 | 1,20 / 2,506 | 1,04 / 2,172 | 1,28 / 2,673 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| **Accessories** | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: SEER for KIT-XE9-SKE and KIT-E9-SKEM and SCOP for KIT-XE12-SKE and KIT-E12-SKEM. SUPER QUIET: For KIT-XE7-SKE, KIT-E7-SKEM, KIT-XE9-SKE, KIT-E9-SKEM, KIT-XE12-SKE and KIT-E12-SKEM. INTERNET CONTROL: Optional.

# Wall Mounted TE Compact Style Inverter
## • R410A GAS





### TE compact indoor size

The TE indoor units have compact size. With 799mm of width, you can put the air conditioner on the top of the door.

### Technical focus

- Compact design with 799mm
- Aerowings to control air draft direction
- PM2,5 Filter to create clean and comfort indoor quality
- Complete line-up of standard Inverter models
- Super Quiet! Only 20dB(A)
- High energy savings
- These units can be installed on R22 pipings
- Long connection distance (from 15m up to 30m)
- Wired control (Optional)
- Smartphone control (Optional)

| **Kit** | | | **KIT-TE20-TKE** | **KIT-TE25-TKE** | **KIT-TE35-TKE** | **KIT-TE42-TKE** | **KIT-TE50-TKE** | **KIT-TE60-TKE** |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,00 (0,75 - 2,40) | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 3,90) | 4,20 (0,85 - 4,60) | 5,00 (0,98 - 5,60) | 6,30 (0,98 - 7,10) |
| EER [1] | Nominal (Min - Max) | W/W | 3,77 (3,00 - 3,75) | 3,73 (3,40 - 3,30) | 3,43 (3,33 - 3,22) | 3,28 (3,21 - 2,75) | 3,36 (3,44 - 3,20) | 3,20 (3,50 - 2,93) |
| **SEER [2]** | | | **6,10** A++ | **6,10** A++ | **6,10** A++ | **5,60** A+ | **6,50** A++ | **6,20** A++ |
| Pdesign (cooling) | | kW | 2,00 | 2,50 | 3,50 | 4,20 | 5,00 | 6,30 |
| Input power cooling | Nominal (Min - Max) | kW | 0,53 (0,25 - 0,64) | 0,67 (0,25 - 0,91) | 1,02 (0,26 - 1,21) | 1,28 (0,27 - 1,67) | 1,49 (0,29 - 1,75) | 1,97 (0,28 - 2,42) |
| Annual energy consumption [3] | | kWh/a | 115 | 143 | 201 | 263 | 269 | 356 |
| Heating capacity | Nominal (Min - Max) | kW | 2,70 (0,70 - 3,60) | 3,30 (0,80 - 4,10) | 4,00 (0,80 - 5,10) | 5,00 (0,80 - 6,80) | 5,80 (0,98 - 7,80) | 7,20 (0,98 - 8,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,70 | 3,30 | 3,90 | 4,66 | 5,24 |
| COP [1] | Nominal (Min - Max) | W/W | 3,97 (3,78 - 3,43) | 4,07 (4,10 - 3,57) | 3,74 (4,00 - 3,54) | 3,65 (4,00 - 3,29) | 3,72 (2,88 - 3,36) | 3,38 (2,88 - 3,13) |
| **SCOP [2]** | | | **4,00** A+ | **4,10** A+ | **4,10** A+ | **3,80** A | **4,10** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 2,80 | 3,60 | 4,00 | 4,60 |
| Input power heating | Nominal (Min - Max) | kW | 0,68 (0,19 - 1,05) | 0,81 (0,20 - 1,15) | 1,07 (0,20 - 1,44) | 1,37 (0,20 - 2,07) | 1,56 (0,34 - 2,32) | 2,13 (0,34 - 2,74) |
| Annual energy consumption [3] | | kWh/a | 665 | 820 | 956 | 1326 | 1366 | 1610 |
| **Indoor unit** | | | **CS-TE20TKEW** | **CS-TE25TKEW** | **CS-TE35TKEW** | **CS-TE42TKEW** | **CS-TE50TKEW** | **CS-TE60TKEW** |
| Air volume | Cool / Heat | m³/min | 10,0 / 10,9 | 10,9 / 11,6 | 11,8 / 12,5 | 12,3 / 12,9 | 19,9 / 20,8 | 20,8 / 21,4 |
| Moisture removal volume | | L/h | 1,3 | 1,5 | 2,0 | 2,4 | 2,8 | 3,5 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 25 / 20 | 40 / 26 / 20 | 42 / 30 / 20 | 44 / 31 / 29 | 44 / 37 / 34 | 45 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 38 / 26 / 22 | 40 / 27 / 22 | 42 / 33 / 22 | 44 / 35 / 28 | 44 / 37 / 34 | 45 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 302 x 1102 x 244 | 302 x 1102 x 244 |
| Net weight | | kg | 8 | 8 | 8 | 8 | 12 | 12 |
| **Outdoor unit** | | | **CU-TE20TKE** | **CU-TE25TKE** | **CU-TE35TKE** | **CU-TE42TKE** | **CU-TE50TKE** | **CU-TE60TKE** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat | m³/min | 31,2 / 29,7 | 30,0 / 28,9 | 28,7 / 30,4 | 33,6 / 34,0 | 33,0 / 33,9 | 42,6 / 41,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 47 / 48 | 48 / 50 | 49 / 51 | 48 / 49 | 49 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 |
| Net weight | | kg | 26 | 27 | 32 | 32 | 40 | 42 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 | 3 ~ 20 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 15 | 15 | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 0,66 / 1,378 | 0,77 / 1,608 | 0,95 / 1,984 | 1,01 / 2,109 | 1,38 / 2,881 | 1,34 / 2,798 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| **Accessories** | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-TE50-TKE. SUPER QUIET: For KIT-TE25-TKE, KIT-TE25-TKE and KIT-TE35-TKE. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Wall Mounted FE Type Standard Inverter
# • R410A GAS

## FE series inverter powerful and efficient

## Technical focus

- PM2,5 Filter to create clean and comfort indoor quality
- Super Quiet! Only 20dB(A)
- High energy savings
- These units can be installed on R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)





| Kit | | | KIT-FE25-UKE | KIT-FE35-UKE | KIT-FE50-UKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,57 (3,40 - 3,26) | 3,12 (3,33 - 3,00) | 2,98 (3,44 - 2,86) |
| **SEER [2]** | | | **6,20** A++ | **6,10** A++ | **6,20** A++ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,70 (0,25 - 0,92) | 1,09 (0,26 - 1,30) | 1,68 (0,29 - 1,89) |
| Annual energy consumption [3] | | kWh/a | 141 | 195 | 282 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 3,99 (4,10 - 3,43) | 3,66 (4,10 - 3,41) | 3,38 (2,80 - 3,04) |
| **SCOP [2]** | | | **3,80** A | **3,80** A | **3,90** A |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,79 (0,20 - 1,05) | 1,05 (0,20 - 1,29) | 1,60 (0,35 - 2,47) |
| Annual energy consumption [3] | | kWh/a | 700 | 884 | 1436 |
| **Indoor unit** | | | **CS-FE25UKE** | **CS-FE35UKE** | **CS-FE50UKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-FE25UKE** | **CU-FE35UKE** | **CU-FE50UKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 38 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 15 | 15 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 0,66 / 1,378 | 0,86 / 1,796 | 1,34 / 2,798 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed (the lowest set fan speed for FE50). 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-DE50-TKE. INTERNET CONTROL: Optional.

# Wall Mounted BE Type Standard Inverter
# • R410A GAS





## BE series inverter powerful and efficient

## Technical focus

- Super Quiet! Only 20dB(A)
- High energy savings
- These units can be installed on R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)

| Kit | | | KIT-BE25-TKE-1 | KIT-BE35-TKE-1 | KIT-BE50-TKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,52 (3,40 - 3,23) | 3,06 (3,33 - 2,95) | 2,94 (3,44 - 2,83) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **5,90** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,71 (0,25 - 0,93) | 1,11 (0,26 - 1,32) | 1,70 (0,29 - 1,91) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 297 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 4,04 (4,10 - 3,46) | 3,69 (4,10 - 3,44) | 3,40 (2,80 - 3,05) |
| **SCOP [2]** | | | **4,00** A+ | **4,00** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,78 (0,20 - 1,04) | 1,04 (0,20 - 1,28) | 1,59 (0,35 - 2,46) |
| Annual energy consumption [3] | | kWh/a | 665 | 840 | 1400 |
| **Indoor unit** | | | **CS-BE25TKE-1** | **CS-BE35TKE-1** | **CS-BE50TKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-BE25TKE-1** | **CU-BE35TKE-1** | **CU-BE50TKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 38 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 15 | 15 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 0,66 / 1,378 | 0,86 / 1,796 | 1,34 / 2,798 |
| Operating range | Cool Min ~ Max | °C | +5 ~ +43 | +5 ~ +43 | +5 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed (the lowest set fan speed for BE50). 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-BE50-TKE. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Wall Mounted DE Type Standard Inverter
# • R410A GAS





## DE Inverter models are powerful and efficient

## Technical focus

- Super Quiet! Only 20dB(A)
- High energy savings
- These units can be installed on R22 pipings
- Long connection distance
- Wired control (Optional)
- Smartphone control (Optional)

| Kit | | | KIT-DE25-TKE-1 | KIT-DE35-TKE-1 | KIT-DE50-TKE |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 3,90) | 5,00 (0,98 - 5,40) |
| EER [1] | Nominal (Min - Max) | W/W | 3,52 (3,40 - 3,23) | 3,06 (3,33 - 2,95) | 2,94 (3,44 - 2,83) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **5,90** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,71 (0,25 - 0,93) | 1,11 (0,26 - 1,32) | 1,70 (0,29 - 1,91) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 297 |
| Heating capacity | Nominal (Min - Max) | kW | 3,15 (0,80 - 3,60) | 3,84 (0,80 - 4,40) | 5,40 (0,98 - 7,50) |
| Heating capacity at -7°C | | kW | 2,14 | 2,60 | 4,58 |
| COP [1] | Nominal (Min - Max) | W/W | 4,04 (4,10 - 3,46) | 3,69 (4,10 - 3,44) | 3,40 (2,80 - 3,05) |
| **SCOP [2]** | | | **4,00** A+ | **4,00** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 1,90 | 2,40 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,78 (0,20 - 1,04) | 1,04 (0,20 - 1,28) | 1,59 (0,35 - 2,46) |
| Annual energy consumption [3] | | kWh/a | 665 | 840 | 1400 |
| **Indoor unit** | | | **CS-DE25TKE-1** | **CS-DE35TKE-1** | **CS-DE50TKE** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Air volume | Cool / Heat | m³/min | 10,3 / 11,0 | 10,7 / 11,2 | 11,6 / 12,5 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,8 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 37 / 26 / 20 | 38 / 30 / 20 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 37 / 27 / 24 | 38 / 33 / 25 | 44 / 37 / 34 |
| Dimension | H x W x D | mm | 290 x 850 x 199 | 290 x 850 x 199 | 290 x 870 x 214 |
| Net weight | | kg | 8 | 8 | 9 |
| **Outdoor unit** | | | **CU-DE25TKE-1** | **CU-DE35TKE-1** | **CU-DE50TKE** |
| Air volume | Cool / Heat | m³/min | 30,5 / 30,5 | 31,1 / 31,1 | 32,7 / 32,7 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 48 / 49 | 48 / 50 | 48 / 49 |
| Dimension [5] | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 619 x 824 x 299 |
| Net weight | | kg | 26 | 27 | 38 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 15 | 15 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 0,66 / 1,378 | 0,86 / 1,796 | 1,34 / 2,798 |
| Operating range | Cool Min ~ Max | °C | +5 ~ +43 | +5 ~ +43 | +5 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

| Accessories | |
|---|---|
| **CZ-RD514C** | Wired remote controller for Wall Mounted and Floor Console |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed (the lowest set fan speed for DE50). 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. * Tentative data.




SEER and SCOP: For KIT-DE50-TKE. INTERNET CONTROL: Optional.

# Wall Mounted Professional Inverter -20°C
# • R410A GAS





## Complete line-up with high efficiency even at -20°C

This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

## Technical focus

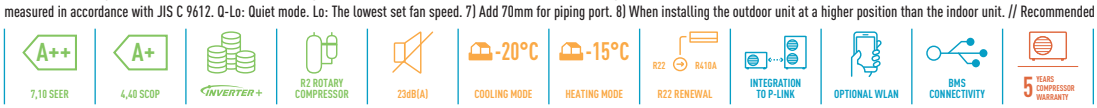
- These units can be installed on R22 pipings
- Designed for 24h/7d a week operation
- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing

| KIT | | | KIT-E9-PKEA | KIT-E12-PKEA | KIT-E15-PKEA | KIT-E18-PKEA |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 4,00) | 4,20 (0,98 - 5,00) | 5,00 (0,98 - 6,00) |
| EER [1] | Nominal (Min - Max) | W/W | 4,85 (4,23 - 5,00) | 4,02 (3,57 - 5,00) | 3,50 (3,50 - 3,16) | 3,47 (3,50 - 3,02) |
| Cooling capacity at -10°C | | kW | 2,63 | 3,69 | 5,04 | 6,00 |
| EER at -10°C | | W/W | 7,19 | 5,96 | 6,01 | 6,00 |
| Cooling capacity at -20°C | | kW | 2,61 | 3,66 | 4,06 | 5,82 |
| EER at -20°C | | W/W | 6,71 | 5,56 | 4,39 | 5,39 |
| **SEER [2]** | | | **7,10** A++ | **6,70** A++ | **6,30** A++ | **6,90** A++ |
| Pdesign | | kW | 2,50 | 3,50 | 4,20 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,52 (0,17 - 0,71) | 0,87 (0,17 - 1,12) | 1,20 (0,28 - 1,58) | 1,44 (0,28 - 1,99) |
| Annual energy consumption [3] | | kWh/a | 123 | 183 | 233 | 254 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 (0,85 - 5,40) | 4,00 (0,85 - 6,60) | 5,40 (0,98 - 7,10) | 5,80 (0,98 - 8,00) |
| Heating capacity at -7°C [4] | | kW | 3,33 | 4,07 | 4,10 | 4,98 |
| COP [1] | Nominal (Min - Max) | W/W | 4,86 (4,12 - 5,15) | 4,35 (3,63 - 5,15) | 3,75 (2,88 - 3,24) | 3,82 (2,88 - 3,11) |
| **SCOP [5]** | | | **4,40** A+ | **4,10** A+ | **3,90** A | **4,20** A+ |
| Pdesign at -10°C | | kW | 2,80 | 3,60 | 3,60 | 4,40 |
| Input power heating | Nominal (Min - Max) | kW | 0,70 (0,17 - 1,31) | 0,92 (0,17 - 1,82) | 1,44 (0,34 - 2,19) | 1,52 (0,34 - 2,57) |
| Annual energy consumption [3] | | kWh/a | 891 | 1229 | 1292 | 1467 |
| **Indoor unit** | | | **CS-E9PKEA** | **CS-E12PKEA** | **CS-E15PKEA** | **CS-E18PKEA** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air Volume | Cool / Heat | m³/min | 13,3 / 14,6 | 13,6 / 14,7 | 14,1 / 15,0 | 17,9 / 19,3 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,4 | 2,8 |
| Sound pressure [6] | Cool (Hi / Lo / Q-Lo) | dB(A) | 39 / 26 / 23 | 42 / 29 / 26 | 43 / 32 / 29 | 44 / 37 / 34 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 40 / 27 / 24 | 42 / 33 / 29 | 43 / 35 / 29 | 44 / 37 / 34 |
| Dimension / Net weight | H x W x D | mm / kg | 295 x 870 x 255 / 10 | 295 x 870 x 255 / 10 | 295 x 870 x 255 / 10 | 295 x 1070 x 255 / 13 |
| **Outdoor unit** | | | **CU-E9PKEA** | **CU-E12PKEA** | **CU-E15PKEA** | **CU-E18PKEA** |
| Sound pressure [6] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 48 / 50 | 46 / 46 | 47 / 47 |
| Dimension [7] | H x W x D | mm | 622 x 824 x 299 | 622 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 36 | 36 | 45 | 46 |
| Piping connections | Liquid pipe / Gas pipe | Inch (mm) | 1/4 (6,35) / 3/8 (9,52) | 1/4 (6,35) / 3/8 (9,52) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 |
| Elevation difference (in/out) [8] | | m | 5 | 5 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | — | — | — | — |
| Operating range | Cool / Heat Min ~ Max | °C | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PAW-GRDSTD40** | Outdoor elevation platform |

| Accessories | |
|---|---|
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-SERVER-PKEA** | PCB for installation in server rooms with security |

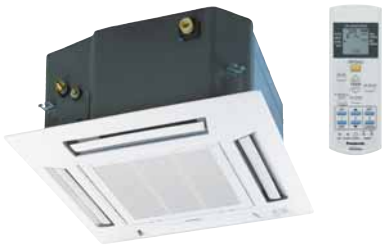
Rating Conditions for cooling capacity at low temperature: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 0°C DB / -10°C WB.
1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Energy Label Scale from A+++ to D. SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) Add 70mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.




SEER and SCOP: For KIT-E9-PKEA. SUPER QUIET: For KIT-E9-PKEA. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 4 Way 60x60 Cassette Standard Inverter
# • R410A GAS





**CZ-BT20EW**
RAL9010 panel for 4 Way 60x60 Cassette.



## Specially designed for offices, retail and restaurant applications, this Cassette fits perfectly into 60x60 or 70x70 ceiling grids

Compact Cassette with high efficiency even at low temperatures, this Cassette in 9 and 12kW versions can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. Interfaces have dry contacts (ON/OFF, error message) to enable easy integration.
With the wireless interfaces, you can also control the Cassette from your smartphone and internet very easily!
Fit Panasonic's Cassette Type, and start to save all year round!

## Technical focus

- Cassettes can be controlled by IntesisHome, KNX, EnOcean and Modbus
- These units can be installed on R22 pipings
- Designed for easy installation in the standard European 60x60 ceiling grid
- Operation down to -10°C in cooling and heating modes
- Piping length up to 30m
- Maximum elevation difference up to 20m
- Ultra compact outdoor units for easy installation
- High pressure selector in case of high ceilings (higher than 2,7m)
- Drain pump included (maximum 750mm high)
- Air fresh entry available on the Cassette

| KIT | | | KIT-E9-PB4EA | KIT-E12-PB4EA | KIT-E18-RB4EA | KIT-E21-RB4EA |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 4,00) | 5,00 (0,90 - 5,80) | 5,90 (0,90 - 6,30) |
| EER [1] | Nominal (Min - Max) | W/W | 4,55 (3,54 - 4,05) | 3,82 (3,54 - 3,33) | 3,13 (3,53 - 2,97) | 2,88 (3,53 - 2,86) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **5,80** A+ | **5,60** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,00 | 5,90 |
| Input power cooling | Nominal (Min - Max) | kW | 0,55 (0,24 - 0,74) | 0,89 (0,24 - 1,20) | 1,60 (0,26 - 1,95) | 2,05 (0,26 - 2,20) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 302 | 369 |
| Heating capacity | Nominal (Min - Max) | kW | 3,20 (0,85 - 4,80) | 4,50 (0,85 - 5,60) | 5,60 (0,90 - 7,10) | 7,00 (0,90 - 8,00) |
| Heating capacity at -7°C | | kW | 2,60 | 3,00 | — | — |
| COP [1] | Nominal (Min - Max) | W/W | 4,00 (3,70 - 3,56) | 3,17 (3,70 - 2,80) | 3,01 (3,46 - 2,92) | 2,86 (3,46 - 2,84) |
| **SCOP [2]** | | | **4,00** A+ | **3,80** A | **4,10** A+ | **4,10** A+ |
| Pdesign at -10°C | | kW | 2,70 | 3,00 | 3,80 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,80 (0,23 - 1,35) | 1,42 (0,23 - 2,00) | 1,86 (0,26 - 2,43) | 2,45 (0,26 - 2,82) |
| Annual energy consumption [3] | | kWh/a | 945 | 1105 | 1298 | 1366 |
| **Indoor unit** | | | **CS-E9PB4EA** | **CS-E12PB4EA** | **CS-E18RB4EAW** | **CS-E21RB4EAW** |
| **Panel** | | | **CZ-BT20EW** | **CZ-BT20EW** | **CZ-BT20EW** | **CZ-BT20EW** |
| Air volume | Cool / Heat | m³/min | 10,5 / 10,8 | 10,5 / 10,8 | 11,5 / 11,8 | 12,4 / 14,6 |
| Moisture removal volume | | L/h | 1,5 | 2,3 | 2,8 | 3,3 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 34 / 26 / 23 | 34 / 26 / 23 | 37 / 28 / 25 | 42 / 33 / 30 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 35 / 28 / 25 | 35 / 28 / 25 | 38 / 29 / 26 | 43 / 34 / 31 |
| Dimension (H x W x D) | Indoor | mm | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 |
| | Panel | mm | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 |
| Net weight | Indoor / Panel | kg | 18 / 2,5 | 18 / 2,5 | 18 / 2,5 | 18 / 2,5 |
| **Outdoor unit** | | | **CU-E9PB4EA** | **CU-E12PB4EA** | **CU-E18RBEA** | **CU-E21RBEA** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 45 / 46 | 45 / 47 | 47 / 48 | 49 / 50 |
| Dimension [5] | H x W x D | mm | 622 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 36 | 45 | 47 | 47 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 20 | 20 |
| Pipe length for additional gas | | m | 10 | 10 | 10 | 10 |
| Additional gas amount | | g/m | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | — | — | — | — |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PA-AC-WIFI-1** | Full bidirectional WLAN interface for Internet control |

| Accessories | |
|---|---|
| **PAW-IR-WIFI-1** | IR WLAN interface for Internet control |
| **CZ-RD52CP** | Wired remote controller for Cassette |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1,5m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-E18-RB4EA. SUPER QUIET: For KIT-E9-PB4EA and KIT-E12-PB4EA. INTERNET CONTROL: Optional.

# Low Static Pressure Hide Away Standard Inverter • R410A GAS



## Designed for homes, offices, retail and restaurants, this duct is ideal for small rooms where the air conditioning and the heating should be nicely integrated and where high comfort and efficiency is needed

The 9 and 12kW duct can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. This interfaces have dry contacts (ON/OFF, error message) for easy integration.
With the wireless interfaces, you can control the Duct also from your smartphone and internet very easily!

## Technical focus

- Duct type can be controlled by IntesisHome, KNX, EnOcean and Modbus
- These units can be installed on R22 pipings
- Eco mode for 20% energy saving
- Extremely compact indoor units without losing static pressure (only 235mm high)
- Weekly timer, 42 settings per week
- Easy check mode for failure detection
- Drain pump included (maximum 200mm)

| KIT | | | KIT-E9-PD3EA | KIT-E12-QD3EA | KIT-E18-RD3EA |
|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,40 (0,85 - 4,00) | 5,10 (0,90 - 5,70) |
| EER [1] | Nominal (Min - Max) | W/W | 4,24 (3,54 - 3,95) | 3,86 (3,54 - 3,45) | 3,19 (3,53 - 3,13) |
| **SEER [2]** | | | **5,80** A+ | **5,60** A+ | **5,80** A+ |
| Pdesign (cooling) | | kW | 2,50 | 3,40 | 5,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,59 (0,24 - 0,76) | 0,88 (0,24 - 1,16) | 1,60 (0,26 - 1,82) |
| Annual energy consumption [3] | | kWh/a | 151 | 213 | 308 |
| Heating capacity | Nominal (Min - Max) | kW | 3,20 (0,85 - 4,60) | 4,00 (0,85 - 5,10) | 6,10 (0,90 - 7,10) |
| Heating capacity at -7°C | | kW | 2,60 | 3,00 | 4,30 |
| COP [1] | Nominal (Min - Max) | W/W | 3,72 (3,70 - 3,33) | 3,54 (3,70 - 3,29) | 3,33 (3,46 - 3,26) |
| **SCOP [2]** | | | **4,20** A+ | **3,80** A | **3,90** A |
| Pdesign at -10°C | | kW | 2,60 | 2,90 | 4,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,86 (0,23 - 1,38) | 1,13 (0,23 - 1,55) | 1,83 (0,26 - 2,18) |
| Annual energy consumption [3] | | kWh/a | 867 | 1068 | 1436 |
| **Indoor unit** | | | **CS-E9PD3EA** | **CS-E12QD3EAW** | **CS-E18RD3EAW** |
| External static pressure [4] | S-Hi / Hi / Me / Lo | Pa | N/A | N/A | N/A |
| Air volume | Cool / Heat | m³/min | 6,9 / 8,1 | 9,3 / 10,4 | 15,3 / 15,3 |
| Moisture removal volume | | L/h | 1,50 | 2,30 | 2,80 |
| Sound pressure [5] | Cool (Hi / Lo / Q-Lo) | dB(A) | 33 / 27 / 24 | 34 / 27 / 24 | 41 / 30 / 27 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 35 / 28 / 25 | 36 / 28 / 25 | 41 / 32 / 29 |
| Dimension | H x W x D | mm | 235 x 750 x 370 | 235 x 750 x 370 | 200 x 750 x 640 |
| Net weight | | kg | 17 | 17 | 19 |
| **Outdoor unit** | | | **CU-E9PD3EA** | **CU-E12QD3EA** | **CU-E18RBEA** |
| Power source | | V | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 | 4 x 1,5 ~ 2,5 |
| Sound pressure [5] | Cool / Heat (Hi) | dB(A) | 47 / 47 | 47 / 48 | 47 / 48 |
| Dimension [6] | H x W x D | mm | 622 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 36 | 45 | 47 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 |
| Elevation difference (in/out) [7] | | m | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | — | — | — |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |

| Accessories | |
|---|---|
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The specification listed on the table indicates values under the condition of 29Pa (3,0mmAq) which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0mmAq. 5) The sound pressure of the indoor unit shows the value measured of a position of 1,5m below the unit with 1m duct on the suction side and 2m duct on the discharge side. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. 6) Add 100mm for indoor unit or 70mm for outdoor unit for piping port. 7) When installing the outdoor unit at a higher position than the indoor unit.




SEER and SCOP: For KIT-E9-PD3EA. FILTER INCLUDED: For CS-E18RD3EAW. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



INVERTER+ | R2 ROTARY COMPRESSOR | -15°C HEATING MODE | R22 → R410A R22 RENEWAL | 5 YEARS COMPRESSOR WARRANTY

## Outdoor unit Free Multi System E • R410A Gas

| Indoor nominal capacity (Min - Max) | | | 3,20 ~ 5,70kW | 3,20 ~ 5,70kW | 3,20 ~ 7,50kW | 4,50 ~ 9,00kW | 4,50 ~ 11,00kW | 4,50 ~ 11,00kW | 4,50 ~ 13,60kW | 4,50 ~ 17,50kW |
|---|---|---|---|---|---|---|---|---|---|---|
| **Unit** | | | **CU-2E12SBE** | **CU-2E15SBE** | **CU-2E18SBE** | **CU-3E18PBE** | **CU-3E23SBE** | **CU-4E23PBE** | **CU-4E27PBE** | **CU-5E34PBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,50) | 4,50 (1,50 - 5,20) | 5,20 (1,50 - 5,40) | 5,20 (1,80 - 7,30) | 6,80 (1,90 - 8,00) | 6,80 (1,90 - 8,00) | 8,00 (3,00 - 9,20) | 10,00 (2,90 - 11,50) |
| EER [1] | | W/W | 4,50 (6,00 - 4,09) | 3,66 (6,00 - 3,42) | 3,42 (6,00 - 3,42) | 4,33 (5,00 - 3,24) | 3,56 (7,04 - 3,38) | 4,05 (5,59 - 3,56) | 4,04 (5,66 - 3,21) | 3,50 (5,27 - 2,98) |
| **SEER [2]** | | | **6,50** A++ | **6,50** A++ | **6,50** A++ | **7,00** A++ | **7,00** A++ | **7,00** A++ | **7,00** A++ | **6,50** A++ |
| Pdesign (cooling) | | kW | 3,60 | 4,50 | 5,20 | 5,20 | 6,80 | 6,80 | 8,00 | 10,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,80 (0,25 - 1,10) | 1,23 (0,25 - 1,52) | 1,52 (0,25 - 1,58) | 1,27 (0,36 - 2,25) | 1,91 (0,27 - 2,37) | 1,68 (0,34 - 2,47) | 1,98 (0,53 - 2,87) | 2,86 (0,55 - 3,86) |
| Annual energy consumption [3] | | kWh/a | 194 | 242 | 280 | 260 | 955 | 340 | 400 | 538 |
| Heating capacity | Nominal (Min - Max) | kW | 4,40 (1,10 - 5,60) | 5,40 (1,10 - 7,00) | 5,60 (1,10 - 7,20) | 6,80 (1,60 - 8,30) | 8,50 (3,30 - 10,40) | 8,50 (3,00 - 10,40) | 9,40 (4,20 - 10,60) | 12,00 (3,40 - 14,50) |
| Heating capacity at -7°C | | kW | 3,54 | 3,54 | 3,65 | 4,90 | 6,05 | 6,05 | 7,08 | 8,85 |
| COP [1] | | W/W | 4,63 (5,24 - 4,41) | 4,62 (5,24 - 4,19) | 4,63 (5,24 - 4,24) | 4,69 (3,93 - 5,00) | 4,07 (5,32 - 3,74) | 4,47 (4,08 - 5,17) | 4,52 (6,00 - 3,46) | 4,20 (6,42 - 3,42) |
| **SCOP [2]** | | | **4,00** A+ | **4,00** A+ | **4,00** A+ | **4,00** A+ | **4,00** A+ | **4,00** A+ | **4,00** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 4,00 | 4,00 | 4,20 | 4,80 | 5,20 | 5,50 | 8,00 | 10,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,95 (0,21 - 1,27) | 1,17 (0,21 - 1,67) | 1,21 (0,21 - 1,70) | 1,41 (0,32 - 2,18) | 2,09 (0,62 - 2,78) | 1,85 (0,58 - 2,60) | 2,08 (0,70 - 3,06) | 2,86 (0,53 - 4,24) |
| Annual energy consumption [3] | | kWh/a | 1400 | 1400 | 1470 | 1680 | 1820 | 1925 | 2800 | 3500 |
| Current | Cool / Heat | A | 3,75 / 4,20 | 5,75 / 5,20 | 7,10 / 5,35 | 5,30 / 6,70 | 8,40 / 9,60 | 7,50 / 8,80 | 9,40 / 9,80 | 13,20 / 13,40 |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 16 | 20 | 20 | 25 |
| Recommended power cable section | | mm² | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 3,5 |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 47 / 49 | 47 / 49 | 49 / 51 | 46 / 47 | 50 / 51 | 50 / 51 | 51 / 52 | 53 / 54 |
| Dimension [5] | H x W x D | mm | 619 x 824 x 299 | 619 x 824 x 299 | 619 x 824 x 229 | 795 x 875 x 320 | 795 x 875 x 320 | 795 x 875 x 320 | 999 x 940 x 340 | 999 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 39 | 71 | 71 | 72 | 80 | 81 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| Pipe length range total [6] | | m | 6 ~ 30 | 6 ~ 30 | 6 ~ 30 | 6 ~ 50 | 6 ~ 60 | 6 ~ 60 | 6 ~ 80 | 6 ~ 80 |
| Pipe length range to one unit | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 20 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 | 3 ~ 25 |
| Elevation difference (in/out) | | m | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 |
| Pipe length for additional gas | | m | 20 | 20 | 20 | 30 | 30 | 30 | 45 | 45 |
| Additional gas amount | | g/m | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40 / 2,9232 | 1,40 / 2,9232 | 1,40 / 2,9232 | 2,64 / 5,5123 | 2,64 / 5,5123 | 2,64 / 5,5123 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1m in front and 1m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95mm for piping port. 6) Minimum piping length is 3 meters per indoor unit.

## Possible outdoor / indoor units combinations • R410A Gas

| Rooms | Model | Indoor capacity connected (Min - Max) | NEW Etherea Silver | | | | | | | | NEW Etherea Pure White Matt | | | | | | | | Wall Mounted TZ / TE Compact Style | | | | | | | | Floor Console | | | | | | | | 4 Way 60x60 Cassette | | | | | | | | Low Static Pressure Hide Away | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 16 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| 2 | CU-2E12SBE | 3,20 ~ 5,70kW | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | |
| | CU-2E15SBE | 3,20 ~ 5,70kW | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | ✔ | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | | ✔ | ✔ | ✔ | | | | | |
| | CU-2E18SBE | 3,20 ~ 7,50kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | | | |
| 3 | CU-3E18PBE | 4,50 ~ 9,00kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | | | |
| | CU-3E23SBE | 4,50 ~ 11,00kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | |
| 4 | CU-4E23PBE | 4,50 ~ 11,00kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | |
| | CU-4E27PBE | 4,50 ~ 13,60kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | ✔[1] | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | |
| 5 | CU-5E34PBE | 4,50 ~ 17,50kW | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | ✔ | ✔[1] | | ✔[1] | ✔[1] | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔[1] | ✔ | ✔ | ✔ | | ✔[1] | | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | | ✔ | ✔ | ✔ | | ✔[1] | ✔[1] | | |

1) A CZ-MA1P pipe reducer is needed on the 42 and 50, a CZ-MA2P pipe expander is needed on the 60 and CZ-MA3P pipe reducer on the 71. Minimum quantity of connection: 2 indoor units.

## Outdoor Multi combination model

| | Model |
|---|---|
| CS-MZ16VKE / CS-MTZ16TKE<br>CS-XZ20VKEW / CS-Z20VKEW / CS-TZ20TKEW-1 / CS-TE20TKEW / CS-MZ20UFEA / CS-MZ20UB4EA / CS-MZ20UD3EA<br>CS-XZ25VKEW / CS-Z25VKEW / CS-TZ25TKEW-1 / CS-TE25TKEW / CS-Z25UFEAW / CS-Z25UB4EAW / CS-Z25UD3EAW<br>CS-XZ35VKEW / CS-Z35VKEW / CS-TZ35TKEW-1 / CS-TE35TKEW / CS-Z35UFEAW / CS-Z35UB4EAW / CS-Z35UD3EAW | CU-2E12SBE / CU-2E15SBE / CU-2E18SBE / CU-3E18PBE / CU-3E23SBE / CU-4E23PBE / CU-4E27PBE / CU-5E34PBE | — |
| CS-Z42VKEW / CS-TZ42TKEW-1 / CS-TE42TKEW<br>CS-XZ50VKEW / CS-Z50VKEW / CS-TZ50TKEW / CS-TE50TKEW / CS-Z50UFEAW / CS-Z50UD3EAW / CS-Z50UB4EAW | CU-2E18SBE / CU-3E18PBE / CU-3E23SBE / CU-4E23PBE / CU-4E27PBE / CU-5E34PBE | CZ-MA1P |
| CS-TZ60TKEW / CS-TE60TKEW / CS-Z60UB4EAW / CS-Z60UD3EAW | CU-3E23SBE / CU-4E23PBE / CU-4E27PBE / CU-5E34PBE | CZ-MA2P |
| CS-Z71VKEW / CS-TZ71TKEW | CU-4E27PBE / CU-5E34PBE | CZ-MA2P / CZ-MA3P* |

* For CZ-MA3P necessary to use adaptor CZ-MA2P too.



CZ-MA1P is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".
CZ-MA2P is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".
CZ-MA3P is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".





NEW 2019



**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Built-in.

nanoe X | 21dB(A) | AEROWINGS | BUILT-IN WLAN | BMS CONNECTIVITY

| NEW Wall Mounted Etherea | Indoor unit Silver | Indoor unit Pure White Matt | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | — | CS-MZ16VKE | 1,60 | 2,60 | 4 x 1,5 | 38/26/21 — 39/27/21 | 295 x 919 x 194/9 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-XZ20VKEW | CS-Z20VKEW | 2,00 | 3,20 | 4 x 1,5 | 39/26/21 — 40/27/21 | 295 x 919 x 194/9 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-XZ25VKEW | CS-Z25VKEW | 2,50 | 3,60 | 4 x 1,5 | 41/27/21 — 43/29/21 | 295 x 919 x 194/10 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW | CS-XZ35VKEW | CS-Z35VKEW | 3,20 | 4,50 | 4 x 1,5 | 44/30/21 — 45/35/21 | 295 x 919 x 194/10 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | — | CS-Z42VKEW | 4,00 | 5,60 | 4 x 1,5 | 44/33/27 — 45/37/31 | 295 x 919 x 194/10 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-XZ50VKEW | CS-Z50VKEW | 5,00 | 6,80 | 4 x 1,5 | 44/39/32 — 46/39/32 | 302 x 1120 x 236/12 | 1/4 (6,35) / 1/2 (12,70) |
| 7,10kW | — | CS-Z71VKEW | 7,10 | 8,60 | — | 49/40/32 — 49/40/32 | 302 x 1120 x 236/13 | 1/4 (6,35) / 5/8 (15,88) |





**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Optional.

PM2,5 FILTER | 20dB(A) | AEROWINGS | OPTIONAL WLAN | BMS CONNECTIVITY

| Compact Style | Indoor unit TZ | Indoor unit TE | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | CS-MTZ16TKE | — | 1,60 | 2,60 | 4 x 1,5 | — | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-TZ20TKEW-1 | CS-TE20TKEW | 2,00 | 3,20 | 4 x 1,5 | 37/25/20 — 38/26/22 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-TZ25TKEW-1 | CS-TE25TKEW | 2,50 | 3,60 | 4 x 1,5 | 40/26/20 — 40/27/22 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-TZ35TKEW-1 | CS-TE35TKEW | 3,20 | 4,50 | 4 x 1,5 | 42/30/20 — 42/33/22 | 290 x 799 x 197/8 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | CS-TZ42TKEW-1 | CS-TE42TKEW | 4,00 | 5,00 | 4 x 1,5 | 44/31/29 — 44/35/28 | 290 x 799 x 197/8 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-TZ50TKEW | CS-TE50TKEW | 5,00 | 5,30 | 4 x 1,5 | 44/37/34 — 44/37/34 | 302 x 1102 x 244/12 | 1/4 (6,35) / 1/2 (12,70) |
| 6,00kW | CS-TZ60TKEW | CS-TE60TKEW | 6,00 | 8,50 | 4 x 1,5 | 45/37/34 — 45/37/34 | 302 x 1102 x 244/12 | 1/4 (6,35) / 5/8 (15,88) |
| 7,10kW | CS-TZ71TKEW | — | 7,00 | 8,70 | — | 47/38/35 — 47/38/35 | 302 x 1102 x 244/13 | 1/4 (6,35) / 5/8(15,88) |





**CZ-RD514C**
Optional wired remote controller.

INTERNET CONTROL: Optional.

nanoe X | 22dB(A) | OPTIONAL WLAN | BMS CONNECTIVITY

| Floor Console | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [3] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UFEA | 2,00 | 3,20 | 4 x 1,5 | 39/27/22 — 39/27/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UFEAW | 2,50 | 3,60 | 4 x 1,5 | 40/27/22 — 40/27/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UFEAW | 3,50 | 4,50 | 4 x 1,5 | 41/28/22 — 41/28/21 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW | CS-Z50UFEAW | 5,00 | 5,30 | 4 x 1,5 | 44/33/29 — 48/35/31 | 600 x 750 x 207/13 | 1/4 (6,35) / 3/8 (9,52) |





**CZ-BT20EW**
RAL9010 panel for 4 Way 60x60 Cassette (sold separately).



**CZ-RD52CP**
Optional wired remote controller.

INTERNET CONTROL READY and EASY CONTROL BY BMS: Optional.

OPTIONAL WLAN | BMS CONNECTIVITY

| 4 Way 60x60 Cassette | Indoor unit (Panel CZ-BT20EW) | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [4] | Dimension / Net weight | | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | Indoor H x W x D | Panel H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UB4EA | 2,00 | 3,20 | 4 x 1,5 | 35/27/24 — 36/30/27 | 260x575x575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UB4EAW | 2,50 | 3,60 | 4 x 1,5 | 36/27/24 — 37/30/27 | 260x575x575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UB4EAW | 3,50 | 4,50 | 4 x 1,5 | 36/28/25 — 37/30/27 | 260x575x575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW | CS-Z50UB4EAW | 5,00 | 6,80 | 4 x 1,5 | 39/30/27 — 40/31/28 | 260x575x575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 3/8 (9,52) |
| 6,00kW | CS-Z60UB4EAW | 6,00 | 8,50 | 4 x 1,5 | 44/34/31 — 45/34/31 | 260x575x575/18 | 51 x 700 x 700/2,5 | 1/4 (6,35) / 1/2 (12,70) |





**CZ-RL511D**
NEW optional wireless kit.

INTERNET CONTROL READY and EASY CONTROL BY BMS: Optional.

FILTER INCLUDED | OPTIONAL WLAN | BMS CONNECTIVITY

| Low Static Pressure Hide Away | Indoor unit | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [5] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|
| | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 2,00kW | CS-MZ20UD3EA | 2,00 | 3,20 | 4 x 1,5 | 34/29/26 — 36/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-Z25UD3EAW | 2,50 | 3,60 | 4 x 1,5 | 35/29/26 — 37/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-Z35UD3EAW | 3,50 | 4,50 | 4 x 1,5 | 35/29/26 — 37/29/26 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 5,00kW | CS-Z50UD3EAW | 5,00 | 6,80 | 4 x 1,5 | 41/31/28 — 41/32/29 | 200 x 750 x 640/19 | 1/4 (6,35) / 3/8 (9,52) |
| 6,00kW | CS-Z60UD3EAW | 6,00 | 8,50 | 4 x 1,5 | 43/32/29 — 43/34/31 | 200 x 750 x 640/19 | 1/4 (6,35) / 1/2 (12,70) |

1) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 2) The heating capacity is 4,40kW connected to a CU-2E12SBE. 3) The sound pressure of the units shows the value measured of a position 1m in front of the main body and 1m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 4) The sound pressure of the indoor unit shows the value measured of a position 1,5m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) The sound pressure of the indoor unit shows the value measured of a position of 1,5m below the unit with 1m duct on the suction side and 2m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



## Outdoor unit Multi Wall TZ/TE • R410A Gas

| Indoor nominal capacity (Min - Max) | | | 4,00 ~ 5,70kW | 4,00 ~ 7,50kW | 4,80 ~ 9,00kW |
|---|---|---|---|---|---|
| **Unit** | | | **CU-2RE15SBE** | **CU-2RE18SBE** | **CU-3RE18SBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 4,40 (1,50 - 4,80) | 4,80 (1,50 - 5,00) | 5,20 (1,80 - 7,30) |
| **SEER** [1] | | | **6,50** A+++ | **6,50** A+++ | **7,00** A+++ |
| Pdesign (cooling) | | kW | 4,40 | 4,80 | 5,20 |
| Annual energy consumption [2] | | kWh/a | 237 | 258 | 260 |
| Heating capacity | Nominal (Min - Max) | kW | 4,80 (1,10 - 6,50) | 5,20 (1,10 - 6,70) | 6,80 (1,60 - 8,30) |
| **SCOP** [1] | | | **4,00** A+ | **4,00** A+ | **4,00** A+ |
| Pdesign at -10°C | | kW | 3,60 | 3,80 | 4,80 |
| Annual energy consumption [2] | | kWh/a | 1260 | 1330 | 1680 |
| Sound pressure [3] | Cool (Hi) | dB(A) | 47 | 49 | 46 |
| | Heat (Hi) | dB(A) | 49 | 51 | 47 |
| Dimension [4] | H x W x D | mm | 619 x 824 x 299 | 619 x 824 x 299 | 795 x 875 x 320 |
| Net weight | | kg | 39 | 39 | 71 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| Pipe length range total | | m | 6 ~ 30 | 6 ~ 30 | 6 ~ 50 |
| Pipe length range to one unit | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 25 |
| Elevation difference (in/out) | | m | 10 | 10 | 15 |
| Pipe length for additional gas | | m | 20 | 20 | 30 |
| Additional gas amount | | g/m | 15 | 15 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40 / 2,9232 | 1,40 / 2,9232 | 2,64 / 5,5123 |
| Operating range | Cool Min ~ Max | °C | +16 ~ +43 | +16 ~ +43 | +16 ~ +43 |
| | Heat Min ~ Max | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

1) Energy Label Scale from A+++ to D. 2) The annual energy consumption is calculated in accordance to EU/626/2011. 3) The sound pressure of the units shows the value measured of a position 1m in front and 1m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 4) Add 70 or 95mm for piping port.

## Possible outdoor / indoor units combinations • R410A Gas

| Rooms | Model | Indoor capacity connected (Min - Max) | Wall Mounted TZ Compact Style | | | | | | Wall Mounted TE Compact Style | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | 20 | 25 | 35 | 42 | 50 | 16 | 20 | 25 | 35 | 42 | 50 |
| 2 | **CU-2RE15SBE** | **4,00 ~ 5,70kW** | ✔ | ✔ | ✔ | ✔ | | | | ✔ | ✔ | ✔ | | |
| | **CU-2RE18SBE** | **4,00 ~ 7,50kW** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ |
| 3 | **CU-3RE18SBE** | **4,80 ~ 9,00kW** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ |

Minimum quantity of connection: 2 indoor units.





INTERNET CONTROL: Optional.

| Compact Style | Indoor unit TZ | Indoor unit TE | Cooling capacity | Heating capacity | Connection in. / out. | Sound pressure [1] | Dimension / Net weight | Piping connections |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Cool — Heat (Hi/Lo/S-Lo) | H x W x D | Liquid / Gas pipe |
| | | | kW | kW | mm² | dB(A) | mm / kg | Inch (mm) |
| 1,60kW | CS-MTZ16TKE | — | 1,60 | 2,60 | 4 x 1,5 | — | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,00kW | CS-TZ20TKEW-1 | CS-TE20TKEW | 2,00 | 3,20 | 4 x 1,5 | 37 / 25 / 20 — 38 / 26 / 22 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 2,50kW | CS-TZ25TKEW-1 | CS-TE25TKEW | 2,50 | 3,60 | 4 x 1,5 | 40 / 26 / 20 — 40 / 27 / 22 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 3,50kW [2] | CS-TZ35TKEW-1 | CS-TE35TKEW | 3,20 | 4,50 | 4 x 1,5 | 42 / 30 / 20 — 42 / 33 / 22 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 3/8 (9,52) |
| 4,20kW | CS-TZ42TKEW-1 | CS-TE42TKEW | 4,00 | 5,00 | 4 x 1,5 | 44 / 31 / 29 — 44 / 35 / 28 | 290 x 799 x 197 / 8 | 1/4 (6,35) / 1/2 (12,70) |
| 5,00kW | CS-TZ50TKEW | CS-TE50TKEW | 5,00 | 5,30 | 4 x 1,5 | 44 / 37 / 34 — 44 / 37 / 34 | 302 x 1102 x 244 / 12 | 1/4 (6,35) / 1/2 (12,70) |

1) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed.



NEW 2019

INTERNET CONTROL: Buit-in.

## NEW Etherea Multi Split Inverter+ • R410A Gas

| | | | Day and Night | | | | |
|---|---|---|---|---|---|---|---|
| **Rooms** | | | **2 Rooms** | | | **3 Rooms** | |
| **Kit Silver** | | | **KIT-2XE2525-SBE** | **KIT-2XE2035-SBE** | **KIT-2XE2535-SBE** | **KIT-3XE202035-PBE** | **KIT-3XE252535-PBE** |
| **Indoor unit Silver** | | | **CS-XZ25VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW**<br>**CS-XZ25VKEW** |
| **Kit Pure White Matt** | | | **KIT-2E2525-SBE** | **KIT-2E2035-SBE** | **KIT-2E2535-SBE** | **KIT-3E202035-PBE** | **KIT-3E252535-PBE** |
| **Indoor unit Pure White Matt** | | | **CS-Z25VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW**<br>**CS-Z25VKEW** |
| **Outdoor unit** | | | **CU-2E15SBE** | **CU-2E15SBE** | **CU-2E15SBE** | **CU-3E18PBE** | **CU-3E18PBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 4,50 (1,50 - 5,20) | 4,50 (1,50 - 5,20) | 4,50 (1,50 - 5,20) | 5,20 (1,90 - 7,20) | 5,20 (1,90 - 7,20) |
| EER | | W/W | 3,66 | 3,66 | 3,66 | 3,80 | 4,23 |
| Heating capacity | Nominal (Min - Max) | kW | 5,40 (1,10 - 7,00) | 5,40 (1,10 - 7,00) | 5,40 (1,10 - 7,00) | 6,80 (1,60 - 8,30) | 6,80 (1,60 - 8,30) |
| COP | | W/W | 4,62 | 4,62 | 4,62 | 4,36 | 4,17 |
| Indoor dimension | (H x W x D) | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 |
| Indoor net weight | | kg | 10 | 10 (9 for Z20) | 10 | 10 (9 for Z20) | 10 |
| **Kit Silver Price** | | **€** | | | | | |
| **Kit Pure White Matt Price** | | **€** | | | | | |

| | | | Simultaneous | | | | |
|---|---|---|---|---|---|---|---|
| **Rooms** | | | **2 Rooms** | | | **3 Rooms** | |
| **Kit Silver** | | | **KIT-2XE2525-SKE** | **KIT-2XE2035-SKE** | **KIT-2XE2535-SKE** | **KIT-3XE202035-SKE** | **KIT-3XE252535-SKE** |
| **Indoor unit Silver** | | | **CS-XZ25VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW** | **CS-XZ35VKEW**<br>**CS-XZ20VKEW**<br>**CS-XZ20VKEW** | **CS-XZ35VKEW**<br>**CS-XZ25VKEW**<br>**CS-XZ25VKEW** |
| **Kit Pure White Matt** | | | **KIT-2E2525-SKE** | **KIT-2E2035-SKE** | **KIT-2E2535-SKE** | **KIT-3E202035-SKE** | **KIT-3E252535-SKE** |
| **Indoor unit Pure White Matt** | | | **CS-Z25VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW** | **CS-Z35VKEW**<br>**CS-Z20VKEW**<br>**CS-Z20VKEW** | **CS-Z35VKEW**<br>**CS-Z25VKEW**<br>**CS-Z25VKEW** |
| **Outdoor unit** | | | **CU-2E18SBE** | **CU-2E18SBE** | **CU-2E18SBE** | **CU-3E23SBE** | **CU-3E23SBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 5,00 (1,50 - 5,20) | 5,20 (1,50 - 5,40) | 5,20 (1,50 - 5,40) | 6,80 (1,90 - 8,00) | 6,80 (1,90 - 8,00) |
| EER | | W/W | 3,47 | 3,42 | 3,42 | 3,56 | 3,56 |
| Heating capacity | Nominal (Min - Max) | kW | 5,60 (1,10 - 7,20) | 5,60 (1,10 - 7,20) | 5,60 (1,10 - 7,20) | 8,50 (3,30 - 10,40) | 8,50 (3,30 - 10,40) |
| COP | | W/W | 4,63 | 4,63 | 4,63 | 4,09 | 4,09 |
| Indoor dimension | (H x W x D) | mm | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 | 295 x 919 x 194 |
| Indoor net weight | | kg | 10 | 10 (9 for Z20) | 10 | 10 (9 for Z20) | 10 |



INTERNET CONTROL: Optional.

## Multi Split TZ Compact Style • R410A Gas

| | | | Day and Night | | | | | Simultaneous | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rooms** | | | **2 Rooms** | | | **3 Rooms** | | **2 Rooms** | | |
| **Kit** | | | **KIT-2RE2525-SBE** | **KIT-2RE2035-SBE** | **KIT-2RE2535-SBE** | **KIT-3RE202035-PBE** | **KIT-3RE252535-PBE** | **KIT-2RE2525-SKE** | **KIT-2RE2035-SKE** | **KIT-2RE2535-SKE** |
| **Indoor unit** | | | **CS-TZ25TKEW-1**<br>**CS-TZ25TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ20TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ25TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ20TKEW-1**<br>**CS-TZ20TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ25TKEW-1**<br>**CS-TZ25TKEW-1** | **CS-TZ25TKEW-1**<br>**CS-TZ25TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ20TKEW-1** | **CS-TZ35TKEW-1**<br>**CS-TZ25TKEW-1** |
| **Outdoor unit** | | | **CU-2RE15SBE** | **CU-2RE15SBE** | **CU-2RE15SBE** | **CU-3RE18SBE** | **CU-3RE18SBE** | **CU-2RE18SBE** | **CU-2RE18SBE** | **CU-2RE18SBE** |
| Cooling capacity | Nominal (Min - Max) | kW | 4,40 (1,50 - 4,80) | 4,40 (1,50 - 4,80) | 4,40 (1,50 - 4,80) | 5,20 (1,90 - 7,20) | 5,20 (1,90 - 7,20) | 4,80 (1,50 - 5,00) | 4,80 (1,50 - 4,90) | 4,80 (1,50 - 5,00) |
| EER | | W/W | 3,38 | 3,38 | 3,38 | 3,80 | 3,80 | 3,22 | 3,22 | 3,22 |
| Heating capacity | Nominal (Min - Max) | kW | 4,80 (1,10 - 6,50) | 4,80 (1,10 - 6,50) | 4,80 (1,10 - 6,50) | 6,80 (1,60 - 8,30) | 6,80 (1,60 - 8,30) | 5,20 (1,10 - 6,70) | 5,20 (1,10 - 6,70) | 5,20 (1,10 - 6,70) |
| COP | | W/W | 4,00 | 4,00 | 4,00 | 4,17 | 4,17 | 4,00 | 4,00 | 4,00 |
| Indoor dimension | H x W x D | mm | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 | 290 x 799 x 197 |
| Indoor net weight | | kg | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# FEATURE COMPARISON

| | MODELS | WALL MOUNTED HEATCHARGE VZ • R32 GAS | WALL MOUNTED ETHEREA • R32 GAS | WALL MOUNTED TZ COMPACT STYLE • R32 GAS | WALL MOUNTED RZ COMPACT STYLE • R32 GAS | WALL MOUNTED FZ • R32 GAS | WALL MOUNTED UZ • R32 GAS | WALL MOUNTED PZ • R32 GAS | WALL MOUNTED DZ • R32 GAS | WALL MOUNTED PROFESSIONAL -20°C • R32 GAS |
|---|---|---|---|---|---|---|---|---|---|---|
| R32 | Refrigerant R32 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 38% ECONAVI | Econavi. Sunlight Sensor | ✔ | | | | | | | | |
| | Inverter+ system | ✔ | ✔ | | | | | | | |
| | Inverter system | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | R2 Rotary Compressor | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| nanoe X | nanoe™ X | ✔ nanoe™ | ✔ | | | | | | | |
| PM2.5 FILTER | PM2,5 Filter | | | ✔ | | ✔ | | | | |
| DUST COLLECTION FILTER | Dust collection filter | | | | ✔ | | ✔ | | | |
| | Antiallergy properties | ✔ | ✔ | | | | | | | |
| 19dB(A) | Super Quiet[1] | ✔ | ✔ 19dB(A) for XZ/Z20, XZ/Z25 and XZ/Z35 | ✔ 20dB(A) for TZ20, TZ25 and TZ35 | ✔ 20dB(A) for RZ20, RZ25 and RZ35 | ✔ 20dB(A) for FZ25 and FZ35 | ✔ 20dB(A) for UZ25 and UZ35 | ✔ 20dB(A) for PZ25 and PZ35 | ✔ 20dB(A) for DZ25 and DZ35 | ✔ 21dB(A) for Z25 and Z35 |
| HUMIDITY CONTROL MILD DRY | Mild Dry Cooling | | ✔ | | | | | | | |
| AEROWINGS | Aerowings | | ✔ | ✔ | ✔ | | | | | ✔ |
| -10°C COOLING MODE | Down to -10°C in cooling only | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ -20°C |
| -15°C HEATING MODE | Down to -15°C in heating mode | ✔ -35°C[2] | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| SUMMER HOUSE | Summer House | ✔ | | | | | | | | |
| R22 R410A R22 RENEWAL | R22 renewal | | | | | | | | | |
| R22 R410A R22 | R410A/R22 Renewal | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Odour-removing function | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Removable, washable panel | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Powerful mode | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Soft dry operation mode | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Personal airflow creation | ✔ | ✔ | ✔ For TZ50, TZ60 and TZ71 | ✔ For RZ50, RZ60 and RZ71 | | | | | |
| | Automatic vertical airflow control | | | ✔ For TZ20, TZ25, TZ35 and TZ42 | ✔ For RZ20, RZ25, RZ35 and RZ42 | ✔ | ✔ | ✔ | ✔ | |
| | Manual horizontal airflow control | | | ✔ For TZ20, TZ25, TZ35 and TZ42 | ✔ For RZ20, RZ25, RZ35 and RZ42 | ✔ | ✔ | ✔ | ✔ | |
| | Auto mode | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Hot start mode | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 24 DUAL | Real time clock with dual ON&OFF timer | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | |
| 7 | Weekly timer | | | | | | | | | ✔ |
| | LCD infrared remote controller | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | |
| | Automatic restart | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Long piping | ✔ 15m | ✔ 15m, 30m (XZ/Z50, XZ/Z71) | ✔ 15m, 20m (TZ50), 30m (TZ71 and TZ60) | ✔ 15m, 20m (RZ50), 30m (RZ71 and RZ60) | ✔ 15m, 20m (FZ60) | ✔ 15m | ✔ 15m | ✔ 15m | ✔ 15m, 20m (Z50) |
| | Top-Panel maintenance access | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | Self-diagnosis function | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| INTEGRATION TO P-LINK | CZ-CAPRA1: RAC interface adapter for integration into P-Link | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| OPTIONAL WLAN | Internet Control | ✔ | ✔ Built-in | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| BMS CONNECTIVITY | Easy control by BMS | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 5 YEARS COMPRESSOR WARRANTY | Warranty on the compressor | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ |

1) At the lowest fan speed. 2) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

| FLOOR CONSOLE • R32 GAS | 4 WAY 60x60 CASSETTE • R32 GAS | LOW STATIC PRESSURE HIDE AWAY • R32 GAS | WALL MOUNTED ETHEREA • R410A GAS | WALL MOUNTED TE COMPACT STYLE • R410A GAS | WALL MOUNTED FE • R410A GAS | WALL MOUNTED BE • R410A GAS | WALL MOUNTED DE • R410A GAS | WALL MOUNTED PROFESSIONAL -20°C • R410A GAS | 4-WAY 60x60 CASSETTE • R410A GAS | LOW STATIC PRESSURE HIDE AWAY • R410A GAS |
|---|---|---|---|---|---|---|---|---|---|---|
| ✔ | ✔ | ✔ | | | | | | | | |
| | | | ✔ | | | | | | | |
| ✔ | | | ✔ | | | | | | | |
| | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | | | ✔ nanoe™ | | | | | | | |
| | | | | ✔ | ✔ | | | | | |
| | | | | | | | | | | |
| ✔ | | | ✔ | | | | | | | |
| ✔ 20dB(A) for Z25 and Z35 | ✔ 22dB(A) for Z25 | | ✔ 19dB(A) for XE/E7, XE/E9 and XE/E12 | ✔ 20dB(A) for TE20, TE25 and TE35 | ✔ 20dB(A) for FE25 and FE35 | ✔ 20dB(A) for BE25 and BE35 | ✔ 20dB(A) for DE25 and DE35 | ✔ 23dB(A) for E9 | ✔ 23dB(A) for E9 and E12 | |
| | | | ✔ | | | | | | | |
| | | | ✔ | ✔ | | | | | | |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | ✔ -20°C | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ -10°C | ✔ -10°C |
| | | | | | | | | | | |
| | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | | | | | | | | |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| | | | ✔ | ✔ For TE50 and TE60 | | | | | | |
| ✔ | ✔ | | | ✔ For TE20, TE25, TE35 and TE42 | | | | | ✔ | |
| ✔ | | | | ✔ For TE20, TE25, TE35 and TE42 | | | | | | |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | | | |
| | | ✔ | | | | | | ✔ | ✔ | ✔ |
| ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | | ✔ | |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ 20m, 30m (Z50) | ✔ 20m, 30m (Z50 and Z60) | ✔ 20m, 30m (Z50 and Z60) | ✔ 15m, 20m (XE/E18) | ✔ 15m, 20m (TE50 and TE60) | ✔ 15m | ✔ 15m | ✔ 15m | ✔ 15m, 20m (E18) | ✔ 20m, 30m (E18 and E21) | ✔ 20m, 30m (E18) |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

# FEATURES EXPLAINED

## Energy saving

38% ECONAVI — Domestic Econavi. Sunlight Sensor technology can detect and reduce the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

INVERTER+ — Inverter Plus System. This classification highlight the Panasonic highest performing systems.

INVERTER — Inverter system. The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

R2 ROTARY COMPRESSOR — R2 Rotary Compressor. Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.

R32 — Refrigerant R32. Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.

## High performance and healthy air

nanoe™ X — nanoe™ X. Panasonic's latest innovation nanoe™ X helps you deodorise, inhibit certain growth of bacteria and viruses that are harmful to you and your family's general well-being.

PM2,5 FILTER — PM2,5 Filter. Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. Sized at 2,5µm, these particles are said to pose health problems as they can easily enter our lungs.

DUST COLLECTION FILTER — Dust Collection Filter. This filter collects and retain particles suspended on the air, as result the air is cleaner in the room.

Antiallergy Properties. System is equipped with antiallergy properties filter.

18dB(A) — Super Quiet. Thanks to its latest generation compressor and its twin blade fan, our outdoor unit is one of the most silent on the market. The indoor unit emits an almost imperceptible 18 dB(A).

HUMIDITY CONTROL MILD DRY — Mild Dry Cooling. Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature. Maintains an RH* up to 10% higher than cooling operation (*RH: Relative Humidity). Ideal when sleeping with the air conditioner on.

AEROWINGS — Aerowings. More comfort with Aerowings. Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor.

-10°C COOLING MODE — Down to -10°C in cooling only mode. The air conditioner works in cooling only mode with an outdoor temperature of -10°C.

-15°C HEATING MODE — Down to -15°C in heating mode. The air conditioner works in heat pump mode with an outdoor temperature is as low as -15°C.

SUMMER HOUSE — Summer House. This innovative function keeps the house at 7/8°C to avoid freezing pipes during the winter. This function is highly appreciated in summer house or week end houses.

R22 R410A R22 RENEWAL — R22 Renewal. The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.

R22 R410A R32 R22/R410A RENEWAL — R410A/R22 Renewal. The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.

Odour-removing function. Allows the exchanger to be cleaned, preventing possible odours. While this function is connected, the fan also remains OFF momentarily to avoid unpleasant odours while the exchanger is being cleaned.

Removable, washable panel. The front panel is easy to keep clean. It can be removed quickly in one single step and can be washed in water. A clean front panel ensures smoother, more efficient operation, which can save energy.

Powerful Mode. The rapid and effective powerful mode is ideal for when you come home on the hottest or coldest days. It works at maximum power to reach the desired temperature in just 15 minutes.

Soft Dry Operation Mode. The soft dry mode eliminates excess moisture with a soft breeze and provides a sense of wellbeing without much change in temperature.

Personal Airflow Creation. Permits the air direction to be adjusted vertically and horizontally. This feature can be conveniently selected by remote controller.

Automatic Vertical Airflow Control. The flap swings up and down automatically. The flow can also be set at a fixed angle with the remote controller.

Manual Horizontal Airflow Control.

Auto Mode. Automatically switches the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level based on the temperature of the room. In case of Multi Split installation the function is limited to first unit working and logic of switching is different considering also the outdoor temperature.

Hot Start Mode. At the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.

24 DUAL — Real time clock with dual ON&OFF timer. This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

/ 7 — Weekly timer. Allow to fix per each day of the week up to 6 operations per day.

LCD infrared remote controller.

Automatic Restart. This function permits automatic restarting if safe mode operation has stopped for some unusual reason, such as after a power cut. As soon as the power is back, the unit restarts with the parameters selected before it stopped.

Long Piping. Indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The distances permitted, demonstrate the installations possible.

Top-Panel Maintenance Access. Maintenance of an outdoor unit used to be quite a tedious task. Now, with the possibility of removing the top cover, maintenance is quick and easy.

Self-Diagnosis Function. With this function the unit carries out a process self-diagnosis when a particular function does not work correctly. This allows faster servicing.

## High connectivity

INTEGRATION TO P-LINK — CZ-CAPRA1: CZ-CNT port integration to PACi and ECOi. Domestic integration to P-Link. Can connect ranges to P-Link. Full control is now possible.

OPTIONAL WLAN — Internet Control. Internet Control is a next generation system providing user-friendly remote controller of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

BMS CONNECTIVITY — Easy control by BMS. The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

5 YEARS COMPRESSOR WARRANTY — 5 Years Warranty. Panasonic guarantees the compressors in the entire range for five years.

# ACCESSORIES AND CONTROL

## Optional PCB's for additional functions



**CZ-TACG1**
Panasonic Comfort Cloud for internet control.



**CZ-CAPRA1**
RAC interface adapter for integration into P-Link.




**PAW-AC-KNX-1i**
This interface can be used with all models which have a CN-CNT connector.



**PAW-AC-MBS-1**
This interface can be used with all models which have a CN-CNT connector.



**PAW-AC-ENO-1i**
This interface can be used with all models which have a CN-CNT connector.



**PAW-AC-BAC-1**
This interface can be used with all models which have a CN-CNT connector.



**PAW-AC-DIO**
This interface can be used with all models which have a CN-RMT connector.



**PAW-AC-HEAT-1**
Heating only PCB for Etherea, 4 Way 60x60 Cassette and Hide Away.



**PAW-SMSCONTROL**
Control of the Etherea, Flagship and Heatcharge by SMS (need additional SIM card).

## Individual Controls



**CZ-RD514C**
Wired remote controller for Wall Mounted and Floor Console.



**CZ-RD52CP**
Wired remote controller for Cassette.



**CZ-RL511D**
NEW Infrared remote controller Sky Remote. 2m cable length of infrared receiver for Hide Away (available in April 2019).

## Panels



**CZ-BT20EW**
RAL9010 panel for 4 Way 60x60 Cassette.

## Pipe reducer



**CZ-MA1P**
Is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".

**CZ-MA2P**
Is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".

**CZ-MA3P**
Is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".



# Free Multi R32 combinations table

## Free Multi 2x1 CU-2Z35TBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 6,00kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,20 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,77) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,95 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,75 |
| 35 | 3,50 | | 3,50 (1,10 - 4,00) | 3,47 | | 1,01 (0,22 - 1,22) | 505 | 4,70 | 4,20 | | 4,20 (0,70 - 5,60) | 3,44 | | 1,22 (0,17 - 1,68) | 610 | 5,65 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,92 | **8,50** A+++ | 0,65 (0,25 - 1,00) | 325 | 3,05 | 2,10 | 2,10 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 16 + 20 | 1,55 | 1,95 | 3,50 (1,50 - 4,50) | 4,86 | **8,50** A+++ | 0,72 (0,25 - 1,10) | 360 | 3,35 | 1,85 | 2,35 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 16 + 25 | 1,35 | 2,15 | 3,50 (1,50 - 4,50) | 4,86 | **8,50** A+++ | 0,72 (0,25 - 1,10) | 360 | 3,35 | 1,65 | 2,55 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 16 + 35 | 1,10 | 2,40 | 3,50 (1,50 - 4,50) | 4,86 | **8,50** A+++ | 0,72 (0,25 - 1,10) | 360 | 3,35 | 1,30 | 2,90 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 20 + 20 | 1,75 | 1,75 | 3,50 (1,50 - 4,50) | 4,86 | **8,50** A+++ | 0,72 (0,25 - 1,10) | 360 | 3,35 | 2,10 | 2,10 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 20 + 25 | 1,55 | 1,95 | 3,50 (1,50 - 4,50) | 4,86 | **8,50** A+++ | 0,72 (0,25 - 1,10) | 360 | 3,35 | 1,85 | 2,35 | 4,20 (1,10 - 5,60) | 4,88 | **4,60** A++ | 0,86 (0,21 - 1,34) | 430 | 4,00 |
| 20 + 35 | 1,25 | 2,25 | 3,50 (1,50 - 4,50) | 5,07 | **8,50** A+++ | 0,69 (0,25 - 1,05) | 345 | 3,25 | 1,55 | 2,65 | 4,20 (1,10 - 5,60) | 5,00 | **4,60** A++ | 0,84 (0,21 - 1,29) | 420 | 3,90 |
| 25 + 25 | 1,75 | 1,75 | 3,50 (1,50 - 4,50) | 5,07 | **8,50** A+++ | 0,69 (0,25 - 1,05) | 345 | 3,25 | 2,10 | 2,10 | 4,20 (1,10 - 5,60) | 5,00 | **4,60** A++ | 0,84 (0,21 - 1,29) | 420 | 3,90 |
| 25 + 35 | 1,45 | 2,05 | 3,50 (1,50 - 4,50) | 5,07 | **8,50** A+++ | 0,69 (0,25 - 1,05) | 345 | 3,25 | 1,75 | 2,45 | 4,20 (1,10 - 5,60) | 5,00 | **4,60** A++ | 0,84 (0,21 - 1,29) | 420 | 3,90 |

## Free Multi 2x1 CU-2Z41TBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 6,00kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,20 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,77) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,95 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,75 |
| 35 | 3,50 | | 3,50 (1,10 - 4,00) | 3,47 | | 1,01 (0,22 - 1,22) | 505 | 4,70 | 4,50 | | 4,50 (0,70 - 6,20) | 3,60 | | 1,25 (0,17 - 1,81) | 625 | 5,80 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,71 | **8,50** A+++ | 0,68 (0,25 - 0,99) | 340 | 3,15 | 2,20 | 2,20 | 4,40 (1,10 - 7,00) | 4,68 | **4,60** A++ | 0,94 (0,21 - 1,81) | 470 | 4,35 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,62 | **8,50** A+++ | 0,78 (0,25 - 1,15) | 390 | 3,60 | 2,05 | 2,55 | 4,60 (1,10 - 7,00) | 4,79 | **4,60** A++ | 0,96 (0,21 - 1,79) | 480 | 4,45 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 1,80 | 2,80 | 4,60 (1,10 - 7,00) | 4,79 | **4,60** A++ | 0,96 (0,21 - 1,79) | 480 | 4,45 |
| 16 + 35 | 1,30 | 2,80 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 1,45 | 3,15 | 4,60 (1,10 - 7,00) | 4,79 | **4,60** A++ | 0,96 (0,21 - 1,79) | 480 | 4,45 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 5,00) | 4,49 | **8,50** A+++ | 0,89 (0,25 - 1,31) | 445 | 4,10 | 2,30 | 2,30 | 4,60 (1,10 - 7,00) | 4,84 | **4,60** A++ | 0,95 (0,21 - 1,77) | 475 | 4,40 |
| 20 + 25 | 1,80 | 2,30 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 2,05 | 2,55 | 4,60 (1,10 - 7,00) | 4,84 | **4,60** A++ | 0,95 (0,21 - 1,77) | 475 | 4,40 |
| 20 + 35 | 1,50 | 2,60 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 1,65 | 2,95 | 4,60 (1,10 - 7,00) | 4,84 | **4,60** A++ | 0,95 (0,21 - 1,77) | 475 | 4,40 |
| 25 + 25 | 2,05 | 2,05 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 2,30 | 2,30 | 4,60 (1,10 - 7,00) | 4,84 | **4,60** A++ | 0,95 (0,21 - 1,77) | 475 | 4,40 |
| 25 + 35 | 1,70 | 2,40 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 1,90 | 2,70 | 4,60 (1,10 - 7,00) | 4,84 | **4,60** A++ | 0,95 (0,21 - 1,77) | 475 | 4,40 |

## Free Multi 2x1 CU-2Z50TBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 7,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,20 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,77) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,95 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,75 |
| 35 | 3,50 | | 3,50 (1,10 - 4,00) | 3,47 | | 1,01 (0,22 - 1,22) | 505 | 4,70 | 4,50 | | 4,50 (0,70 - 6,20) | 3,60 | | 1,25 (0,17 - 1,81) | 625 | 5,80 |
| 42 | 4,20 | | 4,20 (1,10 - 4,50) | 3,09 | | 1,36 (0,22 - 1,50) | 680 | 6,35 | 5,00 | | 5,00 (1,10 - 6,40) | 3,23 | | 1,55 (0,21 - 2,18) | 775 | 7,15 |
| 50 | 5,00 | | 5,00 (1,20 - 5,10) | 2,96 | | 1,69 (0,23 - 1,79) | 845 | 7,80 | 5,30 | | 5,30 (1,10 - 6,80) | 3,23 | | 1,64 (0,21 - 2,29) | 820 | 7,60 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,71 | **8,50** A+++ | 0,68 (0,25 - 0,99) | 340 | 3,15 | 2,60 | 2,60 | 5,20 (1,10 - 7,00) | 4,60 | **4,60** A++ | 1,13 (0,21 - 1,81) | 565 | 5,10 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,62 | **8,50** A+++ | 0,78 (0,25 - 1,15) | 390 | 3,60 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,58 | **4,60** A++ | 1,18 (0,21 - 1,79) | 590 | 5,35 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 5,20) | 4,56 | **8,50** A+++ | 0,90 (0,25 - 1,37) | 450 | 4,15 | 2,10 | 3,30 | 5,40 (1,10 - 7,00) | 4,58 | **4,60** A++ | 1,18 (0,21 - 1,79) | 590 | 5,35 |
| 16 + 35 | 1,55 | 3,45 | 5,00 (1,50 - 5,20) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,37) | 590 | 5,35 | 1,70 | 3,70 | 5,40 (1,10 - 7,00) | 4,58 | **4,60** A++ | 1,18 (0,21 - 1,79) | 590 | 5,35 |
| 16 + 42 | 1,40 | 3,60 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 1,55 | 4,05 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 16 + 50 | 1,20 | 3,80 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 1,35 | 4,25 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 5,00) | 4,49 | **8,50** A+++ | 0,89 (0,25 - 1,31) | 445 | 4,10 | 2,70 | 2,70 | 5,40 (1,10 - 7,00) | 4,62 | **4,60** A++ | 1,17 (0,21 - 1,77) | 585 | 5,30 |
| 20 + 25 | 2,00 | 2,50 | 4,50 (1,50 - 5,20) | 4,37 | **8,50** A+++ | 1,03 (0,25 - 1,37) | 515 | 4,65 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,62 | **4,60** A++ | 1,17 (0,21 - 1,77) | 585 | 5,30 |
| 20 + 35 | 1,80 | 3,20 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,05 | 3,55 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 20 + 42 | 1,60 | 3,40 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 1,80 | 3,80 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 20 + 50 | 1,45 | 3,55 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 1,60 | 4,00 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 25 + 25 | 2,50 | 2,50 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,80 | 2,80 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 25 + 35 | 2,10 | 2,90 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,35 | 3,25 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 25 + 42 | 1,85 | 3,15 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,10 | 3,50 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 25 + 50 | 1,65 | 3,35 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 1,85 | 3,75 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 35 + 35 | 2,50 | 2,50 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,80 | 2,80 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |
| 35 + 42 | 2,25 | 2,75 | 5,00 (1,50 - 5,40) | 4,24 | **8,50** A+++ | 1,18 (0,25 - 1,49) | 590 | 5,35 | 2,55 | 3,05 | 5,60 (1,10 - 7,20) | 4,63 | **4,60** A++ | 1,21 (0,21 - 1,80) | 605 | 5,50 |

1) Energy Label Scale from A+++ to D.

## Free Multi 3x1 CU-3Z52TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 9,50kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 4,00 | | 0,40 (0,25 - 0,64) | 200 | 2,00 | 2,60 | | | 2,60 (1,20 - 3,20) | 4,33 | | 0,60 (0,30 - 0,96) | 300 | 3,00 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 4,00 | | 0,50 (0,34 - 0,81) | 250 | 2,50 | 3,20 | | | 3,20 (1,20 - 4,10) | 4,32 | | 0,74 (0,30 - 1,23) | 370 | 3,70 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,97 | | 0,63 (0,34 - 0,81) | 315 | 3,00 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,83 | | 0,94 (0,30 - 1,23) | 470 | 4,50 |
| 35 | 3,50 | | | 3,50 (1,80 - 3,80) | 3,72 | | 0,94 (0,34 - 1,36) | 470 | 4,30 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,66 | | 1,23 (0,30 - 2,10) | 615 | 5,80 |
| 42 | 4,20 | | | 4,20 (1,80 - 4,30) | 3,07 | | 1,37 (0,34 - 1,99) | 685 | 6,10 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,26 | | 1,72 (0,30 - 2,93) | 860 | 7,70 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 3,23 | | 1,55 (0,34 - 2,13) | 775 | 6,80 | 6,80 | | | 6,80 (1,20 - 6,90) | 3,24 | | 2,10 (0,30 - 2,52) | 1050 | 9,20 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,80 - 6,20) | 5,42 | **7,00** A+++ | 0,59 (0,33 - 2,09) | 295 | 2,90 | 2,60 | 2,60 | | 5,20 (1,40 - 7,00) | 4,13 | **3,80** A | 1,26 (0,34 - 1,99) | 630 | 5,80 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,80 - 6,20) | 4,93 | **7,00** A+++ | 0,73 (0,33 - 2,05) | 365 | 3,50 | 2,58 | 3,22 | | 5,80 (1,40 - 7,00) | 4,03 | **3,80** A | 1,44 (0,33 - 1,95) | 720 | 6,60 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,80 - 6,20) | 4,66 | **7,00** A+++ | 0,88 (0,33 - 2,05) | 440 | 4,10 | 2,42 | 3,78 | | 6,20 (1,40 - 7,00) | 3,95 | **3,80** A | 1,57 (0,33 - 1,95) | 785 | 7,20 |
| 16 + 35 | 1,60 | 3,50 | | 5,10 (1,80 - 6,30) | 3,89 | **7,00** A+++ | 1,31 (0,33 - 2,06) | 655 | 6,00 | 2,13 | 4,67 | | 6,80 (1,40 - 7,30) | 3,89 | **3,80** A | 1,75 (0,29 - 2,05) | 875 | 7,90 |
| 16 + 42 | 1,43 | 3,77 | | 5,20 (1,90 - 6,40) | 3,85 | **7,00** A+++ | 1,35 (0,35 - 2,10) | 675 | 6,20 | 1,88 | 4,92 | | 6,80 (1,40 - 7,30) | 3,98 | **3,80** A | 1,71 (0,31 - 2,04) | 855 | 7,80 |
| 16 + 50 | 1,26 | 3,94 | | 5,20 (1,90 - 6,80) | 4,44 | **7,20** A+++ | 1,17 (0,34 - 2,04) | 585 | 5,40 | 1,65 | 5,15 | | 6,80 (1,40 - 8,00) | 4,36 | **4,00** A+ | 1,56 (0,27 - 2,15) | 780 | 7,10 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,80 - 6,20) | 4,71 | **7,00** A+++ | 0,85 (0,33 - 2,01) | 425 | 4,00 | 3,20 | 3,20 | | 6,40 (1,40 - 7,00) | 3,93 | **3,80** A | 1,63 (0,32 - 1,95) | 815 | 7,40 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,80 - 6,20) | 4,33 | **7,00** A+++ | 1,04 (0,33 - 2,01) | 520 | 4,80 | 3,02 | 3,78 | | 6,80 (1,40 - 7,00) | 3,86 | **3,80** A | 1,76 (0,29 - 1,95) | 880 | 8,00 |
| 20 + 35 | 1,89 | 3,31 | | 5,20 (1,80 - 6,30) | 3,85 | **7,00** A+++ | 1,35 (0,33 - 2,02) | 675 | 6,20 | 2,47 | 4,33 | | 6,80 (1,40 - 7,30) | 3,98 | **3,80** A | 1,71 (0,28 - 2,04) | 855 | 7,80 |
| 20 + 42 | 1,68 | 3,52 | | 5,20 (1,90 - 6,40) | 3,94 | **7,00** A+++ | 1,32 (0,35 - 2,06) | 660 | 6,00 | 2,19 | 4,61 | | 6,80 (1,40 - 7,30) | 4,00 | **3,80** A | 1,70 (0,30 - 2,00) | 850 | 7,80 |
| 20 + 50 | 1,49 | 3,71 | | 5,20 (1,90 - 6,80) | 4,44 | **7,20** A+++ | 1,17 (0,34 - 2,04) | 585 | 5,40 | 1,94 | 4,86 | | 6,80 (1,40 - 8,00) | 4,36 | **4,00** A+ | 1,56 (0,27 - 2,15) | 780 | 7,10 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,80 - 6,20) | 3,91 | **7,00** A+++ | 1,28 (0,33 - 2,01) | 640 | 5,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,00) | 3,86 | **3,80** A | 1,76 (0,29 - 1,95) | 880 | 8,00 |
| 25 + 35 | 2,17 | 3,03 | | 5,20 (1,90 - 6,30) | 3,85 | **7,00** A+++ | 1,35 (0,35 - 2,02) | 675 | 6,20 | 2,83 | 3,97 | | 6,80 (1,40 - 7,30) | 3,98 | **3,80** A | 1,71 (0,28 - 2,04) | 855 | 7,80 |
| 25 + 42 | 1,94 | 3,26 | | 5,20 (1,90 - 6,40) | 3,94 | **7,00** A+++ | 1,32 (0,35 - 2,06) | 660 | 6,00 | 2,54 | 4,26 | | 6,80 (1,40 - 7,30) | 4,00 | **3,80** A | 1,70 (0,28 - 2,00) | 850 | 7,80 |
| 25 + 50 | 1,73 | 3,47 | | 5,20 (1,90 - 6,80) | 4,44 | **7,20** A+++ | 1,17 (0,34 - 2,04) | 585 | 5,40 | 2,27 | 4,53 | | 6,80 (1,40 - 8,00) | 4,36 | **4,00** A+ | 1,56 (0,24 - 2,15) | 780 | 7,10 |
| 35 + 35 | 2,60 | 2,60 | | 5,20 (1,90 - 6,40) | 4,06 | **7,00** A+++ | 1,28 (0,35 - 2,02) | 640 | 5,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,50) | 4,02 | **3,80** A | 1,69 (0,27 - 2,06) | 845 | 7,70 |
| 35 + 42 | 2,36 | 2,84 | | 5,20 (1,90 - 6,50) | 4,06 | **7,00** A+++ | 1,28 (0,35 - 2,07) | 640 | 5,80 | 3,09 | 3,71 | | 6,80 (1,40 - 7,50) | 4,02 | **3,80** A | 1,69 (0,26 - 2,06) | 845 | 7,70 |
| 35 + 50 | 2,14 | 3,06 | | 5,20 (1,90 - 6,90) | 4,60 | **7,20** A+++ | 1,13 (0,36 - 2,04) | 565 | 5,20 | 2,80 | 4,00 | | 6,80 (1,40 - 8,00) | 4,42 | **4,00** A+ | 1,54 (0,24 - 2,08) | 770 | 7,00 |
| 42 + 42 | 2,60 | 2,60 | | 5,20 (1,90 - 6,50) | 4,06 | **7,00** A+++ | 1,28 (0,35 - 2,07) | 640 | 5,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,60) | 4,12 | **3,80** A | 1,65 (0,26 - 2,09) | 825 | 7,50 |
| 42 + 50 | 2,37 | 2,83 | | 5,20 (1,90 - 6,90) | 4,60 | **7,20** A+++ | 1,13 (0,36 - 2,04) | 565 | 5,20 | 3,10 | 3,70 | | 6,80 (1,40 - 8,00) | 4,44 | **4,00** A+ | 1,53 (0,24 - 2,08) | 765 | 7,00 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,80 - 7,20) | 5,05 | **8,50** A+++ | 0,95 (0,36 - 2,13) | 475 | 4,40 | 2,26 | 2,26 | 2,26 | 6,78 (1,50 - 8,10) | 4,58 | **4,20** A+ | 1,48 (0,29 - 2,10) | 740 | 6,80 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,80 - 7,30) | 4,77 | **8,50** A+++ | 1,09 (0,36 - 2,18) | 545 | 5,00 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,63 | **4,20** A+ | 1,47 (0,32 - 2,17) | 735 | 6,70 |
| 16 + 16 + 25 | 1,46 | 1,46 | 2,28 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,91 | 1,91 | 2,98 | 6,80 (1,60 - 8,30) | 4,63 | **4,20** A+ | 1,47 (0,32 - 2,17) | 735 | 6,70 |
| 16 + 16 + 35 | 1,24 | 1,24 | 2,72 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,04) | 545 | 5,00 | 1,62 | 1,62 | 3,56 | 6,80 (1,60 - 8,30) | 4,69 | **4,20** A+ | 1,45 (0,34 - 2,10) | 725 | 6,60 |
| 16 + 16 + 42 | 1,12 | 1,12 | 2,96 | 5,20 (1,80 - 7,30) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,47 | 1,47 | 3,86 | 6,80 (1,60 - 8,30) | 4,69 | **4,20** A+ | 1,45 (0,31 - 2,10) | 725 | 6,60 |
| 16 + 16 + 50 | 1,01 | 1,01 | 3,18 | 5,20 (1,80 - 7,30) | 5,15 | **8,50** A+++ | 1,01 (0,42 - 1,91) | 505 | 4,70 | 1,33 | 1,33 | 4,14 | 6,80 (1,60 - 8,30) | 5,07 | **4,20** A+ | 1,34 (0,33 - 1,96) | 670 | 6,10 |
| 16 + 20 + 20 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,66 | **4,20** A+ | 1,46 (0,31 - 2,12) | 730 | 6,70 |
| 16 + 20 + 25 | 1,36 | 1,70 | 2,14 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,78 | 2,23 | 2,79 | 6,80 (1,60 - 8,30) | 4,66 | **4,20** A+ | 1,46 (0,31 - 2,12) | 730 | 6,70 |
| 16 + 20 + 35 | 1,17 | 1,46 | 2,57 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,00) | 545 | 5,00 | 1,53 | 1,92 | 3,35 | 6,80 (1,60 - 8,30) | 4,69 | **4,20** A+ | 1,45 (0,34 - 2,10) | 725 | 6,60 |
| 16 + 20 + 42 | 1,07 | 1,33 | 2,80 | 5,20 (1,80 - 7,30) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,39 | 1,74 | 3,67 | 6,80 (1,60 - 8,30) | 4,72 | **4,20** A+ | 1,44 (0,31 - 2,09) | 720 | 6,60 |
| 16 + 20 + 50 | 0,97 | 1,21 | 3,02 | 5,20 (1,80 - 7,30) | 5,15 | **8,50** A+++ | 1,01 (0,42 - 1,86) | 505 | 4,70 | 1,27 | 1,58 | 3,95 | 6,80 (1,60 - 8,30) | 5,11 | **4,20** A+ | 1,33 (0,34 - 1,95) | 665 | 6,10 |
| 16 + 25 + 25 | 1,26 | 1,97 | 1,97 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,64 | 2,58 | 2,58 | 6,80 (1,60 - 8,30) | 4,66 | **4,20** A+ | 1,46 (0,31 - 2,12) | 730 | 6,70 |
| 16 + 25 + 35 | 1,09 | 1,71 | 2,40 | 5,20 (1,80 - 7,30) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,43 | 2,24 | 3,13 | 6,80 (1,60 - 8,30) | 4,69 | **4,20** A+ | 1,45 (0,34 - 2,10) | 725 | 6,60 |
| 16 + 25 + 42 | 1,00 | 1,57 | 2,63 | 5,20 (1,80 - 7,30) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,09) | 545 | 5,00 | 1,31 | 2,05 | 3,44 | 6,80 (1,60 - 8,30) | 4,72 | **4,20** A+ | 1,44 (0,31 - 2,09) | 720 | 6,60 |
| 16 + 25 + 50 | 0,91 | 1,43 | 2,86 | 5,20 (1,80 - 7,30) | 5,15 | **8,50** A+++ | 1,01 (0,42 - 1,86) | 505 | 4,70 | 1,19 | 1,87 | 3,74 | 6,80 (1,60 - 8,30) | 5,11 | **4,20** A+ | 1,33 (0,34 - 1,95) | 665 | 6,10 |
| 16 + 35 + 35 | 0,96 | 2,12 | 2,12 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,04) | 525 | 4,80 | 1,26 | 2,77 | 2,77 | 6,80 (1,60 - 8,30) | 4,76 | **4,20** A+ | 1,43 (0,32 - 2,07) | 715 | 6,50 |
| 16 + 35 + 42 | 0,89 | 1,96 | 2,35 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,04) | 525 | 4,80 | 1,17 | 2,56 | 3,07 | 6,80 (1,60 - 8,30) | 4,79 | **4,20** A+ | 1,42 (0,32 - 2,06) | 710 | 6,50 |
| 20 + 20 + 20 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 4,76 | **8,50** A+++ | 1,09 (0,39 - 2,04) | 545 | 5,00 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,64 | **4,20** A+ | 1,46 (0,31 - 2,11) | 730 | 6,70 |
| 20 + 20 + 25 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,04) | 545 | 5,00 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,66 | **4,20** A+ | 1,46 (0,31 - 2,11) | 730 | 6,70 |
| 20 + 20 + 35 | 1,39 | 1,39 | 2,42 | 5,20 (1,90 - 7,20) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,00) | 525 | 4,80 | 1,81 | 1,81 | 3,18 | 6,80 (1,60 - 8,30) | 4,72 | **4,20** A+ | 1,44 (0,34 - 2,09) | 720 | 6,60 |
| 20 + 20 + 42 | 1,27 | 1,27 | 2,66 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,04) | 525 | 4,80 | 1,66 | 1,66 | 3,48 | 6,80 (1,60 - 8,30) | 4,76 | **4,20** A+ | 1,43 (0,32 - 2,08) | 715 | 6,50 |
| 20 + 20 + 50 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 7,30) | 5,15 | **8,50** A+++ | 1,01 (0,42 - 1,86) | 505 | 4,70 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 8,30) | 5,11 | **4,20** A+ | 1,33 (0,34 - 1,94) | 665 | 6,10 |
| 20 + 25 + 25 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 4,77 | **8,50** A+++ | 1,09 (0,39 - 2,04) | 545 | 5,00 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,66 | **4,20** A+ | 1,46 (0,31 - 2,11) | 730 | 6,70 |
| 20 + 25 + 35 | 1,29 | 1,63 | 2,28 | 5,20 (1,90 - 7,20) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,00) | 525 | 4,80 | 1,69 | 2,13 | 2,98 | 6,80 (1,60 - 8,30) | 4,72 | **4,20** A+ | 1,44 (0,34 - 2,09) | 720 | 6,60 |
| 20 + 25 + 42 | 1,20 | 1,49 | 2,51 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,04) | 525 | 4,80 | 1,56 | 1,95 | 3,29 | 6,80 (1,60 - 8,30) | 4,76 | **4,20** A+ | 1,43 (0,32 - 2,08) | 715 | 6,50 |
| 20 + 25 + 50 | 1,09 | 1,37 | 2,74 | 5,20 (1,80 - 7,30) | 5,15 | **8,50** A+++ | 1,01 (0,42 - 1,86) | 505 | 4,70 | 1,43 | 1,79 | 3,58 | 6,80 (1,60 - 8,30) | 5,11 | **4,20** A+ | 1,33 (0,34 - 1,94) | 665 | 6,10 |
| 20 + 35 + 35 | 1,16 | 2,02 | 2,02 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,00) | 525 | 4,80 | 1,52 | 2,64 | 2,64 | 6,80 (1,60 - 8,30) | 4,79 | **4,20** A+ | 1,42 (0,32 - 2,06) | 710 | 6,50 |
| 25 + 25 + 25 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 4,76 | **8,50** A+++ | 1,09 (0,39 - 2,04) | 545 | 5,00 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,64 | **4,20** A+ | 1,46 (0,31 - 2,11) | 730 | 6,70 |
| 25 + 25 + 35 | 1,53 | 1,53 | 2,14 | 5,20 (1,90 - 7,20) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,00) | 525 | 4,80 | 2,00 | 2,00 | 2,80 | 6,80 (1,60 - 8,30) | 4,72 | **4,20** A+ | 1,44 (0,31 - 2,09) | 720 | 6,60 |
| 25 + 25 + 42 | 1,41 | 1,41 | 2,38 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,04) | 525 | 4,80 | 1,85 | 1,85 | 3,10 | 6,80 (1,60 - 8,30) | 4,76 | **4,20** A+ | 1,43 (0,68 - 2,08) | 715 | 6,50 |
| 25 + 35 + 35 | 1,36 | 1,92 | 1,92 | 5,20 (1,80 - 7,30) | 4,95 | **8,50** A+++ | 1,05 (0,39 - 2,00) | 525 | 4,80 | 1,78 | 2,51 | 2,51 | 6,80 (1,60 - 8,30) | 4,79 | **4,20** A+ | 1,42 (0,68 - 2,06) | 710 | 6,50 |

1) Energy Label Scale from A+++ to D.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R32 combinations table

## Free Multi 3x1 CU-3Z68TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,20kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 4,00 | | 0,40 (0,25 - 0,64) | 200 | 2,00 | 2,60 | | | 2,60 (1,20 - 3,20) | 4,33 | | 0,60 (0,30 - 0,96) | 300 | 3,00 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 4,00 | | 0,50 (0,34 - 0,81) | 250 | 2,50 | 3,20 | | | 3,20 (1,20 - 4,10) | 4,32 | | 0,74 (0,30 - 1,23) | 370 | 3,70 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,97 | | 0,63 (0,34 - 0,81) | 315 | 3,20 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,83 | | 0,94 (0,30 - 1,23) | 470 | 4,70 |
| 35 | 3,50 | | | 3,50 (1,80 - 3,80) | 3,72 | | 0,94 (0,34 - 1,36) | 470 | 4,50 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,66 | | 1,23 (0,30 - 2,10) | 615 | 6,00 |
| 42 | 4,20 | | | 4,20 (1,80 - 4,30) | 3,07 | | 1,37 (0,34 - 1,99) | 685 | 6,40 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,26 | | 1,72 (0,30 - 2,93) | 860 | 8,00 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 3,23 | | 1,55 (0,34 - 2,13) | 775 | 7,20 | 6,80 | | | 6,80 (1,20 - 6,90) | 3,24 | | 2,10 (0,30 - 2,52) | 1050 | 9,70 |
| 60 | 6,00 | | | 6,00 (1,90 - 6,20) | 2,96 | | 2,03 (0,34 - 2,33) | 1015 | 9,20 | 8,50 | | | 8,50 (1,30 - 9,00) | 3,54 | | 2,40 (0,62 - 2,55) | 1200 | 11,10 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,90 - 6,40) | 5,71 | **6,10** A+++ | 0,56 (0,27 - 2,12) | 280 | 2,80 | 2,60 | 2,60 | | 5,20 (2,70 - 9,80) | 4,00 | **3,80** A | 1,30 (0,66 - 3,01) | 650 | 5,90 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,90 - 6,40) | 5,22 | **6,10** A+++ | 0,69 (0,27 - 2,08) | 345 | 3,40 | 2,58 | 3,22 | | 5,80 (2,70 - 9,80) | 3,92 | **3,80** A | 1,48 (0,65 - 3,02) | 740 | 6,80 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,90 - 6,40) | 4,94 | **6,10** A+++ | 0,83 (0,27 - 2,08) | 415 | 3,90 | 2,42 | 3,78 | | 6,20 (2,70 - 9,80) | 3,85 | **3,80** A | 1,61 (0,65 - 3,02) | 805 | 7,40 |
| 16 + 35 | 1,60 | 3,50 | | 5,10 (1,90 - 6,90) | 4,08 | **6,10** A+++ | 1,25 (0,27 - 2,48) | 625 | 5,70 | 2,23 | 4,87 | | 7,10 (2,70 - 9,90) | 3,74 | **3,80** A | 1,90 (0,63 - 3,02) | 950 | 8,60 |
| 16 + 42 | 1,60 | 4,20 | | 5,80 (1,90 - 6,90) | 3,60 | **6,10** A+++ | 1,61 (0,27 - 2,44) | 805 | 7,40 | 2,26 | 5,94 | | 8,20 (2,70 - 9,90) | 3,52 | **3,80** A | 2,33 (0,63 - 3,02) | 1165 | 10,50 |
| 16 + 50 | 1,60 | 5,00 | | 6,60 (2,00 - 7,50) | 3,63 | **6,50** A+++ | 1,82 (0,28 - 2,52) | 910 | 8,20 | 2,06 | 6,44 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 16 + 60 | 1,43 | 5,37 | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,52) | 975 | 8,80 | 1,79 | 6,71 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,90 - 6,40) | 5,00 | **6,10** A+++ | 0,80 (0,27 - 2,04) | 400 | 3,80 | 3,20 | 3,20 | | 6,40 (2,70 - 9,80) | 3,83 | **3,80** A | 1,67 (0,64 - 3,02) | 835 | 7,60 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,90 - 6,40) | 4,59 | **6,10** A+++ | 0,98 (0,27 - 2,04) | 490 | 4,60 | 3,02 | 3,78 | | 6,80 (2,70 - 9,80) | 3,78 | **3,80** A | 1,80 (0,64 - 3,02) | 900 | 8,10 |
| 20 + 35 | 2,00 | 3,50 | | 5,50 (1,90 - 6,90) | 3,85 | **6,10** A+++ | 1,43 (0,27 - 2,44) | 715 | 6,50 | 2,80 | 4,90 | | 7,70 (2,70 - 9,90) | 3,65 | **3,80** A | 2,11 (0,63 - 3,02) | 1055 | 9,50 |
| 20 + 42 | 2,00 | 4,20 | | 6,20 (1,90 - 6,90) | 3,35 | **6,10** A+++ | 1,85 (0,27 - 2,40) | 925 | 8,40 | 2,74 | 5,76 | | 8,50 (2,70 - 9,90) | 3,48 | **3,80** A | 2,44 (0,62 - 3,03) | 1220 | 11,00 |
| 20 + 50 | 1,94 | 4,86 | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,48) | 975 | 8,80 | 2,43 | 6,07 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 20 + 60 | 1,70 | 5,10 | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,48) | 975 | 8,80 | 2,12 | 6,38 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,90 - 6,80) | 4,13 | **6,10** A+++ | 1,21 (0,27 - 2,43) | 605 | 5,60 | 3,60 | 3,60 | | 7,20 (2,70 - 9,80) | 3,71 | **3,80** A | 1,94 (0,64 - 3,02) | 970 | 8,80 |
| 25 + 35 | 2,50 | 3,50 | | 6,00 (1,90 - 6,90) | 3,47 | **6,10** A+++ | 1,73 (0,27 - 2,44) | 865 | 7,90 | 3,37 | 4,73 | | 8,10 (2,70 - 9,90) | 3,60 | **3,80** A | 2,25 (0,63 - 3,02) | 1125 | 10,20 |
| 25 + 42 | 2,50 | 4,20 | | 6,70 (1,90 - 6,90) | 2,94 | **6,10** A+++ | 2,28 (0,27 - 2,40) | 1140 | 10,30 | 3,17 | 5,33 | | 8,50 (2,70 - 9,90) | 3,48 | **3,80** A | 2,44 (0,62 - 3,03) | 1220 | 11,00 |
| 25 + 50 | 2,27 | 4,53 | | 6,80 (1,90 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,26 - 2,48) | 975 | 8,80 | 2,83 | 5,67 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 25 + 60 | 2,00 | 4,80 | | 6,80 (1,90 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,26 - 2,48) | 975 | 8,80 | 2,50 | 6,00 | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 35 + 35 | 3,40 | 3,40 | | 6,80 (1,90 - 7,00) | 2,97 | **6,10** A+++ | 2,29 (0,27 - 2,40) | 1145 | 10,40 | 4,25 | 4,25 | | 8,50 (2,80 - 10,00) | 3,56 | **3,80** A | 2,39 (0,64 - 3,02) | 1195 | 10,80 |
| 35 + 42 | 3,09 | 3,71 | | 6,80 (1,90 - 7,10) | 3,04 | **6,10** A+++ | 2,24 (0,27 - 2,50) | 1120 | 10,10 | 3,86 | 4,64 | | 8,50 (2,80 - 10,00) | 3,56 | **3,80** A | 2,39 (0,60 - 3,02) | 1195 | 10,80 |
| 35 + 50 | 2,80 | 4,00 | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,48) | 935 | 8,50 | 3,50 | 5,00 | | 8,50 (2,80 - 10,30) | 3,86 | **3,80** A | 2,20 (0,54 - 2,97) | 1100 | 10,00 |
| 35 + 60 | 2,51 | 4,29 | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,48) | 935 | 8,50 | 3,13 | 5,37 | | 8,50 (2,80 - 10,30) | 3,86 | **3,80** A | 2,20 (0,54 - 2,97) | 1100 | 10,00 |
| 42 + 42 | 3,40 | 3,40 | | 6,80 (1,90 - 7,10) | 3,02 | **6,10** A+++ | 2,25 (0,26 - 2,45) | 1125 | 10,20 | 4,25 | 4,25 | | 8,50 (2,80 - 10,00) | 3,57 | **3,80** A | 2,38 (0,60 - 2,98) | 1190 | 10,80 |
| 42 + 50 | 3,10 | 3,70 | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,44) | 935 | 8,50 | 3,88 | 4,62 | | 8,50 (2,80 - 10,30) | 3,88 | **3,80** A | 2,19 (0,54 - 2,96) | 1095 | 9,90 |
| 42 + 60 | 2,80 | 4,00 | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,44) | 935 | 8,50 | 3,50 | 5,00 | | 8,50 (2,80 - 10,30) | 3,88 | **3,80** A | 2,19 (0,54 - 2,96) | 1095 | 9,90 |
| 50 + 50 | 3,40 | 3,40 | | 6,80 (2,10 - 8,10) | 4,10 | **6,50** A+++ | 1,66 (0,32 - 2,50) | 830 | 7,60 | 4,25 | 4,25 | | 8,50 (2,80 - 10,50) | 4,15 | **3,80** A | 2,05 (0,51 - 2,87) | 1025 | 9,30 |
| 50 + 60 | 3,09 | 3,71 | | 6,80 (2,10 - 8,10) | 4,10 | **6,50** A+++ | 1,66 (0,32 - 2,50) | 830 | 7,60 | 3,86 | 4,64 | | 8,50 (2,80 - 10,50) | 4,15 | **3,80** A | 2,05 (0,51 - 2,87) | 1025 | 9,30 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,90 - 8,00) | 4,85 | **8,00** A+++ | 0,99 (0,27 - 2,50) | 495 | 4,60 | 2,60 | 2,60 | 2,60 | 7,80 (3,30 - 10,40) | 3,98 | **4,20** A+ | 1,96 (0,64 - 2,95) | 980 | 8,90 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 8,00) | 4,60 | **8,00** A+++ | 1,13 (0,27 - 2,46) | 565 | 5,20 | 2,58 | 2,58 | 3,24 | 8,40 (3,30 - 10,40) | 3,84 | **4,20** A+ | 2,19 (0,64 - 2,94) | 1095 | 9,90 |
| 16 + 16 + 25 | 1,60 | 1,60 | 2,50 | 5,70 (1,90 - 8,00) | 4,19 | **8,00** A+++ | 1,36 (0,27 - 2,46) | 680 | 6,20 | 2,39 | 2,39 | 3,72 | 8,50 (3,30 - 10,40) | 3,81 | **4,20** A+ | 2,23 (0,64 - 2,94) | 1115 | 10,10 |
| 16 + 16 + 35 | 1,60 | 1,60 | 3,50 | 6,70 (1,90 - 8,00) | 3,68 | **8,00** A+++ | 1,82 (0,27 - 2,37) | 910 | 8,20 | 2,03 | 2,03 | 4,44 | 8,50 (3,30 - 10,40) | 3,94 | **4,20** A+ | 2,16 (0,63 - 2,92) | 1080 | 9,80 |
| 16 + 16 + 42 | 1,47 | 1,47 | 3,86 | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,46) | 930 | 8,40 | 1,84 | 1,84 | 4,82 | 8,50 (3,30 - 10,50) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,95) | 1075 | 9,70 |
| 16 + 16 + 50 | 1,33 | 1,33 | 4,14 | 6,80 (2,00 - 8,50) | 3,93 | **8,00** A+++ | 1,73 (0,32 - 2,42) | 865 | 7,90 | 1,66 | 1,66 | 5,18 | 8,50 (3,20 - 10,60) | 4,21 | **4,20** A+ | 2,02 (0,60 - 2,80) | 1010 | 9,10 |
| 16 + 16 + 60 | 1,18 | 1,18 | 4,44 | 6,80 (2,00 - 8,50) | 3,93 | **8,00** A+++ | 1,73 (0,32 - 2,42) | 865 | 7,90 | 1,48 | 1,48 | 5,54 | 8,50 (3,20 - 10,60) | 4,21 | **4,20** A+ | 2,02 (0,60 - 2,80) | 1010 | 9,10 |
| 16 + 20 + 20 | 1,60 | 2,00 | 2,00 | 5,60 (1,90 - 8,00) | 4,38 | **8,00** A+++ | 1,28 (0,27 - 2,46) | 640 | 5,80 | 2,42 | 3,04 | 3,04 | 8,50 (3,30 - 10,40) | 3,83 | **4,20** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16 + 20 + 25 | 1,60 | 2,00 | 2,50 | 6,10 (1,90 - 8,00) | 4,01 | **8,00** A+++ | 1,52 (0,27 - 2,46) | 760 | 6,90 | 2,23 | 2,79 | 3,48 | 8,50 (3,30 - 10,40) | 3,83 | **4,20** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16 + 20 + 35 | 1,53 | 1,92 | 3,35 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,37) | 930 | 8,40 | 1,92 | 2,39 | 4,19 | 8,50 (3,30 - 10,40) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,86) | 1075 | 9,70 |
| 16 + 20 + 42 | 1,39 | 1,74 | 3,67 | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,42) | 930 | 8,40 | 1,74 | 2,18 | 4,58 | 8,50 (3,30 - 10,50) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,90) | 1075 | 9,70 |
| 16 + 20 + 50 | 1,27 | 1,58 | 3,95 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,58 | 1,98 | 4,94 | 8,50 (3,20 - 10,60) | 4,23 | **4,20** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16 + 20 + 60 | 1,13 | 1,42 | 4,25 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,42 | 1,77 | 5,31 | 8,50 (3,20 - 10,60) | 4,23 | **4,20** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16 + 25 + 25 | 1,60 | 2,50 | 2,50 | 6,60 (1,90 - 8,00) | 3,73 | **8,00** A+++ | 1,77 (0,27 - 2,46) | 885 | 8,00 | 2,06 | 3,22 | 3,22 | 8,50 (3,30 - 10,40) | 3,83 | **4,20** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16 + 25 + 35 | 1,43 | 2,24 | 3,13 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,37) | 930 | 8,40 | 1,79 | 2,80 | 3,91 | 8,50 (3,30 - 10,40) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,86) | 1075 | 9,70 |
| 16 + 25 + 42 | 1,31 | 2,05 | 3,44 | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,42) | 930 | 8,40 | 1,64 | 2,56 | 4,30 | 8,50 (3,30 - 10,50) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,90) | 1075 | 9,70 |
| 16 + 25 + 50 | 1,19 | 1,87 | 3,74 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,49 | 2,34 | 4,67 | 8,50 (3,20 - 10,60) | 4,23 | **4,20** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16 + 25 + 60 | 1,08 | 1,68 | 4,04 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,35 | 2,10 | 5,05 | 8,50 (3,20 - 10,60) | 4,23 | **4,20** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16 + 35 + 35 | 1,26 | 2,77 | 2,77 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,37) | 910 | 8,20 | 1,58 | 3,46 | 3,46 | 8,50 (3,30 - 10,50) | 3,99 | **4,20** A+ | 2,13 (0,64 - 2,88) | 1065 | 9,60 |
| 16 + 35 + 42 | 1,17 | 2,56 | 3,07 | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,46 | 3,20 | 3,84 | 8,50 (3,30 - 10,50) | 4,01 | **4,20** A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 16 + 35 + 50 | 1,07 | 2,36 | 3,37 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,34 | 2,95 | 4,21 | 8,50 (3,20 - 10,60) | 4,27 | **4,20** A+ | 1,99 (0,60 - 2,77) | 995 | 9,00 |
| 16 + 35 + 60 | 0,98 | 2,14 | 3,68 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,23 | 2,68 | 4,59 | 8,50 (3,20 - 10,60) | 4,27 | **4,20** A+ | 1,99 (0,60 - 2,77) | 995 | 9,00 |
| 16 + 42 + 42 | 1,08 | 2,86 | 2,86 | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,36 | 3,57 | 3,57 | 8,50 (3,30 - 10,50) | 4,03 | **4,20** A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 16 + 42 + 50 | 1,01 | 2,64 | 3,15 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,25 | 3,31 | 3,94 | 8,50 (3,20 - 10,60) | 4,29 | **4,20** A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 20 + 20 + 20 | 2,00 | 2,00 | 2,00 | 6,00 (1,90 - 8,00) | 4,05 | **8,00** A+++ | 1,48 (0,27 - 2,41) | 740 | 6,80 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,40) | 3,91 | **4,20** A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20 + 20 + 25 | 2,00 | 2,00 | 2,50 | 6,50 (1,90 - 8,00) | 3,76 | **8,00** A+++ | 1,73 (0,27 - 2,41) | 865 | 7,90 | 2,62 | 2,62 | 3,26 | 8,50 (3,30 - 10,40) | 3,92 | **4,20** A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20 + 20 + 35 | 1,81 | 1,81 | 3,18 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,27 | 2,27 | 3,96 | 8,50 (3,30 - 10,40) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 20 + 20 + 42 | 1,66 | 1,66 | 3,48 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,07 | 2,07 | 4,36 | 8,50 (3,30 - 10,50) | 3,97 | **4,20** A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 20 + 20 + 50 | 1,51 | 1,51 | 3,78 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,89 | 1,89 | 4,72 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20 + 20 + 60 | 1,36 | 1,36 | 4,08 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,70 | 1,70 | 5,10 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20 + 25 + 25 | 1,94 | 2,43 | 2,43 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,41) | 930 | 8,40 | 2,42 | 3,04 | 3,04 | 8,50 (3,30 - 10,40) | 3,92 | **4,20** A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20 + 25 + 35 | 1,69 | 2,13 | 2,98 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,12 | 2,66 | 3,72 | 8,50 (3,30 - 10,40) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 20 + 25 + 42 | 1,56 | 1,95 | 3,29 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,95 | 2,44 | 4,11 | 8,50 (3,30 - 10,50) | 3,97 | **4,20** A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 20 + 25 + 50 | 1,43 | 1,79 | 3,58 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,79 | 2,24 | 4,47 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20 + 25 + 60 | 1,29 | 1,62 | 3,89 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,62 | 2,02 | 4,86 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20 + 35 + 35 | 1,52 | 2,64 | 2,64 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,33) | 910 | 8,20 | 1,88 | 3,31 | 3,31 | 8,50 (3,30 - 10,50) | 4,01 | **4,20** A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 20 + 35 + 42 | 1,40 | 2,45 | 2,95 | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,75 | 3,07 | 3,68 | 8,50 (3,30 - 10,50) | 4,03 | **4,20** A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 20 + 35 + 50 | 1,29 | 2,27 | 3,24 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,62 | 2,83 | 4,05 | 8,50 (3,20 - 10,60) | 4,29 | **4,20** A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 20 + 42 + 42 | 1,30 | 2,75 | 2,75 | 6,80 (1,90 - 8,20) | 3,84 | **8,00** A+++ | 1,77 (0,29 - 2,37) | 885 | 8,00 | 1,64 | 3,43 | 3,43 | 8,50 (3,30 - 10,50) | 4,05 | **4,20** A+ | 2,10 (0,63 - 2,86) | 1050 | 9,50 |
| 20 + 42 + 50 | 1,21 | 2,55 | 3,04 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,52 | 3,19 | 3,79 | 8,50 (3,20 - 10,60) | 4,31 | **4,20** A+ | 1,97 (0,62 - 2,75) | 985 | 8,90 |
| 25 + 25 + 25 | 2,26 | 2,26 | 2,26 | 6,78 (1,90 - 8,00) | 3,65 | **8,00** A+++ | 1,86 (0,27 - 2,41) | 930 | 8,40 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,40) | 3,91 | **4,20** A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |

## Free Multi 3x1 CU-3Z68TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,20kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 25+25+35 | 2,00 | 2,00 | 2,80 | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,50 | 2,50 | 3,50 | 8,50 (3,30 - 10,40) | 3,95 | **4,20** A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 25+25+42 | 1,85 | 1,85 | 3,10 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,31 | 2,31 | 3,88 | 8,50 (3,30 - 10,50) | 3,97 | **4,20** A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 25+25+50 | 1,70 | 1,70 | 3,40 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 2,13 | 2,13 | 4,24 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 25+25+60 | 1,55 | 1,55 | 3,70 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,93 | 1,93 | 4,64 | 8,50 (3,20 - 10,60) | 4,25 | **4,20** A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 25+35+35 | 1,78 | 2,51 | 2,51 | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,33) | 910 | 8,20 | 2,24 | 3,13 | 3,13 | 8,50 (3,30 - 10,50) | 4,01 | **4,20** A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 25+35+42 | 1,67 | 2,33 | 2,80 | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,08 | 2,92 | 3,50 | 8,50 (3,30 - 10,50) | 4,03 | **4,20** A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 25+35+50 | 1,55 | 2,16 | 3,09 | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,93 | 2,70 | 3,87 | 8,50 (3,20 - 10,60) | 4,29 | **4,20** A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 25+42+42 | 1,56 | 2,62 | 2,62 | 6,80 (1,90 - 8,20) | 3,84 | **8,00** A+++ | 1,77 (0,29 - 2,37) | 885 | 8,00 | 1,94 | 3,28 | 3,28 | 8,50 (3,30 - 10,50) | 4,05 | **4,20** A+ | 2,10 (0,63 - 2,86) | 1050 | 9,50 |
| 35+35+35 | 2,26 | 2,26 | 2,26 | 6,78 (1,90 - 8,20) | 3,83 | **8,00** A+++ | 1,77 (0,29 - 2,33) | 885 | 8,00 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,50) | 4,12 | **4,20** A+ | 2,06 (0,63 - 2,85) | 1030 | 9,30 |
| 35+35+42 | 2,13 | 2,13 | 2,54 | 6,80 (1,90 - 8,20) | 3,84 | **8,00** A+++ | 1,77 (0,29 - 2,33) | 885 | 8,00 | 2,66 | 2,66 | 3,18 | 8,50 (3,30 - 10,50) | 4,15 | **4,20** A+ | 2,05 (0,63 - 2,80) | 1025 | 9,30 |

1) Energy Label Scale from A+++ to D.

## Free Multi 4x1 CU-4Z68TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,50kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | 1,60 (1,30 - 2,30) | 4,00 | | 0,40 (0,25 - 0,64) | 200 | 2,00 | 2,60 | | | | 2,60 (1,20 - 3,20) | 4,33 | | 0,60 (0,30 - 0,96) | 300 | 3,00 |
| 20 | 2,00 | | | | 2,00 (1,80 - 2,90) | 4,00 | | 0,50 (0,34 - 0,81) | 250 | 2,50 | 3,20 | | | | 3,20 (1,20 - 4,10) | 4,32 | | 0,74 (0,30 - 1,23) | 370 | 3,70 |
| 25 | 2,50 | | | | 2,50 (1,80 - 2,90) | 3,97 | | 0,63 (0,34 - 0,81) | 315 | 3,20 | 3,60 | | | | 3,60 (1,20 - 4,30) | 3,83 | | 0,94 (0,30 - 1,23) | 470 | 4,70 |
| 35 | 3,50 | | | | 3,50 (1,80 - 3,80) | 3,72 | | 0,94 (0,34 - 1,36) | 470 | 4,50 | 4,50 | | | | 4,50 (1,20 - 5,80) | 3,66 | | 1,23 (0,30 - 2,10) | 615 | 6,00 |
| 42 | 4,20 | | | | 4,20 (1,80 - 4,30) | 3,07 | | 1,37 (0,34 - 1,99) | 685 | 6,40 | 5,60 | | | | 5,60 (1,20 - 6,80) | 3,26 | | 1,72 (0,30 - 2,93) | 860 | 8,00 |
| 50 | 5,00 | | | | 5,00 (1,90 - 5,70) | 3,23 | | 1,55 (0,34 - 2,13) | 775 | 7,20 | 6,80 | | | | 6,80 (1,20 - 6,90) | 3,24 | | 2,10 (0,30 - 2,52) | 1050 | 9,70 |
| 60 | 6,00 | | | | 6,00 (1,90 - 6,20) | 2,96 | | 2,03 (0,34 - 2,33) | 1015 | 9,20 | 8,50 | | | | 8,50 (1,30 - 9,00) | 3,54 | | 2,40 (0,62 - 2,55) | 1200 | 11,10 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16 | 1,60 | 1,60 | | | 3,20 (1,90 - 6,40) | 5,71 | **6,10** A+++ | 0,56 (0,27 - 2,12) | 280 | 2,80 | 2,60 | 2,60 | | | 5,20 (2,70 - 9,80) | 4,00 | **3,80** A | 1,30 (0,66 - 3,01) | 650 | 5,90 |
| 16+20 | 1,60 | 2,00 | | | 3,60 (1,90 - 6,40) | 5,22 | **6,10** A+++ | 0,69 (0,27 - 2,08) | 345 | 3,40 | 2,58 | 3,22 | | | 5,80 (2,70 - 9,80) | 3,92 | **3,80** A | 1,48 (0,65 - 3,02) | 740 | 6,80 |
| 16+25 | 1,60 | 2,50 | | | 4,10 (1,90 - 6,40) | 4,94 | **6,10** A+++ | 0,83 (0,27 - 2,08) | 415 | 3,90 | 2,42 | 3,78 | | | 6,20 (2,70 - 9,80) | 3,85 | **3,80** A | 1,61 (0,65 - 3,02) | 805 | 7,40 |
| 16+35 | 1,60 | 3,50 | | | 5,10 (1,90 - 6,90) | 4,08 | **6,10** A+++ | 1,25 (0,27 - 2,48) | 625 | 5,70 | 2,23 | 4,87 | | | 7,10 (2,70 - 9,90) | 3,74 | **3,80** A | 1,90 (0,63 - 3,02) | 950 | 8,60 |
| 16+42 | 1,60 | 4,20 | | | 5,80 (1,90 - 6,90) | 3,60 | **6,10** A+++ | 1,61 (0,27 - 2,44) | 805 | 7,40 | 2,26 | 5,94 | | | 8,20 (2,70 - 9,90) | 3,52 | **3,80** A | 2,33 (0,63 - 3,02) | 1165 | 10,50 |
| 16+50 | 1,60 | 5,00 | | | 6,60 (2,00 - 7,50) | 3,63 | **6,50** A+++ | 1,82 (0,28 - 2,52) | 910 | 8,20 | 2,06 | 6,44 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 16+60 | 1,43 | 5,37 | | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,52) | 975 | 8,80 | 1,79 | 6,71 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 20+20 | 2,00 | 2,00 | | | 4,00 (1,90 - 6,40) | 5,00 | **6,10** A+++ | 0,80 (0,27 - 2,04) | 400 | 3,80 | 3,20 | 3,20 | | | 6,40 (2,70 - 9,80) | 3,83 | **3,80** A | 1,67 (0,64 - 3,02) | 835 | 7,60 |
| 20+25 | 2,00 | 2,50 | | | 4,50 (1,90 - 6,40) | 4,59 | **6,10** A+++ | 0,98 (0,27 - 2,04) | 490 | 4,60 | 3,02 | 3,78 | | | 6,80 (2,70 - 9,80) | 3,78 | **3,80** A | 1,80 (0,64 - 3,02) | 900 | 8,10 |
| 20+35 | 2,00 | 3,50 | | | 5,50 (1,90 - 6,90) | 3,85 | **6,10** A+++ | 1,43 (0,27 - 2,44) | 715 | 6,50 | 2,80 | 4,90 | | | 7,70 (2,70 - 9,90) | 3,65 | **3,80** A | 2,11 (0,63 - 3,02) | 1055 | 9,50 |
| 20+42 | 2,00 | 4,20 | | | 6,20 (1,90 - 6,90) | 3,35 | **6,10** A+++ | 1,85 (0,27 - 2,40) | 925 | 8,40 | 2,74 | 5,76 | | | 8,50 (2,70 - 9,90) | 3,48 | **3,80** A | 2,44 (0,62 - 3,03) | 1220 | 11,00 |
| 20+50 | 1,94 | 4,86 | | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,48) | 975 | 8,80 | 2,43 | 6,07 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 20+60 | 1,70 | 5,10 | | | 6,80 (2,00 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,28 - 2,48) | 975 | 8,80 | 2,12 | 6,38 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 25+25 | 2,50 | 2,50 | | | 5,00 (1,90 - 6,80) | 4,13 | **6,10** A+++ | 1,21 (0,27 - 2,43) | 605 | 5,60 | 3,60 | 3,60 | | | 7,20 (2,70 - 9,80) | 3,71 | **3,80** A | 1,94 (0,64 - 3,02) | 970 | 8,80 |
| 25+35 | 2,50 | 3,50 | | | 6,00 (1,90 - 6,90) | 3,47 | **6,10** A+++ | 1,73 (0,27 - 2,44) | 865 | 7,90 | 3,37 | 4,73 | | | 8,10 (2,70 - 9,90) | 3,60 | **3,80** A | 2,25 (0,63 - 3,02) | 1125 | 10,20 |
| 25+42 | 2,50 | 4,20 | | | 6,70 (1,90 - 6,90) | 2,94 | **6,10** A+++ | 2,28 (0,27 - 2,40) | 1140 | 10,30 | 3,17 | 5,33 | | | 8,50 (2,70 - 9,90) | 3,48 | **3,80** A | 2,44 (0,62 - 3,03) | 1220 | 11,00 |
| 25+50 | 2,27 | 4,53 | | | 6,80 (1,90 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,26 - 2,48) | 975 | 8,80 | 2,83 | 5,67 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 25+60 | 2,00 | 4,80 | | | 6,80 (1,90 - 7,50) | 3,49 | **6,50** A+++ | 1,95 (0,26 - 2,48) | 975 | 8,80 | 2,50 | 6,00 | | | 8,50 (2,80 - 10,20) | 3,76 | **3,80** A | 2,26 (0,56 - 2,99) | 1130 | 10,20 |
| 35+35 | 3,40 | 3,40 | | | 6,80 (1,90 - 7,00) | 2,97 | **6,10** A+++ | 2,29 (0,27 - 2,40) | 1145 | 10,40 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,00) | 3,56 | **3,80** A | 2,39 (0,64 - 3,02) | 1195 | 10,80 |
| 35+42 | 3,09 | 3,71 | | | 6,80 (1,90 - 7,10) | 3,04 | **6,10** A+++ | 2,24 (0,27 - 2,50) | 1120 | 10,10 | 3,86 | 4,64 | | | 8,50 (2,80 - 10,00) | 3,56 | **3,80** A | 2,39 (0,60 - 3,02) | 1195 | 10,80 |
| 35+50 | 2,80 | 4,00 | | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,48) | 935 | 8,50 | 3,50 | 5,00 | | | 8,50 (2,80 - 10,30) | 3,86 | **3,80** A | 2,20 (0,54 - 2,97) | 1100 | 10,00 |
| 35+60 | 2,51 | 4,29 | | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,48) | 935 | 8,50 | 3,13 | 5,37 | | | 8,50 (2,80 - 10,30) | 3,86 | **3,80** A | 2,20 (0,54 - 2,97) | 1100 | 10,00 |
| 42+42 | 3,40 | 3,40 | | | 6,80 (1,90 - 7,10) | 3,02 | **6,10** A+++ | 2,25 (0,26 - 2,45) | 1125 | 10,20 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,00) | 3,57 | **3,80** A | 2,38 (0,60 - 2,98) | 1190 | 10,80 |
| 42+50 | 3,10 | 3,70 | | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,44) | 935 | 8,50 | 3,88 | 4,62 | | | 8,50 (2,80 - 10,30) | 3,88 | **3,80** A | 2,19 (0,54 - 2,96) | 1095 | 9,90 |
| 42+60 | 2,80 | 4,00 | | | 6,80 (2,00 - 7,60) | 3,64 | **6,50** A+++ | 1,87 (0,28 - 2,44) | 935 | 8,50 | 3,50 | 5,00 | | | 8,50 (2,80 - 10,30) | 3,88 | **3,80** A | 2,19 (0,54 - 2,96) | 1095 | 9,90 |
| 50+50 | 3,40 | 3,40 | | | 6,80 (2,10 - 8,10) | 4,10 | **6,50** A+++ | 1,66 (0,32 - 2,50) | 830 | 7,60 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,50) | 4,15 | **3,80** A | 2,05 (0,51 - 2,87) | 1025 | 9,30 |
| 50+60 | 3,09 | 3,71 | | | 6,80 (2,10 - 8,10) | 4,10 | **6,50** A+++ | 1,66 (0,32 - 2,50) | 830 | 7,60 | 3,86 | 4,64 | | | 8,50 (2,80 - 10,50) | 4,15 | **3,80** A | 2,05 (0,51 - 2,87) | 1025 | 9,30 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16 | 1,60 | 1,60 | 1,60 | | 4,80 (1,90 - 8,00) | 4,85 | **8,00** A+++ | 0,99 (0,27 - 2,50) | 495 | 4,60 | 2,60 | 2,60 | 2,60 | | 7,80 (3,30 - 10,40) | 3,98 | **4,00** A+ | 1,96 (0,64 - 2,95) | 980 | 8,90 |
| 16+16+20 | 1,60 | 1,60 | 2,00 | | 5,20 (1,90 - 8,00) | 4,60 | **8,00** A+++ | 1,13 (0,27 - 2,46) | 565 | 5,20 | 2,58 | 2,58 | 3,24 | | 8,40 (3,30 - 10,40) | 3,84 | **4,00** A+ | 2,19 (0,64 - 2,94) | 1095 | 9,90 |
| 16+16+25 | 1,60 | 1,60 | 2,50 | | 5,70 (1,90 - 8,00) | 4,19 | **8,00** A+++ | 1,36 (0,27 - 2,46) | 680 | 6,20 | 2,39 | 2,39 | 3,72 | | 8,50 (3,30 - 10,40) | 3,81 | **4,00** A+ | 2,23 (0,64 - 2,94) | 1115 | 10,10 |
| 16+16+35 | 1,60 | 1,60 | 3,50 | | 6,70 (1,90 - 8,00) | 3,68 | **8,00** A+++ | 1,82 (0,27 - 2,37) | 910 | 8,20 | 2,03 | 2,03 | 4,44 | | 8,50 (3,30 - 10,40) | 3,94 | **4,00** A+ | 2,16 (0,63 - 2,92) | 1080 | 9,80 |
| 16+16+42 | 1,47 | 1,47 | 3,86 | | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,46) | 930 | 8,40 | 1,84 | 1,84 | 4,82 | | 8,50 (3,30 - 10,50) | 3,95 | **4,00** A+ | 2,15 (0,62 - 2,95) | 1075 | 9,70 |
| 16+16+50 | 1,33 | 1,33 | 4,14 | | 6,80 (2,00 - 8,50) | 3,93 | **8,00** A+++ | 1,73 (0,32 - 2,42) | 865 | 7,90 | 1,66 | 1,66 | 5,18 | | 8,50 (3,20 - 10,60) | 4,21 | **4,00** A+ | 2,02 (0,60 - 2,80) | 1010 | 9,10 |
| 16+16+60 | 1,18 | 1,18 | 4,44 | | 6,80 (2,00 - 8,50) | 3,93 | **8,00** A+++ | 1,73 (0,32 - 2,42) | 865 | 7,90 | 1,48 | 1,48 | 5,54 | | 8,50 (3,20 - 10,60) | 4,21 | **4,00** A+ | 2,02 (0,60 - 2,80) | 1010 | 9,10 |
| 16+20+20 | 1,60 | 2,00 | 2,00 | | 5,60 (1,90 - 8,00) | 4,38 | **8,00** A+++ | 1,28 (0,27 - 2,46) | 640 | 5,80 | 2,42 | 3,04 | 3,04 | | 8,50 (3,30 - 10,40) | 3,83 | **4,00** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16+20+25 | 1,60 | 2,00 | 2,50 | | 6,10 (1,90 - 8,00) | 4,01 | **8,00** A+++ | 1,52 (0,27 - 2,46) | 760 | 6,90 | 2,23 | 2,79 | 3,48 | | 8,50 (3,30 - 10,40) | 3,83 | **4,00** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16+20+35 | 1,53 | 1,92 | 3,35 | | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,37) | 930 | 8,40 | 1,92 | 2,39 | 4,19 | | 8,50 (3,30 - 10,40) | 3,95 | **4,00** A+ | 2,15 (0,62 - 2,86) | 1075 | 9,70 |
| 16+20+42 | 1,39 | 1,74 | 3,67 | | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,42) | 930 | 8,40 | 1,74 | 2,18 | 4,58 | | 8,50 (3,30 - 10,50) | 3,95 | **4,00** A+ | 2,15 (0,62 - 2,90) | 1075 | 9,70 |
| 16+20+50 | 1,27 | 1,58 | 3,95 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,58 | 1,98 | 4,94 | | 8,50 (3,20 - 10,60) | 4,23 | **4,00** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16+20+60 | 1,13 | 1,42 | 4,25 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,42 | 1,77 | 5,31 | | 8,50 (3,20 - 10,60) | 4,23 | **4,00** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16+25+25 | 1,60 | 2,50 | 2,50 | | 6,60 (1,90 - 8,00) | 3,73 | **8,00** A+++ | 1,77 (0,27 - 2,46) | 885 | 8,00 | 2,06 | 3,22 | 3,22 | | 8,50 (3,30 - 10,40) | 3,83 | **4,00** A+ | 2,22 (0,63 - 2,93) | 1110 | 10,00 |
| 16+25+35 | 1,43 | 2,24 | 3,13 | | 6,80 (1,90 - 8,00) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,37) | 930 | 8,40 | 1,79 | 2,80 | 3,91 | | 8,50 (3,30 - 10,40) | 3,95 | **4,00** A+ | 2,15 (0,62 - 2,86) | 1075 | 9,70 |
| 16+25+42 | 1,31 | 2,05 | 3,44 | | 6,80 (1,90 - 8,10) | 3,66 | **8,00** A+++ | 1,86 (0,27 - 2,42) | 930 | 8,40 | 1,64 | 2,56 | 4,30 | | 8,50 (3,30 - 10,50) | 3,95 | **4,00** A+ | 2,15 (0,62 - 2,90) | 1075 | 9,70 |
| 16+25+50 | 1,19 | 1,87 | 3,74 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,49 | 2,34 | 4,67 | | 8,50 (3,20 - 10,60) | 4,23 | **4,00** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16+25+60 | 1,08 | 1,68 | 4,04 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,32 - 2,42) | 840 | 7,70 | 1,35 | 2,10 | 5,05 | | 8,50 (3,20 - 10,60) | 4,23 | **4,00** A+ | 2,01 (0,60 - 2,79) | 1005 | 9,10 |
| 16+35+35 | 1,26 | 2,77 | 2,77 | | 6,80 (1,90 - 8,10) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,37) | 910 | 8,20 | 1,58 | 3,46 | 3,46 | | 8,50 (3,30 - 10,50) | 3,99 | **4,00** A+ | 2,13 (0,64 - 2,88) | 1065 | 9,60 |
| 16+35+42 | 1,17 | 2,56 | 3,07 | | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,46 | 3,20 | 3,84 | | 8,50 (3,30 - 10,50) | 4,01 | **4,00** A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 16+35+50 | 1,07 | 2,36 | 3,37 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,34 | 2,95 | 4,21 | | 8,50 (3,20 - 10,60) | 4,27 | **4,00** A+ | 1,99 (0,60 - 2,77) | 995 | 9,00 |
| 16+35+60 | 0,98 | 2,14 | 3,68 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,23 | 2,68 | 4,59 | | 8,50 (3,20 - 10,60) | 4,27 | **4,00** A+ | 1,99 (0,60 - 2,77) | 995 | 9,00 |
| 16+42+42 | 1,08 | 2,86 | 2,86 | | 6,80 (1,90 - 8,20) | 3,74 | **8,00** A+++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,36 | 3,57 | 3,57 | | 8,50 (3,30 - 10,50) | 4,03 | **4,00** A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 16+42+50 | 1,01 | 2,64 | 3,15 | | 6,80 (2,00 - 8,50) | 4,05 | **8,00** A+++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,25 | 3,31 | 3,94 | | 8,50 (3,20 - 10,60) | 4,29 | **4,00** A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R32 combinations table

## Free Multi 4x1 CU-4Z68TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,50kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 20+20+20 | 2,00 | 2,00 | 2,00 | | 6,00 (1,90 - 8,00) | 4,05 | 8,00 A++ | 1,48 (0,27 - 2,41) | 740 | 6,80 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,40) | 3,91 | 4,00 A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20+20+25 | 2,00 | 2,00 | 2,50 | | 6,50 (1,90 - 8,00) | 3,76 | 8,00 A++ | 1,73 (0,27 - 2,41) | 865 | 7,90 | 2,62 | 2,62 | 3,26 | | 8,50 (3,30 - 10,40) | 3,92 | 4,00 A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20+20+35 | 1,81 | 1,81 | 3,18 | | 6,80 (1,90 - 8,00) | 3,66 | 8,00 A++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,27 | 2,27 | 3,96 | | 8,50 (3,30 - 10,40) | 3,95 | 4,00 A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 20+20+42 | 1,66 | 1,66 | 3,48 | | 6,80 (1,90 - 8,10) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,07 | 2,07 | 4,36 | | 8,50 (3,30 - 10,50) | 3,97 | 4,00 A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 20+20+50 | 1,51 | 1,51 | 3,78 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,89 | 1,89 | 4,72 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20+20+60 | 1,36 | 1,36 | 4,08 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,70 | 1,70 | 5,10 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20+25+25 | 1,94 | 2,43 | 2,43 | | 6,80 (1,90 - 8,00) | 3,66 | 8,00 A++ | 1,86 (0,27 - 2,41) | 930 | 8,40 | 2,42 | 3,04 | 3,04 | | 8,50 (3,30 - 10,40) | 3,92 | 4,00 A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 20+25+35 | 1,69 | 2,13 | 2,98 | | 6,80 (1,90 - 8,00) | 3,66 | 8,00 A++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,12 | 2,66 | 3,72 | | 8,50 (3,30 - 10,40) | 3,95 | 4,00 A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 20+25+42 | 1,56 | 1,95 | 3,29 | | 6,80 (1,90 - 8,10) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,95 | 2,44 | 4,11 | | 8,50 (3,30 - 10,50) | 3,97 | 4,00 A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 20+25+50 | 1,43 | 1,79 | 3,58 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,79 | 2,24 | 4,47 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20+25+60 | 1,29 | 1,62 | 3,89 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,62 | 2,02 | 4,86 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 20+35+35 | 1,52 | 2,64 | 2,64 | | 6,80 (1,90 - 8,10) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,33) | 910 | 8,20 | 1,88 | 3,31 | 3,31 | | 8,50 (3,30 - 10,50) | 4,01 | 4,00 A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 20+35+42 | 1,40 | 2,45 | 2,95 | | 6,80 (1,90 - 8,20) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 1,75 | 3,07 | 3,68 | | 8,50 (3,30 - 10,50) | 4,03 | 4,00 A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 20+35+50 | 1,29 | 2,27 | 3,24 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,62 | 2,83 | 4,05 | | 8,50 (3,20 - 10,60) | 4,29 | 4,00 A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 20+35+60 | 1,18 | 2,07 | 3,55 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,48 | 2,59 | 4,43 | | 8,50 (3,20 - 10,60) | 4,29 | 4,00 A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 20+42+42 | 1,30 | 2,75 | 2,75 | | 6,80 (1,90 - 8,20) | 3,84 | 8,00 A++ | 1,77 (0,29 - 2,37) | 885 | 8,00 | 1,64 | 3,43 | 3,43 | | 8,50 (3,30 - 10,50) | 4,05 | 4,00 A+ | 2,10 (0,63 - 2,86) | 1050 | 9,50 |
| 20+42+50 | 1,21 | 2,55 | 3,04 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,52 | 3,19 | 3,79 | | 8,50 (3,20 - 10,60) | 4,31 | 4,00 A+ | 1,97 (0,62 - 2,75) | 985 | 8,90 |
| 25+25+25 | 2,26 | 2,26 | 2,26 | | 6,78 (1,90 - 8,00) | 3,65 | 8,00 A++ | 1,86 (0,27 - 2,41) | 930 | 8,40 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,40) | 3,91 | 4,00 A+ | 2,17 (0,63 - 2,92) | 1085 | 9,80 |
| 25+25+35 | 2,00 | 2,00 | 2,80 | | 6,80 (1,90 - 8,00) | 3,66 | 8,00 A++ | 1,86 (0,27 - 2,32) | 930 | 8,40 | 2,50 | 2,50 | 3,50 | | 8,50 (3,30 - 10,40) | 3,95 | 4,00 A+ | 2,15 (0,62 - 2,85) | 1075 | 9,70 |
| 25+25+42 | 1,85 | 1,85 | 3,10 | | 6,80 (1,90 - 8,10) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,31 | 2,31 | 3,88 | | 8,50 (3,30 - 10,50) | 3,97 | 4,00 A+ | 2,14 (0,62 - 2,89) | 1070 | 9,70 |
| 25+25+50 | 1,70 | 1,70 | 3,40 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 2,13 | 2,13 | 4,24 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 25+25+60 | 1,55 | 1,55 | 3,70 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,38) | 840 | 7,70 | 1,93 | 1,93 | 4,64 | | 8,50 (3,20 - 10,60) | 4,25 | 4,00 A+ | 2,00 (0,60 - 2,78) | 1000 | 9,00 |
| 25+35+35 | 1,78 | 2,51 | 2,51 | | 6,80 (1,90 - 8,10) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,33) | 910 | 8,20 | 2,24 | 3,13 | 3,13 | | 8,50 (3,30 - 10,50) | 4,01 | 4,00 A+ | 2,12 (0,64 - 2,87) | 1060 | 9,60 |
| 25+35+42 | 1,67 | 2,33 | 2,80 | | 6,80 (1,90 - 8,20) | 3,74 | 8,00 A++ | 1,82 (0,29 - 2,42) | 910 | 8,20 | 2,08 | 2,92 | 3,50 | | 8,50 (3,30 - 10,50) | 4,03 | 4,00 A+ | 2,11 (0,64 - 2,86) | 1055 | 9,50 |
| 25+35+50 | 1,55 | 2,16 | 3,09 | | 6,80 (2,00 - 8,50) | 4,05 | 8,00 A++ | 1,68 (0,34 - 2,33) | 840 | 7,70 | 1,93 | 2,70 | 3,87 | | 8,50 (3,20 - 10,60) | 4,29 | 4,00 A+ | 1,98 (0,60 - 2,76) | 990 | 9,00 |
| 25+42+42 | 1,56 | 2,62 | 2,62 | | 6,80 (1,90 - 8,20) | 3,84 | 8,00 A++ | 1,77 (0,29 - 2,37) | 885 | 8,00 | 1,94 | 3,28 | 3,28 | | 8,50 (3,30 - 10,50) | 4,05 | 4,00 A+ | 2,10 (0,63 - 2,86) | 1050 | 9,50 |
| 35+35+35 | 2,26 | 2,26 | 2,26 | | 6,78 (1,90 - 8,20) | 3,83 | 8,00 A++ | 1,77 (0,29 - 2,33) | 885 | 8,00 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,50) | 4,12 | 4,00 A+ | 2,06 (0,63 - 2,85) | 1030 | 9,30 |
| 35+35+42 | 2,13 | 2,13 | 2,54 | | 6,80 (1,90 - 8,20) | 3,84 | 8,00 A++ | 1,77 (0,29 - 2,33) | 885 | 8,00 | 2,66 | 2,66 | 3,18 | | 8,50 (3,30 - 10,50) | 4,15 | 4,00 A+ | 2,05 (0,63 - 2,80) | 1025 | 9,30 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,65 | 1,65 | 1,65 | 1,65 | 6,60 (1,90 - 8,70) | 4,49 | 8,50 A+++ | 1,47 (0,34 - 2,38) | 735 | 6,70 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,00 - 10,60) | 4,44 | 4,20 A+ | 1,91 (0,58 - 2,69) | 955 | 8,60 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,47) | 775 | 7,00 | 2,00 | 2,00 | 2,00 | 2,50 | 8,50 (3,00 - 10,60) | 4,47 | 4,20 A+ | 1,90 (0,58 - 2,68) | 950 | 8,60 |
| 16+16+16+25 | 1,49 | 1,49 | 1,49 | 2,33 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,47) | 775 | 7,00 | 1,86 | 1,86 | 1,86 | 2,92 | 8,50 (3,00 - 10,60) | 4,47 | 4,20 A+ | 1,90 (0,58 - 2,68) | 950 | 8,60 |
| 16+16+16+35 | 1,31 | 1,31 | 1,31 | 2,87 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 1,64 | 1,64 | 1,64 | 3,58 | 8,50 (3,00 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,58 - 2,66) | 940 | 8,50 |
| 16+16+16+42 | 1,21 | 1,21 | 1,21 | 3,17 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,34 - 2,38) | 755 | 6,80 | 1,51 | 1,51 | 1,51 | 3,97 | 8,50 (3,00 - 10,60) | 4,55 | 4,20 A+ | 1,87 (0,58 - 2,65) | 935 | 8,50 |
| 16+16+16+50 | 1,11 | 1,11 | 1,11 | 3,47 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,40 - 2,24) | 755 | 6,80 | 1,39 | 1,39 | 1,39 | 4,33 | 8,50 (3,00 - 10,60) | 4,64 | 4,20 A+ | 1,83 (0,65 - 2,55) | 915 | 8,30 |
| 16+16+16+60 | 1,01 | 1,01 | 1,01 | 3,77 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,40 - 2,24) | 755 | 6,80 | 1,26 | 1,26 | 1,26 | 4,72 | 8,50 (3,00 - 10,60) | 4,64 | 4,20 A+ | 1,83 (0,65 - 2,55) | 915 | 8,30 |
| 16+16+20+20 | 1,51 | 1,51 | 1,89 | 1,89 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,89 | 1,89 | 2,36 | 2,36 | 8,50 (3,10 - 10,60) | 4,50 | 4,20 A+ | 1,89 (0,60 - 2,67) | 945 | 8,50 |
| 16+16+20+25 | 1,41 | 1,41 | 1,77 | 2,21 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,77 | 1,77 | 2,20 | 2,76 | 8,50 (3,10 - 10,60) | 4,50 | 4,20 A+ | 1,89 (0,60 - 2,67) | 945 | 8,50 |
| 16+16+20+35 | 1,25 | 1,25 | 1,56 | 2,74 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,34 - 2,38) | 755 | 6,80 | 1,56 | 1,56 | 1,95 | 3,43 | 8,50 (3,00 - 10,60) | 4,55 | 4,20 A+ | 1,87 (0,58 - 2,65) | 935 | 8,50 |
| 16+16+20+42 | 1,16 | 1,16 | 1,44 | 3,04 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,45 | 1,45 | 1,80 | 3,80 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,60 - 2,64) | 930 | 8,40 |
| 16+16+20+50 | 1,07 | 1,07 | 1,33 | 3,33 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,40 - 2,20) | 755 | 6,80 | 1,33 | 1,33 | 1,67 | 4,17 | 8,50 (3,00 - 10,60) | 4,64 | 4,20 A+ | 1,83 (0,66 - 2,54) | 915 | 8,30 |
| 16+16+20+60 | 0,97 | 0,97 | 1,21 | 3,65 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,40 - 2,20) | 755 | 6,80 | 1,21 | 1,21 | 1,52 | 4,56 | 8,50 (3,00 - 10,60) | 4,64 | 4,20 A+ | 1,83 (0,66 - 2,54) | 915 | 8,30 |
| 16+16+25+25 | 1,33 | 1,33 | 2,07 | 2,07 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,66 | 1,66 | 2,59 | 2,59 | 8,50 (3,10 - 10,60) | 4,50 | 4,20 A+ | 1,89 (0,60 - 2,67) | 945 | 8,50 |
| 16+16+25+35 | 1,18 | 1,18 | 1,85 | 2,59 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,34 - 2,38) | 755 | 6,80 | 1,48 | 1,48 | 2,31 | 3,23 | 8,50 (3,00 - 10,60) | 4,55 | 4,20 A+ | 1,87 (0,58 - 2,65) | 935 | 8,50 |
| 16+16+25+42 | 1,10 | 1,10 | 1,72 | 2,88 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,37 | 1,37 | 2,15 | 3,61 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,60 - 2,64) | 930 | 8,40 |
| 16+16+25+50 | 1,02 | 1,02 | 1,58 | 3,18 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,40 - 2,20) | 755 | 6,80 | 1,27 | 1,27 | 1,99 | 3,97 | 8,50 (3,00 - 10,60) | 4,64 | 4,20 A+ | 1,83 (0,66 - 2,54) | 915 | 8,30 |
| 16+16+35+35 | 1,07 | 1,07 | 2,33 | 2,33 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,33 | 1,33 | 2,92 | 2,92 | 8,50 (3,00 - 10,60) | 4,59 | 4,20 A+ | 1,85 (0,61 - 2,62) | 925 | 8,40 |
| 16+16+35+42 | 1,00 | 1,00 | 2,18 | 2,62 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,25 | 1,25 | 2,72 | 3,28 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 16+20+20+20 | 1,43 | 1,79 | 1,79 | 1,79 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,78 | 2,24 | 2,24 | 2,24 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,67) | 940 | 8,50 |
| 16+20+20+25 | 1,34 | 1,68 | 1,68 | 2,10 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,68 | 2,10 | 2,10 | 2,62 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,67) | 940 | 8,50 |
| 16+20+20+35 | 1,20 | 1,49 | 1,49 | 2,62 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,49 | 1,87 | 1,87 | 3,27 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,60 - 2,64) | 930 | 8,40 |
| 16+20+20+42 | 1,11 | 1,39 | 1,39 | 2,91 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,39 | 1,73 | 1,73 | 3,65 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 16+20+20+50 | 1,03 | 1,28 | 1,28 | 3,21 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,42 - 2,20) | 755 | 6,80 | 1,28 | 1,60 | 1,60 | 4,02 | 8,50 (3,00 - 10,60) | 4,67 | 4,20 A+ | 1,82 (0,68 - 2,53) | 910 | 8,20 |
| 16+20+25+25 | 1,26 | 1,58 | 1,98 | 1,98 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,58 | 1,98 | 2,47 | 2,47 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,67) | 940 | 8,50 |
| 16+20+25+35 | 1,13 | 1,42 | 1,77 | 2,48 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,42 | 1,77 | 2,21 | 3,10 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,60 - 2,64) | 930 | 8,40 |
| 16+20+25+42 | 1,06 | 1,32 | 1,65 | 2,77 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,32 | 1,65 | 2,06 | 3,47 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 16+20+25+50 | 0,98 | 1,23 | 1,53 | 3,06 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,42 - 2,20) | 755 | 6,80 | 1,23 | 1,53 | 1,91 | 3,83 | 8,50 (3,00 - 10,60) | 4,67 | 4,20 A+ | 1,82 (0,68 - 2,53) | 910 | 8,20 |
| 16+20+35+35 | 1,02 | 1,28 | 2,25 | 2,25 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,28 | 1,60 | 2,81 | 2,81 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 16+20+35+42 | 0,96 | 1,20 | 2,11 | 2,53 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,20 | 1,50 | 2,63 | 3,17 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 16+25+25+25 | 1,19 | 1,87 | 1,87 | 1,87 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,43) | 775 | 7,00 | 1,48 | 2,34 | 2,34 | 2,34 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,67) | 940 | 8,50 |
| 16+25+25+35 | 1,08 | 1,68 | 1,68 | 2,36 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,35 | 2,10 | 2,10 | 2,95 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,60 - 2,64) | 930 | 8,40 |
| 16+25+25+42 | 1,01 | 1,57 | 1,57 | 2,65 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,38) | 755 | 6,80 | 1,25 | 1,97 | 1,97 | 3,31 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 16+25+35+35 | 0,98 | 1,54 | 2,14 | 2,14 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,23 | 1,91 | 2,68 | 2,68 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 20+20+20+20 | 1,70 | 1,70 | 1,70 | 1,70 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,10 - 10,60) | 4,51 | 4,20 A+ | 1,88 (0,60 - 2,66) | 940 | 8,50 |
| 20+20+20+25 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 2,00 | 2,00 | 2,00 | 2,50 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,66) | 940 | 8,50 |
| 20+20+20+35 | 1,43 | 1,43 | 1,43 | 2,51 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,79 | 1,79 | 1,79 | 3,13 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 20+20+20+42 | 1,33 | 1,33 | 1,33 | 2,81 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,67 | 1,67 | 1,67 | 3,49 | 8,50 (3,00 - 10,60) | 4,59 | 4,20 A+ | 1,85 (0,61 - 2,62) | 925 | 8,40 |
| 20+20+20+50 | 1,24 | 1,24 | 1,24 | 3,08 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,42 - 2,20) | 755 | 6,80 | 1,55 | 1,55 | 1,55 | 3,85 | 8,50 (3,00 - 10,60) | 4,70 | 4,20 A+ | 1,81 (0,68 - 2,52) | 905 | 8,20 |
| 20+20+25+25 | 1,51 | 1,51 | 1,89 | 1,89 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 1,89 | 1,89 | 2,36 | 2,36 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,66) | 940 | 8,50 |
| 20+20+25+35 | 1,36 | 1,36 | 1,70 | 2,38 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,70 | 1,70 | 2,12 | 2,98 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 20+20+25+42 | 1,27 | 1,27 | 1,59 | 2,67 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,59 | 1,59 | 1,98 | 3,34 | 8,50 (3,00 - 10,60) | 4,59 | 4,20 A+ | 1,85 (0,61 - 2,62) | 925 | 8,40 |
| 20+20+25+50 | 1,18 | 1,18 | 1,48 | 2,96 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,42 - 2,20) | 755 | 6,80 | 1,48 | 1,48 | 1,84 | 3,70 | 8,50 (3,00 - 10,60) | 4,70 | 4,20 A+ | 1,81 (0,68 - 2,52) | 905 | 8,20 |
| 20+20+35+35 | 1,24 | 1,24 | 2,16 | 2,16 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,55 | 1,55 | 2,70 | 2,70 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 20+25+25+25 | 1,43 | 1,79 | 1,79 | 1,79 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 1,78 | 2,24 | 2,24 | 2,24 | 8,50 (3,10 - 10,60) | 4,52 | 4,20 A+ | 1,88 (0,60 - 2,66) | 940 | 8,50 |
| 20+25+25+35 | 1,29 | 1,62 | 1,62 | 2,27 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,62 | 2,02 | 2,02 | 2,84 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |
| 20+25+25+42 | 1,21 | 1,52 | 1,52 | 2,55 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,51 | 1,90 | 1,90 | 3,19 | 8,50 (3,00 - 10,60) | 4,59 | 4,20 A+ | 1,85 (0,61 - 2,62) | 925 | 8,40 |
| 20+25+35+35 | 1,18 | 1,48 | 2,07 | 2,07 | 6,80 (1,90 - 8,80) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,47 | 1,85 | 2,59 | 2,59 | 8,50 (3,00 - 10,60) | 4,62 | 4,60 A++ | 1,84 (0,61 - 2,61) | 920 | 8,30 |
| 25+25+25+25 | 1,70 | 1,70 | 1,70 | 1,70 | 6,80 (1,90 - 8,80) | 4,39 | 8,00 A++ | 1,55 (0,34 - 2,38) | 775 | 7,00 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,10 - 10,60) | 4,51 | 4,20 A+ | 1,88 (0,60 - 2,66) | 940 | 8,50 |
| 25+25+25+35 | 1,55 | 1,55 | 1,55 | 2,15 | 6,80 (1,90 - 8,8 0) | 4,50 | 8,00 A++ | 1,51 (0,37 - 2,33) | 755 | 6,80 | 1,93 | 1,93 | 1,93 | 2,71 | 8,50 (3,00 - 10,60) | 4,57 | 4,20 A+ | 1,86 (0,61 - 2,63) | 930 | 8,40 |

1) Energy Label Scale from A+++ to D.

## Free Multi 4x1 CU-4Z80TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 14,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | 1,60 (1,30 - 2,30) | 4,00 | | 0,40 (0,25 - 0,64) | 200 | 2,00 | 2,60 | | | | 2,60 (1,20 - 3,20) | 4,33 | | 0,60 (0,30 - 0,96) | 300 | 3,00 |
| 20 | 2,00 | | | | 2,00 (1,80 - 2,90) | 4,00 | | 0,50 (0,34 - 0,81) | 250 | 2,50 | 3,20 | | | | 3,20 (1,20 - 4,10) | 4,32 | | 0,74 (0,30 - 1,23) | 370 | 3,70 |
| 25 | 2,50 | | | | 2,50 (1,80 - 2,90) | 3,97 | | 0,63 (0,34 - 0,81) | 315 | 3,20 | 3,60 | | | | 3,60 (1,20 - 4,30) | 3,83 | | 0,94 (0,30 - 1,23) | 470 | 4,70 |
| 35 | 3,50 | | | | 3,50 (1,80 - 4,10) | 3,72 | | 0,94 (0,34 - 1,36) | 470 | 4,50 | 4,50 | | | | 4,50 (1,20 - 5,80) | 3,66 | | 1,23 (0,30 - 2,10) | 615 | 6,00 |
| 42 | 4,20 | | | | 4,20 (1,80 - 4,50) | 3,07 | | 1,37 (0,34 - 1,99) | 685 | 6,40 | 5,60 | | | | 5,60 (1,20 - 6,80) | 3,26 | | 1,72 (0,30 - 2,93) | 860 | 8,00 |
| 50 | 5,00 | | | | 5,00 (1,90 - 5,70) | 3,23 | | 1,55 (0,34 - 2,13) | 775 | 7,20 | 6,80 | | | | 6,80 (1,20 - 6,90) | 3,24 | | 2,10 (0,30 - 2,52) | 1050 | 9,70 |
| 60 | 6,00 | | | | 6,00 (1,90 - 6,20) | 2,96 | | 2,03 (0,34 - 2,33) | 1015 | 9,20 | 8,50 | | | | 8,50 (1,30 - 9,00) | 3,54 | | 2,40 (0,62 - 2,55) | 1200 | 11,10 |
| 71 | 7,10 | | | | 7,10 (2,00 - 7,20) | 2,81 | | 2,53 (0,37 - 2,77) | 1265 | 11,40 | 8,70 | | | | 8,70 (1,40 - 9,20) | 3,41 | | 2,55 (0,68 - 2,72) | 1275 | 11,80 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | | 3,20 (2,40 - 5,80) | 4,38 | **5,60** A+ | 0,73 (0,38 - 1,99) | 365 | 3,70 | 2,60 | 2,60 | | | 5,20 (2,20 - 8,20) | 3,33 | **3,90** A | 1,56 (0,43 - 2,84) | 780 | 7,40 |
| 16 + 20 | 1,60 | 2,00 | | | 3,60 (2,40 - 5,80) | 4,14 | **5,60** A+ | 0,87 (0,38 - 1,99) | 435 | 4,30 | 2,58 | 3,22 | | | 5,80 (2,20 - 8,20) | 3,45 | **3,90** A | 1,68 (0,43 - 2,83) | 840 | 8,00 |
| 16 + 25 | 1,60 | 2,50 | | | 4,10 (2,40 - 5,80) | 3,83 | **5,60** A+ | 1,07 (0,38 - 1,99) | 535 | 5,20 | 2,42 | 3,78 | | | 6,20 (2,20 - 8,20) | 3,41 | **3,90** A | 1,82 (0,43 - 2,83) | 910 | 8,60 |
| 16 + 35 | 1,60 | 3,50 | | | 5,10 (2,40 - 5,80) | 3,45 | **5,60** A+ | 1,48 (0,37 - 1,92) | 740 | 7,20 | 2,23 | 4,87 | | | 7,10 (2,20 - 8,60) | 3,57 | **3,90** A | 1,99 (0,38 - 2,91) | 995 | 9,40 |
| 16 + 42 | 1,60 | 4,20 | | | 5,80 (2,40 - 6,70) | 3,19 | **5,60** A+ | 1,82 (0,37 - 2,48) | 910 | 8,70 | 2,26 | 5,94 | | | 8,20 (2,20 - 9,80) | 3,46 | **3,90** A | 2,37 (0,37 - 3,44) | 1185 | 11,10 |
| 16 + 50 | 1,60 | 5,00 | | | 6,60 (2,40 - 7,20) | 3,20 | **6,10** A++ | 2,06 (0,35 - 2,48) | 1030 | 9,90 | 2,28 | 7,12 | | | 9,40 (2,20 - 10,00) | 3,82 | **4,10** A+ | 2,46 (0,33 - 3,25) | 1230 | 11,60 |
| 16 + 60 | 1,60 | 6,00 | | | 7,60 (2,40 - 8,50) | 2,83 | **6,10** A++ | 2,69 (0,35 - 3,49) | 1345 | 12,90 | 1,98 | 7,42 | | | 9,40 (2,20 - 10,00) | 3,82 | **4,10** A+ | 2,46 (0,33 - 3,25) | 1230 | 11,60 |
| 16 + 71 | 1,47 | 6,53 | | | 8,00 (2,50 - 8,50) | 2,82 | **6,10** A++ | 2,84 (0,38 - 3,34) | 1420 | 13,60 | 1,73 | 7,67 | | | 9,40 (2,20 - 10,30) | 3,92 | **4,10** A+ | 2,40 (0,32 - 3,42) | 1200 | 11,30 |
| 20 + 20 | 2,00 | 2,00 | | | 4,00 (2,40 - 5,80) | 3,96 | **5,60** A+ | 1,01 (0,38 - 1,93) | 505 | 5,00 | 3,20 | 3,20 | | | 6,40 (2,20 - 8,20) | 3,44 | **3,90** A | 1,86 (0,39 - 2,82) | 930 | 8,70 |
| 20 + 25 | 2,00 | 2,50 | | | 4,50 (2,40 - 5,80) | 3,63 | **5,60** A+ | 1,24 (0,38 - 1,93) | 620 | 6,00 | 3,02 | 3,78 | | | 6,80 (2,20 - 8,20) | 3,54 | **3,90** A | 1,92 (0,39 - 2,82) | 960 | 9,00 |
| 20 + 35 | 2,00 | 3,50 | | | 5,50 (2,40 - 5,80) | 3,33 | **5,60** A+ | 1,65 (0,37 - 1,86) | 825 | 8,00 | 2,80 | 4,90 | | | 7,70 (2,20 - 8,60) | 3,55 | **3,90** A | 2,17 (0,37 - 2,85) | 1085 | 10,20 |
| 20 + 42 | 2,00 | 4,20 | | | 6,20 (2,40 - 7,20) | 3,00 | **5,60** A+ | 2,07 (0,37 - 2,90) | 1035 | 9,90 | 2,84 | 5,96 | | | 8,80 (2,20 - 10,00) | 3,64 | **3,90** A | 2,42 (0,37 - 3,55) | 1210 | 11,40 |
| 20 + 50 | 2,00 | 5,00 | | | 7,00 (2,40 - 8,10) | 3,17 | **6,10** A++ | 2,21 (0,35 - 3,10) | 1105 | 10,60 | 2,69 | 6,71 | | | 9,40 (2,20 - 10,00) | 3,84 | **4,10** A+ | 2,45 (0,32 - 3,23) | 1225 | 11,50 |
| 20 + 60 | 2,00 | 6,00 | | | 8,00 (2,40 - 8,50) | 2,75 | **6,10** A++ | 2,91 (0,35 - 3,49) | 1455 | 13,90 | 2,35 | 7,05 | | | 9,40 (2,20 - 10,00) | 3,84 | **4,10** A+ | 2,45 (0,32 - 3,23) | 1225 | 11,50 |
| 20 + 71 | 1,76 | 6,24 | | | 8,00 (2,50 - 8,50) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,34) | 1385 | 13,30 | 2,07 | 7,33 | | | 9,40 (2,20 - 10,30) | 3,93 | **4,10** A+ | 2,39 (0,32 - 3,40) | 1195 | 11,20 |
| 25 + 25 | 2,50 | 2,50 | | | 5,00 (2,40 - 5,80) | 3,50 | **5,60** A+ | 1,43 (0,38 - 1,93) | 715 | 6,90 | 3,60 | 3,60 | | | 7,20 (2,20 - 8,60) | 3,51 | **3,90** A | 2,05 (0,39 - 2,93) | 1025 | 9,60 |
| 25 + 35 | 2,50 | 3,50 | | | 6,00 (2,40 - 6,70) | 3,09 | **5,60** A+ | 1,94 (0,37 - 2,48) | 970 | 9,30 | 3,37 | 4,73 | | | 8,10 (2,20 - 9,80) | 3,49 | **3,90** A | 2,32 (0,37 - 3,44) | 1160 | 10,90 |
| 25 + 42 | 2,50 | 4,20 | | | 6,70 (2,40 - 7,20) | 2,78 | **5,60** A+ | 2,41 (0,37 - 2,90) | 1205 | 11,50 | 3,43 | 5,77 | | | 9,20 (2,20 - 10,00) | 3,58 | **3,90** A | 2,57 (0,37 - 3,55) | 1285 | 12,10 |
| 25 + 50 | 2,50 | 5,00 | | | 7,50 (2,40 - 8,50) | 2,94 | **6,10** A++ | 2,55 (0,35 - 3,49) | 1275 | 12,20 | 3,13 | 6,27 | | | 9,40 (2,20 - 10,00) | 3,84 | **4,10** A+ | 2,45 (0,32 - 3,23) | 1225 | 11,50 |
| 25 + 60 | 2,35 | 5,65 | | | 8,00 (2,50 - 8,50) | 2,75 | **6,10** A++ | 2,91 (0,39 - 3,49) | 1455 | 13,90 | 2,76 | 6,64 | | | 9,40 (2,20 - 10,00) | 3,84 | **4,10** A+ | 2,45 (0,32 - 3,23) | 1225 | 11,50 |
| 25 + 71 | 2,08 | 5,92 | | | 8,00 (2,50 - 8,50) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,34) | 1385 | 13,30 | 2,45 | 6,95 | | | 9,40 (2,20 - 10,30) | 3,93 | **4,10** A+ | 2,39 (0,32 - 3,40) | 1195 | 11,20 |
| 35 + 35 | 3,50 | 3,50 | | | 7,00 (2,40 - 8,10) | 2,75 | **5,60** A+ | 2,55 (0,37 - 3,63) | 1275 | 12,20 | 4,50 | 4,50 | | | 9,00 (2,20 - 10,00) | 3,67 | **3,90** A | 2,45 (0,36 - 3,47) | 1225 | 11,50 |
| 35 + 42 | 3,50 | 4,20 | | | 7,70 (2,40 - 8,50) | 2,53 | **5,60** A+ | 3,04 (0,37 - 4,12) | 1520 | 14,60 | 4,27 | 5,13 | | | 9,40 (2,20 - 10,00) | 3,63 | **3,90** A | 2,59 (0,35 - 3,46) | 1295 | 12,20 |
| 35 + 50 | 3,29 | 4,71 | | | 8,00 (2,50 - 8,50) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,34) | 1385 | 13,30 | 3,87 | 5,53 | | | 9,40 (2,20 - 10,00) | 3,95 | **4,10** A+ | 2,38 (0,32 - 3,20) | 1190 | 11,20 |
| 35 + 60 | 2,95 | 5,05 | | | 8,00 (2,50 - 8,50) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,34) | 1385 | 13,30 | 3,46 | 5,94 | | | 9,40 (2,20 - 10,30) | 3,95 | **4,10** A+ | 2,38 (0,32 - 3,32) | 1190 | 11,20 |
| 35 + 71 | 2,64 | 5,36 | | | 8,00 (2,50 - 8,60) | 2,96 | **6,10** A++ | 2,70 (0,38 - 3,34) | 1350 | 12,90 | 3,10 | 6,30 | | | 9,40 (2,20 - 10,50) | 3,98 | **4,10** A+ | 2,36 (0,31 - 3,43) | 1180 | 11,10 |
| 42 + 42 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,50) | 2,40 | **5,60** A+ | 3,34 (0,40 - 4,04) | 1670 | 16,00 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,00) | 3,64 | **3,90** A | 2,58 (0,35 - 3,45) | 1290 | 12,10 |
| 42 + 50 | 3,65 | 4,35 | | | 8,00 (2,50 - 8,50) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,34) | 1385 | 13,30 | 4,29 | 5,11 | | | 9,40 (2,20 - 10,30) | 3,98 | **4,10** A+ | 2,36 (0,32 - 3,31) | 1180 | 11,10 |
| 42 + 60 | 3,29 | 4,71 | | | 8,00 (2,50 - 8,60) | 2,89 | **6,10** A++ | 2,77 (0,38 - 3,42) | 1385 | 13,30 | 3,87 | 5,53 | | | 9,40 (2,20 - 10,30) | 3,98 | **4,10** A+ | 2,36 (0,32 - 3,31) | 1180 | 11,10 |
| 42 + 71 | 2,97 | 5,03 | | | 8,00 (2,50 - 8,60) | 2,96 | **6,10** A++ | 2,70 (0,38 - 3,26) | 1350 | 12,90 | 3,49 | 5,91 | | | 9,40 (2,20 - 10,50) | 4,00 | **4,10** A+ | 2,35 (0,31 - 3,42) | 1175 | 11,00 |
| 50 + 50 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,60) | 3,31 | **6,10** A++ | 2,42 (0,38 - 2,95) | 1210 | 11,60 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,30) | 4,27 | **4,10** A+ | 2,20 (0,31 - 3,09) | 1100 | 10,30 |
| 50 + 60 | 3,64 | 4,36 | | | 8,00 (2,50 - 8,60) | 3,31 | **6,10** A++ | 2,42 (0,38 - 2,95) | 1210 | 11,60 | 4,27 | 5,13 | | | 9,40 (2,20 - 10,50) | 4,27 | **4,10** A+ | 2,20 (0,31 - 3,15) | 1100 | 10,30 |
| 50 + 71 | 3,31 | 4,69 | | | 8,00 (2,50 - 8,60) | 3,40 | **6,10** A++ | 2,35 (0,38 - 2,88) | 1175 | 11,20 | 3,88 | 5,52 | | | 9,40 (2,20 - 10,50) | 4,31 | **4,10** A+ | 2,18 (0,31 - 3,13) | 1090 | 10,20 |
| 60 + 60 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,60) | 3,31 | **6,10** A++ | 2,42 (0,38 - 2,95) | 1210 | 11,60 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,50) | 4,27 | **4,10** A+ | 2,20 (0,31 - 3,15) | 1100 | 10,30 |
| 60 + 71 | 3,66 | 4,34 | | | 8,00 (2,50 - 8,60) | 3,40 | **6,10** A++ | 2,35 (0,38 - 2,88) | 1175 | 11,20 | 4,31 | 5,09 | | | 9,40 (2,20 - 10,50) | 4,31 | **4,10** A+ | 2,18 (0,31 - 3,13) | 1090 | 10,20 |
| 71 + 71 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,60) | 3,51 | **6,10** A++ | 2,28 (0,41 - 2,80) | 1140 | 10,90 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,50) | 4,33 | **4,10** A+ | 2,17 (0,32 - 3,12) | 1085 | 10,20 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | | 4,80 (3,00 - 8,50) | 4,44 | **7,40** A++ | 1,08 (0,49 - 3,11) | 540 | 5,30 | 2,60 | 2,60 | 2,60 | | 7,80 (3,20 - 10,40) | 4,15 | **4,20** A+ | 1,88 (0,50 - 3,34) | 940 | 8,80 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | | 5,20 (3,00 - 8,50) | 4,41 | **7,40** A++ | 1,18 (0,49 - 3,11) | 590 | 5,80 | 2,58 | 2,58 | 3,24 | | 8,40 (3,20 - 10,40) | 3,98 | **4,20** A+ | 2,11 (0,50 - 3,26) | 1055 | 9,90 |
| 16 + 16 + 25 | 1,60 | 1,60 | 2,50 | | 5,70 (3,00 - 8,50) | 4,10 | **7,40** A++ | 1,39 (0,49 - 3,11) | 695 | 6,70 | 2,47 | 2,47 | 3,86 | | 8,80 (3,20 - 10,40) | 4,21 | **4,20** A+ | 2,09 (0,50 - 3,26) | 1045 | 9,80 |
| 16 + 16 + 35 | 1,60 | 1,60 | 3,50 | | 6,70 (3,00 - 8,50) | 3,92 | **7,40** A++ | 1,71 (0,48 - 3,03) | 855 | 8,30 | 2,24 | 2,24 | 4,92 | | 9,40 (3,20 - 10,40) | 4,18 | **4,30** A+ | 2,25 (0,49 - 3,23) | 1125 | 10,60 |
| 16 + 16 + 42 | 1,60 | 1,60 | 4,20 | | 7,40 (3,00 - 8,50) | 3,57 | **7,40** A++ | 2,07 (0,48 - 2,95) | 1035 | 9,90 | 2,03 | 2,03 | 5,34 | | 9,40 (3,20 - 10,40) | 4,20 | **4,30** A+ | 2,24 (0,49 - 3,21) | 1120 | 10,50 |
| 16 + 16 + 50 | 1,56 | 1,56 | 4,88 | | 8,00 (3,00 - 8,60) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,73) | 1050 | 10,10 | 1,83 | 1,83 | 5,74 | | 9,40 (3,20 - 10,40) | 4,41 | **4,40** A+ | 2,13 (0,48 - 3,00) | 1065 | 10,00 |
| 16 + 16 + 60 | 1,39 | 1,39 | 5,22 | | 8,00 (3,00 - 8,60) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,73) | 1050 | 10,10 | 1,63 | 1,63 | 6,14 | | 9,40 (3,20 - 10,50) | 4,41 | **4,40** A+ | 2,13 (0,48 - 3,06) | 1065 | 10,00 |
| 16 + 16 + 71 | 1,24 | 1,24 | 5,52 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,46 | 1,46 | 6,48 | | 9,40 (3,20 - 10,50) | 4,43 | **4,40** A+ | 2,12 (0,51 - 3,04) | 1060 | 10,00 |
| 16 + 20 + 20 | 1,60 | 2,00 | 2,00 | | 5,60 (3,00 - 8,50) | 4,18 | **7,40** A++ | 1,34 (0,49 - 3,03) | 670 | 6,50 | 2,58 | 3,21 | 3,21 | | 9,00 (3,20 - 10,40) | 4,23 | **4,20** A+ | 2,13 (0,49 - 3,25) | 1065 | 10,00 |
| 16 + 20 + 25 | 1,60 | 2,00 | 2,50 | | 6,10 (3,00 - 8,50) | 3,94 | **7,40** A++ | 1,55 (0,49 - 3,03) | 775 | 7,50 | 2,47 | 3,08 | 3,85 | | 9,40 (3,20 - 10,40) | 4,14 | **4,30** A+ | 2,27 (0,49 - 3,25) | 1135 | 10,70 |
| 16 + 20 + 35 | 1,60 | 2,00 | 3,50 | | 7,10 (3,00 - 8,50) | 3,78 | **7,40** A++ | 1,88 (0,48 - 2,95) | 940 | 9,00 | 2,12 | 2,65 | 4,63 | | 9,40 (3,20 - 10,40) | 4,20 | **4,30** A+ | 2,24 (0,49 - 3,21) | 1120 | 10,50 |
| 16 + 20 + 42 | 1,60 | 2,00 | 4,20 | | 7,80 (3,00 - 8,50) | 3,59 | **7,40** A++ | 2,17 (0,48 - 2,95) | 1085 | 10,40 | 1,93 | 2,41 | 5,06 | | 9,40 (3,20 - 10,40) | 4,22 | **4,30** A+ | 2,23 (0,49 - 3,20) | 1115 | 10,50 |
| 16 + 20 + 50 | 1,49 | 1,86 | 4,65 | | 8,00 (3,00 - 8,60) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,73) | 1050 | 10,10 | 1,75 | 2,19 | 5,46 | | 9,40 (3,20 - 10,50) | 4,43 | **4,40** A+ | 2,12 (0,51 - 3,05) | 1060 | 10,00 |
| 16 + 20 + 60 | 1,33 | 1,67 | 5,00 | | 8,00 (3,00 - 8,60) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,73) | 1050 | 10,10 | 1,57 | 1,96 | 5,87 | | 9,40 (3,20 - 10,50) | 4,43 | **4,40** A+ | 2,12 (0,51 - 3,05) | 1060 | 10,00 |
| 16 + 20 + 71 | 1,20 | 1,50 | 5,30 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,41 | 1,76 | 6,23 | | 9,40 (3,20 - 10,50) | 4,45 | **4,40** A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 16 + 25 + 25 | 1,60 | 2,50 | 2,50 | | 6,60 (3,00 - 8,50) | 3,69 | **7,40** A++ | 1,79 (0,49 - 3,03) | 895 | 8,60 | 2,28 | 3,56 | 3,56 | | 9,40 (3,20 - 10,40) | 4,14 | **4,30** A+ | 2,27 (0,49 - 3,25) | 1135 | 10,70 |
| 16 + 25 + 35 | 1,60 | 2,50 | 3,50 | | 7,60 (3,00 - 8,50) | 3,47 | **7,40** A++ | 2,19 (0,48 - 2,95) | 1095 | 10,50 | 1,98 | 3,09 | 4,33 | | 9,40 (3,20 - 10,40) | 4,20 | **4,30** A+ | 2,24 (0,49 - 3,21) | 1120 | 10,50 |
| 16 + 25 + 42 | 1,54 | 2,41 | 4,05 | | 8,00 (3,00 - 8,60) | 3,49 | **7,40** A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 1,81 | 2,83 | 4,76 | | 9,40 (3,20 - 10,40) | 4,22 | **4,40** A+ | 2,23 (0,49 - 3,20) | 1115 | 10,50 |
| 16 + 25 + 50 | 1,41 | 2,20 | 4,39 | | 8,00 (3,00 - 8,60) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,73) | 1050 | 10,10 | 1,65 | 2,58 | 5,17 | | 9,40 (3,20 - 10,50) | 4,43 | **4,40** A+ | 2,12 (0,51 - 3,05) | 1060 | 10,00 |
| 16 + 25 + 60 | 1,27 | 1,98 | 4,75 | | 8,00 (3,00 - 8,80) | 3,81 | **7,40** A++ | 2,10 (0,52 - 2,80) | 1050 | 10,10 | 1,49 | 2,33 | 5,58 | | 9,40 (3,20 - 10,50) | 4,43 | **4,40** A+ | 2,12 (0,51 - 3,05) | 1060 | 10,00 |
| 16 + 25 + 71 | 1,14 | 1,79 | 5,07 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,34 | 2,10 | 5,96 | | 9,40 (3,20 - 10,60) | 4,45 | **4,40** A+ | 2,11 (0,51 - 3,09) | 1055 | 9,90 |
| 16 + 35 + 35 | 1,48 | 3,26 | 3,26 | | 8,00 (3,00 - 8,60) | 3,59 | **7,40** A++ | 2,23 (0,48 - 2,95) | 1115 | 10,70 | 1,74 | 3,83 | 3,83 | | 9,40 (3,20 - 10,50) | 4,25 | **4,40** A+ | 2,21 (0,48 - 3,24) | 1105 | 10,40 |
| 16 + 35 + 42 | 1,38 | 3,01 | 3,61 | | 8,00 (3,00 - 8,60) | 3,59 | **7,40** A++ | 2,23 (0,48 - 2,95) | 1115 | 10,70 | 1,62 | 3,54 | 4,24 | | 9,40 (3,20 - 10,50) | 4,27 | **4,40** A+ | 2,20 (0,48 - 3,16) | 1100 | 10,30 |
| 16 + 35 + 50 | 1,27 | 2,77 | 3,96 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,49 | 3,26 | 4,65 | | 9,40 (3,20 - 10,50) | 4,50 | **4,40** A+ | 2,09 (0,51 - 3,01) | 1045 | 9,80 |
| 16 + 35 + 60 | 1,15 | 2,52 | 4,33 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,35 | 2,96 | 5,09 | | 9,40 (3,20 - 10,60) | 4,50 | **4,40** A+ | 2,09 (0,51 - 3,07) | 1045 | 9,80 |
| 16 + 35 + 71 | 1,05 | 2,30 | 4,65 | | 8,00 (3,00 - 9,00) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,23 | 2,70 | 5,47 | | 9,40 (3,20 - 10,60) | 4,52 | **4,40** A+ | 2,08 (0,51 - 3,06) | 1040 | 9,80 |
| 16 + 42 + 42 | 1,28 | 3,36 | 3,36 | | 8,00 (3,00 - 8,80) | 3,59 | **7,40** A++ | 2,23 (0,48 - 3,10) | 1115 | 10,70 | 1,50 | 3,95 | 3,95 | | 9,40 (3,20 - 10,50) | 4,29 | **4,40** A+ | 2,19 (0,48 - 3,15) | 1095 | 10,30 |
| 16 + 42 + 50 | 1,19 | 3,11 | 3,70 | | 8,00 (3,00 - 8,80) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,39 | 3,66 | 4,35 | | 9,40 (3,20 - 10,50) | 4,50 | **4,40** A+ | 2,09 (0,51 - 3,00) | 1045 | 9,80 |
| 16 + 42 + 60 | 1,08 | 2,85 | 4,07 | | 8,00 (3,00 - 9,00) | 3,92 | **7,40** A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,27 | 3,35 | 4,78 | | 9,40 (3,20 - 10,60) | 4,50 | **4,40** A+ | 2,09 (0,51 - 3,06) | 1045 | 9,80 |
| 16 + 42 + 71 | 0,99 | 2,60 | 4,41 | | 8,00 (3,00 - 9,00) | 4,04 | **7,40** A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 1,17 | 3,06 | 5,17 | | 9,40 (3,20 - 10,60) | 4,54 | **4,40** A+ | 2,07 (0,51 - 3,04) | 1035 | 9,70 |
| 16 + 50 + 50 | 1,10 | 3,45 | 3,45 | | 8,00 (3,00 - 8,80) | 4,17 | **7,40** A++ | 1,92 (0,57 - 2,58) | 960 | 9,20 | 1,30 | 4,05 | 4,05 | | 9,40 (3,20 - 10,60) | 4,70 | **4,40** A+ | 2,00 (0,57 - 2,93) | 1000 | 9,40 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R32 combinations table

## Free Multi 4x1 CU-4Z80TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 14,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+50+60 | 1,02 | 3,17 | 3,81 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,19 | 3,73 | 4,48 | | 9,40 (3,20 - 10,60) | 4,70 | 4,40 A+ | 2,00 (0,57 - 2,93) | 1000 | 9,40 |
| 16+50+71 | 0,93 | 2,92 | 4,15 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,10 | 3,43 | 4,87 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 16+60+60 | 0,94 | 3,53 | 3,53 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,10 | 4,15 | 4,15 | | 9,40 (3,20 - 10,60) | 4,70 | 4,40 A+ | 2,00 (0,57 - 2,93) | 1000 | 9,40 |
| 16+60+71 | 0,87 | 3,27 | 3,86 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,02 | 3,84 | 4,54 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 20+20+20 | 2,00 | 2,00 | 2,00 | | 6,00 (3,00 - 8,50) | 4,00 | 7,40 A++ | 1,50 (0,48 - 3,03) | 750 | 7,30 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,40) | 4,15 | 4,30 A+ | 2,26 (0,49 - 3,24) | 1130 | 10,60 |
| 20+20+25 | 2,00 | 2,00 | 2,50 | | 6,50 (3,00 - 8,50) | 3,76 | 7,40 A++ | 1,73 (0,48 - 3,03) | 865 | 8,40 | 2,89 | 2,89 | 3,62 | | 9,40 (3,20 - 10,40) | 4,16 | 4,30 A+ | 2,26 (0,49 - 3,24) | 1130 | 10,60 |
| 20+20+35 | 2,00 | 2,00 | 3,50 | | 7,50 (3,00 - 8,50) | 3,64 | 7,40 A++ | 2,06 (0,48 - 2,95) | 1030 | 9,90 | 2,51 | 2,51 | 4,38 | | 9,40 (3,20 - 10,40) | 4,22 | 4,30 A+ | 2,23 (0,49 - 3,20) | 1115 | 10,50 |
| 20+20+42 | 1,95 | 1,95 | 4,10 | | 8,00 (3,00 - 8,60) | 3,49 | 7,40 A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 2,29 | 2,29 | 4,82 | | 9,40 (3,20 - 10,40) | 4,23 | 4,40 A+ | 2,22 (0,48 - 3,19) | 1110 | 10,40 |
| 20+20+50 | 1,78 | 1,78 | 4,44 | | 8,00 (3,00 - 8,60) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,65) | 1020 | 9,80 | 2,09 | 2,09 | 5,22 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 20+20+60 | 1,60 | 1,60 | 4,80 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,88 | 1,88 | 5,64 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 20+20+71 | 1,44 | 1,44 | 5,12 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,72) | 1020 | 9,80 | 1,69 | 1,69 | 6,02 | | 9,40 (3,20 - 10,60) | 4,48 | 4,40 A+ | 2,10 (0,51 - 3,08) | 1050 | 9,90 |
| 20+25+25 | 2,00 | 2,50 | 2,50 | | 7,00 (3,00 - 8,50) | 3,70 | 7,40 A++ | 1,89 (0,48 - 3,03) | 945 | 9,00 | 2,68 | 3,36 | 3,36 | | 9,40 (3,20 - 10,40) | 4,16 | 4,30 A+ | 2,26 (0,49 - 3,24) | 1130 | 10,60 |
| 20+25+35 | 2,00 | 2,50 | 3,50 | | 8,00 (3,00 - 8,60) | 3,49 | 7,40 A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 2,35 | 2,94 | 4,11 | | 9,40 (3,20 - 10,40) | 4,22 | 4,40 A+ | 2,23 (0,49 - 3,20) | 1115 | 10,50 |
| 20+25+42 | 1,84 | 2,30 | 3,86 | | 8,00 (3,00 - 8,60) | 3,49 | 7,40 A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 2,16 | 2,70 | 4,54 | | 9,40 (3,20 - 10,50) | 4,23 | 4,40 A+ | 2,22 (0,48 - 3,25) | 1110 | 10,40 |
| 20+25+50 | 1,68 | 2,11 | 4,21 | | 8,00 (3,00 - 8,60) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,65) | 1020 | 9,80 | 1,98 | 2,47 | 4,95 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 20+25+60 | 1,52 | 1,90 | 4,58 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,79 | 2,24 | 5,37 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 20+25+71 | 1,38 | 1,72 | 4,90 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,72) | 1020 | 9,80 | 1,62 | 2,03 | 5,75 | | 9,40 (3,20 - 10,60) | 4,48 | 4,40 A+ | 2,10 (0,51 - 3,08) | 1050 | 9,90 |
| 20+35+35 | 1,78 | 3,11 | 3,11 | | 8,00 (3,00 - 8,60) | 3,59 | 7,40 A++ | 2,23 (0,48 - 2,95) | 1115 | 10,70 | 2,08 | 3,66 | 3,66 | | 9,40 (3,20 - 10,50) | 4,27 | 4,40 A+ | 2,20 (0,48 - 3,16) | 1100 | 10,30 |
| 20+35+42 | 1,65 | 2,89 | 3,46 | | 8,00 (3,00 - 8,60) | 3,59 | 7,40 A++ | 2,23 (0,48 - 2,95) | 1115 | 10,70 | 1,94 | 3,39 | 4,07 | | 9,40 (3,20 - 10,50) | 4,29 | 4,40 A+ | 2,19 (0,48 - 3,15) | 1095 | 10,30 |
| 20+35+50 | 1,52 | 2,67 | 3,81 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,79 | 3,13 | 4,48 | | 9,40 (3,20 - 10,50) | 4,50 | 4,40 A+ | 2,09 (0,51 - 3,00) | 1045 | 9,80 |
| 20+35+60 | 1,39 | 2,43 | 4,18 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 1,63 | 2,86 | 4,91 | | 9,40 (3,20 - 10,60) | 4,50 | 4,40 A+ | 2,09 (0,51 - 3,06) | 1045 | 9,80 |
| 20+35+71 | 1,27 | 2,22 | 4,51 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 1,49 | 2,61 | 5,30 | | 9,40 (3,20 - 10,60) | 4,54 | 4,40 A+ | 2,07 (0,51 - 3,04) | 1035 | 9,70 |
| 20+42+42 | 1,54 | 3,23 | 3,23 | | 8,00 (3,00 - 8,80) | 3,59 | 7,40 A++ | 2,23 (0,48 - 3,03) | 1115 | 10,70 | 1,80 | 3,80 | 3,80 | | 9,40 (3,20 - 10,50) | 4,31 | 4,40 A+ | 2,18 (0,48 - 3,14) | 1090 | 10,20 |
| 20+42+50 | 1,43 | 3,00 | 3,57 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,72) | 1020 | 9,80 | 1,68 | 3,53 | 4,19 | | 9,40 (3,20 - 10,60) | 4,52 | 4,40 A+ | 2,08 (0,51 - 3,05) | 1040 | 9,80 |
| 20+42+60 | 1,31 | 2,75 | 3,94 | | 8,00 (3,00 - 9,00) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,54 | 3,24 | 4,62 | | 9,40 (3,20 - 10,60) | 4,52 | 4,40 A+ | 2,08 (0,51 - 3,05) | 1040 | 9,80 |
| 20+42+71 | 1,20 | 2,53 | 4,27 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 1,41 | 2,97 | 5,02 | | 9,40 (3,20 - 10,60) | 4,54 | 4,40 A+ | 2,07 (0,52 - 3,03) | 1035 | 9,70 |
| 20+50+50 | 1,33 | 3,33 | 3,33 | | 7,99 (3,00 - 9,00) | 4,16 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,56 | 3,92 | 3,92 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 20+50+60 | 1,23 | 3,08 | 3,69 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,45 | 3,62 | 4,33 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 20+50+71 | 1,13 | 2,84 | 4,03 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,33 | 3,33 | 4,74 | | 9,40 (3,20 - 10,60) | 4,75 | 4,40 A+ | 1,98 (0,60 - 2,91) | 990 | 9,30 |
| 20+60+60 | 1,14 | 3,43 | 3,43 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,34 | 4,03 | 4,03 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 25+25+25 | 2,50 | 2,50 | 2,50 | | 7,50 (3,00 - 8,50) | 3,52 | 7,40 A++ | 2,13 (0,48 - 3,03) | 1065 | 10,20 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,40) | 4,15 | 4,30 A+ | 2,26 (0,49 - 3,24) | 1130 | 10,60 |
| 25+25+35 | 2,35 | 2,35 | 3,30 | | 8,00 (3,00 - 8,60) | 3,49 | 7,40 A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 2,76 | 2,76 | 3,88 | | 9,40 (3,20 - 10,40) | 4,22 | 4,40 A+ | 2,23 (0,49 - 3,20) | 1115 | 10,50 |
| 25+25+42 | 2,17 | 2,17 | 3,66 | | 8,00 (3,00 - 8,60) | 3,49 | 7,40 A++ | 2,29 (0,48 - 3,03) | 1145 | 11,00 | 2,55 | 2,55 | 4,30 | | 9,40 (3,20 - 10,50) | 4,23 | 4,40 A+ | 2,22 (0,48 - 3,25) | 1110 | 10,40 |
| 25+25+50 | 2,00 | 2,00 | 4,00 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 2,35 | 2,35 | 4,70 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 25+25+60 | 1,82 | 1,82 | 4,36 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 2,14 | 2,14 | 5,12 | | 9,40 (3,20 - 10,50) | 4,45 | 4,40 A+ | 2,11 (0,51 - 3,03) | 1055 | 9,90 |
| 25+25+71 | 1,65 | 1,65 | 4,70 | | 8,00 (3,00 - 9,00) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,94 | 1,94 | 5,52 | | 9,40 (3,20 - 10,60) | 4,48 | 4,40 A+ | 2,10 (0,51 - 3,08) | 1050 | 9,90 |
| 25+35+35 | 2,10 | 2,95 | 2,95 | | 8,00 (3,00 - 8,60) | 3,59 | 7,40 A++ | 2,23 (0,48 - 2,95) | 1115 | 10,70 | 2,48 | 3,46 | 3,46 | | 9,40 (3,20 - 10,50) | 4,27 | 4,40 A+ | 2,20 (0,48 - 3,16) | 1100 | 10,30 |
| 25+35+42 | 1,96 | 2,75 | 3,29 | | 8,00 (3,00 - 8,80) | 3,59 | 7,40 A++ | 2,23 (0,48 - 3,10) | 1115 | 10,70 | 2,30 | 3,23 | 3,87 | | 9,40 (3,20 - 10,50) | 4,29 | 4,40 A+ | 2,19 (0,48 - 3,15) | 1095 | 10,30 |
| 25+35+50 | 1,82 | 2,55 | 3,63 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,80) | 1020 | 9,80 | 2,14 | 2,99 | 4,27 | | 9,40 (3,20 - 10,50) | 4,50 | 4,40 A+ | 2,09 (0,51 - 3,00) | 1045 | 9,80 |
| 25+35+60 | 1,67 | 2,33 | 4,00 | | 8,00 (3,00 - 9,00) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,96 | 2,74 | 4,70 | | 9,40 (3,20 - 10,60) | 4,50 | 4,40 A+ | 2,09 (0,51 - 3,06) | 1045 | 9,80 |
| 25+35+71 | 1,53 | 2,14 | 4,33 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 1,79 | 2,51 | 5,10 | | 9,40 (3,20 - 10,60) | 4,54 | 4,40 A+ | 2,07 (0,51 - 3,04) | 1035 | 9,70 |
| 25+42+42 | 1,84 | 3,08 | 3,08 | | 8,00 (3,00 - 8,80) | 3,59 | 7,40 A++ | 2,23 (0,48 - 3,03) | 1115 | 10,70 | 2,16 | 3,62 | 3,62 | | 9,40 (3,20 - 10,50) | 4,31 | 4,40 A+ | 2,18 (0,48 - 3,14) | 1090 | 10,20 |
| 25+42+50 | 1,71 | 2,87 | 3,42 | | 8,00 (3,00 - 8,80) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,72) | 1020 | 9,80 | 2,01 | 3,37 | 4,02 | | 9,40 (3,20 - 10,60) | 4,52 | 4,40 A+ | 2,08 (0,51 - 3,05) | 1040 | 9,80 |
| 25+42+60 | 1,57 | 2,65 | 3,78 | | 8,00 (3,00 - 9,00) | 3,92 | 7,40 A++ | 2,04 (0,52 - 2,87) | 1020 | 9,80 | 1,85 | 3,11 | 4,44 | | 9,40 (3,20 - 10,60) | 4,52 | 4,40 A+ | 2,08 (0,51 - 3,05) | 1040 | 9,80 |
| 25+42+71 | 1,45 | 2,43 | 4,12 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 1,70 | 2,86 | 4,84 | | 9,40 (3,20 - 10,60) | 4,54 | 4,40 A+ | 2,07 (0,52 - 3,03) | 1035 | 9,70 |
| 25+50+50 | 1,60 | 3,20 | 3,20 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,88 | 3,76 | 3,76 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 25+50+60 | 1,48 | 2,96 | 3,56 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,74 | 3,48 | 4,18 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 25+50+71 | 1,37 | 2,74 | 3,89 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,61 | 3,22 | 4,57 | | 9,40 (3,20 - 10,60) | 4,75 | 4,40 A+ | 1,98 (0,60 - 2,91) | 990 | 9,30 |
| 25+60+60 | 1,38 | 3,31 | 3,31 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 1,62 | 3,89 | 3,89 | | 9,40 (3,20 - 10,60) | 4,72 | 4,40 A+ | 1,99 (0,59 - 2,92) | 995 | 9,40 |
| 35+35+35 | 2,66 | 2,66 | 2,66 | | 7,98 (3,00 - 8,80) | 3,68 | 7,40 A++ | 2,17 (0,48 - 3,03) | 1085 | 10,40 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,50) | 4,31 | 4,40 A+ | 2,18 (0,48 - 3,13) | 1090 | 10,20 |
| 35+35+42 | 2,50 | 2,50 | 3,00 | | 8,00 (3,00 - 8,80) | 3,69 | 7,40 A++ | 2,17 (0,48 - 3,03) | 1085 | 10,40 | 2,94 | 2,94 | 3,52 | | 9,40 (3,20 - 10,60) | 4,33 | 4,40 A+ | 2,17 (0,48 - 3,17) | 1085 | 10,20 |
| 35+35+50 | 2,33 | 2,33 | 3,33 | | 7,99 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,87) | 990 | 9,50 | 2,74 | 2,74 | 3,92 | | 9,40 (3,20 - 10,60) | 4,56 | 4,40 A+ | 2,06 (0,52 - 3,03) | 1030 | 9,70 |
| 35+35+60 | 2,15 | 2,15 | 3,70 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,87) | 990 | 9,50 | 2,53 | 2,53 | 4,34 | | 9,40 (3,20 - 10,60) | 4,56 | 4,40 A+ | 2,06 (0,52 - 3,03) | 1030 | 9,70 |
| 35+35+71 | 1,99 | 1,99 | 4,02 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 2,33 | 2,33 | 4,74 | | 9,40 (3,20 - 10,60) | 4,59 | 4,40 A+ | 2,05 (0,52 - 3,01) | 1025 | 9,60 |
| 35+42+42 | 2,36 | 2,82 | 2,82 | | 8,00 (3,00 - 9,00) | 3,69 | 7,40 A++ | 2,17 (0,48 - 3,10) | 1085 | 10,40 | 2,76 | 3,32 | 3,32 | | 9,40 (3,20 - 10,60) | 4,35 | 4,40 A+ | 2,16 (0,48 - 3,16) | 1080 | 10,20 |
| 35+42+50 | 2,20 | 2,65 | 3,15 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 2,59 | 3,11 | 3,70 | | 9,40 (3,20 - 10,60) | 4,59 | 4,40 A+ | 2,05 (0,52 - 3,02) | 1025 | 9,60 |
| 35+42+60 | 2,04 | 2,45 | 3,51 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 2,40 | 2,88 | 4,12 | | 9,40 (3,20 - 10,60) | 4,59 | 4,40 A+ | 2,05 (0,52 - 3,02) | 1025 | 9,60 |
| 35+50+50 | 2,08 | 2,96 | 2,96 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 2,44 | 3,48 | 3,48 | | 9,40 (3,20 - 10,60) | 4,77 | 4,40 A+ | 1,97 (0,60 - 2,89) | 985 | 9,30 |
| 35+50+60 | 1,93 | 2,76 | 3,31 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 2,27 | 3,24 | 3,89 | | 9,40 (3,20 - 10,60) | 4,77 | 4,40 A+ | 1,97 (0,60 - 2,89) | 985 | 9,30 |
| 42+42+42 | 2,66 | 2,66 | 2,66 | | 7,98 (3,00 - 9,00) | 3,68 | 7,40 A++ | 2,17 (0,48 - 3,10) | 1085 | 10,40 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,60) | 4,37 | 4,40 A+ | 2,15 (0,48 - 3,15) | 1075 | 10,10 |
| 42+42+50 | 2,51 | 2,51 | 2,98 | | 8,00 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 2,95 | 2,95 | 3,50 | | 9,40 (3,20 - 10,60) | 4,59 | 4,40 A+ | 2,05 (0,54 - 3,00) | 1025 | 9,60 |
| 42+42+60 | 2,33 | 2,33 | 3,33 | | 7,99 (3,00 - 9,00) | 4,04 | 7,40 A++ | 1,98 (0,52 - 2,80) | 990 | 9,50 | 2,74 | 2,74 | 3,92 | | 9,40 (3,20 - 10,60) | 4,59 | 4,40 A+ | 2,05 (0,54 - 3,00) | 1025 | 9,60 |
| 42+50+50 | 2,36 | 2,82 | 2,82 | | 8,00 (3,00 - 9,00) | 4,17 | 7,40 A++ | 1,92 (0,57 - 2,65) | 960 | 9,20 | 2,78 | 3,31 | 3,31 | | 9,40 (3,20 - 10,60) | 4,77 | 4,40 A+ | 1,97 (0,61 - 2,88) | 985 | 9,30 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | 6,40 (3,00 - 9,20) | 4,30 | 8,50 A+++ | 1,49 (0,52 - 2,95) | 745 | 7,20 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 4,54 | 4,60 A++ | 2,07 (0,68 - 3,03) | 1035 | 9,70 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (3,00 - 9,20) | 4,28 | 8,50 A+++ | 1,59 (0,52 - 2,87) | 795 | 7,70 | 2,21 | 2,21 | 2,21 | 2,77 | 9,40 (4,20 - 10,60) | 4,56 | 4,60 A++ | 2,06 (0,68 - 3,02) | 1030 | 9,70 |
| 16+16+16+25 | 1,60 | 1,60 | 1,60 | 2,50 | 7,30 (3,00 - 9,20) | 4,15 | 7,90 A+++ | 1,76 (0,52 - 2,87) | 880 | 8,40 | 2,06 | 2,06 | 2,06 | 3,22 | 9,40 (4,20 - 10,60) | 4,56 | 4,60 A++ | 2,06 (0,68 - 3,02) | 1030 | 9,70 |
| 16+16+16+35 | 1,54 | 1,54 | 1,54 | 3,38 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,81 | 1,81 | 1,81 | 3,97 | 9,40 (4,20 - 10,60) | 4,61 | 4,70 A++ | 2,04 (0,69 - 2,99) | 1020 | 9,60 |
| 16+16+16+42 | 1,42 | 1,42 | 1,42 | 3,74 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,67 | 1,67 | 1,67 | 4,39 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A++ | 2,03 (0,69 - 2,98) | 1015 | 9,50 |
| 16+16+16+50 | 1,31 | 1,31 | 1,31 | 4,07 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,73) | 935 | 9,00 | 1,53 | 1,53 | 1,53 | 4,81 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A++ | 2,00 (0,76 - 2,86) | 1000 | 9,40 |
| 16+16+16+60 | 1,19 | 1,19 | 1,19 | 4,43 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,73) | 935 | 9,00 | 1,39 | 1,39 | 1,39 | 5,23 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A++ | 2,00 (0,76 - 2,86) | 1000 | 9,40 |
| 16+16+16+71 | 1,08 | 1,08 | 1,08 | 4,76 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,26 | 1,26 | 1,26 | 5,62 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A++ | 1,99 (0,77 - 2,85) | 995 | 9,40 |
| 16+16+20+20 | 1,60 | 1,60 | 2,00 | 2,00 | 7,20 (3,00 - 9,20) | 4,24 | 7,90 A+++ | 1,70 (0,53 - 2,87) | 850 | 8,20 | 2,09 | 2,09 | 2,61 | 2,61 | 9,40 (4,20 - 10,60) | 4,59 | 4,60 A++ | 2,05 (0,68 - 3,01) | 1025 | 9,60 |
| 16+16+20+25 | 1,60 | 1,60 | 2,00 | 2,50 | 7,70 (3,00 - 9,20) | 4,14 | 7,90 A+++ | 1,86 (0,53 - 2,87) | 930 | 8,90 | 1,95 | 1,95 | 2,44 | 3,06 | 9,40 (4,20 - 10,60) | 4,59 | 4,60 A++ | 2,05 (0,68 - 3,01) | 1025 | 9,60 |
| 16+16+20+35 | 1,47 | 1,47 | 1,84 | 3,22 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,53 - 2,87) | 960 | 9,20 | 1,73 | 1,73 | 2,16 | 3,78 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A++ | 2,03 (0,69 - 2,98) | 1015 | 9,50 |
| 16+16+20+42 | 1,36 | 1,36 | 1,70 | 3,58 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,56 - 2,87) | 960 | 9,20 | 1,60 | 1,60 | 2,00 | 4,20 | 9,40 (4,20 - 10,60) | 4,65 | 4,70 A++ | 2,02 (0,71 - 2,97) | 1010 | 9,50 |
| 16+16+20+50 | 1,25 | 1,25 | 1,57 | 3,93 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,47 | 1,47 | 1,84 | 4,62 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A++ | 1,99 (0,77 - 2,85) | 995 | 9,40 |
| 16+16+20+60 | 1,14 | 1,14 | 1,43 | 4,29 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,34 | 1,34 | 1,68 | 5,04 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A++ | 1,99 (0,77 - 2,85) | 995 | 9,40 |

## Free Multi 4x1 CU-4Z80TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 14,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+16+20+71 | 1,04 | 1,04 | 1,30 | 4,62 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,22 | 1,22 | 1,53 | 5,43 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,79 - 2,90) | 990 | 9,30 |
| 16+16+25+25 | 1,56 | 1,56 | 2,44 | 2,44 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,83 | 1,83 | 2,87 | 2,87 | 9,40 (4,20 - 10,60) | 4,59 | 4,70 A+++ | 2,05 (0,68 - 3,01) | 1025 | 9,60 |
| 16+16+25+35 | 1,39 | 1,39 | 2,17 | 3,05 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,53 - 2,87) | 960 | 9,20 | 1,63 | 1,63 | 2,55 | 3,59 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A+++ | 2,03 (0,69 - 2,98) | 1015 | 9,50 |
| 16+16+25+42 | 1,29 | 1,29 | 2,02 | 3,40 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,56 - 2,87) | 960 | 9,20 | 1,52 | 1,52 | 2,37 | 3,99 | 9,40 (4,20 - 10,60) | 4,65 | 4,70 A+++ | 2,02 (0,71 - 2,97) | 1010 | 9,50 |
| 16+16+25+50 | 1,20 | 1,20 | 1,87 | 3,73 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,41 | 1,41 | 2,20 | 4,38 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,77 - 2,85) | 995 | 9,40 |
| 16+16+25+60 | 1,09 | 1,09 | 1,71 | 4,11 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,29 | 1,29 | 2,01 | 4,81 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,77 - 2,85) | 995 | 9,40 |
| 16+16+25+71 | 1,00 | 1,00 | 1,56 | 4,44 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,18 | 1,18 | 1,84 | 5,20 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,79 - 2,90) | 990 | 9,30 |
| 16+16+35+35 | 1,25 | 1,25 | 2,75 | 2,75 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,47 | 1,47 | 3,23 | 3,23 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,72 - 2,95) | 1005 | 9,40 |
| 16+16+35+42 | 1,17 | 1,17 | 2,57 | 3,09 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,38 | 1,38 | 3,02 | 3,62 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,94) | 1000 | 9,40 |
| 16+16+35+50 | 1,09 | 1,09 | 2,39 | 3,43 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,29 | 1,29 | 2,81 | 4,01 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 16+16+35+60 | 1,01 | 1,01 | 2,20 | 3,78 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,18 | 1,18 | 2,59 | 4,45 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 16+16+35+71 | 0,93 | 0,93 | 2,03 | 4,11 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,09 | 1,09 | 2,38 | 4,84 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,87) | 985 | 9,30 |
| 16+16+42+42 | 1,10 | 1,10 | 2,90 | 2,90 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,30 | 1,30 | 3,40 | 3,40 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 16+16+42+50 | 1,03 | 1,03 | 2,71 | 3,23 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,21 | 1,21 | 3,18 | 3,80 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+16+42+60 | 0,96 | 0,96 | 2,51 | 3,57 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,66) | 935 | 9,00 | 1,12 | 1,12 | 2,95 | 4,21 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+16+42+71 | 0,88 | 0,88 | 2,32 | 3,92 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,04 | 1,04 | 2,72 | 4,60 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+16+50+50 | 0,97 | 0,97 | 3,03 | 3,03 | 8,00 (3,00 - 9,20) | 4,26 | 7,90 A+++ | 1,88 (0,69 - 2,60) | 940 | 9,00 | 1,14 | 1,14 | 3,56 | 3,56 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,92 - 2,85) | 1005 | 9,40 |
| 16+16+50+60 | 0,90 | 0,90 | 2,82 | 3,38 | 8,00 (3,00 - 9,20) | 4,26 | 7,90 A+++ | 1,88 (0,69 - 2,60) | 940 | 9,00 | 1,06 | 1,06 | 3,31 | 3,97 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,92 - 2,85) | 1005 | 9,40 |
| 16+20+20+20 | 1,60 | 2,00 | 2,00 | 2,00 | 7,60 (3,00 - 9,20) | 4,06 | 7,90 A+++ | 1,87 (0,53 - 2,87) | 935 | 9,00 | 1,99 | 2,47 | 2,47 | 2,47 | 9,40 (4,20 - 10,60) | 4,61 | 4,60 A+++ | 2,04 (0,69 - 3,00) | 1020 | 9,60 |
| 16+20+20+25 | 1,58 | 1,98 | 1,98 | 2,46 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,86 | 2,32 | 2,32 | 2,90 | 9,40 (4,20 - 10,60) | 4,61 | 4,70 A+++ | 2,04 (0,69 - 3,00) | 1020 | 9,60 |
| 16+20+20+35 | 1,41 | 1,76 | 1,76 | 3,07 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,65 | 2,07 | 2,07 | 3,61 | 9,40 (4,20 - 10,60) | 4,65 | 4,70 A+++ | 2,02 (0,71 - 2,97) | 1010 | 9,50 |
| 16+20+20+42 | 1,31 | 1,63 | 1,63 | 3,43 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,53 | 1,92 | 1,92 | 4,03 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 16+20+20+50 | 1,21 | 1,51 | 1,51 | 3,77 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,42 | 1,77 | 1,77 | 4,44 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+20+20+60 | 1,10 | 1,38 | 1,38 | 4,14 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,30 | 1,62 | 1,62 | 4,86 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+20+20+71 | 1,01 | 1,26 | 1,26 | 4,47 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,18 | 1,48 | 1,48 | 5,26 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 16+20+25+25 | 1,48 | 1,86 | 2,33 | 2,33 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,75 | 2,19 | 2,73 | 2,73 | 9,40 (4,20 - 10,60) | 4,61 | 4,70 A+++ | 2,04 (0,69 - 3,00) | 1020 | 9,60 |
| 16+20+25+35 | 1,33 | 1,67 | 2,08 | 2,92 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,57 | 1,96 | 2,45 | 3,42 | 9,40 (4,20 - 10,60) | 4,65 | 4,70 A+++ | 2,02 (0,71 - 2,97) | 1010 | 9,50 |
| 16+20+25+42 | 1,24 | 1,55 | 1,94 | 3,27 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,46 | 1,83 | 2,28 | 3,83 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 16+20+25+50 | 1,15 | 1,44 | 1,80 | 3,61 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,35 | 1,69 | 2,12 | 4,24 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+20+25+60 | 1,06 | 1,32 | 1,65 | 3,97 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,24 | 1,55 | 1,94 | 4,67 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+20+25+71 | 0,97 | 1,21 | 1,52 | 4,30 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,14 | 1,42 | 1,78 | 5,06 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 16+20+35+35 | 1,21 | 1,51 | 2,64 | 2,64 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,42 | 1,78 | 3,10 | 3,10 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,94) | 1000 | 9,40 |
| 16+20+35+42 | 1,13 | 1,42 | 2,48 | 2,97 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,33 | 1,66 | 2,91 | 3,50 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 16+20+35+50 | 1,06 | 1,32 | 2,31 | 3,31 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,24 | 1,55 | 2,72 | 3,89 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+20+35+60 | 0,98 | 1,22 | 2,14 | 3,66 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,15 | 1,44 | 2,51 | 4,30 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+20+35+71 | 0,90 | 1,13 | 1,97 | 4,00 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,06 | 1,32 | 2,32 | 4,70 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+20+42+42 | 1,07 | 1,33 | 2,80 | 2,80 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,25 | 1,57 | 3,29 | 3,29 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,72 - 2,92) | 995 | 9,40 |
| 16+20+42+50 | 1,00 | 1,25 | 2,63 | 3,12 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,18 | 1,47 | 3,08 | 3,67 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+20+42+60 | 0,93 | 1,16 | 2,43 | 3,48 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,09 | 1,36 | 2,86 | 4,09 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+20+50+50 | 0,94 | 1,18 | 2,94 | 2,94 | 8,00 (3,00 - 9,20) | 4,23 | 7,90 A+++ | 1,89 (0,69 - 2,60) | 945 | 9,00 | 1,10 | 1,38 | 3,46 | 3,46 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,93 - 2,90) | 1005 | 9,40 |
| 16+20+50+60 | 0,88 | 1,10 | 2,74 | 3,28 | 8,00 (3,00 - 9,20) | 4,23 | 7,90 A+++ | 1,89 (0,69 - 2,60) | 945 | 9,00 | 1,03 | 1,29 | 3,22 | 3,86 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,93 - 2,90) | 1005 | 9,40 |
| 16+25+25+25 | 1,40 | 2,20 | 2,20 | 2,20 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,66 | 2,58 | 2,58 | 2,58 | 9,40 (4,20 - 10,60) | 4,61 | 4,70 A+++ | 2,04 (0,69 - 3,00) | 1020 | 9,60 |
| 16+25+25+35 | 1,27 | 1,98 | 1,98 | 2,77 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,49 | 2,33 | 2,33 | 3,25 | 9,40 (4,20 - 10,60) | 4,65 | 4,70 A+++ | 2,02 (0,71 - 2,97) | 1010 | 9,50 |
| 16+25+25+42 | 1,19 | 1,85 | 1,85 | 3,11 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,39 | 2,18 | 2,18 | 3,65 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 16+25+25+50 | 1,10 | 1,72 | 1,72 | 3,46 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,30 | 2,03 | 2,03 | 4,04 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+25+25+60 | 1,02 | 1,59 | 1,59 | 3,80 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,19 | 1,87 | 1,87 | 4,47 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,79 - 2,90) | 995 | 9,40 |
| 16+25+25+71 | 0,93 | 1,46 | 1,46 | 4,15 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,10 | 1,72 | 1,72 | 4,86 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 16+25+35+35 | 1,15 | 1,81 | 2,52 | 2,52 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,35 | 2,13 | 2,96 | 2,96 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,94) | 1000 | 9,40 |
| 16+25+35+42 | 1,08 | 1,69 | 2,37 | 2,86 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,27 | 1,99 | 2,79 | 3,35 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 16+25+35+50 | 1,02 | 1,59 | 2,22 | 3,17 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,19 | 1,87 | 2,61 | 3,73 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+25+35+60 | 0,94 | 1,47 | 2,06 | 3,53 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,10 | 1,73 | 2,42 | 4,15 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 16+25+35+71 | 0,87 | 1,36 | 1,90 | 3,87 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,02 | 1,60 | 2,24 | 4,54 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+25+42+42 | 1,02 | 1,60 | 2,69 | 2,69 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,20 | 1,88 | 3,16 | 3,16 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,72 - 2,92) | 995 | 9,40 |
| 16+25+42+50 | 0,96 | 1,50 | 2,53 | 3,01 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,13 | 1,77 | 2,97 | 3,53 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+25+42+60 | 0,90 | 1,40 | 2,35 | 3,35 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,05 | 1,64 | 2,76 | 3,95 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 16+25+50+50 | 0,90 | 1,42 | 2,84 | 2,84 | 8,00 (3,00 - 9,20) | 4,23 | 7,90 A+++ | 1,89 (0,69 - 2,60) | 945 | 9,00 | 1,07 | 1,67 | 3,33 | 3,33 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,93 - 2,90) | 1005 | 9,40 |
| 16+35+35+35 | 1,07 | 2,31 | 2,31 | 2,31 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,24 | 2,72 | 2,72 | 2,72 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,72 - 2,91) | 990 | 9,30 |
| 16+35+35+42 | 1,00 | 2,19 | 2,19 | 2,62 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,18 | 2,57 | 2,57 | 3,08 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,75 - 2,90) | 990 | 9,30 |
| 16+35+35+50 | 0,94 | 2,06 | 2,06 | 2,94 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,11 | 2,42 | 2,42 | 3,45 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,84 - 2,86) | 1000 | 9,40 |
| 16+35+35+60 | 0,88 | 1,92 | 1,92 | 3,28 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,03 | 2,25 | 2,25 | 3,87 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,84 - 2,86) | 1000 | 9,40 |
| 16+35+42+42 | 0,95 | 2,07 | 2,49 | 2,49 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,11 | 2,45 | 2,92 | 2,92 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,75 - 2,89) | 985 | 9,30 |
| 16+35+42+50 | 0,90 | 1,96 | 2,35 | 2,79 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,05 | 2,30 | 2,76 | 3,29 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,84 - 2,85) | 1000 | 9,40 |
| 16+42+42+42 | 0,89 | 2,37 | 2,37 | 2,37 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,06 | 2,78 | 2,78 | 2,78 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,76 - 2,88) | 985 | 9,30 |
| 20+20+20+20 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A+++ | 2,03 (0,69 - 2,99) | 1015 | 9,50 |
| 20+20+20+25 | 1,88 | 1,88 | 1,88 | 2,36 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 2,21 | 2,21 | 2,21 | 2,77 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A+++ | 2,03 (0,69 - 2,99) | 1015 | 9,50 |
| 20+20+20+35 | 1,68 | 1,68 | 1,68 | 2,96 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,98 | 1,98 | 1,98 | 3,46 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 20+20+20+42 | 1,57 | 1,57 | 1,57 | 3,29 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,84 | 1,84 | 1,84 | 3,88 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,72 - 2,95) | 1005 | 9,40 |
| 20+20+20+50 | 1,45 | 1,45 | 1,45 | 3,65 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,71 | 1,71 | 1,71 | 4,27 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+20+20+60 | 1,33 | 1,33 | 1,33 | 4,01 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,57 | 1,57 | 1,57 | 4,69 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+20+20+71 | 1,22 | 1,22 | 1,22 | 4,34 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,44 | 1,44 | 1,44 | 5,08 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 20+20+25+25 | 1,78 | 1,78 | 2,22 | 2,22 | 8,00 (3,00 - 9,20) | 4,04 | 7,90 A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 2,09 | 2,09 | 2,61 | 2,61 | 9,40 (4,20 - 10,60) | 4,63 | 4,70 A+++ | 2,03 (0,69 - 2,99) | 1015 | 9,50 |
| 20+20+25+35 | 1,60 | 1,60 | 2,00 | 2,80 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,88 | 1,88 | 2,35 | 3,29 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 20+20+25+42 | 1,50 | 1,50 | 1,87 | 3,13 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,76 | 1,76 | 2,20 | 3,68 | 9,40 (4,20 - 10,60) | 4,68 | 4,70 A+++ | 2,01 (0,72 - 2,95) | 1005 | 9,40 |
| 20+20+25+50 | 1,39 | 1,39 | 1,74 | 3,48 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,63 | 1,63 | 2,04 | 4,10 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+20+25+60 | 1,28 | 1,28 | 1,60 | 3,84 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,50 | 1,50 | 1,88 | 4,52 | 9,40 (4,20 - 10,60) | 4,75 | 4,70 A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+20+25+71 | 1,18 | 1,18 | 1,47 | 4,17 | 8,00 (3,00 - 9,20) | 4,28 | 7,90 A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,38 | 1,38 | 1,73 | 4,91 | 9,40 (4,20 - 10,60) | 4,77 | 4,70 A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 20+20+35+35 | 1,45 | 1,45 | 2,55 | 2,55 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,71 | 1,71 | 2,99 | 2,99 | 9,40 (4,20 - 10,60) | 4,70 | 4,70 A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 20+20+35+42 | 1,37 | 1,37 | 2,39 | 2,87 | 8,00 (3,00 - 9,20) | 4,17 | 7,90 A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,61 | 1,61 | 2,81 | 3,37 | 9,40 (4,20 - 10,60) | 4,72 | 4,70 A+++ | 1,99 (0,72 - 2,92) | 995 | 9,40 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R32 combinations table

## Free Multi 4x1 CU-4Z80TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 14,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 20+20+35+50 | 1,28 | 1,28 | 2,24 | 3,20 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,50 | 1,50 | 2,63 | 3,77 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 20+20+35+60 | 1,19 | 1,19 | 2,07 | 3,55 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,39 | 1,39 | 2,44 | 4,18 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 20+20+35+71 | 1,10 | 1,10 | 1,92 | 3,88 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,29 | 1,29 | 2,25 | 4,57 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,83 - 2,86) | 1000 | 9,40 |
| 20+20+42+42 | 1,29 | 1,29 | 2,71 | 2,71 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,52 | 1,52 | 3,18 | 3,18 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,72 - 2,91) | 990 | 9,30 |
| 20+20+42+50 | 1,21 | 1,21 | 2,55 | 3,03 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,42 | 1,42 | 2,99 | 3,57 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,81 - 2,86) | 1000 | 9,40 |
| 20+20+42+60 | 1,13 | 1,13 | 2,37 | 3,37 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,32 | 1,32 | 2,78 | 3,98 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,81 - 2,86) | 1000 | 9,40 |
| 20+20+50+50 | 1,14 | 1,14 | 2,86 | 2,86 | 8,00 (3,00 - 9,20) | 4,23 | **7,90** A+++ | 1,89 (0,70 - 2,60) | 945 | 9,00 | 1,34 | 1,34 | 3,36 | 3,36 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,94 - 2,89) | 1005 | 9,40 |
| 20+25+25+25 | 1,67 | 2,11 | 2,11 | 2,11 | 8,00 (3,00 - 9,20) | 4,04 | **7,90** A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 1,99 | 2,47 | 2,47 | 2,47 | 9,40 (4,20 - 10,60) | 4,63 | **4,70** A+++ | 2,03 (0,69 - 2,99) | 1015 | 9,50 |
| 20+25+25+35 | 1,52 | 1,90 | 1,90 | 2,68 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,79 | 2,24 | 2,24 | 3,13 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 20+25+25+42 | 1,43 | 1,79 | 1,79 | 2,99 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,68 | 2,10 | 2,10 | 3,52 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,72 - 2,95) | 1005 | 9,40 |
| 20+25+25+50 | 1,33 | 1,67 | 1,67 | 3,33 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,57 | 1,96 | 1,96 | 3,91 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+25+25+60 | 1,23 | 1,54 | 1,54 | 3,69 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,45 | 1,81 | 1,81 | 4,33 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 20+25+25+71 | 1,13 | 1,42 | 1,42 | 4,03 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,33 | 1,67 | 1,67 | 4,73 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 20+25+35+35 | 1,39 | 1,75 | 2,43 | 2,43 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,63 | 2,05 | 2,86 | 2,86 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 20+25+35+42 | 1,31 | 1,64 | 2,30 | 2,75 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,54 | 1,93 | 2,70 | 3,23 | 9,40 (4,20 - 10,60) | 4,72 | **4,70** A+++ | 1,99 (0,72 - 2,92) | 995 | 9,40 |
| 20+25+35+50 | 1,23 | 1,54 | 2,15 | 3,08 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,45 | 1,81 | 2,53 | 3,61 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 20+25+35+60 | 1,14 | 1,43 | 2,00 | 3,43 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,34 | 1,68 | 2,35 | 4,03 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 20+25+42+42 | 1,24 | 1,56 | 2,60 | 2,60 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,46 | 1,82 | 3,06 | 3,06 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,72 - 2,91) | 990 | 9,30 |
| 20+25+42+50 | 1,17 | 1,46 | 2,45 | 2,92 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,37 | 1,72 | 2,88 | 3,43 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,81 - 2,86) | 1000 | 9,40 |
| 20+25+42+60 | 1,09 | 1,36 | 2,29 | 3,26 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,28 | 1,60 | 2,69 | 3,83 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,81 - 2,86) | 1000 | 9,40 |
| 20+25+50+50 | 1,10 | 1,38 | 2,76 | 2,76 | 8,00 (3,00 - 9,20) | 4,23 | **7,90** A+++ | 1,89 (0,70 - 2,60) | 945 | 9,00 | 1,30 | 1,62 | 3,24 | 3,24 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,94 - 2,89) | 1005 | 9,40 |
| 20+35+35+35 | 1,28 | 2,24 | 2,24 | 2,24 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,51 | 2,63 | 2,63 | 2,63 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,75 - 2,90) | 990 | 9,30 |
| 20+35+35+42 | 1,21 | 2,12 | 2,12 | 2,55 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,42 | 2,49 | 2,49 | 3,00 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,75 - 2,89) | 985 | 9,30 |
| 20+35+35+50 | 1,14 | 2,00 | 2,00 | 2,86 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,34 | 2,35 | 2,35 | 3,36 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,84 - 2,85) | 1000 | 9,40 |
| 20+35+42+42 | 1,15 | 2,01 | 2,42 | 2,42 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,35 | 2,37 | 2,84 | 2,84 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,76 - 2,88) | 985 | 9,30 |
| 20+35+42+50 | 1,09 | 1,90 | 2,29 | 2,72 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,28 | 2,24 | 2,69 | 3,19 | 9,40 (4,20 - 10,60) | 4,72 | **4,70** A+++ | 1,99 (0,85 - 2,84) | 995 | 9,40 |
| 20+42+42+42 | 1,10 | 2,30 | 2,30 | 2,30 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,58 - 2,72) | 935 | 9,00 | 1,30 | 2,70 | 2,70 | 2,70 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,76 - 2,87) | 1000 | 9,40 |
| 25+25+25+25 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 4,04 | **7,90** A+++ | 1,98 (0,53 - 2,87) | 990 | 9,50 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 4,63 | **4,70** A+++ | 2,03 (0,69 - 2,99) | 1015 | 9,50 |
| 25+25+25+35 | 1,82 | 1,82 | 1,82 | 2,54 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 2,14 | 2,14 | 2,14 | 2,98 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,71 - 2,96) | 1005 | 9,40 |
| 25+25+25+42 | 1,71 | 1,71 | 1,71 | 2,87 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 2,01 | 2,01 | 2,01 | 3,37 | 9,40 (4,20 - 10,60) | 4,68 | **4,70** A+++ | 2,01 (0,72 - 2,95) | 1005 | 9,40 |
| 25+25+25+50 | 1,60 | 1,60 | 1,60 | 3,20 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,88 | 1,88 | 1,88 | 3,76 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 25+25+25+60 | 1,48 | 1,48 | 1,48 | 3,56 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,62 - 2,65) | 935 | 9,00 | 1,74 | 1,74 | 1,74 | 4,18 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,80 - 2,89) | 990 | 9,30 |
| 25+25+25+71 | 1,37 | 1,37 | 1,37 | 3,89 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,61 | 1,61 | 1,61 | 4,57 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,80 - 2,88) | 985 | 9,30 |
| 25+25+35+35 | 1,67 | 1,67 | 2,33 | 2,33 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,96 | 1,96 | 2,74 | 2,74 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,72 - 2,93) | 1000 | 9,40 |
| 25+25+35+42 | 1,57 | 1,57 | 2,20 | 2,66 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,85 | 1,85 | 2,59 | 3,11 | 9,40 (4,20 - 10,60) | 4,72 | **4,70** A+++ | 1,99 (0,72 - 2,92) | 995 | 9,40 |
| 25+25+35+50 | 1,48 | 1,48 | 2,07 | 2,97 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,74 | 1,74 | 2,44 | 3,48 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 25+25+35+60 | 1,38 | 1,38 | 1,93 | 3,31 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,62 | 1,62 | 2,27 | 3,89 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,81 - 2,87) | 985 | 9,30 |
| 25+25+42+42 | 1,49 | 1,49 | 2,51 | 2,51 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,80) | 960 | 9,20 | 1,75 | 1,75 | 2,95 | 2,95 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,72 - 2,91) | 990 | 9,30 |
| 25+25+42+50 | 1,41 | 1,41 | 2,37 | 2,81 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,65 | 1,65 | 2,78 | 3,32 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,81 - 2,86) | 1000 | 9,40 |
| 25+35+35+35 | 1,55 | 2,15 | 2,15 | 2,15 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,81 | 2,53 | 2,53 | 2,53 | 9,40 (4,20 - 10,60) | 4,75 | **4,70** A+++ | 1,98 (0,75 - 2,90) | 990 | 9,30 |
| 25+35+35+42 | 1,46 | 2,04 | 2,04 | 2,46 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,72 | 2,40 | 2,40 | 2,88 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,75 - 2,89) | 985 | 9,30 |
| 25+35+35+50 | 1,38 | 1,93 | 1,93 | 2,76 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,63 - 2,66) | 935 | 9,00 | 1,62 | 2,27 | 2,27 | 3,24 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,84 - 2,85) | 1000 | 9,40 |
| 25+35+42+42 | 1,39 | 1,95 | 2,33 | 2,33 | 8,00 (3,00 - 9,20) | 4,17 | **7,90** A+++ | 1,92 (0,57 - 2,72) | 960 | 9,20 | 1,63 | 2,29 | 2,74 | 2,74 | 9,40 (4,20 - 10,60) | 4,77 | **4,70** A+++ | 1,97 (0,76 - 2,88) | 985 | 9,30 |
| 35+35+35+35 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,58 - 2,72) | 935 | 9,00 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 4,70 | **4,70** A+++ | 2,00 (0,76 - 2,87) | 1000 | 9,40 |
| 35+35+35+42 | 1,90 | 1,90 | 1,90 | 2,30 | 8,00 (3,00 - 9,20) | 4,28 | **7,90** A+++ | 1,87 (0,58 - 2,72 | 935 | 9,00 | 2,24 | 2,24 | 2,24 | 2,68 | 9,40 (4,20 - 10,60 | 4,70 | **4,70** A+++ | 2,00 (0,76 - 2,86) | 1000 | 9,40 |

1) Energy Label Scale from A+++ to D.

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | | 1,60 (1,30 - 2,30) | 4,00 | | 0,40 (0,25 - 0,64) | 200 | 2,00 | 2,60 | | | | | 2,60 (1,20 - 3,20) | 4,33 | | 0,60 (0,30 - 0,96) | 300 | 3,00 |
| 20 | 2,00 | | | | | 2,00 (1,80 - 2,90) | 4,00 | | 0,50 (0,34 - 0,81) | 250 | 2,50 | 3,20 | | | | | 3,20 (1,20 - 4,10) | 4,32 | | 0,74 (0,30 - 1,23) | 370 | 3,70 |
| 25 | 2,50 | | | | | 2,50 (1,80 - 2,90) | 3,97 | | 0,63 (0,34 - 0,81) | 315 | 3,20 | 3,60 | | | | | 3,60 (1,20 - 4,30) | 3,83 | | 0,94 (0,30 - 1,23) | 470 | 4,70 |
| 35 | 3,50 | | | | | 3,50 (1,80 - 4,10) | 3,72 | | 0,94 (0,34 - 1,36) | 470 | 4,50 | 4,50 | | | | | 4,50 (1,20 - 5,80) | 3,66 | | 1,23 (0,30 - 2,10) | 615 | 6,00 |
| 42 | 4,20 | | | | | 4,20 (1,80 - 4,50) | 3,07 | | 1,37 (0,34 - 1,99) | 685 | 6,40 | 5,60 | | | | | 5,60 (1,20 - 6,80) | 3,26 | | 1,72 (0,30 - 2,93) | 860 | 8,00 |
| 50 | 5,00 | | | | | 5,00 (1,90 - 5,70) | 3,23 | | 1,55 (0,34 - 2,13) | 775 | 7,20 | 6,80 | | | | | 6,80 (1,20 - 6,90) | 3,24 | | 2,10 (0,30 - 2,52) | 1050 | 9,70 |
| 60 | 6,00 | | | | | 6,00 (1,90 - 6,20) | 2,96 | | 2,03 (0,34 - 2,33) | 1015 | 9,20 | 8,50 | | | | | 8,50 (1,30 - 9,00) | 3,54 | | 2,40 (0,62 - 2,55) | 1200 | 11,10 |
| 71 | 7,10 | | | | | 7,10 (2,00 - 7,20) | 2,81 | | 2,53 (0,37 - 2,77) | 1265 | 11,40 | 8,70 | | | | | 8,70 (1,40 - 9,20) | 3,41 | | 2,55 (0,68 - 2,72) | 1275 | 11,80 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | | | 3,20 (2,40 - 5,80) | 4,85 | **5,60** A+ | 0,66 (0,27 - 1,74) | 330 | 3,40 | 2,35 | 2,35 | | | | 4,70 (2,00 - 8,20) | 3,88 | **3,80** A | 1,21 (0,22 - 2,41) | 605 | 5,80 |
| 16 + 20 | 1,60 | 2,00 | | | | 3,60 (2,40 - 5,80) | 4,56 | **5,60** A+ | 0,79 (0,27 - 1,74) | 395 | 4,00 | 2,31 | 2,89 | | | | 5,20 (2,00 - 8,20) | 3,80 | **3,80** A | 1,37 (0,22 - 2,40) | 685 | 6,50 |
| 16 + 25 | 1,60 | 2,50 | | | | 4,10 (2,40 - 5,80) | 4,27 | **5,60** A+ | 0,96 (0,27 - 1,74) | 480 | 4,70 | 2,19 | 3,41 | | | | 5,60 (2,00 - 8,20) | 3,73 | **3,80** A | 1,50 (0,22 - 2,40) | 750 | 7,10 |
| 16 + 35 | 1,60 | 3,50 | | | | 5,10 (2,40 - 5,80) | 3,86 | **5,60** A+ | 1,32 (0,26 - 1,68) | 660 | 6,40 | 2,01 | 4,39 | | | | 6,40 (2,00 - 8,60) | 3,79 | **3,80** A | 1,69 (0,21 - 2,48) | 845 | 8,00 |
| 16 + 42 | 1,60 | 4,20 | | | | 5,80 (2,40 - 6,70) | 3,56 | **5,60** A+ | 1,63 (0,26 - 2,13) | 815 | 7,90 | 2,04 | 5,36 | | | | 7,40 (2,00 - 10,10) | 3,72 | **3,80** A | 1,99 (0,21 - 3,03) | 995 | 9,40 |
| 16 + 50 | 1,60 | 5,00 | | | | 6,60 (2,40 - 7,20) | 3,59 | **6,10** A++ | 1,84 (0,25 - 2,13) | 920 | 8,80 | 2,06 | 6,44 | | | | 8,50 (2,00 - 11,00) | 3,86 | **4,00** A+ | 2,20 (0,16 - 3,04) | 1100 | 10,30 |
| 16 + 60 | 1,60 | 6,00 | | | | 7,60 (2,40 - 8,60) | 3,21 | **6,10** A++ | 2,37 (0,25 - 3,08) | 1185 | 11,30 | 2,11 | 7,89 | | | | 10,00 (2,00 - 11,00) | 3,75 | **4,00** A+ | 2,67 (0,16 - 3,04) | 1335 | 12,50 |
| 16 + 71 | 1,60 | 7,10 | | | | 8,70 (2,50 - 9,10) | 2,98 | **6,10** A++ | 2,92 (0,27 - 3,16) | 1460 | 14,00 | 1,88 | 8,32 | | | | 10,20 (2,00 - 13,00) | 3,82 | **4,00** A+ | 2,67 (0,16 - 3,83) | 1335 | 12,50 |
| 20 + 20 | 2,00 | 2,00 | | | | 4,00 (2,40 - 5,80) | 4,35 | **5,60** A+ | 0,92 (0,26 - 1,68) | 460 | 4,50 | 2,90 | 2,90 | | | | 5,80 (2,00 - 8,20) | 3,79 | **3,80** A | 1,53 (0,22 - 2,39) | 765 | 7,30 |
| 20 + 25 | 2,00 | 2,50 | | | | 4,50 (2,40 - 5,80) | 4,02 | **5,60** A+ | 1,12 (0,26 - 1,68) | 560 | 5,50 | 2,71 | 3,39 | | | | 6,10 (2,00 - 8,20) | 3,77 | **3,80** A | 1,62 (0,22 - 2,39) | 810 | 7,70 |
| 20 + 35 | 2,00 | 3,50 | | | | 5,50 (2,40 - 5,80) | 3,74 | **5,60** A+ | 1,47 (0,26 - 1,63) | 735 | 7,10 | 2,51 | 4,39 | | | | 6,90 (2,00 - 8,60) | 3,81 | **3,80** A | 1,81 (0,21 - 2,42) | 905 | 8,50 |
| 20 + 42 | 2,00 | 4,20 | | | | 6,20 (2,40 - 7,20) | 3,37 | **5,60** A+ | 1,84 (0,26 - 2,49) | 920 | 8,80 | 2,55 | 5,35 | | | | 7,90 (2,00 - 11,00) | 3,66 | **3,80** A | 2,16 (0,20 - 3,23) | 1080 | 10,20 |
| 20 + 50 | 2,00 | 5,00 | | | | 7,00 (2,40 - 8,10) | 3,59 | **6,10** A++ | 1,95 (0,25 - 2,61) | 975 | 9,30 | 2,57 | 6,43 | | | | 9,00 (2,00 - 11,00) | 3,98 | **4,00** A+ | 2,26 (0,16 - 2,98) | 1130 | 10,60 |
| 20 + 60 | 2,00 | 6,00 | | | | 8,00 (2,40 - 8,60) | 3,14 | **6,10** A++ | 2,55 (0,25 - 3,01) | 1275 | 12,20 | 2,60 | 7,80 | | | | 10,40 (2,00 - 11,90) | 3,88 | **4,00** A+ | 2,68 (0,16 - 3,33) | 1340 | 12,60 |
| 20 + 71 | 1,98 | 7,02 | | | | 9,00 (2,50 - 10,00) | 2,88 | **6,10** A++ | 3,12 (0,27 - 4,03) | 1560 | 14,90 | 2,29 | 8,11 | | | | 10,40 (2,00 - 13,00) | 3,97 | **4,00** A+ | 2,62 (0,16 - 3,82) | 1310 | 12,30 |
| 25 + 25 | 2,50 | 2,50 | | | | 5,00 (2,40 - 5,80) | 3,94 | **5,60** A+ | 1,27 (0,26 - 1,68) | 635 | 6,10 | 3,25 | 3,25 | | | | 6,50 (2,00 - 8,60) | 3,82 | **3,80** A | 1,70 (0,22 - 2,50) | 850 | 8,10 |
| 25 + 35 | 2,50 | 3,50 | | | | 6,00 (2,40 - 6,70) | 3,47 | **5,60** A+ | 1,73 (0,26 - 2,13) | 865 | 8,40 | 3,04 | 4,26 | | | | 7,30 (2,00 - 10,10) | 3,76 | **3,80** A | 1,94 (0,21 - 3,03) | 970 | 9,10 |
| 25 + 42 | 2,50 | 4,20 | | | | 6,70 (2,40 - 7,20) | 3,15 | **5,60** A+ | 2,13 (0,26 - 2,49) | 1065 | 10,20 | 3,10 | 5,20 | | | | 8,30 (2,00 - 11,00) | 3,61 | **3,80** A | 2,30 (0,20 - 3,23) | 1150 | 10,80 |
| 25 + 50 | 2,50 | 5,00 | | | | 7,50 (2,40 - 8,60) | 3,33 | **6,10** A++ | 2,25 (0,25 - 3,01) | 1125 | 10,80 | 3,13 | 6,27 | | | | 9,40 (2,00 - 11,00) | 3,84 | **4,00** A+ | 2,45 (0,16 - 2,98) | 1225 | 11,50 |
| 25 + 60 | 2,50 | 6,00 | | | | 8,50 (2,50 - 9,10) | 2,89 | **6,10** A++ | 2,94 (0,27 - 3,29) | 1470 | 14,10 | 3,06 | 7,34 | | | | 10,40 (2,00 - 13,00) | 3,88 | **4,00** A+ | 2,68 (0,16 - 3,83) | 1340 | 12,60 |
| 25 + 71 | 2,34 | 6,66 | | | | 9,00 (2,50 - 10,10) | 2,88 | **6,10** A++ | 3,12 (0,27 - 4,18) | 1560 | 14,90 | 2,71 | 7,69 | | | | 10,40 (2,00 - 13,00) | 3,97 | **4,00** A+ | 2,62 (0,16 - 3,82) | 1310 | 12,30 |
| 35 + 35 | 3,50 | 3,50 | | | | 7,00 (2,40 - 8,10) | 3,11 | **5,60** A+ | 2,25 (0,26 - 3,06) | 1125 | 10,80 | 4,05 | 4,05 | | | | 8,10 (2,00 - 11,00) | 3,70 | **3,80** A | 2,19 (0,20 - 3,22) | 1095 | 10,30 |
| 35 + 42 | 3,50 | 4,20 | | | | 7,70 (2,40 - 8,60) | 2,88 | **5,60** A+ | 2,67 (0,26 - 3,55) | 1335 | 12,80 | 4,14 | 4,96 | | | | 9,10 (2,00 - 11,00) | 3,65 | **3,80** A | 2,49 (0,20 - 3,16) | 1245 | 11,70 |
| 35 + 50 | 3,50 | 5,00 | | | | 8,50 (2,50 - 9,10) | 3,02 | **6,10** A++ | 2,81 (0,27 - 3,16) | 1405 | 13,50 | 4,20 | 6,00 | | | | 10,20 (2,00 - 13,00) | 3,94 | **4,00** A+ | 2,59 (0,16 - 3,81) | 1295 | 12,20 |
| 35 + 60 | 3,32 | 5,68 | | | | 9,00 (2,50 - 10,10) | 2,82 | **6,10** A++ | 3,19 (0,27 - 4,18) | 1595 | 15,30 | 3,83 | 6,57 | | | | 10,40 (2,00 - 13,00) | 3,98 | **4,00** A+ | 2,61 (0,16 - 3,81) | 1305 | 12,30 |
| 35 + 71 | 2,97 | 6,03 | | | | 9,00 (2,50 - 10,40) | 3,01 | **6,10** A++ | 2,99 (0,27 - 4,34) | 1495 | 14,30 | 3,43 | 6,97 | | | | 10,40 (2,00 - 13,80) | 4,02 | **4,00** A+ | 2,59 (0,16 - 4,14) | 1295 | 12,20 |
| 42 + 42 | 4,20 | 4,20 | | | | 8,40 (2,50 - 9,10) | 2,51 | **5,60** A+ | 3,34 (0,28 - 3,96) | 1670 | 16,00 | 5,05 | 5,05 | | | | 10,10 (2,00 - 13,00) | 3,62 | **3,80** A | 2,79 (0,19 - 3,99) | 1395 | 13,10 |
| 42 + 50 | 4,11 | 4,89 | | | | 9,00 (2,50 - 10,00) | 2,88 | **6,10** A++ | 3,12 (0,27 - 4,03) | 1560 | 14,90 | 4,75 | 5,65 | | | | 10,40 (2,00 - 13,00) | 4,00 | **4,00** A+ | 2,60 (0,16 - 3,74) | 1300 | 12,20 |
| 42 + 60 | 3,71 | 5,29 | | | | 9,00 (2,50 - 10,40) | 2,88 | **6,10** A++ | 3,12 (0,27 - 4,33) | 1560 | 14,90 | 4,28 | 6,12 | | | | 10,40 (2,00 - 13,80) | 4,00 | **4,00** A+ | 2,60 (0,16 - 4,15) | 1300 | 12,20 |
| 42 + 71 | 3,35 | 5,65 | | | | 9,00 (2,50 - 10,40) | 3,01 | **6,10** A++ | 2,99 (0,27 - 4,34) | 1495 | 14,30 | 3,87 | 6,53 | | | | 10,40 (2,00 - 13,80) | 4,03 | **4,00** A+ | 2,58 (0,16 - 4,13) | 1290 | 12,10 |
| 50 + 50 | 4,50 | 4,50 | | | | 9,00 (2,50 - 10,40) | 3,38 | **6,10** A++ | 2,66 (0,26 - 3,61) | 1330 | 12,70 | 5,20 | 5,20 | | | | 10,40 (2,00 - 13,80) | 4,28 | **4,00** A+ | 2,43 (0,17 - 3,90) | 1215 | 11,40 |
| 50 + 60 | 4,09 | 4,91 | | | | 9,00 (2,50 - 10,40) | 3,38 | **6,10** A++ | 2,66 (0,26 - 3,61) | 1330 | 12,70 | 4,73 | 5,67 | | | | 10,40 (2,00 - 13,80) | 4,28 | **4,00** A+ | 2,43 (0,17 - 3,90) | 1215 | 11,40 |
| 50 + 71 | 3,72 | 5,28 | | | | 9,00 (2,50 - 10,40) | 3,46 | **6,10** A++ | 2,60 (0,26 - 3,48) | 1300 | 12,40 | 4,30 | 6,10 | | | | 10,40 (2,00 - 13,80) | 4,32 | **4,00** A+ | 2,41 (0,17 - 3,89) | 1205 | 11,30 |
| 60 + 60 | 4,50 | 4,50 | | | | 9,00 (2,50 - 10,40) | 3,38 | **6,10** A++ | 2,66 (0,26 - 3,61) | 1330 | 12,70 | 5,20 | 5,20 | | | | 10,40 (2,00 - 13,80) | 4,28 | **4,00** A+ | 2,43 (0,17 - 3,90) | 1215 | 11,40 |
| 60 + 71 | 4,12 | 4,88 | | | | 9,00 (2,50 - 10,40) | 3,46 | **6,10** A++ | 2,60 (0,26 - 3,48) | 1300 | 12,40 | 4,76 | 5,64 | | | | 10,40 (2,00 - 13,80) | 4,32 | **4,00** A+ | 2,41 (0,17 - 3,89) | 1205 | 11,30 |
| 71 + 71 | 4,50 | 4,50 | | | | 9,00 (2,50 - 10,40) | 3,64 | **6,10** A++ | 2,47 (0,29 - 3,34) | 1235 | 11,80 | 5,20 | 5,20 | | | | 10,40 (2,00 - 13,80) | 4,43 | **4,00** A+ | 2,35 (0,18 - 3,87) | 1175 | 11,00 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | | | 4,80 (2,90 - 8,50) | 4,85 | **7,20** A+++ | 0,99 (0,32 - 2,62) | 495 | 4,90 | 2,33 | 2,33 | 2,33 | | | 6,99 (2,70 - 12,30) | 4,54 | **4,00** A+ | 1,54 (0,23 - 3,38) | 770 | 7,30 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | | | 5,20 (2,90 - 8,50) | 4,73 | **7,20** A+++ | 1,10 (0,32 - 2,62) | 550 | 5,40 | 2,34 | 2,34 | 2,92 | | | 7,60 (2,70 - 12,30) | 4,37 | **4,00** A+ | 1,74 (0,23 - 3,37) | 870 | 8,30 |
| 16 + 16 + 25 | 1,60 | 1,60 | 2,50 | | | 5,70 (2,90 - 8,50) | 4,42 | **7,20** A+++ | 1,29 (0,32 - 2,62) | 645 | 6,20 | 2,22 | 2,22 | 3,46 | | | 7,90 (2,70 - 12,30) | 4,32 | **4,00** A+ | 1,83 (0,23 - 3,37) | 915 | 8,60 |
| 16 + 16 + 35 | 1,60 | 1,60 | 3,50 | | | 6,70 (2,90 - 8,50) | 4,16 | **7,20** A+++ | 1,61 (0,31 - 2,55) | 805 | 7,80 | 2,08 | 2,08 | 4,54 | | | 8,70 (2,70 - 12,30) | 4,31 | **4,10** A+ | 2,02 (0,23 - 3,28) | 1010 | 9,50 |
| 16 + 16 + 42 | 1,60 | 1,60 | 4,20 | | | 7,40 (2,90 - 8,50) | 3,79 | **7,20** A+++ | 1,95 (0,34 - 2,49) | 975 | 9,30 | 2,10 | 2,10 | 5,50 | | | 9,70 (2,70 - 12,30) | 4,06 | **4,10** A+ | 2,39 (0,23 - 3,27) | 1195 | 11,20 |
| 16 + 16 + 50 | 1,60 | 1,60 | 5,00 | | | 8,20 (2,90 - 8,70) | 3,89 | **7,20** A+++ | 2,11 (0,34 - 2,29) | 1055 | 10,10 | 2,03 | 2,03 | 6,34 | | | 10,40 (2,70 - 12,90) | 4,50 | **4,10** A+ | 2,31 (0,25 - 3,36) | 1155 | 10,90 |
| 16 + 16 + 60 | 1,57 | 1,57 | 5,86 | | | 9,00 (2,90 - 10,10) | 3,64 | **7,20** A+++ | 2,47 (0,34 - 3,00) | 1235 | 11,80 | 1,81 | 1,81 | 6,78 | | | 10,40 (2,70 - 13,60) | 4,50 | **4,20** A+ | 2,31 (0,25 - 3,70) | 1155 | 10,90 |
| 16 + 16 + 71 | 1,40 | 1,40 | 6,20 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,34) | 1205 | 11,50 | 1,62 | 1,62 | 7,16 | | | 10,40 (2,70 - 13,60) | 4,52 | **4,20** A+ | 2,30 (0,25 - 3,62) | 1150 | 10,80 |
| 16 + 20 + 20 | 1,60 | 2,00 | 2,00 | | | 5,60 (2,90 - 8,50) | 4,52 | **7,20** A+++ | 1,24 (0,31 - 2,55) | 620 | 6,00 | 2,32 | 2,89 | 2,89 | | | 8,10 (2,70 - 12,30) | 4,33 | **4,00** A+ | 1,87 (0,23 - 3,36) | 935 | 8,80 |
| 16 + 20 + 25 | 1,60 | 2,00 | 2,50 | | | 6,10 (2,90 - 8,50) | 4,21 | **7,20** A+++ | 1,45 (0,31 - 2,55) | 725 | 7,00 | 2,23 | 2,79 | 3,48 | | | 8,50 (2,70 - 12,30) | 4,15 | **4,10** A+ | 2,05 (0,23 - 3,36) | 1025 | 9,60 |
| 16 + 20 + 35 | 1,60 | 2,00 | 3,50 | | | 7,10 (2,90 - 8,50) | 3,99 | **7,20** A+++ | 1,78 (0,34 - 2,49) | 890 | 8,50 | 2,10 | 2,62 | 4,58 | | | 9,30 (2,70 - 12,30) | 4,23 | **4,10** A+ | 2,20 (0,23 - 3,27) | 1100 | 10,30 |
| 16 + 20 + 42 | 1,60 | 2,00 | 4,20 | | | 7,80 (2,90 - 8,50) | 3,79 | **7,20** A+++ | 2,06 (0,34 - 2,49) | 1030 | 9,90 | 2,11 | 2,64 | 5,55 | | | 10,30 (2,70 - 12,90) | 4,26 | **4,10** A+ | 2,42 (0,23 - 3,54) | 1210 | 11,40 |
| 16 + 20 + 50 | 1,60 | 2,00 | 5,00 | | | 8,60 (2,90 - 9,60) | 3,74 | **7,20** A+++ | 2,30 (0,34 - 2,62) | 1150 | 11,00 | 1,93 | 2,42 | 6,05 | | | 10,40 (2,70 - 13,60) | 4,52 | **4,20** A+ | 2,30 (0,25 - 3,63) | 1150 | 10,80 |
| 16 + 20 + 60 | 1,49 | 1,88 | 5,63 | | | 9,00 (2,90 - 10,10) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 2,94) | 1205 | 11,50 | 1,73 | 2,17 | 6,50 | | | 10,40 (2,70 - 13,60) | 4,52 | **4,20** A+ | 2,30 (0,25 - 3,63) | 1150 | 10,80 |
| 16 + 20 + 71 | 1,35 | 1,68 | 5,97 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,56 | 1,94 | 6,90 | | | 10,40 (2,70 - 13,80) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,73) | 1145 | 10,80 |
| 16 + 25 + 25 | 1,60 | 2,50 | 2,50 | | | 6,60 (2,90 - 8,50) | 3,98 | **7,20** A+++ | 1,66 (0,31 - 2,55) | 830 | 8,00 | 2,14 | 3,33 | 3,33 | | | 8,80 (2,70 - 12,30) | 4,23 | **4,10** A+ | 2,08 (0,23 - 3,36) | 1040 | 9,80 |
| 16 + 25 + 35 | 1,60 | 2,50 | 3,50 | | | 7,60 (2,90 - 8,50) | 3,69 | **7,20** A+++ | 2,06 (0,34 - 2,49) | 1030 | 9,90 | 2,02 | 3,16 | 4,42 | | | 9,60 (2,70 - 12,30) | 4,10 | **4,10** A+ | 2,34 (0,23 - 3,27) | 1170 | 11,00 |
| 16 + 25 + 42 | 1,60 | 2,50 | 4,20 | | | 8,30 (2,90 - 8,70) | 3,52 | **7,20** A+++ | 2,36 (0,34 - 2,54) | 1180 | 11,30 | 2,00 | 3,13 | 5,27 | | | 10,40 (2,70 - 12,90) | 4,23 | **4,10** A+ | 2,46 (0,23 - 3,54) | 1230 | 11,60 |
| 16 + 25 + 50 | 1,58 | 2,47 | 4,95 | | | 9,00 (2,90 - 10,10) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 2,94) | 1205 | 11,50 | 1,83 | 2,86 | 5,71 | | | 10,40 (2,70 - 13,60) | 4,52 | **4,20** A+ | 2,30 (0,25 - 3,63) | 1150 | 10,80 |
| 16 + 25 + 60 | 1,42 | 2,23 | 5,35 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,48) | 1205 | 11,50 | 1,65 | 2,57 | 6,18 | | | 10,40 (2,70 - 13,60) | 4,52 | **4,20** A+ | 2,30 (0,25 - 3,63) | 1150 | 10,80 |
| 16 + 25 + 71 | 1,28 | 2,01 | 5,71 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,49 | 2,32 | 6,59 | | | 10,40 (2,70 - 13,80) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,73) | 1145 | 10,80 |
| 16 + 35 + 35 | 1,60 | 3,50 | 3,50 | | | 8,60 (2,90 - 9,60) | 3,45 | **7,20** A+++ | 2,49 (0,34 - 2,93) | 1245 | 11,90 | 1,94 | 4,23 | 4,23 | | | 10,40 (2,70 - 13,60) | 4,24 | **4,20** A+ | 2,45 (0,23 - 3,86) | 1225 | 11,50 |
| 16 + 35 + 42 | 1,55 | 3,39 | 4,06 | | | 9,00 (2,90 - 10,10) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 3,33) | 1330 | 12,70 | 1,79 | 3,91 | 4,70 | | | 10,40 (2,70 - 13,60) | 4,28 | **4,20** A+ | 2,43 (0,24 - 3,85) | 1215 | 11,40 |
| 16 + 35 + 50 | 1,42 | 3,12 | 4,46 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,34) | 1205 | 11,50 | 1,65 | 3,60 | 5,15 | | | 10,40 (2,70 - 13,60) | 4,58 | **4,20** A+ | 2,27 (0,25 - 3,59) | 1135 | 10,70 |
| 16 + 35 + 60 | 1,30 | 2,84 | 4,86 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,34) | 1205 | 11,50 | 1,50 | 3,28 | 5,62 | | | 10,40 (2,70 - 13,80) | 4,58 | **4,20** A+ | 2,27 (0,25 - 3,71) | 1135 | 10,70 |
| 16 + 35 + 71 | 1,18 | 2,58 | 5,24 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,20) | 1175 | 11,20 | 1,36 | 2,98 | 6,06 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,69) | 1130 | 10,60 |
| 16 + 42 + 42 | 1,44 | 3,78 | 3,78 | | | 9,00 (2,90 - 10,70) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 3,91) | 1330 | 12,70 | 1,66 | 4,37 | 4,37 | | | 10,40 (2,70 - 13,60) | 4,30 | **4,20** A+ | 2,42 (0,24 - 3,78) | 1210 | 11,40 |
| 16 + 42 + 50 | 1,33 | 3,50 | 4,17 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,54 | 4,04 | 4,82 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 16 + 42 + 60 | 1,22 | 3,20 | 4,58 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,41 | 3,70 | 5,29 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 16 + 42 + 71 | 1,12 | 2,93 | 4,95 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 1,29 | 3,39 | 5,72 | | | 10,40 (2,70 - 14,10) | 4,62 | **4,20** A+ | 2,25 (0,27 - 3,80) | 1125 | 10,60 |
| 16 + 50 + 50 | 1,24 | 3,88 | 3,88 | | | 9,00 (2,90 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,37 - 2,94) | 1080 | 10,30 | 1,44 | 4,48 | 4,48 | | | 10,40 (2,70 - 13,80) | 4,79 | **4,20** A+ | 2,17 (0,30 - 3,50) | 1085 | 10,20 |
| 16 + 50 + 60 | 1,14 | 3,57 | 4,29 | | | 9,00 (2,90 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,37 - 2,94) | 1080 | 10,30 | 1,32 | 4,13 | 4,95 | | | 10,40 (2,70 - 13,80) | 4,79 | **4,20** A+ | 2,17 (0,30 - 3,50) | 1085 | 10,20 |
| 16 + 50 + 71 | 1,05 | 3,28 | 4,67 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,21 | 3,80 | 5,39 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 16 + 60 + 60 | 1,06 | 3,97 | 3,97 | | | 9,00 (3,00 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,40 - 2,94) | 1080 | 10,30 | 1,22 | 4,59 | 4,59 | | | 10,40 (2,70 - 14,10) | 4,79 | **4,20** A+ | 2,17 (0,30 - 3,67) | 1085 | 10,20 |
| 16 + 60 + 71 | 0,98 | 3,67 | 4,35 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,13 | 4,24 | 5,03 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 16 + 71 + 71 | 0,92 | 4,04 | 4,04 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,40 - 2,81) | 1055 | 10,10 | 1,06 | 4,67 | 4,67 | | | 10,40 (2,70 - 14,40) | 4,75 | **4,20** A+ | 2,19 (0,32 - 3,75) | 1095 | 10,30 |
| 20 + 20 + 20 | 2,00 | 2,00 | 2,00 | | | 6,00 (2,90 - 8,50) | 4,32 | **7,20** A+++ | 1,39 (0,31 - 2,55) | 695 | 6,70 | 2,86 | 2,86 | 2,86 | | | 8,58 (2,70 - 12,30) | 4,33 | **4,10** A+ | 1,98 (0,23 - 3,35) | 990 | 9,30 |
| 20 + 20 + 25 | 2,00 | 2,00 | 2,50 | | | 6,50 (2,90 - 8,50) | 4,06 | **7,20** A+++ | 1,60 (0,31 - 2,55) | 800 | 7,70 | 2,77 | 2,77 | 3,46 | | | 9,00 (2,70 - 12,30) | 4,25 | **4,10** A+ | 2,12 (0,23 - 3,35) | 1060 | 10,00 |
| 20 + 20 + 35 | 2,00 | 2,00 | 3,50 | | | 7,50 (2,90 - 8,50) | 3,85 | **7,20** A+++ | 1,95 (0,34 - 2,49) | 975 | 9,30 | 2,61 | 2,61 | 4,58 | | | 9,80 (2,70 - 12,30) | 4,12 | **4,10** A+ | 2,38 (0,23 - 3,26) | 1190 | 11,20 |
| 20 + 20 + 42 | 2,00 | 2,00 | 4,20 | | | 8,20 (2,90 - 8,70) | 3,57 | **7,20** A+++ | 2,30 (0,34 - 2,54) | 1150 | 11,00 | 2,54 | 2,54 | 5,32 | | | 10,40 (2,70 - 12,90) | 4,24 | **4,10** A+ | 2,45 (0,23 - 3,53) | 1225 | 11,50 |
| 20 + 20 + 50 | 2,00 | 2,00 | 5,00 | | | 9,00 (2,90 - 9,60) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 2,62) | 1205 | 11,50 | 2,31 | 2,31 | 5,78 | | | 10,40 (2,70 - 13,60) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,62) | 1145 | 10,80 |
| 20 + 20 + 60 | 1,80 | 1,80 | 5,40 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,41) | 1205 | 11,50 | 2,08 | 2,08 | 6,24 | | | 10,40 (2,70 - 13,60) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,62) | 1145 | 10,80 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R32 combinations table

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 20+20+71 | 1,62 | 1,62 | 5,76 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 1,87 | 1,87 | 6,66 | | | 10,40 (2,70 - 13,80) | 4,56 | **4,20** A+ | 2,28 (0,25 - 3,71) | 1140 | 10,70 |
| 20+25+25 | 2,00 | 2,50 | 2,50 | | | 7,00 (2,90 - 8,50) | 3,93 | **7,20** A+++ | 1,78 (0,31 - 2,55) | 890 | 8,50 | 2,68 | 3,36 | 3,36 | | | 9,40 (2,70 - 12,30) | 4,16 | **4,10** A+ | 2,26 (0,23 - 3,35) | 1130 | 10,60 |
| 20+25+35 | 2,00 | 2,50 | 3,50 | | | 8,00 (2,90 - 8,50) | 3,67 | **7,20** A+++ | 2,18 (0,34 - 2,49) | 1090 | 10,40 | 2,55 | 3,19 | 4,46 | | | 10,20 (2,70 - 12,90) | 4,16 | **4,10** A+ | 2,45 (0,23 - 3,54) | 1225 | 11,50 |
| 20+25+42 | 2,00 | 2,50 | 4,20 | | | 8,70 (2,90 - 9,60) | 3,43 | **7,20** A+++ | 2,54 (0,34 - 3,00) | 1270 | 12,20 | 2,39 | 2,99 | 5,02 | | | 10,40 (2,70 - 13,60) | 4,24 | **4,20** A+ | 2,45 (0,23 - 3,87) | 1225 | 11,50 |
| 20+25+50 | 1,89 | 2,37 | 4,74 | | | 9,00 (2,90 - 10,10) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 2,94) | 1205 | 11,50 | 2,19 | 2,74 | 5,47 | | | 10,40 (2,70 - 13,60) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,62) | 1145 | 10,80 |
| 20+25+60 | 1,71 | 2,14 | 5,15 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,41) | 1205 | 11,50 | 1,98 | 2,48 | 5,94 | | | 10,40 (2,70 - 13,80) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,73) | 1145 | 10,80 |
| 20+25+71 | 1,55 | 1,94 | 5,51 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 1,79 | 2,24 | 6,37 | | | 10,40 (2,70 - 13,80) | 4,56 | **4,20** A+ | 2,28 (0,25 - 3,71) | 1140 | 10,70 |
| 20+35+35 | 2,00 | 3,50 | 3,50 | | | 9,00 (2,90 - 9,60) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 2,93) | 1330 | 12,70 | 2,32 | 4,04 | 4,04 | | | 10,40 (2,70 - 13,60) | 4,28 | **4,20** A+ | 2,43 (0,24 - 3,85) | 1215 | 11,40 |
| 20+35+42 | 1,85 | 3,25 | 3,90 | | | 9,00 (2,90 - 10,70) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 3,91) | 1330 | 12,70 | 2,14 | 3,75 | 4,51 | | | 10,40 (2,70 - 13,60) | 4,30 | **4,20** A+ | 2,42 (0,24 - 3,78) | 1210 | 11,40 |
| 20+35+50 | 1,71 | 3,00 | 4,29 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,98 | 3,47 | 4,95 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 20+35+60 | 1,56 | 2,74 | 4,70 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 1,81 | 3,17 | 5,42 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 20+35+71 | 1,43 | 2,50 | 5,07 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 1,65 | 2,89 | 5,86 | | | 10,40 (2,70 - 13,80) | 4,62 | **4,20** A+ | 2,25 (0,27 - 3,68) | 1125 | 10,60 |
| 20+42+42 | 1,74 | 3,63 | 3,63 | | | 9,00 (2,90 - 10,70) | 3,46 | **7,20** A+++ | 2,60 (0,34 - 3,91) | 1300 | 12,40 | 2,00 | 4,20 | 4,20 | | | 10,40 (2,70 - 13,60) | 4,32 | **4,20** A+ | 2,41 (0,24 - 3,77) | 1205 | 11,30 |
| 20+42+50 | 1,60 | 3,38 | 4,02 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 1,86 | 3,90 | 4,64 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,68) | 1130 | 10,60 |
| 20+42+60 | 1,47 | 3,10 | 4,43 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 1,70 | 3,58 | 5,12 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,68) | 1130 | 10,60 |
| 20+42+71 | 1,35 | 2,84 | 4,81 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 1,56 | 3,28 | 5,56 | | | 10,40 (2,70 - 14,10) | 4,64 | **4,20** A+ | 2,24 (0,27 - 3,78) | 1120 | 10,50 |
| 20+50+50 | 1,50 | 3,75 | 3,75 | | | 9,00 (2,90 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,37 - 2,94) | 1080 | 10,30 | 1,74 | 4,33 | 4,33 | | | 10,40 (2,70 - 13,80) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,48) | 1080 | 10,20 |
| 20+50+60 | 1,38 | 3,46 | 4,16 | | | 9,00 (2,90 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,37 - 2,94) | 1080 | 10,30 | 1,60 | 4,00 | 4,80 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 20+50+71 | 1,28 | 3,19 | 4,53 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,48 | 3,69 | 5,23 | | | 10,40 (2,70 - 14,10) | 4,75 | **4,20** A+ | 2,19 (0,32 - 3,64) | 1095 | 10,30 |
| 20+60+60 | 1,28 | 3,86 | 3,86 | | | 9,00 (3,00 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,40 - 2,94) | 1080 | 10,30 | 1,48 | 4,46 | 4,46 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 20+60+71 | 1,19 | 3,58 | 4,23 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,38 | 4,13 | 4,89 | | | 10,40 (2,70 - 14,40) | 4,75 | **4,20** A+ | 2,19 (0,32 - 3,75) | 1095 | 10,30 |
| 20+71+71 | 1,12 | 3,94 | 3,94 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,41 - 2,81) | 1055 | 10,10 | 1,28 | 4,56 | 4,56 | | | 10,40 (2,70 - 14,40) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,74) | 1090 | 10,20 |
| 25+25+25 | 2,50 | 2,50 | 2,50 | | | 7,50 (2,90 - 8,50) | 3,73 | **7,20** A+++ | 2,01 (0,31 - 2,55) | 1005 | 9,60 | 3,23 | 3,23 | 3,23 | | | 9,69 (2,70 - 12,30) | 4,02 | **4,10** A+ | 2,41 (0,23 - 3,35) | 1205 | 11,30 |
| 25+25+35 | 2,50 | 2,50 | 3,50 | | | 8,50 (2,90 - 9,60) | 3,41 | **7,20** A+++ | 2,49 (0,34 - 3,00) | 1245 | 11,90 | 3,06 | 3,06 | 4,28 | | | 10,40 (2,70 - 13,60) | 4,23 | **4,20** A+ | 2,46 (0,23 - 3,89) | 1230 | 11,60 |
| 25+25+42 | 2,45 | 2,45 | 4,10 | | | 9,00 (2,90 - 10,10) | 3,30 | **7,20** A+++ | 2,73 (0,34 - 3,40) | 1365 | 13,10 | 2,83 | 2,83 | 4,74 | | | 10,40 (2,70 - 13,60) | 4,24 | **4,20** A+ | 2,45 (0,23 - 3,87) | 1225 | 11,50 |
| 25+25+50 | 2,25 | 2,25 | 4,50 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,41) | 1205 | 11,50 | 2,60 | 2,60 | 5,20 | | | 10,40 (2,70 - 13,60) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,62) | 1145 | 10,80 |
| 25+25+60 | 2,05 | 2,05 | 4,90 | | | 9,00 (2,90 - 10,70) | 3,73 | **7,20** A+++ | 2,41 (0,34 - 3,41) | 1205 | 11,50 | 2,36 | 2,36 | 5,68 | | | 10,40 (2,70 - 13,80) | 4,54 | **4,20** A+ | 2,29 (0,25 - 3,73) | 1145 | 10,80 |
| 25+25+71 | 1,86 | 1,86 | 5,28 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 2,15 | 2,15 | 6,10 | | | 10,40 (2,70 - 13,80) | 4,56 | **4,20** A+ | 2,28 (0,25 - 3,71) | 1140 | 10,70 |
| 25+35+35 | 2,36 | 3,32 | 3,32 | | | 9,00 (2,90 - 10,10) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 3,33) | 1330 | 12,70 | 2,74 | 3,83 | 3,83 | | | 10,40 (2,70 - 13,60) | 4,28 | **4,20** A+ | 2,43 (0,24 - 3,85) | 1215 | 11,40 |
| 25+35+42 | 2,20 | 3,09 | 3,71 | | | 9,00 (2,90 - 10,70) | 3,38 | **7,20** A+++ | 2,66 (0,34 - 3,91) | 1330 | 12,70 | 2,55 | 3,57 | 4,28 | | | 10,40 (2,70 - 13,60) | 4,30 | **4,20** A+ | 2,42 (0,24 - 3,78) | 1210 | 11,40 |
| 25+35+50 | 2,05 | 2,86 | 4,09 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 2,36 | 3,31 | 4,73 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 25+35+60 | 1,87 | 2,63 | 4,50 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,34) | 1175 | 11,20 | 2,17 | 3,03 | 5,20 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,70) | 1130 | 10,60 |
| 25+35+71 | 1,72 | 2,40 | 4,88 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 1,98 | 2,78 | 5,64 | | | 10,40 (2,70 - 14,10) | 4,62 | **4,20** A+ | 2,25 (0,27 - 3,80) | 1125 | 10,60 |
| 25+42+42 | 2,06 | 3,47 | 3,47 | | | 9,00 (2,90 - 10,70) | 3,46 | **7,20** A+++ | 2,60 (0,34 - 3,91) | 1300 | 12,40 | 2,38 | 4,01 | 4,01 | | | 10,40 (2,70 - 13,80) | 4,32 | **4,20** A+ | 2,41 (0,24 - 3,89) | 1205 | 11,30 |
| 25+42+50 | 1,92 | 3,23 | 3,85 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 2,22 | 3,73 | 4,45 | | | 10,40 (2,70 - 13,80) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,68) | 1130 | 10,60 |
| 25+42+60 | 1,77 | 2,98 | 4,25 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,27) | 1175 | 11,20 | 2,05 | 3,44 | 4,91 | | | 10,40 (2,70 - 14,10) | 4,60 | **4,20** A+ | 2,26 (0,27 - 3,80) | 1130 | 10,60 |
| 25+42+71 | 1,63 | 2,74 | 4,63 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 1,88 | 3,17 | 5,35 | | | 10,40 (2,70 - 14,10) | 4,64 | **4,20** A+ | 2,24 (0,27 - 3,78) | 1120 | 10,50 |
| 25+50+50 | 1,80 | 3,60 | 3,60 | | | 9,00 (2,90 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,37 - 2,94) | 1080 | 10,30 | 2,08 | 4,16 | 4,16 | | | 10,40 (2,70 - 13,80) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,48) | 1080 | 10,20 |
| 25+50+60 | 1,67 | 3,33 | 4,00 | | | 9,00 (3,00 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,40 - 2,94) | 1080 | 10,30 | 1,93 | 3,85 | 4,62 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 25+50+71 | 1,54 | 3,08 | 4,38 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,78 | 3,56 | 5,06 | | | 10,40 (2,70 - 14,10) | 4,75 | **4,20** A+ | 2,19 (0,32 - 3,64) | 1095 | 10,30 |
| 25+60+60 | 1,56 | 3,72 | 3,72 | | | 9,00 (3,00 - 10,70) | 4,17 | **7,20** A+++ | 2,16 (0,40 - 2,94) | 1080 | 10,30 | 1,80 | 4,30 | 4,30 | | | 10,40 (2,70 - 14,10) | 4,81 | **4,20** A+ | 2,16 (0,31 - 3,65) | 1080 | 10,20 |
| 25+60+71 | 1,44 | 3,46 | 4,10 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 1,67 | 4,00 | 4,73 | | | 10,40 (2,70 - 14,40) | 4,75 | **4,20** A+ | 2,19 (0,32 - 3,75) | 1095 | 10,30 |
| 25+71+71 | 1,34 | 3,83 | 3,83 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,41 - 2,81) | 1055 | 10,10 | 1,56 | 4,42 | 4,42 | | | 10,40 (2,70 - 14,40) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,74) | 1090 | 10,20 |
| 35+35+35 | 3,00 | 3,00 | 3,00 | | | 9,00 (2,90 - 10,70) | 3,46 | **7,20** A+++ | 2,60 (0,34 - 3,83) | 1300 | 12,40 | 3,46 | 3,46 | 3,46 | | | 10,38 (2,70 - 13,80) | 4,40 | **4,20** A+ | 2,36 (0,24 - 3,88) | 1180 | 11,10 |
| 35+35+42 | 2,81 | 2,81 | 3,38 | | | 9,00 (2,90 - 10,70) | 3,46 | **7,20** A+++ | 2,60 (0,34 - 3,76) | 1300 | 12,40 | 3,25 | 3,25 | 3,90 | | | 10,40 (2,70 - 13,80) | 4,43 | **4,20** A+ | 2,35 (0,24 - 3,87) | 1175 | 11,00 |
| 35+35+50 | 2,63 | 2,63 | 3,74 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,20) | 1175 | 11,20 | 3,03 | 3,03 | 4,34 | | | 10,40 (2,70 - 13,80) | 4,64 | **4,20** A+ | 2,24 (0,27 - 3,66) | 1120 | 10,50 |
| 35+35+60 | 2,42 | 2,42 | 4,16 | | | 9,00 (2,90 - 10,70) | 3,83 | **7,20** A+++ | 2,35 (0,34 - 3,20) | 1175 | 11,20 | 2,80 | 2,80 | 4,80 | | | 10,40 (2,70 - 14,10) | 4,64 | **4,20** A+ | 2,24 (0,27 - 3,78) | 1120 | 10,50 |
| 35+35+71 | 2,23 | 2,23 | 4,54 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,14) | 1140 | 10,90 | 2,58 | 2,58 | 5,24 | | | 10,40 (2,70 - 14,10) | 4,66 | **4,20** A+ | 2,23 (0,27 - 3,76) | 1115 | 10,50 |
| 35+42+42 | 2,64 | 3,18 | 3,18 | | | 9,00 (2,90 - 10,70) | 3,56 | **7,20** A+++ | 2,53 (0,34 - 3,76) | 1265 | 12,10 | 3,06 | 3,67 | 3,67 | | | 10,40 (2,70 - 13,80) | 4,44 | **4,20** A+ | 2,34 (0,25 - 3,85) | 1170 | 11,00 |
| 35+42+50 | 2,48 | 2,98 | 3,54 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 2,87 | 3,44 | 4,09 | | | 10,40 (2,70 - 14,10) | 4,66 | **4,20** A+ | 2,23 (0,27 - 3,77) | 1115 | 10,50 |
| 35+42+60 | 2,30 | 2,76 | 3,94 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 2,66 | 3,19 | 4,55 | | | 10,40 (2,70 - 14,10) | 4,66 | **4,20** A+ | 2,23 (0,27 - 3,77) | 1115 | 10,50 |
| 35+42+71 | 2,13 | 2,55 | 4,32 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,14) | 1140 | 10,90 | 2,46 | 2,95 | 4,99 | | | 10,40 (2,70 - 14,10) | 4,68 | **4,20** A+ | 2,22 (0,28 - 3,75) | 1110 | 10,40 |
| 35+50+50 | 2,34 | 3,33 | 3,33 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 2,70 | 3,85 | 3,85 | | | 10,40 (2,70 - 14,10) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,62) | 1090 | 10,20 |
| 35+50+60 | 2,17 | 3,10 | 3,73 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 2,51 | 3,59 | 4,30 | | | 10,40 (2,70 - 14,10) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,62) | 1090 | 10,20 |
| 35+50+71 | 2,02 | 2,88 | 4,10 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,40 - 2,81) | 1055 | 10,10 | 2,33 | 3,33 | 4,74 | | | 10,40 (2,70 - 14,40) | 4,79 | **4,20** A+ | 2,17 (0,33 - 3,72) | 1085 | 10,20 |
| 35+60+60 | 2,04 | 3,48 | 3,48 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 2,34 | 4,03 | 4,03 | | | 10,40 (2,70 - 14,40) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,74) | 1090 | 10,20 |
| 35+60+71 | 1,90 | 3,25 | 3,85 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,40 - 2,81) | 1055 | 10,10 | 2,19 | 3,76 | 4,45 | | | 10,40 (2,70 - 14,40) | 4,79 | **4,20** A+ | 2,17 (0,33 - 3,72) | 1085 | 10,20 |
| 35+71+71 | 1,78 | 3,61 | 3,61 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,43 - 2,81) | 1055 | 10,10 | 2,06 | 4,17 | 4,17 | | | 10,40 (2,70 - 14,40) | 4,81 | **4,20** A+ | 2,16 (0,34 - 3,70) | 1080 | 10,20 |
| 42+42+42 | 3,00 | 3,00 | 3,00 | | | 9,00 (2,90 - 10,70) | 3,56 | **7,20** A+++ | 2,53 (0,34 - 3,69) | 1265 | 12,10 | 3,46 | 3,46 | 3,46 | | | 10,38 (2,70 - 13,80) | 4,45 | **4,20** A+ | 2,33 (0,25 - 3,78) | 1165 | 10,90 |
| 42+42+50 | 2,82 | 2,82 | 3,36 | | | 9,00 (2,90 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 3,26 | 3,26 | 3,88 | | | 10,40 (2,70 - 14,10) | 4,68 | **4,20** A+ | 2,22 (0,28 - 3,75) | 1110 | 10,40 |
| 42+42+60 | 2,63 | 2,63 | 3,74 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,20) | 1140 | 10,90 | 3,03 | 3,03 | 4,34 | | | 10,40 (2,70 - 14,10) | 4,68 | **4,20** A+ | 2,22 (0,28 - 3,75) | 1110 | 10,40 |
| 42+42+71 | 2,44 | 2,44 | 4,12 | | | 9,00 (3,00 - 10,70) | 3,95 | **7,20** A+++ | 2,28 (0,37 - 3,07) | 1140 | 10,90 | 2,82 | 2,82 | 4,76 | | | 10,40 (2,70 - 14,40) | 4,71 | **4,20** A+ | 2,21 (0,28 - 3,85) | 1105 | 10,40 |
| 42+50+50 | 2,66 | 3,17 | 3,17 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 3,08 | 3,66 | 3,66 | | | 10,40 (2,70 - 14,10) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,61) | 1090 | 10,20 |
| 42+50+60 | 2,49 | 2,96 | 3,55 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 2,87 | 3,42 | 4,11 | | | 10,40 (2,70 - 14,40) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,72) | 1090 | 10,20 |
| 42+50+71 | 2,32 | 2,76 | 3,92 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,41 - 2,81) | 1055 | 10,10 | 2,68 | 3,19 | 4,53 | | | 10,40 (2,70 - 14,40) | 4,79 | **4,20** A+ | 2,17 (0,34 - 3,71) | 1085 | 10,20 |
| 42+60+60 | 2,34 | 3,33 | 3,33 | | | 9,00 (3,00 - 10,70) | 4,15 | **7,20** A+++ | 2,17 (0,40 - 2,87) | 1085 | 10,40 | 2,70 | 3,85 | 3,85 | | | 10,40 (2,70 - 14,40) | 4,77 | **4,20** A+ | 2,18 (0,33 - 3,72) | 1090 | 10,20 |
| 42+60+71 | 2,18 | 3,12 | 3,70 | | | 9,00 (3,00 - 10,70) | 4,27 | **7,20** A+++ | 2,11 (0,41 - 2,81) | 1055 | 10,10 | 2,52 | 3,61 | 4,27 | | | 10,40 (2,70 - 14,40) | 4,79 | **4,20** A+ | 2,17 (0,34 - 3,71) | 1085 | 10,20 |
| 50+50+50 | 3,00 | 3,00 | 3,00 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,44 - 2,68) | 1030 | 9,90 | 3,46 | 3,46 | 3,46 | | | 10,38 (2,70 - 14,40) | 4,83 | **4,20** A+ | 2,15 (0,40 - 3,64) | 1075 | 10,10 |
| 50+50+60 | 2,81 | 2,81 | 3,38 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,44 - 2,68) | 1030 | 9,90 | 3,25 | 3,25 | 3,90 | | | 10,40 (2,70 - 14,40) | 4,84 | **4,20** A+ | 2,15 (0,40 - 3,64) | 1075 | 10,10 |
| 50+50+71 | 2,63 | 2,63 | 3,74 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,47 - 2,69) | 1030 | 9,90 | 3,04 | 3,04 | 4,32 | | | 10,40 (2,70 - 14,40) | 4,86 | **4,20** A+ | 2,14 (0,41 - 3,63) | 1070 | 10,10 |
| 50+60+60 | 2,64 | 3,18 | 3,18 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,44 - 2,68) | 1030 | 9,90 | 3,06 | 3,67 | 3,67 | | | 10,40 (2,70 - 14,40) | 4,84 | **4,20** A+ | 2,15 (0,40 - 3,64) | 1075 | 10,10 |
| 50+60+71 | 2,49 | 2,98 | 3,53 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,47 - 2,69) | 1030 | 9,90 | 2,87 | 3,45 | 4,08 | | | 10,40 (2,70 - 14,40) | 4,86 | **4,20** A+ | 2,14 (0,41 - 3,63) | 1070 | 10,10 |
| 60+60+60 | 3,00 | 3,00 | 3,00 | | | 9,00 (3,00 - 10,70) | 4,37 | **7,20** A+++ | 2,06 (0,44 - 2,68) | 1030 | 9,90 | 3,46 | 3,46 | 3,46 | | | 10,38 (2,70 - 14,40) | 4,83 | **4,20** A+ | 2,15 (0,40 - 3,64) | 1075 | 10,10 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | | 6,40 (2,90 - 10,60) | 4,57 | **8,50** A+++ | 1,40 (0,37 - 3,48) | 700 | 6,80 | 2,35 | 2,35 | 2,35 | 2,35 | | 9,40 (3,40 - 14,20) | 4,54 | **4,10** A+ | 2,07 (0,34 - 3,84) | 1035 | 9,70 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | | 6,80 (2,90 - 10,60) | 4,42 | **8,50** A+++ | 1,54 (0,37 - 3,48) | 770 | 7,40 | 2,33 | 2,33 | 2,33 | 2,91 | | 9,90 (3,40 - 14,20) | 4,50 | **4,10** A+ | 2,20 (0,34 - 3,83) | 1100 | 10,30 |
| 16+16+16+25 | 1,60 | 1,60 | 1,60 | 2,50 | | 7,30 (2,90 - 10,60) | 4,29 | **8,00** A+++ | 1,70 (0,37 - 3,48) | 850 | 8,20 | 2,26 | 2,26 | 2,26 | 3,52 | | 10,30 (3,40 - 14,20) | 4,70 | **4,20** A+ | 2,19 (0,34 - 3,83) | 1095 | 10,30 |
| 16+16+16+35 | 1,60 | 1,60 | 1,60 | 3,50 | | 8,30 (2,90 - 10,60) | 3,97 | **8,00** A+++ | 2,09 (0,37 - 3,40) | 1045 | 10,00 | 2,00 | 2,00 | 2,00 | 4,40 | | 10,40 (3,40 - 14,20) | 4,71 | **4,20** A+ | 2,21 (0,34 - 3,80) | 1105 | 10,40 |
| 16+16+16+42 | 1,60 | 1,60 | 1,60 | 4,20 | | 9,00 (2,90 - 10,60) | 3,78 | **8,00** A+++ | 2,38 (0,37 - 3,40) | 1190 | 11,40 | 1,85 | 1,85 | 1,85 | 4,85 | | 10,40 (3,40 - 14,20) | 4,73 | **4,40** A+ | 2,20 (0,34 - 3,78) | 1100 | 10,30 |
| 16+16+16+50 | 1,47 | 1,47 | 1,47 | 4,59 | | 9,00 (2,90 - 10,60) | 4,00 | **8,00** A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,70 | 1,70 | 1,70 | 5,30 | | 10,40 (3,40 - 14,20) | 4,81 | **4,40** A+ | 2,16 (0,39 - 3,64) | 1080 | 10,20 |
| 16+16+16+60 | 1,33 | 1,33 | 1,33 | 5,01 | | 9,00 (2,90 - 10,60) | 4,00 | **8,00** A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,54 | 1,54 | 1,54 | 5,78 | | 10,40 (3,40 - 14,20) | 4,81 | **4,40** A+ | 2,16 (0,39 - 3,64) | 1080 | 10,20 |
| 16+16+16+71 | 1,21 | 1,21 | 1,21 | 5,37 | | 9,00 (2,90 - 10,60) | 3,98 | **8,00** A+++ | 2,26 (0,41 - 3,04) | 1130 | 10,80 | 1,40 | 1,40 | 1,40 | 6,20 | | 10,40 (3,40 - 14,20) | 4,84 | **4,40** A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+16+20+20 | 1,60 | 1,60 | 2,00 | 2,00 | | 7,20 (2,90 - 10,60) | 4,36 | **8,00** A+++ | 1,65 (0,37 - 3,40) | 825 | 8,00 | 2,31 | 2,31 | 2,89 | 2,89 | | 10,40 (3,40 - 14,20) | 4,66 | **4,20** A+ | 2,23 (0,34 - 3,82) | 1115 | 10,50 |
| 16+16+20+25 | 1,60 | 1,60 | 2,00 | 2,50 | | 7,70 (2,90 - 10,60) | 4,16 | **8,00** A+++ | 1,85 (0,37 - 3,40) | 925 | 8,90 | 2,16 | 2,16 | 2,70 | 3,38 | | 10,40 (3,40 - 14,20) | 4,66 | **4,20** A+ | 2,23 (0,34 - 3,82) | 1115 | 10,50 |
| 16+16+20+35 | 1,60 | 1,60 | 2,00 | 3,50 | | 8,70 (2,90 - 10,60) | 3,87 | **8,00** A+++ | 2,25 (0,37 - 3,33) | 1125 | 10,80 | 1,91 | 1,91 | 2,39 | 4,19 | | 10,40 (3,40 - 14,20) | 4,73 | **4,20** A+ | 2,20 (0,34 - 3,78) | 1100 | 10,30 |
| 16+16+20+42 | 1,53 | 1,53 | 1,91 | 4,03 | | 9,00 (2,90 - 10,60) | 3,78 | **8,00** A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,77 | 1,77 | 2,21 | 4,65 | | 10,40 (3,40 - 14,20) | 4,73 | **4,40** A+ | 2,20 (0,34 - 3,77) | 1100 | 10,30 |
| 16+16+20+50 | 1,41 | 1,41 | 1,76 | 4,42 | | 9,00 (2,90 - 10,60) | 4,00 | **8,00** A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,63 | 1,63 | 2,04 | 5,10 | | 10,40 (3,40 - 14,20) | 4,84 | **4,40** A+ | 2,15 (0,40 - 3,63) | 1075 | 10,10 |
| 16+16+20+60 | 1,29 | 1,29 | 1,60 | 4,82 | | 9,00 (2,90 - 10,60) | 4,00 | **8,00** A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,49 | 1,49 | 1,86 | 5,56 | | 10,40 (3,40 - 14,20) | 4,84 | **4,40** A+ | 2,15 (0,40 - 3,63) | 1075 | 10,10 |
| 16+16+20+71 | 1,17 | 1,17 | 1,46 | 5,20 | | 9,00 (2,90 - 10,80) | 3,98 | **8,00** A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,35 | 1,35 | 1,69 | 6,01 | | 10,40 (3,40 - 14,20) | 4,84 | **4,40** A+ | 2,15 (0,40 - 3,61) | 1075 | 10,10 |

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+16+25+25 | 1,60 | 1,60 | 2,50 | 2,50 | | 8,20 (2,90 - 10,60) | 4,04 | 8,00 A+++ | 2,03 (0,37 - 3,40) | 1015 | 9,70 | 2,03 | 2,03 | 3,17 | 3,17 | | 10,40 (3,40 - 14,20) | 4,66 | 4,20 A+ | 2,23 (0,34 - 3,82) | 1115 | 10,50 |
| 16+16+25+35 | 1,57 | 1,57 | 2,44 | 3,42 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,81 | 1,81 | 2,83 | 3,95 | | 10,40 (3,40 - 14,20) | 4,73 | 4,40 A+ | 2,20 (0,34 - 3,78) | 1100 | 10,30 |
| 16+16+25+42 | 1,45 | 1,45 | 2,27 | 3,83 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,68 | 1,68 | 2,63 | 4,41 | | 10,40 (3,40 - 14,20) | 4,73 | 4,40 A+ | 2,20 (0,34 - 3,77) | 1100 | 10,30 |
| 16+16+25+50 | 1,35 | 1,35 | 2,09 | 4,21 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,56 | 1,56 | 2,43 | 4,85 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,63) | 1075 | 10,10 |
| 16+16+25+60 | 1,23 | 1,23 | 1,92 | 4,62 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,11) | 1125 | 10,80 | 1,42 | 1,42 | 2,22 | 5,34 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,63) | 1075 | 10,10 |
| 16+16+25+71 | 1,13 | 1,13 | 1,75 | 4,99 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,30 | 1,30 | 2,03 | 5,77 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,67) | 1075 | 10,10 |
| 16+16+35+35 | 1,41 | 1,41 | 3,09 | 3,09 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,63 | 1,63 | 3,57 | 3,57 | | 10,40 (3,40 - 14,20) | 4,77 | 4,40 A+ | 2,18 (0,36 - 3,75) | 1090 | 10,20 |
| 16+16+35+42 | 1,32 | 1,32 | 2,89 | 3,47 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,53 | 1,53 | 3,34 | 4,00 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,36 - 3,68) | 1085 | 10,20 |
| 16+16+35+50 | 1,23 | 1,23 | 2,69 | 3,85 | | 9,00 (2,90 - 10,60) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,04) | 1130 | 10,80 | 1,42 | 1,42 | 3,11 | 4,45 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,59) | 1070 | 10,10 |
| 16+16+35+60 | 1,13 | 1,13 | 2,48 | 4,26 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,31 | 1,31 | 2,87 | 4,91 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,59) | 1070 | 10,10 |
| 16+16+35+71 | 1,04 | 1,04 | 2,28 | 4,64 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,21 | 1,21 | 2,64 | 5,34 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 16+16+42+42 | 1,24 | 1,24 | 3,26 | 3,26 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,43 | 1,43 | 3,77 | 3,77 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 16+16+42+50 | 1,16 | 1,16 | 3,05 | 3,63 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,34 | 1,34 | 3,52 | 4,20 | | 10,40 (3,40 - 14,20) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,58) | 1065 | 10,00 |
| 16+16+42+60 | 1,07 | 1,07 | 2,82 | 4,04 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,24 | 1,24 | 3,26 | 4,66 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 16+16+42+71 | 0,99 | 0,99 | 2,61 | 4,41 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,15 | 1,15 | 3,01 | 5,09 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 16+16+50+50 | 1,09 | 1,09 | 3,41 | 3,41 | | 9,00 (2,90 - 10,80) | 4,07 | 8,00 A+++ | 2,21 (0,48 - 2,98) | 1105 | 10,60 | 1,26 | 1,26 | 3,94 | 3,94 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,49 - 3,57) | 1080 | 10,20 |
| 16+16+50+60 | 1,01 | 1,01 | 3,17 | 3,81 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,48 - 3,12) | 1105 | 10,60 | 1,17 | 1,17 | 3,66 | 4,40 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,49 - 3,57) | 1080 | 10,20 |
| 16+16+50+71 | 0,94 | 0,94 | 2,94 | 4,18 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,12) | 1105 | 10,60 | 1,09 | 1,09 | 3,40 | 4,82 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,55) | 1075 | 10,10 |
| 16+16+60+60 | 0,95 | 0,95 | 3,55 | 3,55 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,48 - 3,12) | 1105 | 10,60 | 1,09 | 1,09 | 4,11 | 4,11 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,49 - 3,57) | 1080 | 10,20 |
| 16+16+60+71 | 0,88 | 0,88 | 3,31 | 3,93 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,02 | 1,02 | 3,83 | 4,53 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,55) | 1075 | 10,10 |
| 16+16+71+71 | 0,83 | 0,83 | 3,67 | 3,67 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 0,96 | 0,96 | 4,24 | 4,24 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,51 - 3,60) | 1070 | 10,10 |
| 16+20+20+20 | 1,60 | 2,00 | 2,00 | 2,00 | | 7,60 (2,90 - 10,60) | 4,18 | 8,00 A+++ | 1,82 (0,37 - 3,40) | 910 | 8,70 | 2,18 | 2,74 | 2,74 | 2,74 | | 10,40 (3,40 - 14,20) | 4,68 | 4,20 A+ | 2,22 (0,34 - 3,81) | 1110 | 10,40 |
| 16+20+20+25 | 1,60 | 2,00 | 2,00 | 2,50 | | 8,10 (2,90 - 10,60) | 4,11 | 8,00 A+++ | 1,97 (0,37 - 3,40) | 985 | 9,40 | 2,05 | 2,57 | 2,57 | 3,21 | | 10,40 (3,40 - 14,20) | 4,68 | 4,20 A+ | 2,22 (0,34 - 3,81) | 1110 | 10,40 |
| 16+20+20+35 | 1,58 | 1,98 | 1,98 | 3,46 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,83 | 2,29 | 2,29 | 3,99 | | 10,40 (3,40 - 14,20) | 4,73 | 4,40 A+ | 2,20 (0,34 - 3,77) | 1100 | 10,30 |
| 16+20+20+42 | 1,46 | 1,84 | 1,84 | 3,86 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,70 | 2,12 | 2,12 | 4,46 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 16+20+20+50 | 1,35 | 1,70 | 1,70 | 4,25 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,57 | 1,96 | 1,96 | 4,91 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+20+20+60 | 1,24 | 1,55 | 1,55 | 4,66 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,43 | 1,79 | 1,79 | 5,39 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+20+20+71 | 1,13 | 1,42 | 1,42 | 5,03 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,31 | 1,64 | 1,64 | 5,81 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 16+20+25+25 | 1,60 | 2,00 | 2,50 | 2,50 | | 8,60 (2,90 - 10,60) | 3,89 | 8,00 A+++ | 2,21 (0,37 - 3,40) | 1105 | 10,60 | 1,93 | 2,43 | 3,02 | 3,02 | | 10,40 (3,40 - 14,20) | 4,68 | 4,20 A+ | 2,22 (0,34 - 3,81) | 1110 | 10,40 |
| 16+20+25+35 | 1,50 | 1,88 | 2,34 | 3,28 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,73 | 2,17 | 2,71 | 3,79 | | 10,40 (3,40 - 14,20) | 4,73 | 4,40 A+ | 2,20 (0,34 - 3,77) | 1100 | 10,30 |
| 16+20+25+42 | 1,40 | 1,75 | 2,18 | 3,67 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,62 | 2,02 | 2,52 | 4,24 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 16+20+25+50 | 1,30 | 1,62 | 2,03 | 4,05 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,50 | 1,87 | 2,34 | 4,69 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+20+25+60 | 1,19 | 1,49 | 1,86 | 4,46 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 1,38 | 1,72 | 2,15 | 5,15 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+20+25+71 | 1,09 | 1,36 | 1,70 | 4,85 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,26 | 1,58 | 1,97 | 5,59 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,66) | 1070 | 10,10 |
| 16+20+35+35 | 1,36 | 1,70 | 2,97 | 2,97 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,57 | 1,97 | 3,43 | 3,43 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,36 - 3,68) | 1085 | 10,20 |
| 16+20+35+42 | 1,27 | 1,59 | 2,79 | 3,35 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,47 | 1,84 | 3,22 | 3,87 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 16+20+35+50 | 1,19 | 1,49 | 2,60 | 3,72 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,38 | 1,72 | 3,01 | 4,29 | | 10,40 (3,40 - 14,20) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,58) | 1065 | 10,00 |
| 16+20+35+60 | 1,10 | 1,37 | 2,40 | 4,13 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,27 | 1,59 | 2,78 | 4,76 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 16+20+35+71 | 1,01 | 1,27 | 2,22 | 4,50 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,17 | 1,46 | 2,56 | 5,21 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 16+20+42+42 | 1,20 | 1,50 | 3,15 | 3,15 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,39 | 1,73 | 3,64 | 3,64 | | 10,40 (3,40 - 14,20) | 4,81 | 4,40 A+ | 2,16 (0,37 - 3,65) | 1080 | 10,20 |
| 16+20+42+50 | 1,12 | 1,41 | 2,95 | 3,52 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,30 | 1,63 | 3,41 | 4,06 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 16+20+42+60 | 1,04 | 1,30 | 2,74 | 3,92 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,21 | 1,51 | 3,17 | 4,51 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 16+20+42+71 | 0,96 | 1,21 | 2,54 | 4,29 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,12 | 1,40 | 2,93 | 4,95 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 16+20+50+50 | 1,06 | 1,32 | 3,31 | 3,31 | | 9,00 (2,90 - 10,80) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 2,98) | 1105 | 10,60 | 1,22 | 1,54 | 3,82 | 3,82 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+20+50+60 | 0,99 | 1,23 | 3,08 | 3,70 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,14 | 1,42 | 3,56 | 4,28 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+20+50+71 | 0,91 | 1,15 | 2,87 | 4,07 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,05) | 1105 | 10,60 | 1,06 | 1,32 | 3,31 | 4,71 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+20+60+60 | 0,92 | 1,16 | 3,46 | 3,46 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,07 | 1,33 | 4,00 | 4,00 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+20+60+71 | 0,86 | 1,08 | 3,23 | 3,83 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,00 | 1,25 | 3,74 | 4,41 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+20+71+71 | 0,81 | 1,01 | 3,59 | 3,59 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 0,93 | 1,17 | 4,15 | 4,15 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 16+25+25+25 | 1,59 | 2,47 | 2,47 | 2,47 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,40) | 1190 | 11,40 | 1,82 | 2,86 | 2,86 | 2,86 | | 10,40 (3,40 - 14,20) | 4,68 | 4,40 A+ | 2,22 (0,34 - 3,81) | 1110 | 10,40 |
| 16+25+25+35 | 1,42 | 2,23 | 2,23 | 3,12 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,65 | 2,57 | 2,57 | 3,61 | | 10,40 (3,40 - 14,20) | 4,73 | 4,40 A+ | 2,20 (0,34 - 3,77) | 1100 | 10,30 |
| 16+25+25+42 | 1,33 | 2,08 | 2,08 | 3,51 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A+++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,54 | 2,41 | 2,41 | 4,04 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 16+25+25+50 | 1,24 | 1,94 | 1,94 | 3,88 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,43 | 2,24 | 2,24 | 4,49 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+25+25+60 | 1,13 | 1,79 | 1,79 | 4,29 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 1,32 | 2,06 | 2,06 | 4,96 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,62) | 1075 | 10,10 |
| 16+25+25+71 | 1,05 | 1,64 | 1,64 | 4,67 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,21 | 1,90 | 1,90 | 5,39 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,66) | 1070 | 10,10 |
| 16+25+35+35 | 1,29 | 2,03 | 2,84 | 2,84 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,50 | 2,34 | 3,28 | 3,28 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,36 - 3,68) | 1085 | 10,20 |
| 16+25+35+42 | 1,22 | 1,91 | 2,67 | 3,20 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,41 | 2,20 | 3,08 | 3,71 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 16+25+35+50 | 1,14 | 1,79 | 2,50 | 3,57 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,32 | 2,06 | 2,89 | 4,13 | | 10,40 (3,40 - 14,20) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,58) | 1065 | 10,00 |
| 16+25+35+60 | 1,06 | 1,65 | 2,32 | 3,97 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,41 - 3,18) | 1130 | 10,80 | 1,22 | 1,91 | 2,68 | 4,59 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 16+25+35+71 | 0,98 | 1,53 | 2,14 | 4,35 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,13 | 1,77 | 2,48 | 5,02 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 16+25+42+42 | 1,15 | 1,81 | 3,02 | 3,02 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,37 - 3,40) | 1155 | 11,10 | 1,33 | 2,09 | 3,49 | 3,49 | | 10,40 (3,40 - 14,20) | 4,81 | 4,40 A+ | 2,16 (0,37 - 3,65) | 1080 | 10,20 |
| 16+25+42+50 | 1,08 | 1,69 | 2,84 | 3,39 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,25 | 1,95 | 3,28 | 3,92 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 16+25+42+60 | 1,01 | 1,57 | 2,64 | 3,78 | | 9,00 (3,00 - 11,00) | 3,98 | 8,00 A+++ | 2,26 (0,44 - 3,26) | 1130 | 10,80 | 1,16 | 1,82 | 3,05 | 4,37 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 16+25+42+71 | 0,94 | 1,46 | 2,45 | 4,15 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,08 | 1,69 | 2,84 | 4,79 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 16+25+50+50 | 1,02 | 1,60 | 3,19 | 3,19 | | 9,00 (2,90 - 10,80) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 2,98) | 1105 | 10,60 | 1,18 | 1,84 | 3,69 | 3,69 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+25+50+60 | 0,95 | 1,49 | 2,98 | 3,58 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,10 | 1,72 | 3,44 | 4,14 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+25+50+71 | 0,89 | 1,39 | 2,78 | 3,94 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,03 | 1,60 | 3,21 | 4,56 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+25+60+60 | 0,89 | 1,41 | 3,35 | 3,35 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,19) | 1105 | 10,60 | 1,03 | 1,61 | 3,88 | 3,88 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,50 - 3,56) | 1075 | 10,10 |
| 16+25+60+71 | 0,83 | 1,31 | 3,14 | 3,72 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 0,97 | 1,51 | 3,63 | 4,29 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+25+71+71 | 0,79 | 1,23 | 3,49 | 3,49 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 0,91 | 1,43 | 4,03 | 4,03 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 16+35+35+35 | 1,20 | 2,60 | 2,60 | 2,60 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,38 - 3,33) | 1155 | 11,10 | 1,37 | 3,01 | 3,01 | 3,01 | | 10,40 (3,40 - 14,20) | 4,84 | 4,40 A+ | 2,15 (0,37 - 3,64) | 1075 | 10,10 |
| 16+35+35+42 | 1,13 | 2,46 | 2,46 | 2,95 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,30 | 2,84 | 2,84 | 3,42 | | 10,40 (3,40 - 14,40) | 4,75 | 4,40 A+ | 2,19 (0,37 - 3,75) | 1095 | 10,30 |
| 16+35+35+50 | 1,05 | 2,32 | 2,32 | 3,31 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,22 | 2,68 | 2,68 | 3,82 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 16+35+35+60 | 0,98 | 2,16 | 2,16 | 3,70 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,14 | 2,49 | 2,49 | 4,28 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 16+35+35+71 | 0,91 | 2,01 | 2,01 | 4,07 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,19) | 1100 | 10,50 | 1,06 | 2,32 | 2,32 | 4,70 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+35+42+42 | 1,07 | 2,33 | 2,80 | 2,80 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,22 | 2,70 | 3,24 | 3,24 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,37 - 3,73) | 1090 | 10,20 |
| 16+35+42+50 | 1,01 | 2,20 | 2,64 | 3,15 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,16 | 2,55 | 3,05 | 3,64 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+35+42+60 | 0,94 | 2,06 | 2,47 | 3,53 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,09 | 2,38 | 2,85 | 4,08 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+35+42+71 | 0,88 | 1,92 | 2,30 | 3,90 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 1,01 | 2,22 | 2,66 | 4,51 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 16+35+50+50 | 0,95 | 2,09 | 2,98 | 2,98 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,05) | 1105 | 10,60 | 1,10 | 2,42 | 3,44 | 3,44 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 16+35+50+60 | 0,89 | 1,96 | 2,80 | 3,35 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,03 | 2,26 | 3,23 | 3,88 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 16+35+50+71 | 0,83 | 1,83 | 2,62 | 3,72 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 0,97 | 2,12 | 3,02 | 4,29 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,54 - 3,57) | 1090 | 10,20 |
| 16+35+60+60 | 0,84 | 1,84 | 3,16 | 3,16 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 0,97 | 2,13 | 3,65 | 3,65 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 16+35+60+71 | 0,79 | 1,73 | 2,97 | 3,51 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 0,91 | 2,00 | 3,43 | 4,06 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,54 - 3,57) | 1090 | 10,20 |
| 16+42+42+42 | 1,02 | 2,66 | 2,66 | 2,66 | | 9,00 (3,00 - 11,00) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,48) | 1155 | 11,10 | 1,16 | 3,08 | 3,08 | 3,08 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,72) | 1085 | 10,20 |
| 16+42+42+50 | 0,96 | 2,52 | 2,52 | 3,00 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,19) | 1100 | 10,50

# Free Multi R32 combinations table

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+42+50+60 | 0,86 | 2,25 | 2,68 | 3,21 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 0,99 | 2,60 | 3,10 | 3,71 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 16+42+50+71 | 0,80 | 2,11 | 2,51 | 3,58 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 0,93 | 2,44 | 2,91 | 4,12 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,56) | 1085 | 10,20 |
| 16+42+60+60 | 0,81 | 2,13 | 3,03 | 3,03 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 0,93 | 2,45 | 3,51 | 3,51 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 16+50+50+50 | 0,87 | 2,71 | 2,71 | 2,71 | | 9,00 (3,00 - 11,20) | 4,15 | 8,00 A++ | 2,17 (0,57 - 3,14) | 1085 | 10,40 | 1,01 | 3,13 | 3,13 | 3,13 | | 10,40 (3,40 - 14,40) | 4,66 | 4,40 A+ | 2,23 (0,63 - 3,58) | 1115 | 10,50 |
| 16+50+50+60 | 0,81 | 2,56 | 2,56 | 3,07 | | 9,00 (3,00 - 11,20) | 4,15 | 8,00 A++ | 2,17 (0,57 - 3,14) | 1085 | 10,40 | 0,95 | 2,95 | 2,95 | 3,55 | | 10,40 (3,40 - 14,40) | 4,66 | 4,40 A+ | 2,23 (0,63 - 3,58) | 1115 | 10,50 |
| 20+20+20+20 | 2,00 | 2,00 | 2,00 | 2,00 | | 8,00 (2,90 - 10,60) | 4,06 | 8,00 A++ | 1,97 (0,37 - 3,40) | 985 | 9,40 | 2,60 | 2,60 | 2,60 | 2,60 | | 10,40 (3,40 - 14,20) | 4,71 | 4,20 A+ | 2,21 (0,34 - 3,79) | 1105 | 10,40 |
| 20+20+20+25 | 2,00 | 2,00 | 2,00 | 2,50 | | 8,50 (2,90 - 10,60) | 3,95 | 8,00 A++ | 2,15 (0,37 - 3,40) | 1075 | 10,30 | 2,45 | 2,45 | 2,45 | 3,05 | | 10,40 (3,40 - 14,20) | 4,71 | 4,20 A+ | 2,21 (0,34 - 3,79) | 1105 | 10,40 |
| 20+20+20+35 | 1,89 | 1,89 | 1,89 | 3,33 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 2,19 | 2,19 | 2,19 | 3,83 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 20+20+20+42 | 1,76 | 1,76 | 1,76 | 3,72 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 2,04 | 2,04 | 2,04 | 4,28 | | 10,40 (3,40 - 14,20) | 4,77 | 4,40 A+ | 2,18 (0,36 - 3,74) | 1090 | 10,20 |
| 20+20+20+50 | 1,64 | 1,64 | 1,64 | 4,08 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,89 | 1,89 | 1,89 | 4,73 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 20+20+20+60 | 1,50 | 1,50 | 1,50 | 4,50 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,73 | 1,73 | 1,73 | 5,21 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 20+20+20+71 | 1,37 | 1,37 | 1,37 | 4,89 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,59 | 1,59 | 1,59 | 5,63 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 20+20+25+25 | 2,00 | 2,00 | 2,50 | 2,50 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,40) | 1190 | 11,40 | 2,31 | 2,31 | 2,89 | 2,89 | | 10,40 (3,40 - 14,20) | 4,71 | 4,40 A+ | 2,21 (0,34 - 3,79) | 1105 | 10,40 |
| 20+20+25+35 | 1,80 | 1,80 | 2,25 | 3,15 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 2,08 | 2,08 | 2,60 | 3,64 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 20+20+25+42 | 1,68 | 1,68 | 2,10 | 3,54 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,94 | 1,94 | 2,43 | 4,09 | | 10,40 (3,40 - 14,20) | 4,77 | 4,40 A+ | 2,18 (0,36 - 3,74) | 1090 | 10,20 |
| 20+20+25+50 | 1,57 | 1,57 | 1,95 | 3,91 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,81 | 1,81 | 2,26 | 4,52 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 20+20+25+60 | 1,44 | 1,44 | 1,80 | 4,32 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 1,66 | 1,66 | 2,08 | 5,00 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 20+20+25+71 | 1,32 | 1,32 | 1,65 | 4,71 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,53 | 1,53 | 1,91 | 5,43 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 20+20+35+35 | 1,64 | 1,64 | 2,86 | 2,86 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,89 | 1,89 | 3,31 | 3,31 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 20+20+35+42 | 1,54 | 1,54 | 2,69 | 3,23 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,78 | 1,78 | 3,11 | 3,73 | | 10,40 (3,40 - 14,20) | 4,81 | 4,40 A+ | 2,16 (0,37 - 3,65) | 1080 | 10,20 |
| 20+20+35+50 | 1,44 | 1,44 | 2,52 | 3,60 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,66 | 1,66 | 2,91 | 4,17 | | 10,40 (3,40 - 14,20) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,57) | 1060 | 10,00 |
| 20+20+35+60 | 1,33 | 1,33 | 2,33 | 4,01 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,54 | 1,54 | 2,70 | 4,62 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 20+20+35+71 | 1,23 | 1,23 | 2,16 | 4,38 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,42 | 1,42 | 2,49 | 5,07 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 20+20+42+42 | 1,45 | 1,45 | 3,05 | 3,05 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,40) | 1155 | 11,10 | 1,68 | 1,68 | 3,52 | 3,52 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,37 - 3,64) | 1095 | 10,30 |
| 20+20+42+50 | 1,36 | 1,36 | 2,86 | 3,42 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,58 | 1,58 | 3,31 | 3,93 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 20+20+42+60 | 1,27 | 1,27 | 2,66 | 3,80 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,46 | 1,46 | 3,08 | 4,40 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 20+20+42+71 | 1,18 | 1,18 | 2,46 | 4,18 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,45 - 3,19) | 1100 | 10,50 | 1,36 | 1,36 | 2,85 | 4,83 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,44 - 3,66) | 1075 | 10,10 |
| 20+20+50+50 | 1,29 | 1,29 | 3,21 | 3,21 | | 9,00 (2,90 - 10,80) | 4,07 | 8,00 A++ | 2,21 (0,49 - 2,98) | 1105 | 10,60 | 1,49 | 1,49 | 3,71 | 3,71 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+20+50+60 | 1,20 | 1,20 | 3,00 | 3,60 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,39 | 1,39 | 3,47 | 4,15 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+20+50+71 | 1,12 | 1,12 | 2,79 | 3,97 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,29 | 1,29 | 3,23 | 4,59 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+20+60+60 | 1,12 | 1,12 | 3,38 | 3,38 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,49 - 3,19) | 1105 | 10,60 | 1,30 | 1,30 | 3,90 | 3,90 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+20+60+71 | 1,05 | 1,05 | 3,16 | 3,74 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,22 | 1,22 | 3,65 | 4,31 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+20+71+71 | 0,99 | 0,99 | 3,51 | 3,51 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A++ | 2,16 (0,53 - 3,13) | 1080 | 10,30 | 1,14 | 1,14 | 4,06 | 4,06 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 20+25+25+25 | 1,89 | 2,37 | 2,37 | 2,37 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,40) | 1190 | 11,40 | 2,18 | 2,74 | 2,74 | 2,74 | | 10,40 (3,40 - 14,20) | 4,71 | 4,40 A+ | 2,21 (0,34 - 3,79) | 1105 | 10,40 |
| 20+25+25+35 | 1,71 | 2,14 | 2,14 | 3,01 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,98 | 2,48 | 2,48 | 3,46 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 20+25+25+42 | 1,60 | 2,01 | 2,01 | 3,38 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 1,86 | 2,32 | 2,32 | 3,90 | | 10,40 (3,40 - 14,20) | 4,77 | 4,40 A+ | 2,18 (0,36 - 3,74) | 1090 | 10,20 |
| 20+25+25+50 | 1,49 | 1,88 | 1,88 | 3,75 | | 9,00 (2,90 - 10,60) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,04) | 1125 | 10,80 | 1,73 | 2,17 | 2,17 | 4,33 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 20+25+25+60 | 1,38 | 1,73 | 1,73 | 4,16 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 1,60 | 2,00 | 2,00 | 4,80 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,66) | 1070 | 10,10 |
| 20+25+25+71 | 1,27 | 1,60 | 1,60 | 4,53 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,48 | 1,84 | 1,84 | 5,24 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 20+25+35+35 | 1,56 | 1,96 | 2,74 | 2,74 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 1,80 | 2,26 | 3,17 | 3,17 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 20+25+35+42 | 1,48 | 1,84 | 2,58 | 3,10 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,40) | 1155 | 11,10 | 1,70 | 2,13 | 2,98 | 3,59 | | 10,40 (3,40 - 14,20) | 4,81 | 4,40 A+ | 2,16 (0,37 - 3,65) | 1080 | 10,20 |
| 20+25+35+50 | 1,38 | 1,73 | 2,42 | 3,47 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,60 | 2,00 | 2,80 | 4,00 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 20+25+35+60 | 1,28 | 1,61 | 2,25 | 3,86 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,49 | 1,86 | 2,60 | 4,45 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 20+25+35+71 | 1,19 | 1,49 | 2,09 | 4,23 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,38 | 1,72 | 2,41 | 4,89 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,61) | 1080 | 10,20 |
| 20+25+42+42 | 1,40 | 1,74 | 2,93 | 2,93 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,40) | 1155 | 11,10 | 1,60 | 2,02 | 3,39 | 3,39 | | 10,40 (3,40 - 14,40) | 4,75 | 4,40 A+ | 2,19 (0,37 - 3,76) | 1095 | 10,30 |
| 20+25+42+50 | 1,31 | 1,64 | 2,76 | 3,29 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,52 | 1,90 | 3,19 | 3,79 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 20+25+42+60 | 1,22 | 1,53 | 2,57 | 3,68 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,41 | 1,77 | 2,97 | 4,25 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 20+25+42+71 | 1,14 | 1,42 | 2,39 | 4,05 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A++ | 2,20 (0,45 - 3,33) | 1100 | 10,50 | 1,32 | 1,65 | 2,76 | 4,67 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,44 - 3,66) | 1075 | 10,10 |
| 20+25+50+50 | 1,24 | 1,55 | 3,10 | 3,11 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,43 | 1,79 | 3,59 | 3,59 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+25+50+60 | 1,16 | 1,45 | 2,90 | 3,49 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,34 | 1,68 | 3,35 | 4,03 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+25+50+71 | 1,08 | 1,36 | 2,71 | 3,85 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,25 | 1,57 | 3,13 | 4,45 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+25+60+60 | 1,09 | 1,37 | 3,27 | 3,27 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,49 - 3,19) | 1105 | 10,60 | 1,26 | 1,58 | 3,78 | 3,78 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+25+60+71 | 1,02 | 1,28 | 3,07 | 3,63 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,18 | 1,48 | 3,55 | 4,19 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+35+35+35 | 1,44 | 2,52 | 2,52 | 2,52 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,67 | 2,91 | 2,91 | 2,91 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,37 - 3,63) | 1095 | 10,30 |
| 20+35+35+42 | 1,36 | 2,39 | 2,39 | 2,86 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,58 | 2,76 | 2,76 | 3,30 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,37 - 3,73) | 1090 | 10,20 |
| 20+35+35+50 | 1,29 | 2,25 | 2,25 | 3,21 | | 9,00 (2,90 - 10,80) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,11) | 1100 | 10,50 | 1,49 | 2,60 | 2,60 | 3,71 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 20+35+35+60 | 1,20 | 2,10 | 2,10 | 3,60 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,39 | 2,43 | 2,43 | 4,15 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 20+35+35+71 | 1,11 | 1,96 | 1,96 | 3,97 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 1,29 | 2,26 | 2,26 | 4,59 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 20+35+42+42 | 1,29 | 2,27 | 2,72 | 2,72 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,50 | 2,62 | 3,14 | 3,14 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,72) | 1085 | 10,20 |
| 20+35+42+50 | 1,22 | 2,14 | 2,57 | 3,07 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,41 | 2,48 | 2,97 | 3,54 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,64) | 1075 | 10,10 |
| 20+35+42+60 | 1,14 | 2,01 | 2,41 | 3,44 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,32 | 2,32 | 2,78 | 3,98 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,64) | 1075 | 10,10 |
| 20+35+42+71 | 1,07 | 1,88 | 2,25 | 3,80 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A++ | 2,20 (0,48 - 3,34) | 1100 | 10,50 | 1,24 | 2,17 | 2,60 | 4,39 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,46 - 3,63) | 1070 | 10,10 |
| 20+35+50+50 | 1,16 | 2,04 | 2,90 | 2,90 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A++ | 2,21 (0,52 - 3,05) | 1105 | 10,60 | 1,34 | 2,36 | 3,35 | 3,35 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 20+35+50+60 | 1,09 | 1,91 | 2,73 | 3,27 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,26 | 2,21 | 3,15 | 3,78 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 20+35+50+71 | 1,02 | 1,79 | 2,56 | 3,63 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 1,18 | 2,07 | 2,95 | 4,20 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,56) | 1085 | 10,20 |
| 20+35+60+60 | 1,02 | 1,80 | 3,09 | 3,09 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,19 | 2,07 | 3,57 | 3,57 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 20+42+42+42 | 1,23 | 2,59 | 2,59 | 2,59 | | 9,00 (3,00 - 11,00) | 3,90 | 8,00 A++ | 2,31 (0,40 - 3,40) | 1155 | 11,10 | 1,43 | 2,99 | 2,99 | 2,99 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,71) | 1085 | 10,20 |
| 20+42+42+50 | 1,17 | 2,45 | 2,45 | 2,93 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,45 - 3,19) | 1100 | 10,50 | 1,35 | 2,84 | 2,84 | 3,37 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,63) | 1070 | 10,10 |
| 20+42+42+60 | 1,10 | 2,30 | 2,30 | 3,30 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A++ | 2,20 (0,45 - 3,33) | 1100 | 10,50 | 1,27 | 2,66 | 2,66 | 3,81 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,63) | 1070 | 10,10 |
| 20+42+42+71 | 1,03 | 2,16 | 2,16 | 3,65 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A++ | 2,20 (0,48 - 3,26) | 1100 | 10,50 | 1,19 | 2,50 | 2,50 | 4,21 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,46 - 3,61) | 1065 | 10,00 |
| 20+42+50+50 | 1,11 | 2,33 | 2,78 | 2,78 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,28 | 2,70 | 3,21 | 3,21 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,57) | 1085 | 10,20 |
| 20+42+50+60 | 1,04 | 2,20 | 2,62 | 3,14 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,21 | 2,54 | 3,02 | 3,63 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,57) | 1085 | 10,20 |
| 20+42+50+71 | 0,98 | 2,07 | 2,46 | 3,49 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A++ | 2,16 (0,53 - 3,13) | 1080 | 10,30 | 1,14 | 2,39 | 2,84 | 4,03 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,55 - 3,55) | 1085 | 10,20 |
| 20+42+60+60 | 0,98 | 2,08 | 2,97 | 2,97 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,14 | 2,40 | 3,43 | 3,43 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,57) | 1085 | 10,20 |
| 20+50+50+50 | 1,05 | 2,65 | 2,65 | 2,65 | | 9,00 (3,00 - 11,20) | 4,15 | 8,00 A++ | 2,17 (0,58 - 3,14) | 1085 | 10,40 | 1,22 | 3,06 | 3,06 | 3,06 | | 10,40 (3,40 - 14,40) | 4,60 | 4,40 A+ | 2,26 (0,63 - 3,57) | 1130 | 10,60 |
| 20+50+50+60 | 1,00 | 2,50 | 2,50 | 3,00 | | 9,00 (3,00 - 11,20) | 4,15 | 8,00 A++ | 2,17 (0,58 - 3,14) | 1085 | 10,40 | 1,16 | 2,89 | 2,89 | 3,46 | | 10,40 (3,40 - 14,40) | 4,60 | 4,40 A+ | 2,26 (0,63 - 3,57) | 1130 | 10,60 |
| 25+25+25+25 | 2,25 | 2,25 | 2,25 | 2,25 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,40) | 1190 | 11,40 | 2,60 | 2,60 | 2,60 | 2,60 | | 10,40 (3,40 - 14,20) | 4,71 | 4,40 A+ | 2,21 (0,34 - 3,79) | 1105 | 10,40 |
| 25+25+25+35 | 2,05 | 2,05 | 2,05 | 2,85 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 2,36 | 2,36 | 2,36 | 3,32 | | 10,40 (3,40 - 14,20) | 4,75 | 4,40 A+ | 2,19 (0,35 - 3,76) | 1095 | 10,30 |
| 25+25+25+42 | 1,92 | 1,92 | 1,92 | 3,24 | | 9,00 (2,90 - 10,60) | 3,78 | 8,00 A++ | 2,38 (0,37 - 3,33) | 1190 | 11,40 | 2,22 | 2,22 | 2,22 | 3,74 | | 10,40 (3,40 - 14,20) | 4,77 | 4,40 A+ | 2,18 (0,36 - 3,74) | 1090 | 10,20 |
| 25+25+25+50 | 1,80 | 1,80 | 1,80 | 3,60 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 2,08 | 2,08 | 2,08 | 4,16 | | 10,40 (3,40 - 14,20) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 25+25+25+60 | 1,67 | 1,67 | 1,67 | 3,99 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A++ | 2,25 (0,41 - 3,18) | 1125 | 10,80 | 1,93 | 1,93 | 1,93 | 4,61 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,42 - 3,60) | 1070 | 10,10 |
| 25+25+25+71 | 1,54 | 1,54 | 1,54 | 4,38 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,78 | 1,78 | 1,78 | 5,06 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,42 - 3,64) | 1065 | 10,00 |
| 25+25+35+35 | 1,87 | 1,87 | 2,63 | 2,63 | | 9,00 (2,90 - 10,60) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,25) | 1155 | 11,10 | 2,17 | 2,17 | 3,03 | 3,03 | | 10,40 (3,40 - 14,20) | 4,79 | 4,40 A+ | 2,17 (0,37 - 3,66) | 1085 | 10,20 |
| 25+25+35+42 | 1,77 | 1,77 | 2,48 | 2,98 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A++ | 2,31 (0,37 - 3,40) | 1155 | 11,10 | 2,05 | 2,05 | 2,87 | 3,43 | | 10,40 (3,40 - 14,20) | 4,81 | 4,40 A+ | 2,16 (0,37 - 3,65) | 1080 | 10,20 |
| 25+25+35+50 | 1,67 | 1,67 | 2,33 | 3,33 | | 9,00 (2,90 - 10,80) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,11) | 1130 | 10,80 | 1,93 | 1,93 | 2,70 | 3,84 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 1060 | 10,00 |
| 25+25+35+60 | 1,55 | 1,55 | 2,17 | 3,73 | | 9,00 (3,00 - 11,00) | 3,98 | 8,00 A++ | 2,26 (0,44 - 3,26) | 1130 | 10,80 | 1,79 | 1,79 | 2,51 | 4,31 | | 10,40 (3,40 - 14,40) | 4,91 | 4,40 A+ | 2,12 (0,42 - 3,63) | 

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 25+25+42+60 | 1,48 | 1,48 | 2,49 | 3,55 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,71 | 1,71 | 2,87 | 4,11 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,62) | 1080 | 10,20 |
| 25+25+42+71 | 1,38 | 1,38 | 2,32 | 3,92 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,45 - 3,33) | 1100 | 10,50 | 1,60 | 1,60 | 2,68 | 4,52 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,44 - 3,66) | 1075 | 10,10 |
| 25+25+50+50 | 1,50 | 1,50 | 3,00 | 3,00 | | 9,00 (3,00 - 11,00) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,12) | 1105 | 10,60 | 1,73 | 1,73 | 3,47 | 3,47 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 25+25+50+60 | 1,41 | 1,41 | 2,80 | 3,38 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,19) | 1105 | 10,60 | 1,63 | 1,63 | 3,25 | 3,89 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 25+25+50+71 | 1,32 | 1,32 | 2,62 | 3,74 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,52 | 1,52 | 3,04 | 4,32 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 25+25+60+60 | 1,32 | 1,32 | 3,18 | 3,18 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,49 - 3,19) | 1105 | 10,60 | 1,53 | 1,53 | 3,67 | 3,67 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 25+25+60+71 | 1,24 | 1,24 | 2,98 | 3,54 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,44 | 1,44 | 3,45 | 4,07 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 25+35+35+35 | 1,74 | 2,42 | 2,42 | 2,42 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 2,00 | 2,80 | 2,80 | 2,80 | | 10,40 (3,40 - 14,40) | 4,75 | 4,40 A+ | 2,19 (0,37 - 3,75) | 1095 | 10,30 |
| 25+35+35+42 | 1,64 | 2,30 | 2,30 | 2,76 | | 9,00 (2,90 - 10,80) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,33) | 1155 | 11,10 | 1,90 | 2,66 | 2,66 | 3,18 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,37 - 3,73) | 1090 | 10,20 |
| 25+35+35+50 | 1,55 | 2,17 | 2,17 | 3,11 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,79 | 2,51 | 2,51 | 3,59 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 25+35+35+60 | 1,45 | 2,03 | 2,03 | 3,49 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,26) | 1100 | 10,50 | 1,68 | 2,35 | 2,35 | 4,02 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 25+35+35+71 | 1,35 | 1,90 | 1,90 | 3,85 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 1,57 | 2,19 | 2,19 | 4,45 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 25+35+42+42 | 1,55 | 2,19 | 2,63 | 2,63 | | 9,00 (3,00 - 11,00) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,48) | 1155 | 11,10 | 1,81 | 2,53 | 3,03 | 3,03 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,72) | 1085 | 10,20 |
| 25+35+42+50 | 1,48 | 2,07 | 2,49 | 2,96 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,19) | 1100 | 10,50 | 1,71 | 2,39 | 2,87 | 3,43 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,64) | 1075 | 10,10 |
| 25+35+42+60 | 1,39 | 1,95 | 2,33 | 3,33 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,44 - 3,33) | 1100 | 10,50 | 1,60 | 2,25 | 2,70 | 3,85 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,45 - 3,64) | 1075 | 10,10 |
| 25+35+42+71 | 1,30 | 1,82 | 2,18 | 3,70 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,34) | 1100 | 10,50 | 1,50 | 2,10 | 2,52 | 4,28 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,46 - 3,63) | 1070 | 10,10 |
| 25+35+50+50 | 1,41 | 1,97 | 2,81 | 2,81 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,62 | 2,28 | 3,25 | 3,25 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 25+35+50+60 | 1,32 | 1,85 | 2,65 | 3,18 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,53 | 2,14 | 3,06 | 3,67 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 25+35+50+71 | 1,24 | 1,74 | 2,49 | 3,53 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 1,44 | 2,01 | 2,87 | 4,08 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,56) | 1085 | 10,20 |
| 25+35+60+60 | 1,25 | 1,75 | 3,00 | 3,00 | | 9,00 (3,00 - 11,20) | 4,07 | 8,00 A+++ | 2,21 (0,52 - 3,20) | 1105 | 10,60 | 1,44 | 2,02 | 3,47 | 3,47 | | 10,40 (3,40 - 14,40) | 4,77 | 4,40 A+ | 2,18 (0,53 - 3,58) | 1090 | 10,20 |
| 25+42+42+42 | 1,50 | 2,50 | 2,50 | 2,50 | | 9,00 (3,00 - 11,00) | 3,90 | 8,00 A+++ | 2,31 (0,40 - 3,40) | 1155 | 11,10 | 1,73 | 2,89 | 2,89 | 2,89 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,71) | 1085 | 10,20 |
| 25+42+42+50 | 1,41 | 2,38 | 2,38 | 2,83 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,45 - 3,33) | 1100 | 10,50 | 1,64 | 2,75 | 2,75 | 3,26 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,63) | 1070 | 10,10 |
| 25+42+42+60 | 1,32 | 2,24 | 2,24 | 3,20 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,45 - 3,33) | 1100 | 10,50 | 1,54 | 2,58 | 2,58 | 3,70 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,45 - 3,63) | 1070 | 10,10 |
| 25+42+42+71 | 1,25 | 2,10 | 2,10 | 3,55 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,26) | 1100 | 10,50 | 1,44 | 2,43 | 2,43 | 4,10 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,46 - 3,61) | 1065 | 10,00 |
| 25+42+50+50 | 1,35 | 2,27 | 2,69 | 2,69 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,56 | 2,62 | 3,11 | 3,11 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,57) | 1085 | 10,20 |
| 25+42+50+60 | 1,27 | 2,14 | 2,54 | 3,05 | | 9,00 (3,00 - 11,20) | 4,19 | 8,00 A+++ | 2,15 (0,52 - 3,20) | 1075 | 10,30 | 1,47 | 2,47 | 2,94 | 3,52 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,54 - 3,57) | 1085 | 10,20 |
| 25+50+50+50 | 1,29 | 2,57 | 2,57 | 2,57 | | 9,00 (3,00 - 11,20) | 4,15 | 8,00 A+++ | 2,17 (0,58 - 3,14) | 1085 | 10,40 | 1,49 | 2,97 | 2,97 | 2,97 | | 10,40 (3,40 - 14,40) | 4,60 | 4,40 A+ | 2,26 (0,63 - 3,57) | 1130 | 10,60 |
| 35+35+35+35 | 2,25 | 2,25 | 2,25 | 2,25 | | 9,00 (2,90 - 10,80) | 4,00 | 8,00 A+++ | 2,25 (0,40 - 3,25) | 1125 | 10,80 | 2,60 | 2,60 | 2,60 | 2,60 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,39 - 3,71) | 1085 | 10,20 |
| 35+35+35+42 | 2,14 | 2,14 | 2,14 | 2,58 | | 9,00 (3,00 - 11,00) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,40) | 1125 | 10,80 | 2,48 | 2,48 | 2,48 | 2,96 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,39 - 3,70) | 1080 | 10,20 |
| 35+35+35+50 | 2,03 | 2,03 | 2,03 | 2,91 | | 9,00 (3,00 - 11,00) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,19) | 1100 | 10,50 | 2,35 | 2,35 | 2,35 | 3,35 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,46 - 3,62) | 1070 | 10,10 |
| 35+35+35+60 | 1,91 | 1,91 | 1,91 | 3,27 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 2,21 | 2,21 | 2,21 | 3,77 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,46 - 3,62) | 1070 | 10,10 |
| 35+35+35+71 | 1,79 | 1,79 | 1,79 | 3,63 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,26) | 1100 | 10,50 | 2,07 | 2,07 | 2,07 | 4,19 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,47 - 3,61) | 1065 | 10,00 |
| 35+35+42+42 | 2,05 | 2,05 | 2,45 | 2,45 | | 9,00 (3,00 - 11,00) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,40) | 1125 | 10,80 | 2,36 | 2,36 | 2,84 | 2,84 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,40 - 3,69) | 1080 | 10,20 |
| 35+35+42+50 | 1,94 | 1,94 | 2,33 | 2,79 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 2,25 | 2,25 | 2,70 | 3,20 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,47 - 3,61) | 1065 | 10,00 |
| 35+35+42+60 | 1,83 | 1,83 | 2,20 | 3,14 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,47 - 3,33) | 1100 | 10,50 | 2,12 | 2,12 | 2,54 | 3,62 | | 10,40 (3,40 - 14,40) | 4,88 | 4,40 A+ | 2,13 (0,47 - 3,61) | 1065 | 10,00 |
| 35+35+42+71 | 1,72 | 1,72 | 2,07 | 3,49 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,26) | 1100 | 10,50 | 1,99 | 1,99 | 2,39 | 4,03 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,48 - 3,60) | 1085 | 10,20 |
| 35+35+50+50 | 1,85 | 1,85 | 2,65 | 2,65 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,52 - 3,20) | 1080 | 10,30 | 2,14 | 2,14 | 3,06 | 3,06 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,55 - 3,55) | 1085 | 10,20 |
| 35+35+50+60 | 1,75 | 1,75 | 2,50 | 3,00 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,52 - 3,20) | 1080 | 10,30 | 2,02 | 2,02 | 2,89 | 3,47 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,55 - 3,55) | 1085 | 10,20 |
| 35+42+42+42 | 1,95 | 2,35 | 2,35 | 2,35 | | 9,00 (3,00 - 11,20) | 4,00 | 8,00 A+++ | 2,25 (0,41 - 3,56) | 1125 | 10,80 | 2,27 | 2,71 | 2,71 | 2,71 | | 10,40 (3,40 - 14,40) | 4,84 | 4,40 A+ | 2,15 (0,40 - 3,67) | 1075 | 10,10 |
| 35+42+42+50 | 1,86 | 2,24 | 2,24 | 2,66 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,34) | 1100 | 10,50 | 2,15 | 2,58 | 2,58 | 3,09 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,48 - 3,60) | 1085 | 10,20 |
| 35+42+42+60 | 1,76 | 2,11 | 2,11 | 3,02 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,34) | 1100 | 10,50 | 2,03 | 2,44 | 2,44 | 3,49 | | 10,40 (3,40 - 14,40) | 4,79 | 4,40 A+ | 2,17 (0,48 - 3,60) | 1085 | 10,20 |
| 35+42+50+50 | 1,78 | 2,14 | 2,54 | 2,54 | | 9,00 (3,00 - 11,20) | 4,17 | 8,00 A+++ | 2,16 (0,53 - 3,20) | 1080 | 10,30 | 2,05 | 2,47 | 2,94 | 2,94 | | 10,40 (3,40 - 14,40) | 4,73 | 4,40 A+ | 2,20 (0,56 - 3,54) | 1100 | 10,30 |
| 42+42+42+42 | 2,25 | 2,25 | 2,25 | 2,25 | | 9,00 (3,00 - 11,20) | 4,00 | 8,00 A+++ | 2,25 (0,43 - 3,48) | 1125 | 10,80 | 2,60 | 2,60 | 2,60 | 2,60 | | 10,40 (3,40 - 14,40) | 4,86 | 4,40 A+ | 2,14 (0,40 - 3,66) | 1070 | 10,10 |
| 42+42+42+50 | 2,15 | 2,15 | 2,15 | 2,55 | | 9,00 (3,00 - 11,20) | 4,09 | 8,00 A+++ | 2,20 (0,48 - 3,26) | 1100 | 10,50 | 2,48 | 2,48 | 2,48 | 2,96 | | 10,40 (3,40 - 14,40) | 4,81 | 4,40 A+ | 2,16 (0,48 - 3,59) | 1080 | 10,20 |
| **5 Rooms** | | | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | 8,00 (2,90 - 11,50) | 4,28 | 8,50 A+++ | 1,87 (0,45 - 3,56) | 935 | 9,00 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 10,40 (3,40 - 14,50) | 4,81 | 4,40 A+ | 2,16 (0,43 - 3,67) | 1080 | 10,20 |
| 16+16+16+16+20 | 1,60 | 1,60 | 1,60 | 1,60 | 2,00 | 8,40 (2,90 - 11,50) | 4,24 | 8,50 A+++ | 1,98 (0,45 - 3,56) | 990 | 9,50 | 1,98 | 1,98 | 1,98 | 1,98 | 2,48 | 10,40 (3,40 - 14,50) | 4,84 | 4,50 A+ | 2,15 (0,44 - 3,66) | 1075 | 10,10 |
| 16+16+16+16+25 | 1,62 | 1,62 | 1,62 | 1,62 | 2,52 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,56) | 1100 | 10,50 | 1,87 | 1,87 | 1,87 | 1,87 | 2,92 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,44 - 3,66) | 1075 | 10,10 |
| 16+16+16+16+35 | 1,45 | 1,45 | 1,45 | 1,45 | 3,20 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,68 | 1,68 | 1,68 | 1,68 | 3,68 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,45 - 3,63) | 1070 | 10,10 |
| 16+16+16+16+42 | 1,36 | 1,36 | 1,36 | 1,36 | 3,56 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,57 | 1,57 | 1,57 | 1,57 | 4,12 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,46 - 3,67) | 1070 | 10,10 |
| 16+16+16+16+50 | 1,26 | 1,26 | 1,26 | 1,26 | 3,96 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,46 | 1,46 | 1,46 | 1,46 | 4,56 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 16+16+16+16+60 | 1,16 | 1,16 | 1,16 | 1,16 | 4,36 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,34 | 1,34 | 1,34 | 1,34 | 5,04 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 16+16+16+16+71 | 1,07 | 1,07 | 1,07 | 1,07 | 4,72 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,23 | 1,23 | 1,23 | 1,23 | 5,48 | 10,40 (3,40 - 14,50) | 4,71 | 4,68 A++ | 2,21 (0,56 - 3,60) | 1105 | 10,40 |
| 16+16+16+20+20 | 1,60 | 1,60 | 1,60 | 2,00 | 2,00 | 8,80 (2,90 - 11,50) | 4,11 | 8,50 A+++ | 2,14 (0,45 - 3,48) | 1070 | 10,20 | 1,89 | 1,89 | 1,89 | 2,36 | 2,36 | 10,39 (3,40 - 14,50) | 4,83 | 4,60 A++ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+16+16+20+25 | 1,55 | 1,55 | 1,55 | 1,94 | 2,41 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,48) | 1100 | 10,50 | 1,79 | 1,79 | 1,79 | 2,24 | 2,79 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+16+16+20+35 | 1,40 | 1,40 | 1,40 | 1,75 | 3,05 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,62 | 1,62 | 1,62 | 2,02 | 3,52 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,46 - 3,67) | 1070 | 10,10 |
| 16+16+16+20+42 | 1,31 | 1,31 | 1,31 | 1,64 | 3,43 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,51 | 1,51 | 1,51 | 1,89 | 3,98 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,47 - 3,66) | 1065 | 10,00 |
| 16+16+16+20+50 | 1,22 | 1,22 | 1,22 | 1,53 | 3,81 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,41 | 1,41 | 1,41 | 1,76 | 4,41 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,56 - 3,60) | 1085 | 10,20 |
| 16+16+16+20+60 | 1,13 | 1,13 | 1,13 | 1,41 | 4,20 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,30 | 1,30 | 1,30 | 1,63 | 4,87 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,56 - 3,60) | 1085 | 10,20 |
| 16+16+16+20+71 | 1,04 | 1,04 | 1,04 | 1,29 | 4,59 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,20 | 1,20 | 1,20 | 1,50 | 5,30 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,59) | 1100 | 10,30 |
| 16+16+16+25+25 | 1,47 | 1,47 | 1,47 | 2,29 | 2,29 | 8,99 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,48) | 1100 | 10,50 | 1,70 | 1,70 | 1,70 | 2,65 | 2,65 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,45 - 3,65) | 1075 | 10,10 |
| 16+16+16+25+35 | 1,33 | 1,33 | 1,33 | 2,08 | 2,93 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,54 | 1,54 | 1,54 | 2,41 | 3,37 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,46 - 3,67) | 1070 | 10,10 |
| 16+16+16+25+42 | 1,25 | 1,25 | 1,25 | 1,96 | 3,29 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,45 | 1,45 | 1,45 | 2,26 | 3,79 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,47 - 3,66) | 1065 | 10,00 |
| 16+16+16+25+50 | 1,17 | 1,17 | 1,17 | 1,83 | 3,66 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,35 | 1,35 | 1,35 | 2,11 | 4,24 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,56 - 3,60) | 1085 | 10,20 |
| 16+16+16+25+60 | 1,08 | 1,08 | 1,08 | 1,69 | 4,07 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,25 | 1,25 | 1,25 | 1,95 | 4,70 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,56 - 3,60) | 1085 | 10,20 |
| 16+16+16+25+71 | 1,00 | 1,00 | 1,00 | 1,56 | 4,44 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,16 | 1,16 | 1,16 | 1,81 | 5,11 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,59) | 1100 | 10,30 |
| 16+16+16+35+35 | 1,22 | 1,22 | 1,22 | 2,67 | 2,67 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,41 | 1,41 | 1,41 | 3,08 | 3,08 | 10,39 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 16+16+16+35+42 | 1,15 | 1,15 | 1,15 | 2,52 | 3,03 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,33 | 1,33 | 1,33 | 2,91 | 3,50 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 16+16+16+35+50 | 1,08 | 1,08 | 1,08 | 2,37 | 3,39 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,25 | 1,25 | 1,25 | 2,74 | 3,91 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,63) | 1100 | 10,30 |
| 16+16+16+35+60 | 1,01 | 1,01 | 1,01 | 2,20 | 3,77 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,16 | 1,16 | 1,16 | 2,55 | 4,37 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,63) | 1100 | 10,30 |
| 16+16+16+35+71 | 0,94 | 0,94 | 0,94 | 2,05 | 4,13 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,08 | 1,08 | 1,08 | 2,36 | 4,80 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+16+42+42 | 1,09 | 1,09 | 1,09 | 2,86 | 2,86 | 8,99 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,26 | 1,26 | 1,26 | 3,31 | 3,31 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,50 - 3,62) | 1075 | 10,10 |
| 16+16+16+42+50 | 1,03 | 1,03 | 1,03 | 2,70 | 3,21 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,19 | 1,19 | 1,19 | 3,12 | 3,71 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+16+42+60 | 0,96 | 0,96 | 0,96 | 2,52 | 3,60 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,11 | 1,11 | 1,11 | 2,91 | 4,16 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+16+42+71 | 0,89 | 0,89 | 0,89 | 2,35 | 3,98 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,03 | 1,03 | 1,03 | 2,71 | 4,60 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,61) | 1115 | 10,50 |
| 16+16+16+50+50 | 0,97 | 0,97 | 0,97 | 3,04 | 3,05 | 9,00 (2,90 - 11,50) | 4,11 | 8,50 A+++ | 2,19 (0,62 - 3,23) | 1095 | 10,50 | 1,12 | 1,12 | 1,12 | 3,52 | 3,52 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A++ | 2,29 (0,69 - 3,63) | 1145 | 10,80 |
| 16+16+16+50+60 | 0,91 | 0,91 | 0,91 | 2,85 | 3,42 | 9,00 (2,90 - 11,50) | 4,11 | 8,50 A+++ | 2,19 (0,62 - 3,23) | 1095 | 10,50 | 1,05 | 1,05 | 1,05 | 3,29 | 3,96 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A++ | 2,29 (0,69 - 3,63) | 1145 | 10,80 |
| 16+16+16+50+71 | 0,85 | 0,85 | 0,85 | 2,66 | 3,79 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,24) | 1130 | 10,80 | 0,98 | 0,98 | 0,98 | 3,08 | 4,38 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A++ | 2,29 (0,71 - 3,62) | 1145 | 10,80 |
| 16+16+16+60+60 | 0,86 | 0,86 | 0,86 | 3,21 | 3,21 | 9,00 (2,90 - 11,50) | 4,11 | 8,50 A+++ | 2,19 (0,62 - 3,23) | 1095 | 10,50 | 0,99 | 0,99 | 0,99 | 3,71 | 3,71 | 10,39 (3,40 - 14,50) | 4,54 | 4,68 A++ | 2,29 (0,69 - 3,63) | 1145 | 10,80 |
| 16+16+16+60+71 | 0,80 | 0,80 | 0,80 | 3,02 | 3,58 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,24) | 1130 | 10,80 | 0,93 | 0,93 | 0,93 | 3,49 | 4,12 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A++ | 2,29 (0,71 - 3,62) | 1145 | 10,80 |
| 16+16+20+20+20 | 1,56 | 1,56 | 1,96 | 1,96 | 1,96 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,81 | 1,81 | 2,26 | 2,26 | 2,26 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 16+16+20+20+25 | 1,48 | 1,48 | 1,86 | 1,86 | 2,32 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,72 | 1,72 | 2,14 | 2,14 | 2,68 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 16+16+20+20+35 | 1,35 | 1,35 | 1,68 | 1,68 | 2,94 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,56 | 1,56 | 1,94 | 1,94 | 3,40 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,47 - 3,66) | 1065 | 10,00 |
| 16+16+20+20+42 | 1,26 | 1,26 | 1,58 | 1,58 | 3,32 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,46 | 1,46 | 1,82 | 1,82 | 3,84 | 10,40 (3,40 - 14,50) | 4,79

# Free Multi R32 combinations table

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+16+20+25+42 | 1,21 | 1,21 | 1,51 | 1,89 | 3,18 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,40 | 1,40 | 1,75 | 2,18 | 3,67 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,48 - 3,65) | 1085 | 10,20 |
| 16+16+20+25+50 | 1,13 | 1,13 | 1,42 | 1,77 | 3,55 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,28) | 1080 | 10,30 | 1,31 | 1,31 | 1,64 | 2,05 | 4,09 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 16+16+20+25+60 | 1,05 | 1,05 | 1,31 | 1,64 | 3,95 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,28) | 1080 | 10,30 | 1,21 | 1,21 | 1,52 | 1,90 | 4,56 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 16+16+20+25+71 | 0,97 | 0,97 | 1,22 | 1,52 | 4,32 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,12 | 1,12 | 1,41 | 1,76 | 4,99 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+16+20+35+35 | 1,18 | 1,18 | 1,48 | 2,58 | 2,58 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,36 | 1,36 | 1,72 | 2,98 | 2,98 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 16+16+20+35+42 | 1,12 | 1,12 | 1,40 | 2,44 | 2,92 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,29 | 1,29 | 1,61 | 2,82 | 3,39 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,50 - 3,62) | 1075 | 10,10 |
| 16+16+20+35+50 | 1,05 | 1,05 | 1,31 | 2,30 | 3,29 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,21 | 1,21 | 1,52 | 2,66 | 3,80 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+20+35+60 | 0,98 | 0,98 | 1,22 | 2,14 | 3,68 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,13 | 1,13 | 1,41 | 2,48 | 4,25 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+20+35+71 | 0,91 | 0,91 | 1,14 | 1,99 | 4,05 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,05 | 1,05 | 1,32 | 2,30 | 4,68 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,61) | 1115 | 10,50 |
| 16+16+20+42+42 | 1,06 | 1,06 | 1,32 | 2,78 | 2,78 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,22 | 1,22 | 1,54 | 3,21 | 3,21 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 16+16+20+42+50 | 1,00 | 1,00 | 1,25 | 2,63 | 3,12 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,16 | 1,16 | 1,44 | 3,03 | 3,61 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+16+20+42+60 | 0,94 | 0,94 | 1,17 | 2,45 | 3,50 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,08 | 1,08 | 1,35 | 2,84 | 4,05 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+16+20+42+71 | 0,87 | 0,87 | 1,09 | 2,29 | 3,88 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,58 - 3,29) | 1085 | 10,40 | 1,01 | 1,01 | 1,26 | 2,65 | 4,47 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+16+20+50+50 | 0,95 | 0,95 | 1,18 | 2,96 | 2,96 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,09 | 1,09 | 1,38 | 3,42 | 3,42 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+20+50+60 | 0,89 | 0,89 | 1,11 | 2,78 | 3,33 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,03 | 1,03 | 1,28 | 3,21 | 3,85 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+20+50+71 | 0,83 | 0,83 | 1,04 | 2,60 | 3,70 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,96 | 0,96 | 1,20 | 3,01 | 4,27 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,66) | 1165 | 10,90 |
| 16+16+20+60+60 | 0,84 | 0,84 | 1,04 | 3,14 | 3,14 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,97 | 0,97 | 1,20 | 3,63 | 3,63 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+20+60+71 | 0,79 | 0,79 | 0,98 | 2,95 | 3,49 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,91 | 0,91 | 1,14 | 3,41 | 4,03 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,66) | 1165 | 10,90 |
| 16+16+25+25+25 | 1,35 | 1,35 | 2,10 | 2,10 | 2,10 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,55 | 1,55 | 2,43 | 2,43 | 2,43 | 10,39 (3,40 - 14,50) | 4,86 | 4,68 A+++ | 2,14 (0,45 - 3,64) | 1070 | 10,10 |
| 16+16+25+25+35 | 1,23 | 1,23 | 1,92 | 1,92 | 2,70 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,42 | 1,42 | 2,22 | 2,22 | 3,12 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A+++ | 2,13 (0,47 - 3,66) | 1065 | 10,00 |
| 16+16+25+25+42 | 1,16 | 1,16 | 1,81 | 1,81 | 3,06 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,34 | 1,34 | 2,10 | 2,10 | 3,52 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,48 - 3,65) | 1085 | 10,20 |
| 16+16+25+25+50 | 1,09 | 1,09 | 1,70 | 1,70 | 3,42 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,28) | 1080 | 10,30 | 1,26 | 1,26 | 1,97 | 1,97 | 3,94 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 16+16+25+25+60 | 1,01 | 1,01 | 1,58 | 1,58 | 3,82 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,28) | 1080 | 10,30 | 1,17 | 1,17 | 1,83 | 1,83 | 4,40 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 16+16+25+25+71 | 0,94 | 0,94 | 1,47 | 1,47 | 4,18 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,09 | 1,09 | 1,70 | 1,70 | 4,82 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+16+25+35+35 | 1,13 | 1,13 | 1,78 | 2,48 | 2,48 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,31 | 1,31 | 2,04 | 2,87 | 2,87 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 16+16+25+35+42 | 1,07 | 1,07 | 1,68 | 2,35 | 2,83 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,24 | 1,24 | 1,94 | 2,72 | 3,26 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,50 - 3,62) | 1075 | 10,10 |
| 16+16+25+35+50 | 1,01 | 1,01 | 1,58 | 2,22 | 3,18 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,17 | 1,17 | 1,83 | 2,56 | 3,67 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+25+35+60 | 0,95 | 0,95 | 1,48 | 2,07 | 3,55 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,09 | 1,09 | 1,71 | 2,39 | 4,12 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,59 - 3,62) | 1100 | 10,30 |
| 16+16+25+35+71 | 0,88 | 0,88 | 1,38 | 1,93 | 3,93 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,02 | 1,02 | 1,60 | 2,23 | 4,53 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,61) | 1115 | 10,50 |
| 16+16+25+42+42 | 1,02 | 1,02 | 1,60 | 2,68 | 2,68 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,18 | 1,18 | 1,84 | 3,10 | 3,10 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 16+16+25+42+50 | 0,97 | 0,97 | 1,51 | 2,54 | 3,01 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,12 | 1,12 | 1,74 | 2,93 | 3,49 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+16+25+42+60 | 0,91 | 0,91 | 1,42 | 2,38 | 3,38 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,05 | 1,05 | 1,64 | 2,75 | 3,91 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+16+25+42+71 | 0,85 | 0,85 | 1,32 | 2,22 | 3,76 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,58 - 3,29) | 1085 | 10,40 | 0,98 | 0,98 | 1,53 | 2,57 | 4,34 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+16+25+50+50 | 0,92 | 0,92 | 1,42 | 2,87 | 2,87 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,06 | 1,06 | 1,66 | 3,31 | 3,31 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+25+50+60 | 0,86 | 0,86 | 1,35 | 2,69 | 3,24 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,00 | 1,00 | 1,56 | 3,11 | 3,73 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+25+50+71 | 0,81 | 0,81 | 1,26 | 2,53 | 3,59 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,93 | 0,93 | 1,46 | 2,92 | 4,16 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,66) | 1165 | 10,90 |
| 16+16+25+60+60 | 0,81 | 0,81 | 1,28 | 3,05 | 3,05 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,94 | 0,94 | 1,46 | 3,53 | 3,53 | 10,40 (3,40 - 14,50) | 4,54 | 4,68 A+++ | 2,29 (0,70 - 3,62) | 1145 | 10,80 |
| 16+16+35+35+35 | 1,05 | 1,05 | 2,30 | 2,30 | 2,30 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,21 | 1,21 | 2,66 | 2,66 | 2,66 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+16+35+35+42 | 1,00 | 1,00 | 2,19 | 2,19 | 2,62 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,16 | 1,16 | 2,53 | 2,53 | 3,02 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,51 - 3,59) | 1090 | 10,20 |
| 16+16+35+35+50 | 0,95 | 0,95 | 2,07 | 2,07 | 2,96 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,09 | 1,09 | 2,39 | 2,39 | 3,44 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 16+16+35+35+60 | 0,89 | 0,89 | 1,94 | 1,94 | 3,34 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,03 | 1,03 | 2,25 | 2,25 | 3,84 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 16+16+35+35+71 | 0,83 | 0,83 | 1,82 | 1,82 | 3,70 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,96 | 0,96 | 2,10 | 2,10 | 4,28 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,58) | 1115 | 10,50 |
| 16+16+35+42+42 | 0,95 | 0,95 | 2,10 | 2,50 | 2,50 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,34) | 1105 | 10,60 | 1,10 | 1,10 | 2,42 | 2,89 | 2,89 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 16+16+35+42+50 | 0,91 | 0,91 | 1,98 | 2,38 | 2,82 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,05 | 1,05 | 2,29 | 2,75 | 3,26 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+16+35+42+60 | 0,85 | 0,85 | 1,86 | 2,24 | 3,20 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 0,98 | 0,98 | 2,15 | 2,58 | 3,71 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+16+35+42+71 | 0,80 | 0,80 | 1,75 | 2,10 | 3,55 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,92 | 0,92 | 2,02 | 2,43 | 4,11 | 10,40 (3,40 - 14,50) | 4,68 | 4,68 A+++ | 2,22 (0,63 - 3,63) | 1110 | 10,40 |
| 16+16+35+50+50 | 0,86 | 0,86 | 1,90 | 2,69 | 2,69 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,24) | 1130 | 10,80 | 1,00 | 1,00 | 2,18 | 3,11 | 3,11 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,65) | 1165 | 10,90 |
| 16+16+35+50+60 | 0,81 | 0,81 | 1,78 | 2,54 | 3,06 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,24) | 1130 | 10,80 | 0,94 | 0,94 | 2,06 | 2,94 | 3,52 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,65) | 1165 | 10,90 |
| 16+16+42+42+42 | 0,91 | 0,91 | 2,39 | 2,39 | 2,39 | 8,99 (2,90 - 11,50) | 4,18 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,06 | 1,06 | 2,76 | 2,76 | 2,76 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 16+16+42+42+50 | 0,87 | 0,87 | 2,28 | 2,28 | 2,70 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,00 | 1,00 | 2,63 | 2,63 | 3,14 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+16+42+42+60 | 0,82 | 0,82 | 2,15 | 2,15 | 3,06 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 0,95 | 0,95 | 2,48 | 2,48 | 3,54 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+16+42+50+50 | 0,83 | 0,83 | 2,16 | 2,59 | 2,59 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,96 | 0,96 | 2,50 | 2,99 | 2,99 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,74 - 3,65) | 1165 | 10,90 |
| 16+16+50+50+50 | 0,79 | 0,79 | 2,47 | 2,47 | 2,47 | 8,99 (2,90 - 11,50) | 3,91 | 8,50 A+++ | 2,30 (0,76 - 3,27) | 1150 | 11,00 | 0,91 | 0,91 | 2,86 | 2,86 | 2,86 | 10,40 (3,40 - 14,50) | 4,19 | 4,68 A+++ | 2,48 (0,86 - 3,73) | 1240 | 11,70 |
| 16+20+20+20+20 | 1,48 | 1,88 | 1,88 | 1,88 | 1,88 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,72 | 2,17 | 2,17 | 2,17 | 2,17 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A+++ | 2,14 (0,46 - 3,68) | 1070 | 10,10 |
| 16+20+20+20+25 | 1,43 | 1,78 | 1,78 | 1,78 | 2,23 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,65 | 2,06 | 2,06 | 2,06 | 2,57 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A+++ | 2,14 (0,46 - 3,68) | 1070 | 10,10 |
| 16+20+20+20+35 | 1,30 | 1,62 | 1,62 | 1,62 | 2,84 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,50 | 1,87 | 1,87 | 1,87 | 3,29 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,48 - 3,65) | 1085 | 10,20 |
| 16+20+20+20+42 | 1,22 | 1,53 | 1,53 | 1,53 | 3,19 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,41 | 1,76 | 1,76 | 1,76 | 3,71 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 16+20+20+20+50 | 1,14 | 1,43 | 1,43 | 1,43 | 3,57 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,32 | 1,65 | 1,65 | 1,65 | 4,13 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+20+20+20+60 | 1,06 | 1,32 | 1,32 | 1,32 | 3,98 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,22 | 1,53 | 1,53 | 1,53 | 4,59 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+20+20+20+71 | 0,98 | 1,22 | 1,22 | 1,22 | 4,36 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,13 | 1,41 | 1,41 | 1,41 | 5,04 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,62) | 1100 | 10,30 |
| 16+20+20+25+25 | 1,36 | 1,70 | 1,70 | 2,12 | 2,12 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,58 | 1,96 | 1,96 | 2,45 | 2,45 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A+++ | 2,14 (0,46 - 3,68) | 1070 | 10,10 |
| 16+20+20+25+35 | 1,24 | 1,55 | 1,55 | 1,94 | 2,72 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,43 | 1,79 | 1,79 | 2,24 | 3,15 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,48 - 3,65) | 1085 | 10,20 |
| 16+20+20+25+42 | 1,17 | 1,46 | 1,46 | 1,83 | 3,08 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,35 | 1,69 | 1,69 | 2,11 | 3,56 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 16+20+20+25+50 | 1,10 | 1,37 | 1,37 | 1,72 | 3,44 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,27 | 1,59 | 1,59 | 1,98 | 3,97 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+20+20+25+60 | 1,02 | 1,28 | 1,28 | 1,60 | 3,82 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,18 | 1,48 | 1,48 | 1,84 | 4,42 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+20+20+25+71 | 0,95 | 1,18 | 1,18 | 1,48 | 4,21 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,09 | 1,37 | 1,37 | 1,71 | 4,86 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,62) | 1100 | 10,30 |
| 16+20+20+35+35 | 1,14 | 1,43 | 1,43 | 2,50 | 2,50 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,32 | 1,65 | 1,65 | 2,89 | 2,89 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,50 - 3,62) | 1075 | 10,10 |
| 16+20+20+35+42 | 1,08 | 1,35 | 1,35 | 2,37 | 2,85 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,25 | 1,56 | 1,56 | 2,74 | 3,29 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 16+20+20+35+50 | 1,02 | 1,28 | 1,28 | 2,23 | 3,19 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,18 | 1,48 | 1,48 | 2,58 | 3,68 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+20+20+35+60 | 0,95 | 1,19 | 1,19 | 2,09 | 3,58 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,10 | 1,38 | 1,38 | 2,41 | 4,13 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+20+20+35+71 | 0,89 | 1,11 | 1,11 | 1,94 | 3,95 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,03 | 1,28 | 1,28 | 2,25 | 4,56 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+20+42+42 | 1,02 | 1,29 | 1,29 | 2,70 | 2,70 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,18 | 1,49 | 1,49 | 3,12 | 3,12 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+20+20+42+50 | 0,97 | 1,22 | 1,22 | 2,55 | 3,04 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,12 | 1,41 | 1,41 | 2,95 | 3,51 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+20+42+60 | 0,91 | 1,14 | 1,14 | 2,39 | 3,42 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,05 | 1,32 | 1,32 | 2,76 | 3,95 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+20+42+71 | 0,85 | 1,07 | 1,07 | 2,24 | 3,77 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,98 | 1,23 | 1,23 | 2,58 | 4,38 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+20+20+50+50 | 0,94 | 1,15 | 1,15 | 2,88 | 2,88 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,08 | 1,33 | 1,33 | 3,33 | 3,33 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+20+50+60 | 0,87 | 1,08 | 1,08 | 2,71 | 3,26 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,00 | 1,25 | 1,25 | 3,13 | 3,77 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+20+50+71 | 0,81 | 1,02 | 1,02 | 2,54 | 3,61 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 0,94 | 1,18 | 1,18 | 2,94 | 4,16 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 16+20+20+60+60 | 0,82 | 1,02 | 1,02 | 3,07 | 3,07 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,94 | 1,18 | 1,18 | 3,55 | 3,55 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+25+25+25 | 1,29 | 1,62 | 2,03 | 2,03 | 2,03 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,50 | 1,88 | 2,34 | 2,34 | 2,34 | 10,40 (3,40 - 14,50) | 4,86 

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+20+25+35+71 | 0,86 | 1,08 | 1,35 | 1,89 | 3,82 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,00 | 1,25 | 1,56 | 2,18 | 4,41 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+25+42+42 | 0,99 | 1,24 | 1,55 | 2,61 | 2,61 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,15 | 1,43 | 1,80 | 3,01 | 3,01 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+20+25+42+50 | 0,94 | 1,18 | 1,47 | 2,47 | 2,94 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,09 | 1,36 | 1,70 | 2,85 | 3,40 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+25+42+60 | 0,88 | 1,10 | 1,38 | 2,32 | 3,32 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,02 | 1,28 | 1,60 | 2,68 | 3,82 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+20+25+42+71 | 0,83 | 1,03 | 1,29 | 2,17 | 3,68 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,96 | 1,20 | 1,49 | 2,51 | 4,24 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+20+25+50+50 | 0,89 | 1,12 | 1,39 | 2,80 | 2,80 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,03 | 1,29 | 1,62 | 3,23 | 3,23 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+25+50+60 | 0,84 | 1,05 | 1,32 | 2,63 | 3,16 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,97 | 1,22 | 1,52 | 3,04 | 3,65 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+25+50+71 | 0,79 | 0,99 | 1,24 | 2,47 | 3,51 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 0,91 | 1,14 | 1,43 | 2,86 | 4,06 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 16+20+25+60+60 | 0,80 | 0,99 | 1,25 | 2,98 | 2,98 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,91 | 1,15 | 1,44 | 3,45 | 3,45 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+20+35+35+35 | 1,02 | 1,29 | 2,23 | 2,23 | 2,23 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,34) | 1105 | 10,60 | 1,18 | 1,48 | 2,58 | 2,58 | 2,58 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,51 - 3,59) | 1090 | 10,20 |
| 16+20+35+35+42 | 0,97 | 1,22 | 2,13 | 2,13 | 2,55 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,12 | 1,41 | 2,46 | 2,46 | 2,95 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 16+20+35+35+50 | 0,92 | 1,15 | 2,02 | 2,02 | 2,89 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,07 | 1,33 | 2,33 | 2,33 | 3,34 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+20+35+35+60 | 0,87 | 1,08 | 1,90 | 1,90 | 3,25 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,00 | 1,25 | 2,19 | 2,19 | 3,77 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+20+35+35+71 | 0,81 | 1,02 | 1,78 | 1,78 | 3,61 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,94 | 1,18 | 2,06 | 2,06 | 4,16 | 10,40 (3,40 - 14,50) | 4,68 | 4,68 A++ | 2,22 (0,63 - 3,63) | 1110 | 10,40 |
| 16+20+35+42+42 | 0,93 | 1,16 | 2,03 | 2,44 | 2,44 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,07 | 1,34 | 2,35 | 2,82 | 2,82 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 16+20+35+42+50 | 0,88 | 1,10 | 1,93 | 2,32 | 2,77 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,02 | 1,28 | 2,23 | 2,68 | 3,19 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+20+35+42+60 | 0,83 | 1,04 | 1,82 | 2,18 | 3,13 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,96 | 1,20 | 2,10 | 2,52 | 3,62 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+20+35+50+50 | 0,84 | 1,05 | 1,85 | 2,63 | 2,63 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,97 | 1,22 | 2,13 | 3,04 | 3,04 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,74 - 3,65) | 1165 | 10,90 |
| 16+20+35+50+60 | 0,80 | 0,99 | 1,74 | 2,49 | 2,98 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,92 | 1,15 | 2,01 | 2,87 | 3,45 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,74 - 3,65) | 1165 | 10,90 |
| 16+20+42+42+42 | 0,89 | 1,12 | 2,33 | 2,33 | 2,33 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,34) | 1075 | 10,30 | 1,02 | 1,28 | 2,70 | 2,70 | 2,70 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 16+20+42+42+50 | 0,85 | 1,06 | 2,22 | 2,22 | 2,65 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,98 | 1,22 | 2,57 | 2,57 | 3,06 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 16+20+42+42+60 | 0,80 | 1,00 | 2,10 | 2,10 | 3,00 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,92 | 1,16 | 2,43 | 2,43 | 3,46 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 16+20+42+50+50 | 0,81 | 1,01 | 2,12 | 2,53 | 2,53 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 0,93 | 1,17 | 2,46 | 2,92 | 2,92 | 10,40 (3,40 - 14,50) | 4,41 | 4,68 A++ | 2,36 (0,75 - 3,64) | 1180 | 11,10 |
| 16+25+25+25+25 | 1,24 | 1,94 | 1,94 | 1,94 | 1,94 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,45 - 3,49) | 1100 | 10,50 | 1,44 | 2,24 | 2,24 | 2,24 | 2,24 | 10,40 (3,40 - 14,50) | 4,86 | 4,68 A++ | 2,14 (0,46 - 3,68) | 1070 | 10,10 |
| 16+25+25+25+35 | 1,14 | 1,79 | 1,79 | 1,79 | 2,49 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,41) | 1100 | 10,50 | 1,32 | 2,06 | 2,06 | 2,06 | 2,90 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,48 - 3,65) | 1085 | 10,20 |
| 16+25+25+25+42 | 1,08 | 1,69 | 1,69 | 1,69 | 2,85 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,25 | 1,95 | 1,95 | 1,95 | 3,30 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 16+25+25+25+50 | 1,02 | 1,60 | 1,60 | 1,60 | 3,18 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,18 | 1,84 | 1,84 | 1,84 | 3,70 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+25+25+25+60 | 0,95 | 1,49 | 1,49 | 1,49 | 3,58 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,54 - 3,28) | 1080 | 10,30 | 1,10 | 1,72 | 1,72 | 1,72 | 4,14 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 16+25+25+25+71 | 0,89 | 1,39 | 1,39 | 1,39 | 3,94 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,03 | 1,60 | 1,60 | 1,60 | 4,57 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,58 - 3,62) | 1100 | 10,30 |
| 16+25+25+35+35 | 1,06 | 1,65 | 1,65 | 2,32 | 2,32 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,22 | 1,91 | 1,91 | 2,68 | 2,68 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,50 - 3,62) | 1075 | 10,10 |
| 16+25+25+35+42 | 1,01 | 1,57 | 1,57 | 2,20 | 2,65 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,16 | 1,82 | 1,82 | 2,55 | 3,05 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 16+25+25+35+50 | 0,95 | 1,49 | 1,49 | 2,09 | 2,98 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,10 | 1,72 | 1,72 | 2,41 | 3,45 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+25+25+35+60 | 0,89 | 1,40 | 1,40 | 1,96 | 3,35 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,03 | 1,61 | 1,61 | 2,26 | 3,89 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A++ | 2,19 (0,60 - 3,61) | 1095 | 10,30 |
| 16+25+25+35+71 | 0,84 | 1,31 | 1,31 | 1,83 | 3,71 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,97 | 1,51 | 1,51 | 2,12 | 4,29 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+25+25+42+42 | 0,96 | 1,50 | 1,50 | 2,52 | 2,52 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,12 | 1,73 | 1,73 | 2,91 | 2,91 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 16+25+25+42+50 | 0,91 | 1,42 | 1,42 | 2,39 | 2,86 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,05 | 1,65 | 1,65 | 2,76 | 3,29 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+25+25+42+60 | 0,86 | 1,34 | 1,34 | 2,25 | 3,21 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 0,99 | 1,55 | 1,55 | 2,60 | 3,71 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 16+25+25+42+71 | 0,80 | 1,26 | 1,26 | 2,11 | 3,57 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,93 | 1,45 | 1,45 | 2,44 | 4,13 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+25+25+50+50 | 0,86 | 1,36 | 1,36 | 2,71 | 2,71 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 1,00 | 1,57 | 1,57 | 3,13 | 3,13 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+25+25+50+60 | 0,82 | 1,28 | 1,28 | 2,56 | 3,06 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,63 - 3,23) | 1130 | 10,80 | 0,95 | 1,48 | 1,48 | 2,95 | 3,54 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,71 - 3,61) | 1165 | 10,90 |
| 16+25+35+35+35 | 0,99 | 1,53 | 2,16 | 2,16 | 2,16 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,34) | 1105 | 10,60 | 1,14 | 1,79 | 2,49 | 2,49 | 2,49 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,51 - 3,59) | 1090 | 10,20 |
| 16+25+35+35+42 | 0,94 | 1,47 | 2,06 | 2,06 | 2,47 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,09 | 1,70 | 2,38 | 2,38 | 2,85 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 16+25+35+35+50 | 0,89 | 1,40 | 1,96 | 1,96 | 2,79 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 1,03 | 1,61 | 2,26 | 2,26 | 3,24 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+25+35+35+60 | 0,84 | 1,32 | 1,84 | 1,84 | 3,16 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,29) | 1085 | 10,40 | 0,97 | 1,52 | 2,13 | 2,13 | 3,65 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 16+25+35+35+71 | 0,79 | 1,24 | 1,73 | 1,73 | 3,51 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,91 | 1,43 | 2,00 | 2,00 | 4,06 | 10,40 (3,40 - 14,50) | 4,68 | 4,68 A++ | 2,22 (0,63 - 3,63) | 1110 | 10,40 |
| 16+25+35+42+42 | 0,90 | 1,41 | 1,97 | 2,36 | 2,36 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,03 | 1,63 | 2,28 | 2,73 | 2,73 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 16+25+35+42+50 | 0,86 | 1,34 | 1,88 | 2,25 | 2,67 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,99 | 1,55 | 2,17 | 2,60 | 3,09 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+25+35+42+60 | 0,81 | 1,26 | 1,77 | 2,12 | 3,04 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,93 | 1,46 | 2,04 | 2,45 | 3,52 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 16+25+35+50+50 | 0,82 | 1,28 | 1,78 | 2,56 | 2,56 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,66 - 3,24) | 1135 | 10,90 | 0,95 | 1,48 | 2,07 | 2,95 | 2,95 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A++ | 2,33 (0,74 - 3,65) | 1165 | 10,90 |
| 16+25+42+42+42 | 0,86 | 1,36 | 2,26 | 2,26 | 2,26 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,34) | 1075 | 10,30 | 0,98 | 1,56 | 2,62 | 2,62 | 2,62 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 16+25+42+42+50 | 0,82 | 1,29 | 2,16 | 2,16 | 2,57 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,95 | 1,49 | 2,50 | 2,50 | 2,96 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 16+25+42+50+50 | 0,79 | 1,23 | 2,06 | 2,46 | 2,46 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 0,91 | 1,42 | 2,39 | 2,84 | 2,84 | 10,40 (3,40 - 14,50) | 4,41 | 4,68 A++ | 2,36 (0,75 - 3,64) | 1180 | 11,10 |
| 16+35+35+35+35 | 0,92 | 2,02 | 2,02 | 2,02 | 2,02 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,08 | 2,33 | 2,33 | 2,33 | 2,33 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 16+35+35+35+42 | 0,88 | 1,93 | 1,93 | 1,93 | 2,33 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,52 - 3,35) | 1080 | 10,30 | 1,02 | 2,23 | 2,23 | 2,23 | 2,69 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 16+35+35+35+50 | 0,84 | 1,84 | 1,84 | 1,84 | 2,64 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,97 | 2,13 | 2,13 | 2,13 | 3,04 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,65 - 3,62) | 1130 | 10,60 |
| 16+35+35+35+60 | 0,80 | 1,74 | 1,74 | 1,74 | 2,98 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,92 | 2,01 | 2,01 | 2,01 | 3,45 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,65 - 3,62) | 1130 | 10,60 |
| 16+35+35+42+42 | 0,86 | 1,85 | 1,85 | 2,22 | 2,22 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 0,98 | 2,14 | 2,14 | 2,57 | 2,57 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A++ | 2,17 (0,55 - 3,60) | 1085 | 10,20 |
| 16+35+35+42+50 | 0,81 | 1,77 | 1,77 | 2,12 | 2,53 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 0,93 | 2,04 | 2,04 | 2,45 | 2,94 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A++ | 2,26 (0,65 - 3,61) | 1130 | 10,60 |
| 16+35+42+42+42 | 0,81 | 1,77 | 2,14 | 2,14 | 2,14 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 0,93 | 2,06 | 2,47 | 2,47 | 2,47 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 20+20+20+20+20 | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,46 - 3,67) | 1065 | 10,00 |
| 20+20+20+20+25 | 1,71 | 1,71 | 1,71 | 1,71 | 2,16 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,98 | 1,98 | 1,98 | 1,98 | 2,48 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,46 - 3,67) | 1065 | 10,00 |
| 20+20+20+20+35 | 1,57 | 1,57 | 1,57 | 1,57 | 2,72 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,81 | 1,81 | 1,81 | 1,81 | 3,16 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 20+20+20+20+42 | 1,48 | 1,48 | 1,48 | 1,48 | 3,08 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,70 | 1,70 | 1,70 | 1,70 | 3,60 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 20+20+20+20+50 | 1,38 | 1,38 | 1,38 | 1,38 | 3,48 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,60 | 1,60 | 1,60 | 1,60 | 4,00 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+20+20+20+60 | 1,29 | 1,29 | 1,29 | 1,29 | 3,84 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,49 | 1,49 | 1,49 | 1,49 | 4,44 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+20+20+20+71 | 1,19 | 1,19 | 1,19 | 1,19 | 4,24 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,38 | 1,38 | 1,38 | 1,38 | 4,88 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A++ | 2,19 (0,59 - 3,61) | 1095 | 10,30 |
| 20+20+20+20+25 | 1,64 | 1,64 | 1,64 | 2,04 | 2,04 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,89 | 1,89 | 1,89 | 2,36 | 2,36 | 10,39 (3,40 - 14,50) | 4,88 | 4,68 A++ | 2,13 (0,46 - 3,67) | 1065 | 10,00 |
| 20+20+20+20+35 | 1,50 | 1,50 | 1,50 | 1,88 | 2,62 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,73 | 1,73 | 1,73 | 2,17 | 3,04 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 20+20+20+20+42 | 1,42 | 1,42 | 1,42 | 1,77 | 2,97 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,64 | 1,64 | 1,64 | 2,05 | 3,43 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 20+20+20+20+50 | 1,33 | 1,33 | 1,33 | 1,67 | 3,34 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,54 | 1,54 | 1,54 | 1,93 | 3,85 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+20+20+20+60 | 1,24 | 1,24 | 1,24 | 1,55 | 3,73 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,43 | 1,43 | 1,43 | 1,79 | 4,32 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+20+20+20+71 | 1,15 | 1,15 | 1,15 | 1,44 | 4,11 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,33 | 1,33 | 1,33 | 1,67 | 4,74 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A++ | 2,19 (0,59 - 3,61) | 1095 | 10,30 |
| 20+20+20+35+35 | 1,38 | 1,38 | 1,38 | 2,43 | 2,43 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,60 | 1,60 | 1,60 | 2,80 | 2,80 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 20+20+20+35+42 | 1,31 | 1,31 | 1,31 | 2,30 | 2,77 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,52 | 1,52 | 1,52 | 2,66 | 3,18 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+20+20+35+50 | 1,24 | 1,24 | 1,24 | 2,17 | 3,11 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,43 | 1,43 | 1,43 | 2,51 | 3,60 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+20+20+35+60 | 1,16 | 1,16 | 1,16 | 2,03 | 3,49 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,34 | 1,34 | 1,34 | 2,35 | 4,03 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+20+20+35+71 | 1,08 | 1,08 | 1,08 | 1,90 | 3,86 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,25 | 1,25 | 1,25 | 2,19 | 4,46 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 20+20+20+42+42 | 1,25 | 1,25 | 1,25 | 2,62 | 2,62 | 8,99 (2,90 - 11,50) | 4,18 | 8,50 A+++ | 2,15 (0,49 - 3,42) | 1075 | 10,30 | 1,44 | 1,44 | 1,44 | 3,04 | 3,04 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A++ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+20+20+42+50 | 1,18 | 1,18 | 1,18 | 2,49 | 2,97 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,37 | 1,37 | 1,37 | 2,87 | 3,42 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+20+20+42+60 | 1,11 | 1,11 | 1,11 | 2,33 | 3,34 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,28 | 1,28 | 1,28 | 2,70 | 3,86 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+20+20+42+71 | 1,04 | 1,04 | 1,04 | 2,18 | 3,70 | 9,00 

# Free Multi R32 combinations table

## Free Multi 5x1 CU-5Z90TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 18,30kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 20+20+25+25+60 | 1,20 | 1,20 | 1,50 | 1,50 | 3,60 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,39 | 1,39 | 1,73 | 1,73 | 4,16 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+20+25+25+71 | 1,12 | 1,12 | 1,40 | 1,40 | 3,96 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,29 | 1,29 | 1,61 | 1,61 | 4,60 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,59 - 3,61) | 1095 | 10,30 |
| 20+20+25+35+35 | 1,33 | 1,33 | 1,68 | 2,33 | 2,33 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,54 | 1,54 | 1,92 | 2,70 | 2,70 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 20+20+25+35+42 | 1,27 | 1,27 | 1,58 | 2,22 | 2,66 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,46 | 1,46 | 1,83 | 2,56 | 3,09 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+20+25+35+50 | 1,20 | 1,20 | 1,50 | 2,10 | 3,00 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,39 | 1,39 | 1,73 | 2,43 | 3,46 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+20+25+35+60 | 1,13 | 1,13 | 1,41 | 1,97 | 3,36 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,30 | 1,30 | 1,63 | 2,28 | 3,89 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+20+25+35+71 | 1,05 | 1,05 | 1,32 | 1,84 | 3,74 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,22 | 1,22 | 1,52 | 2,13 | 4,31 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 20+20+25+42+42 | 1,21 | 1,21 | 1,50 | 2,54 | 2,54 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,40 | 1,40 | 1,74 | 2,93 | 2,93 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+20+25+42+50 | 1,15 | 1,15 | 1,43 | 2,41 | 2,86 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,32 | 1,32 | 1,66 | 2,78 | 3,32 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+20+25+42+60 | 1,08 | 1,08 | 1,35 | 2,26 | 3,23 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,25 | 1,25 | 1,56 | 2,62 | 3,72 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+20+25+42+71 | 1,01 | 1,01 | 1,26 | 2,12 | 3,60 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,17 | 1,17 | 1,46 | 2,45 | 4,15 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+20+25+50+50 | 1,09 | 1,09 | 1,36 | 2,73 | 2,73 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,23) | 1130 | 10,80 | 1,26 | 1,26 | 1,58 | 3,15 | 3,15 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 20+20+25+50+60 | 1,03 | 1,03 | 1,29 | 2,57 | 3,08 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,23) | 1130 | 10,80 | 1,19 | 1,19 | 1,49 | 2,97 | 3,56 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 20+20+35+35+35 | 1,24 | 1,24 | 2,17 | 2,17 | 2,17 | 8,99 (2,90 - 11,50) | 4,18 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,43 | 1,43 | 2,51 | 2,51 | 2,51 | 10,39 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 20+20+35+35+42 | 1,18 | 1,18 | 2,07 | 2,07 | 2,50 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,50 - 3,34) | 1075 | 10,30 | 1,37 | 1,37 | 2,39 | 2,39 | 2,88 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 20+20+35+35+50 | 1,13 | 1,13 | 1,97 | 1,97 | 2,80 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,30 | 1,30 | 2,28 | 2,28 | 3,24 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+20+35+35+60 | 1,06 | 1,06 | 1,85 | 1,85 | 3,18 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,22 | 1,22 | 2,14 | 2,14 | 3,68 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+20+35+35+71 | 0,99 | 0,99 | 1,74 | 1,74 | 3,54 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,61 - 3,29) | 1090 | 10,40 | 1,15 | 1,15 | 2,01 | 2,01 | 4,08 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,64 - 3,62) | 1130 | 10,60 |
| 20+20+35+42+42 | 1,13 | 1,13 | 1,98 | 2,38 | 2,38 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,31 | 1,31 | 2,28 | 2,75 | 2,75 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 20+20+35+42+50 | 1,08 | 1,08 | 1,89 | 2,26 | 2,69 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,25 | 1,25 | 2,18 | 2,62 | 3,10 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 20+20+35+42+60 | 1,02 | 1,02 | 1,78 | 2,14 | 3,04 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,18 | 1,18 | 2,06 | 2,47 | 3,51 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 20+20+35+50+50 | 1,03 | 1,03 | 1,80 | 2,57 | 2,57 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 1,19 | 1,19 | 2,08 | 2,97 | 2,97 | 10,40 (3,40 - 14,50) | 4,41 | 4,68 A+++ | 2,36 (0,75 - 3,64) | 1180 | 11,10 |
| 20+20+42+42+42 | 1,08 | 1,08 | 2,28 | 2,28 | 2,28 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,25 | 1,25 | 2,63 | 2,63 | 2,63 | 10,39 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 20+20+42+42+50 | 1,03 | 1,03 | 2,17 | 2,17 | 2,60 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,20 | 1,20 | 2,51 | 2,51 | 2,98 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,65 - 3,61) | 1130 | 10,60 |
| 20+20+42+50+50 | 0,99 | 0,99 | 2,08 | 2,47 | 2,47 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 1,14 | 1,14 | 2,40 | 2,86 | 2,86 | 10,40 (3,40 - 14,50) | 4,39 | 4,68 A+++ | 2,37 (0,75 - 3,69) | 1185 | 11,10 |
| 20+25+25+25+25 | 1,48 | 1,88 | 1,88 | 1,88 | 1,88 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 1,72 | 2,17 | 2,17 | 2,17 | 2,17 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A+++ | 2,13 (0,46 - 3,67) | 1065 | 10,00 |
| 20+25+25+25+35 | 1,38 | 1,73 | 1,73 | 1,73 | 2,43 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,60 | 2,00 | 2,00 | 2,00 | 2,80 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 20+25+25+25+42 | 1,31 | 1,64 | 1,64 | 1,64 | 2,77 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,52 | 1,90 | 1,90 | 1,90 | 3,18 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 20+25+25+25+50 | 1,24 | 1,55 | 1,55 | 1,55 | 3,11 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,43 | 1,79 | 1,79 | 1,79 | 3,60 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+25+25+25+60 | 1,16 | 1,45 | 1,45 | 1,45 | 3,49 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,34 | 1,68 | 1,68 | 1,68 | 4,02 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 20+25+25+25+71 | 1,08 | 1,36 | 1,36 | 1,36 | 3,84 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,25 | 1,57 | 1,57 | 1,57 | 4,44 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,59 - 3,61) | 1095 | 10,30 |
| 20+25+25+35+35 | 1,28 | 1,61 | 1,61 | 2,25 | 2,25 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,48 | 1,86 | 1,86 | 2,60 | 2,60 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 20+25+25+35+42 | 1,22 | 1,53 | 1,53 | 2,14 | 2,58 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,41 | 1,77 | 1,77 | 2,48 | 2,97 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 20+25+25+35+50 | 1,16 | 1,45 | 1,45 | 2,03 | 2,91 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,34 | 1,68 | 1,68 | 2,35 | 3,35 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+25+25+35+60 | 1,09 | 1,36 | 1,36 | 1,91 | 3,28 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,26 | 1,58 | 1,58 | 2,21 | 3,77 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 20+25+25+35+71 | 1,02 | 1,28 | 1,28 | 1,79 | 3,63 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,18 | 1,48 | 1,48 | 2,07 | 4,19 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 20+25+25+42+42 | 1,18 | 1,46 | 1,46 | 2,45 | 2,45 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,34 | 1,69 | 1,69 | 2,84 | 2,84 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 20+25+25+42+50 | 1,11 | 1,39 | 1,39 | 2,33 | 2,78 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,28 | 1,60 | 1,60 | 2,70 | 3,22 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+25+25+42+60 | 1,05 | 1,31 | 1,31 | 2,20 | 3,13 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,21 | 1,51 | 1,51 | 2,54 | 3,63 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 20+25+25+42+71 | 0,98 | 1,23 | 1,23 | 2,07 | 3,49 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,14 | 1,42 | 1,42 | 2,39 | 4,03 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+25+25+50+50 | 1,06 | 1,32 | 1,32 | 2,65 | 2,65 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,23) | 1130 | 10,80 | 1,22 | 1,53 | 1,53 | 3,06 | 3,06 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 20+25+25+50+60 | 1,00 | 1,25 | 1,25 | 2,50 | 3,00 | 9,00 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,23) | 1130 | 10,80 | 1,16 | 1,44 | 1,44 | 2,89 | 3,47 | 10,40 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 20+25+35+35+35 | 1,20 | 1,50 | 2,10 | 2,10 | 2,10 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,38 | 1,73 | 2,43 | 2,43 | 2,43 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 20+25+35+35+42 | 1,15 | 1,43 | 2,01 | 2,01 | 2,40 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,50 - 3,34) | 1075 | 10,30 | 1,32 | 1,66 | 2,32 | 2,32 | 2,78 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 20+25+35+35+50 | 1,09 | 1,36 | 1,91 | 1,91 | 2,73 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,26 | 1,58 | 2,21 | 2,21 | 3,14 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+25+35+35+60 | 1,03 | 1,29 | 1,80 | 1,80 | 3,08 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,19 | 1,49 | 2,08 | 2,08 | 3,56 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 20+25+35+42+42 | 1,10 | 1,37 | 1,93 | 2,30 | 2,30 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,27 | 1,59 | 2,22 | 2,66 | 2,66 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 20+25+35+42+50 | 1,05 | 1,31 | 1,83 | 2,20 | 2,61 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,21 | 1,51 | 2,12 | 2,54 | 3,02 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 20+25+35+42+60 | 0,99 | 1,24 | 1,73 | 2,08 | 2,96 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,14 | 1,43 | 2,00 | 2,40 | 3,43 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 20+25+35+50+50 | 1,00 | 1,25 | 1,75 | 2,50 | 2,50 | 9,00 (2,90 - 11,50) | 3,96 | 8,50 A+++ | 2,27 (0,67 - 3,24) | 1135 | 10,90 | 1,16 | 1,44 | 2,02 | 2,89 | 2,89 | 10,40 (3,40 - 14,50) | 4,41 | 4,68 A+++ | 2,36 (0,75 - 3,64) | 1180 | 11,10 |
| 20+25+42+42+42 | 1,05 | 1,32 | 2,21 | 2,21 | 2,21 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,23 | 1,52 | 2,55 | 2,55 | 2,55 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 20+25+42+42+50 | 1,01 | 1,26 | 2,11 | 2,11 | 2,51 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,16 | 1,45 | 2,44 | 2,44 | 2,91 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,65 - 3,61) | 1130 | 10,60 |
| 20+35+35+35+35 | 1,12 | 1,97 | 1,97 | 1,97 | 1,97 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,28 | 2,28 | 2,28 | 2,28 | 2,28 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,61) | 1085 | 10,20 |
| 20+35+35+35+42 | 1,08 | 1,89 | 1,89 | 1,89 | 2,25 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,25 | 2,18 | 2,18 | 2,18 | 2,61 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,55 - 3,60) | 1085 | 10,20 |
| 20+35+35+35+50 | 1,03 | 1,80 | 1,80 | 1,80 | 2,57 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,19 | 2,08 | 2,08 | 2,08 | 2,97 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,65 - 3,61) | 1130 | 10,60 |
| 20+35+35+42+42 | 1,04 | 1,81 | 1,81 | 2,17 | 2,17 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,20 | 2,09 | 2,09 | 2,51 | 2,51 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,56 - 3,59) | 1100 | 10,30 |
| 20+35+35+42+50 | 0,99 | 1,73 | 1,73 | 2,08 | 2,47 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,14 | 2,00 | 2,00 | 2,40 | 2,86 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,66 - 3,60) | 1130 | 10,60 |
| 20+35+42+42+42 | 0,99 | 1,74 | 2,09 | 2,09 | 2,09 | 9,00 (2,90 - 11,50) | 4,17 | 8,50 A+++ | 2,16 (0,53 - 3,35) | 1080 | 10,30 | 1,15 | 2,02 | 2,41 | 2,41 | 2,41 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,57 - 3,58) | 1100 | 10,30 |
| 25+25+25+25+25 | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 | 9,00 (2,90 - 11,50) | 4,09 | 8,50 A+++ | 2,20 (0,48 - 3,49) | 1100 | 10,50 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 10,40 (3,40 - 14,50) | 4,88 | 4,68 A+++ | 2,13 (0,46 - 3,67) | 1065 | 10,00 |
| 25+25+25+25+35 | 1,67 | 1,67 | 1,67 | 1,67 | 2,32 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,48 - 3,41) | 1105 | 10,60 | 1,93 | 1,93 | 1,93 | 1,93 | 2,68 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,48 - 3,64) | 1080 | 10,20 |
| 25+25+25+25+42 | 1,58 | 1,58 | 1,58 | 1,58 | 2,68 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,41) | 1105 | 10,60 | 1,83 | 1,83 | 1,83 | 1,83 | 3,08 | 10,40 (3,40 - 14,50) | 4,81 | 4,68 A+++ | 2,16 (0,49 - 3,63) | 1080 | 10,20 |
| 25+25+25+25+50 | 1,50 | 1,50 | 1,50 | 1,50 | 3,00 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,73 | 1,73 | 1,73 | 1,73 | 3,48 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 25+25+25+25+60 | 1,41 | 1,41 | 1,41 | 1,41 | 3,36 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,54 - 3,28) | 1085 | 10,40 | 1,63 | 1,63 | 1,63 | 1,63 | 3,88 | 10,40 (3,40 - 14,50) | 4,73 | 4,68 A+++ | 2,20 (0,58 - 3,63) | 1100 | 10,30 |
| 25+25+25+25+71 | 1,32 | 1,32 | 1,32 | 1,32 | 3,72 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,52 | 1,52 | 1,52 | 1,52 | 4,32 | 10,40 (3,40 - 14,50) | 4,75 | 4,68 A+++ | 2,19 (0,59 - 3,61) | 1095 | 10,30 |
| 25+25+25+35+35 | 1,55 | 1,55 | 1,55 | 2,17 | 2,17 | 8,99 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,79 | 1,79 | 1,79 | 2,51 | 2,51 | 10,39 (3,40 - 14,50) | 4,83 | 4,68 A+++ | 2,15 (0,51 - 3,61) | 1075 | 10,10 |
| 25+25+25+35+42 | 1,48 | 1,48 | 1,48 | 2,07 | 2,49 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,71 | 1,71 | 1,71 | 2,39 | 2,88 | 10,40 (3,40 - 14,50) | 4,84 | 4,68 A+++ | 2,15 (0,51 - 3,60) | 1075 | 10,10 |
| 25+25+25+35+50 | 1,41 | 1,41 | 1,41 | 1,97 | 2,80 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,63 | 1,63 | 1,63 | 2,28 | 3,23 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 25+25+25+35+60 | 1,32 | 1,32 | 1,32 | 1,85 | 3,19 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,53 | 1,53 | 1,53 | 2,14 | 3,67 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,60 - 3,60) | 1115 | 10,50 |
| 25+25+25+35+71 | 1,24 | 1,24 | 1,24 | 1,74 | 3,54 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,44 | 1,44 | 1,44 | 2,01 | 4,07 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,62 - 3,59) | 1115 | 10,50 |
| 25+25+25+42+42 | 1,42 | 1,42 | 1,42 | 2,37 | 2,37 | 9,00 (2,90 - 11,50) | 4,07 | 8,50 A+++ | 2,21 (0,49 - 3,42) | 1105 | 10,60 | 1,64 | 1,64 | 1,64 | 2,74 | 2,74 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,59) | 1090 | 10,20 |
| 25+25+25+42+50 | 1,35 | 1,35 | 1,35 | 2,26 | 2,69 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,56 | 1,56 | 1,56 | 2,62 | 3,10 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 25+25+25+42+60 | 1,27 | 1,27 | 1,27 | 2,14 | 3,05 | 9,00 (2,90 - 11,50) | 4,15 | 8,50 A+++ | 2,17 (0,57 - 3,28) | 1085 | 10,40 | 1,47 | 1,47 | 1,47 | 2,47 | 3,52 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,61 - 3,59) | 1115 | 10,50 |
| 25+25+25+50+50 | 1,29 | 1,29 | 1,29 | 2,56 | 2,56 | 8,99 (2,90 - 11,50) | 3,98 | 8,50 A+++ | 2,26 (0,66 - 3,23) | 1130 | 10,80 | 1,49 | 1,49 | 1,49 | 2,96 | 2,96 | 10,39 (3,40 - 14,50) | 4,46 | 4,68 A+++ | 2,33 (0,72 - 3,66) | 1165 | 10,90 |
| 25+25+35+35+35 | 1,45 | 1,45 | 2,03 | 2,03 | 2,03 | 8,99 (2,90 - 11,50) | 4,18 | 8,50 A+++ | 2,15 (0,49 - 3,34) | 1075 | 10,30 | 1,67 | 1,67 | 2,35 | 2,35 | 2,35 | 10,39 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,52 - 3,64) | 1090 | 10,20 |
| 25+25+35+35+42 | 1,39 | 1,39 | 1,94 | 1,94 | 2,34 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,50 - 3,34) | 1075 | 10,30 | 1,60 | 1,60 | 2,25 | 2,25 | 2,70 | 10,40 (3,40 - 14,50) | 4,77 | 4,68 A+++ | 2,18 (0,53 - 3,63) | 1090 | 10,20 |
| 25+25+35+35+50 | 1,32 | 1,32 | 1,85 | 1,85 | 2,66 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,53 | 1,53 | 2,14 | 2,14 | 3,06 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 25+25+35+35+60 | 1,25 | 1,25 | 1,75 | 1,75 | 3,00 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,44 | 1,44 | 2,02 | 2,02 | 3,48 | 10,40 (3,40 - 14,50) | 4,66 | 4,68 A+++ | 2,23 (0,63 - 3,63) | 1115 | 10,50 |
| 25+25+35+42+42 | 1,33 | 1,33 | 1,86 | 2,24 | 2,24 | 9,00 (2,90 - 11,50) | 4,19 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,54 | 1,54 | 2,16 | 2,58 | 2,58 | 10,40 (3,40 - 14,50) | 4,79 | 4,68 A+++ | 2,17 (0,54 - 3,62) | 1085 | 10,20 |
| 25+25+35+42+50 | 1,27 | 1,27 | 1,78 | 2,14 | 2,54 | 9,00 (2,90 - 11,50) | 4,13 | 8,50 A+++ | 2,18 (0,58 - 3,29) | 1090 | 10,40 | 1,47 | 1,47 | 2,06 | 2,47 | 2,93 | 10,40 (3,40 - 14,50) | 4,60 | 4,68 A+++ | 2,26 (0,63 - 3,62) | 1130 | 10,60 |
| 25+25+42+42+42 | 1,27 | 1,27 | 2,15 | 2,15 | 2,15 | 8,99 (2,90 - 11,50) | 4,18 | 8,50 A+++ | 2,15 (0,52 - 3,35) | 1075 | 10,30 | 1,48 | 1,48 | 2,48 | 2,48 | 2,48 | 10,40 (3,40 - 14,50) | 4,79 

# Multi Wall TZ combinations table

## Multi Wall TZ 2x1 CU-2TZ41TBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 6,00kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,56 | | 0,45 (0,24 - 0,65) | 225 | 2,15 | 2,60 | | 2,60 (0,70 - 3,80) | 3,42 | | 0,76 (0,18 - 1,24) | 380 | 3,50 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,51 | | 0,57 (0,24 - 0,83) | 285 | 2,70 | 3,20 | | 3,20 (0,70 - 4,80) | 3,44 | | 0,93 (0,18 - 1,57) | 465 | 4,30 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,47 | | 0,72 (0,24 - 1,07) | 360 | 3,40 | 3,60 | | 3,60 (0,70 - 5,50) | 3,24 | | 1,11 (0,18 - 1,88) | 555 | 5,15 |
| 35 | 3,50 | | 3,50 (1,10 - 4,00) | 3,24 | | 1,08 (0,24 - 1,30) | 540 | 5,05 | 4,30 | | 4,30 (0,70 - 6,20) | 3,41 | | 1,26 (0,18 - 2,00) | 630 | 5,85 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,21 | **7,10** A+++ | 0,76 (0,27 - 1,08) | 380 | 3,50 | 2,20 | 2,20 | 4,40 (1,10 - 6,30) | 4,27 | **4,30** A+ | 1,03 (0,22 - 1,80) | 515 | 4,75 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,19 | **7,10** A+++ | 0,86 (0,27 - 1,25) | 430 | 4,00 | 1,95 | 2,45 | 4,40 (1,10 - 6,30) | 4,44 | **4,30** A+ | 0,99 (0,22 - 1,78) | 495 | 4,60 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 1,70 | 2,70 | 4,40 (1,10 - 6,30) | 4,44 | **4,30** A+ | 0,99 (0,22 - 1,78) | 495 | 4,60 |
| 16 + 35 | 1,30 | 2,80 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 1,40 | 3,00 | 4,40 (1,10 - 6,30) | 4,44 | **4,30** A+ | 0,99 (0,22 - 1,78) | 495 | 4,60 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 4,70) | 4,08 | **7,10** A+++ | 0,98 (0,27 - 1,38) | 490 | 4,55 | 2,20 | 2,20 | 4,40 (1,10 - 6,30) | 4,49 | **4,30** A+ | 0,98 (0,22 - 1,76) | 490 | 4,55 |
| 20 + 25 | 1,80 | 2,30 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 1,95 | 2,45 | 4,40 (1,10 - 6,30) | 4,49 | **4,30** A+ | 0,98 (0,22 - 1,76) | 490 | 4,55 |
| 20 + 35 | 1,50 | 2,60 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 1,60 | 2,80 | 4,40 (1,10 - 6,30) | 4,49 | **4,30** A+ | 0,98 (0,22 - 1,76) | 490 | 4,55 |
| 25 + 25 | 2,05 | 2,05 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 2,20 | 2,20 | 4,40 (1,10 - 6,30) | 4,49 | **4,30** A+ | 0,98 (0,22 - 1,76) | 490 | 4,55 |
| 25 + 35 | 1,70 | 2,40 | 4,10 (1,50 - 4,70) | 4,14 | **7,10** A+++ | 0,99 (0,27 - 1,38) | 495 | 4,60 | 1,85 | 2,55 | 4,40 (1,10 - 6,30) | 4,49 | **4,30** A+ | 0,98 (0,22 - 1,76) | 490 | 4,55 |

## Multi Wall TZ 2x1 CU-2TZ50TBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 7,70kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,56 | | 0,45 (0,24 - 0,65) | 225 | 2,15 | 2,60 | | 2,60 (0,70 - 3,80) | 3,42 | | 0,76 (0,18 - 1,24) | 380 | 3,50 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,51 | | 0,57 (0,24 - 0,83) | 285 | 2,70 | 3,20 | | 3,20 (0,70 - 4,80) | 3,44 | | 0,93 (0,18 - 1,57) | 465 | 4,30 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,47 | | 0,72 (0,24 - 1,07) | 360 | 3,40 | 3,60 | | 3,60 (0,70 - 5,50) | 3,24 | | 1,11 (0,18 - 1,88) | 555 | 5,15 |
| 35 | 3,50 | | 3,50 (1,10 - 4,00) | 3,24 | | 1,08 (0,24 - 1,30) | 540 | 5,05 | 4,50 | | 4,50 (0,70 - 6,20) | 3,36 | | 1,34 (0,18 - 2,00) | 670 | 6,20 |
| 42 | 4,20 | | 4,20 (1,10 - 4,50) | 2,90 | | 1,45 (0,24 - 1,60) | 725 | 6,80 | 5,00 | | 5,00 (1,10 - 6,30) | 2,91 | | 1,72 (0,22 - 2,35) | 860 | 7,95 |
| 50 | 5,00 | | 5,00 (1,20 - 5,10) | 2,78 | | 1,80 (0,25 - 1,90) | 900 | 8,30 | 5,30 | | 5,30 (1,10 - 6,30) | 2,93 | | 1,81 (0,22 - 2,33) | 905 | 8,35 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,21 | **7,00** A+++ | 0,76 (0,27 - 1,08) | 380 | 3,50 | 2,65 | 2,65 | 5,30 (1,10 - 6,30) | 4,31 | **4,20** A+ | 1,23 (0,22 - 1,80) | 615 | 5,65 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,19 | **7,00** A+++ | 0,86 (0,27 - 1,25) | 430 | 4,00 | 2,45 | 3,05 | 5,50 (1,10 - 6,30) | 4,30 | **4,20** A+ | 1,28 (0,22 - 1,78) | 640 | 5,85 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 5,20) | 4,14 | **7,00** A+++ | 0,99 (0,27 - 1,48) | 495 | 4,60 | 2,15 | 3,35 | 5,50 (1,10 - 6,30) | 4,30 | **4,20** A+ | 1,28 (0,22 - 1,78) | 640 | 5,85 |
| 16 + 35 | 1,55 | 3,45 | 5,00 (1,50 - 5,20) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,48) | 650 | 6,00 | 1,75 | 3,75 | 5,50 (1,10 - 6,30) | 4,30 | **4,20** A+ | 1,28 (0,22 - 1,78) | 640 | 5,85 |
| 16 + 42 | 1,40 | 3,60 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 1,55 | 4,15 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 16 + 50 | 1,20 | 3,80 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 1,40 | 4,30 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 5,00) | 4,08 | **7,00** A+++ | 0,98 (0,27 - 1,42) | 490 | 4,55 | 2,75 | 2,75 | 5,50 (1,10 - 6,30) | 4,33 | **4,20** A+ | 1,27 (0,22 - 1,76) | 635 | 5,80 |
| 20 + 25 | 2,00 | 2,50 | 4,50 (1,50 - 5,20) | 3,95 | **7,00** A+++ | 1,14 (0,27 - 1,48) | 570 | 5,25 | 2,45 | 3,05 | 5,50 (1,10 - 6,30) | 4,33 | **4,20** A+ | 1,27 (0,22 - 1,76) | 635 | 5,80 |
| 20 + 35 | 1,80 | 3,20 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,05 | 3,65 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 20 + 42 | 1,60 | 3,40 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 1,85 | 3,85 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 20 + 50 | 1,45 | 3,55 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 1,65 | 4,05 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 25 + 25 | 2,50 | 2,50 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,85 | 2,85 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 25 + 35 | 2,10 | 2,90 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,35 | 3,35 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 25 + 42 | 1,85 | 3,15 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,15 | 3,55 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 25 + 50 | 1,65 | 3,35 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 1,90 | 3,80 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 35 + 35 | 2,50 | 2,50 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,85 | 2,85 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |
| 35 + 42 | 2,25 | 2,75 | 5,00 (1,50 - 5,40) | 3,85 | **7,00** A+++ | 1,30 (0,27 - 1,62) | 650 | 6,00 | 2,60 | 3,10 | 5,70 (1,10 - 6,40) | 4,35 | **4,20** A+ | 1,31 (0,22 - 1,77) | 655 | 6,00 |

1) Energy Label Scale from A+++ to D.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Multi Wall TZ combinations table

## Multi Wall TZ 3x1 CU-3TZ52TBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 9,50kW • R32 GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 3,81 | | 0,42 (0,25 - 0,66) | 210 | 2,10 | 2,60 | | | 2,60 (1,20 - 3,20) | 4,06 | | 0,64 (0,30 - 1,00) | 320 | 3,10 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 3,85 | | 0,52 (0,34 - 0,83) | 260 | 2,60 | 3,20 | | | 3,20 (1,20 - 4,10) | 4,10 | | 0,78 (0,30 - 1,27) | 390 | 3,80 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,85 | | 0,65 (0,34 - 0,83) | 325 | 3,10 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,67 | | 0,98 (0,30 - 1,27) | 490 | 4,70 |
| 35 | 3,50 | | | 3,50 (1,80 - 3,80) | 3,65 | | 0,96 (0,34 - 1,38) | 480 | 4,30 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,54 | | 1,27 (0,30 - 2,14) | 635 | 6,00 |
| 42 | 4,20 | | | 4,20 (1,80 - 4,30) | 3,02 | | 1,39 (0,34 - 2,01) | 695 | 6,20 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,18 | | 1,76 (0,30 - 2,97) | 880 | 7,80 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 3,18 | | 1,57 (0,34 - 2,15) | 785 | 6,90 | 6,80 | | | 6,80 (1,20 - 6,90) | 3,18 | | 2,14 (0,30 - 2,56) | 1070 | 9,40 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,80 - 6,20) | 5,08 | **6,10** A+ | 0,63 (0,33 - 2,13) | 315 | 3,10 | 2,60 | 2,60 | | 5,20 (1,40 - 7,00) | 3,88 | **3,80** A | 1,34 (0,34 - 2,07) | 670 | 6,10 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,80 - 6,20) | 4,68 | **6,10** A+ | 0,77 (0,33 - 2,09) | 385 | 3,70 | 2,58 | 3,22 | | 5,80 (1,40 - 7,00) | 3,82 | **3,80** A | 1,52 (0,33 - 2,03) | 760 | 6,90 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,80 - 6,20) | 4,46 | **6,10** A+ | 0,92 (0,33 - 2,09) | 460 | 4,30 | 2,42 | 3,78 | | 6,20 (1,40 - 7,00) | 3,76 | **3,80** A | 1,65 (0,33 - 2,03) | 825 | 7,50 |
| 16 + 35 | 1,60 | 3,50 | | 5,10 (1,80 - 6,30) | 3,78 | **6,10** A+ | 1,35 (0,33 - 2,10) | 675 | 6,20 | 2,13 | 4,67 | | 6,80 (1,40 - 7,30) | 3,72 | **3,80** A | 1,83 (0,29 - 2,13) | 915 | 8,30 |
| 16 + 42 | 1,43 | 3,77 | | 5,20 (1,90 - 6,40) | 3,74 | **6,10** A+ | 1,39 (0,35 - 2,14) | 695 | 6,40 | 1,88 | 4,92 | | 6,80 (1,40 - 7,30) | 3,80 | **3,80** A | 1,79 (0,31 - 2,12) | 895 | 8,10 |
| 16 + 50 | 1,26 | 3,94 | | 5,20 (1,90 - 6,40) | 4,30 | **6,50** A+ | 1,21 (0,34 - 1,82) | 605 | 5,60 | 1,65 | 5,15 | | 6,80 (1,40 - 7,50) | 4,15 | **4,00** A++ | 1,64 (0,27 - 2,00) | 820 | 7,50 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,80 - 6,20) | 4,49 | **6,10** A+ | 0,89 (0,33 - 2,05) | 445 | 4,20 | 3,20 | 3,20 | | 6,40 (1,40 - 7,00) | 3,74 | **3,80** A | 1,71 (0,32 - 2,03) | 855 | 7,80 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,80 - 6,20) | 4,17 | **6,10** A+ | 1,08 (0,33 - 2,05) | 540 | 5,00 | 3,02 | 3,78 | | 6,80 (1,40 - 7,00) | 3,70 | **3,80** A | 1,84 (0,29 - 2,03) | 920 | 8,30 |
| 20 + 35 | 1,89 | 3,31 | | 5,20 (1,80 - 6,30) | 3,74 | **6,10** A+ | 1,39 (0,33 - 2,06) | 695 | 6,40 | 2,47 | 4,33 | | 6,80 (1,40 - 7,30) | 3,80 | **3,80** A | 1,79 (0,28 - 2,12) | 895 | 8,10 |
| 20 + 42 | 1,68 | 3,52 | | 5,20 (1,90 - 6,40) | 3,82 | **6,10** A+ | 1,36 (0,35 - 2,10) | 680 | 6,20 | 2,19 | 4,61 | | 6,80 (1,40 - 7,30) | 3,82 | **3,80** A | 1,78 (0,30 - 2,08) | 890 | 8,10 |
| 20 + 50 | 1,49 | 3,71 | | 5,20 (1,90 - 6,40) | 4,30 | **6,50** A+ | 1,21 (0,34 - 1,82) | 605 | 5,60 | 1,94 | 4,86 | | 6,80 (1,40 - 7,50) | 4,15 | **4,00** A++ | 1,64 (0,27 - 2,00) | 820 | 7,50 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,80 - 6,20) | 3,79 | **6,10** A+ | 1,32 (0,33 - 2,05) | 660 | 6,00 | 3,40 | 3,40 | | 6,80 (1,40 - 7,00) | 3,70 | **3,80** A | 1,84 (0,29 - 2,03) | 920 | 8,30 |
| 25 + 35 | 2,17 | 3,03 | | 5,20 (1,90 - 6,30) | 3,74 | **6,10** A+ | 1,39 (0,35 - 2,06) | 695 | 6,40 | 2,83 | 3,97 | | 6,80 (1,40 - 7,30) | 3,80 | **3,80** A | 1,79 (0,28 - 2,12) | 895 | 8,10 |
| 25 + 42 | 1,94 | 3,26 | | 5,20 (1,90 - 6,40) | 3,82 | **6,10** A+ | 1,36 (0,35 - 2,10) | 680 | 6,20 | 2,54 | 4,26 | | 6,80 (1,40 - 7,30) | 3,82 | **3,80** A | 1,78 (0,28 - 2,08) | 890 | 8,10 |
| 25 + 50 | 1,73 | 3,47 | | 5,20 (1,90 - 6,40) | 4,30 | **6,50** A+ | 1,21 (0,34 - 1,82) | 605 | 5,60 | 2,27 | 4,53 | | 6,80 (1,40 - 7,50) | 4,15 | **4,00** A++ | 1,64 (0,24 - 2,00) | 820 | 7,50 |
| 35 + 35 | 2,60 | 2,60 | | 5,20 (1,90 - 6,40) | 3,94 | **6,10** A+ | 1,32 (0,35 - 2,06) | 660 | 6,00 | 3,40 | 3,40 | | 6,80 (1,40 - 7,50) | 3,84 | **3,80** A | 1,77 (0,27 - 2,14) | 885 | 8,00 |
| 35 + 42 | 2,36 | 2,84 | | 5,20 (1,90 - 6,40) | 3,94 | **6,10** A+ | 1,32 (0,35 - 2,06) | 660 | 6,00 | 3,09 | 3,71 | | 6,80 (1,40 - 7,50) | 3,84 | **3,80** A | 1,77 (0,26 - 2,14) | 885 | 8,00 |
| 35 + 50 | 2,14 | 3,06 | | 5,20 (1,90 - 6,40) | 4,44 | **6,50** A+ | 1,17 (0,36 - 1,73) | 585 | 5,40 | 2,80 | 4,00 | | 6,80 (1,40 - 7,50) | 4,20 | **4,00** A++ | 1,62 (0,24 - 1,97) | 810 | 7,40 |
| 42 + 42 | 2,60 | 2,60 | | 5,20 (1,90 - 6,40) | 3,94 | **6,10** A+ | 1,32 (0,35 - 2,02) | 660 | 6,00 | 3,40 | 3,40 | | 6,80 (1,40 - 7,50) | 3,93 | **3,80** A | 1,73 (0,26 - 2,13) | 865 | 7,90 |
| 42 + 50 | 2,37 | 2,83 | | 5,20 (1,90 - 6,40) | 4,44 | **6,50** A+ | 1,17 (0,36 - 1,73) | 585 | 5,40 | 3,10 | 3,70 | | 6,80 (1,40 - 7,50) | 4,22 | **4,00** A++ | 1,61 (0,24 - 1,97) | 805 | 7,40 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,80 - 6,60) | 4,75 | **7,60** A+ | 1,01 (0,36 - 1,79) | 505 | 4,70 | 2,26 | 2,26 | 2,26 | 6,78 (1,50 - 7,50) | 4,24 | **4,20** A++ | 1,60 (0,29 - 1,95) | 800 | 7,30 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,80 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,36 - 1,80) | 575 | 5,30 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 7,50) | 4,28 | **4,20** A++ | 1,59 (0,32 - 1,94) | 795 | 7,30 |
| 16 + 16 + 25 | 1,46 | 1,46 | 2,28 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,80) | 575 | 5,30 | 1,91 | 1,91 | 2,98 | 6,80 (1,60 - 7,50) | 4,28 | **4,20** A++ | 1,59 (0,32 - 1,94) | 795 | 7,30 |
| 16 + 16 + 35 | 1,24 | 1,24 | 2,72 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 1,62 | 1,62 | 3,56 | 6,80 (1,60 - 7,50) | 4,33 | **4,20** A++ | 1,57 (0,34 - 1,92) | 785 | 7,20 |
| 16 + 16 + 42 | 1,12 | 1,12 | 2,96 | 5,20 (1,80 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,71) | 575 | 5,30 | 1,47 | 1,47 | 3,86 | 6,80 (1,60 - 7,50) | 4,33 | **4,20** A++ | 1,57 (0,31 - 1,91) | 785 | 7,20 |
| 16 + 16 + 50 | 1,01 | 1,01 | 3,18 | 5,20 (1,80 - 6,60) | 4,86 | **7,60** A+ | 1,07 (0,42 - 1,59) | 535 | 4,90 | 1,33 | 1,33 | 4,14 | 6,80 (1,60 - 7,50) | 4,66 | **4,20** A++ | 1,46 (0,33 - 1,79) | 730 | 6,70 |
| 16 + 20 + 20 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 7,50) | 4,30 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 16 + 20 + 25 | 1,36 | 1,70 | 2,14 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 1,78 | 2,23 | 2,79 | 6,80 (1,60 - 7,50) | 4,30 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 16 + 20 + 35 | 1,17 | 1,46 | 2,57 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,71) | 575 | 5,30 | 1,53 | 1,92 | 3,35 | 6,80 (1,60 - 7,50) | 4,33 | **4,20** A++ | 1,57 (0,34 - 1,91) | 785 | 7,20 |
| 16 + 20 + 42 | 1,07 | 1,33 | 2,80 | 5,20 (1,80 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,71) | 575 | 5,30 | 1,39 | 1,74 | 3,67 | 6,80 (1,60 - 7,50) | 4,36 | **4,20** A++ | 1,56 (0,31 - 1,90) | 780 | 7,10 |
| 16 + 20 + 50 | 0,97 | 1,21 | 3,02 | 5,20 (1,80 - 6,60) | 4,86 | **7,60** A+ | 1,07 (0,42 - 1,59) | 535 | 4,90 | 1,27 | 1,58 | 3,95 | 6,80 (1,60 - 7,50) | 4,69 | **4,20** A++ | 1,45 (0,34 - 1,78) | 725 | 6,60 |
| 16 + 25 + 25 | 1,26 | 1,97 | 1,97 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 1,64 | 2,58 | 2,58 | 6,80 (1,60 - 7,50) | 4,30 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 16 + 25 + 35 | 1,09 | 1,71 | 2,40 | 5,20 (1,80 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,71) | 575 | 5,30 | 1,43 | 2,24 | 3,13 | 6,80 (1,60 - 7,50) | 4,33 | **4,20** A++ | 1,57 (0,34 - 1,91) | 785 | 7,20 |
| 16 + 25 + 42 | 1,00 | 1,57 | 2,63 | 5,20 (1,80 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,71) | 575 | 5,30 | 1,31 | 2,05 | 3,44 | 6,80 (1,60 - 7,50) | 4,36 | **4,20** A++ | 1,56 (0,31 - 1,90) | 780 | 7,10 |
| 16 + 25 + 50 | 0,91 | 1,43 | 2,86 | 5,20 (1,80 - 6,60) | 4,86 | **7,60** A+ | 1,07 (0,42 - 1,59) | 535 | 4,90 | 1,19 | 1,87 | 3,74 | 6,80 (1,60 - 7,50) | 4,69 | **4,20** A++ | 1,45 (0,34 - 1,78) | 725 | 6,60 |
| 16 + 35 + 35 | 0,96 | 2,12 | 2,12 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,26 | 2,77 | 2,77 | 6,80 (1,60 - 7,50) | 4,39 | **4,20** A++ | 1,55 (0,32 - 1,89) | 775 | 7,10 |
| 16 + 35 + 42 | 0,89 | 1,96 | 2,35 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,67) | 555 | 5,10 | 1,17 | 2,56 | 3,07 | 6,80 (1,60 - 7,50) | 4,42 | **4,20** A++ | 1,54 (0,32 - 1,88) | 770 | 7,00 |
| 20 + 20 + 20 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 6,60) | 4,51 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 7,50) | 4,29 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 20 + 20 + 25 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 7,50) | 4,30 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 20 + 20 + 35 | 1,39 | 1,39 | 2,42 | 5,20 (1,90 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,81 | 1,81 | 3,18 | 6,80 (1,60 - 7,50) | 4,36 | **4,20** A++ | 1,56 (0,34 - 1,90) | 780 | 7,10 |
| 20 + 20 + 42 | 1,27 | 1,27 | 2,66 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,66 | 1,66 | 3,48 | 6,80 (1,60 - 7,50) | 4,39 | **4,20** A++ | 1,55 (0,32 - 1,90) | 775 | 7,10 |
| 20 + 20 + 50 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 6,60) | 4,86 | **7,60** A+ | 1,07 (0,42 - 1,59) | 535 | 4,90 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 7,50) | 4,69 | **4,20** A++ | 1,45 (0,34 - 1,77) | 725 | 6,60 |
| 20 + 25 + 25 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 6,60) | 4,52 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 7,50) | 4,30 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 20 + 25 + 35 | 1,29 | 1,63 | 2,28 | 5,20 (1,90 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,69 | 2,13 | 2,98 | 6,80 (1,60 - 7,50) | 4,36 | **4,20** A++ | 1,56 (0,34 - 1,90) | 780 | 7,10 |
| 20 + 25 + 42 | 1,20 | 1,49 | 2,51 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,56 | 1,95 | 3,29 | 6,80 (1,60 - 7,50) | 4,39 | **4,20** A++ | 1,55 (0,32 - 1,90) | 775 | 7,10 |
| 20 + 25 + 50 | 1,09 | 1,37 | 2,74 | 5,20 (1,80 - 6,60) | 4,86 | **7,60** A+ | 1,07 (0,42 - 1,59) | 535 | 4,90 | 1,43 | 1,79 | 3,58 | 6,80 (1,60 - 7,50) | 4,69 | **4,20** A++ | 1,45 (0,34 - 1,77) | 725 | 6,60 |
| 20 + 35 + 35 | 1,16 | 2,02 | 2,02 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,67) | 555 | 5,10 | 1,52 | 2,64 | 2,64 | 6,80 (1,60 - 7,50) | 4,42 | **4,20** A++ | 1,54 (0,32 - 1,88) | 770 | 7,00 |
| 25 + 25 + 25 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 6,60) | 4,51 | **7,60** A+ | 1,15 (0,39 - 1,75) | 575 | 5,30 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 7,50) | 4,29 | **4,20** A++ | 1,58 (0,31 - 1,93) | 790 | 7,20 |
| 25 + 25 + 35 | 1,53 | 1,53 | 2,14 | 5,20 (1,90 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 2,00 | 2,00 | 2,80 | 6,80 (1,60 - 7,50) | 4,36 | **4,20** A++ | 1,56 (0,31 - 1,90) | 780 | 7,10 |
| 25 + 25 + 42 | 1,41 | 1,41 | 2,38 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,71) | 555 | 5,10 | 1,85 | 1,85 | 3,10 | 6,80 (1,60 - 7,50) | 4,39 | **4,20** A++ | 1,55 (0,68 - 1,90) | 775 | 7,10 |
| 25 + 35 + 35 | 1,36 | 1,92 | 1,92 | 5,20 (1,80 - 6,60) | 4,68 | **7,60** A+ | 1,11 (0,39 - 1,67) | 555 | 5,10 | 1,78 | 2,51 | 2,51 | 6,80 (1,60 - 7,50) | 4,42 | **4,20** A++ | 1,54 (0,68 - 1,88) | 770 | 7,00 |

1) Energy Label Scale from A+++ to D.

# Free Multi R410A combinations table

## Free Multi 2x1 CU-2E12SBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 5,70kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,05 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,75) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,75 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,55 |
| 35 | 3,20 | | 3,20 (1,10 - 4,00) | 3,48 | | 0,92 (0,22 - 1,22) | 460 | 4,30 | 4,40 | | 4,40 (0,70 - 5,60) | 3,61 | | 1,22 (0,17 - 1,68) | 610 | 5,40 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 4,27 | | 0,75 (0,25 - 1,00) | 375 | 3,50 | 2,20 | 2,20 | 4,40 (1,10 - 5,60) | 4,63 | | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,50 | 6,50 A++ | 0,80 (0,25 - 1,10) | 400 | 3,75 | 1,95 | 2,45 | 4,40 (1,10 - 5,60) | 4,63 | 4,00 A+ | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 16 + 25 | 1,40 | 2,20 | 3,60 (1,50 - 4,50) | 4,50 | | 0,80 (0,25 - 1,10) | 400 | 3,75 | 1,70 | 2,70 | 4,40 (1,10 - 5,60) | 4,63 | | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 16 + 35 | 1,20 | 2,40 | 3,60 (1,50 - 4,50) | 4,50 | | 0,80 (0,25 - 1,10) | 400 | 3,75 | 1,45 | 2,95 | 4,40 (1,10 - 5,60) | 4,63 | | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 20 + 20 | 1,80 | 1,80 | 3,60 (1,50 - 4,50) | 4,50 | | 0,80 (0,25 - 1,10) | 400 | 3,75 | 2,20 | 2,20 | 4,40 (1,10 - 5,60) | 4,63 | | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 20 + 25 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,50 | | 0,80 (0,25 - 1,10) | 400 | 3,75 | 1,95 | 2,45 | 4,40 (1,10 - 5,60) | 4,63 | | 0,95 (0,21 - 1,27) | 475 | 4,20 |
| 20 + 35 | 1,40 | 2,20 | 3,60 (1,50 - 4,50) | 4,68 | | 0,77 (0,25 - 1,05) | 385 | 3,60 | 1,70 | 2,70 | 4,40 (1,10 - 5,60) | 4,78 | | 0,92 (0,21 - 1,22) | 460 | 4,10 |
| 25 + 25 | 1,80 | 1,80 | 3,60 (1,50 - 4,50) | 4,68 | | 0,77 (0,25 - 1,05) | 385 | 3,60 | 2,20 | 2,20 | 4,40 (1,10 - 5,60) | 4,78 | | 0,92 (0,21 - 1,22) | 460 | 4,10 |
| 25 + 35 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 4,68 | | 0,77 (0,25 - 1,05) | 385 | 3,60 | 1,95 | 2,45 | 4,40 (1,10 - 5,60) | 4,78 | | 0,92 (0,21 - 1,22) | 460 | 4,10 |

## Free Multi 2x1 CU-2E15SBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 5,70kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,05 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,75) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,75 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,55 |
| 35 | 3,20 | | 3,20 (1,10 - 4,00) | 3,48 | | 0,92 (0,22 - 1,22) | 460 | 4,30 | 4,50 | | 4,50 (0,70 - 6,20) | 3,60 | | 1,25 (0,17 - 1,81) | 625 | 5,55 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 3,76 | | 0,85 (0,25 - 1,10) | 425 | 4,00 | 2,60 | 2,60 | 5,20 (1,10 - 7,00) | 4,60 | | 1,13 (0,21 - 1,71) | 565 | 5,00 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 3,71 | | 0,97 (0,25 - 1,28) | 485 | 4,55 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 5,10) | 3,63 | | 1,13 (0,25 - 1,48) | 565 | 5,30 | 2,11 | 3,29 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 16 + 35 | 1,50 | 3,00 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 1,80 | 3,60 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 5,00) | 3,67 | | 1,09 (0,25 - 1,46) | 545 | 5,10 | 2,70 | 2,70 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 20 + 25 | 2,00 | 2,50 | 4,50 (1,50 - 5,20) | 3,66 | 6,50 A++ | 1,23 (0,25 - 1,52) | 615 | 5,75 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,62 | 4,00 A+ | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 20 + 35 | 1,75 | 2,75 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 2,10 | 3,30 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 25 + 25 | 2,25 | 2,25 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 2,70 | 2,70 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 25 + 35 | 2,00 | 2,50 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |

## Free Multi 2x1 CU-2E18SBE. Minimum capacity connected: 3,20kW. Maximum capacity connected: 7,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | 1,60 (1,10 - 2,30) | 3,90 | | 0,41 (0,22 - 0,60) | 205 | 1,95 | 2,60 | | 2,60 (0,70 - 3,80) | 3,77 | | 0,69 (0,17 - 1,11) | 345 | 3,05 |
| 20 | 2,00 | | 2,00 (1,10 - 2,90) | 3,85 | | 0,52 (0,22 - 0,75) | 260 | 2,45 | 3,20 | | 3,20 (0,70 - 4,80) | 3,76 | | 0,85 (0,17 - 1,41) | 425 | 3,75 |
| 25 | 2,50 | | 2,50 (1,10 - 3,50) | 3,73 | | 0,67 (0,22 - 1,00) | 335 | 3,15 | 3,60 | | 3,60 (0,70 - 5,50) | 3,50 | | 1,03 (0,17 - 1,70) | 515 | 4,55 |
| 35 | 3,20 | | 3,20 (1,10 - 4,00) | 3,48 | | 0,92 (0,22 - 1,22) | 460 | 4,30 | 4,50 | | 4,50 (0,70 - 6,20) | 3,60 | | 1,25 (0,17 - 1,81) | 625 | 5,55 |
| 42 | 4,00 | | 4,00 (1,10 - 4,20) | 3,13 | | 1,28 (0,22 - 1,39) | 640 | 6,00 | 5,00 | | 5,00 (1,10 - 6,40) | 3,23 | | 1,55 (0,21 - 2,18) | 775 | 6,90 |
| 50 | 5,00 | | 5,00 (1,20 - 5,10) | 2,96 | | 1,69 (0,23 - 1,79) | 845 | 7,80 | 5,30 | | 5,30 (1,10 - 6,80) | 3,23 | | 1,64 (0,21 - 2,29) | 820 | 7,30 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | 3,20 (1,50 - 4,00) | 3,76 | | 0,85 (0,25 - 1,10) | 425 | 4,00 | 2,60 | 2,60 | 5,20 (1,10 - 7,00) | 4,60 | | 1,13 (0,21 - 1,71) | 565 | 5,00 |
| 16 + 20 | 1,60 | 2,00 | 3,60 (1,50 - 4,50) | 3,71 | | 0,97 (0,25 - 1,28) | 485 | 4,55 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 16 + 25 | 1,60 | 2,50 | 4,10 (1,50 - 5,10) | 3,63 | | 1,13 (0,25 - 1,48) | 565 | 5,30 | 2,11 | 3,29 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 16 + 35 | 1,50 | 3,00 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 1,80 | 3,60 | 5,40 (1,10 - 7,00) | 4,58 | | 1,18 (0,21 - 1,69) | 590 | 5,25 |
| 16 + 42 | 1,50 | 3,70 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 1,60 | 4,00 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 16 + 50 | 1,25 | 3,95 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 1,35 | 4,25 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 5,00) | 3,67 | | 1,09 (0,25 - 1,46) | 545 | 5,10 | 2,70 | 2,70 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 20 + 25 | 2,00 | 2,50 | 4,50 (1,50 - 5,20) | 3,66 | | 1,23 (0,25 - 1,52) | 615 | 5,75 | 2,40 | 3,00 | 5,40 (1,10 - 7,00) | 4,62 | | 1,17 (0,21 - 1,67) | 585 | 5,20 |
| 20 + 35 | 2,00 | 3,20 | 5,20 (1,50 - 5,40) | 3,42 | 6,50 A++ | 1,52 (0,25 - 1,58) | 760 | 7,10 | 2,15 | 3,45 | 5,60 (1,10 - 7,20) | 4,63 | 4,00 A+ | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 20 + 42 | 1,75 | 3,45 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 1,85 | 3,75 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 20 + 50 | 1,50 | 3,70 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 1,60 | 4,00 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 25 + 25 | 2,50 | 2,50 | 5,00 (1,50 - 5,20) | 3,47 | | 1,44 (0,25 - 1,52) | 720 | 6,70 | 2,80 | 2,80 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 25 + 35 | 2,30 | 2,90 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 2,45 | 3,15 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 25 + 42 | 2,00 | 3,20 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 2,15 | 3,45 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 25 + 50 | 1,75 | 3,45 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 1,85 | 3,75 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 35 + 35 | 2,60 | 2,60 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 2,80 | 2,80 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |
| 35 + 42 | 2,30 | 2,90 | 5,20 (1,50 - 5,40) | 3,42 | | 1,52 (0,25 - 1,58) | 760 | 7,10 | 2,50 | 3,10 | 5,60 (1,10 - 7,20) | 4,63 | | 1,21 (0,21 - 1,70) | 605 | 5,35 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 3x1 CU-3E18PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 9,00kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 3,40 | | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | 2,60 (1,20 - 3,20) | 3,88 | | 0,67 (0,30 - 1,03) | 335 | 3,20 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 3,51 | | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | 3,20 (1,20 - 4,10) | 3,95 | | 0,81 (0,30 - 1,30) | 405 | 4,00 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,57 | | 0,70 (0,34 - 0,88) | 350 | 3,30 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,56 | | 1,01 (0,30 - 1,30) | 505 | 4,80 |
| 35 | 3,20 | | | 3,20 (1,80 - 3,80) | 3,68 | | 0,87 (0,34 - 1,43) | 435 | 4,00 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,46 | | 1,30 (0,30 - 2,17) | 650 | 6,20 |
| 42 | 4,00 | | | 4,00 (1,80 - 4,30) | 3,05 | | 1,31 (0,34 - 2,06) | 655 | 5,90 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,13 | | 1,79 (0,30 - 3,00) | 895 | 7,90 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 2,90 | | 1,73 (0,34 - 2,31) | 863 | 7,60 | 6,80 | | | 6,80 (1,20 - 6,90) | 2,99 | | 2,28 (0,30 - 2,70) | 1138 | 10,00 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,80 - 6,20) | 4,05 | | 0,79 (0,33 - 2,23) | 395 | 3,60 | 2,60 | 2,60 | | 5,20 (1,40 - 7,00) | 3,77 | | 1,38 (0,34 - 2,07) | 690 | 6,40 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,80 - 6,20) | 3,83 | | 0,94 (0,33 - 2,19) | 470 | 4,20 | 2,49 | 3,11 | | 5,60 (1,40 - 7,00) | 3,73 | | 1,50 (0,33 - 2,04) | 750 | 6,90 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,80 - 6,20) | 3,73 | | 1,10 (0,33 - 2,19) | 550 | 4,90 | 2,42 | 3,78 | | 6,20 (1,40 - 7,00) | 3,69 | | 1,68 (0,33 - 2,04) | 840 | 7,80 |
| 16 + 35 | 1,60 | 3,20 | | 4,80 (1,80 - 6,30) | 3,36 | | 1,43 (0,33 - 2,20) | 715 | 6,30 | 2,13 | 4,27 | | 6,40 (1,40 - 7,30) | 3,76 | | 1,70 (0,31 - 2,13) | 850 | 7,80 |
| 16 + 42 | 1,49 | 3,71 | | 5,20 (1,90 - 6,40) | 3,21 | | 1,62 (0,35 - 2,24) | 810 | 7,10 | 1,94 | 4,86 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 16 + 50 | 1,26 | 3,94 | | 5,20 (1,90 - 6,80) | 3,41 | | 1,53 (0,34 - 2,29) | 763 | 6,70 | 1,65 | 5,15 | | 6,80 (1,40 - 8,00) | 3,81 | | 1,79 (0,24 - 2,34) | 893 | 8,20 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,80 - 6,20) | 3,74 | | 1,07 (0,33 - 2,15) | 535 | 4,70 | 2,90 | 2,90 | | 5,80 (1,40 - 7,00) | 3,82 | | 1,52 (0,32 - 2,03) | 760 | 7,00 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,80 - 6,20) | 3,52 | | 1,28 (0,33 - 2,15) | 640 | 5,60 | 2,84 | 3,56 | | 6,40 (1,40 - 7,00) | 3,68 | | 1,74 (0,32 - 2,03) | 870 | 8,00 |
| 20 + 35 | 2,00 | 3,20 | | 5,20 (1,80 - 6,30) | 3,21 | 6,40 A+++ | 1,62 (0,33 - 2,16) | 810 | 7,10 | 2,62 | 4,18 | | 6,80 (1,40 - 7,30) | 3,74 | 3,80 A | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 20 + 42 | 1,73 | 3,47 | | 5,20 (1,90 - 6,40) | 3,29 | | 1,58 (0,35 - 2,20) | 790 | 6,90 | 2,27 | 4,53 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,28 - 2,08) | 910 | 8,30 |
| 20 + 50 | 1,49 | 3,71 | | 5,20 (1,90 - 6,80) | 3,41 | | 1,53 (0,34 - 2,29) | 763 | 6,70 | 1,94 | 4,86 | | 6,80 (1,40 - 8,00) | 3,83 | | 1,78 (0,24 - 2,33) | 888 | 8,10 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,80 - 6,20) | 3,25 | | 1,54 (0,33 - 2,15) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,00) | 3,64 | | 1,87 (0,32 - 2,03) | 935 | 8,50 |
| 25 + 35 | 2,28 | 2,92 | | 5,20 (1,90 - 6,30) | 3,21 | | 1,62 (0,35 - 2,16) | 810 | 7,10 | 2,98 | 3,82 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 25 + 42 | 2,00 | 3,20 | | 5,20 (1,90 - 6,40) | 3,29 | | 1,58 (0,35 - 2,20) | 790 | 6,90 | 2,62 | 4,18 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,28 - 2,08) | 910 | 8,30 |
| 25 + 50 | 1,73 | 3,47 | | 5,20 (1,90 - 6,80) | 3,41 | | 1,53 (0,34 - 2,29) | 763 | 6,70 | 2,27 | 4,53 | | 6,80 (1,40 - 8,00) | 3,83 | | 1,78 (0,24 - 2,33) | 888 | 8,10 |
| 35 + 35 | 2,60 | 2,60 | | 5,20 (1,90 - 6,40) | 3,38 | | 1,54 (0,35 - 2,16) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,50) | 3,76 | | 1,81 (0,27 - 2,14) | 905 | 8,30 |
| 35 + 42 | 2,31 | 2,89 | | 5,20 (1,90 - 6,50) | 3,38 | | 1,54 (0,35 - 2,21) | 770 | 6,80 | 3,02 | 3,78 | | 6,80 (1,40 - 7,50) | 3,78 | | 1,80 (0,26 - 2,14) | 900 | 8,20 |
| 35 + 50 | 2,03 | 3,17 | | 5,20 (1,90 - 6,90) | 3,50 | | 1,49 (0,36 - 2,29) | 743 | 6,50 | 2,65 | 4,15 | | 6,80 (1,40 - 8,00) | 3,87 | | 1,76 (0,24 - 2,27) | 878 | 8,00 |
| 42 + 42 | 2,60 | 2,60 | | 5,20 (1,90 - 6,50) | 3,38 | | 1,54 (0,35 - 2,21) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,60) | 3,86 | | 1,76 (0,26 - 2,17) | 880 | 8,00 |
| 42 + 50 | 2,31 | 2,89 | | 5,20 (1,90 - 6,90) | 3,50 | | 1,49 (0,36 - 2,29) | 743 | 6,50 | 3,02 | 3,78 | | 6,80 (1,40 - 8,00) | 3,90 | | 1,75 (0,24 - 2,27) | 873 | 8,10 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,80 - 7,20) | 3,81 | | 1,26 (0,36 - 2,34) | 630 | 5,50 | 2,26 | 2,26 | 2,26 | 6,78 (1,50 - 8,10) | 4,06 | | 1,67 (0,29 - 2,25) | 835 | 7,70 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,80 - 7,30) | 3,69 | 7,00 A+++ | 1,41 (0,36 - 2,39) | 705 | 6,20 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,10 | 4,00 A+ | 1,66 (0,32 - 2,32) | 830 | 7,70 |
| 16 + 16 + 25 | 1,46 | 1,46 | 2,28 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,91 | 1,91 | 2,98 | 6,80 (1,60 - 8,30) | 4,10 | | 1,66 (0,32 - 2,32) | 830 | 7,70 |
| 16 + 16 + 35 | 1,30 | 1,30 | 2,60 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 1,70 | 1,70 | 3,40 | 6,80 (1,60 - 8,30) | 4,15 | | 1,64 (0,31 - 2,25) | 820 | 7,60 |
| 16 + 16 + 42 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 16 + 50 | 1,01 | 1,01 | 3,18 | 5,20 (1,80 - 7,30) | 3,62 | | 1,44 (0,42 - 2,23) | 718 | 6,30 | 1,33 | 1,33 | 4,14 | 6,80 (1,60 - 8,30) | 4,16 | | 1,64 (0,36 - 2,22) | 818 | 7,50 |
| 16 + 20 + 20 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 20 + 25 | 1,36 | 1,70 | 2,14 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,78 | 2,23 | 2,79 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 20 + 35 | 1,22 | 1,53 | 2,45 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,21) | 705 | 6,20 | 1,60 | 2,00 | 3,20 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 20 + 42 | 1,09 | 1,37 | 2,74 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,43 | 1,79 | 3,58 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 16 + 20 + 50 | 0,97 | 1,21 | 3,02 | 5,20 (1,80 - 7,30) | 3,62 | | 1,44 (0,42 - 2,18) | 718 | 6,30 | 1,27 | 1,58 | 3,95 | 6,80 (1,60 - 8,30) | 4,18 | | 1,63 (0,36 - 2,22) | 813 | 7,50 |
| 16 + 25 + 25 | 1,26 | 1,97 | 1,97 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,64 | 2,58 | 2,58 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 25 + 35 | 1,14 | 1,78 | 2,28 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,49 | 2,33 | 2,98 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 25 + 42 | 1,03 | 1,60 | 2,57 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,34 | 2,10 | 3,36 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 16 + 35 + 35 | 1,04 | 2,08 | 2,08 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,36 | 2,72 | 2,72 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,22) | 805 | 7,40 |
| 16 + 35 + 42 | 0,95 | 1,89 | 2,36 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,24 | 2,47 | 3,09 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |
| 20 + 20 + 20 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 3,68 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,11 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 20 + 25 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 20 + 35 | 1,44 | 1,44 | 2,32 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,89 | 1,89 | 3,02 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 20 + 20 + 42 | 1,30 | 1,30 | 2,60 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,70 | 1,70 | 3,40 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 20 + 20 + 50 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 7,30) | 3,62 | | 1,44 (0,42 - 2,18) | 718 | 6,30 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 8,30) | 4,18 | | 1,63 (0,36 - 2,21) | 813 | 7,50 |
| 20 + 25 + 25 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 25 + 35 | 1,35 | 1,69 | 2,16 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,76 | 2,21 | 2,83 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 20 + 25 + 42 | 1,22 | 1,53 | 2,45 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,60 | 2,00 | 3,20 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 20 + 35 + 35 | 1,24 | 1,98 | 1,98 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,62 | 2,59 | 2,59 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |
| 25 + 25 + 25 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 3,68 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,11 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 25 + 25 + 35 | 1,59 | 1,59 | 2,02 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 2,07 | 2,07 | 2,66 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 25 + 25 + 42 | 1,44 | 1,44 | 2,32 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,89 | 1,89 | 3,02 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 25 + 35 + 35 | 1,46 | 1,87 | 1,87 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,92 | 2,44 | 2,44 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

## Free Multi 3x1 CU-3E23SBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,00kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 3,40 | | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | 2,60 (1,20 - 3,20) | 3,88 | | 0,67 (0,30 - 0,96) | 335 | 3,20 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 3,51 | | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | 3,20 (1,20 - 4,10) | 3,95 | | 0,81 (0,30 - 1,30) | 405 | 4,00 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,57 | | 0,70 (0,34 - 0,88) | 350 | 3,40 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,56 | | 1,01 (0,30 - 1,30) | 505 | 5,00 |
| 35 | 3,20 | | | 3,20 (1,80 - 3,80) | 3,68 | | 0,87 (0,34 - 1,43) | 435 | 4,20 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,46 | | 1,30 (0,30 - 2,17) | 650 | 6,30 |
| 42 | 4,00 | | | 4,00 (1,80 - 4,30) | 3,05 | | 1,31 (0,34 - 2,06) | 655 | 6,10 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,13 | | 1,79 (0,30 - 3,00) | 895 | 8,30 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 2,90 | | 1,73 (0,34 - 2,31) | 863 | 8,00 | 6,80 | | | 6,80 (1,20 - 6,90) | 2,99 | | 2,28 (0,30 - 2,70) | 1138 | 10,50 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,90 - 6,40) | 4,16 | | 0,77 (0,27 - 2,15) | 385 | 3,60 | 2,60 | 2,60 | | 5,20 (2,70 - 9,80) | 3,61 | | 1,44 (0,66 - 3,06) | 720 | 6,70 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,90 - 6,40) | 3,96 | | 0,91 (0,27 - 2,11) | 455 | 4,10 | 2,58 | 3,22 | | 5,80 (2,70 - 9,80) | 3,58 | | 1,62 (0,65 - 3,06) | 810 | 7,50 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,90 - 6,40) | 3,83 | | 1,07 (0,27 - 2,11) | 535 | 4,80 | 2,38 | 3,72 | | 6,10 (2,70 - 9,80) | 3,55 | | 1,72 (0,65 - 3,06) | 860 | 8,00 |
| 16 + 35 | 1,60 | 3,20 | | 4,80 (1,90 - 6,90) | 3,48 | | 1,38 (0,27 - 2,50) | 690 | 6,10 | 2,13 | 4,27 | | 6,40 (2,70 - 9,90) | 3,64 | | 1,76 (0,63 - 3,07) | 880 | 8,10 |
| 16 + 42 | 1,60 | 4,00 | | 5,60 (1,90 - 6,90) | 3,08 | | 1,82 (0,27 - 2,46) | 910 | 8,00 | 2,29 | 5,71 | | 8,00 (2,70 - 9,90) | 3,39 | | 2,36 (0,63 - 3,07) | 1180 | 10,90 |
| 16 + 50 | 1,60 | 5,00 | | 6,60 (2,00 - 7,50) | 2,89 | | 2,29 (0,28 - 2,65) | 1143 | 10,00 | 2,06 | 6,44 | | 8,50 (2,80 - 10,20) | 3,39 | | 2,51 (0,56 - 3,15) | 1253 | 11,60 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,90 - 6,40) | 3,85 | | 1,04 (0,27 - 2,08) | 520 | 4,70 | 2,90 | 2,90 | | 5,80 (2,70 - 9,80) | 3,67 | | 1,58 (0,64 - 3,07) | 790 | 7,40 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,90 - 6,40) | 3,63 | | 1,24 (0,27 - 2,08) | 620 | 5,50 | 2,71 | 3,39 | | 6,10 (2,70 - 9,80) | 3,57 | | 1,71 (0,64 - 3,07) | 855 | 8,00 |
| 20 + 35 | 2,00 | 3,20 | | 5,20 (1,90 - 6,90) | 3,29 | | 1,58 (0,27 - 2,46) | 790 | 7,00 | 2,69 | 4,31 | | 7,00 (2,70 - 9,90) | 3,50 | | 2,00 (0,63 - 3,07) | 1000 | 9,20 |
| 20 + 42 | 2,00 | 4,00 | | 6,00 (1,90 - 6,90) | 2,96 | | 2,03 (0,27 - 2,42) | 1015 | 8,90 | 2,73 | 5,47 | | 8,20 (2,70 - 9,90) | 3,37 | | 2,43 (0,62 - 3,07) | 1215 | 11,20 |
| 20 + 50 | 1,94 | 4,86 | | 6,80 (2,00 - 7,50) | 2,80 | | 2,43 (0,28 - 2,60) | 1213 | 10,60 | 2,43 | 6,07 | | 8,50 (2,80 - 10,20) | 3,39 | | 2,51 (0,56 - 3,14) | 1253 | 11,60 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,90 - 6,80) | 3,33 | | 1,50 (0,27 - 2,45) | 750 | 6,70 | 3,20 | 3,20 | | 6,40 (2,70 - 9,80) | 3,54 | | 1,81 (0,64 - 3,07) | 905 | 8,30 |
| 25 + 35 | 2,50 | 3,20 | | 5,70 (1,90 - 6,90) | 3,06 | | 1,86 (0,27 - 2,46) | 930 | 8,20 | 3,55 | 4,55 | | 8,10 (2,70 - 9,90) | 3,39 | | 2,39 (0,63 - 3,07) | 1195 | 11,00 |
| 25 + 42 | 2,50 | 4,00 | | 6,50 (1,90 - 6,90) | 2,65 | | 2,45 (0,27 - 2,46) | 1225 | 10,80 | 3,27 | 5,23 | | 8,50 (2,70 - 9,90) | 3,29 | | 2,58 (0,62 - 3,07) | 1290 | 11,90 |
| 25 + 50 | 2,27 | 4,53 | | 6,80 (1,90 - 7,50) | 2,80 | | 2,43 (0,26 - 2,60) | 1213 | 10,60 | 2,83 | 5,67 | | 8,50 (2,80 - 10,20) | 3,39 | | 2,51 (0,56 - 3,14) | 1253 | 11,60 |
| 35 + 35 | 3,20 | 3,20 | | 6,40 (1,90 - 7,00) | 2,77 | | 2,31 (0,27 - 2,42) | 1155 | 10,10 | 4,25 | 4,25 | | 8,50 (2,80 - 10,00) | 3,36 | | 2,53 (0,64 - 3,07) | 1265 | 11,70 |
| 35 + 42 | 3,02 | 3,78 | | 6,80 (1,90 - 7,10) | 2,57 | | 2,65 (0,27 - 2,66) | 1325 | 11,60 | 3,78 | 4,72 | | 8,50 (2,80 - 10,00) | 3,36 | | 2,53 (0,60 - 3,07) | 1265 | 11,70 |
| 35 + 50 | 2,65 | 4,15 | | 6,80 (2,00 - 7,60) | 2,91 | | 2,34 (0,28 - 2,61) | 1168 | 10,30 | 3,32 | 5,18 | | 8,50 (2,80 - 10,30) | 3,48 | | 2,45 (0,54 - 3,13) | 1223 | 11,30 |
| 42 + 42 | 3,40 | 3,40 | | 6,80 (1,90 - 7,10) | 2,57 | | 2,65 (0,26 - 2,66) | 1325 | 11,60 | 4,25 | 4,25 | | 8,50 (2,80 - 10,00) | 3,37 | | 2,52 (0,60 - 3,03) | 1260 | 11,60 |
| 42 + 50 | 3,02 | 3,78 | | 6,80 (2,00 - 7,60) | 2,91 | | 2,34 (0,28 - 2,56) | 1168 | 10,30 | 3,78 | 4,72 | | 8,50 (2,80 - 10,30) | 3,49 | | 2,44 (0,54 - 3,12) | 1218 | 11,20 |
| 50 + 50 | 3,40 | 3,40 | | 6,80 (2,10 - 8,10) | 3,08 | | 2,21 (0,32 - 2,72) | 1105 | 9,70 | 4,25 | 4,25 | | 8,50 (2,80 - 10,50) | 3,54 | | 2,40 (0,51 - 3,13) | 1200 | 11,10 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,90 - 8,00) | 3,90 | | 1,23 (0,27 - 2,71) | 615 | 5,50 | 2,60 | 2,60 | 2,60 | 7,80 (3,30 - 10,40) | 3,70 | | 2,11 (0,64 - 3,07) | 1055 | 9,70 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 8,00) | 3,80 | | 1,37 (0,27 - 2,67) | 685 | 6,10 | 2,58 | 2,58 | 3,24 | 8,40 (3,30 - 10,40) | 3,61 | | 2,33 (0,64 - 3,06) | 1165 | 10,70 |
| 16 + 16 + 25 | 1,60 | 1,60 | 2,50 | 5,70 (1,90 - 8,00) | 3,56 | | 1,60 (0,27 - 2,67) | 800 | 7,10 | 2,39 | 2,39 | 3,72 | 8,50 (3,30 - 10,40) | 3,59 | | 2,37 (0,64 - 3,06) | 1185 | 10,90 |
| 16 + 16 + 35 | 1,60 | 1,60 | 3,20 | 6,40 (1,90 - 8,00) | 3,39 | | 1,89 (0,27 - 2,58) | 945 | 8,30 | 2,13 | 2,13 | 4,24 | 8,50 (3,30 - 10,40) | 3,68 | | 2,31 (0,63 - 3,04) | 1155 | 10,70 |
| 16 + 16 + 42 | 1,51 | 1,51 | 3,78 | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,67) | 1060 | 9,30 | 1,89 | 1,89 | 4,72 | 8,50 (3,30 - 10,50) | 3,70 | | 2,30 (0,62 - 3,07) | 1150 | 10,60 |
| 16 + 16 + 50 | 1,33 | 1,33 | 4,14 | 6,80 (2,00 - 8,50) | 3,26 | | 2,09 (0,32 - 2,74) | 1043 | 9,20 | 1,66 | 1,66 | 5,18 | 8,50 (3,20 - 10,60) | 3,74 | | 2,28 (0,60 - 3,04) | 1138 | 10,50 |
| 16 + 20 + 20 | 1,60 | 2,00 | 2,00 | 5,60 (1,90 - 8,00) | 3,68 | | 1,52 (0,27 - 2,67) | 760 | 6,70 | 2,42 | 3,04 | 3,04 | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16 + 20 + 25 | 1,60 | 2,00 | 2,50 | 6,10 (1,90 - 8,00) | 3,45 | | 1,77 (0,27 - 2,67) | 885 | 7,80 | 2,23 | 2,79 | 3,48 | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16 + 20 + 35 | 1,60 | 2,00 | 3,20 | 6,80 (1,90 - 8,00) | 3,21 | 7,00 A++ | 2,12 (0,27 - 2,58) | 1060 | 9,30 | 2,00 | 2,50 | 4,00 | 8,50 (3,30 - 10,40) | 3,70 | 4,00 A+ | 2,30 (0,62 - 2,99) | 1150 | 10,60 |
| 16 + 20 + 42 | 1,43 | 1,79 | 3,58 | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,63) | 1060 | 9,30 | 1,79 | 2,24 | 4,47 | 8,50 (3,30 - 10,50) | 3,71 | | 2,29 (0,62 - 3,02) | 1145 | 10,60 |
| 16 + 20 + 50 | 1,27 | 1,58 | 3,95 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,32 - 2,74) | 1018 | 8,90 | 1,58 | 1,98 | 4,94 | 8,50 (3,20 - 10,60) | 3,75 | | 2,27 (0,60 - 3,03) | 1133 | 10,40 |
| 16 + 25 + 25 | 1,60 | 2,50 | 2,50 | 6,60 (1,90 - 8,00) | 3,25 | | 2,03 (0,27 - 2,67) | 1015 | 8,90 | 2,06 | 3,22 | 3,22 | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16 + 25 + 35 | 1,49 | 2,33 | 2,98 | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,58) | 1060 | 9,30 | 1,86 | 2,91 | 3,73 | 8,50 (3,30 - 10,40) | 3,70 | | 2,30 (0,62 - 2,99) | 1150 | 10,60 |
| 16 + 25 + 42 | 1,34 | 2,10 | 3,36 | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,63) | 1060 | 9,30 | 1,68 | 2,62 | 4,20 | 8,50 (3,30 - 10,50) | 3,71 | | 2,29 (0,62 - 3,02) | 1145 | 10,60 |
| 16 + 25 + 50 | 1,19 | 1,87 | 3,74 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,32 - 2,74) | 1018 | 8,90 | 1,49 | 2,34 | 4,67 | 8,50 (3,20 - 10,60) | 3,75 | | 2,27 (0,60 - 3,03) | 1133 | 10,40 |
| 16 + 35 + 35 | 1,36 | 2,72 | 2,72 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,58) | 1035 | 9,10 | 1,70 | 3,40 | 3,40 | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,64 - 3,00) | 1140 | 10,50 |
| 16 + 35 + 42 | 1,24 | 2,47 | 3,09 | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,55 | 3,09 | 3,86 | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 16 + 35 + 50 | 1,11 | 2,22 | 3,47 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,38 | 2,78 | 4,34 | 8,50 (3,20 - 10,60) | 3,79 | | 2,25 (0,60 - 3,00) | 1123 | 10,40 |
| 16 + 42 + 42 | 1,14 | 2,83 | 2,83 | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,42 | 3,54 | 3,54 | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 16 + 42 + 50 | 1,02 | 2,57 | 3,21 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,28 | 3,21 | 4,01 | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 20 + 20 + 20 | 2,00 | 2,00 | 2,00 | 6,00 (1,90 - 8,00) | 3,49 | | 1,72 (0,27 - 2,62) | 860 | 7,60 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20 + 20 + 25 | 2,00 | 2,00 | 2,50 | 6,50 (1,90 - 8,00) | 3,28 | | 1,98 (0,27 - 2,62) | 990 | 8,70 | 2,62 | 2,62 | 3,26 | 8,50 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20 + 20 + 35 | 1,89 | 1,89 | 3,02 | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,36 | 2,36 | 3,78 | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 20 + 20 + 42 | 1,70 | 1,70 | 3,40 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,13 | 2,13 | 4,24 | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 20 + 20 + 50 | 1,51 | 1,51 | 3,78 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,89 | 1,89 | 4,72 | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 20 + 25 + 25 | 1,94 | 2,43 | 2,43 | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,62) | 1060 | 9,30 | 2,42 | 3,04 | 3,04 | 8,50 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20 + 25 + 35 | 1,76 | 2,21 | 2,83 | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,21 | 2,76 | 3,53 | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 20 + 25 + 42 | 1,60 | 2,00 | 3,20 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,00 | 2,50 | 4,00 | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 20 + 25 + 50 | 1,43 | 1,79 | 3,58 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,79 | 2,24 | 4,47 | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 20 + 35 + 35 | 1,62 | 2,59 | 2,59 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,54) | 1035 | 9,10 | 2,02 | 3,24 | 3,24 | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 20 + 35 + 42 | 1,47 | 2,37 | 2,96 | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,84 | 2,96 | 3,70 | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 20 + 35 + 50 | 1,33 | 2,13 | 3,34 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,66 | 2,67 | 4,17 | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 20 + 42 + 42 | 1,36 | 2,72 | 2,72 | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,58) | 1010 | 8,90 | 1,70 | 3,40 | 3,40 | 8,50 (3,30 - 10,50) | 3,78 | | 2,25 (0,63 - 2,98) | 1125 | 10,40 |
| 20 + 42 + 50 | 1,24 | 2,47 | 3,09 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,55 | 3,09 | 3,86 | 8,50 (3,20 - 10,60) | 3,82 | | 2,23 (0,62 - 2,98) | 1113 | 10,30 |
| 25 + 25 + 25 | 2,26 | 2,26 | 2,26 | 6,78 (1,90 - 8,00) | 3,20 | | 2,12 (0,27 - 2,62) | 1060 | 9,30 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 25 + 25 + 35 | 2,07 | 2,07 | 2,66 | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,59 | 2,59 | 3,32 | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 25 + 25 + 42 | 1,89 | 1,89 | 3,02 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,36 | 2,36 | 3,78 | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 25 + 25 + 50 | 1,70 | 1,70 | 3,40 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 2,13 | 2,13 | 4,24 | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 25 + 35 + 35 | 1,92 | 2,44 | 2,44 | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,54) | 1035 | 9,10 | 2,38 | 3,06 | 3,06 | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 25 + 35 + 42 | 1,75 | 2,24 | 2,81 | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,19 | 2,80 | 3,51 | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 25 + 35 + 50 | 1,59 | 2,03 | 3,18 | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,99 | 2,54 | 3,97 | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 25 + 42 + 42 | 1,62 | 2,59 | 2,59 | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,58) | 1010 | 8,90 | 2,02 | 3,24 | 3,24 | 8,50 (3,30 - 10,50) | 3,78 | | 2,25 (0,63 - 2,98) | 1125 | 10,40 |
| 35 + 35 + 35 | 2,26 | 2,26 | 2,26 | 6,78 (1,90 - 8,20) | 3,36 | | 2,02 (0,29 - 2,54) | 1010 | 8,90 | 2,83 | 2,83 | 2,83 | 8,49 (3,30 - 10,50) | 3,84 | | 2,21 (0,63 - 2,97) | 1105 | 10,20 |
| 35 + 35 + 42 | 2,09 | 2,09 | 2,62 | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,54) | 1010 | 8,90 | 2,62 | 2,62 | 3,26 | 8,50 (3,30 - 10,50) | 3,86 | | 2,20 (0,63 - 2,92) | 1100 | 10,10 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 4x1 CU-4E23PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,00kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | 1,60 (1,30 - 2,30) | 3,40 | | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | | 2,60 (1,20 - 3,20) | 3,88 | | 0,67 (0,30 - 1,03) | 335 | 3,20 |
| 20 | 2,00 | | | | 2,00 (1,80 - 2,90) | 3,51 | | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | | 3,20 (1,20 - 4,10) | 3,95 | | 0,81 (0,30 - 1,30) | 405 | 4,00 |
| 25 | 2,50 | | | | 2,50 (1,80 - 2,90) | 3,57 | | 0,70 (0,34 - 0,88) | 350 | 3,40 | 3,60 | | | | 3,60 (1,20 - 4,30) | 3,56 | | 1,01 (0,30 - 1,30) | 505 | 5,00 |
| 35 | 3,20 | | | | 3,20 (1,80 - 3,80) | 3,68 | | 0,87 (0,34 - 1,43) | 435 | 4,20 | 4,50 | | | | 4,50 (1,20 - 5,80) | 3,46 | | 1,30 (0,30 - 2,17) | 650 | 6,30 |
| 42 | 4,00 | | | | 4,00 (1,80 - 4,30) | 3,05 | | 1,31 (0,34 - 2,06) | 655 | 6,10 | 5,60 | | | | 5,60 (1,20 - 6,80) | 3,13 | | 1,79 (0,30 - 3,00) | 895 | 8,30 |
| 50 | 5,00 | | | | 5,00 (1,90 - 5,70) | 2,90 | | 1,73 (0,34 - 2,31) | 863 | 8,00 | 6,80 | | | | 6,80 (1,20 - 6,90) | 2,99 | | 2,28 (0,30 - 2,70) | 1138 | 10,50 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16 | 1,60 | 1,60 | | | 3,20 (1,90 - 6,40) | 4,16 | | 0,77 (0,27 - 2,15) | 385 | 3,60 | 2,60 | 2,60 | | | 5,20 (2,70 - 9,80) | 3,61 | | 1,44 (0,66 - 3,06) | 720 | 6,70 |
| 16+20 | 1,60 | 2,00 | | | 3,60 (1,90 - 6,40) | 3,96 | | 0,91 (0,27 - 2,11) | 455 | 4,10 | 2,58 | 3,22 | | | 5,80 (2,70 - 9,80) | 3,58 | | 1,62 (0,65 - 3,06) | 810 | 7,50 |
| 16+25 | 1,60 | 2,50 | | | 4,10 (1,90 - 6,40) | 3,83 | | 1,07 (0,27 - 2,11) | 535 | 4,80 | 2,38 | 3,72 | | | 6,10 (2,70 - 9,80) | 3,55 | | 1,72 (0,65 - 3,06) | 860 | 8,00 |
| 16+35 | 1,60 | 3,20 | | | 4,80 (1,90 - 6,90) | 3,48 | | 1,38 (0,27 - 2,50) | 690 | 6,10 | 2,13 | 4,27 | | | 6,40 (2,70 - 9,90) | 3,64 | | 1,76 (0,63 - 3,07) | 880 | 8,10 |
| 16+42 | 1,60 | 4,00 | | | 5,60 (1,90 - 6,90) | 3,08 | | 1,82 (0,27 - 2,46) | 910 | 8,00 | 2,29 | 5,71 | | | 8,00 (2,70 - 9,90) | 3,39 | | 2,36 (0,63 - 3,07) | 1180 | 10,90 |
| 16+50 | 1,60 | 5,00 | | | 6,60 (2,00 - 7,50) | 2,89 | | 2,29 (0,28 - 2,65) | 1143 | 10,00 | 2,06 | 6,44 | | | 8,50 (2,80 - 10,20) | 3,39 | | 2,51 (0,56 - 3,15) | 1253 | 11,60 |
| 20+20 | 2,00 | 2,00 | | | 4,00 (1,90 - 6,40) | 3,85 | | 1,04 (0,27 - 2,08) | 520 | 4,70 | 2,90 | 2,90 | | | 5,80 (2,70 - 9,80) | 3,67 | | 1,58 (0,64 - 3,07) | 790 | 7,40 |
| 20+25 | 2,00 | 2,50 | | | 4,50 (1,90 - 6,40) | 3,63 | | 1,24 (0,27 - 2,08) | 620 | 5,50 | 2,71 | 3,39 | | | 6,10 (2,70 - 9,80) | 3,57 | | 1,71 (0,64 - 3,07) | 855 | 8,00 |
| 20+35 | 2,00 | 3,20 | | | 5,20 (1,90 - 6,90) | 3,29 | | 1,58 (0,27 - 2,46) | 790 | 7,00 | 2,69 | 4,31 | | | 7,00 (2,70 - 9,90) | 3,50 | | 2,00 (0,63 - 3,07) | 1000 | 9,20 |
| 20+42 | 2,00 | 4,00 | | | 6,00 (1,90 - 6,90) | 2,96 | | 2,03 (0,27 - 2,42) | 1015 | 8,90 | 2,73 | 5,47 | | | 8,20 (2,70 - 9,90) | 3,37 | | 2,43 (0,62 - 3,07) | 1215 | 11,20 |
| 20+50 | 1,94 | 4,86 | | | 6,80 (2,00 - 7,50) | 2,80 | 5,80 A++ | 2,43 (0,28 - 2,60) | 1213 | 10,60 | 2,43 | 6,07 | | | 8,50 (2,80 - 10,20) | 3,39 | 3,80 A | 2,51 (0,56 - 3,14) | 1253 | 11,60 |
| 25+25 | 2,50 | 2,50 | | | 5,00 (1,90 - 6,80) | 3,33 | | 1,50 (0,27 - 2,45) | 750 | 6,70 | 3,20 | 3,20 | | | 6,40 (2,70 - 9,80) | 3,54 | | 1,81 (0,64 - 3,07) | 905 | 8,30 |
| 25+35 | 2,50 | 3,20 | | | 5,70 (1,90 - 6,90) | 3,06 | | 1,86 (0,27 - 2,46) | 930 | 8,20 | 3,55 | 4,55 | | | 8,10 (2,70 - 9,90) | 3,39 | | 2,39 (0,63 - 3,07) | 1195 | 11,00 |
| 25+42 | 2,50 | 4,00 | | | 6,50 (1,90 - 6,90) | 2,65 | | 2,45 (0,27 - 2,46) | 1225 | 10,80 | 3,27 | 5,23 | | | 8,50 (2,70 - 9,90) | 3,29 | | 2,58 (0,62 - 3,07) | 1290 | 11,90 |
| 25+50 | 2,27 | 4,53 | | | 6,80 (1,90 - 7,50) | 2,80 | | 2,43 (0,26 - 2,60) | 1213 | 10,60 | 2,83 | 5,67 | | | 8,50 (2,80 - 10,20) | 3,39 | | 2,51 (0,56 - 3,14) | 1253 | 11,60 |
| 35+35 | 3,20 | 3,20 | | | 6,40 (1,90 - 7,00) | 2,77 | | 2,31 (0,27 - 2,42) | 1155 | 10,10 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,00) | 3,36 | | 2,53 (0,64 - 3,07) | 1265 | 11,70 |
| 35+42 | 3,02 | 3,78 | | | 6,80 (1,90 - 7,10) | 2,57 | | 2,65 (0,27 - 2,66) | 1325 | 11,60 | 3,78 | 4,72 | | | 8,50 (2,80 - 10,00) | 3,36 | | 2,53 (0,60 - 3,07) | 1265 | 11,70 |
| 35+50 | 2,65 | 4,15 | | | 6,80 (2,00 - 7,60) | 2,91 | | 2,34 (0,28 - 2,61) | 1168 | 10,30 | 3,32 | 5,18 | | | 8,50 (2,80 - 10,30) | 3,48 | | 2,45 (0,54 - 3,13) | 1223 | 11,30 |
| 42+42 | 3,40 | 3,40 | | | 6,80 (1,90 - 7,10) | 2,57 | | 2,65 (0,26 - 2,66) | 1325 | 11,60 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,00) | 3,37 | | 2,52 (0,60 - 3,03) | 1260 | 11,60 |
| 42+50 | 3,02 | 3,78 | | | 6,80 (2,00 - 7,60) | 2,91 | | 2,34 (0,28 - 2,56) | 1168 | 10,30 | 3,78 | 4,72 | | | 8,50 (2,80 - 10,30) | 3,49 | | 2,44 (0,54 - 3,12) | 1218 | 11,20 |
| 50+50 | 3,40 | 3,40 | | | 6,80 (2,10 - 8,10) | 3,08 | | 2,21 (0,32 - 2,72) | 1105 | 9,70 | 4,25 | 4,25 | | | 8,50 (2,80 - 10,50) | 3,54 | | 2,40 (0,51 - 3,13) | 1200 | 11,10 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16 | 1,60 | 1,60 | 1,60 | | 4,80 (1,90 - 8,00) | 3,90 | | 1,23 (0,27 - 2,71) | 615 | 5,50 | 2,60 | 2,60 | 2,60 | | 7,80 (3,30 - 10,40) | 3,70 | | 2,11 (0,64 - 3,07) | 1055 | 9,70 |
| 16+16+20 | 1,60 | 1,60 | 2,00 | | 5,20 (1,90 - 8,00) | 3,80 | | 1,37 (0,27 - 2,67) | 685 | 6,10 | 2,58 | 2,58 | 3,24 | | 8,40 (3,30 - 10,40) | 3,61 | | 2,33 (0,64 - 3,06) | 1165 | 10,70 |
| 16+16+25 | 1,60 | 1,60 | 2,50 | | 5,70 (1,90 - 8,00) | 3,56 | | 1,60 (0,27 - 2,67) | 800 | 7,10 | 2,39 | 2,39 | 3,72 | | 8,50 (3,30 - 10,40) | 3,59 | | 2,37 (0,64 - 3,06) | 1185 | 10,90 |
| 16+16+35 | 1,60 | 1,60 | 3,20 | | 6,40 (1,90 - 8,00) | 3,39 | | 1,89 (0,27 - 2,58) | 945 | 8,30 | 2,13 | 2,13 | 4,24 | | 8,50 (3,30 - 10,40) | 3,68 | | 2,31 (0,63 - 3,04) | 1155 | 10,70 |
| 16+16+42 | 1,51 | 1,51 | 3,78 | | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,67) | 1060 | 9,30 | 1,89 | 1,89 | 4,72 | | 8,50 (3,30 - 10,50) | 3,70 | | 2,30 (0,62 - 3,07) | 1150 | 10,60 |
| 16+16+50 | 1,33 | 1,33 | 4,14 | | 6,80 (2,00 - 8,50) | 3,26 | | 2,09 (0,32 - 2,74) | 1043 | 9,20 | 1,66 | 1,66 | 5,18 | | 8,50 (3,20 - 10,60) | 3,74 | | 2,28 (0,60 - 3,04) | 1138 | 10,50 |
| 16+20+20 | 1,60 | 2,00 | 2,00 | | 5,60 (1,90 - 8,00) | 3,68 | | 1,52 (0,27 - 2,67) | 760 | 6,70 | 2,42 | 3,04 | 3,04 | | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16+20+25 | 1,60 | 2,00 | 2,50 | | 6,10 (1,90 - 8,00) | 3,45 | | 1,77 (0,27 - 2,67) | 885 | 7,80 | 2,23 | 2,79 | 3,48 | | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16+20+35 | 1,60 | 2,00 | 3,20 | | 6,80 (1,90 - 8,00) | 3,21 | 6,40 A++ | 2,12 (0,27 - 2,58) | 1060 | 9,30 | 2,00 | 2,50 | 4,00 | | 8,50 (3,30 - 10,40) | 3,70 | 3,80 A | 2,30 (0,62 - 2,99) | 1150 | 10,60 |
| 16+20+42 | 1,43 | 1,79 | 3,58 | | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,63) | 1060 | 9,30 | 1,79 | 2,24 | 4,47 | | 8,50 (3,30 - 10,50) | 3,71 | | 2,29 (0,62 - 3,02) | 1145 | 10,60 |
| 16+20+50 | 1,27 | 1,58 | 3,95 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,32 - 2,74) | 1018 | 8,90 | 1,58 | 1,98 | 4,94 | | 8,50 (3,20 - 10,60) | 3,75 | | 2,27 (0,60 - 3,03) | 1133 | 10,40 |
| 16+25+25 | 1,60 | 2,50 | 2,50 | | 6,60 (1,90 - 8,00) | 3,25 | | 2,03 (0,27 - 2,67) | 1015 | 8,90 | 2,06 | 3,22 | 3,22 | | 8,50 (3,30 - 10,40) | 3,60 | | 2,36 (0,63 - 3,05) | 1180 | 10,90 |
| 16+25+35 | 1,49 | 2,33 | 2,98 | | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,58) | 1060 | 9,30 | 1,86 | 2,91 | 3,73 | | 8,50 (3,30 - 10,40) | 3,70 | | 2,30 (0,62 - 2,99) | 1150 | 10,60 |
| 16+25+42 | 1,34 | 2,10 | 3,36 | | 6,80 (1,90 - 8,10) | 3,21 | | 2,12 (0,27 - 2,63) | 1060 | 9,30 | 1,68 | 2,62 | 4,20 | | 8,50 (3,30 - 10,50) | 3,71 | | 2,29 (0,62 - 3,02) | 1145 | 10,60 |
| 16+25+50 | 1,19 | 1,87 | 3,74 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,32 - 2,74) | 1018 | 8,90 | 1,49 | 2,34 | 4,67 | | 8,50 (3,20 - 10,60) | 3,75 | | 2,27 (0,60 - 3,03) | 1133 | 10,40 |
| 16+35+35 | 1,36 | 2,72 | 2,72 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,58) | 1035 | 9,10 | 1,70 | 3,40 | 3,40 | | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,64 - 3,00) | 1140 | 10,50 |
| 16+35+42 | 1,24 | 2,47 | 3,09 | | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,55 | 3,09 | 3,86 | | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 16+35+50 | 1,11 | 2,22 | 3,47 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,38 | 2,78 | 4,34 | | 8,50 (3,20 - 10,60) | 3,79 | | 2,25 (0,60 - 3,00) | 1123 | 10,40 |
| 16+42+42 | 1,14 | 2,83 | 2,83 | | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,42 | 3,54 | 3,54 | | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 16+42+50 | 1,02 | 2,57 | 3,21 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,28 | 3,21 | 4,01 | | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 20+20+20 | 2,00 | 2,00 | 2,00 | | 6,00 (1,90 - 8,00) | 3,49 | | 1,72 (0,27 - 2,62) | 860 | 7,60 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20+20+25 | 2,00 | 2,00 | 2,50 | | 6,50 (1,90 - 8,00) | 3,28 | | 1,98 (0,27 - 2,62) | 990 | 8,70 | 2,62 | 2,62 | 3,26 | | 8,50 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20+20+35 | 1,89 | 1,89 | 3,02 | | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,36 | 2,36 | 3,78 | | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 20+20+42 | 1,70 | 1,70 | 3,40 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,13 | 2,13 | 4,24 | | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 20+20+50 | 1,51 | 1,51 | 3,78 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,89 | 1,89 | 4,72 | | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 20+25+25 | 1,94 | 2,43 | 2,43 | | 6,80 (1,90 - 8,00) | 3,21 | 6,40 A++ | 2,12 (0,27 - 2,62) | 1060 | 9,30 | 2,42 | 3,04 | 3,04 | | 8,50 (3,30 - 10,40) | 3,66 | 3,80 A | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 20+25+35 | 1,76 | 2,21 | 2,83 | | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,21 | 2,76 | 3,53 | | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 20+25+42 | 1,60 | 2,00 | 3,20 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,00 | 2,50 | 4,00 | | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 20+25+50 | 1,43 | 1,79 | 3,58 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 1,79 | 2,24 | 4,47 | | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 20+35+35 | 1,62 | 2,59 | 2,59 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,54) | 1035 | 9,10 | 2,02 | 3,24 | 3,24 | | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 20+35+42 | 1,47 | 2,37 | 2,96 | | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 1,84 | 2,96 | 3,70 | | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 20+35+50 | 1,33 | 2,13 | 3,34 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,66 | 2,67 | 4,17 | | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 20+42+42 | 1,36 | 2,72 | 2,72 | | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,58) | 1010 | 8,90 | 1,70 | 3,40 | 3,40 | | 8,50 (3,30 - 10,50) | 3,78 | | 2,25 (0,63 - 2,98) | 1125 | 10,40 |
| 20+42+50 | 1,24 | 2,47 | 3,09 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,55 | 3,09 | 3,86 | | 8,50 (3,20 - 10,60) | 3,82 | | 2,23 (0,62 - 2,98) | 1113 | 10,30 |
| 25+25+25 | 2,26 | 2,26 | 2,26 | | 6,78 (1,90 - 8,00) | 3,20 | | 2,12 (0,27 - 2,62) | 1060 | 9,30 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,40) | 3,66 | | 2,32 (0,63 - 3,04) | 1160 | 10,70 |
| 25+25+35 | 2,07 | 2,07 | 2,66 | | 6,80 (1,90 - 8,00) | 3,21 | | 2,12 (0,27 - 2,53) | 1060 | 9,30 | 2,59 | 2,59 | 3,32 | | 8,50 (3,30 - 10,40) | 3,71 | | 2,29 (0,62 - 2,98) | 1145 | 10,60 |
| 25+25+42 | 1,89 | 1,89 | 3,02 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,36 | 2,36 | 3,78 | | 8,50 (3,30 - 10,50) | 3,73 | | 2,28 (0,62 - 3,01) | 1140 | 10,50 |
| 25+25+50 | 1,70 | 1,70 | 3,40 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,70) | 1018 | 8,90 | 2,13 | 2,13 | 4,24 | | 8,50 (3,20 - 10,60) | 3,77 | | 2,26 (0,60 - 3,02) | 1128 | 10,40 |
| 25+35+35 | 1,92 | 2,44 | 2,44 | | 6,80 (1,90 - 8,10) | 3,29 | | 2,07 (0,29 - 2,54) | 1035 | 9,10 | 2,38 | 3,06 | 3,06 | | 8,50 (3,30 - 10,50) | 3,74 | | 2,27 (0,64 - 3,00) | 1135 | 10,50 |
| 25+35+42 | 1,75 | 2,24 | 2,81 | | 6,80 (1,90 - 8,20) | 3,29 | | 2,07 (0,29 - 2,63) | 1035 | 9,10 | 2,19 | 2,80 | 3,51 | | 8,50 (3,30 - 10,50) | 3,76 | | 2,26 (0,64 - 2,99) | 1130 | 10,40 |
| 25+35+50 | 1,59 | 2,03 | 3,18 | | 6,80 (2,00 - 8,50) | 3,34 | | 2,04 (0,34 - 2,65) | 1018 | 8,90 | 1,99 | 2,54 | 3,97 | | 8,50 (3,20 - 10,60) | 3,80 | | 2,24 (0,60 - 2,99) | 1118 | 10,30 |
| 25+42+42 | 1,62 | 2,59 | 2,59 | | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,58) | 1010 | 8,90 | 2,02 | 3,24 | 3,24 | | 8,50 (3,30 - 10,50) | 3,78 | | 2,25 (0,63 - 2,98) | 1125 | 10,40 |
| 35+35+35 | 2,26 | 2,26 | 2,26 | | 6,78 (1,90 - 8,20) | 3,36 | | 2,02 (0,29 - 2,54) | 1010 | 8,90 | 2,83 | 2,83 | 2,83 | | 8,49 (3,30 - 10,50) | 3,84 | | 2,21 (0,63 - 2,97) | 1105 | 10,20 |
| 35+35+42 | 2,09 | 2,09 | 2,62 | | 6,80 (1,90 - 8,20) | 3,37 | | 2,02 (0,29 - 2,54) | 1010 | 8,90 | 2,62 | 2,62 | 3,26 | | 8,50 (3,30 - 10,50) | 3,86 | | 2,20 (0,63 - 2,92) | 1100 | 10,10 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | 6,40 (1,90 - 8,70) | 3,58 | | 1,79 (0,34 - 2,66) | 895 | 7,90 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,00 - 10,60) | 3,87 | | 2,19 (0,58 - 2,89) | 1095 | 10,10 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (1,90 - 8,80) | 3,47 | 7,00 A++ | 1,96 (0,34 - 2,75) | 980 | 8,60 | 2,00 | 2,00 | 2,00 | 2,50 | 8,50 (3,00 - 10,60) | 3,90 | 4,00 A+ | 2,18 (0,58 - 2,88) | 1090 | 10,10 |
| 16+16+16+25 | 1,49 | 1,49 | 1,49 | 2,33 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,75) | 980 | 8,60 | 1,86 | 1,86 | 1,86 | 2,92 | 8,50 (3,00 - 10,60) | 3,90 | | 2,18 (0,58 - 2,88) | 1090 | 10,10 |

## Free Multi 4x1 CU-4E23PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 11,00kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+16+16+35 | 1,36 | 1,36 | 1,36 | 2,72 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 1,70 | 1,70 | 1,70 | 3,40 | 8,50 (3,00 - 10,60) | 3,94 | | 2,16 (0,58 - 2,86) | 1080 | 10,00 |
| 16+16+16+42 | 1,24 | 1,24 | 1,24 | 3,08 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,34 - 2,66) | 960 | 8,40 | 1,55 | 1,55 | 1,55 | 3,85 | 8,50 (3,00 - 10,60) | 3,95 | | 2,15 (0,58 - 2,85) | 1075 | 9,90 |
| 16+16+16+50 | 1,11 | 1,11 | 1,11 | 3,47 | 6,80 (1,90 - 8,80) | 3,36 | | 2,03 (0,40 - 2,63) | 1013 | 8,90 | 1,39 | 1,39 | 1,39 | 4,33 | 8,50 (3,00 - 10,60) | 3,84 | | 2,22 (0,65 - 2,86) | 1108 | 10,20 |
| 16+16+20+20 | 1,51 | 1,51 | 1,89 | 1,89 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,89 | 1,89 | 2,36 | 2,36 | 8,50 (3,10 - 10,60) | 3,92 | | 2,17 (0,60 - 2,87) | 1085 | 10,00 |
| 16+16+20+25 | 1,41 | 1,41 | 1,77 | 2,21 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,77 | 1,77 | 2,20 | 2,76 | 8,50 (3,10 - 10,60) | 3,92 | | 2,17 (0,60 - 2,87) | 1085 | 10,00 |
| 16+16+20+35 | 1,30 | 1,30 | 1,61 | 2,59 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,34 - 2,66) | 960 | 8,40 | 1,62 | 1,62 | 2,02 | 3,24 | 8,50 (3,00 - 10,60) | 3,95 | | 2,15 (0,58 - 2,85) | 1075 | 9,90 |
| 16+16+20+42 | 1,18 | 1,18 | 1,48 | 2,96 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,48 | 1,48 | 1,84 | 3,70 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,60 - 2,84) | 1070 | 9,90 |
| 16+16+20+50 | 1,07 | 1,07 | 1,33 | 3,33 | 6,80 (1,90 - 8,80) | 3,36 | | 2,03 (0,40 - 2,59) | 1013 | 8,90 | 1,33 | 1,33 | 1,67 | 4,17 | 8,50 (3,00 - 10,60) | 3,84 | | 2,22 (0,66 - 2,85) | 1108 | 10,20 |
| 16+16+25+25 | 1,33 | 1,33 | 2,07 | 2,07 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,66 | 1,66 | 2,59 | 2,59 | 8,50 (3,10 - 10,60) | 3,92 | | 2,17 (0,60 - 2,87) | 1085 | 10,00 |
| 16+16+25+35 | 1,22 | 1,22 | 1,91 | 2,45 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,34 - 2,66) | 960 | 8,40 | 1,53 | 1,53 | 2,38 | 3,06 | 8,50 (3,00 - 10,60) | 3,95 | | 2,15 (0,58 - 2,85) | 1075 | 9,90 |
| 16+16+25+42 | 1,12 | 1,12 | 1,76 | 2,80 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,40 | 1,40 | 2,19 | 3,51 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,60 - 2,84) | 1070 | 9,90 |
| 16+16+25+50 | 1,02 | 1,02 | 1,58 | 3,18 | 6,80 (1,90 - 8,80) | 3,36 | | 2,03 (0,40 - 2,59) | 1013 | 8,90 | 1,27 | 1,27 | 1,99 | 3,97 | 8,50 (3,00 - 10,60) | 3,84 | | 2,22 (0,66 - 2,85) | 1108 | 10,20 |
| 16+16+35+35 | 1,13 | 1,13 | 2,27 | 2,27 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,42 | 1,42 | 2,83 | 2,83 | 8,50 (3,00 - 10,60) | 3,99 | | 2,13 (0,61 - 2,82) | 1065 | 9,80 |
| 16+16+35+42 | 1,05 | 1,05 | 2,08 | 2,62 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,31 | 1,31 | 2,61 | 3,27 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 16+20+20+20 | 1,43 | 1,79 | 1,79 | 1,79 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,78 | 2,24 | 2,24 | 2,24 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,86) | 1080 | 10,00 |
| 16+20+20+25 | 1,34 | 1,68 | 1,68 | 2,10 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,68 | 2,10 | 2,10 | 2,62 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,86) | 1080 | 10,00 |
| 16+20+20+35 | 1,23 | 1,55 | 1,55 | 2,47 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,55 | 1,93 | 1,93 | 3,09 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,60 - 2,84) | 1070 | 9,90 |
| 16+20+20+42 | 1,13 | 1,42 | 1,42 | 2,83 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,42 | 1,77 | 1,77 | 3,54 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 16+20+20+50 | 1,03 | 1,28 | 1,28 | 3,21 | 6,80 (1,90 - 8,80) | 3,36 | | 2,03 (0,42 - 2,59) | 1013 | 8,90 | 1,28 | 1,60 | 1,60 | 4,02 | 8,50 (3,00 - 10,60) | 3,85 | | 2,21 (0,68 - 2,84) | 1103 | 10,20 |
| 16+20+25+25 | 1,26 | 1,58 | 1,98 | 1,98 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,58 | 1,98 | 2,47 | 2,47 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,86) | 1080 | 10,00 |
| 16+20+25+35 | 1,17 | 1,46 | 1,83 | 2,34 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,46 | 1,83 | 2,28 | 2,93 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,60 - 2,84) | 1070 | 9,90 |
| 16+20+25+42 | 1,08 | 1,35 | 1,68 | 2,69 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,35 | 1,68 | 2,10 | 3,37 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 16+20+35+35 | 1,08 | 1,36 | 2,18 | 2,18 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,36 | 1,70 | 2,72 | 2,72 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 16+20+35+42 | 1,01 | 1,26 | 2,01 | 2,52 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,26 | 1,57 | 2,52 | 3,15 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 16+25+25+25 | 1,19 | 1,87 | 1,87 | 1,87 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,71) | 980 | 8,60 | 1,48 | 2,34 | 2,34 | 2,34 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,86) | 1080 | 10,00 |
| 16+25+25+35 | 1,11 | 1,73 | 1,73 | 2,23 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,38 | 2,17 | 2,17 | 2,78 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,60 - 2,84) | 1070 | 9,90 |
| 16+25+25+42 | 1,03 | 1,60 | 1,60 | 2,57 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,66) | 960 | 8,40 | 1,28 | 2,00 | 2,00 | 3,22 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 16+25+35+35 | 1,04 | 1,62 | 2,07 | 2,07 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,30 | 2,02 | 2,59 | 2,59 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 20+20+20+20 | 1,70 | 1,70 | 1,70 | 1,70 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,10 - 10,60) | 3,93 | | 2,16 (0,60 - 2,85) | 1080 | 10,00 |
| 20+20+20+25 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 2,00 | 2,00 | 2,00 | 2,50 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,85) | 1080 | 10,00 |
| 20+20+20+35 | 1,48 | 1,48 | 1,48 | 2,36 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,85 | 1,85 | 1,85 | 2,95 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 20+20+20+42 | 1,36 | 1,36 | 1,36 | 2,72 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,70 | 1,70 | 1,70 | 3,40 | 8,50 (3,00 - 10,60) | 3,99 | | 2,13 (0,61 - 2,82) | 1065 | 9,80 |
| 20+20+20+50 | 1,24 | 1,24 | 1,24 | 3,08 | 6,80 (1,90 - 8,80) | 3,36 | | 2,03 (0,42 - 2,59) | 1013 | 8,90 | 1,55 | 1,55 | 1,55 | 3,85 | 8,50 (3,00 - 10,60) | 3,87 | | 2,20 (0,68 - 2,83) | 1098 | 10,10 |
| 20+20+25+25 | 1,51 | 1,51 | 1,89 | 1,89 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 1,89 | 1,89 | 2,36 | 2,36 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,85) | 1080 | 10,00 |
| 20+20+25+35 | 1,40 | 1,40 | 1,75 | 2,25 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,75 | 1,75 | 2,19 | 2,81 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 20+20+25+42 | 1,30 | 1,30 | 1,61 | 2,59 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,62 | 1,62 | 2,02 | 3,24 | 8,50 (3,00 - 10,60) | 3,99 | | 2,13 (0,61 - 2,82) | 1065 | 9,80 |
| 20+20+35+35 | 1,31 | 1,31 | 2,09 | 2,09 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,63 | 1,63 | 2,62 | 2,62 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 20+25+25+25 | 1,43 | 1,79 | 1,79 | 1,79 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 1,78 | 2,24 | 2,24 | 2,24 | 8,50 (3,10 - 10,60) | 3,94 | | 2,16 (0,60 - 2,85) | 1080 | 10,00 |
| 20+25+25+35 | 1,33 | 1,67 | 1,67 | 2,13 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,67 | 2,08 | 2,08 | 2,67 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 20+25+25+42 | 1,23 | 1,55 | 1,55 | 2,47 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,55 | 1,93 | 1,93 | 3,09 | 8,50 (3,00 - 10,60) | 3,99 | | 2,13 (0,61 - 2,82) | 1065 | 9,80 |
| 20+25+35+35 | 1,24 | 1,56 | 2,00 | 2,00 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,55 | 1,95 | 2,50 | 2,50 | 8,50 (3,00 - 10,60) | 4,01 | | 2,12 (0,61 - 2,81) | 1060 | 9,80 |
| 25+25+25+25 | 1,70 | 1,70 | 1,70 | 1,70 | 6,80 (1,90 - 8,80) | 3,47 | | 1,96 (0,34 - 2,66) | 980 | 8,60 | 2,12 | 2,12 | 2,12 | 2,12 | 8,48 (3,10 - 10,60) | 3,93 | | 2,16 (0,60 - 2,85) | 1080 | 10,00 |
| 25+25+25+35 | 1,59 | 1,59 | 1,59 | 2,03 | 6,80 (1,90 - 8,80) | 3,54 | | 1,92 (0,37 - 2,61) | 960 | 8,40 | 1,99 | 1,99 | 1,99 | 2,53 | 8,50 (3,00 - 10,60) | 3,97 | | 2,14 (0,61 - 2,83) | 1070 | 9,90 |
| 25+25+28+35 | 1,55 | 1,55 | 1,72 | 1,98 | 6,80 (1,90 - 8,80) | 3,68 | | 1,85 (0,37 - 2,54) | 925 | 8,10 | 1,93 | 1,93 | 2,16 | 2,48 | 8,50 (3,00 - 10,60) | 4,11 | | 2,07 (0,61 - 2,76) | 1035 | 9,50 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh).
* EER, COP, SEER, SCOP, Input Power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 4x1 CU-4E27PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 13,6 kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | 1,60 (1,30 - 2,30) | 3,40 | | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | | 2,60 (1,20 - 3,20) | 3,88 | | 0,67 (0,30 - 1,03) | 335 | 3,20 |
| 20 | 2,00 | | | | 2,00 (1,80 - 2,90) | 3,51 | | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | | 3,20 (1,20 - 4,10) | 3,95 | | 0,81 (0,30 - 1,30) | 405 | 4,00 |
| 25 | 2,50 | | | | 2,50 (1,80 - 2,90) | 3,57 | | 0,70 (0,34 - 0,88) | 350 | 3,40 | 3,60 | | | | 3,60 (1,20 - 4,30) | 3,56 | | 1,01 (0,30 - 1,30) | 505 | 5,00 |
| 35 | 3,20 | | | | 3,20 (1,80 - 3,80) | 3,68 | | 0,87 (0,34 - 1,43) | 435 | 4,20 | 4,50 | | | | 4,50 (1,20 - 5,80) | 3,46 | | 1,30 (0,30 - 2,17) | 650 | 6,30 |
| 42 | 4,00 | | | | 4,00 (1,80 - 4,30) | 3,05 | | 1,31 (0,34 - 2,06) | 655 | 6,10 | 5,60 | | | | 5,60 (1,20 - 6,80) | 3,13 | | 1,79 (0,30 - 3,00) | 895 | 8,30 |
| 50 | 5,00 | | | | 5,00 (1,90 - 5,70) | 2,90 | | 1,73 (0,34 - 2,31) | 863 | 8,00 | 6,80 | | | | 6,80 (1,20 - 6,90) | 2,99 | | 2,28 (0,30 - 2,70) | 1138 | 10,50 |
| 71 | 7,00 | | | | 7,00 (2,00 - 7,20) | 2,63 | | 2,67 (0,37 - 2,95) | 1333 | 12,10 | 8,70 | | | | 8,70 (1,40 - 9,20) | 3,19 | | 2,73 (0,68 - 2,90) | 1363 | 12,60 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16 | 1,60 | 1,60 | | | 3,20 (2,40 - 5,80) | 3,68 | | 0,87 (0,38 - 2,13) | 435 | 4,30 | 2,35 | 2,35 | | | 4,70 (2,20 - 8,20) | 3,05 | | 1,54 (0,44 - 3,05) | 770 | 7,30 |
| 16+20 | 1,60 | 2,00 | | | 3,60 (2,40 - 5,80) | 3,56 | | 1,01 (0,38 - 2,13) | 505 | 4,90 | 2,31 | 2,89 | | | 5,20 (2,20 - 8,20) | 3,02 | | 1,72 (0,44 - 3,04) | 860 | 8,20 |
| 16+25 | 1,60 | 2,50 | | | 4,10 (2,40 - 5,80) | 3,39 | | 1,21 (0,38 - 2,13) | 605 | 5,90 | 2,19 | 3,41 | | | 5,60 (2,20 - 8,20) | 2,99 | | 1,87 (0,44 - 3,04) | 935 | 8,80 |
| 16+35 | 1,60 | 3,20 | | | 4,80 (2,40 - 5,80) | 3,29 | | 1,46 (0,37 - 2,06) | 730 | 7,00 | 2,13 | 4,27 | | | 6,40 (2,20 - 8,20) | 3,17 | | 2,02 (0,39 - 2,96) | 1010 | 9,50 |
| 16+42 | 1,60 | 4,00 | | | 5,60 (2,40 - 5,80) | 3,15 | | 1,78 (0,37 - 2,00) | 890 | 8,40 | 2,11 | 5,29 | | | 7,40 (2,20 - 8,60) | 3,26 | | 2,27 (0,38 - 3,06) | 1135 | 10,70 |
| 16+50 | 1,60 | 5,00 | | | 6,60 (2,40 - 7,20) | 2,97 | | 2,23 (0,35 - 2,73) | 1113 | 10,60 | 2,06 | 6,44 | | | 8,50 (2,20 - 10,00) | 3,28 | | 2,60 (0,33 - 3,58) | 1298 | 12,20 |
| 16+71 | 1,49 | 6,51 | | | 8,00 (2,40 - 8,50) | 2,79 | | 2,87 (0,35 - 3,59) | 1433 | 13,60 | 1,75 | 7,65 | | | 9,40 (2,20 - 10,30) | 3,48 | | 2,71 (0,33 - 3,75) | 1353 | 12,70 |
| 20+20 | 2,00 | 2,00 | | | 4,00 (2,40 - 5,80) | 3,48 | | 1,15 (0,38 - 2,07) | 575 | 5,60 | 2,90 | 2,90 | | | 5,80 (2,20 - 8,20) | 3,14 | | 1,85 (0,40 - 3,03) | 925 | 8,70 |
| 20+25 | 2,00 | 2,50 | | | 4,50 (2,40 - 5,80) | 3,31 | | 1,36 (0,38 - 2,07) | 680 | 6,50 | 2,71 | 3,39 | | | 6,10 (2,20 - 8,20) | 3,14 | | 1,94 (0,40 - 3,03) | 970 | 9,10 |
| 20+35 | 2,00 | 3,20 | | | 5,20 (2,40 - 5,80) | 3,33 | | 1,56 (0,37 - 2,00) | 780 | 7,50 | 2,65 | 4,25 | | | 6,90 (2,20 - 8,60) | 3,33 | | 2,07 (0,38 - 3,06) | 1035 | 9,70 |
| 20+42 | 2,00 | 4,00 | | | 6,00 (2,40 - 6,70) | 3,00 | | 2,00 (0,37 - 2,62) | 1000 | 9,50 | 2,63 | 5,27 | | | 7,90 (2,20 - 9,80) | 3,22 | | 2,45 (0,38 - 3,65) | 1225 | 11,50 |
| 20+50 | 2,00 | 5,00 | | | 7,00 (2,40 - 8,10) | 3,02 | 5,60 A+ | 2,32 (0,35 - 3,35) | 1158 | 11,00 | 2,57 | 6,43 | | | 9,00 (2,20 - 10,00) | 3,51 | 3,80 A | 2,57 (0,33 - 3,56) | 1283 | 12,10 |
| 20+71 | 1,78 | 6,22 | | | 8,00 (2,50 - 8,50) | 2,86 | | 2,80 (0,38 - 3,59) | 1398 | 13,30 | 2,09 | 7,31 | | | 9,40 (2,20 - 10,30) | 3,49 | | 2,70 (0,33 - 3,74) | 1348 | 12,70 |
| 25+25 | 2,50 | 2,50 | | | 5,00 (2,40 - 5,80) | 3,31 | | 1,51 (0,38 - 2,07) | 755 | 7,20 | 3,25 | 3,25 | | | 6,50 (2,20 - 8,60) | 3,32 | | 1,96 (0,40 - 3,14) | 980 | 9,20 |
| 25+35 | 2,50 | 3,20 | | | 5,70 (2,40 - 6,70) | 3,11 | | 1,83 (0,37 - 2,62) | 915 | 8,70 | 3,20 | 4,10 | | | 7,30 (2,20 - 9,80) | 3,29 | | 2,22 (0,38 - 3,66) | 1110 | 10,40 |
| 25+42 | 2,50 | 4,00 | | | 6,50 (2,40 - 7,20) | 2,81 | | 2,31 (0,37 - 3,04) | 1155 | 11,00 | 3,19 | 5,11 | | | 8,30 (2,20 - 10,00) | 3,18 | | 2,61 (0,38 - 3,78) | 1305 | 12,30 |
| 25+50 | 2,50 | 5,00 | | | 7,50 (2,40 - 8,50) | 2,85 | | 2,64 (0,35 - 3,74) | 1318 | 12,50 | 3,13 | 6,27 | | | 9,40 (2,20 - 10,00) | 3,41 | | 2,76 (0,33 - 3,56) | 1378 | 12,90 |
| 25+71 | 2,11 | 5,89 | | | 8,00 (2,50 - 8,50) | 2,86 | | 2,80 (0,38 - 3,59) | 1398 | 13,30 | 2,47 | 6,93 | | | 9,40 (2,20 - 10,30) | 3,49 | | 2,70 (0,33 - 3,74) | 1348 | 12,70 |
| 35+35 | 3,20 | 3,20 | | | 6,40 (2,40 - 7,20) | 2,94 | | 2,18 (0,37 - 2,90) | 1090 | 10,30 | 4,05 | 4,05 | | | 8,10 (2,20 - 10,00) | 3,25 | | 2,49 (0,37 - 3,70) | 1245 | 11,70 |
| 35+42 | 3,20 | 4,00 | | | 7,20 (2,40 - 8,10) | 2,71 | | 2,66 (0,37 - 3,77) | 1330 | 12,60 | 4,04 | 5,06 | | | 9,10 (2,20 - 10,00) | 3,38 | | 2,69 (0,36 - 3,69) | 1345 | 12,60 |
| 35+50 | 3,12 | 4,88 | | | 8,00 (2,50 - 8,50) | 2,86 | 5,60 A+ | 2,80 (0,38 - 3,59) | 1398 | 13,30 | 3,67 | 5,73 | | | 9,40 (2,20 - 10,00) | 3,51 | 3,80 A | 2,68 (0,32 - 3,53) | 1338 | 12,60 |
| 35+71 | 2,51 | 5,49 | | | 8,00 (2,50 - 8,60) | 2,93 | | 2,74 (0,38 - 3,59) | 1368 | 13,00 | 2,95 | 6,45 | | | 9,40 (2,20 - 10,30) | 3,53 | | 2,67 (0,32 - 3,63) | 1333 | 12,50 |
| 42+42 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,50) | 2,48 | 5,60 A+ | 3,22 (0,40 - 4,18) | 1610 | 15,30 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,00) | 3,38 | 3,80 A | 2,78 (0,36 - 3,67) | 1390 | 13,10 |
| 42+50 | 3,56 | 4,44 | | | 8,00 (2,50 - 8,50) | 2,86 | | 2,80 (0,38 - 3,59) | 1398 | 13,30 | 4,18 | 5,22 | | | 9,40 (2,20 - 10,30) | 3,53 | | 2,67 (0,32 - 3,64) | 1333 | 12,50 |
| 42+71 | 2,91 | 5,09 | | | 8,00 (2,50 - 8,60) | 2,93 | | 2,74 (0,38 - 3,51) | 1368 | 13,00 | 3,42 | 5,98 | | | 9,40 (2,20 - 10,50) | 3,54 | | 2,66 (0,32 - 3,75) | 1328 | 12,50 |
| 50+50 | 4,00 | 4,00 | | | 8,00 (2,50 - 8,60) | 3,10 | | 2,58 (0,38 - 3,30) | 1290 | 12,20 | 4,70 | 4,70 | | | 9,40 (2,20 - 10,30) | 3,62 | | 2,60 (0,32 - 3,52) | 1300 | 12,20 |
| 50+71 | 3,33 | 4,67 | | | 8,00 (2,50 - 8,60) | 3,17 | | 2,52 (0,38 - 3,23) | 1260 | 12,00 | 3,92 | 5,48 | | | 9,40 (2,20 - 10,50) | 3,63 | | 2,59 (0,32 - 3,56) | 1295 | 12,20 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16 | 1,60 | 1,60 | 1,60 | | 4,80 (3,00 - 8,50) | 3,72 | | 1,29 (0,49 - 3,32) | 645 | 6,20 | 2,87 | 2,87 | 2,87 | | 8,61 (3,20 - 10,40) | 3,71 | | 2,32 (0,51 - 3,63) | 1160 | 10,90 |
| 16+16+20 | 1,60 | 1,60 | 2,00 | | 5,20 (3,00 - 8,50) | 3,74 | | 1,39 (0,49 - 3,32) | 695 | 6,70 | 2,65 | 2,65 | 3,31 | | 8,61 (3,20 - 10,40) | 3,81 | | 2,26 (0,51 - 3,56) | 1130 | 10,60 |
| 16+16+25 | 1,60 | 1,60 | 2,50 | | 5,70 (3,00 - 8,50) | 3,56 | | 1,60 (0,49 - 3,32) | 800 | 7,70 | 2,42 | 2,42 | 3,77 | | 8,61 (3,20 - 10,40) | 3,81 | | 2,26 (0,51 - 3,56) | 1130 | 10,60 |
| 16+16+35 | 1,60 | 1,60 | 3,20 | | 6,40 (3,00 - 8,50) | 3,40 | | 1,88 (0,48 - 3,24) | 940 | 8,90 | 2,15 | 2,15 | 4,31 | | 8,61 (3,20 - 10,40) | 3,86 | | 2,23 (0,50 - 3,52) | 1115 | 10,50 |
| 16+16+42 | 1,60 | 1,60 | 4,00 | | 7,20 (3,00 - 8,50) | 3,35 | | 2,15 (0,48 - 3,16) | 1075 | 10,20 | 1,91 | 1,91 | 4,79 | | 8,61 (3,20 - 10,40) | 3,88 | | 2,22 (0,50 - 3,50) | 1110 | 10,40 |
| 16+16+50 | 1,56 | 1,56 | 4,88 | | 8,00 (3,00 - 8,60) | 3,31 | | 2,42 (0,52 - 3,05) | 1208 | 11,50 | 1,68 | 1,68 | 5,25 | | 8,61 (3,20 - 10,40) | 3,89 | | 2,22 (0,49 - 3,39) | 1108 | 10,40 |
| 16+16+71 | 1,25 | 1,25 | 5,50 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 1,35 | 1,35 | 5,91 | | 8,61 (3,20 - 10,50) | 3,90 | | 2,21 (0,52 - 3,44) | 1103 | 10,40 |
| 16+20+20 | 1,60 | 2,00 | 2,00 | | 5,60 (3,00 - 8,50) | 3,61 | | 1,55 (0,49 - 3,24) | 775 | 7,40 | 2,45 | 3,08 | 3,08 | | 8,61 (3,20 - 10,40) | 3,83 | | 2,25 (0,51 - 3,54) | 1125 | 10,60 |
| 16+20+25 | 1,60 | 2,00 | 2,50 | | 6,10 (3,00 - 8,50) | 3,47 | | 1,76 (0,49 - 3,24) | 880 | 8,30 | 2,26 | 2,82 | 3,53 | | 8,61 (3,20 - 10,40) | 3,83 | | 2,25 (0,51 - 3,54) | 1125 | 10,60 |
| 16+20+35 | 1,60 | 2,00 | 3,20 | | 6,80 (3,00 - 8,50) | 3,43 | | 1,98 (0,48 - 3,16) | 990 | 9,40 | 2,03 | 2,53 | 4,05 | | 8,61 (3,20 - 10,40) | 3,88 | | 2,22 (0,50 - 3,50) | 1110 | 10,40 |
| 16+20+42 | 1,60 | 2,00 | 4,00 | | 7,60 (3,00 - 8,50) | 3,25 | | 2,34 (0,48 - 3,16) | 1170 | 11,10 | 1,81 | 2,27 | 4,53 | | 8,61 (3,20 - 10,40) | 3,90 | | 2,21 (0,50 - 3,49) | 1105 | 10,40 |
| 16+20+50 | 1,49 | 1,86 | 4,65 | | 8,00 (3,00 - 8,60) | 3,31 | | 2,42 (0,52 - 3,05) | 1208 | 11,50 | 1,60 | 2,00 | 5,01 | | 8,61 (3,20 - 10,50) | 3,89 | | 2,22 (0,52 - 3,44) | 1108 | 10,40 |
| 16+20+71 | 1,21 | 1,51 | 5,28 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 1,30 | 1,62 | 5,69 | | 8,61 (3,20 - 10,50) | 3,90 | | 2,21 (0,52 - 3,42) | 1103 | 10,40 |
| 16+25+25 | 1,60 | 2,50 | 2,50 | | 6,60 (3,00 - 8,50) | 3,30 | | 2,00 (0,49 - 3,24) | 1000 | 9,50 | 2,09 | 3,26 | 3,26 | | 8,61 (3,20 - 10,40) | 3,83 | | 2,25 (0,51 - 3,54) | 1125 | 10,60 |
| 16+25+35 | 1,60 | 2,50 | 3,20 | | 7,30 (3,00 - 8,50) | 3,30 | | 2,21 (0,48 - 3,16) | 1105 | 10,50 | 1,89 | 2,95 | 3,77 | | 8,61 (3,20 - 10,40) | 3,88 | | 2,22 (0,50 - 3,50) | 1110 | 10,40 |
| 16+25+42 | 1,58 | 2,47 | 3,95 | | 8,00 (3,00 - 8,60) | 3,20 | | 2,50 (0,48 - 3,24) | 1250 | 11,90 | 1,70 | 2,66 | 4,25 | | 8,61 (3,20 - 10,40) | 3,90 | | 2,21 (0,50 - 3,49) | 1105 | 10,40 |
| 16+25+50 | 1,40 | 2,20 | 4,40 | | 8,00 (3,00 - 8,60) | 3,31 | | 2,42 (0,52 - 3,05) | 1208 | 11,50 | 1,51 | 2,37 | 4,73 | | 8,61 (3,20 - 10,50) | 3,89 | | 2,22 (0,52 - 3,44) | 1108 | 10,40 |
| 16+25+71 | 1,15 | 1,80 | 5,05 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 1,24 | 1,94 | 5,43 | | 8,61 (3,20 - 10,60) | 3,90 | | 2,21 (0,52 - 3,49) | 1103 | 10,40 |
| 16+35+35 | 1,60 | 3,20 | 3,20 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 1,73 | 3,44 | 3,44 | | 8,61 (3,20 - 10,40) | 3,93 | | 2,19 (0,50 - 3,46) | 1095 | 10,30 |
| 16+35+42 | 1,45 | 2,91 | 3,64 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 1,57 | 3,13 | 3,91 | | 8,61 (3,20 - 10,50) | 3,95 | | 2,18 (0,49 - 3,45) | 1090 | 10,20 |
| 16+35+50 | 1,31 | 2,61 | 4,08 | | 8,00 (3,00 - 8,60) | 3,40 | | 2,36 (0,52 - 2,97) | 1178 | 11,20 | 1,41 | 2,81 | 4,39 | | 8,61 (3,20 - 10,50) | 3,94 | | 2,19 (0,52 - 3,41) | 1093 | 10,30 |
| 16+35+71 | 1,08 | 2,17 | 4,75 | | 8,00 (3,00 - 9,00) | 3,40 | | 2,36 (0,52 - 3,19) | 1178 | 11,20 | 1,17 | 2,33 | 5,11 | | 8,61 (3,20 - 10,60) | 3,96 | | 2,18 (0,52 - 3,45) | 1088 | 10,20 |
| 16+42+42 | 1,34 | 3,33 | 3,33 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 1,43 | 3,59 | 3,59 | | 8,61 (3,20 - 10,50) | 3,95 | | 2,18 (0,49 - 3,44) | 1090 | 10,20 |
| 16+42+50 | 1,21 | 3,02 | 3,77 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 1,30 | 3,25 | 4,06 | | 8,61 (3,20 - 10,50) | 3,94 | | 2,19 (0,52 - 3,39) | 1093 | 10,30 |
| 16+42+71 | 1,02 | 2,54 | 4,44 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 1,09 | 2,73 | 4,79 | | 8,61 (3,20 - 10,60) | 3,96 | | 2,18 (0,53 - 3,44) | 1088 | 10,20 |
| 16+50+50 | 1,10 | 3,45 | 3,45 | | 8,00 (3,00 - 8,80) | 3,42 | | 2,34 (0,57 - 3,00) | 1170 | 11,10 | 1,19 | 3,71 | 3,71 | | 8,61 (3,20 - 10,60) | 3,90 | | 2,21 (0,58 - 3,42) | 1105 | 10,40 |
| 16+50+71 | 0,94 | 2,94 | 4,12 | | 8,00 (3,00 - 9,00) | 3,42 | | 2,34 (0,57 - 3,07) | 1170 | 11,10 | 1,01 | 3,17 | 4,43 | | 8,61 (3,20 - 10,60) | 3,84 | | 2,24 (0,61 - 3,41) | 1120 | 10,50 |
| 20+20+20 | 2,00 | 2,00 | 2,00 | | 6,00 (3,00 - 8,50) | 3,51 | | 1,71 (0,48 - 3,24) | 855 | 8,20 | 2,87 | 2,87 | 2,87 | | 8,61 (3,20 - 10,40) | 3,84 | | 2,24 (0,50 - 3,53) | 1120 | 10,50 |
| 20+20+25 | 2,00 | 2,00 | 2,50 | | 6,50 (3,00 - 8,50) | 3,35 | | 1,94 (0,48 - 3,24) | 970 | 9,20 | 2,77 | 2,77 | 3,46 | | 9,00 (3,20 - 10,40) | 3,78 | | 2,38 (0,50 - 3,53) | 1190 | 11,20 |
| 20+20+35 | 2,00 | 2,00 | 3,20 | | 7,20 (3,00 - 8,50) | 3,35 | | 2,15 (0,48 - 3,16) | 1075 | 10,20 | 2,61 | 2,61 | 4,18 | | 9,40 (3,20 - 10,40) | 3,76 | | 2,50 (0,50 - 3,49) | 1250 | 11,70 |
| 20+20+42 | 2,00 | 2,00 | 4,00 | | 8,00 (3,00 - 8,60) | 3,20 | 5,60 A+ | 2,50 (0,48 - 3,24) | 1250 | 11,90 | 2,35 | 2,35 | 4,70 | | 9,40 (3,20 - 10,40) | 3,78 | 3,80 A | 2,49 (0,50 - 3,47) | 1245 | 11,70 |
| 20+20+50 | 1,78 | 1,78 | 4,44 | | 8,00 (3,00 - 8,60) | 3,40 | | 2,36 (0,52 - 2,97) | 1178 | 11,20 | 2,09 | 2,09 | 5,22 | | 9,40 (3,20 - 10,50) | 3,80 | | 2,48 (0,52 - 3,43) | 1238 | 11,60 |
| 20+20+71 | 1,45 | 1,45 | 5,10 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,04) | 1178 | 11,20 | 1,71 | 1,71 | 5,98 | | 9,40 (3,20 - 10,50) | 3,81 | | 2,47 (0,52 - 3,41) | 1233 | 11,60 |
| 20+25+25 | 2,00 | 2,50 | 2,50 | | 7,00 (3,00 - 8,50) | 3,33 | | 2,10 (0,48 - 3,24) | 1050 | 10,00 | 2,68 | 3,36 | 3,36 | | 9,40 (3,20 - 10,40) | 3,72 | | 2,53 (0,50 - 3,53) | 1265 | 11,90 |
| 20+25+35 | 2,00 | 2,50 | 3,20 | | 7,70 (3,00 - 8,50) | 3,32 | | 2,32 (0,48 - 3,16) | 1160 | 11,00 | 2,44 | 3,05 | 3,91 | | 9,40 (3,20 - 10,40) | 3,76 | | 2,50 (0,50 - 3,49) | 1250 | 11,70 |
| 20+25+42 | 1,88 | 2,35 | 3,77 | | 8,00 (3,00 - 8,60) | 3,20 | | 2,50 (0,48 - 3,24) | 1250 | 11,90 | 2,21 | 2,76 | 4,43 | | 9,40 (3,20 - 10,40) | 3,78 | | 2,49 (0,50 - 3,47) | 1245 | 11,70 |
| 20+25+50 | 1,68 | 2,11 | 4,21 | | 8,00 (3,00 - 8,60) | 3,40 | | 2,36 (0,52 - 2,97) | 1178 | 11,20 | 1,98 | 2,47 | 4,95 | | 9,40 (3,20 - 10,50) | 3,80 | | 2,48 (0,52 - 3,43) | 1238 | 11,60 |
| 20+25+71 | 1,39 | 1,74 | 4,87 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,04) | 1178 | 11,20 | 1,63 | 2,04 | 5,73 | | 9,40 (3,20 - 10,60) | 3,81 | | 2,47 (0,52 - 3,47) | 1233 | 11,60 |
| 20+35+35 | 1,90 | 3,05 | 3,05 | | 8,00 (3,00 - 8,60) | 3,28 | 5,60 A+ | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 2,24 | 3,58 | 3,58 | | 9,40 (3,20 - 10,40) | 3,81 | 3,80 A | 2,47 (0,49 - 3,45) | 1235 | 11,60 |
| 20+35+42 | 1,74 | 2,78 | 3,48 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 2,04 | 3,27 | 4,09 | | 9,40 (3,20 - 10,50) | 3,82 | | 2,46 (0,49 - 3,44) | 1230 | 11,60 |
| 20+35+50 | 1,57 | 2,51 | 3,92 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 1,84 | 2,95 | 4,61 | | 9,40 (3,20 - 10,50) | 3,83 | | 2,46 (0,52 - 3,39) | 1228 | 11,50 |

## Free Multi 4x1 CU-4E27PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 13,6 kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 20+35+71 | 1,31 | 2,10 | 4,59 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 1,54 | 2,47 | 5,39 | | 9,40 (3,20 - 10,60) | 3,86 | | 2,44 (0,53 - 3,44) | 1218 | 11,40 |
| 20+42+42 | 1,60 | 3,20 | 3,20 | | 8,00 (3,00 - 8,80) | 3,28 | | 2,44 (0,48 - 3,24) | 1220 | 11,60 | 1,88 | 3,76 | 3,76 | | 9,40 (3,20 - 10,50) | 3,84 | | 2,45 (0,49 - 3,42) | 1225 | 11,50 |
| 20+42+50 | 1,45 | 2,91 | 3,64 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,04) | 1178 | 11,20 | 1,71 | 3,42 | 4,27 | | 9,40 (3,20 - 10,50) | 3,84 | | 2,45 (0,53 - 3,38) | 1223 | 11,50 |
| 20+42+71 | 1,23 | 2,46 | 4,31 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 1,45 | 2,89 | 5,06 | | 9,40 (3,20 - 10,60) | 3,86 | | 2,44 (0,53 - 3,43) | 1218 | 11,40 |
| 20+50+50 | 1,34 | 3,33 | 3,33 | | 8,00 (3,00 - 9,00) | 3,42 | | 2,34 (0,57 - 3,07) | 1170 | 11,10 | 1,56 | 3,92 | 3,92 | | 9,40 (3,20 - 10,60) | 3,82 | | 2,46 (0,60 - 3,41) | 1230 | 11,60 |
| 25+25+25 | 2,50 | 2,50 | 2,50 | | 7,50 (3,00 - 8,50) | 3,21 | | 2,34 (0,48 - 3,24) | 1170 | 11,10 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,40) | 3,71 | | 2,53 (0,50 - 3,53) | 1265 | 11,90 |
| 25+25+35 | 2,44 | 2,44 | 3,12 | | 8,00 (3,00 - 8,60) | 3,20 | 5,60 A+ | 2,50 (0,48 - 3,24) | 1250 | 11,90 | 2,87 | 2,87 | 3,66 | | 9,40 (3,20 - 10,40) | 3,76 | 3,80 A | 2,50 (0,50 - 3,49) | 1250 | 11,70 |
| 25+25+42 | 2,22 | 2,22 | 3,56 | | 8,00 (3,00 - 8,60) | 3,20 | | 2,50 (0,48 - 3,24) | 1250 | 11,90 | 2,61 | 2,61 | 4,18 | | 9,40 (3,20 - 10,50) | 3,78 | | 2,49 (0,50 - 3,54) | 1245 | 11,70 |
| 25+25+50 | 2,00 | 2,00 | 4,00 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 2,35 | 2,35 | 4,70 | | 9,40 (3,20 - 10,50) | 3,80 | | 2,48 (0,52 - 3,43) | 1238 | 11,60 |
| 25+25+71 | 1,67 | 1,67 | 4,66 | | 8,00 (3,00 - 9,00) | 3,40 | | 2,36 (0,52 - 3,19) | 1178 | 11,20 | 1,96 | 1,96 | 5,48 | | 9,40 (3,20 - 10,60) | 3,81 | | 2,47 (0,52 - 3,47) | 1233 | 11,60 |
| 25+35+35 | 2,24 | 2,88 | 2,88 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 2,64 | 3,38 | 3,38 | | 9,40 (3,20 - 10,50) | 3,81 | | 2,47 (0,49 - 3,45) | 1235 | 11,60 |
| 25+35+42 | 2,06 | 2,64 | 3,30 | | 8,00 (3,00 - 8,60) | 3,28 | | 2,44 (0,48 - 3,16) | 1220 | 11,60 | 2,42 | 3,10 | 3,88 | | 9,40 (3,20 - 10,50) | 3,82 | | 2,46 (0,49 - 3,44) | 1230 | 11,60 |
| 25+35+50 | 1,87 | 2,39 | 3,74 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,12) | 1178 | 11,20 | 2,20 | 2,81 | 4,39 | | 9,40 (3,20 - 10,50) | 3,83 | | 2,46 (0,52 - 3,39) | 1228 | 11,50 |
| 25+35+71 | 1,57 | 2,02 | 4,41 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 1,85 | 2,37 | 5,18 | | 9,40 (3,20 - 10,60) | 3,86 | | 2,44 (0,53 - 3,44) | 1218 | 11,40 |
| 25+42+42 | 1,90 | 3,05 | 3,05 | | 8,00 (3,00 - 8,80) | 3,28 | | 2,44 (0,48 - 3,24) | 1220 | 11,60 | 2,24 | 3,58 | 3,58 | | 9,40 (3,20 - 10,50) | 3,84 | | 2,45 (0,49 - 3,42) | 1225 | 11,50 |
| 25+42+50 | 1,74 | 2,78 | 3,48 | | 8,00 (3,00 - 8,80) | 3,40 | | 2,36 (0,52 - 3,04) | 1178 | 11,20 | 2,04 | 3,27 | 4,09 | | 9,40 (3,20 - 10,60) | 3,84 | | 2,45 (0,53 - 3,44) | 1223 | 11,50 |
| 25+42+71 | 1,48 | 2,37 | 4,15 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 1,74 | 2,79 | 4,87 | | 9,40 (3,20 - 10,60) | 3,86 | | 2,44 (0,53 - 3,43) | 1218 | 11,40 |
| 25+50+50 | 1,60 | 3,20 | 3,20 | | 8,00 (3,00 - 9,00) | 3,42 | | 2,34 (0,57 - 3,07) | 1170 | 11,10 | 1,88 | 3,76 | 3,76 | | 9,40 (3,20 - 10,60) | 3,82 | | 2,46 (0,60 - 3,41) | 1230 | 11,60 |
| 35+35+35 | 2,66 | 2,66 | 2,66 | | 7,98 (3,00 - 8,60) | 3,35 | | 2,38 (0,48 - 3,09) | 1190 | 11,30 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,50) | 3,85 | | 2,44 (0,49 - 3,41) | 1220 | 11,50 |
| 35+35+42 | 2,46 | 2,46 | 3,08 | | 8,00 (3,00 - 8,80) | 3,36 | | 2,38 (0,48 - 3,24) | 1190 | 11,30 | 2,89 | 2,89 | 3,62 | | 9,40 (3,20 - 10,50) | 3,87 | | 2,43 (0,49 - 3,40) | 1215 | 11,40 |
| 35+35+50 | 2,25 | 2,25 | 3,50 | | 8,00 (3,00 - 8,80) | 3,49 | | 2,30 (0,52 - 3,04) | 1148 | 10,90 | 2,64 | 2,64 | 4,12 | | 9,40 (3,20 - 10,60) | 3,88 | | 2,43 (0,53 - 3,42) | 1213 | 11,40 |
| 35+35+71 | 1,91 | 1,91 | 4,18 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 2,24 | 2,24 | 4,92 | | 9,40 (3,20 - 10,60) | 3,89 | | 2,42 (0,53 - 3,41) | 1208 | 11,30 |
| 35+42+42 | 2,28 | 2,86 | 2,86 | | 8,00 (3,00 - 8,80) | 3,36 | | 2,38 (0,48 - 3,16) | 1190 | 11,30 | 2,68 | 3,36 | 3,36 | | 9,40 (3,20 - 10,60) | 3,88 | | 2,42 (0,49 - 3,45) | 1210 | 11,40 |
| 35+42+50 | 2,10 | 2,62 | 3,28 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 2,47 | 3,08 | 3,85 | | 9,40 (3,20 - 10,60) | 3,89 | | 2,42 (0,53 - 3,41) | 1208 | 11,30 |
| 35+50+50 | 1,94 | 3,03 | 3,03 | | 8,00 (3,00 - 9,00) | 3,42 | | 2,34 (0,57 - 3,07) | 1170 | 11,10 | 2,28 | 3,56 | 3,56 | | 9,40 (3,20 - 10,60) | 3,85 | | 2,44 (0,62 - 3,38) | 1220 | 11,50 |
| 42+42+42 | 2,66 | 2,66 | 2,66 | | 7,98 (3,00 - 9,00) | 3,35 | | 2,38 (0,48 - 3,31) | 1190 | 11,30 | 3,13 | 3,13 | 3,13 | | 9,39 (3,20 - 10,60) | 3,90 | | 2,41 (0,49 - 3,43) | 1205 | 11,30 |
| 42+42+50 | 2,46 | 2,46 | 3,08 | | 8,00 (3,00 - 9,00) | 3,49 | | 2,30 (0,52 - 3,12) | 1148 | 10,90 | 2,89 | 2,89 | 3,62 | | 9,40 (3,20 - 10,60) | 3,89 | | 2,42 (0,56 - 3,40) | 1208 | 11,30 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | 6,40 (3,00 - 9,20) | 3,62 | | 1,77 (0,52 - 3,23) | 885 | 8,40 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 3,92 | | 2,40 (0,70 - 3,39) | 1200 | 11,30 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | 6,80 (3,00 - 9,20) | 3,64 | | 1,87 (0,52 - 3,15) | 935 | 8,90 | 2,21 | 2,21 | 2,21 | 2,77 | 9,40 (4,20 - 10,60) | 3,93 | | 2,39 (0,70 - 3,38) | 1195 | 11,20 |
| 16+16+16+25 | 1,60 | 1,60 | 1,60 | 2,50 | 7,30 (3,00 - 9,20) | 3,58 | | 2,04 (0,52 - 3,15) | 1020 | 9,70 | 2,06 | 2,06 | 2,06 | 3,22 | 9,40 (4,20 - 10,60) | 3,93 | | 2,39 (0,70 - 3,38) | 1195 | 11,20 |
| 16+16+16+35 | 1,60 | 1,60 | 1,60 | 3,20 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,88 | 1,88 | 1,88 | 3,76 | 9,40 (4,20 - 10,60) | 3,97 | | 2,37 (0,70 - 3,34) | 1185 | 11,10 |
| 16+16+16+42 | 1,45 | 1,45 | 1,45 | 3,65 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,71 | 1,71 | 1,71 | 4,27 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,33) | 1180 | 11,10 |
| 16+16+16+50 | 1,31 | 1,31 | 1,31 | 4,07 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,12) | 1128 | 10,70 | 1,53 | 1,53 | 1,53 | 4,81 | 9,40 (4,20 - 10,60) | 3,86 | | 2,44 (0,78 - 3,32) | 1218 | 11,40 |
| 16+16+16+71 | 1,08 | 1,08 | 1,08 | 4,76 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,05) | 1128 | 10,70 | 1,27 | 1,27 | 1,27 | 5,59 | 9,40 (4,20 - 10,60) | 3,88 | | 2,43 (0,79 - 3,31) | 1213 | 11,40 |
| 16+16+20+20 | 1,60 | 1,60 | 2,00 | 2,00 | 7,20 (3,00 - 9,20) | 3,64 | | 1,98 (0,53 - 3,15) | 990 | 9,40 | 2,09 | 2,09 | 2,61 | 2,61 | 9,40 (4,20 - 10,60) | 3,95 | | 2,38 (0,70 - 3,36) | 1190 | 11,20 |
| 16+16+20+25 | 1,60 | 1,60 | 2,00 | 2,50 | 7,70 (3,00 - 9,20) | 3,60 | | 2,14 (0,53 - 3,15) | 1070 | 10,20 | 1,95 | 1,95 | 2,44 | 3,06 | 9,40 (4,20 - 10,60) | 3,95 | | 2,38 (0,70 - 3,36) | 1190 | 11,20 |
| 16+16+20+35 | 1,52 | 1,52 | 1,90 | 3,06 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,53 - 3,15) | 1100 | 10,40 | 1,79 | 1,79 | 2,24 | 3,58 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,33) | 1180 | 11,10 |
| 16+16+20+42 | 1,39 | 1,39 | 1,74 | 3,48 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,56 - 3,15) | 1100 | 10,40 | 1,63 | 1,63 | 2,04 | 4,10 | 9,40 (4,20 - 10,60) | 4,00 | | 2,35 (0,73 - 3,32) | 1175 | 11,00 |
| 16+16+20+50 | 1,25 | 1,25 | 1,57 | 3,93 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,47 | 1,47 | 1,84 | 4,62 | 9,40 (4,20 - 10,60) | 3,88 | | 2,43 (0,78 - 3,31) | 1213 | 11,40 |
| 16+16+20+71 | 1,05 | 1,05 | 1,31 | 4,59 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,05) | 1128 | 10,70 | 1,23 | 1,23 | 1,54 | 5,40 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,36) | 1208 | 11,30 |
| 16+16+25+25 | 1,56 | 1,56 | 2,44 | 2,44 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,83 | 1,83 | 2,87 | 2,87 | 9,40 (4,20 - 10,60) | 3,95 | | 2,38 (0,70 - 3,36) | 1190 | 11,20 |
| 16+16+25+35 | 1,44 | 1,44 | 2,24 | 2,88 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,53 - 3,15) | 1100 | 10,40 | 1,69 | 1,69 | 2,64 | 3,38 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,33) | 1180 | 11,10 |
| 16+16+25+42 | 1,32 | 1,32 | 2,06 | 3,30 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,56 - 3,15) | 1100 | 10,40 | 1,55 | 1,55 | 2,42 | 3,88 | 9,40 (4,20 - 10,60) | 4,00 | | 2,35 (0,73 - 3,32) | 1175 | 11,00 |
| 16+16+25+50 | 1,20 | 1,20 | 1,86 | 3,74 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,41 | 1,41 | 2,19 | 4,39 | 9,40 (4,20 - 10,60) | 3,88 | | 2,43 (0,78 - 3,31) | 1213 | 11,40 |
| 16+16+25+71 | 1,01 | 1,01 | 1,57 | 4,41 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,05) | 1128 | 10,70 | 1,18 | 1,18 | 1,85 | 5,19 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,36) | 1208 | 11,30 |
| 16+16+35+35 | 1,33 | 1,33 | 2,67 | 2,67 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,57 | 1,57 | 3,13 | 3,13 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,30) | 1170 | 11,00 |
| 16+16+35+42 | 1,23 | 1,23 | 2,46 | 3,08 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,45 | 1,45 | 2,88 | 3,62 | 9,40 (4,20 - 10,60) | 4,03 | | 2,33 (0,74 - 3,29) | 1165 | 10,90 |
| 16+16+35+50 | 1,12 | 1,12 | 2,25 | 3,51 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,05) | 1128 | 10,70 | 1,32 | 1,32 | 2,64 | 4,12 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,82 - 3,35) | 1208 | 11,30 |
| 16+16+35+71 | 0,96 | 0,96 | 1,90 | 4,18 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,12 | 1,12 | 2,24 | 4,92 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |
| 16+16+42+42 | 1,14 | 1,14 | 2,86 | 2,86 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,34 | 1,34 | 3,36 | 3,36 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 16+16+42+50 | 1,05 | 1,05 | 2,62 | 3,28 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,05) | 1128 | 10,70 | 1,23 | 1,23 | 3,08 | 3,86 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |
| 16+16+50+50 | 0,97 | 0,97 | 3,03 | 3,03 | 8,00 (3,00 - 9,20) | 3,38 | | 2,37 (0,69 - 3,09) | 1185 | 11,20 | 1,14 | 1,14 | 3,56 | 3,56 | 9,40 (4,20 - 10,60) | 3,69 | | 2,55 (0,95 - 3,41) | 1275 | 12,00 |
| 16+20+20+20 | 1,60 | 2,00 | 2,00 | 2,00 | 7,60 (3,00 - 9,20) | 3,53 | | 2,15 (0,53 - 3,15) | 1075 | 10,20 | 1,99 | 2,47 | 2,47 | 2,47 | 9,40 (4,20 - 10,60) | 3,97 | | 2,37 (0,70 - 3,35) | 1185 | 11,10 |
| 16+20+20+25 | 1,57 | 1,98 | 1,98 | 2,47 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,86 | 2,32 | 2,32 | 2,90 | 9,40 (4,20 - 10,60) | 3,97 | | 2,37 (0,70 - 3,35) | 1185 | 11,10 |
| 16+20+20+35 | 1,45 | 1,82 | 1,82 | 2,91 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,70 | 2,14 | 2,14 | 3,42 | 9,40 (4,20 - 10,60) | 4,00 | | 2,35 (0,73 - 3,32) | 1175 | 11,00 |
| 16+20+20+42 | 1,33 | 1,67 | 1,67 | 3,33 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,56 | 1,96 | 1,96 | 3,92 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 16+20+20+50 | 1,21 | 1,51 | 1,51 | 3,77 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,42 | 1,77 | 1,77 | 4,44 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,36) | 1208 | 11,30 |
| 16+20+20+71 | 1,02 | 1,27 | 1,27 | 4,44 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,19 | 1,49 | 1,49 | 5,23 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,82 - 3,35) | 1208 | 11,30 |
| 16+20+25+25 | 1,48 | 1,86 | 2,33 | 2,33 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,75 | 2,19 | 2,73 | 2,73 | 9,40 (4,20 - 10,60) | 3,97 | | 2,37 (0,70 - 3,35) | 1185 | 11,10 |
| 16+20+25+35 | 1,38 | 1,72 | 2,15 | 2,75 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,62 | 2,02 | 2,53 | 3,23 | 9,40 (4,20 - 10,60) | 4,00 | | 2,35 (0,73 - 3,32) | 1175 | 11,00 |
| 16+20+25+42 | 1,27 | 1,58 | 1,98 | 3,17 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,49 | 1,86 | 2,33 | 3,72 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 16+20+25+50 | 1,15 | 1,44 | 1,80 | 3,61 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,35 | 1,69 | 2,12 | 4,24 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,36) | 1208 | 11,30 |
| 16+20+25+71 | 0,98 | 1,22 | 1,53 | 4,27 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,15 | 1,44 | 1,79 | 5,02 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,82 - 3,35) | 1208 | 11,30 |
| 16+20+35+35 | 1,28 | 1,60 | 2,56 | 2,56 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,50 | 1,88 | 3,01 | 3,01 | 9,40 (4,20 - 10,60) | 4,03 | | 2,33 (0,74 - 3,29) | 1165 | 10,90 |
| 16+20+35+42 | 1,19 | 1,48 | 2,37 | 2,96 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,39 | 1,74 | 2,79 | 3,48 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 16+20+35+50 | 1,08 | 1,36 | 2,17 | 3,39 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,27 | 1,59 | 2,55 | 3,99 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |
| 16+20+42+42 | 1,10 | 1,38 | 2,76 | 2,76 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,30 | 1,62 | 3,24 | 3,24 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,27) | 1160 | 10,90 |
| 16+20+42+50 | 1,02 | 1,27 | 2,54 | 3,17 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,19 | 1,49 | 2,98 | 3,74 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,83 - 3,33) | 1203 | 11,30 |
| 16+20+50+50 | 0,94 | 1,18 | 2,94 | 2,94 | 8,00 (3,00 - 9,20) | 3,36 | | 2,38 (0,69 - 3,09) | 1190 | 11,30 | 1,10 | 1,38 | 3,46 | 3,46 | 9,40 (4,20 - 10,60) | 3,69 | | 2,55 (0,95 - 3,46) | 1275 | 12,00 |
| 16+25+25+25 | 1,40 | 2,20 | 2,20 | 2,20 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,66 | 2,58 | 2,58 | 2,58 | 9,40 (4,20 - 10,60) | 3,97 | | 2,37 (0,70 - 3,35) | 1185 | 11,10 |
| 16+25+25+35 | 1,31 | 2,04 | 2,04 | 2,61 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,53 | 2,40 | 2,40 | 3,07 | 9,40 (4,20 - 10,60) | 4,00 | | 2,35 (0,73 - 3,32) | 1175 | 11,00 |
| 16+25+25+42 | 1,20 | 1,89 | 1,89 | 3,02 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,41 | 2,22 | 2,22 | 3,55 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 16+25+25+50 | 1,10 | 1,72 | 1,72 | 3,46 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,29 | 2,03 | 2,03 | 4,05 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,36) | 1208 | 11,30 |
| 16+25+25+71 | 0,94 | 1,47 | 1,47 | 4,12 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,10 | 1,73 | 1,73 | 4,84 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,82 - 3,35) | 1208 | 11,30 |
| 16+25+35+35 | 1,22 | 1,90 | 2,44 | 2,44 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,43 | 2,25 | 2,86 | 2,86 | 9,40 (4,20 - 10,60) | 4,03 | | 2,33 (0,74 - 3,29) | 1165 | 10,90 |
| 16+25+35+42 | 1,13 | 1,77 | 2,27 | 2,83 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,33 | 2,08 | 2,66 | 3,33 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 16+25+35+50 | 1,04 | 1,63 | 2,08 | 3,25 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,22 | 1,91 | 2,45 | 3,82 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 4x1 CU-4E27PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 13,6 kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | D | Total (Min - Max) | W/W | | kW | kWh | 230V |
| 16+25+42+42 | 1,06 | 1,66 | 2,64 | 2,64 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,24 | 1,94 | 3,11 | 3,11 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,27) | 1160 | 10,90 |
| 16+25+42+50 | 0,98 | 1,53 | 2,44 | 3,05 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,15 | 1,79 | 2,87 | 3,59 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,83 - 3,33) | 1203 | 11,30 |
| 16+35+35+35 | 1,13 | 2,29 | 2,29 | 2,29 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,33 | 2,69 | 2,69 | 2,69 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,74 - 3,26) | 1155 | 10,90 |
| 16+35+35+42 | 1,07 | 2,13 | 2,13 | 2,67 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,25 | 2,51 | 2,51 | 3,13 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,77 - 3,25) | 1155 | 10,90 |
| 16+35+35+50 | 0,98 | 1,97 | 1,97 | 3,08 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,16 | 2,31 | 2,31 | 3,62 | 9,40 (4,20 - 10,60) | 3,86 | | 2,44 (0,86 - 3,32) | 1218 | 11,40 |
| 16+35+42+42 | 1,00 | 2,00 | 2,50 | 2,50 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,17 | 2,35 | 2,94 | 2,94 | 9,40 (4,20 - 10,60) | 4,09 | | 2,30 (0,77 - 3,24) | 1150 | 10,80 |
| 16+42+42+42 | 0,95 | 2,35 | 2,35 | 2,35 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,12 | 2,76 | 2,76 | 2,76 | 9,40 (4,20 - 10,60) | 4,10 | | 2,29 (0,77 - 3,23) | 1145 | 10,80 |
| 20+20+20+20 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 3,54 | 6,80 A++ | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 3,98 | 4,20 A+ | 2,36 (0,70 - 3,34) | 1180 | 11,10 |
| 20+20+20+25 | 1,88 | 1,88 | 1,88 | 2,36 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 2,21 | 2,21 | 2,21 | 2,77 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,34) | 1180 | 11,10 |
| 20+20+20+35 | 1,74 | 1,74 | 1,74 | 2,78 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 2,04 | 2,04 | 2,04 | 3,28 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 20+20+20+42 | 1,60 | 1,60 | 1,60 | 3,20 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,88 | 1,88 | 1,88 | 3,76 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,30) | 1170 | 11,00 |
| 20+20+20+50 | 1,45 | 1,45 | 1,45 | 3,65 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,71 | 1,71 | 1,71 | 4,27 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,35) | 1208 | 11,30 |
| 20+20+20+71 | 1,23 | 1,23 | 1,23 | 4,31 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,45 | 1,45 | 1,45 | 5,05 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |
| 20+20+25+25 | 1,78 | 1,78 | 2,22 | 2,22 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 2,09 | 2,09 | 2,61 | 2,61 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,34) | 1180 | 11,10 |
| 20+20+25+35 | 1,65 | 1,65 | 2,06 | 2,64 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,94 | 1,94 | 2,42 | 3,10 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 20+20+25+42 | 1,52 | 1,52 | 1,90 | 3,06 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,79 | 1,79 | 2,24 | 3,58 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,30) | 1170 | 11,00 |
| 20+20+25+50 | 1,39 | 1,39 | 1,74 | 3,48 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,63 | 1,63 | 2,04 | 4,10 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,35) | 1208 | 11,30 |
| 20+20+25+71 | 1,19 | 1,19 | 1,47 | 4,15 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,39 | 1,39 | 1,74 | 4,88 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,82 - 3,34) | 1203 | 11,30 |
| 20+20+35+35 | 1,54 | 1,54 | 2,46 | 2,46 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,81 | 1,81 | 2,89 | 2,89 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 20+20+35+42 | 1,43 | 1,43 | 2,28 | 2,86 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,68 | 1,68 | 2,68 | 3,36 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,27) | 1160 | 10,90 |
| 20+20+35+50 | 1,31 | 1,31 | 2,10 | 3,28 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,54 | 1,54 | 2,47 | 3,85 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,83 - 3,33) | 1203 | 11,30 |
| 20+20+42+42 | 1,33 | 1,33 | 2,67 | 2,67 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,57 | 1,57 | 3,13 | 3,13 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,74 - 3,26) | 1155 | 10,90 |
| 20+20+42+50 | 1,23 | 1,23 | 2,46 | 3,08 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,45 | 1,45 | 2,88 | 3,62 | 9,40 (4,20 - 10,60) | 3,86 | | 2,44 (0,83 - 3,32) | 1218 | 11,40 |
| 20+25+25+25 | 1,67 | 2,11 | 2,11 | 2,11 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 1,99 | 2,47 | 2,47 | 2,47 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,34) | 1180 | 11,10 |
| 20+25+25+35 | 1,57 | 1,96 | 1,96 | 2,51 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,84 | 2,30 | 2,30 | 2,96 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 20+25+25+42 | 1,45 | 1,82 | 1,82 | 2,91 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,70 | 2,14 | 2,14 | 3,42 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,30) | 1170 | 11,00 |
| 20+25+25+50 | 1,33 | 1,67 | 1,67 | 3,33 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,56 | 1,96 | 1,96 | 3,92 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,35) | 1208 | 11,30 |
| 20+25+35+35 | 1,47 | 1,83 | 2,35 | 2,35 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,72 | 2,16 | 2,76 | 2,76 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 20+25+35+42 | 1,36 | 1,71 | 2,19 | 2,74 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,61 | 2,01 | 2,57 | 3,21 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,27) | 1160 | 10,90 |
| 20+25+35+50 | 1,26 | 1,57 | 2,02 | 3,15 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,48 | 1,85 | 2,37 | 3,70 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,83 - 3,33) | 1203 | 11,30 |
| 20+25+42+42 | 1,28 | 1,60 | 2,56 | 2,56 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,50 | 1,88 | 3,01 | 3,01 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,74 - 3,26) | 1155 | 10,90 |
| 20+25+42+50 | 1,19 | 1,48 | 2,37 | 2,96 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,39 | 1,74 | 2,79 | 3,48 | 9,40 (4,20 - 10,60) | 3,86 | | 2,44 (0,83 - 3,32) | 1218 | 11,40 |
| 20+35+35+35 | 1,37 | 2,21 | 2,21 | 2,21 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,63 | 2,59 | 2,59 | 2,59 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,77 - 3,25) | 1155 | 10,90 |
| 20+35+35+42 | 1,29 | 2,06 | 2,06 | 2,59 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,51 | 2,43 | 2,43 | 3,03 | 9,40 (4,20 - 10,60) | 4,09 | | 2,30 (0,77 - 3,24) | 1150 | 10,80 |
| 20+35+35+50 | 1,19 | 1,91 | 1,91 | 2,99 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,40 | 2,24 | 2,24 | 3,52 | 9,40 (4,20 - 10,60) | 3,86 | | 2,44 (0,86 - 3,31) | 1218 | 11,40 |
| 20+35+42+42 | 1,21 | 1,95 | 2,42 | 2,42 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,42 | 2,28 | 2,85 | 2,85 | 9,40 (4,20 - 10,60) | 4,10 | | 2,29 (0,77 - 3,23) | 1145 | 10,80 |
| 25+25+25+25 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 3,54 | | 2,26 (0,53 - 3,15) | 1130 | 10,70 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 3,98 | | 2,36 (0,70 - 3,34) | 1180 | 11,10 |
| 25+25+25+35 | 1,87 | 1,87 | 1,87 | 2,39 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 2,20 | 2,20 | 2,20 | 2,80 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,31) | 1170 | 11,00 |
| 25+25+25+42 | 1,74 | 1,74 | 1,74 | 2,78 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 2,04 | 2,04 | 2,04 | 3,28 | 9,40 (4,20 - 10,60) | 4,02 | | 2,34 (0,73 - 3,30) | 1170 | 11,00 |
| 25+25+25+50 | 1,60 | 1,60 | 1,60 | 3,20 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,62 - 3,04) | 1128 | 10,70 | 1,88 | 1,88 | 1,88 | 3,76 | 9,40 (4,20 - 10,60) | 3,89 | | 2,42 (0,81 - 3,35) | 1208 | 11,30 |
| 25+25+35+35 | 1,75 | 1,75 | 2,25 | 2,25 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 2,06 | 2,06 | 2,64 | 2,64 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,28) | 1160 | 10,90 |
| 25+25+35+42 | 1,64 | 1,64 | 2,10 | 2,62 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,93 | 1,93 | 2,46 | 3,08 | 9,40 (4,20 - 10,60) | 4,05 | | 2,32 (0,74 - 3,27) | 1160 | 10,90 |
| 25+25+35+50 | 1,52 | 1,52 | 1,93 | 3,03 | 8,00 (3,00 - 9,20) | 3,55 | | 2,26 (0,63 - 3,05) | 1128 | 10,70 | 1,78 | 1,78 | 2,28 | 3,56 | 9,40 (4,20 - 10,60) | 3,91 | | 2,41 (0,83 - 3,33) | 1203 | 11,30 |
| 25+25+42+42 | 1,54 | 1,54 | 2,46 | 2,46 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,08) | 1100 | 10,40 | 1,81 | 1,81 | 2,89 | 2,89 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,74 - 3,26) | 1155 | 10,90 |
| 25+35+35+35 | 1,64 | 2,12 | 2,12 | 2,12 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,93 | 2,49 | 2,49 | 2,49 | 9,40 (4,20 - 10,60) | 4,07 | | 2,31 (0,77 - 3,25) | 1155 | 10,90 |
| 25+35+35+42 | 1,55 | 1,98 | 1,98 | 2,49 | 8,00 (3,00 - 9,20) | 3,64 | | 2,20 (0,57 - 3,00) | 1100 | 10,40 | 1,82 | 2,33 | 2,33 | 2,92 | 9,40 (4,20 - 10,60) | 4,09 | | 2,30 (0,77 - 3,24) | 1150 | 10,80 |
| 35+35+35+35 | 2,00 | 2,00 | 2,00 | 2,00 | 8,00 (3,00 - 9,20) | 3,72 | | 2,15 (0,58 - 3,00) | 1075 | 10,20 | 2,35 | 2,35 | 2,35 | 2,35 | 9,40 (4,20 - 10,60) | 4,03 | | 2,33 (0,78 - 3,22) | 1165 | 10,90 |
| 35+35+35+42 | 1,88 | 1,88 | 1,88 | 2,36 | 8,00 (3,00 - 9,20) | 3,72 | | 2,15 (0,58 - 3,00) | 1075 | 10,20 | 2,21 | 2,21 | 2,21 | 2,77 | 9,40 (4,20 - 10,60) | 4,03 | | 2,33 (0,78 - 3,21) | 1165 | 10,90 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh).
* EER, COP, SEER, SCOP, Input Power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | | | 1,60 (1,30 - 2,30) | 3,40 | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | | | 2,60 (1,20 - 3,20) | 3,88 | 0,67 (0,30 - 1,03) | 335 | 3,20 |
| 20 | 2,00 | | | | | 2,00 (1,80 - 2,90) | 3,51 | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | | | 3,20 (1,20 - 4,10) | 4,21 | 0,76 (0,30 - 1,25) | 380 | 3,70 |
| 25 | 2,50 | | | | | 2,50 (1,80 - 2,90) | 3,57 | 0,70 (0,34 - 0,88) | 350 | 3,40 | 3,60 | | | | | 3,60 (1,20 - 4,30) | 3,75 | 0,96 (0,30 - 1,25) | 480 | 4,80 |
| 35 | 3,20 | | | | | 3,20 (1,80 - 3,80) | 3,68 | 0,87 (0,34 - 1,43) | 435 | 4,20 | 4,50 | | | | | 4,50 (1,20 - 5,80) | 3,60 | 1,25 (0,30 - 2,12) | 625 | 6,10 |
| 42 | 4,00 | | | | | 4,00 (1,80 - 4,30) | 3,05 | 1,31 (0,34 - 2,06) | 655 | 6,10 | 5,60 | | | | | 5,60 (1,20 - 6,80) | 3,22 | 1,74 (0,30 - 2,95) | 870 | 8,10 |
| 50 | 5,00 | | | | | 5,00 (1,90 - 5,70) | 2,90 | 1,73 (0,34 - 2,31) | 863 | 8,00 | 6,80 | | | | | 6,80 (1,20 - 6,90) | 3,16 | 2,15 (0,30 - 2,57) | 1075 | 9,90 |
| 71 | 7,00 | | | | | 7,00 (2,00 - 7,20) | 2,63 | 2,67 (0,37 - 2,95) | 1333 | 12,10 | 8,70 | | | | | 8,70 (1,40 - 9,20) | 3,35 | 2,60 (0,68 - 2,77) | 1300 | 12,00 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | | | 3,20 (2,40 - 5,80) | 3,68 | 0,87 (0,30 - 2,06) | 435 | 4,20 | 2,35 | 2,35 | | | | 4,70 (2,00 - 8,20) | 3,05 | 1,54 (0,26 - 2,92) | 770 | 7,30 |
| 16 + 20 | 1,60 | 2,00 | | | | 3,60 (2,40 - 5,80) | 3,56 | 1,01 (0,30 - 2,06) | 505 | 4,80 | 2,31 | 2,89 | | | | 5,20 (2,00 - 8,20) | 3,11 | 1,67 (0,25 - 2,86) | 835 | 7,90 |
| 16 + 25 | 1,60 | 2,50 | | | | 4,10 (2,40 - 5,80) | 3,39 | 1,21 (0,30 - 2,06) | 605 | 5,70 | 2,19 | 3,41 | | | | 5,60 (2,00 - 8,20) | 3,08 | 1,82 (0,25 - 2,86) | 910 | 8,60 |
| 16 + 35 | 1,60 | 3,20 | | | | 4,80 (2,40 - 5,80) | 3,24 | 1,48 (0,30 - 2,00) | 740 | 6,90 | 2,13 | 4,27 | | | | 6,40 (2,00 - 8,20) | 3,14 | 2,04 (0,24 - 2,78) | 1020 | 9,60 |
| 16 + 42 | 1,60 | 4,00 | | | | 5,60 (2,40 - 5,80) | 3,08 | 1,82 (0,30 - 1,94) | 910 | 8,40 | 2,11 | 5,29 | | | | 7,40 (2,00 - 8,60) | 3,11 | 2,38 (0,24 - 2,89) | 1190 | 11,20 |
| 16 + 50 | 1,60 | 5,00 | | | | 6,60 (2,40 - 7,20) | 2,90 | 2,28 (0,28 - 2,61) | 1138 | 10,50 | 2,06 | 6,44 | | | | 8,50 (2,00 - 11,00) | 3,21 | 2,65 (0,19 - 3,63) | 1325 | 12,50 |
| 16 + 71 | 1,60 | 7,00 | | | | 8,60 (2,50 - 9,10) | 2,45 | 3,51 (0,31 - 3,74) | 1753 | 16,20 | 1,90 | 8,30 | | | | 10,20 (2,00 - 13,00) | 3,19 | 3,20 (0,19 - 4,54) | 1600 | 15,00 |
| 20 + 20 | 2,00 | 2,00 | | | | 4,00 (2,40 - 5,80) | 3,48 | 1,15 (0,30 - 2,00) | 575 | 5,40 | 2,90 | 2,90 | | | | 5,80 (2,00 - 8,20) | 3,20 | 1,81 (0,25 - 2,80) | 905 | 8,50 |
| 20 + 25 | 2,00 | 2,50 | | | | 4,50 (2,40 - 5,80) | 3,26 | 1,38 (0,30 - 2,00) | 690 | 6,40 | 2,71 | 3,39 | | | | 6,10 (2,00 - 8,20) | 3,19 | 1,91 (0,25 - 2,80) | 955 | 9,00 |
| 20 + 35 | 2,00 | 3,20 | | | | 5,20 (2,40 - 5,80) | 3,25 | 1,60 (0,30 - 1,94) | 800 | 7,50 | 2,65 | 4,25 | | | | 6,90 (2,00 - 8,60) | 3,25 | 2,12 (0,24 - 2,84) | 1060 | 10,00 |
| 20 + 42 | 2,00 | 4,00 | | | | 6,00 (2,40 - 6,70) | 2,91 | 2,06 (0,30 - 2,50) | 1030 | 9,50 | 2,63 | 5,27 | | | | 7,90 (2,00 - 10,10) | 3,12 | 2,53 (0,23 - 3,53) | 1265 | 11,90 |
| 20 + 50 | 2,00 | 5,00 | | | | 7,00 (2,40 - 8,10) | 2,91 | 2,41 (0,28 - 3,14) | 1203 | 11,10 | 2,57 | 6,43 | | | | 9,00 (2,00 - 11,00) | 3,36 | 2,68 (0,19 - 3,51) | 1340 | 12,60 |
| 20 + 71 | 2,00 | 7,00 | | | | 9,00 (2,50 - 10,00) | 2,43 | 3,71 (0,31 - 4,71) | 1853 | 17,10 | 2,38 | 8,32 | | | | 10,70 (2,00 - 13,00) | 3,28 | 3,26 (0,19 - 4,48) | 1630 | 15,30 |
| 25 + 25 | 2,50 | 2,50 | | | | 5,00 (2,40 - 5,80) | 3,23 | 1,55 (0,30 - 2,00) | 775 | 7,20 | 3,25 | 3,25 | | | | 6,50 (2,00 - 8,60) | 3,25 | 2,00 (0,25 - 2,92) | 1000 | 9,40 |
| 25 + 35 | 2,50 | 3,20 | | | | 5,70 (2,40 - 6,70) | 3,03 | 1,88 (0,30 - 2,50) | 940 | 8,70 | 3,20 | 4,10 | | | | 7,30 (2,00 - 10,10) | 3,20 | 2,28 (0,24 - 3,53) | 1140 | 10,70 |
| 25 + 42 | 2,50 | 4,00 | | | | 6,50 (2,40 - 7,20) | 2,74 | 2,37 (0,30 - 2,90) | 1185 | 10,90 | 3,19 | 5,11 | | | | 8,30 (2,00 - 11,00) | 3,07 | 2,70 (0,23 - 3,76) | 1350 | 12,70 |
| 25 + 50 | 2,50 | 5,00 | | | | 7,50 (2,40 - 8,60) | 2,74 | 2,74 (0,28 - 3,58) | 1368 | 12,60 | 3,13 | 6,27 | | | | 9,40 (2,00 - 11,00) | 3,24 | 2,90 (0,19 - 3,51) | 1450 | 13,60 |
| 25 + 71 | 2,50 | 7,00 | | | | 9,50 (2,50 - 10,10) | 2,30 | 4,13 (0,31 - 4,84) | 2063 | 19,00 | 2,92 | 8,18 | | | | 11,10 (2,00 - 13,00) | 3,33 | 3,33 (0,19 - 4,48) | 1665 | 15,60 |
| 35 + 35 | 3,20 | 3,20 | | | | 6,40 (2,40 - 7,20) | 2,86 | 2,24 (0,29 - 2,76) | 1120 | 10,30 | 4,05 | 4,05 | | | | 8,10 (2,00 - 11,00) | 3,15 | 2,57 (0,23 - 3,75) | 1285 | 12,10 |
| 35 + 42 | 3,20 | 4,00 | | | | 7,20 (2,40 - 8,10) | 2,61 | 2,76 (0,29 - 3,53) | 1380 | 12,70 | 4,04 | 5,06 | | | | 9,10 (2,00 - 11,00) | 3,12 | 2,92 (0,23 - 3,68) | 1460 | 13,70 |
| 35 + 50 | 3,20 | 5,00 | | | | 8,20 (2,50 - 9,10) | 2,62 | 3,14 (0,31 - 3,74) | 1568 | 14,50 | 3,98 | 6,22 | | | | 10,20 (2,00 - 11,90) | 3,33 | 3,06 (0,18 - 3,82) | 1530 | 14,40 |
| 35 + 71 | 3,14 | 6,86 | | | | 10,00 (2,50 - 10,40) | 2,24 | 4,47 (0,31 - 4,84) | 2233 | 20,60 | 3,76 | 8,24 | | | | 12,00 (2,00 - 13,80) | 3,35 | 3,58 (0,18 - 4,84) | 1790 | 16,80 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 42 + 42 | 4,00 | 4,00 | | | | 8,00 (2,50 - 8,60) | 2,37 | 3,38 (0,32 - 4,07) | 1690 | 15,60 | 5,05 | 5,05 | | | | 10,10 (2,00 - 11,90) | 3,10 | 3,26 (0,22 - 4,08) | 1630 | 15,30 |
| 42 + 50 | 4,00 | 5,00 | | | | 9,00 (2,50 - 10,00) | 2,43 | 3,71 (0,31 - 4,71) | 1853 | 17,10 | 4,98 | 6,22 | | | | 11,20 (2,00 - 13,00) | 3,51 | 3,19 (0,18 - 4,38) | 1595 | 15,00 |
| 42 + 60 | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 42 + 71 | 3,64 | 6,36 | | | | 10,00 (2,50 - 10,40) | 2,28 | 4,40 (0,31 - 4,84) | 2198 | 20,30 | 4,36 | 7,64 | | | | 12,00 (2,00 - 13,80) | 3,37 | 3,56 (0,18 - 4,84) | 1780 | 16,70 |
| 50 + 50 | 5,00 | 5,00 | | | | 10,00 (2,50 - 10,40) | 2,53 | 3,96 (0,30 - 4,35) | 1980 | 18,30 | 6,00 | 6,00 | | | | 12,00 (2,00 - 13,80) | 3,57 | 3,36 (0,20 - 4,60) | 1680 | 15,80 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 50 + 71 | 4,17 | 5,83 | | | | 10,00 (2,50 - 10,40) | 2,62 | 3,82 (0,30 - 4,20) | 1910 | 17,60 | 5,00 | 7,00 | | | | 12,00 (2,00 - 13,80) | 3,59 | 3,34 (0,20 - 4,58) | 1670 | 15,70 |
| 71 + 71 | 5,00 | 5,00 | | | | 10,00 (2,50 - 10,40) | 2,72 | 3,67 (0,33 - 4,04) | 1835 | 16,90 | 6,00 | 6,00 | | | | 12,00 (2,00 - 13,80) | 3,60 | 3,33 (0,20 - 4,56) | 1665 | 15,60 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | | | 4,80 (2,90 - 8,50) | 3,66 | 1,31 (0,36 - 3,10) | 655 | 6,10 | 2,33 | 2,33 | 2,33 | | | 6,99 (2,70 - 12,30) | 3,53 | 1,98 (0,27 - 4,11) | 990 | 9,30 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | | | 5,20 (2,90 - 8,50) | 3,64 | 1,43 (0,36 - 3,10) | 715 | 6,70 | 2,34 | 2,34 | 2,92 | | | 7,60 (2,70 - 12,30) | 3,50 | 2,17 (0,27 - 4,05) | 1085 | 10,20 |
| 16 + 16 + 25 | 1,60 | 1,60 | 2,50 | | | 5,70 (2,90 - 8,50) | 3,48 | 1,64 (0,36 - 3,10) | 820 | 7,60 | 2,22 | 2,22 | 3,46 | | | 7,90 (2,70 - 12,30) | 3,46 | 2,28 (0,27 - 4,05) | 1140 | 10,70 |
| 16 + 16 + 35 | 1,60 | 1,60 | 3,20 | | | 6,40 (2,90 - 8,50) | 3,32 | 1,93 (0,36 - 3,03) | 965 | 8,90 | 2,18 | 2,18 | 4,34 | | | 8,70 (2,70 - 12,30) | 3,49 | 2,49 (0,27 - 3,95) | 1245 | 11,70 |
| 16 + 16 + 42 | 1,60 | 1,60 | 4,00 | | | 7,20 (2,90 - 8,50) | 3,21 | 2,24 (0,39 - 2,96) | 1120 | 10,30 | 2,16 | 2,16 | 5,38 | | | 9,70 (2,70 - 12,30) | 3,32 | 2,92 (0,27 - 3,94) | 1460 | 13,70 |
| 16 + 16 + 50 | 1,60 | 1,60 | 5,00 | | | 8,20 (2,90 - 8,70) | 3,09 | 2,66 (0,39 - 2,85) | 1328 | 12,20 | 2,11 | 2,11 | 6,58 | | | 10,80 (2,70 - 12,90) | 3,70 | 2,92 (0,29 - 4,06) | 1460 | 13,70 |
| 16 + 16 + 71 | 1,57 | 1,57 | 6,86 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 1,88 | 1,88 | 8,24 | | | 12,00 (2,70 - 13,60) | 3,58 | 3,35 (0,29 - 4,37) | 1675 | 15,70 |
| 16 + 20 + 20 | 1,60 | 2,00 | 2,00 | | | 5,60 (2,90 - 8,50) | 3,52 | 1,59 (0,36 - 3,03) | 795 | 7,40 | 2,32 | 2,89 | 2,89 | | | 8,10 (2,70 - 12,30) | 3,57 | 2,27 (0,27 - 3,99) | 1135 | 10,70 |
| 16 + 20 + 25 | 1,60 | 2,00 | 2,50 | | | 6,10 (2,90 - 8,50) | 3,37 | 1,81 (0,36 - 3,03) | 905 | 8,30 | 2,23 | 2,79 | 3,48 | | | 8,50 (2,70 - 12,30) | 3,43 | 2,48 (0,27 - 3,99) | 1240 | 11,70 |
| 16 + 20 + 35 | 1,60 | 2,00 | 3,20 | | | 6,80 (2,90 - 8,50) | 3,32 | 2,05 (0,39 - 2,96) | 1025 | 9,50 | 2,18 | 2,74 | 4,38 | | | 9,30 (2,70 - 12,30) | 3,52 | 2,64 (0,27 - 3,89) | 1320 | 12,40 |
| 16 + 20 + 42 | 1,60 | 2,00 | 4,00 | | | 7,60 (2,90 - 8,50) | 3,13 | 2,43 (0,39 - 2,96) | 1215 | 11,20 | 2,17 | 2,71 | 5,42 | | | 10,30 (2,70 - 12,30) | 3,55 | 2,90 (0,27 - 3,87) | 1450 | 13,60 |
| 16 + 20 + 50 | 1,60 | 2,00 | 5,00 | | | 8,60 (2,90 - 9,60) | 3,01 | 2,86 (0,39 - 3,22) | 1428 | 13,20 | 2,10 | 2,63 | 6,57 | | | 11,30 (2,70 - 13,60) | 3,79 | 2,98 (0,29 - 4,33) | 1490 | 14,00 |
| 16 + 20 + 71 | 1,51 | 1,89 | 6,60 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 1,81 | 2,26 | 7,93 | | | 12,00 (2,70 - 13,80) | 3,65 | 3,29 (0,29 - 4,44) | 1645 | 15,50 |
| 16 + 25 + 25 | 1,60 | 2,50 | 2,50 | | | 6,60 (2,90 - 8,50) | 3,22 | 2,05 (0,36 - 3,03) | 1025 | 9,50 | 2,14 | 3,33 | 3,33 | | | 8,80 (2,70 - 12,30) | 3,51 | 2,51 (0,27 - 3,99) | 1255 | 11,80 |
| 16 + 25 + 35 | 1,60 | 2,50 | 3,20 | | | 7,30 (2,90 - 8,50) | 3,17 | 2,30 (0,39 - 2,96) | 1150 | 10,60 | 2,10 | 3,29 | 4,21 | | | 9,60 (2,70 - 12,30) | 3,42 | 2,81 (0,27 - 3,89) | 1405 | 13,20 |
| 16 + 25 + 42 | 1,60 | 2,50 | 4,00 | | | 8,10 (2,90 - 8,70) | 3,01 | 2,69 (0,39 - 3,02) | 1345 | 12,40 | 2,09 | 3,27 | 5,24 | | | 10,60 (2,70 - 12,90) | 3,46 | 3,06 (0,27 - 4,19) | 1530 | 14,40 |
| 16 + 25 + 50 | 1,60 | 2,50 | 5,00 | | | 9,10 (2,90 - 10,10) | 3,07 | 2,97 (0,39 - 3,57) | 1483 | 13,70 | 2,06 | 3,21 | 6,43 | | | 11,70 (2,70 - 13,60) | 3,73 | 3,14 (0,29 - 4,33) | 1570 | 14,80 |
| 16 + 25 + 71 | 1,44 | 2,25 | 6,31 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 1,73 | 2,70 | 7,57 | | | 12,00 (2,70 - 13,80) | 3,65 | 3,29 (0,29 - 4,44) | 1645 | 15,50 |
| 16 + 35 + 35 | 1,60 | 3,20 | 3,20 | | | 8,00 (2,90 - 8,50) | 3,14 | 2,55 (0,39 - 2,89) | 1275 | 11,80 | 2,08 | 4,16 | 4,16 | | | 10,40 (2,70 - 12,90) | 3,55 | 2,93 (0,26 - 4,17) | 1465 | 13,80 |
| 16 + 35 + 42 | 1,60 | 3,20 | 4,00 | | | 8,80 (2,90 - 9,60) | 2,91 | 3,02 (0,39 - 3,46) | 1510 | 13,90 | 2,07 | 4,15 | 5,18 | | | 11,40 (2,70 - 13,60) | 3,61 | 3,16 (0,28 - 4,56) | 1580 | 14,80 |
| 16 + 35 + 50 | 1,60 | 3,20 | 5,00 | | | 9,80 (2,90 - 10,70) | 2,98 | 3,29 (0,39 - 4,02) | 1643 | 15,10 | 1,96 | 3,92 | 6,12 | | | 12,00 (2,70 - 13,60) | 3,74 | 3,21 (0,29 - 4,29) | 1605 | 15,10 |
| 16 + 35 + 71 | 1,36 | 2,71 | 5,93 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,39 - 3,86) | 1678 | 15,50 | 1,63 | 3,25 | 7,12 | | | 12,00 (2,70 - 13,80) | 3,75 | 3,20 (0,31 - 4,40) | 1600 | 15,00 |
| 16 + 42 + 42 | 1,60 | 4,00 | 4,00 | | | 9,60 (2,90 - 10,10) | 2,83 | 3,39 (0,39 - 3,90) | 1695 | 15,60 | 2,00 | 5,00 | 5,00 | | | 12,00 (2,70 - 13,60) | 3,56 | 3,37 (0,28 - 4,47) | 1685 | 15,80 |
| 16 + 42 + 50 | 1,51 | 3,77 | 4,72 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 1,81 | 4,53 | 5,66 | | | 12,00 (2,70 - 13,80) | 3,75 | 3,20 (0,31 - 4,41) | 1600 | 15,00 |
| 16 + 42 + 71 | 1,27 | 3,17 | 5,56 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,42 - 3,86) | 1678 | 15,50 | 1,52 | 3,81 | 6,67 | | | 12,00 (2,70 - 13,80) | 3,76 | 3,19 (0,31 - 4,39) | 1595 | 15,00 |
| 16 + 50 + 50 | 1,38 | 4,31 | 4,31 | | | 10,00 (2,90 - 10,70) | 3,08 | 3,25 (0,43 - 3,67) | 1625 | 15,00 | 1,66 | 5,17 | 5,17 | | | 12,00 (2,70 - 13,80) | 3,87 | 3,10 (0,35 - 4,20) | 1550 | 14,60 |
| 16 + 50 + 71 | 1,17 | 3,68 | 5,15 | | | 10,00 (3,00 - 10,70) | 3,14 | 3,18 (0,46 - 3,60) | 1590 | 14,70 | 1,41 | 4,41 | 6,18 | | | 12,00 (2,70 - 14,10) | 3,88 | 3,09 (0,36 - 4,38) | 1545 | 14,50 |
| 16 + 71 + 71 | 1,02 | 4,49 | 4,49 | | | 10,00 (3,00 - 10,70) | 3,22 | 3,11 (0,46 - 3,53) | 1555 | 14,30 | 1,24 | 5,38 | 5,38 | | | 12,00 (2,70 - 14,40) | 3,90 | 3,08 (0,37 - 4,50) | 1540 | 14,50 |
| 20 + 20 + 20 | 2,00 | 2,00 | 2,00 | | | 6,00 (2,90 - 8,50) | 3,43 | 1,75 (0,36 - 3,03) | 875 | 8,10 | 2,87 | 2,87 | 2,87 | | | 8,61 (2,70 - 12,30) | 3,66 | 2,35 (0,27 - 3,92) | 1175 | 11,00 |
| 20 + 20 + 25 | 2,00 | 2,00 | 2,50 | | | 6,50 (2,90 - 8,50) | 3,27 | 1,99 (0,36 - 3,03) | 995 | 9,20 | 2,77 | 2,77 | 3,46 | | | 9,00 (2,70 - 12,30) | 3,59 | 2,51 (0,27 - 3,92) | 1255 | 11,80 |
| 20 + 20 + 35 | 2,00 | 2,00 | 3,20 | | | 7,20 (2,90 - 8,50) | 3,21 | 2,24 (0,39 - 2,96) | 1120 | 10,30 | 2,72 | 2,72 | 4,36 | | | 9,80 (2,70 - 12,30) | 3,50 | 2,80 (0,27 - 3,82) | 1400 | 13,20 |
| 20 + 20 + 42 | 2,00 | 2,00 | 4,00 | | | 8,00 (2,90 - 8,50) | 3,05 | 2,62 (0,39 - 2,96) | 1310 | 12,10 | 2,70 | 2,70 | 5,40 | | | 10,80 (2,70 - 12,90) | 3,65 | 2,96 (0,26 - 4,13) | 1480 | 13,90 |
| 20 + 20 + 50 | 2,00 | 2,00 | 5,00 | | | 9,00 (2,90 - 9,60) | 3,02 | 2,99 (0,39 - 3,22) | 1493 | 13,80 | 2,64 | 2,64 | 6,62 | | | 11,90 (2,70 - 13,60) | 3,73 | 3,19 (0,29 - 4,26) | 1595 | 15,00 |
| 20 + 20 + 60 | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20 + 20 + 71 | 1,82 | 1,82 | 6,36 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 3,94) | 1713 | 15,80 | 2,18 | 2,18 | 7,64 | | | 12,00 (2,70 - 13,80) | 3,79 | 3,17 (0,29 - 4,38) | 1585 | 14,90 |
| 20 + 25 + 25 | 2,00 | 2,50 | 2,50 | | | 7,00 (2,90 - 8,50) | 3,21 | 2,18 (0,36 - 3,03) | 1090 | 10,10 | 2,68 | 3,36 | 3,36 | | | 9,40 (2,70 - 12,30) | 3,52 | 2,67 (0,27 - 3,92) | 1335 | 12,50 |
| 20 + 25 + 35 | 2,00 | 2,50 | 3,20 | | | 7,70 (2,90 - 8,50) | 3,17 | 2,43 (0,39 - 2,96) | 1215 | 11,20 | 2,65 | 3,31 | 4,24 | | | 10,20 (2,70 - 12,90) | 3,54 | 2,88 (0,27 - 4,14) | 1440 | 13,50 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 20+25+42 | 2,00 | 2,50 | 4,00 | | | 8,50 (2,90 - 9,60) | 2,87 | 2,96 (0,39 - 3,53) | 1480 | 13,60 | 2,64 | 3,29 | 5,27 | | | 11,20 (2,70 - 13,60) | 3,71 | 3,02 (0,26 - 4,53) | 1510 | 14,20 |
| 20+25+50 | 2,00 | 2,50 | 5,00 | | | 9,50 (2,90 - 10,10) | 2,94 | 3,24 (0,39 - 3,57) | 1618 | 14,90 | 2,52 | 3,16 | 6,32 | | | 12,00 (2,70 - 13,60) | 3,70 | 3,24 (0,29 - 4,26) | 1620 | 15,20 |
| 20+25+60 | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+25+71 | 1,74 | 2,17 | 6,09 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 3,94) | 1713 | 15,80 | 2,09 | 2,61 | 7,30 | | | 12,00 (2,70 - 13,80) | 3,79 | 3,17 (0,29 - 4,38) | 1585 | 14,90 |
| 20+35+35 | 2,00 | 3,20 | 3,20 | | | 8,40 (2,90 - 8,70) | 2,98 | 2,82 (0,39 - 2,95) | 1410 | 13,00 | 2,62 | 4,19 | 4,19 | | | 11,00 (2,70 - 12,90) | 3,68 | 2,99 (0,28 - 4,11) | 1495 | 14,10 |
| 20+35+42 | 2,00 | 3,20 | 4,00 | | | 9,20 (2,90 - 10,10) | 2,88 | 3,20 (0,39 - 3,83) | 1600 | 14,80 | 2,61 | 4,17 | 5,22 | | | 12,00 (2,70 - 13,60) | 3,61 | 3,32 (0,28 - 4,42) | 1660 | 15,60 |
| 20+35+50 | 1,96 | 3,14 | 4,90 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 2,35 | 3,76 | 5,89 | | | 12,00 (2,70 - 13,60) | 3,81 | 3,15 (0,31 - 4,22) | 1575 | 14,80 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+35+71 | 1,64 | 2,62 | 5,74 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,42 - 3,86) | 1678 | 15,50 | 1,96 | 3,15 | 6,89 | | | 12,00 (2,70 - 13,80) | 3,82 | 3,14 (0,31 - 4,34) | 1570 | 14,80 |
| 20+42+42 | 2,00 | 4,00 | 4,00 | | | 10,00 (2,90 - 10,70) | 2,67 | 3,75 (0,39 - 4,53) | 1875 | 17,30 | 2,40 | 4,80 | 4,80 | | | 12,00 (2,70 - 13,60) | 3,63 | 3,31 (0,28 - 4,41) | 1655 | 15,60 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+42+50 | 1,81 | 3,64 | 4,55 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 3,94) | 1713 | 15,80 | 2,18 | 4,36 | 5,46 | | | 12,00 (2,70 - 13,80) | 3,82 | 3,14 (0,31 - 4,34) | 1570 | 14,80 |
| 20+42+71 | 1,54 | 3,08 | 5,38 | | | 10,00 (2,90 - 10,70) | 3,04 | 3,29 (0,42 - 3,86) | 1643 | 15,10 | 1,85 | 3,69 | 6,46 | | | 12,00 (2,70 - 14,10) | 3,85 | 3,12 (0,31 - 4,46) | 1560 | 14,70 |
| 20+50+50 | 1,66 | 4,17 | 4,17 | | | 10,00 (2,90 - 10,70) | 3,08 | 3,25 (0,43 - 3,67) | 1625 | 15,00 | 2,00 | 5,00 | 5,00 | | | 12,00 (2,70 - 13,80) | 3,95 | 3,04 (0,35 - 4,14) | 1520 | 14,30 |
| 20+50+71 | 1,43 | 3,57 | 5,00 | | | 10,00 (2,90 - 10,70) | 3,14 | 3,18 (0,46 - 3,60) | 1590 | 14,70 | 1,71 | 4,29 | 6,00 | | | 12,00 (2,70 - 14,10) | 3,96 | 3,03 (0,37 - 4,32) | 1515 | 14,20 |
| 20+71+71 | 1,24 | 4,38 | 4,38 | | | 10,00 (2,90 - 10,70) | 3,22 | 3,11 (0,46 - 3,53) | 1555 | 14,30 | 1,50 | 5,25 | 5,25 | | | 12,00 (2,70 - 14,40) | 3,91 | 3,07 (0,38 - 4,43) | 1535 | 14,40 |
| 25+25+25 | 2,50 | 2,50 | 2,50 | | | 7,50 (2,90 - 8,50) | 3,09 | 2,43 (0,36 - 3,03) | 1215 | 11,20 | 3,23 | 3,23 | 3,23 | | | 9,69 (2,70 - 12,30) | 3,41 | 2,84 (0,27 - 3,92) | 1420 | 13,30 |
| 25+25+35 | 2,50 | 2,50 | 3,20 | | | 8,20 (2,90 - 8,70) | 2,97 | 2,76 (0,39 - 3,02) | 1380 | 12,70 | 3,20 | 3,20 | 4,10 | | | 10,50 (2,70 - 12,90) | 3,55 | 2,96 (0,27 - 4,14) | 1480 | 13,90 |
| 25+25+42 | 2,50 | 2,50 | 4,00 | | | 9,00 (2,90 - 9,60) | 2,79 | 3,23 (0,39 - 3,53) | 1615 | 14,90 | 3,19 | 3,19 | 5,12 | | | 11,50 (2,70 - 13,60) | 3,62 | 3,18 (0,26 - 4,53) | 1590 | 14,90 |
| 25+25+50 | 2,50 | 2,50 | 5,00 | | | 10,00 (2,90 - 10,70) | 2,86 | 3,50 (0,39 - 4,09) | 1748 | 16,10 | 3,00 | 3,00 | 6,00 | | | 12,00 (2,70 - 13,60) | 3,70 | 3,24 (0,29 - 4,26) | 1620 | 15,20 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 25+25+71 | 2,08 | 2,08 | 5,84 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 3,94) | 1713 | 15,80 | 2,50 | 2,50 | 7,00 | | | 12,00 (2,70 - 13,80) | 3,79 | 3,17 (0,29 - 4,38) | 1585 | 14,90 |
| 25+35+35 | 2,50 | 3,20 | 3,20 | | | 8,90 (2,90 - 9,60) | 2,88 | 3,09 (0,39 - 3,46) | 1545 | 14,20 | 3,18 | 4,06 | 4,06 | | | 11,30 (2,70 - 13,60) | 3,70 | 3,05 (0,28 - 4,51) | 1525 | 14,30 |
| 25+35+42 | 2,50 | 3,20 | 4,00 | | | 9,70 (2,90 - 10,70) | 2,80 | 3,46 (0,39 - 4,53) | 1730 | 16,00 | 3,09 | 3,96 | 4,95 | | | 12,00 (2,70 - 13,60) | 3,61 | 3,32 (0,28 - 4,42) | 1660 | 15,60 |
| 25+35+50 | 2,34 | 2,99 | 4,67 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 4,02) | 1713 | 15,80 | 2,80 | 3,59 | 5,61 | | | 12,00 (2,70 - 13,80) | 3,81 | 3,15 (0,31 - 4,36) | 1575 | 14,80 |
| 25+35+71 | 1,97 | 2,52 | 5,51 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,42 - 3,86) | 1678 | 15,50 | 2,36 | 3,02 | 6,62 | | | 12,00 (2,70 - 14,10) | 3,82 | 3,14 (0,31 - 4,47) | 1570 | 14,80 |
| 25+42+42 | 2,38 | 3,81 | 3,81 | | | 10,00 (2,90 - 10,70) | 2,67 | 3,75 (0,39 - 4,53) | 1875 | 17,30 | 2,86 | 4,57 | 4,57 | | | 12,00 (2,70 - 13,80) | 3,63 | 3,31 (0,28 - 4,55) | 1655 | 15,60 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 25+42+50 | 2,17 | 3,48 | 4,35 | | | 10,00 (2,90 - 10,70) | 2,92 | 3,43 (0,39 - 3,94) | 1713 | 15,80 | 2,61 | 4,17 | 5,22 | | | 12,00 (2,70 - 13,80) | 3,82 | 3,14 (0,31 - 4,34) | 1570 | 14,80 |
| 25+42+71 | 1,85 | 2,96 | 5,19 | | | 10,00 (2,90 - 10,70) | 3,04 | 3,29 (0,42 - 3,86) | 1643 | 15,10 | 2,22 | 3,56 | 6,22 | | | 12,00 (2,70 - 14,10) | 3,85 | 3,12 (0,31 - 4,46) | 1560 | 14,70 |
| 25+50+50 | 2,00 | 4,00 | 4,00 | | | 10,00 (2,90 - 10,70) | 3,08 | 3,25 (0,43 - 3,67) | 1625 | 15,00 | 2,40 | 4,80 | 4,80 | | | 12,00 (2,70 - 13,80) | 3,95 | 3,04 (0,35 - 4,14) | 1520 | 14,30 |
| 25+50+71 | 1,72 | 3,45 | 4,83 | | | 10,00 (2,90 - 10,70) | 3,14 | 3,18 (0,46 - 3,60) | 1590 | 14,70 | 2,07 | 4,14 | 5,79 | | | 12,00 (2,70 - 14,10) | 3,96 | 3,03 (0,37 - 4,32) | 1515 | 14,20 |
| 25+71+71 | 1,52 | 4,24 | 4,24 | | | 10,00 (2,90 - 10,70) | 3,22 | 3,11 (0,46 - 3,53) | 1555 | 14,30 | 1,82 | 5,09 | 5,09 | | | 12,00 (2,70 - 14,40) | 3,91 | 3,07 (0,38 - 4,43) | 1535 | 14,40 |
| 35+35+35 | 3,20 | 3,20 | 3,20 | | | 9,60 (2,90 - 10,10) | 2,89 | 3,32 (0,39 - 3,75) | 1660 | 15,30 | 4,00 | 4,00 | 4,00 | | | 12,00 (2,70 - 13,60) | 3,64 | 3,30 (0,28 - 4,40) | 1650 | 15,50 |
| 35+35+42 | 3,08 | 3,08 | 3,84 | | | 10,00 (2,90 - 10,70) | 2,72 | 3,68 (0,39 - 4,37) | 1840 | 17,00 | 3,69 | 3,69 | 4,62 | | | 12,00 (2,70 - 13,60) | 3,66 | 3,28 (0,28 - 4,39) | 1640 | 15,40 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 35+35+50 | 2,81 | 2,81 | 4,38 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,39 - 3,86) | 1678 | 15,50 | 3,37 | 3,37 | 5,26 | | | 12,00 (2,70 - 13,80) | 3,85 | 3,12 (0,31 - 4,32) | 1560 | 14,70 |
| 35+35+71 | 2,39 | 2,39 | 5,22 | | | 10,00 (2,90 - 10,70) | 3,04 | 3,29 (0,42 - 3,79) | 1643 | 15,10 | 2,87 | 2,87 | 6,26 | | | 12,00 (2,70 - 14,10) | 3,86 | 3,11 (0,32 - 4,43) | 1555 | 14,60 |
| 35+42+42 | 2,86 | 3,57 | 3,57 | | | 10,00 (2,90 - 10,70) | 2,78 | 3,60 (0,39 - 4,37) | 1800 | 16,60 | 3,42 | 4,29 | 4,29 | | | 12,00 (2,70 - 13,80) | 3,67 | 3,27 (0,28 - 4,51) | 1635 | 15,40 |
| 35+42+50 | 2,62 | 3,28 | 4,10 | | | 10,00 (2,90 - 10,70) | 2,98 | 3,36 (0,42 - 3,86) | 1678 | 15,50 | 3,15 | 3,93 | 4,92 | | | 12,00 (2,70 - 13,80) | 3,86 | 3,11 (0,32 - 4,30) | 1555 | 14,60 |
| 35+42+71 | 2,25 | 2,82 | 4,93 | | | 10,00 (2,90 - 10,70) | 3,04 | 3,29 (0,42 - 3,79) | 1643 | 15,10 | 2,70 | 3,38 | 5,92 | | | 12,00 (2,70 - 14,10) | 3,88 | 3,09 (0,32 - 4,41) | 1545 | 14,50 |
| 35+50+50 | 2,42 | 3,79 | 3,79 | | | 10,00 (2,90 - 10,70) | 3,14 | 3,18 (0,46 - 3,60) | 1590 | 14,70 | 2,90 | 4,55 | 4,55 | | | 12,00 (2,70 - 14,10) | 3,91 | 3,07 (0,38 - 4,30) | 1535 | 14,40 |
| 35+50+71 | 2,10 | 3,29 | 4,61 | | | 10,00 (2,90 - 10,70) | 3,22 | 3,11 (0,46 - 3,53) | 1555 | 14,30 | 2,52 | 3,95 | 5,53 | | | 12,00 (2,70 - 14,40) | 3,93 | 3,05 (0,38 - 4,41) | 1525 | 14,30 |
| 35+71+71 | 1,86 | 4,07 | 4,07 | | | 10,00 (2,90 - 10,70) | 3,21 | 3,12 (0,47 - 3,53) | 1560 | 14,40 | 2,24 | 4,88 | 4,88 | | | 12,00 (2,70 - 14,40) | 3,95 | 3,04 (0,39 - 4,39) | 1520 | 14,30 |
| 42+42+42 | 3,33 | 3,33 | 3,33 | | | 9,99 (2,90 - 10,70) | 2,78 | 3,60 (0,39 - 4,29) | 1800 | 16,60 | 4,00 | 4,00 | 4,00 | | | 12,00 (2,70 - 13,80) | 3,68 | 3,26 (0,28 - 4,42) | 1630 | 15,30 |
| 42+42+50 | 3,08 | 3,08 | 3,84 | | | 10,00 (2,90 - 10,70) | 3,04 | 3,29 (0,42 - 3,86) | 1643 | 15,10 | 3,69 | 3,69 | 4,62 | | | 12,00 (2,70 - 14,10) | 3,87 | 3,10 (0,32 - 4,42) | 1550 | 14,60 |
| 42+42+71 | 2,67 | 2,67 | 4,66 | | | 10,00 (2,90 - 10,70) | 3,11 | 3,22 (0,42 - 3,72) | 1608 | 14,80 | 3,20 | 3,20 | 5,60 | | | 12,00 (2,70 - 14,40) | 3,90 | 3,08 (0,32 - 4,54) | 1540 | 14,50 |
| 42+50+50 | 2,86 | 3,57 | 3,57 | | | 10,00 (2,90 - 10,70) | 3,14 | 3,18 (0,46 - 3,60) | 1590 | 14,70 | 3,42 | 4,29 | 4,29 | | | 12,00 (2,70 - 14,10) | 3,92 | 3,06 (0,38 - 4,28) | 1530 | 14,40 |
| 42+50+71 | 2,49 | 3,13 | 4,38 | | | 10,00 (2,90 - 10,70) | 3,22 | 3,11 (0,46 - 3,53) | 1555 | 14,30 | 3,00 | 3,75 | 5,25 | | | 12,00 (2,70 - 14,40) | 3,95 | 3,04 (0,39 - 4,40) | 1520 | 14,30 |
| 50+50+50 | 3,33 | 3,33 | 3,33 | | | 9,99 (2,90 - 10,70) | 3,23 | 3,10 (0,51 - 3,50) | 1548 | 14,30 | 4,00 | 4,00 | 4,00 | | | 12,00 (2,70 - 14,40) | 3,96 | 3,03 (0,46 - 4,35) | 1515 | 14,20 |
| 50+50+71 | 2,94 | 2,94 | 4,12 | | | 10,00 (2,90 - 10,70) | 3,23 | 3,10 (0,51 - 3,50) | 1548 | 14,30 | 3,53 | 3,53 | 4,94 | | | 12,00 (2,70 - 14,40) | 3,97 | 3,02 (0,48 - 4,34) | 1510 | 14,20 |
| **4 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | | 6,40 (2,90 - 10,60) | 3,50 | 1,83 (0,42 - 4,13) | 915 | 8,40 | 2,88 | 2,88 | 2,88 | 2,88 | | 11,52 (3,40 - 14,20) | 3,65 | 3,16 (0,39 - 4,72) | 1580 | 14,80 |
| 16+16+16+20 | 1,60 | 1,60 | 1,60 | 2,00 | | 6,80 (2,90 - 10,60) | 3,43 | 1,98 (0,42 - 4,13) | 990 | 9,10 | 2,71 | 2,71 | 2,71 | 3,39 | | 11,52 (3,40 - 14,20) | 3,73 | 3,09 (0,39 - 4,65) | 1545 | 14,50 |
| 16+16+16+25 | 1,60 | 1,60 | 1,60 | 2,50 | | 7,30 (2,90 - 10,60) | 3,36 | 2,17 (0,42 - 4,13) | 1085 | 10,00 | 2,52 | 2,52 | 2,52 | 3,96 | | 11,52 (3,40 - 14,20) | 3,73 | 3,09 (0,39 - 4,65) | 1545 | 14,50 |
| 16+16+16+35 | 1,60 | 1,60 | 1,60 | 3,20 | | 8,00 (2,90 - 10,60) | 3,25 | 2,46 (0,42 - 4,05) | 1230 | 11,30 | 2,30 | 2,30 | 2,30 | 4,62 | | 11,52 (3,40 - 14,20) | 3,76 | 3,06 (0,39 - 4,61) | 1530 | 14,40 |
| 16+16+16+42 | 1,60 | 1,60 | 1,60 | 4,00 | | 8,80 (2,90 - 10,60) | 3,10 | 2,84 (0,42 - 4,05) | 1420 | 13,10 | 2,09 | 2,09 | 2,09 | 5,25 | | 11,52 (3,40 - 14,20) | 3,78 | 3,05 (0,40 - 4,60) | 1525 | 14,30 |
| 16+16+16+50 | 1,60 | 1,60 | 1,60 | 5,00 | | 9,80 (2,90 - 10,60) | 3,03 | 3,24 (0,47 - 3,83) | 1618 | 14,90 | 1,88 | 1,88 | 1,88 | 5,88 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,46 - 4,46) | 1485 | 14,00 |
| 16+16+16+71 | 1,36 | 1,36 | 1,36 | 5,92 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,56 | 1,56 | 1,56 | 6,84 | | 11,52 (3,40 - 14,20) | 3,89 | 2,96 (0,46 - 4,44) | 1480 | 13,90 |
| 16+16+20+20 | 1,60 | 1,60 | 2,00 | 2,00 | | 7,20 (2,90 - 10,60) | 3,43 | 2,10 (0,42 - 4,04) | 1050 | 9,70 | 2,56 | 2,56 | 3,20 | 3,20 | | 11,52 (3,40 - 14,20) | 3,80 | 3,03 (0,39 - 4,59) | 1515 | 14,20 |
| 16+16+20+25 | 1,60 | 1,60 | 2,00 | 2,50 | | 7,70 (2,90 - 10,60) | 3,30 | 2,33 (0,42 - 4,04) | 1165 | 10,70 | 2,39 | 2,39 | 2,99 | 3,75 | | 11,52 (3,40 - 14,20) | 3,80 | 3,03 (0,39 - 4,59) | 1515 | 14,20 |
| 16+16+20+35 | 1,60 | 1,60 | 2,00 | 3,20 | | 8,40 (2,90 - 10,60) | 3,24 | 2,59 (0,42 - 3,96) | 1295 | 11,90 | 2,19 | 2,19 | 2,74 | 4,40 | | 11,52 (3,40 - 14,20) | 3,84 | 3,00 (0,40 - 4,55) | 1500 | 14,10 |
| 16+16+20+42 | 1,60 | 1,60 | 2,00 | 4,00 | | 9,20 (2,90 - 10,60) | 3,05 | 3,02 (0,42 - 3,96) | 1510 | 13,90 | 2,00 | 2,00 | 2,50 | 5,02 | | 11,52 (3,40 - 14,20) | 3,85 | 2,99 (0,40 - 4,53) | 1495 | 14,10 |
| 16+16+20+50 | 1,57 | 1,57 | 1,96 | 4,90 | | 10,00 (2,90 - 10,60) | 2,95 | 3,39 (0,47 - 3,83) | 1693 | 15,60 | 1,81 | 1,81 | 2,25 | 5,65 | | 11,52 (3,40 - 14,20) | 3,96 | 2,91 (0,46 - 4,40) | 1455 | 13,70 |
| 16+16+20+71 | 1,31 | 1,31 | 1,64 | 5,74 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,47 - 3,91) | 1658 | 15,30 | 1,51 | 1,51 | 1,89 | 6,61 | | 11,52 (3,40 - 14,20) | 3,97 | 2,90 (0,46 - 4,38) | 1450 | 13,60 |
| 16+16+25+25 | 1,60 | 1,60 | 2,50 | 2,50 | | 8,20 (2,90 - 10,60) | 3,24 | 2,53 (0,42 - 4,04) | 1265 | 11,70 | 2,25 | 2,25 | 3,51 | 3,51 | | 11,52 (3,40 - 14,20) | 3,80 | 3,03 (0,39 - 4,59) | 1515 | 14,20 |
| 16+16+25+35 | 1,60 | 1,60 | 2,50 | 3,20 | | 8,90 (2,90 - 10,60) | 3,13 | 2,84 (0,42 - 3,96) | 1420 | 13,10 | 2,07 | 2,07 | 3,24 | 4,14 | | 11,52 (3,40 - 14,20) | 3,84 | 3,00 (0,40 - 4,55) | 1500 | 14,10 |
| 16+16+25+42 | 1,60 | 1,60 | 2,50 | 4,00 | | 9,70 (2,90 - 10,60) | 2,96 | 3,28 (0,42 - 3,96) | 1640 | 15,10 | 1,90 | 1,90 | 2,97 | 4,75 | | 11,52 (3,40 - 14,20) | 3,85 | 2,99 (0,40 - 4,53) | 1495 | 14,10 |
| 16+16+25+50 | 1,50 | 1,50 | 2,33 | 4,67 | | 10,00 (2,90 - 10,60) | 2,95 | 3,39 (0,47 - 3,83) | 1693 | 15,60 | 1,72 | 1,72 | 2,69 | 5,39 | | 11,52 (3,40 - 14,20) | 3,96 | 2,91 (0,46 - 4,40) | 1455 | 13,70 |
| 16+16+25+71 | 1,26 | 1,26 | 1,97 | 5,51 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,47 - 3,91) | 1658 | 15,30 | 1,45 | 1,45 | 2,27 | 6,35 | | 11,52 (3,40 - 14,20) | 3,97 | 2,90 (0,46 - 4,38) | 1450 | 13,60 |
| 16+16+35+35 | 1,60 | 1,60 | 3,20 | 3,20 | | 9,60 (2,90 - 10,60) | 3,07 | 3,13 (0,43 - 3,96) | 1565 | 14,40 | 1,92 | 1,92 | 3,84 | 3,84 | | 11,52 (3,40 - 14,20) | 3,87 | 2,98 (0,42 - 4,50) | 1490 | 14,00 |
| 16+16+35+42 | 1,54 | 1,54 | 3,07 | 3,85 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,77 | 1,77 | 3,54 | 4,44 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,42 - 4,42) | 1485 | 14,00 |
| 16+16+35+50 | 1,40 | 1,40 | 2,81 | 4,39 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,62 | 1,62 | 3,23 | 5,05 | | 11,52 (3,40 - 14,20) | 3,99 | 2,89 (0,48 - 4,36) | 1445 | 13,60 |
| 16+16+35+71 | 1,19 | 1,19 | 2,39 | 5,23 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,38 | 1,38 | 2,74 | 6,02 | | 11,52 (3,40 - 14,40) | 3,93 | 2,93 (0,49 - 4,41) | 1465 | 13,80 |
| 16+16+42+42 | 1,43 | 1,43 | 3,57 | 3,57 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,65 | 1,65 | 4,11 | 4,11 | | 11,52 (3,40 - 14,20) | 3,89 | 2,96 (0,42 - 4,41) | 1480 | 13,90 |
| 16+16+42+50 | 1,31 | 1,31 | 3,28 | 4,10 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,47 - 3,91) | 1658 | 15,30 | 1,51 | 1,51 | 3,78 | 4,72 | | 11,52 (3,40 - 14,20) | 3,93 | 2,93 (0,49 - 4,34) | 1465 | 13,80 |
| 16+16+42+71 | 1,13 | 1,13 | 2,81 | 4,93 | | 10,00 (3,00 - 11,00) | 3,02 | 3,32 (0,51 - 4,00) | 1658 | 15,30 | 1,30 | 1,30 | 3,24 | 5,68 | | 11,52 (3,40 - 14,40) | 3,95 | 2,92 (0,49 - 4,39) | 1460 | 13,70 |
| 16+16+50+50 | 1,21 | 1,21 | 3,79 | 3,79 | | 10,00 (2,90 - 10,80) | 3,04 | 3,29 (0,55 - 3,79) | 1645 | 15,20 | 1,40 | 1,40 | 4,36 | 4,36 | | 11,52 (3,40 - 14,40) | 3,95 | 2,92 (0,57 - 4,36) | 1460 | 13,70 |

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 16+16+50+71 | 1,05 | 1,05 | 3,29 | 4,61 | | 10,00 (3,00 - 11,00) | 3,04 | 3,29 (0,59 - 3,95) | 1645 | 15,20 | 1,21 | 1,21 | 3,79 | 5,31 | | 11,52 (3,40 - 14,40) | 3,95 | 2,92 (0,58 - 4,34) | 1460 | 13,70 |
| 16+16+71+71 | 0,93 | 0,93 | 4,07 | 4,07 | | 10,00 (3,00 - 11,20) | 3,04 | 3,29 (0,60 - 4,03) | 1645 | 15,20 | 1,07 | 1,07 | 4,69 | 4,69 | | 11,52 (3,40 - 14,40) | 3,96 | 2,91 (0,59 - 4,39) | 1455 | 13,70 |
| 16+20+20+20 | 1,60 | 2,00 | 2,00 | 2,00 | | 7,60 (2,90 - 10,60) | 3,32 | 2,29 (0,42 - 4,05) | 1145 | 10,60 | 2,43 | 3,03 | 3,03 | 3,03 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,39 - 4,52) | 1485 | 14,00 |
| 16+20+20+25 | 1,60 | 2,00 | 2,00 | 2,50 | | 8,10 (2,90 - 10,60) | 3,29 | 2,46 (0,42 - 4,05) | 1230 | 11,30 | 2,28 | 2,84 | 2,84 | 3,56 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,39 - 4,52) | 1485 | 14,00 |
| 16+20+20+35 | 1,60 | 2,00 | 2,00 | 3,20 | | 8,80 (2,90 - 10,60) | 3,18 | 2,77 (0,42 - 3,96) | 1385 | 12,80 | 2,09 | 2,62 | 2,62 | 4,19 | | 11,52 (3,40 - 14,20) | 3,92 | 2,94 (0,40 - 4,48) | 1470 | 13,80 |
| 16+20+20+42 | 1,60 | 2,00 | 2,00 | 4,00 | | 9,60 (2,90 - 10,60) | 3,00 | 3,20 (0,42 - 3,96) | 1600 | 14,80 | 1,92 | 2,40 | 2,40 | 4,80 | | 11,52 (3,40 - 14,20) | 3,93 | 2,93 (0,40 - 4,47) | 1465 | 13,80 |
| 16+20+20+50 | 1,50 | 1,89 | 1,89 | 4,72 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,74 | 2,17 | 2,17 | 5,44 | | 11,52 (3,40 - 14,20) | 4,04 | 2,85 (0,46 - 4,33) | 1425 | 13,40 |
| 16+20+20+71 | 1,26 | 1,59 | 1,59 | 5,56 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,46 | 1,83 | 1,83 | 6,40 | | 11,52 (3,40 - 14,20) | 4,06 | 2,84 (0,48 - 4,31) | 1420 | 13,30 |
| 16+20+25+25 | 1,60 | 2,00 | 2,50 | 2,50 | | 8,60 (2,90 - 10,60) | 3,15 | 2,73 (0,42 - 4,05) | 1365 | 12,60 | 2,14 | 2,68 | 3,35 | 3,35 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,39 - 4,52) | 1485 | 14,00 |
| 16+20+25+35 | 1,60 | 2,00 | 2,50 | 3,20 | | 9,30 (2,90 - 10,60) | 3,08 | 3,02 (0,42 - 3,96) | 1510 | 13,90 | 1,98 | 2,48 | 3,10 | 3,96 | | 11,52 (3,40 - 14,20) | 3,92 | 2,94 (0,40 - 4,48) | 1470 | 13,80 |
| 16+20+25+42 | 1,58 | 1,98 | 2,48 | 3,96 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,42 - 3,96) | 1715 | 15,80 | 1,82 | 2,28 | 2,85 | 4,57 | | 11,52 (3,40 - 14,20) | 3,93 | 2,93 (0,40 - 4,47) | 1465 | 13,80 |
| 16+20+25+50 | 1,44 | 1,80 | 2,25 | 4,51 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,66 | 2,08 | 2,59 | 5,19 | | 11,52 (3,40 - 14,20) | 4,04 | 2,85 (0,46 - 4,33) | 1425 | 13,40 |
| 16+20+25+71 | 1,22 | 1,53 | 1,91 | 5,34 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,40 | 1,76 | 2,20 | 6,16 | | 11,52 (3,40 - 14,40) | 4,06 | 2,84 (0,48 - 4,38) | 1420 | 13,30 |
| 16+20+35+35 | 1,60 | 2,00 | 3,20 | 3,20 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,84 | 2,30 | 3,69 | 3,69 | | 11,52 (3,40 - 14,20) | 3,95 | 2,92 (0,42 - 4,37) | 1460 | 13,70 |
| 16+20+35+42 | 1,48 | 1,85 | 2,96 | 3,71 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,71 | 2,13 | 3,41 | 4,27 | | 11,52 (3,40 - 14,20) | 3,96 | 2,91 (0,42 - 4,36) | 1455 | 13,70 |
| 16+20+35+50 | 1,36 | 1,69 | 2,71 | 4,24 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,56 | 1,95 | 3,12 | 4,89 | | 11,52 (3,40 - 14,20) | 4,00 | 2,88 (0,49 - 4,29) | 1440 | 13,50 |
| 16+20+35+71 | 1,16 | 1,45 | 2,32 | 5,07 | | 10,00 (2,90 - 10,80) | 3,08 | 3,25 (0,51 - 3,84) | 1623 | 15,00 | 1,34 | 1,67 | 2,67 | 5,84 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,49 - 4,34) | 1435 | 13,50 |
| 16+20+42+42 | 1,38 | 1,72 | 3,45 | 3,45 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 1,59 | 1,99 | 3,97 | 3,97 | | 11,52 (3,40 - 14,20) | 3,97 | 2,90 (0,42 - 4,34) | 1450 | 13,60 |
| 16+20+42+50 | 1,27 | 1,59 | 3,17 | 3,97 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,46 | 1,83 | 3,66 | 4,57 | | 11,52 (3,40 - 14,20) | 4,01 | 2,87 (0,49 - 4,28) | 1435 | 13,50 |
| 16+20+42+71 | 1,10 | 1,37 | 2,74 | 4,79 | | 10,00 (3,00 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,26 | 1,58 | 3,16 | 5,52 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,50 - 4,33) | 1430 | 13,40 |
| 16+20+50+50 | 1,17 | 1,47 | 3,68 | 3,68 | | 10,00 (2,90 - 10,80) | 3,04 | 3,29 (0,56 - 3,79) | 1645 | 15,20 | 1,35 | 1,69 | 4,24 | 4,24 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,58 - 4,30) | 1435 | 13,50 |
| 16+20+50+71 | 1,02 | 1,28 | 3,21 | 4,49 | | 10,00 (3,00 - 11,00) | 3,04 | 3,29 (0,59 - 3,87) | 1645 | 15,20 | 1,18 | 1,48 | 3,69 | 5,17 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,59 - 4,34) | 1430 | 13,40 |
| 16+25+25+25 | 1,60 | 2,50 | 2,50 | 2,50 | | 9,10 (2,90 - 10,60) | 3,08 | 2,95 (0,42 - 4,05) | 1475 | 13,60 | 2,04 | 3,16 | 3,16 | 3,16 | | 11,52 (3,40 - 14,20) | 3,88 | 2,97 (0,39 - 4,52) | 1485 | 14,00 |
| 16+25+25+35 | 1,60 | 2,50 | 2,50 | 3,20 | | 9,80 (2,90 - 10,60) | 2,93 | 3,35 (0,42 - 3,96) | 1675 | 15,40 | 1,88 | 2,94 | 2,94 | 3,76 | | 11,52 (3,40 - 14,20) | 3,92 | 2,94 (0,40 - 4,48) | 1470 | 13,80 |
| 16+25+25+42 | 1,51 | 2,36 | 2,36 | 3,77 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,42 - 3,96) | 1715 | 15,80 | 1,73 | 2,72 | 2,72 | 4,35 | | 11,52 (3,40 - 14,20) | 3,93 | 2,93 (0,40 - 4,47) | 1465 | 13,80 |
| 16+25+25+50 | 1,37 | 2,16 | 2,16 | 4,31 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 1,59 | 2,48 | 2,48 | 4,97 | | 11,52 (3,40 - 14,20) | 4,04 | 2,85 (0,46 - 4,33) | 1425 | 13,40 |
| 16+25+25+71 | 1,17 | 1,84 | 1,84 | 5,15 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,35 | 2,12 | 2,12 | 5,93 | | 11,52 (3,40 - 14,40) | 4,06 | 2,84 (0,48 - 4,38) | 1420 | 13,30 |
| 16+25+35+35 | 1,52 | 2,38 | 3,05 | 3,05 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,76 | 2,74 | 3,51 | 3,51 | | 11,52 (3,40 - 14,20) | 3,95 | 2,92 (0,42 - 4,37) | 1460 | 13,70 |
| 16+25+35+42 | 1,42 | 2,21 | 2,83 | 3,54 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,88) | 1715 | 15,80 | 1,63 | 2,55 | 3,26 | 4,08 | | 11,52 (3,40 - 14,20) | 3,96 | 2,91 (0,42 - 4,36) | 1455 | 13,70 |
| 16+25+35+50 | 1,30 | 2,03 | 2,60 | 4,07 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,47 - 3,91) | 1658 | 15,30 | 1,50 | 2,34 | 3,00 | 4,68 | | 11,52 (3,40 - 14,20) | 4,00 | 2,88 (0,49 - 4,29) | 1440 | 13,50 |
| 16+25+35+71 | 1,11 | 1,75 | 2,24 | 4,90 | | 10,00 (3,00 - 11,00) | 3,08 | 3,25 (0,51 - 4,00) | 1623 | 15,00 | 1,29 | 2,01 | 2,58 | 5,64 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,49 - 4,34) | 1435 | 13,50 |
| 16+25+42+42 | 1,31 | 2,07 | 3,31 | 3,31 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,43 - 4,05) | 1675 | 15,40 | 1,52 | 2,38 | 3,81 | 3,81 | | 11,52 (3,40 - 14,20) | 3,97 | 2,90 (0,42 - 4,34) | 1450 | 13,60 |
| 16+25+42+50 | 1,22 | 1,91 | 3,05 | 3,82 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,40 | 2,20 | 3,52 | 4,40 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,49 - 4,35) | 1435 | 13,50 |
| 16+25+42+71 | 1,05 | 1,66 | 2,65 | 4,64 | | 10,00 (3,00 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,22 | 1,91 | 3,05 | 5,34 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,50 - 4,33) | 1430 | 13,40 |
| 16+25+50+50 | 1,13 | 1,77 | 3,55 | 3,55 | | 10,00 (2,90 - 10,80) | 3,04 | 3,29 (0,56 - 3,79) | 1645 | 15,20 | 1,30 | 2,04 | 4,09 | 4,09 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,58 - 4,30) | 1435 | 13,50 |
| 16+25+50+71 | 0,99 | 1,55 | 3,11 | 4,35 | | 10,00 (3,00 - 11,20) | 3,04 | 3,29 (0,59 - 4,03) | 1645 | 15,20 | 1,14 | 1,79 | 3,58 | 5,01 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,59 - 4,34) | 1430 | 13,40 |
| 16+35+35+35 | 1,42 | 2,86 | 2,86 | 2,86 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,80) | 1675 | 15,40 | 1,65 | 3,29 | 3,29 | 3,29 | | 11,52 (3,40 - 14,20) | 3,99 | 2,89 (0,43 - 4,33) | 1445 | 13,60 |
| 16+35+35+42 | 1,33 | 2,67 | 2,67 | 3,33 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,46 - 3,80) | 1675 | 15,40 | 1,54 | 3,07 | 3,07 | 3,84 | | 11,52 (3,40 - 14,20) | 4,00 | 2,88 (0,43 - 4,32) | 1440 | 13,50 |
| 16+35+35+50 | 1,23 | 2,46 | 2,46 | 3,85 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,51 - 3,84) | 1658 | 15,30 | 1,41 | 2,84 | 2,84 | 4,43 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,50 - 4,32) | 1430 | 13,40 |
| 16+35+35+71 | 1,07 | 2,13 | 2,13 | 4,67 | | 10,00 (3,00 - 11,00) | 3,08 | 3,25 (0,54 - 3,92) | 1623 | 15,00 | 1,22 | 2,46 | 2,46 | 5,38 | | 11,52 (3,40 - 14,40) | 4,04 | 2,85 (0,52 - 4,37) | 1425 | 13,40 |
| 16+35+42+42 | 1,24 | 2,50 | 3,13 | 3,13 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 1,44 | 2,88 | 3,60 | 3,60 | | 11,52 (3,40 - 14,40) | 4,01 | 2,87 (0,43 - 4,44) | 1435 | 13,50 |
| 16+35+42+50 | 1,16 | 2,32 | 2,90 | 3,62 | | 10,00 (2,90 - 10,80) | 3,08 | 3,25 (0,51 - 3,84) | 1623 | 15,00 | 1,34 | 2,67 | 3,34 | 4,17 | | 11,52 (3,40 - 14,40) | 4,04 | 2,85 (0,51 - 4,38) | 1425 | 13,40 |
| 16+35+42+71 | 1,01 | 2,03 | 2,53 | 4,43 | | 10,00 (3,00 - 11,20) | 3,08 | 3,25 (0,54 - 4,08) | 1623 | 15,00 | 1,17 | 2,33 | 2,92 | 5,10 | | 11,52 (3,40 - 14,40) | 4,06 | 2,84 (0,52 - 4,36) | 1420 | 13,30 |
| 16+35+50+50 | 1,08 | 2,16 | 3,38 | 3,38 | | 10,00 (3,00 - 11,00) | 3,04 | 3,29 (0,59 - 3,87) | 1645 | 15,20 | 1,25 | 2,49 | 3,89 | 3,89 | | 11,52 (3,40 - 14,40) | 3,97 | 2,90 (0,60 - 4,33) | 1450 | 13,60 |
| 16+35+50+71 | 0,95 | 1,90 | 2,98 | 4,17 | | 10,00 (3,00 - 11,20) | 3,04 | 3,29 (0,60 - 4,03) | 1645 | 15,20 | 1,10 | 2,19 | 3,43 | 4,80 | | 11,52 (3,40 - 14,40) | 3,99 | 2,89 (0,62 - 4,31) | 1445 | 13,60 |
| 16+42+42+42 | 1,18 | 2,94 | 2,94 | 2,94 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 1,35 | 3,39 | 3,39 | 3,39 | | 11,52 (3,40 - 14,40) | 4,03 | 2,86 (0,45 - 4,42) | 1430 | 13,40 |
| 16+42+42+50 | 1,10 | 2,74 | 2,74 | 3,42 | | 10,00 (3,00 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,25 | 3,16 | 3,16 | 3,95 | | 11,52 (3,40 - 14,40) | 4,06 | 2,84 (0,52 - 4,36) | 1420 | 13,30 |
| 16+42+42+71 | 0,96 | 2,41 | 2,41 | 4,22 | | 10,00 (3,00 - 11,20) | 3,08 | 3,25 (0,54 - 4,08) | 1623 | 15,00 | 1,10 | 2,78 | 2,78 | 4,86 | | 11,52 (3,40 - 14,40) | 4,07 | 2,83 (0,53 - 4,34) | 1415 | 13,30 |
| 16+42+50+50 | 1,02 | 2,56 | 3,21 | 3,21 | | 10,00 (3,00 - 11,00) | 3,04 | 3,29 (0,59 - 3,87) | 1645 | 15,20 | 1,18 | 2,96 | 3,69 | 3,69 | | 11,52 (3,40 - 14,40) | 3,99 | 2,89 (0,62 - 4,32) | 1445 | 13,60 |
| 16+50+50+50 | 0,97 | 3,01 | 3,01 | 3,01 | | 10,00 (3,00 - 11,20) | 2,99 | 3,35 (0,65 - 4,08) | 1673 | 15,40 | 1,11 | 3,47 | 3,47 | 3,47 | | 11,52 (3,40 - 14,40) | 3,89 | 2,96 (0,72 - 4,35) | 1480 | 13,90 |
| 20+20+20+20 | 2,00 | 2,00 | 2,00 | 2,00 | | 8,00 (2,90 - 10,60) | 3,25 | 2,46 (0,42 - 4,05) | 1230 | 11,30 | 2,88 | 2,88 | 2,88 | 2,88 | | 11,52 (3,40 - 14,20) | 3,96 | 2,91 (0,39 - 4,46) | 1455 | 13,70 |
| 20+20+20+25 | 2,00 | 2,00 | 2,00 | 2,50 | | 8,50 (2,90 - 10,60) | 3,20 | 2,66 (0,42 - 4,05) | 1330 | 12,30 | 2,80 | 2,80 | 2,80 | 3,50 | | 11,90 (3,40 - 14,20) | 3,88 | 3,07 (0,39 - 4,46) | 1535 | 14,40 |
| 20+20+20+35 | 2,00 | 2,00 | 2,00 | 3,20 | | 9,20 (2,90 - 10,60) | 3,12 | 2,95 (0,42 - 3,96) | 1475 | 13,60 | 2,61 | 2,61 | 2,61 | 4,17 | | 12,00 (3,40 - 14,20) | 3,95 | 3,04 (0,40 - 4,42) | 1520 | 14,30 |
| 20+20+20+42 | 2,00 | 2,00 | 2,00 | 4,00 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,96) | 1715 | 15,80 | 2,40 | 2,40 | 2,40 | 4,80 | | 12,00 (3,40 - 14,20) | 3,96 | 3,03 (0,42 - 4,40) | 1515 | 14,20 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+20+20+50 | 1,82 | 1,82 | 1,82 | 4,54 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 2,18 | 2,18 | 2,18 | 5,46 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,48 - 4,27) | 1500 | 14,10 |
| 20+20+20+71 | 1,54 | 1,54 | 1,54 | 5,38 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,85 | 1,85 | 1,85 | 6,45 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,48 - 4,31) | 1495 | 14,10 |
| 20+20+25+25 | 2,00 | 2,00 | 2,50 | 2,50 | | 9,00 (2,90 - 10,60) | 3,09 | 2,91 (0,42 - 4,05) | 1455 | 13,40 | 2,67 | 2,67 | 3,33 | 3,33 | | 12,00 (3,40 - 14,20) | 3,91 | 3,07 (0,39 - 4,46) | 1535 | 14,40 |
| 20+20+25+35 | 2,00 | 2,00 | 2,50 | 3,20 | | 9,70 (2,90 - 10,60) | 3,03 | 3,20 (0,42 - 3,96) | 1600 | 14,80 | 2,47 | 2,47 | 3,09 | 3,97 | | 12,00 (3,40 - 14,20) | 3,95 | 3,04 (0,40 - 4,42) | 1520 | 14,30 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+20+25+42 | 1,90 | 1,90 | 2,38 | 3,82 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,96) | 1715 | 15,80 | 2,29 | 2,29 | 2,85 | 4,57 | | 12,00 (3,40 - 14,20) | 3,96 | 3,03 (0,42 - 4,40) | 1515 | 14,20 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+20+25+50 | 1,74 | 1,74 | 2,17 | 4,35 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 2,09 | 2,09 | 2,60 | 5,22 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,48 - 4,27) | 1500 | 14,10 |
| 20+20+25+71 | 1,48 | 1,48 | 1,85 | 5,19 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,78 | 1,78 | 2,22 | 6,22 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,48 - 4,31) | 1495 | 14,10 |
| 20+20+35+35 | 1,92 | 1,92 | 3,08 | 3,08 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,31 | 2,31 | 3,69 | 3,69 | | 12,00 (3,40 - 14,20) | 3,99 | 3,01 (0,42 - 4,31) | 1505 | 14,10 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 20+20+35+42 | 1,79 | 1,79 | 2,85 | 3,57 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,14 | 2,14 | 3,43 | 4,29 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,42 - 4,29) | 1500 | 14,10 |
| 20+20+35+50 | 1,64 | 1,64 | 2,62 | 4,10 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,97 | 1,97 | 3,14 | 4,92 | | 12,00 (3,40 - 14,20) | 4,04 | 2,97 (0,49 - 4,23) | 1485 | 14,00 |
| 20+20+35+71 | 1,41 | 1,41 | 2,25 | 4,93 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,69 | 1,69 | 2,70 | 5,92 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,50 - 4,28) | 1480 | 13,90 |
| 20+20+42+42 | 1,67 | 1,67 | 3,33 | 3,33 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,00 | 2,00 | 4,00 | 4,00 | | 12,00 (3,40 - 14,20) | 4,01 | 2,99 (0,43 - 4,28) | 1495 | 14,10 |
| 20+20+42+50 | 1,54 | 1,54 | 3,07 | 3,85 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,85 | 1,85 | 3,68 | 4,62 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,49 - 4,28) | 1480 | 13,90 |
| 20+20+42+71 | 1,33 | 1,33 | 2,67 | 4,67 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,60 | 1,60 | 3,20 | 5,60 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,51 - 4,33) | 1475 | 13,90 |
| 20+20+50+50 | 1,43 | 1,43 | 3,57 | 3,57 | | 10,00 (2,90 - 10,80) | 3,04 | 3,29 (0,56 - 3,79) | 1645 | 15,20 | 1,71 | 1,71 | 4,29 | 4,29 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,59 - 4,30) | 1500 | 14,10 |
| 20+20+50+71 | 1,25 | 1,25 | 3,12 | 4,38 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,56 - 4,03) | 1645 | 15,20 | 1,50 | 1,50 | 3,75 | 5,25 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,60 - 4,28) | 1500 | 14,10 |
| 20+25+25+25 | 2,00 | 2,50 | 2,50 | 2,50 | | 9,50 (2,90 - 10,60) | 3,00 | 3,17 (0,42 - 4,05) | 1585 | 14,60 | 2,52 | 3,16 | 3,16 | 3,16 | | 12,00 (3,40 - 14,20) | 3,91 | 3,07 (0,39 - 4,46) | 1535 | 14,40 |
| 20+25+25+28 | 2,00 | 2,50 | 2,50 | 2,80 | | 9,80 (2,90 - 10,60) | 2,99 | 3,28 (0,42 - 3,98) | 1640 | 15,10 | 2,45 | 3,06 | 3,06 | 3,43 | | 12,00 (3,40 - 14,20) | 3,93 | 3,05 (0,39 - 4,44) | 1525 | 14,30 |
| 20+25+25+35 | 1,96 | 2,45 | 2,45 | 3,14 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,42 - 3,96) | 1715 | 15,80 | 2,35 | 2,94 | 2,94 | 3,77 | | 12,00 (3,40 - 14,20) | 3,95 | 3,04 (0,40 - 4,42) | 1520 | 14,30 |
| | | | | | | | 5,60 A+ [1] | | | | | | | | | | 3,80 A [1] | | | |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 20+25+25+42 | 1,82 | 2,27 | 2,27 | 3,64 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,96) | 1715 | 15,80 | 2,18 | 2,73 | 2,73 | 4,36 | | 12,00 (3,40 - 14,20) | 3,96 | 3,03 (0,42 - 4,40) | 1515 | 14,20 |
| 20+25+25+50 | 1,67 | 2,08 | 2,08 | 4,17 | | 10,00 (2,90 - 10,60) | 3,02 | 3,32 (0,47 - 3,75) | 1658 | 15,30 | 2,00 | 2,50 | 2,50 | 5,00 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,48 - 4,27) | 1500 | 14,10 |
| 20+25+25+71 | 1,42 | 1,79 | 1,79 | 5,00 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,71 | 2,14 | 2,14 | 6,01 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,48 - 4,31) | 1495 | 14,10 |
| 20+25+35+35 | 1,83 | 2,29 | 2,94 | 2,94 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,20 | 2,76 | 3,52 | 3,52 | | 12,00 (3,40 - 14,20) | 3,99 | 3,01 (0,42 - 4,31) | 1505 | 14,10 |
| 20+25+35+42 | 1,70 | 2,14 | 2,74 | 3,42 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,05 | 2,56 | 3,28 | 4,11 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,42 - 4,29) | 1500 | 14,10 |
| 20+25+35+50 | 1,57 | 1,97 | 2,52 | 3,94 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 1,89 | 2,36 | 3,02 | 4,73 | | 12,00 (3,40 - 14,20) | 4,04 | 2,97 (0,49 - 4,23) | 1485 | 14,00 |
| 20+25+35+71 | 1,36 | 1,70 | 2,18 | 4,76 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,63 | 2,04 | 2,61 | 5,72 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,50 - 4,28) | 1480 | 13,90 |
| 20+25+42+42 | 1,60 | 2,00 | 3,20 | 3,20 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,43 - 4,05) | 1675 | 15,40 | 1,92 | 2,40 | 3,84 | 3,84 | | 12,00 (3,40 - 14,20) | 4,01 | 2,99 (0,43 - 4,28) | 1495 | 14,10 |
| 20+25+42+50 | 1,48 | 1,85 | 2,96 | 3,71 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 1,78 | 2,22 | 3,56 | 4,44 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,49 - 4,28) | 1480 | 13,90 |
| 20+25+42+71 | 1,29 | 1,61 | 2,58 | 4,52 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,54 | 1,94 | 3,10 | 5,42 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,51 - 4,33) | 1475 | 13,90 |
| 20+25+50+50 | 1,38 | 1,72 | 3,45 | 3,45 | | 10,00 (2,90 - 11,00) | 3,04 | 3,29 (0,56 - 3,95) | 1645 | 15,20 | 1,65 | 2,07 | 4,14 | 4,14 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,59 - 4,30) | 1500 | 14,10 |
| 20+25+50+71 | 1,21 | 1,52 | 3,03 | 4,24 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,56 - 4,03) | 1645 | 15,20 | 1,45 | 1,82 | 3,64 | 5,09 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,60 - 4,28) | 1500 | 14,10 |
| 20+35+35+35 | 1,72 | 2,76 | 2,76 | 2,76 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,46 - 3,80) | 1675 | 15,40 | 2,07 | 3,31 | 3,31 | 3,31 | | 12,00 (3,40 - 14,20) | 4,03 | 2,98 (0,43 - 4,27) | 1490 | 14,00 |
| 20+35+35+42 | 1,61 | 2,58 | 2,58 | 3,23 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 1,93 | 3,10 | 3,10 | 3,87 | | 12,00 (3,40 - 14,20) | 3,96 | 3,03 (0,43 - 4,25) | 1515 | 14,20 |
| 20+35+35+50 | 1,49 | 2,39 | 2,39 | 3,73 | | 10,00 (2,90 - 10,80) | 3,08 | 3,25 (0,51 - 3,84) | 1623 | 15,00 | 1,78 | 2,87 | 2,87 | 4,48 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,51 - 4,33) | 1475 | 13,90 |
| 20+35+35+71 | 1,29 | 2,08 | 2,08 | 4,55 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,56 | 2,49 | 2,49 | 5,46 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,52 - 4,31) | 1495 | 14,10 |
| 20+35+42+42 | 1,52 | 2,42 | 3,03 | 3,03 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 1,81 | 2,91 | 3,64 | 3,64 | | 12,00 (3,40 - 14,40) | 3,97 | 3,02 (0,45 - 4,37) | 1510 | 14,20 |
| 20+35+42+50 | 1,41 | 2,25 | 2,82 | 3,52 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,69 | 2,70 | 3,38 | 4,23 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,52 - 4,31) | 1495 | 14,10 |
| 20+35+42+71 | 1,23 | 1,98 | 2,47 | 4,32 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,51 - 4,08) | 1623 | 15,00 | 1,48 | 2,37 | 2,96 | 5,19 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,53 - 4,29) | 1490 | 14,00 |
| 20+35+50+50 | 1,31 | 2,11 | 3,29 | 3,29 | | 10,00 (2,90 - 11,00) | 3,04 | 3,29 (0,56 - 3,87) | 1645 | 15,20 | 1,57 | 2,53 | 3,95 | 3,95 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,62 - 4,27) | 1495 | 14,10 |
| 20+35+50+71 | 1,16 | 1,86 | 2,91 | 4,07 | | 10,00 (2,90 - 11,20) | 3,03 | 3,30 (0,60 - 4,03) | 1650 | 15,20 | 1,40 | 2,23 | 3,49 | 4,88 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,62 - 4,25) | 1490 | 14,00 |
| 20+42+42+42 | 1,42 | 2,86 | 2,86 | 2,86 | | 10,00 (2,90 - 10,80) | 3,05 | 3,28 (0,46 - 3,96) | 1640 | 15,10 | 1,71 | 3,43 | 3,43 | 3,43 | | 12,00 (3,40 - 14,40) | 3,99 | 3,01 (0,45 - 4,36) | 1505 | 14,10 |
| 20+42+42+50 | 1,33 | 2,67 | 2,67 | 3,33 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,60 | 3,20 | 3,20 | 4,00 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,52 - 4,30) | 1490 | 14,00 |
| 20+42+42+71 | 1,18 | 2,35 | 2,35 | 4,12 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,52 - 4,00) | 1623 | 15,00 | 1,41 | 2,82 | 2,82 | 4,95 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,53 - 4,28) | 1485 | 14,00 |
| 20+42+50+50 | 1,24 | 2,50 | 3,13 | 3,13 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,56 - 4,03) | 1645 | 15,20 | 1,50 | 3,00 | 3,75 | 3,75 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,62 - 4,25) | 1490 | 14,00 |
| 20+50+50+50 | 1,18 | 2,94 | 2,94 | 2,94 | | 10,00 (2,90 - 11,20) | 2,99 | 3,35 (0,66 - 4,08) | 1673 | 15,40 | 1,41 | 3,53 | 3,53 | 3,53 | | 12,00 (3,40 - 14,40) | 3,88 | 3,09 (0,73 - 4,29) | 1545 | 14,50 |
| 25+25+25+25 | 2,50 | 2,50 | 2,50 | 2,50 | | 10,00 (2,90 - 10,60) | 2,86 | 3,50 (0,42 - 4,05) | 1750 | 16,10 | 3,00 | 3,00 | 3,00 | 3,00 | | 12,00 (3,40 - 14,20) | 3,91 | 3,07 (0,39 - 4,46) | 1535 | 14,40 |
| | | | | | | | 5,60 A++ [1] | | | | | | | | | | 3,80 A [1] | | | |
| 25+25+25+35 | 2,34 | 2,34 | 2,34 | 2,98 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,42 - 3,96) | 1715 | 15,80 | 2,80 | 2,80 | 2,80 | 3,60 | | 12,00 (3,40 - 14,20) | 3,95 | 3,04 (0,40 - 4,42) | 1520 | 14,30 |
| 25+25+25+42 | 2,17 | 2,17 | 2,17 | 3,49 | | 10,00 (2,90 - 10,60) | 2,92 | 3,43 (0,43 - 3,96) | 1715 | 15,80 | 2,61 | 2,61 | 2,61 | 4,17 | | 12,00 (3,40 - 14,20) | 3,96 | 3,03 (0,42 - 4,40) | 1515 | 14,20 |
| 25+25+25+50 | 2,00 | 2,00 | 2,00 | 4,00 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,47 - 3,91) | 1658 | 15,30 | 2,40 | 2,40 | 2,40 | 4,80 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,48 - 4,27) | 1500 | 14,10 |
| 25+25+25+71 | 1,72 | 1,72 | 1,72 | 4,84 | | 10,00 (2,90 - 11,00) | 3,02 | 3,32 (0,50 - 4,00) | 1658 | 15,30 | 2,07 | 2,07 | 2,07 | 5,79 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,48 - 4,31) | 1495 | 14,10 |
| 25+25+35+35 | 2,19 | 2,19 | 2,81 | 2,81 | | 10,00 (2,90 - 10,60) | 2,99 | 3,35 (0,43 - 3,88) | 1675 | 15,40 | 2,63 | 2,63 | 3,37 | 3,37 | | 12,00 (3,40 - 14,20) | 3,99 | 3,01 (0,42 - 4,31) | 1505 | 14,10 |
| 25+25+35+42 | 2,05 | 2,05 | 2,62 | 3,28 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,43 - 4,05) | 1675 | 15,40 | 2,46 | 2,46 | 3,15 | 3,93 | | 12,00 (3,40 - 14,20) | 4,00 | 3,00 (0,42 - 4,29) | 1500 | 14,10 |
| 25+25+35+50 | 1,89 | 1,89 | 2,42 | 3,80 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,83) | 1658 | 15,30 | 2,27 | 2,27 | 2,91 | 4,55 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,49 - 4,30) | 1485 | 14,00 |
| 25+25+35+71 | 1,64 | 1,64 | 2,11 | 4,61 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,97 | 1,97 | 2,53 | 5,53 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,50 - 4,28) | 1480 | 13,90 |
| 25+25+42+42 | 1,92 | 1,92 | 3,08 | 3,08 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,43 - 4,05) | 1675 | 15,40 | 2,31 | 2,31 | 3,69 | 3,69 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,43 - 4,41) | 1495 | 14,10 |
| 25+25+42+50 | 1,79 | 1,79 | 2,85 | 3,57 | | 10,00 (2,90 - 10,80) | 3,02 | 3,32 (0,50 - 3,84) | 1658 | 15,30 | 2,14 | 2,14 | 3,43 | 4,29 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,49 - 4,28) | 1480 | 13,90 |
| 25+25+42+71 | 1,56 | 1,56 | 2,50 | 4,38 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,51 - 4,08) | 1623 | 15,00 | 1,88 | 1,88 | 2,99 | 5,25 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,51 - 4,33) | 1475 | 13,90 |
| 25+25+50+50 | 1,67 | 1,67 | 3,33 | 3,33 | | 10,00 (2,90 - 11,00) | 3,04 | 3,29 (0,56 - 3,95) | 1645 | 15,20 | 2,00 | 2,00 | 4,00 | 4,00 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,59 - 4,30) | 1500 | 14,10 |
| 25+25+50+71 | 1,47 | 1,47 | 2,94 | 4,12 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,56 - 4,03) | 1645 | 15,20 | 1,76 | 1,76 | 3,53 | 4,95 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,60 - 4,28) | 1500 | 14,10 |
| 25+35+35+35 | 2,08 | 2,64 | 2,64 | 2,64 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 2,49 | 3,17 | 3,17 | 3,17 | | 12,00 (3,40 - 14,20) | 4,03 | 2,98 (0,43 - 4,27) | 1490 | 14,00 |
| 25+35+35+42 | 1,94 | 2,48 | 2,48 | 3,10 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 2,32 | 2,98 | 2,98 | 3,72 | | 12,00 (3,40 - 14,40) | 3,96 | 3,03 (0,43 - 4,39) | 1515 | 14,20 |
| 25+35+35+50 | 1,80 | 2,30 | 2,30 | 3,60 | | 10,00 (2,90 - 10,80) | 3,08 | 3,25 (0,51 - 3,84) | 1623 | 15,00 | 2,16 | 2,76 | 2,76 | 4,32 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,51 - 4,33) | 1475 | 13,90 |
| 25+35+35+71 | 1,57 | 2,01 | 2,01 | 4,41 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,51 - 4,08) | 1623 | 15,00 | 1,88 | 2,42 | 2,42 | 5,28 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,52 - 4,31) | 1495 | 14,10 |
| 25+35+42+42 | 1,82 | 2,34 | 2,92 | 2,92 | | 10,00 (2,90 - 10,80) | 2,99 | 3,35 (0,46 - 3,96) | 1675 | 15,40 | 2,19 | 2,81 | 3,50 | 3,50 | | 12,00 (3,40 - 14,40) | 3,97 | 3,02 (0,45 - 4,37) | 1510 | 14,20 |
| 25+35+42+50 | 1,70 | 2,18 | 2,72 | 3,40 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 2,04 | 2,61 | 3,27 | 4,08 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,52 - 4,31) | 1495 | 14,10 |
| 25+35+42+71 | 1,49 | 1,92 | 2,40 | 4,19 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,51 - 4,08) | 1623 | 15,00 | 1,80 | 2,30 | 2,87 | 5,03 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,53 - 4,29) | 1490 | 14,00 |
| 25+35+50+50 | 1,59 | 2,05 | 3,18 | 3,18 | | 10,00 (2,90 - 11,00) | 3,04 | 3,29 (0,56 - 3,87) | 1645 | 15,20 | 1,91 | 2,45 | 3,82 | 3,82 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,62 - 4,27) | 1495 | 14,10 |
| 25+42+42+42 | 1,72 | 2,76 | 2,76 | 2,76 | | 10,00 (2,90 - 11,00) | 3,05 | 3,28 (0,46 - 4,05) | 1640 | 15,10 | 2,07 | 3,31 | 3,31 | 3,31 | | 12,00 (3,40 - 14,40) | 3,99 | 3,01 (0,45 - 4,36) | 1505 | 14,10 |
| 25+42+42+50 | 1,61 | 2,58 | 2,58 | 3,23 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 1,93 | 3,10 | 3,10 | 3,87 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,52 - 4,30) | 1490 | 14,00 |
| 25+42+42+71 | 1,42 | 2,29 | 2,29 | 4,00 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,52 - 4,00) | 1623 | 15,00 | 1,71 | 2,74 | 2,74 | 4,81 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,53 - 4,28) | 1485 | 14,00 |
| 25+42+50+50 | 1,52 | 2,42 | 3,03 | 3,03 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,56 - 4,03) | 1645 | 15,20 | 1,81 | 2,91 | 3,64 | 3,64 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,62 - 4,25) | 1490 | 14,00 |
| 25+42+50+60 | 1,42 | 2,29 | 2,86 | 3,43 | | 10,00 (2,90 - 11,20) | 3,21 | 3,12 (0,56 - 3,86) | 1558 | 14,40 | 1,71 | 2,74 | 3,43 | 4,12 | | 12,00 (3,40 - 14,40) | 4,10 | 2,93 (0,62 - 4,20) | 1465 | 13,80 |
| 25+50+50+50 | 1,42 | 2,86 | 2,86 | 2,86 | | 10,00 (2,90 - 11,20) | 2,99 | 3,35 (0,66 - 4,08) | 1673 | 15,40 | 1,71 | 3,43 | 3,43 | 3,43 | | 12,00 (3,40 - 14,40) | 3,88 | 3,09 (0,73 - 4,29) | 1545 | 14,50 |
| 35+35+35+35 | 2,50 | 2,50 | 2,50 | 2,50 | | 10,00 (2,90 - 10,80) | 3,05 | 3,28 (0,46 - 3,88) | 1640 | 15,10 | 3,00 | 3,00 | 3,00 | 3,00 | | 12,00 (3,40 - 14,40) | 3,99 | 3,01 (0,45 - 4,36) | 1505 | 14,10 |
| 35+35+35+42 | 2,35 | 2,35 | 2,35 | 2,95 | | 10,00 (2,90 - 10,80) | 3,05 | 3,28 (0,46 - 3,88) | 1640 | 15,10 | 2,82 | 2,82 | 2,82 | 3,54 | | 12,00 (3,40 - 14,40) | 4,00 | 3,00 (0,45 - 4,35) | 1500 | 14,10 |
| 35+35+35+50 | 2,19 | 2,19 | 2,19 | 3,43 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 2,63 | 2,63 | 2,63 | 4,11 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,53 - 4,29) | 1490 | 14,00 |
| 35+35+35+71 | 1,93 | 1,93 | 1,93 | 4,21 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,52 - 4,00) | 1623 | 15,00 | 2,31 | 2,31 | 2,31 | 5,07 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,55 - 4,27) | 1485 | 14,00 |
| 35+35+42+42 | 2,22 | 2,22 | 2,78 | 2,78 | | 10,00 (2,90 - 11,00) | 3,05 | 3,28 (0,46 - 4,05) | 1640 | 15,10 | 2,67 | 2,67 | 3,33 | 3,33 | | 12,00 (3,40 - 14,40) | 4,01 | 2,99 (0,46 - 4,33) | 1495 | 14,10 |
| 35+35+42+50 | 2,08 | 2,08 | 2,59 | 3,25 | | 10,00 (2,90 - 11,00) | 3,08 | 3,25 (0,51 - 3,92) | 1623 | 15,00 | 2,49 | 2,49 | 3,12 | 3,90 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,54 - 4,28) | 1485 | 14,00 |
| 35+35+42+71 | 1,84 | 1,84 | 2,30 | 4,02 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,55 - 4,00) | 1623 | 15,00 | 2,21 | 2,21 | 2,75 | 4,83 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,55 - 4,26) | 1480 | 13,90 |
| 35+35+50+50 | 1,95 | 1,95 | 3,05 | 3,05 | | 10,00 (2,90 - 11,20) | 3,04 | 3,29 (0,60 - 4,03) | 1645 | 15,20 | 2,34 | 2,34 | 3,66 | 3,66 | | 12,00 (3,40 - 14,40) | 3,97 | 3,02 (0,63 - 4,24) | 1510 | 14,20 |
| 35+42+42+42 | 2,11 | 2,63 | 2,63 | 2,63 | | 10,00 (2,90 - 11,00) | 3,05 | 3,28 (0,46 - 4,05) | 1640 | 15,10 | 2,52 | 3,16 | 3,16 | 3,16 | | 12,00 (3,40 - 14,40) | 4,03 | 2,98 (0,46 - 4,32) | 1490 | 14,00 |
| 35+42+42+50 | 1,97 | 2,47 | 2,47 | 3,09 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,51 - 4,08) | 1623 | 15,00 | 2,37 | 2,96 | 2,96 | 3,71 | | 12,00 (3,40 - 14,40) | 4,05 | 2,96 (0,55 - 4,26) | 1480 | 13,90 |
| 35+42+50+50 | 1,85 | 2,33 | 2,91 | 2,91 | | 10,00 (2,90 - 11,20) | 3,03 | 3,30 (0,60 - 4,03) | 1650 | 15,20 | 2,23 | 2,79 | 3,49 | 3,49 | | 12,00 (3,40 - 14,40) | 3,99 | 3,01 (0,65 - 4,22) | 1505 | 14,10 |
| 42+42+42+42 | 2,50 | 2,50 | 2,50 | 2,50 | | 10,00 (2,90 - 11,20) | 3,05 | 3,28 (0,47 - 4,13) | 1640 | 15,10 | 3,00 | 3,00 | 3,00 | 3,00 | | 12,00 (3,40 - 14,40) | 4,04 | 2,97 (0,47 - 4,31) | 1485 | 14,00 |
| 42+42+42+50 | 2,35 | 2,35 | 2,35 | 2,95 | | 10,00 (2,90 - 11,20) | 3,08 | 3,25 (0,52 - 4,00) | 1623 | 15,00 | 2,82 | 2,82 | 2,82 | 3,54 | | 12,00 (3,40 - 14,40) | 4,07 | 2,95 (0,55 - 4,25) | 1475 | 13,90 |
| **5 Rooms** | | | | | | | | | | | | | | | | | | | | |
| 16+16+16+16+16 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | 8,00 (2,90 - 11,50) | 3,31 | 2,42 (0,51 - 4,29) | 1210 | 11,20 | 2,34 | 2,34 | 2,34 | 2,34 | 2,34 | 11,70 (3,40 - 14,50) | 3,77 | 3,10 (0,50 - 4,59) | 1550 | 14,60 |
| 16+16+16+16+20 | 1,60 | 1,60 | 1,60 | 1,60 | 2,00 | 8,40 (2,90 - 11,50) | 3,29 | 2,55 (0,51 - 4,29) | 1275 | 11,80 | 2,29 | 2,29 | 2,29 | 2,29 | 2,84 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,51 - 4,52) | 1570 | 14,80 |
| 16+16+16+16+25 | 1,60 | 1,60 | 1,60 | 1,60 | 2,50 | 8,90 (2,90 - 11,50) | 3,27 | 2,72 (0,51 - 4,29) | 1360 | 12,50 | 2,16 | 2,16 | 2,16 | 2,16 | 3,36 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,51 - 4,52) | 1570 | 14,80 |
| 16+16+16+16+35 | 1,60 | 1,60 | 1,60 | 1,60 | 3,20 | 9,60 (2,90 - 11,50) | 3,20 | 3,00 (0,52 - 4,21) | 1500 | 13,80 | 2,00 | 2,00 | 2,00 | 2,00 | 4,00 | 12,00 (3,40 - 14,50) | 3,79 | 3,17 (0,52 - 4,49) | 1585 | 14,90 |
| 16+16+16+16+42 | 1,54 | 1,54 | 1,54 | 1,54 | 3,84 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,85 | 1,85 | 1,85 | 1,85 | 4,60 | 12,00 (3,40 - 14,50) | 3,80 | 3,16 (0,53 - 4,54) | 1580 | 14,80 |
| 16+16+16+16+50 | 1,40 | 1,40 | 1,40 | 1,40 | 4,40 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,60 - 4,17) | 1633 | 15,10 | 1,68 | 1,68 | 1,68 | 1,68 | 5,28 | 12,00 (3,40 - 14,50) | 3,74 | 3,21 (0,63 - 4,49) | 1605 | 15,10 |
| 16+16+16+16+71 | 1,19 | 1,19 | 1,19 | 1,19 | 5,24 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,43 | 1,43 | 1,43 | 1,43 | 6,28 | 12,00 (3,40 - 14,50) | 3,75 | 3,20 (0,65 - 4,48) | 1600 | 15,00 |
| 16+16+16+20+20 | 1,60 | 1,60 | 1,60 | 2,00 | 2,00 | 8,80 (2,90 - 11,50) | 3,24 | 2,72 (0,51 - 4,21) | 1360 | 12,50 | 2,18 | 2,18 | 2,18 | 2,73 | 2,73 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,52 - 4,46) | 1545 | 14,50 |
| 16+16+16+20+25 | 1,60 | 1,60 | 1,60 | 2,00 | 2,50 | 9,30 (2,90 - 11,50) | 3,22 | 2,89 (0,51 - 4,21) | 1445 | 13,30 | 2,06 | 2,06 | 2,06 | 2,58 | 3,24 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,52 - 4,46) | 1545 | 14,50 |

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 16+16+16+20+35 | 1,60 | 1,60 | 1,60 | 2,00 | 3,20 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,92 | 1,92 | 1,92 | 2,40 | 3,84 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,53 - 4,49) | 1555 | 14,60 |
| 16+16+16+20+42 | 1,48 | 1,48 | 1,48 | 1,85 | 3,71 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 1,78 | 1,78 | 1,78 | 2,22 | 4,44 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,55 - 4,48) | 1555 | 14,60 |
| 16+16+16+20+50 | 1,36 | 1,36 | 1,36 | 1,68 | 4,24 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,17) | 1633 | 15,10 | 1,63 | 1,63 | 1,63 | 2,03 | 5,08 | 12,00 (3,40 - 14,50) | 3,80 | 3,16 (0,65 - 4,43) | 1580 | 14,80 |
| 16+16+16+20+71 | 1,16 | 1,16 | 1,16 | 1,45 | 5,07 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,62 - 4,09) | 1638 | 15,10 | 1,39 | 1,39 | 1,39 | 1,74 | 6,09 | 12,00 (3,40 - 14,50) | 3,81 | 3,15 (0,65 - 4,42) | 1575 | 14,80 |
| 16+16+16+25+25 | 1,60 | 1,60 | 1,60 | 2,50 | 2,50 | 9,80 (2,90 - 11,50) | 3,12 | 3,14 (0,51 - 4,21) | 1570 | 14,50 | 1,96 | 1,96 | 1,96 | 3,06 | 3,06 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,52 - 4,46) | 1545 | 14,50 |
| 16+16+16+25+35 | 1,52 | 1,52 | 1,52 | 2,38 | 3,06 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,83 | 1,83 | 1,83 | 2,85 | 3,66 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,53 - 4,49) | 1555 | 14,60 |
| 16+16+16+25+42 | 1,42 | 1,42 | 1,42 | 2,20 | 3,54 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 1,70 | 1,70 | 1,70 | 2,65 | 4,25 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,55 - 4,48) | 1555 | 14,60 |
| 16+16+16+25+50 | 1,30 | 1,30 | 1,30 | 2,03 | 4,07 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,17) | 1633 | 15,10 | 1,56 | 1,56 | 1,56 | 2,44 | 4,88 | 12,00 (3,40 - 14,50) | 3,80 | 3,16 (0,65 - 4,43) | 1580 | 14,80 |
| 16+16+16+25+71 | 1,12 | 1,12 | 1,12 | 1,74 | 4,90 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,62 - 4,09) | 1638 | 15,10 | 1,34 | 1,34 | 1,34 | 2,10 | 5,88 | 12,00 (3,40 - 14,50) | 3,81 | 3,15 (0,65 - 4,42) | 1575 | 14,80 |
| 16+16+16+35+35 | 1,43 | 1,43 | 1,43 | 2,85 | 2,85 | 9,99 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,71 | 1,71 | 1,71 | 3,43 | 3,43 | 11,99 (3,40 - 14,50) | 3,88 | 3,09 (0,56 - 4,45) | 1545 | 14,50 |
| 16+16+16+35+42 | 1,33 | 1,33 | 1,33 | 2,67 | 3,34 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,60 | 1,60 | 1,60 | 3,20 | 4,00 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,56 - 4,44) | 1545 | 14,50 |
| 16+16+16+35+50 | 1,23 | 1,23 | 1,23 | 2,46 | 3,85 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,48 | 1,48 | 1,48 | 2,94 | 4,62 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,66 - 4,47) | 1570 | 14,80 |
| 16+16+16+35+71 | 1,07 | 1,07 | 1,07 | 2,12 | 4,67 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,28 | 1,28 | 1,28 | 2,56 | 5,60 | 12,00 (3,40 - 14,50) | 3,77 | 3,18 (0,68 - 4,45) | 1590 | 14,90 |
| 16+16+16+42+42 | 1,25 | 1,25 | 1,25 | 3,12 | 3,12 | 9,99 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,50 | 1,50 | 1,50 | 3,75 | 3,75 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,58 - 4,43) | 1540 | 14,50 |
| 16+16+16+42+50 | 1,16 | 1,16 | 1,16 | 2,90 | 3,62 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,62 - 4,09) | 1638 | 15,10 | 1,39 | 1,39 | 1,39 | 3,48 | 4,35 | 12,00 (3,40 - 14,50) | 3,83 | 3,13 (0,68 - 4,46) | 1565 | 14,70 |
| 16+16+16+42+71 | 1,01 | 1,01 | 1,01 | 2,53 | 4,44 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,22 | 1,22 | 1,22 | 3,02 | 5,32 | 12,00 (3,40 - 14,50) | 3,79 | 3,17 (0,69 - 4,44) | 1585 | 14,90 |
| 16+16+16+50+50 | 1,08 | 1,08 | 1,08 | 3,38 | 3,38 | 10,00 (2,90 - 11,50) | 3,00 | 3,33 (0,71 - 4,13) | 1665 | 15,40 | 1,30 | 1,30 | 1,30 | 4,05 | 4,05 | 12,00 (3,40 - 14,50) | 3,69 | 3,25 (0,79 - 4,50) | 1625 | 15,30 |
| 16+16+16+50+71 | 0,95 | 0,95 | 0,95 | 2,98 | 4,17 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,75 - 4,14) | 1670 | 15,40 | 1,14 | 1,14 | 1,14 | 3,57 | 5,01 | 12,00 (3,40 - 14,50) | 3,69 | 3,25 (0,81 - 4,49) | 1625 | 15,30 |
| 16+16+20+20+20 | 1,60 | 1,60 | 2,00 | 2,00 | 2,00 | 9,20 (2,90 - 11,50) | 3,26 | 2,82 (0,51 - 4,21) | 1410 | 13,00 | 2,09 | 2,09 | 2,61 | 2,60 | 2,60 | 11,99 (3,40 - 14,50) | 3,89 | 3,08 (0,52 - 4,40) | 1540 | 14,50 |
| 16+16+20+20+25 | 1,60 | 1,60 | 2,00 | 2,00 | 2,50 | 9,70 (2,90 - 11,50) | 3,16 | 3,07 (0,51 - 4,21) | 1535 | 14,20 | 1,98 | 1,98 | 2,47 | 2,47 | 3,10 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,52 - 4,40) | 1540 | 14,50 |
| 16+16+20+20+35 | 1,54 | 1,54 | 1,92 | 1,92 | 3,08 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 1,85 | 1,85 | 2,31 | 2,31 | 3,68 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,55 - 4,43) | 1530 | 14,40 |
| 16+16+20+20+42 | 1,43 | 1,43 | 1,79 | 1,79 | 3,56 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,71 | 1,71 | 2,14 | 2,14 | 4,30 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,55 - 4,41) | 1525 | 14,30 |
| 16+16+20+20+50 | 1,31 | 1,31 | 1,64 | 1,64 | 4,10 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,57 | 1,57 | 1,97 | 1,97 | 4,92 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,65 - 4,37) | 1550 | 14,60 |
| 16+16+20+20+71 | 1,13 | 1,13 | 1,41 | 1,41 | 4,92 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,35 | 1,35 | 1,69 | 1,69 | 5,92 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,66 - 4,36) | 1545 | 14,50 |
| 16+16+20+25+25 | 1,57 | 1,57 | 1,96 | 2,45 | 2,45 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,51 - 4,21) | 1605 | 14,80 | 1,88 | 1,88 | 2,36 | 2,94 | 2,94 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,52 - 4,40) | 1540 | 14,50 |
| 16+16+20+25+35 | 1,47 | 1,47 | 1,83 | 2,29 | 2,94 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 1,76 | 1,76 | 2,20 | 2,75 | 3,53 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,55 - 4,43) | 1530 | 14,40 |
| 16+16+20+25+42 | 1,37 | 1,37 | 1,70 | 2,14 | 3,42 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,64 | 1,64 | 2,05 | 2,56 | 4,11 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,55 - 4,41) | 1525 | 14,30 |
| 16+16+20+25+50 | 1,26 | 1,26 | 1,57 | 1,97 | 3,94 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,51 | 1,51 | 1,89 | 2,36 | 4,73 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,65 - 4,37) | 1550 | 14,60 |
| 16+16+20+25+71 | 1,09 | 1,09 | 1,36 | 1,70 | 4,76 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,31 | 1,31 | 1,63 | 2,04 | 5,71 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,66 - 4,36) | 1545 | 14,50 |
| 16+16+20+35+35 | 1,38 | 1,38 | 1,72 | 2,76 | 2,76 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,66 | 1,66 | 2,06 | 3,31 | 3,31 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,56 - 4,39) | 1520 | 14,30 |
| 16+16+20+35+42 | 1,29 | 1,29 | 1,61 | 2,58 | 3,23 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,55 | 1,55 | 1,93 | 3,10 | 3,87 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,58 - 4,38) | 1515 | 14,20 |
| 16+16+20+35+50 | 1,19 | 1,19 | 1,49 | 2,39 | 3,74 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,62 - 4,09) | 1638 | 15,10 | 1,43 | 1,43 | 1,79 | 2,87 | 4,48 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,68 - 4,41) | 1540 | 14,50 |
| 16+16+20+35+71 | 1,04 | 1,04 | 1,29 | 2,08 | 4,55 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,25 | 1,25 | 1,56 | 2,49 | 5,45 | 12,00 (3,40 - 14,50) | 3,85 | 3,12 (0,69 - 4,39) | 1560 | 14,70 |
| 16+16+20+42+42 | 1,21 | 1,21 | 1,52 | 3,03 | 3,03 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,45 | 1,45 | 1,82 | 3,64 | 3,64 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,58 - 4,37) | 1535 | 14,40 |
| 16+16+20+42+50 | 1,13 | 1,13 | 1,40 | 2,82 | 3,52 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,35 | 1,35 | 1,69 | 3,38 | 4,23 | 12,00 (3,40 - 14,50) | 3,83 | 3,13 (0,69 - 4,39) | 1565 | 14,70 |
| 16+16+20+42+71 | 0,99 | 0,99 | 1,23 | 2,47 | 4,32 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,19 | 1,19 | 1,47 | 2,96 | 5,19 | 12,00 (3,40 - 14,50) | 3,85 | 3,12 (0,70 - 4,38) | 1560 | 14,70 |
| 16+16+20+50+50 | 1,05 | 1,05 | 1,32 | 3,29 | 3,29 | 10,00 (2,90 - 11,50) | 3,00 | 3,33 (0,72 - 4,14) | 1665 | 15,40 | 1,26 | 1,26 | 1,58 | 3,95 | 3,95 | 12,00 (3,40 - 14,50) | 3,75 | 3,20 (0,80 - 4,44) | 1600 | 15,00 |
| 16+16+20+50+71 | 0,93 | 0,93 | 1,16 | 2,91 | 4,07 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,76 - 4,14) | 1670 | 15,40 | 1,12 | 1,12 | 1,39 | 3,49 | 4,88 | 12,00 (3,40 - 14,50) | 3,70 | 3,24 (0,82 - 4,49) | 1620 | 15,20 |
| 16+16+25+25+25 | 1,49 | 1,49 | 2,34 | 2,34 | 2,34 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,51 - 4,21) | 1605 | 14,80 | 1,80 | 1,80 | 2,80 | 2,80 | 2,80 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,52 - 4,40) | 1540 | 14,50 |
| 16+16+25+25+35 | 1,40 | 1,40 | 2,19 | 2,19 | 2,82 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 1,68 | 1,68 | 2,63 | 2,63 | 3,38 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,55 - 4,43) | 1530 | 14,40 |
| 16+16+25+25+42 | 1,31 | 1,31 | 2,05 | 2,05 | 3,28 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,57 | 1,57 | 2,46 | 2,46 | 3,94 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,55 - 4,41) | 1525 | 14,30 |
| 16+16+25+25+50 | 1,21 | 1,21 | 1,89 | 1,89 | 3,80 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,45 | 1,45 | 2,27 | 2,27 | 4,56 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,65 - 4,37) | 1550 | 14,60 |
| 16+16+25+25+71 | 1,05 | 1,05 | 1,64 | 1,64 | 4,62 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,26 | 1,26 | 1,97 | 1,97 | 5,54 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,66 - 4,36) | 1545 | 14,50 |
| 16+16+25+35+35 | 1,32 | 1,32 | 2,08 | 2,64 | 2,64 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,59 | 1,59 | 2,48 | 3,17 | 3,17 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,56 - 4,39) | 1520 | 14,30 |
| 16+16+25+35+42 | 1,24 | 1,24 | 1,94 | 2,48 | 3,10 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,49 | 1,49 | 2,32 | 2,98 | 3,72 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,58 - 4,38) | 1515 | 14,20 |
| 16+16+25+35+50 | 1,15 | 1,15 | 1,80 | 2,30 | 3,60 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,62 - 4,09) | 1638 | 15,10 | 1,38 | 1,38 | 2,16 | 2,76 | 4,32 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,68 - 4,41) | 1540 | 14,50 |
| 16+16+25+35+71 | 1,01 | 1,01 | 1,57 | 2,01 | 4,40 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,21 | 1,21 | 1,88 | 2,42 | 5,28 | 12,00 (3,40 - 14,50) | 3,85 | 3,12 (0,69 - 4,39) | 1560 | 14,70 |
| 16+16+25+42+42 | 1,17 | 1,17 | 1,82 | 2,92 | 2,92 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,40 | 1,40 | 2,20 | 3,50 | 3,50 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,58 - 4,37) | 1535 | 14,40 |
| 16+16+25+42+50 | 1,09 | 1,09 | 1,70 | 2,72 | 3,40 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,31 | 1,31 | 2,03 | 3,27 | 4,08 | 12,00 (3,40 - 14,50) | 3,83 | 3,13 (0,69 - 4,39) | 1565 | 14,70 |
| 16+16+25+42+71 | 0,96 | 0,96 | 1,49 | 2,40 | 4,19 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,15 | 1,15 | 1,80 | 2,87 | 5,03 | 12,00 (3,40 - 14,50) | 3,85 | 3,12 (0,70 - 4,38) | 1560 | 14,70 |
| 16+16+25+50+50 | 1,02 | 1,02 | 1,60 | 3,18 | 3,18 | 10,00 (2,90 - 11,50) | 3,00 | 3,33 (0,72 - 4,14) | 1665 | 15,40 | 1,22 | 1,22 | 1,92 | 3,82 | 3,82 | 12,00 (3,40 - 14,50) | 3,75 | 3,20 (0,80 - 4,44) | 1600 | 15,00 |
| 16+16+35+35+35 | 1,25 | 1,25 | 2,50 | 2,50 | 2,50 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,50 | 1,50 | 3,00 | 3,00 | 3,00 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,59 - 4,36) | 1535 | 14,40 |
| 16+16+35+35+42 | 1,18 | 1,18 | 2,35 | 2,35 | 2,94 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,41 | 1,41 | 2,82 | 2,82 | 3,54 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,59 - 4,35) | 1530 | 14,40 |
| 16+16+35+35+50 | 1,10 | 1,10 | 2,19 | 2,19 | 3,42 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,32 | 1,32 | 2,63 | 2,63 | 4,10 | 12,00 (3,40 - 14,50) | 3,85 | 3,12 (0,70 - 4,38) | 1560 | 14,70 |
| 16+16+35+35+71 | 0,96 | 0,96 | 1,93 | 1,93 | 4,22 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,16 | 1,16 | 2,31 | 2,31 | 5,06 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,72 - 4,36) | 1555 | 14,60 |
| 16+16+35+42+42 | 1,11 | 1,11 | 2,22 | 2,78 | 2,78 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,33 | 1,33 | 2,68 | 3,33 | 3,33 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,60 - 4,40) | 1525 | 14,30 |
| 16+16+35+42+50 | 1,04 | 1,04 | 2,07 | 2,60 | 3,25 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,25 | 1,25 | 2,48 | 3,12 | 3,90 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,72 - 4,37) | 1555 | 14,60 |
| 16+16+35+42+71 | 0,92 | 0,92 | 1,84 | 2,30 | 4,02 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,10 | 1,10 | 2,21 | 2,76 | 4,83 | 12,00 (3,40 - 14,50) | 3,81 | 3,15 (0,73 - 4,42) | 1575 | 14,80 |
| 16+16+35+50+50 | 0,98 | 0,98 | 1,94 | 3,05 | 3,05 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,76 - 4,14) | 1670 | 15,40 | 1,17 | 1,17 | 2,34 | 3,66 | 3,66 | 12,00 (3,40 - 14,50) | 3,70 | 3,24 (0,83 - 4,48) | 1620 | 15,20 |
| 16+16+42+42+42 | 1,05 | 1,05 | 2,63 | 2,63 | 2,63 | 9,99 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,26 | 1,26 | 3,16 | 3,16 | 3,16 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,62 - 4,39) | 1525 | 14,30 |
| 16+16+42+42+50 | 0,99 | 0,99 | 2,47 | 2,47 | 3,08 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,19 | 1,19 | 2,96 | 2,96 | 3,70 | 12,00 (3,40 - 14,50) | 3,80 | 3,16 (0,72 - 4,42) | 1580 | 14,80 |
| 16+16+42+50+50 | 0,93 | 0,93 | 2,32 | 2,91 | 2,91 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,76 - 4,14) | 1670 | 15,40 | 1,12 | 1,12 | 2,78 | 3,49 | 3,49 | 12,00 (3,40 - 14,50) | 3,72 | 3,23 (0,85 - 4,47) | 1615 | 15,20 |
| 16+20+20+20+20 | 1,60 | 2,00 | 2,00 | 2,00 | 2,00 | 9,60 (2,90 - 11,50) | 3,20 | 3,00 (0,52 - 4,21) | 1500 | 13,80 | 2,00 | 2,50 | 2,50 | 2,50 | 2,50 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,53 - 4,40) | 1510 | 14,20 |
| 16+20+20+20+25 | 1,58 | 1,98 | 1,98 | 1,98 | 2,48 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,89 | 2,38 | 2,38 | 2,38 | 2,97 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,53 - 4,40) | 1510 | 14,20 |
| 16+20+20+20+35 | 1,48 | 1,85 | 1,85 | 1,85 | 2,97 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,78 | 2,22 | 2,22 | 2,22 | 3,56 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,55 - 4,36) | 1500 | 14,10 |
| 16+20+20+20+42 | 1,38 | 1,72 | 1,72 | 1,72 | 3,46 | 10,00 (2,90 - 11,50) | 3,18 | 3,14 (0,55 - 4,13) | 1570 | 14,50 | 1,65 | 2,07 | 2,07 | 2,07 | 4,14 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,56 - 4,35) | 1495 | 14,10 |
| 16+20+20+20+50 | 1,26 | 1,59 | 1,59 | 1,59 | 3,97 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,52 | 1,90 | 1,90 | 1,90 | 4,78 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,66 - 4,31) | 1520 | 14,30 |
| 16+20+20+20+71 | 1,10 | 1,37 | 1,37 | 1,37 | 4,79 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,32 | 1,64 | 1,64 | 1,64 | 5,76 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,67 - 4,36) | 1520 | 14,30 |
| 16+20+20+25+25 | 1,50 | 1,89 | 1,89 | 2,36 | 2,36 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,82 | 2,26 | 2,26 | 2,83 | 2,83 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,53 - 4,40) | 1510 | 14,20 |
| 16+20+20+25+35 | 1,42 | 1,77 | 1,77 | 2,21 | 2,83 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,70 | 2,12 | 2,12 | 2,65 | 3,41 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,55 - 4,36) | 1500 | 14,10 |
| 16+20+20+25+42 | 1,32 | 1,65 | 1,65 | 2,07 | 3,31 | 10,00 (2,90 - 11,50) | 3,18 | 3,14 (0,55 - 4,13) | 1570 | 14,50 | 1,59 | 1,98 | 1,98 | 2,48 | 3,97 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,56 - 4,35) | 1495 | 14,10 |
| 16+20+20+25+50 | 1,21 | 1,53 | 1,53 | 1,91 | 3,82 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,47 | 1,83 | 1,83 | 2,29 | 4,58 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,66 - 4,31) | 1520 | 14,30 |
| 16+20+20+25+71 | 1,06 | 1,32 | 1,32 | 1,66 | 4,64 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,27 | 1,59 | 1,59 | 1,99 | 5,56 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,67 - 4,36) | 1520 | 14,30 |
| 16+20+20+35+35 | 1,32 | 1,67 | 1,67 | 2,67 | 2,67 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,60 | 2,00 | 2,00 | 3,20 | 3,20 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,58 - 4,33) | 1490 | 14,00 |
| 16+20+20+35+42 | 1,25 | 1,56 | 1,56 | 2,50 | 3,13 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,49 | 1,88 | 1,88 | 3,00 | 3,75 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,58 - 4,32) | 1510 | 14,20 |
| 16+20+20+35+50 | 1,16 | 1,45 | 1,45 | 2,32 | 3,62 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,39 | 1,74 | 1,74 | 2,78 | 4,35 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,69 - 4,34) | 1540 | 14,50 |
| 16+20+20+35+71 | 1,00 | 1,27 | 1,27 | 2,03 | 4,43 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,21 | 1,52 | 1,52 | 2,43 | 5,32 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,70 - 4,33) | 1535 | 14,40 |
| 16+20+20+42+42 | 1,18 | 1,47 | 1,47 | 2,94 | 2,94 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,42 | 1,76 | 1,76 | 3,53 | 3,53 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,59 - 4,31) | 1505 | 14,10 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Free Multi R410A combinations table

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 16+20+20+42+50 | 1,10 | 1,37 | 1,37 | 2,74 | 3,42 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,32 | 1,64 | 1,64 | 3,29 | 4,11 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,69 - 4,33) | 1535 | 14,40 |
| 16+20+20+42+71 | 0,96 | 1,20 | 1,20 | 2,41 | 4,23 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,15 | 1,45 | 1,45 | 2,89 | 5,06 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,71 - 4,32) | 1530 | 14,40 |
| 16+20+20+50+50 | 1,02 | 1,28 | 1,28 | 3,21 | 3,21 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,72 - 4,14) | 1670 | 15,40 | 1,22 | 1,54 | 1,54 | 3,85 | 3,85 | 12,00 (3,40 - 14,50) | 3,76 | 3,19 (0,82 - 4,38) | 1595 | 15,00 |
| 16+20+25+25+25 | 1,44 | 1,81 | 2,25 | 2,25 | 2,25 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,73 | 2,17 | 2,70 | 2,70 | 2,70 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,53 - 4,40) | 1510 | 14,20 |
| 16+20+25+25+35 | 1,36 | 1,69 | 2,12 | 2,12 | 2,71 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,63 | 2,03 | 2,54 | 2,54 | 3,26 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,55 - 4,36) | 1500 | 14,10 |
| 16+20+25+25+42 | 1,27 | 1,59 | 1,98 | 1,98 | 3,18 | 10,00 (2,90 - 11,50) | 3,18 | 3,14 (0,55 - 4,13) | 1570 | 14,50 | 1,52 | 1,90 | 2,38 | 2,38 | 3,82 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,56 - 4,35) | 1495 | 14,10 |
| 16+20+25+25+50 | 1,17 | 1,47 | 1,84 | 1,84 | 3,68 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,41 | 1,76 | 2,21 | 2,21 | 4,41 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,66 - 4,31) | 1520 | 14,30 |
| 16+20+25+25+71 | 1,03 | 1,28 | 1,60 | 1,60 | 4,49 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,23 | 1,54 | 1,92 | 1,92 | 5,39 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,67 - 4,36) | 1520 | 14,30 |
| 16+20+25+35+35 | 1,28 | 1,60 | 2,00 | 2,56 | 2,56 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,54 | 1,92 | 2,40 | 3,07 | 3,07 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,58 - 4,33) | 1490 | 14,00 |
| 16+20+25+35+42 | 1,20 | 1,50 | 1,88 | 2,41 | 3,01 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,44 | 1,80 | 2,26 | 2,89 | 3,61 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,58 - 4,32) | 1510 | 14,20 |
| 16+20+25+35+50 | 1,11 | 1,40 | 1,75 | 2,24 | 3,50 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,33 | 1,68 | 2,10 | 2,69 | 4,20 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,69 - 4,34) | 1540 | 14,50 |
| 16+20+25+35+71 | 0,98 | 1,23 | 1,53 | 1,96 | 4,30 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,18 | 1,47 | 1,84 | 2,36 | 5,15 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,70 - 4,33) | 1535 | 14,40 |
| 16+20+25+42+42 | 1,13 | 1,42 | 1,77 | 2,84 | 2,84 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,36 | 1,70 | 2,14 | 3,40 | 3,40 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,59 - 4,31) | 1505 | 14,10 |
| 16+20+25+42+50 | 1,06 | 1,32 | 1,66 | 2,65 | 3,31 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,27 | 1,59 | 1,99 | 3,18 | 3,97 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,69 - 4,33) | 1535 | 14,40 |
| 16+20+25+42+71 | 0,94 | 1,17 | 1,46 | 2,34 | 4,09 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,12 | 1,40 | 1,75 | 2,81 | 4,92 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,71 - 4,32) | 1530 | 14,40 |
| 16+20+25+50+50 | 0,99 | 1,24 | 1,55 | 3,11 | 3,11 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,72 - 4,14) | 1670 | 15,40 | 1,19 | 1,49 | 1,86 | 3,73 | 3,73 | 12,00 (3,40 - 14,50) | 3,76 | 3,19 (0,82 - 4,38) | 1595 | 15,00 |
| 16+20+35+35+35 | 1,21 | 1,53 | 2,42 | 2,42 | 2,42 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,45 | 1,82 | 2,91 | 2,91 | 2,91 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,59 - 4,30) | 1505 | 14,10 |
| 16+20+35+35+42 | 1,13 | 1,43 | 2,29 | 2,29 | 2,86 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,37 | 1,71 | 2,74 | 2,74 | 3,44 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,60 - 4,35) | 1500 | 14,10 |
| 16+20+35+35+50 | 1,07 | 1,33 | 2,13 | 2,13 | 3,34 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,28 | 1,60 | 2,56 | 2,56 | 4,00 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,72 - 4,32) | 1530 | 14,40 |
| 16+20+35+35+71 | 0,94 | 1,18 | 1,88 | 1,88 | 4,12 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,13 | 1,41 | 2,26 | 2,26 | 4,94 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,73 - 4,37) | 1550 | 14,60 |
| 16+20+35+42+42 | 1,08 | 1,35 | 2,17 | 2,70 | 2,70 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,57 - 4,05) | 1575 | 14,50 | 1,30 | 1,62 | 2,60 | 3,24 | 3,24 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,62 - 4,34) | 1500 | 14,10 |
| 16+20+35+42+50 | 1,01 | 1,27 | 2,03 | 2,53 | 3,16 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,21 | 1,52 | 2,43 | 3,04 | 3,80 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,72 - 4,37) | 1555 | 14,60 |
| 16+20+35+50+50 | 0,95 | 1,19 | 1,90 | 2,98 | 2,98 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,76 - 4,14) | 1670 | 15,40 | 1,14 | 1,43 | 2,29 | 3,57 | 3,57 | 12,00 (3,40 - 14,50) | 3,77 | 3,18 (0,85 - 4,42) | 1590 | 14,90 |
| 16+20+42+42+42 | 1,03 | 1,29 | 2,56 | 2,56 | 2,56 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,22 | 1,54 | 3,08 | 3,08 | 3,08 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,62 - 4,33) | 1495 | 14,10 |
| 16+20+42+42+50 | 0,96 | 1,20 | 2,41 | 2,41 | 3,02 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,16 | 1,45 | 2,89 | 2,89 | 3,61 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,73 - 4,36) | 1550 | 14,60 |
| 16+25+25+25+25 | 1,36 | 2,16 | 2,16 | 2,16 | 2,16 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,52 - 4,21) | 1605 | 14,80 | 1,64 | 2,59 | 2,59 | 2,59 | 2,59 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,53 - 4,40) | 1510 | 14,20 |
| 16+25+25+25+35 | 1,30 | 2,03 | 2,03 | 2,03 | 2,61 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,55 - 4,13) | 1610 | 14,80 | 1,56 | 2,44 | 2,44 | 2,44 | 3,12 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,55 - 4,36) | 1500 | 14,10 |
| 16+25+25+25+42 | 1,22 | 1,91 | 1,91 | 1,91 | 3,05 | 10,00 (2,90 - 11,50) | 3,18 | 3,14 (0,55 - 4,13) | 1570 | 14,50 | 1,47 | 2,29 | 2,29 | 2,29 | 3,66 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,56 - 4,35) | 1495 | 14,10 |
| 16+25+25+25+50 | 1,13 | 1,77 | 1,77 | 1,77 | 3,56 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,35 | 2,13 | 2,13 | 2,13 | 4,26 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,66 - 4,31) | 1520 | 14,30 |
| 16+25+25+25+71 | 0,99 | 1,55 | 1,55 | 1,55 | 4,36 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,19 | 1,86 | 1,86 | 1,86 | 5,23 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,67 - 4,36) | 1520 | 14,30 |
| 16+25+25+35+35 | 1,24 | 1,92 | 1,92 | 2,46 | 2,46 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,48 | 2,31 | 2,31 | 2,95 | 2,95 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,58 - 4,33) | 1490 | 14,00 |
| 16+25+25+35+42 | 1,16 | 1,81 | 1,81 | 2,32 | 2,90 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,39 | 2,17 | 2,17 | 2,78 | 3,49 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,58 - 4,32) | 1510 | 14,20 |
| 16+25+25+35+50 | 1,08 | 1,69 | 1,69 | 2,16 | 3,38 | 10,00 (2,90 - 11,50) | 3,05 | 3,28 (0,65 - 4,09) | 1638 | 15,10 | 1,30 | 2,03 | 2,03 | 2,59 | 4,05 | 12,00 (3,40 - 14,50) | 3,90 | 3,08 (0,69 - 4,34) | 1540 | 14,50 |
| 16+25+25+35+71 | 0,95 | 1,49 | 1,49 | 1,90 | 4,17 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,13 | 1,79 | 1,79 | 2,29 | 5,00 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,70 - 4,33) | 1535 | 14,40 |
| 16+25+25+42+42 | 1,10 | 1,71 | 1,71 | 2,74 | 2,74 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,32 | 2,05 | 2,05 | 3,29 | 3,29 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,59 - 4,31) | 1505 | 14,10 |
| 16+25+25+42+50 | 1,03 | 1,60 | 1,60 | 2,56 | 3,21 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,23 | 1,92 | 1,92 | 3,08 | 3,85 | 12,00 (3,40 - 14,50) | 3,91 | 3,07 (0,69 - 4,33) | 1535 | 14,40 |
| 16+25+25+50+50 | 0,96 | 1,51 | 1,51 | 3,01 | 3,01 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,72 - 4,14) | 1670 | 15,40 | 1,16 | 1,81 | 1,81 | 3,61 | 3,61 | 12,00 (3,40 - 14,50) | 3,76 | 3,19 (0,82 - 4,38) | 1595 | 15,00 |
| 16+25+35+35+35 | 1,16 | 1,82 | 2,34 | 2,34 | 2,34 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,40 | 2,20 | 2,80 | 2,80 | 2,80 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,59 - 4,30) | 1505 | 14,10 |
| 16+25+35+35+42 | 1,10 | 1,72 | 2,21 | 2,21 | 2,76 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,32 | 2,07 | 2,65 | 2,65 | 3,31 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,60 - 4,35) | 1500 | 14,10 |
| 16+25+35+35+50 | 1,03 | 1,61 | 2,06 | 2,06 | 3,24 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,23 | 1,94 | 2,48 | 2,48 | 3,87 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,72 - 4,32) | 1530 | 14,40 |
| 16+25+35+35+71 | 0,91 | 1,43 | 1,83 | 1,83 | 4,00 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,10 | 1,71 | 2,19 | 2,19 | 4,81 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,73 - 4,37) | 1550 | 14,60 |
| 16+25+35+42+42 | 1,05 | 1,63 | 2,10 | 2,61 | 2,61 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,57 - 4,05) | 1575 | 14,50 | 1,25 | 1,96 | 2,51 | 3,14 | 3,14 | 12,00 (3,40 - 14,50) | 4,00 | 3,00 (0,62 - 4,34) | 1500 | 14,10 |
| 16+25+35+42+50 | 0,98 | 1,53 | 1,96 | 2,45 | 3,08 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,18 | 1,84 | 2,36 | 2,94 | 3,68 | 12,00 (3,40 - 14,50) | 3,86 | 3,11 (0,72 - 4,37) | 1555 | 14,60 |
| 16+25+35+50+50 | 0,92 | 1,45 | 1,85 | 2,89 | 2,89 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,76 - 4,14) | 1670 | 15,40 | 1,11 | 1,73 | 2,22 | 3,47 | 3,47 | 12,00 (3,40 - 14,50) | 3,77 | 3,18 (0,85 - 4,42) | 1590 | 14,90 |
| 16+25+42+42+42 | 0,99 | 1,57 | 2,48 | 2,48 | 2,48 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,19 | 1,87 | 2,98 | 2,98 | 2,98 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,62 - 4,33) | 1495 | 14,10 |
| 16+25+42+42+50 | 0,94 | 1,46 | 2,34 | 2,34 | 2,92 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,12 | 1,75 | 2,81 | 2,81 | 3,51 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,73 - 4,36) | 1550 | 14,60 |
| 16+35+35+35+35 | 1,12 | 2,22 | 2,22 | 2,22 | 2,22 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,32 | 2,67 | 2,67 | 2,67 | 2,67 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,62 - 4,33) | 1495 | 14,10 |
| 16+35+35+35+42 | 1,04 | 2,11 | 2,11 | 2,11 | 2,63 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,25 | 2,53 | 2,53 | 2,53 | 3,16 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,63 - 4,32) | 1515 | 14,20 |
| 16+35+35+35+50 | 0,97 | 1,98 | 1,98 | 1,98 | 3,09 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,19 | 2,37 | 2,37 | 2,37 | 3,70 | 12,00 (3,40 - 14,50) | 3,87 | 3,10 (0,75 - 4,35) | 1550 | 14,60 |
| 16+35+35+42+42 | 1,00 | 2,00 | 2,00 | 2,50 | 2,50 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,20 | 2,40 | 2,40 | 3,00 | 3,00 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,63 - 4,31) | 1515 | 14,20 |
| 16+35+35+42+50 | 0,94 | 1,88 | 1,88 | 2,35 | 2,95 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,13 | 2,26 | 2,26 | 2,82 | 3,53 | 12,00 (3,40 - 14,50) | 3,88 | 3,09 (0,75 - 4,34) | 1545 | 14,50 |
| 16+35+42+42+42 | 0,95 | 1,91 | 2,38 | 2,38 | 2,38 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,06) | 1580 | 14,60 | 1,13 | 2,29 | 2,86 | 2,86 | 2,86 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,65 - 4,29) | 1510 | 14,20 |
| 20+20+20+20+20 | 2,00 | 2,00 | 2,00 | 2,00 | 2,00 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,40 | 2,40 | 2,40 | 2,40 | 2,40 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| | | | | | | | 6,40 A++ 1) | | | | | | | | | | 4,00 A+ 1) | | | |
| 20+20+20+20+25 | 1,90 | 1,90 | 1,90 | 1,90 | 2,40 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,29 | 2,29 | 2,29 | 2,29 | 2,84 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| | | | | | | | 6,40 A++ 1) | | | | | | | | | | 4,00 A+ 1) | | | |
| 20+20+20+20+35 | 1,79 | 1,79 | 1,79 | 1,79 | 2,84 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 2,14 | 2,14 | 2,14 | 2,14 | 3,44 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,56 - 4,30) | 1470 | 13,80 |
| 20+20+20+20+42 | 1,67 | 1,67 | 1,67 | 1,67 | 3,32 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 2,00 | 2,00 | 2,00 | 2,00 | 4,00 | 12,00 (3,40 - 14,50) | 4,10 | 2,93 (0,56 - 4,29) | 1465 | 13,80 |
| 20+20+20+20+50 | 1,54 | 1,54 | 1,54 | 1,54 | 3,84 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,85 | 1,85 | 1,85 | 1,85 | 4,60 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,67 - 4,31) | 1495 | 14,10 |
| 20+20+20+20+71 | 1,33 | 1,33 | 1,33 | 1,33 | 4,68 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,60 | 1,60 | 1,60 | 1,60 | 5,60 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,68 - 4,30) | 1515 | 14,20 |
| 20+20+20+25+25 | 1,82 | 1,82 | 1,82 | 2,27 | 2,27 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,18 | 2,18 | 2,18 | 2,73 | 2,73 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| 20+20+20+25+35 | 1,71 | 1,71 | 1,71 | 2,13 | 2,74 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 2,05 | 2,05 | 2,05 | 2,56 | 3,29 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,56 - 4,30) | 1470 | 13,80 |
| 20+20+20+25+42 | 1,60 | 1,60 | 1,60 | 2,00 | 3,20 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,92 | 1,92 | 1,92 | 2,40 | 3,84 | 12,00 (3,40 - 14,50) | 4,10 | 2,93 (0,56 - 4,29) | 1465 | 13,80 |
| 20+20+20+25+50 | 1,48 | 1,48 | 1,48 | 1,85 | 3,71 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,78 | 1,78 | 1,78 | 2,22 | 4,44 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,67 - 4,31) | 1495 | 14,10 |
| 20+20+20+25+71 | 1,29 | 1,29 | 1,29 | 1,61 | 4,52 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,55 | 1,55 | 1,55 | 1,93 | 5,42 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,68 - 4,30) | 1515 | 14,20 |
| 20+20+20+35+35 | 1,60 | 1,60 | 1,60 | 2,60 | 2,60 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,94 | 1,94 | 1,94 | 3,09 | 3,09 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,58 - 4,27) | 1485 | 14,00 |
| 20+20+20+35+42 | 1,52 | 1,52 | 1,52 | 2,41 | 3,03 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,82 | 1,82 | 1,82 | 2,90 | 3,64 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,59 - 4,26) | 1480 | 13,90 |
| 20+20+20+35+50 | 1,41 | 1,41 | 1,41 | 2,25 | 3,52 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,69 | 1,69 | 1,69 | 2,70 | 4,23 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,69 - 4,28) | 1510 | 14,20 |
| 20+20+20+35+71 | 1,23 | 1,23 | 1,23 | 1,98 | 4,33 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,48 | 1,48 | 1,48 | 2,37 | 5,19 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,71 - 4,27) | 1505 | 14,10 |
| 20+20+20+42+42 | 1,42 | 1,42 | 1,42 | 2,87 | 2,87 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,72 | 1,72 | 1,72 | 3,42 | 3,42 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,60 - 4,24) | 1480 | 13,90 |
| 20+20+20+42+50 | 1,33 | 1,33 | 1,33 | 2,67 | 3,34 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,60 | 1,60 | 1,60 | 3,20 | 4,00 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,70 - 4,27) | 1510 | 14,20 |
| 20+20+20+42+71 | 1,18 | 1,18 | 1,18 | 2,34 | 4,12 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,41 | 1,41 | 1,41 | 2,82 | 4,95 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,72 - 4,32) | 1505 | 14,10 |
| 20+20+20+50+50 | 1,24 | 1,24 | 1,24 | 3,14 | 3,14 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,75 - 4,14) | 1670 | 15,40 | 1,50 | 1,50 | 1,50 | 3,75 | 3,75 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,83 - 4,38) | 1570 | 14,80 |
| 20+20+25+25+25 | 1,73 | 1,73 | 2,18 | 2,18 | 2,18 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,10 | 2,10 | 2,60 | 2,60 | 2,60 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| 20+20+25+25+35 | 1,64 | 1,64 | 2,05 | 2,05 | 2,62 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,97 | 1,97 | 2,46 | 2,46 | 3,14 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,56 - 4,30) | 1470 | 13,80 |
| 20+20+25+25+42 | 1,54 | 1,54 | 1,92 | 1,92 | 3,08 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,85 | 1,85 | 2,31 | 2,31 | 3,68 | 12,00 (3,40 - 14,50) | 4,10 | 2,93 (0,56 - 4,29) | 1465 | 13,80 |
| 20+20+25+25+50 | 1,43 | 1,43 | 1,79 | 1,79 | 3,56 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,71 | 1,71 | 2,14 | 2,14 | 4,30 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,67 - 4,31) | 1495 | 14,10 |
| 20+20+25+25+71 | 1,25 | 1,25 | 1,56 | 1,56 | 4,38 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,50 | 1,50 | 1,88 | 1,88 | 5,24 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,68 - 4,30) | 1515 | 14,20 |

## Free Multi 5x1 CU-5E34PBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 17,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | | | EER | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | | | COP | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V | A | B | C | D | E | Total (Min - Max) | W/W | kW | kWh | 230V |
| 20+20+25+35+35 | 1,55 | 1,55 | 1,94 | 2,48 | 2,48 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,86 | 1,86 | 2,32 | 2,98 | 2,98 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,58 - 4,27) | 1485 | 14,00 |
| 20+20+25+35+42 | 1,46 | 1,46 | 1,82 | 2,34 | 2,92 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,75 | 1,75 | 2,19 | 2,80 | 3,51 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,59 - 4,26) | 1480 | 13,90 |
| 20+20+25+35+50 | 1,36 | 1,36 | 1,70 | 2,18 | 3,40 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,63 | 1,63 | 2,04 | 2,61 | 4,09 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,69 - 4,28) | 1510 | 14,20 |
| 20+20+25+35+71 | 1,20 | 1,20 | 1,49 | 1,92 | 4,19 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,44 | 1,44 | 1,79 | 2,30 | 5,03 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,71 - 4,27) | 1505 | 14,10 |
| 20+20+25+42+42 | 1,38 | 1,38 | 1,72 | 2,76 | 2,76 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,66 | 1,66 | 2,06 | 3,31 | 3,31 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,60 - 4,24) | 1480 | 13,90 |
| 20+20+25+42+50 | 1,29 | 1,29 | 1,61 | 2,58 | 3,23 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,55 | 1,55 | 1,93 | 3,10 | 3,87 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,70 - 4,27) | 1510 | 14,20 |
| 20+20+25+42+71 | 1,14 | 1,14 | 1,43 | 2,29 | 4,00 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,37 | 1,37 | 1,71 | 2,74 | 4,81 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,72 - 4,32) | 1505 | 14,10 |
| 20+20+25+50+50 | 1,21 | 1,21 | 1,52 | 3,03 | 3,03 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,75 - 4,14) | 1670 | 15,40 | 1,45 | 1,45 | 1,82 | 3,64 | 3,64 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,83 - 4,38) | 1570 | 14,80 |
| 20+20+35+35+35 | 1,46 | 1,46 | 2,36 | 2,36 | 2,36 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,77 | 1,77 | 2,82 | 2,82 | 2,82 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,60 - 4,30) | 1475 | 13,90 |
| 20+20+35+35+42 | 1,39 | 1,39 | 2,22 | 2,22 | 2,78 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,57 - 4,05) | 1575 | 14,50 | 1,67 | 1,67 | 2,67 | 2,67 | 3,32 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,62 - 4,29) | 1475 | 13,90 |
| 20+20+35+35+50 | 1,30 | 1,30 | 2,08 | 2,08 | 3,24 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,56 | 1,56 | 2,49 | 2,49 | 3,90 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,72 - 4,32) | 1530 | 14,40 |
| 20+20+35+35+71 | 1,15 | 1,15 | 1,84 | 1,84 | 4,02 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,70 - 4,10) | 1608 | 14,80 | 1,38 | 1,38 | 2,21 | 2,21 | 4,82 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,73 - 4,31) | 1525 | 14,30 |
| 20+20+35+42+42 | 1,32 | 1,32 | 2,10 | 2,63 | 2,63 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,58 | 1,58 | 2,52 | 3,16 | 3,16 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,62 - 4,28) | 1470 | 13,80 |
| 20+20+35+42+50 | 1,23 | 1,23 | 1,98 | 2,47 | 3,09 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,48 | 1,48 | 2,37 | 2,96 | 3,71 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,73 - 4,31) | 1525 | 14,30 |
| 20+20+35+50+50 | 1,16 | 1,16 | 1,86 | 2,91 | 2,91 | 10,00 (2,90 - 11,50) | 2,99 | 3,35 (0,76 - 4,15) | 1675 | 15,40 | 1,40 | 1,40 | 2,22 | 3,49 | 3,49 | 12,00 (3,40 - 14,50) | 3,77 | 3,18 (0,86 - 4,36) | 1590 | 14,90 |
| 20+20+42+42+42 | 1,25 | 1,25 | 2,50 | 2,50 | 2,50 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,50 | 1,50 | 3,00 | 3,00 | 3,00 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,26) | 1490 | 14,00 |
| 20+20+42+42+50 | 1,18 | 1,18 | 2,35 | 2,35 | 2,94 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,41 | 1,41 | 2,82 | 2,82 | 3,54 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,75 - 4,30) | 1525 | 14,30 |
| 20+25+25+25+25 | 1,68 | 2,08 | 2,08 | 2,08 | 2,08 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,00 | 2,50 | 2,50 | 2,50 | 2,50 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| 20+25+25+25+35 | 1,57 | 1,97 | 1,97 | 1,97 | 2,52 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,89 | 2,36 | 2,36 | 2,36 | 3,03 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,56 - 4,30) | 1470 | 13,80 |
| 20+25+25+25+42 | 1,48 | 1,85 | 1,85 | 1,85 | 2,97 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 1,78 | 2,22 | 2,22 | 2,22 | 3,56 | 12,00 (3,40 - 14,50) | 4,10 | 2,93 (0,56 - 4,29) | 1465 | 13,80 |
| 20+25+25+25+50 | 1,38 | 1,72 | 1,72 | 1,72 | 3,46 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 1,65 | 2,07 | 2,07 | 2,07 | 4,14 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,67 - 4,31) | 1495 | 14,10 |
| 20+25+25+25+71 | 1,20 | 1,52 | 1,52 | 1,52 | 4,24 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,45 | 1,82 | 1,82 | 1,82 | 5,09 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,68 - 4,30) | 1515 | 14,20 |
| 20+25+25+35+35 | 1,48 | 1,87 | 1,87 | 2,39 | 2,39 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,78 | 2,24 | 2,24 | 2,87 | 2,87 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,58 - 4,27) | 1485 | 14,00 |
| 20+25+25+35+42 | 1,41 | 1,76 | 1,76 | 2,25 | 2,82 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,69 | 2,11 | 2,11 | 2,70 | 3,39 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,59 - 4,26) | 1480 | 13,90 |
| 20+25+25+35+50 | 1,32 | 1,64 | 1,64 | 2,11 | 3,29 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,58 | 1,97 | 1,97 | 2,53 | 3,95 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,69 - 4,28) | 1510 | 14,20 |
| 20+25+25+35+71 | 1,16 | 1,45 | 1,45 | 1,86 | 4,08 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,40 | 1,74 | 1,74 | 2,23 | 4,89 | 12,00 (3,40 - 14,50) | 3,99 | 3,01 (0,71 - 4,27) | 1505 | 14,10 |
| 20+25+25+42+42 | 1,32 | 1,67 | 1,67 | 2,67 | 2,67 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,60 | 2,00 | 2,00 | 3,20 | 3,20 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,60 - 4,24) | 1480 | 13,90 |
| 20+25+25+42+50 | 1,25 | 1,56 | 1,56 | 2,50 | 3,13 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,49 | 1,88 | 1,88 | 3,00 | 3,75 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,70 - 4,27) | 1510 | 14,20 |
| 20+25+25+50+50 | 1,18 | 1,47 | 1,47 | 2,94 | 2,94 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,75 - 4,14) | 1670 | 15,40 | 1,42 | 1,76 | 1,76 | 3,53 | 3,53 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,83 - 4,38) | 1570 | 14,80 |
| 20+25+35+35+35 | 1,42 | 1,77 | 2,27 | 2,27 | 2,27 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 1,70 | 2,14 | 2,72 | 2,72 | 2,72 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,60 - 4,30) | 1475 | 13,90 |
| 20+25+35+35+42 | 1,34 | 1,68 | 2,15 | 2,15 | 2,68 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,57 - 4,05) | 1575 | 14,50 | 1,61 | 2,01 | 2,58 | 2,58 | 3,22 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,62 - 4,29) | 1475 | 13,90 |
| 20+25+35+35+50 | 1,26 | 1,57 | 2,01 | 2,01 | 3,15 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,50 | 1,89 | 2,42 | 2,42 | 3,77 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,72 - 4,32) | 1530 | 14,40 |
| 20+25+35+42+42 | 1,27 | 1,59 | 2,04 | 2,55 | 2,55 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,52 | 1,91 | 2,45 | 3,06 | 3,06 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,62 - 4,28) | 1470 | 13,80 |
| 20+25+35+42+50 | 1,19 | 1,50 | 1,92 | 2,40 | 2,99 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,44 | 1,80 | 2,30 | 2,87 | 3,59 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,73 - 4,31) | 1525 | 14,30 |
| 20+25+42+42+42 | 1,21 | 1,53 | 2,42 | 2,42 | 2,42 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,45 | 1,82 | 2,91 | 2,91 | 2,91 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,26) | 1490 | 14,00 |
| 20+25+42+42+50 | 1,13 | 1,43 | 2,29 | 2,29 | 2,86 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,37 | 1,71 | 2,74 | 2,74 | 3,44 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,75 - 4,30) | 1525 | 14,30 |
| 20+35+35+35+35 | 1,36 | 2,16 | 2,16 | 2,16 | 2,16 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,64 | 2,59 | 2,59 | 2,59 | 2,59 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,27) | 1490 | 14,00 |
| 20+35+35+35+42 | 1,28 | 2,05 | 2,05 | 2,05 | 2,57 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,54 | 2,46 | 2,46 | 2,46 | 3,08 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,26) | 1490 | 14,00 |
| 20+35+35+35+50 | 1,20 | 1,93 | 1,93 | 1,93 | 3,01 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,45 | 2,31 | 2,31 | 2,31 | 3,62 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,75 - 4,29) | 1520 | 14,30 |
| 20+35+35+42+42 | 1,22 | 1,95 | 1,95 | 2,44 | 2,44 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,06) | 1580 | 14,60 | 1,46 | 2,34 | 2,34 | 2,93 | 2,93 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,65 - 4,24) | 1485 | 14,00 |
| 20+35+35+42+50 | 1,15 | 1,84 | 1,84 | 2,30 | 2,87 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,37 | 2,21 | 2,21 | 2,76 | 3,45 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,76 - 4,28) | 1520 | 14,30 |
| 20+35+42+42+42 | 1,15 | 1,86 | 2,33 | 2,33 | 2,33 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,06) | 1580 | 14,60 | 1,40 | 2,23 | 2,79 | 2,79 | 2,79 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,66 - 4,23) | 1480 | 13,90 |
| 25+25+25+25+25 | 2,00 | 2,00 | 2,00 | 2,00 | 2,00 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,55 - 4,21) | 1605 | 14,80 | 2,40 | 2,40 | 2,40 | 2,40 | 2,40 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,53 - 4,34) | 1480 | 13,90 |
| 25+25+25+25+35 | 1,89 | 1,89 | 1,89 | 1,89 | 2,44 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 2,27 | 2,27 | 2,27 | 2,27 | 2,92 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,56 - 4,30) | 1470 | 13,80 |
| 25+25+25+25+42 | 1,79 | 1,79 | 1,79 | 1,79 | 2,84 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,55 - 4,13) | 1575 | 14,50 | 2,14 | 2,14 | 2,14 | 2,14 | 3,44 | 12,00 (3,40 - 14,50) | 4,10 | 2,93 (0,56 - 4,29) | 1465 | 13,80 |
| 25+25+25+25+50 | 1,67 | 1,67 | 1,67 | 1,67 | 3,32 | 10,00 (2,90 - 11,50) | 3,06 | 3,27 (0,61 - 4,09) | 1633 | 15,10 | 2,00 | 2,00 | 2,00 | 2,00 | 4,00 | 12,00 (3,40 - 14,50) | 4,01 | 2,99 (0,67 - 4,31) | 1495 | 14,10 |
| 25+25+25+25+71 | 1,47 | 1,47 | 1,47 | 1,47 | 4,12 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,76 | 1,76 | 1,76 | 1,76 | 4,96 | 12,00 (3,40 - 14,50) | 3,96 | 3,03 (0,68 - 4,30) | 1515 | 14,20 |
| 25+25+25+35+35 | 1,80 | 1,80 | 1,80 | 2,30 | 2,30 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 2,16 | 2,16 | 2,16 | 2,76 | 2,76 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,58 - 4,27) | 1485 | 14,00 |
| 25+25+25+35+42 | 1,70 | 1,70 | 1,70 | 2,18 | 2,72 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 2,04 | 2,04 | 2,04 | 2,61 | 3,27 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,59 - 4,26) | 1480 | 13,90 |
| 25+25+25+35+50 | 1,59 | 1,59 | 1,59 | 2,04 | 3,19 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,09) | 1603 | 14,80 | 1,91 | 1,91 | 1,91 | 2,45 | 3,82 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,69 - 4,28) | 1510 | 14,20 |
| 25+25+25+42+42 | 1,62 | 1,62 | 1,62 | 2,57 | 2,57 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,13) | 1575 | 14,50 | 1,94 | 1,94 | 1,94 | 3,09 | 3,09 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,60 - 4,24) | 1480 | 13,90 |
| 25+25+25+42+50 | 1,52 | 1,52 | 1,52 | 2,41 | 3,03 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,65 - 4,10) | 1603 | 14,80 | 1,82 | 1,82 | 1,82 | 2,90 | 3,64 | 12,00 (3,40 - 14,50) | 3,97 | 3,02 (0,70 - 4,27) | 1510 | 14,20 |
| 25+25+25+50+50 | 1,42 | 1,42 | 1,42 | 2,87 | 2,87 | 10,00 (2,90 - 11,50) | 2,99 | 3,34 (0,75 - 4,14) | 1670 | 15,40 | 1,72 | 1,72 | 1,72 | 3,42 | 3,42 | 12,00 (3,40 - 14,50) | 3,82 | 3,14 (0,83 - 4,38) | 1570 | 14,80 |
| 25+25+35+35+35 | 1,70 | 1,70 | 2,20 | 2,20 | 2,20 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,56 - 4,05) | 1575 | 14,50 | 2,04 | 2,04 | 2,64 | 2,64 | 2,64 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,60 - 4,30) | 1475 | 13,90 |
| 25+25+35+35+42 | 1,62 | 1,62 | 2,08 | 2,08 | 2,60 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,57 - 4,05) | 1575 | 14,50 | 1,95 | 1,95 | 2,49 | 2,49 | 3,12 | 12,00 (3,40 - 14,50) | 4,07 | 2,95 (0,62 - 4,29) | 1475 | 13,90 |
| 25+25+35+35+50 | 1,52 | 1,52 | 1,95 | 1,95 | 3,06 | 10,00 (2,90 - 11,50) | 3,12 | 3,21 (0,66 - 4,10) | 1603 | 14,80 | 1,83 | 1,83 | 2,34 | 2,34 | 3,66 | 12,00 (3,40 - 14,50) | 3,92 | 3,06 (0,72 - 4,32) | 1530 | 14,40 |
| 25+25+35+42+42 | 1,54 | 1,54 | 1,98 | 2,47 | 2,47 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,85 | 1,85 | 2,38 | 2,96 | 2,96 | 12,00 (3,40 - 14,50) | 4,08 | 2,94 (0,62 - 4,28) | 1470 | 13,80 |
| 25+25+35+42+50 | 1,45 | 1,45 | 1,86 | 2,33 | 2,91 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,66 - 4,10) | 1608 | 14,80 | 1,74 | 1,74 | 2,23 | 2,79 | 3,50 | 12,00 (3,40 - 14,50) | 3,93 | 3,05 (0,73 - 4,31) | 1525 | 14,30 |
| 25+25+42+42+42 | 1,46 | 1,46 | 2,36 | 2,36 | 2,36 | 10,00 (2,90 - 11,50) | 3,17 | 3,15 (0,60 - 4,05) | 1575 | 14,50 | 1,77 | 1,77 | 2,82 | 2,82 | 2,82 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,26) | 1490 | 14,00 |
| 25+35+35+35+35 | 1,64 | 2,09 | 2,09 | 2,09 | 2,09 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,96 | 2,51 | 2,51 | 2,51 | 2,51 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,27) | 1490 | 14,00 |
| 25+35+35+35+42 | 1,55 | 1,99 | 1,99 | 1,99 | 2,48 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,05) | 1580 | 14,60 | 1,85 | 2,39 | 2,39 | 2,39 | 2,98 | 12,00 (3,40 - 14,50) | 4,03 | 2,98 (0,63 - 4,26) | 1490 | 14,00 |
| 25+35+35+35+50 | 1,46 | 1,87 | 1,87 | 1,87 | 2,93 | 10,00 (2,90 - 11,50) | 3,11 | 3,22 (0,67 - 4,10) | 1608 | 14,80 | 1,74 | 2,25 | 2,25 | 2,25 | 3,51 | 12,00 (3,40 - 14,50) | 3,95 | 3,04 (0,75 - 4,29) | 1520 | 14,30 |
| 25+35+35+42+42 | 1,48 | 1,89 | 1,89 | 2,37 | 2,37 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,60 - 4,06) | 1580 | 14,60 | 1,78 | 2,27 | 2,27 | 2,84 | 2,84 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,65 - 4,24) | 1485 | 14,00 |
| 35+35+35+35+35 | 2,00 | 2,00 | 2,00 | 2,00 | 2,00 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,61 - 4,06) | 1580 | 14,60 | 2,40 | 2,40 | 2,40 | 2,40 | 2,40 | 12,00 (3,40 - 14,50) | 4,04 | 2,97 (0,66 - 4,24) | 1485 | 14,00 |
| 35+35+35+35+42 | 1,90 | 1,90 | 1,90 | 1,90 | 2,40 | 10,00 (2,90 - 11,50) | 3,16 | 3,16 (0,61 - 4,06) | 1580 | 14,60 | 2,29 | 2,29 | 2,29 | 2,29 | 2,84 | 12,00 (3,40 - 14,50) | 4,05 | 2,96 (0,66 - 4,29) | 1480 | 13,90 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Multi Wall RE combinations table

## Multi Wall RE 2x1 CU-2RE15SBE. Minimum capacity connected: 4,00kW. Maximum capacity connected: 5,70kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 20 | 2,00 | | 2,00 (1,10 - 2,50) | 3,64 | | 0,55 (0,23 - 0,69) | 275 | 2,60 | 3,20 | | 3,20 (0,70 - 4,30) | 3,40 | | 0,94 (0,19 - 1,35) | 470 | 4,15 |
| 25 | 2,50 | | 2,50 (1,10 - 3,10) | 3,52 | | 0,71 (0,23 - 0,95) | 355 | 3,35 | 3,60 | | 3,60 (0,70 - 5,00) | 3,21 | | 1,12 (0,19 - 1,66) | 560 | 4,95 |
| 35 | 3,20 | | 3,20 (1,10 - 3,70) | 3,27 | | 0,98 (0,23 - 1,21) | 490 | 4,60 | 4,50 | | 4,50 (0,70 - 5,70) | 3,24 | | 1,39 (0,19 - 1,78) | 695 | 6,15 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 4,60) | 3,42 | | 1,17 (0,27 - 1,34) | 585 | 5,45 | 2,40 | 2,40 | 4,80 (1,10 - 6,30) | 4,00 | | 1,20 (0,24 - 1,61) | 600 | 5,35 |
| 20 + 25 | 1,95 | 2,45 | 4,40 (1,50 - 4,80) | 3,38 | **6,50** A+++ | 1,30 (0,27 - 1,52) | 650 | 6,10 | 2,15 | 2,65 | 4,80 (1,10 - 6,50) | 4,00 | **4,00** A+ | 1,20 (0,24 - 1,67) | 600 | 5,35 |
| 20 + 35 | 1,70 | 2,70 | 4,40 (1,50 - 4,80) | 3,38 | | 1,30 (0,27 - 1,52) | 650 | 6,10 | 1,85 | 2,95 | 4,80 (1,10 - 6,50) | 4,00 | | 1,20 (0,24 - 1,67) | 600 | 5,35 |
| 25 + 25 | 2,20 | 2,20 | 4,40 (1,50 - 4,80) | 3,38 | | 1,30 (0,27 - 1,52) | 650 | 6,10 | 2,40 | 2,40 | 4,80 (1,10 - 6,50) | 4,00 | | 1,20 (0,24 - 1,67) | 600 | 5,35 |
| 25 + 35 | 1,95 | 2,45 | 4,40 (1,50 - 4,80) | 3,38 | | 1,30 (0,27 - 1,52) | 650 | 6,10 | 2,15 | 2,65 | 4,80 (1,10 - 6,50) | 4,00 | | 1,20 (0,24 - 1,67) | 600 | 5,35 |

## Multi Wall RE 2x1 CU-2RE18SBE. Minimum capacity connected: 4,00kW. Maximum capacity connected: 7,50kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | |
| 20 | 2,00 | | 2,00 (1,10 - 2,50) | 3,64 | | 0,55 (0,23 - 0,69) | 275 | 2,60 | 3,20 | | 3,20 (0,70 - 4,30) | 3,40 | | 0,94 (0,19 - 1,35) | 470 | 4,15 |
| 25 | 2,50 | | 2,50 (1,10 - 3,10) | 3,52 | | 0,71 (0,23 - 0,95) | 355 | 3,35 | 3,60 | | 3,60 (0,70 - 5,00) | 3,21 | | 1,12 (0,19 - 1,66) | 560 | 4,95 |
| 12 | 3,20 | | 3,20 (1,10 - 3,70) | 3,27 | | 0,98 (0,23 - 1,21) | 490 | 4,60 | 4,50 | | 4,50 (0,70 - 5,70) | 3,24 | | 1,39 (0,19 - 1,78) | 695 | 6,15 |
| 42 | 4,00 | | 4,00 (1,10 - 4,20) | 3,10 | | 1,29 (0,23 - 1,42) | 645 | 6,05 | 5,00 | | 5,00 (1,10 - 6,40) | 3,03 | | 1,65 (0,24 - 2,18) | 825 | 7,30 |
| 50 | 5,00 | | 5,00 (1,20 - 5,10) | 2,94 | | 1,70 (0,24 - 1,82) | 850 | 7,95 | 5,30 | | 5,30 (1,10 - 6,80) | 3,01 | | 1,76 (0,24 - 2,29) | 880 | 7,80 |
| **2 Rooms** | | | | | | | | | | | | | | | | |
| 20 + 20 | 2,00 | 2,00 | 4,00 (1,50 - 4,60) | 3,45 | | 1,16 (0,27 - 1,34) | 580 | 5,45 | 2,60 | 2,60 | 5,20 (1,10 - 6,30) | 4,00 | | 1,30 (0,24 - 1,61) | 650 | 5,80 |
| 20 + 25 | 2,00 | 2,50 | 4,50 (1,50 - 4,80) | 3,44 | | 1,31 (0,27 - 1,51) | 655 | 6,10 | 2,30 | 2,90 | 5,20 (1,10 - 6,30) | 4,00 | | 1,30 (0,24 - 1,61) | 650 | 5,80 |
| 20 + 12 | 1,85 | 2,95 | 4,80 (1,50 - 4,90) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,00 | 3,20 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 20 + 42 | 1,60 | 3,20 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 1,75 | 3,45 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 20 + 50 | 1,35 | 3,45 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 1,50 | 3,70 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 25 + 25 | 2,40 | 2,40 | 4,80 (1,50 - 5,00) | 3,22 | **6,50** A+++ | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,60 | 2,60 | 5,20 (1,10 - 6,70) | 4,00 | **4,00** A+ | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 25 + 12 | 2,10 | 2,70 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,30 | 2,90 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 25 + 42 | 1,85 | 2,95 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,00 | 3,20 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 25 + 50 | 1,60 | 3,20 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 1,75 | 3,45 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 12 + 12 | 2,40 | 2,40 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,60 | 2,60 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |
| 12 + 42 | 2,15 | 2,65 | 4,80 (1,50 - 5,00) | 3,22 | | 1,49 (0,27 - 1,58) | 745 | 6,95 | 2,30 | 2,90 | 5,20 (1,10 - 6,70) | 4,00 | | 1,30 (0,24 - 1,70) | 650 | 5,75 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

## Multi Wall RE 3x1 CU-3RE18SBE. Minimum capacity connected: 4,50kW. Maximum capacity connected: 9,00kW • R410A GAS

| Indoor unit capacity | Cooling capacity (kW). Rooms | | | | EER | SEER [1] | Input power rating | A.E.C. | Current | Heating capacity (kW). Rooms | | | | COP | SCOP [1] | Input power rating | A.E.C. | Current |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V | A | B | C | Total (Min - Max) | W/W | | kW | kWh | 230V |
| **1 Room** | | | | | | | | | | | | | | | | | | |
| 16 | 1,60 | | | 1,60 (1,30 - 2,30) | 3,40 | | 0,47 (0,25 - 0,71) | 235 | 2,30 | 2,60 | | | 2,60 (1,20 - 3,20) | 3,88 | | 0,67 (0,30 - 1,03) | 335 | 3,40 |
| 20 | 2,00 | | | 2,00 (1,80 - 2,90) | 3,51 | | 0,57 (0,34 - 0,88) | 285 | 2,80 | 3,20 | | | 3,20 (1,20 - 4,10) | 3,95 | | 0,81 (0,30 - 1,30) | 405 | 4,00 |
| 25 | 2,50 | | | 2,50 (1,80 - 2,90) | 3,57 | | 0,70 (0,34 - 0,88) | 350 | 3,30 | 3,60 | | | 3,60 (1,20 - 4,30) | 3,56 | | 1,01 (0,30 - 1,30) | 505 | 4,80 |
| 35 | 3,20 | | | 3,20 (1,80 - 3,80) | 3,68 | | 0,87 (0,34 - 1,43) | 435 | 4,00 | 4,50 | | | 4,50 (1,20 - 5,80) | 3,46 | | 1,30 (0,30 - 2,17) | 650 | 6,20 |
| 42 | 4,00 | | | 4,00 (1,80 - 4,30) | 3,05 | | 1,31 (0,34 - 2,06) | 655 | 5,90 | 5,60 | | | 5,60 (1,20 - 6,80) | 3,13 | | 1,79 (0,30 - 3,00) | 895 | 7,90 |
| 50 | 5,00 | | | 5,00 (1,90 - 5,70) | 2,89 | | 1,73 (0,34 - 2,31) | 865 | 7,60 | 6,80 | | | 6,80 (1,20 - 6,90) | 2,98 | | 2,28 (0,30 - 2,70) | 1140 | 10,00 |
| **2 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 | 1,60 | 1,60 | | 3,20 (1,80 - 6,20) | 4,05 | | 0,79 (0,33 - 2,23) | 395 | 3,60 | 2,60 | 2,60 | | 5,20 (1,40 - 7,00) | 3,77 | | 1,38 (0,34 - 2,07) | 690 | 6,40 |
| 16 + 20 | 1,60 | 2,00 | | 3,60 (1,80 - 6,20) | 3,83 | | 0,94 (0,33 - 2,19) | 470 | 4,20 | 2,49 | 3,11 | | 5,60 (1,40 - 7,00) | 3,73 | | 1,50 (0,33 - 2,04) | 750 | 6,90 |
| 16 + 25 | 1,60 | 2,50 | | 4,10 (1,80 - 6,20) | 3,73 | | 1,10 (0,33 - 2,19) | 550 | 4,90 | 2,42 | 3,78 | | 6,20 (1,40 - 7,00) | 3,69 | | 1,68 (0,33 - 2,04) | 840 | 7,80 |
| 16 + 35 | 1,60 | 3,20 | | 4,80 (1,80 - 6,30) | 3,36 | | 1,43 (0,33 - 2,20) | 715 | 6,30 | 2,13 | 4,27 | | 6,40 (1,40 - 7,30) | 3,76 | | 1,70 (0,31 - 2,13) | 850 | 7,80 |
| 16 + 42 | 1,49 | 3,71 | | 5,20 (1,90 - 6,40) | 3,21 | | 1,62 (0,35 - 2,24) | 810 | 7,10 | 1,94 | 4,86 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 16 + 50 | 1,26 | 3,94 | | 5,20 (1,90 - 6,80) | 3,40 | | 1,53 (0,34 - 2,29) | 765 | 6,70 | 1,65 | 5,15 | | 6,80 (1,40 - 8,00) | 3,80 | | 1,79 (0,24 - 2,34) | 895 | 8,20 |
| 20 + 20 | 2,00 | 2,00 | | 4,00 (1,80 - 6,20) | 3,74 | | 1,07 (0,33 - 2,15) | 535 | 4,70 | 2,90 | 2,90 | | 5,80 (1,40 - 7,00) | 3,82 | | 1,52 (0,32 - 2,03) | 760 | 7,00 |
| 20 + 25 | 2,00 | 2,50 | | 4,50 (1,80 - 6,20) | 3,52 | | 1,28 (0,33 - 2,15) | 640 | 5,60 | 2,84 | 3,56 | | 6,40 (1,40 - 7,00) | 3,68 | | 1,74 (0,32 - 2,03) | 870 | 8,00 |
| 20 + 35 | 2,00 | 3,20 | | 5,20 (1,80 - 6,30) | 3,21 | | 1,62 (0,33 - 2,16) | 810 | 7,10 | 2,62 | 4,18 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 20 + 42 | 1,73 | 3,47 | | 5,20 (1,90 - 6,40) | 3,29 | | 1,58 (0,35 - 2,20) | 790 | 6,90 | 2,27 | 4,53 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,28 - 2,08) | 910 | 8,30 |
| 20 + 50 | 1,49 | 3,71 | | 5,20 (1,90 - 6,80) | 3,40 | | 1,53 (0,34 - 2,29) | 765 | 6,70 | 1,94 | 4,86 | | 6,80 (1,40 - 8,00) | 3,82 | | 1,78 (0,24 - 2,33) | 890 | 8,10 |
| 25 + 25 | 2,50 | 2,50 | | 5,00 (1,80 - 6,20) | 3,25 | | 1,54 (0,33 - 2,15) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,00) | 3,64 | | 1,87 (0,32 - 2,03) | 935 | 8,50 |
| 25 + 35 | 2,28 | 2,92 | | 5,20 (1,90 - 6,30) | 3,21 | | 1,62 (0,35 - 2,16) | 810 | 7,10 | 2,98 | 3,82 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,31 - 2,12) | 910 | 8,30 |
| 25 + 42 | 2,00 | 3,20 | | 5,20 (1,90 - 6,40) | 3,29 | | 1,58 (0,35 - 2,20) | 790 | 6,90 | 2,62 | 4,18 | | 6,80 (1,40 - 7,30) | 3,74 | | 1,82 (0,28 - 2,08) | 910 | 8,30 |
| 25 + 50 | 1,73 | 3,47 | | 5,20 (1,90 - 6,80) | 3,40 | | 1,53 (0,34 - 2,29) | 765 | 6,70 | 2,27 | 4,53 | | 6,80 (1,40 - 8,00) | 3,82 | | 1,78 (0,24 - 2,33) | 890 | 8,10 |
| 35 + 35 | 2,60 | 2,60 | | 5,20 (1,90 - 6,40) | 3,38 | | 1,54 (0,35 - 2,16) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,50) | 3,76 | | 1,81 (0,27 - 2,14) | 905 | 8,30 |
| 35 + 42 | 2,31 | 2,89 | | 5,20 (1,90 - 6,50) | 3,38 | | 1,54 (0,35 - 2,21) | 770 | 6,80 | 3,02 | 3,78 | | 6,80 (1,40 - 7,50) | 3,78 | | 1,80 (0,26 - 2,14) | 900 | 8,20 |
| 35 + 50 | 2,03 | 3,17 | | 5,20 (1,90 - 6,90) | 3,49 | | 1,49 (0,36 - 2,29) | 745 | 6,50 | 2,65 | 4,15 | | 6,80 (1,40 - 8,00) | 3,86 | | 1,76 (0,24 - 2,27) | 880 | 8,00 |
| 42 + 42 | 2,60 | 2,60 | | 5,20 (1,90 - 6,50) | 3,38 | | 1,54 (0,35 - 2,21) | 770 | 6,80 | 3,40 | 3,40 | | 6,80 (1,40 - 7,60) | 3,86 | | 1,76 (0,26 - 2,17) | 880 | 8,00 |
| 42 + 50 | 2,31 | 2,89 | | 5,20 (1,90 - 6,90) | 3,49 | | 1,49 (0,36 - 2,29) | 745 | 6,50 | 3,02 | 3,78 | | 6,80 (1,40 - 8,00) | 3,89 | | 1,75 (0,24 - 2,27) | 875 | 8,00 |
| **3 Rooms** | | | | | | | | | | | | | | | | | | |
| 16 + 16 + 16 | 1,60 | 1,60 | 1,60 | 4,80 (1,80 - 7,20) | 3,81 | | 1,26 (0,36 - 2,34) | 630 | 5,50 | 2,26 | 2,26 | 2,26 | 6,78 (1,50 - 8,10) | 4,06 | | 1,67 (0,29 - 2,25) | 835 | 7,70 |
| 16 + 16 + 20 | 1,60 | 1,60 | 2,00 | 5,20 (1,80 - 7,30) | 3,69 | 7,00 A+++ | 1,41 (0,36 - 2,39) | 705 | 6,20 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,10 | 4,00 A+ | 1,66 (0,32 - 2,32) | 830 | 7,70 |
| 16 + 16 + 25 | 1,46 | 1,46 | 2,28 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,91 | 1,91 | 2,98 | 6,80 (1,60 - 8,30) | 4,10 | | 1,66 (0,32 - 2,32) | 830 | 7,70 |
| 16 + 16 + 35 | 1,30 | 1,30 | 2,60 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 1,70 | 1,70 | 3,40 | 6,80 (1,60 - 8,30) | 4,15 | | 1,64 (0,31 - 2,25) | 820 | 7,60 |
| 16 + 16 + 42 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 16 + 50 | 1,01 | 1,01 | 3,18 | 5,20 (1,80 - 7,30) | 3,61 | | 1,44 (0,42 - 2,23) | 720 | 6,30 | 1,33 | 1,33 | 4,14 | 6,80 (1,60 - 8,30) | 4,15 | | 1,64 (0,36 - 2,22) | 820 | 7,60 |
| 16 + 20 + 20 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 20 + 25 | 1,36 | 1,70 | 2,14 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,78 | 2,23 | 2,79 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 20 + 35 | 1,22 | 1,53 | 2,45 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,21) | 705 | 6,20 | 1,60 | 2,00 | 3,20 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 20 + 42 | 1,09 | 1,37 | 2,74 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,43 | 1,79 | 3,58 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 16 + 20 + 50 | 0,97 | 1,21 | 3,02 | 5,20 (1,80 - 7,30) | 3,61 | | 1,44 (0,42 - 2,18) | 720 | 6,30 | 1,27 | 1,58 | 3,95 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,36 - 2,22) | 815 | 7,50 |
| 16 + 25 + 25 | 1,26 | 1,97 | 1,97 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,64 | 2,58 | 2,58 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,27) | 825 | 7,60 |
| 16 + 25 + 35 | 1,14 | 1,78 | 2,28 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,49 | 2,33 | 2,98 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,25) | 815 | 7,50 |
| 16 + 25 + 42 | 1,03 | 1,60 | 2,57 | 5,20 (1,80 - 7,30) | 3,69 | | 1,41 (0,39 - 2,30) | 705 | 6,20 | 1,34 | 2,10 | 3,36 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 16 + 35 + 35 | 1,04 | 2,08 | 2,08 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,36 | 2,72 | 2,72 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,22) | 805 | 7,40 |
| 16 + 35 + 42 | 0,95 | 1,89 | 2,36 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,24 | 2,47 | 3,09 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |
| 20 + 20 + 20 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 3,68 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,11 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 20 + 25 | 1,60 | 1,60 | 2,00 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,09 | 2,09 | 2,62 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 20 + 35 | 1,44 | 1,44 | 2,32 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,89 | 1,89 | 3,02 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 20 + 20 + 42 | 1,30 | 1,30 | 2,60 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,70 | 1,70 | 3,40 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 20 + 20 + 50 | 1,16 | 1,16 | 2,88 | 5,20 (1,80 - 7,30) | 3,61 | | 1,44 (0,42 - 2,18) | 720 | 6,30 | 1,51 | 1,51 | 3,78 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,36 - 2,21) | 815 | 7,50 |
| 20 + 25 + 25 | 1,48 | 1,86 | 1,86 | 5,20 (1,90 - 7,20) | 3,69 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 1,94 | 2,43 | 2,43 | 6,80 (1,60 - 8,30) | 4,12 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 20 + 25 + 35 | 1,35 | 1,69 | 2,16 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,76 | 2,21 | 2,83 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 20 + 25 + 42 | 1,22 | 1,53 | 2,45 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,60 | 2,00 | 3,20 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 20 + 35 + 35 | 1,24 | 1,98 | 1,98 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,62 | 2,59 | 2,59 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |
| 25 + 25 + 25 | 1,73 | 1,73 | 1,73 | 5,19 (1,90 - 7,20) | 3,68 | | 1,41 (0,39 - 2,25) | 705 | 6,20 | 2,26 | 2,26 | 2,26 | 6,78 (1,60 - 8,30) | 4,11 | | 1,65 (0,31 - 2,26) | 825 | 7,60 |
| 25 + 25 + 35 | 1,59 | 1,59 | 2,02 | 5,20 (1,90 - 7,20) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 2,07 | 2,07 | 2,66 | 6,80 (1,60 - 8,30) | 4,17 | | 1,63 (0,31 - 2,24) | 815 | 7,50 |
| 25 + 25 + 42 | 1,44 | 1,44 | 2,32 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,25) | 685 | 6,00 | 1,89 | 1,89 | 3,02 | 6,80 (1,60 - 8,30) | 4,20 | | 1,62 (0,32 - 2,23) | 810 | 7,50 |
| 25 + 35 + 35 | 1,46 | 1,87 | 1,87 | 5,20 (1,80 - 7,30) | 3,80 | | 1,37 (0,39 - 2,21) | 685 | 6,00 | 1,92 | 2,44 | 2,44 | 6,80 (1,60 - 8,30) | 4,22 | | 1,61 (0,32 - 2,21) | 805 | 7,40 |

1) Energy Label Scale from A+++ to D. Showing SEER and Pdesign (kWh) / SCOP and Pdesign at -10°C (kWh): Using EN 14825. Other: A.E.C. using internal procedure (only for reference).
* EER, COP, SEER, SCOP, Input power, Annual consumption is show following EU/626/2011/ only on the 100% capacity combination as requested by the EU Regulation.
* Data for not simultaneous operation.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



# PANASONIC COMMERCIAL AIR TO AIR



Here are some of your new air conditioner's major features. Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment. Our Inverter compressors optimise performance.

# HIGHLIGHTED FEATURES



# PACi: Commercial air to air. The compact and high efficiency solution for shops, restaurants, offices or residential applications.

## Commercial benefits

**Great savings and improved comfort.**
Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. Our Inverter compressors optimise performance.

**A wide range for the industry, office or residence.**
From the smaller 1x1 to the more complete 4x1 solutions, Panasonic can offer the most comfortable climate with solutions designed for every environment.

**High connectivity.**
The control systems allow you to manage all of your units for several locations. Receive real time status updates and maintenance alerts, while optimizing costs and energy usage.

## Energy saving




**Refrigerant gas R32.**
Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.




**Econavi.**
Intelligent Human Activity Sensor and Sunlight Sensor technologies that can detect and reduce waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.




**Exceptional seasonal cooling efficiency based on the ErP regulation.**
Higher SEER ratings mean greater efficiency. Save all the year while cooling!




**Exceptional seasonal heating efficiency based on the ErP regulation.**
Higher SCOP ratings mean greater efficiency. Save all the year while heating!

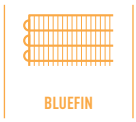



**Inverter Plus System.**
Inverter Plus System classification highlights the highest performing Panasonic systems.




**High efficiency compressor.**
Compressors that operate with a wider Hz range realize a more efficient operation throughout the year. For Big PACi Series PE2.

## High performance




**Bluefin.**
Panasonic has extended the life of its condensers with an original anti-rust coating. For Big PACi Series PE2.




**Large Fan.**
Large fan provides larger airflow rate and very quiet operation at low speed. For Big PACi Series PE2.




**DC Fan.**
Safe and precise.




**Down to -15°C in cooling mode.**
The air conditioner works in cooling only mode with an outdoor temperature of -15°C.




**Down to -20°C or -15°C in heating mode.**
The air conditioner works in heat pump mode even when outdoor temperatures are as low as -20°C or -15°C.




**R410A/R22 renewal.**
The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.




**R22 renewal.**
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.




**5 Years compressor warranty.**
We guarantee the outdoor unit compressors in the entire range for five years.

## High connectivity




**Panasonic AC Smart Cloud.**
The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimizing costs.




**Internet Control.**
A next generation system providing a user-friendly remote controller of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.




**BMS connectivity.**
The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

# PACi OUTDOOR UNITS
# ENERGY SAVING CONCEPT



Product quality and safety. All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

## New PACi R32 Refrigerant Gas

**Panasonic recommends R32 because it is comparably environmentally friendly. Compared to R22 and R410A, R32 has a very low potential impact on global warming.**

In line with the European Countries who are concerned in protecting and maintaining the environment by participating in the Montreal Protocol to protect the Ozone Layer and prevent Global Warming, Panasonic is leading the switch to R32.

**1. Installation innovation.**
- Extremely easy to install, practically the same as R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with R32)
- This refrigerant is 100% pure, which makes it easier to recycle and reuse

**2. Environmental innovation.**
- Zero impact on the ozone layer
- 75% less impact on global warming

**3. Economic and energy consumption innovation.**
- Lower cost and greater savings
- Higher energy efficiency than R410A

## PACi Elite: Next generation of commercial air conditioning

Outstanding performance at low temperatures, high energy efficiency, power consumption in remote control display. The energy saving design structure of fans, fan motors, compressors and heat exchangers resulted in high COP value which ranked as one the top class in the industry. Additional benefits include reduced $CO_2$ emissions, energy consumption and operating costs.

**PACi Elite. From 3,60 to 25,00kW.**
- Meeting all necessary safety approvals to ensure quality and safety
- Top class SEER: A+++ / SCOP: A+++ at 3,60kW (in 90×90 Cassette)
- Cooling operation is possible when outdoor temperature as high as 46°C
- DC inverter technology combined with R32 and R410A
- Cooling operation is possible when outdoor temperature is as low as -15°C
- Heating operation is possible when outdoor temperature is as low as -20°C
- Compact outdoor units
- Auto restart from outdoor unit
- Twin, Triple and Double-Twin connection possible

## PACi Standard: For economy and value

With high quality design and engineering, the PACi Standard is the perfect solution for projects which demand quality on a limited budget. In addition, its compact and lightweight design makes it ideal for installations with limited space including small commercial and residential applications.
The outdoor unit is much more compact than the previous model. The slim and lightweight design means the PACi outdoor unit can be installed in a number of situations.

**PACi Standard. From 6,00 to 14,00kW.**
- Good balance, system cost vs energy efficiency
- Top class SEER/SCOP as a Standard Inverter category SEER: A++ / SCOP: A++ at 6,00 and 7,10kW (in 90x90 Cassette)
- Interchangeable controller with ECOi
- Compact outdoor units
- Twin connection possible
- Cooling operation up to -10°C and Heating operation up to -15°C




* These models will be available in May 2019.

## New Big PACi Elite R32

20,00 – 25,00 kW is ideally suited for small, mid retail applications.
In addition to its light net weight and compact body, split-able Hide Away design newly developed enables easy piping work in narrow installation space.

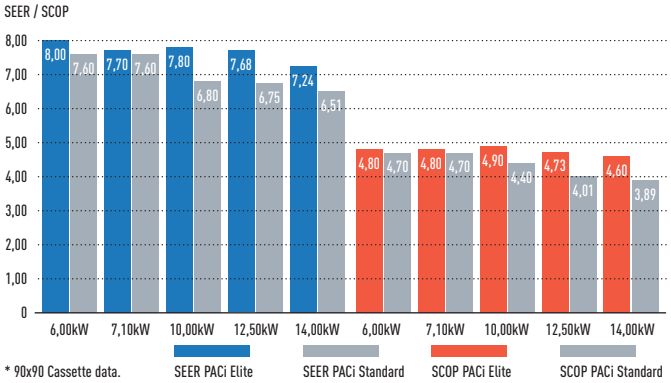
**Panasonic Big PACi, not only environmental friendly but also groundbreaking products.**
- High efficiency with Panasonic compressor as the driving force
- Compact and light indoor body
- Easy piping work with split-able Hide Away indoor design
- Separable indoor unit allows flexible installation to fit in narrow space
- Water Heat Exchanger compatibility
- Bluefin anti-rust coating
- Cloud Control compatible

# PACi ELITE: EXCELLENT SEER AND SCOP VALUES



## High operating efficiency using DC inverter compressor, DC motor and a heat exchanger design.

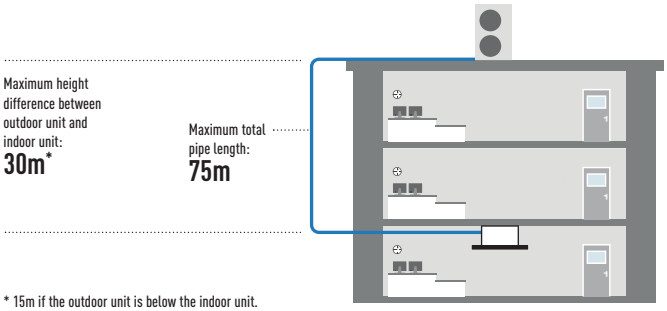
### New PACi R32 seasonal efficiency for daily energy saving




* 90x90 Cassette data.

### Increased piping length for greater design flexibility

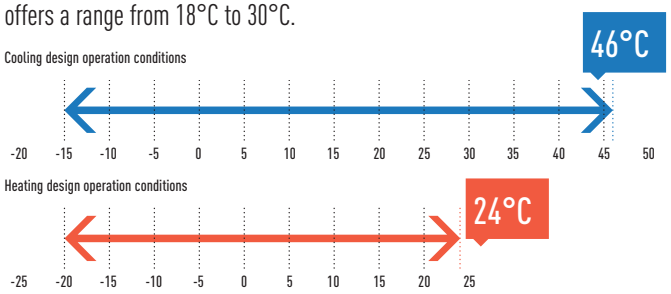
Adaptable to various building types and sizes.
Maximum piping length: 75m (10,00, 12,50, 14,00kW). 50m (6,00, 7,10kW).




* 15m if the outdoor unit is below the indoor unit.

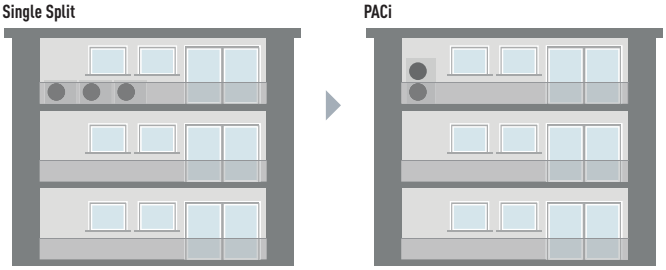
### PACi Elite design operation conditions

Cooling operation is possible when outdoor temperature is as low as -15°C or as high as 46°C. Heating operation is possible when outdoor temperature is as low as -20°C. The remote control temperature setting offers a range from 18°C to 30°C.

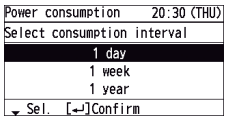



### Compact & Flexible-design

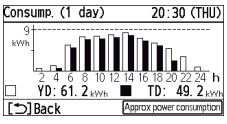
The slim and lightweight design means the PACi outdoor unit can be installed in a number of compact situations. As the unit only weighs 98kg (R410A), it is easy to carry and easy to install.



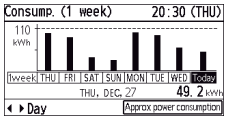

### Energy consumption monitoring display with the CZ-RTC5B



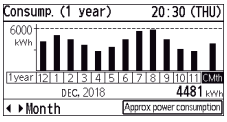

Menu selection: 3 types (Day/Week/Year)of display are available.




Daily Energy consumption: Data is shown with Yesterday's record. (Graph starts from 0 o'clock to 24 o'clock only.)




Weekly Energy consumption: Power consumption of each day of the week can be checked.




Annual Energy consumption: Power consumption of each month can be checked.

datanavi

**Datanavi, a new way to connect.**
Simple and easy support tool with your smartphone.



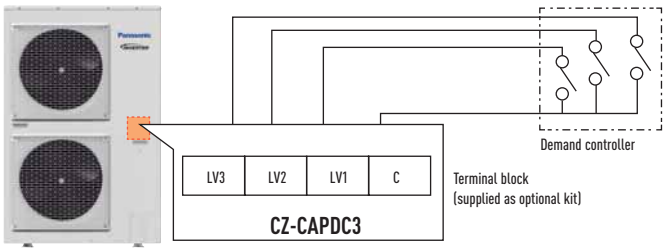

- Scan & Save AC system info
- Easy access to manual database
- Commissioning, F gas check data history

### Demand response compliant (CZ-CAPDC3) as a standard function

This terminal allows demand control of the outdoor unit.
Several setting levels are available:
- Level-1, 2, 3: 75 / 50 / 0 %
- Level-1, 2 can be set in 40 - 100% (40, 45, 50...95, 100: each 5%)

CZ-CAPDC3 also allows for forced stop which can be used for Fire-alarm connection on LV3.

CZ-CAPDC3 is an optional for R410A models.



# SOLUTIONS FOR 24/7/365 APPLICATIONS



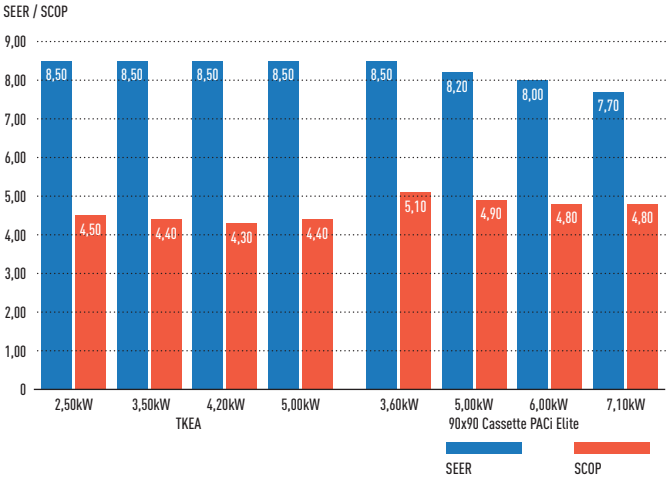
High efficiency products for 24/7 applications.
Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -20°C.




## High efficiency all the year

**Key points:**

- From 2,5 to 7,10kW with new TKEA R32 gas units A+++ in cooling
- PACi units from 3,6 to 14kW
- Backup function
- Redundancy function
- Alternative run function
- Error information by Dry Contact
- Operation even at -20°C outdoor temperature
- High seasonal performance
- Product design for 24/7 operation

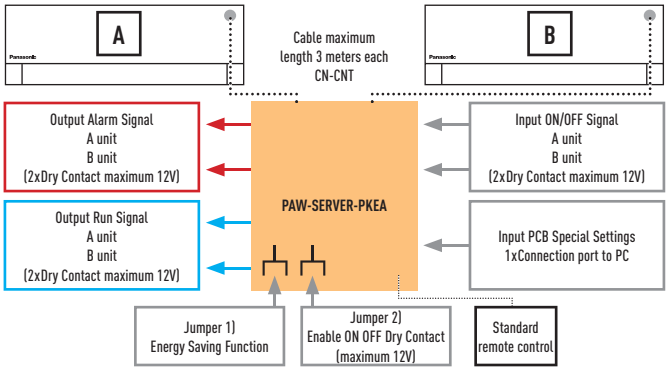



## Interface to run 2 TKEA / PKEA. PAW-SERVER-PKEA

The PAW-SERVER-PKEA server room interface manages redundancy and backup of two TKEA / PKEA units with two different selectable modes:

- Plug and play by embedded redundancy and backup algorithm (no external signal needed. Further details please refer to operation manual)
- External (third party PLC) redundancy and backup management by Dry Contact

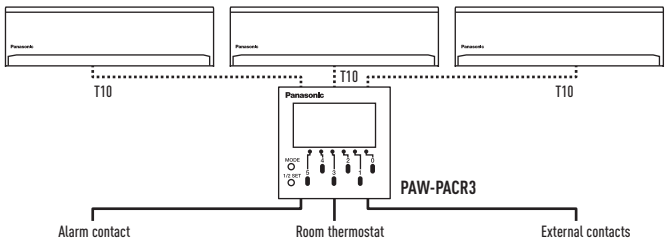
All settings are possible without the need for a computer connection.
A special Energy Saving Mode is selectable by deep switch (available only in plug and play mode). The level of remote control input prohibition can be set when external management is by Dry Contact.




## Interfaces to run 2 or 3 PACi and VRF indoor units

**PAW-PACR3.**

In combination with one PAW-T10 on each indoor unit, allows the redundant operation of 2 (or 3) PACi or VRF indoor units.
All units will be operated sequentially in order to achieve the same operating time (example turn every 8 hours within a 24 hour period).
If the room temperature exceeds a freely set value, the 2nd (or 3rd) unit will be switched ON and an alarm will be activated.



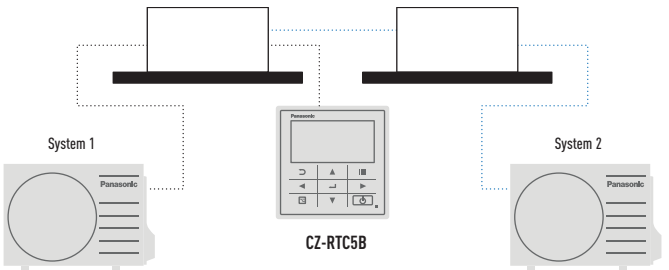

**Display and Settings:**

- Possible to select next unit manually
- Possible to reset operation
- LED display shows operation status of the 2 or 3 units
- Operation status output
- Alarm LED and alarm output
- Temperature limit can be set
- Temperature hysteresis can be set
- Room temperature is displayed
- Time counter displayed

**Backup control by using CZ-RTC5B.**

Group wiring of 2 systems of PACi can do auto individual control.

- Rotation operation
- Backup operation
- Support operation




**CZ-CAPRA1.**

RAC interface adapter for integration into P-Link.

# GENERATION PACi
# 90x90 CASSETTE



Panasonic introduces a new modern flat panel design to blend into any space. These Cassettes have been developed to satisfy today's customer needs such as high energy saving, comfort and healthier air.

## PACi Cassette Panasonic

- Better SCOP & SEER (up to 15%) than conventional R410 models
- Advanced comfort and energy saving by Econavi sensor
- Air purification nanoe™ X system
- Super quiet operation from 27dB(A)

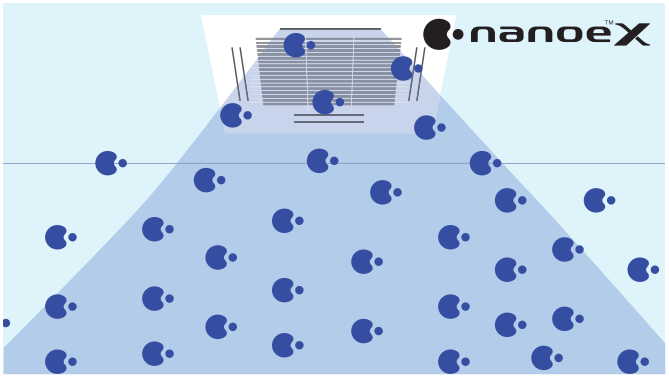
These Cassettes offer upgraded Econavi and nanoe™ X purification systems as accessories for making application space more comfortable, healthy and efficient.

## Always fresh and clean air with nanoe™ X

nanoe™ X is available with the advanced technology of room air conditioning.

- Purifying operation can work simultaneously or independently from heating/cooling operation.
- Inhibiting certain viruses, bacteria & deodorisation (bacteria, fungus, pollen, virus and cigarette smoke). OH radicals in nanoe™ X pull bacteria's hydrogen out to effectively deodorise and sterilise
- Clean inside by nanoe™ X + Dry control: inside of indoor unit can be cleaned by short operation circuit with nanoe™ X and drying

CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.

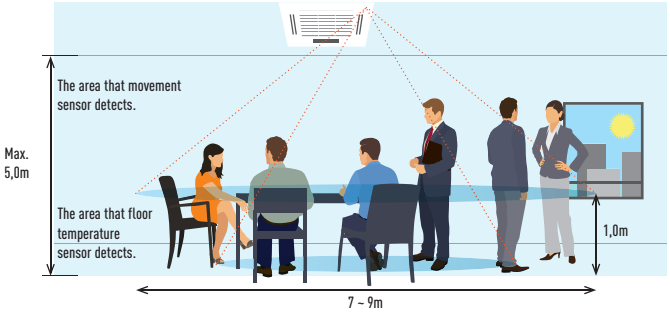



## Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste of energy by optimising air conditioner operation.

### Advanced Econavi functions.

2 sensors (movement and floor temperature) can find waste of energy and control effectively. Floor temperature can detect up to 5m ceiling height.




**Econavi exclusive panel. Optional (CZ-KPU3AW)**



**Floor temperature sensor.**
This sensor detects average floor temperature and operates circulation if floor temperature is low.

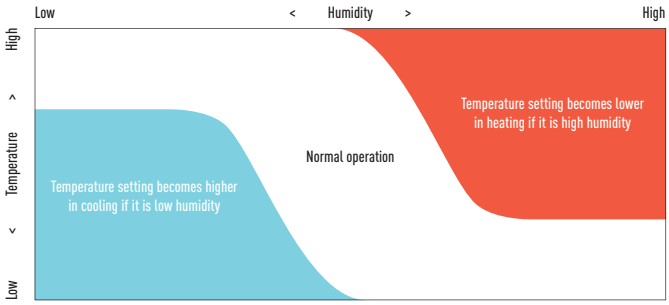
**Movement sensor.**
This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5B is required.

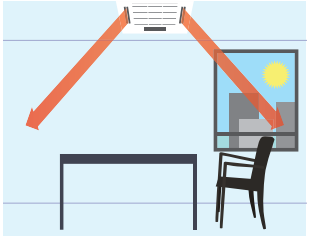
### Humidity sensor.

Humidity sensor has air suction function, and realises comfort and energy saving based on temperature and humidity.

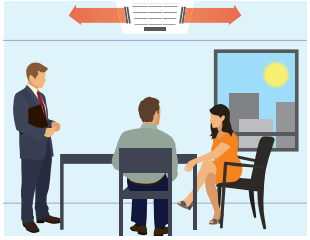



### Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.



Circulation by Detecting no movement (10min.)



Indirect air flow by detecting movement

# RANGE OF COMMERCIAL UNITS R32

| Page | Indoor units | 2,50kW | 3,50 ~ 3,60kW | 4,50kW | 5,00kW | 6,00kW |
|---|---|---|---|---|---|---|
| P. 188 | Wall Mounted Professional Inverter -20°C • R32 Gas |  CS-Z25TKEA |  CS-Z35TKEA |  CS-Z42TKEA |  CS-Z50TKEA | |
| P. 190 | Wall Inverter+ • R32 Gas | |  S-36PK2E5B |  S-45PK2E5B |  S-50PK2E5B |  S-60PK2E5B |
| P. 112 | 4 Way 60x60 Cassette Inverter • R32 Gas |  CS-Z25UB4EAW |  CS-Z35UB4EAW | |  CS-Z50UB4EAW |  CS-Z60UB4EAW |
| P. 194 | 4 Way 60x60 Cassette Inverter+ • R32 Gas | |  S-36PY2E5B |  S-45PY2E5B [1] |  S-50PY2E5B | |
| P. 196 | 4 Way 90x90 Cassette Inverter+ • R32 Gas | |  S-36PU2E5B |  S-45PU2E5B |  S-50PU2E5B |  S-60PU2E5B |
| P. 200 | Ceiling Inverter+ • R32 Gas | |  S-36PT2E5B |  S-45PT2E5B |  S-50PT2E5B |  S-60PT2E5B |
| P. 113 | Low Static Pressure Hide Away Inverter • R32 Gas |  CS-Z25UD3EAW |  CS-Z35UD3EAW | |  CS-Z50UD3EAW |  CS-Z60UD3EAW |
| P. 204 | High Static Pressure Hide Away Inverter+ • R32 Gas | |  S-36PF1E5B |  S-45PF1E5B |  S-50PF1E5B |  S-60PF1E5B |
| P. 208 | Low Static Pressure Hide Away Inverter+ • R32 Gas | |  S-36PN1E5B |  S-45PN1E5B |  S-50PN1E5B |  S-60PN1E5B |
| P. 212 | NEW High Static Pressure Hide Away 20-25kW Inverter+ • R32 Gas | | | | | |
| P. 258 | Air Handling Unit Kit 5,00-25,00kW | | | |  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |

| Outdoor units | 3,60kW | 5,00kW | 6,00kW |
|---|---|---|---|
| PACi Elite • R32 Gas |  U-36PZH2E5 |  U-50PZH2E5 |  U-60PZH2E5 |
| PACi Standard • R32 Gas | | |  U-60PZ2E5 |

1) The 4,50kW indoor unit are only available only for Twin, Triple and Double-Twin combinations. 2) These models will be available in May 2019. * U-__E5 Single Phase / U-__E8 Three Phase.

| 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|
|  CS-Z71TKEA | | | | | |
|  S-71PK2E5B |  S-100PK2E5B (9,00kW) | | | | |
| | | | | | |
| | | | | | |
|  S-71PU2E5B |  S-100PU2E5B |  S-125PU2E5B |  S-140PU2E5B | | |
|  S-71PT2E5B |  S-100PT2E5B |  S-125PT2E5B |  S-140PT2E5B | | |
| | | | | | |
|  S-71PF1E5B |  S-100PF1E5B |  S-125PF1E5B |  S-140PF1E5B | | |
|  S-71PN1E5B |  S-100PN1E5B |  S-125PN1E5B |  S-140PN1E5B | | |
| | | | |  S-200PE3E5B [2] |  S-250PE3E5B [2] |
|  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |  PAW-280PAH2(M/L) |

| 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|
|  U-71PZH2E5 / U-71PZH2E8 |  U-100PZH2E5 / U-100PZH2E8 |  U-125PZH2E5 / U-125PZH2E8 |  U-140PZH2E5 / U-140PZH2E8 |  U-200PZH2E8 [2] |  U-250PZH2E8 [2] |
|  U-71PZ2E5 |  U-100PZ2E5 / U-100PZ2E8 |  U-125PZ2E5 / U-125PZ2E8 |  U-140PZ2E5 / U-140PZ2E8 | | |

# SOLUTIONS FOR SERVER ROOMS

High efficiency products for 24/7 applications. Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -20°C.





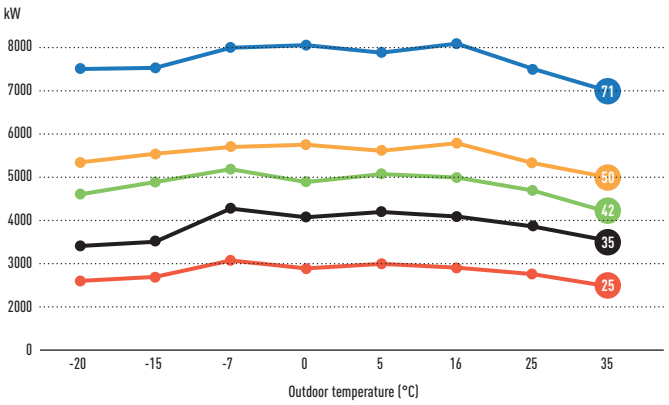

## High efficiency all the year

**Key points:**

- From 2,50 to 7,10kW with new TKEA R32 gas units A+++ in cooling
- Backup function
- Redundancy function
- Alternative run function
- Error information by Dry Contact
- Operation even at -20°C outdoor temperature
- High seasonal performance
- Product design for 24/7 operation

## Exceptional efficiency means exceptional savings

**TKEA provides high capacity at -20°C!**



# Wall Mounted Professional Inverter -20°C
## • R32 GAS





### Complete line-up with high efficiency even at -20°C

This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

### Technical focus

- R32 gas is more environmentally friendly than R410A
- Aerowings to control air draft direction
- Designed for 24h/7d a week operation
- Up to A+++ in cooling
- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing
- Automatic restart

| KIT | | | KIT-Z25-TKEA | KIT-Z35-TKEA | KIT-Z42-TKEA | KIT-Z50-TKEA | KIT-Z71-TKEA |
|---|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 4,00) | 4,20 (0,98 - 5,00) | 5,00 (0,98 - 6,00) | 7,10 (0,98 - 8,10) |
| EER [1] | Nominal (Min - Max) | W/W | 4,90 (5,00 - 4,29) | 4,07 (5,00 - 3,64) | 3,82 (4,90 - 3,25) | 3,60 (3,50 - 3,09) | 3,17 (2,33 - 3,03) |
| **SEER [2]** | | | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **8,50 A+++** | **6,10 A++** |
| Pdesign | | kW | 2,50 | 3,50 | 4,20 | 5,00 | 7,10 |
| Input power cooling | Nominal (Min - Max) | kW | 0,51 (0,17 - 0,70) | 0,86 (0,17 - 1,10) | 1,10 (0,20 - 1,54) | 1,39 (0,28 - 1,94) | 2,24 (0,42 - 2,67) |
| Annual energy consumption [3] | | kWh/a | 103 | 144 | 173 | 206 | 407 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 (0,85 - 5,40) | 4,00 (0,85 - 6,60) | 5,40 (0,98 - 7,25) | 5,80 (0,98 - 8,00) | 8,60 (0,98 - 9,90) |
| Heating capacity at -7°C | | kW | 3,33 | 4,07 | 4,30 | 5,00 | 6,13 |
| COP [1] | Nominal (Min - Max) | W/W | 4,86 (5,15 - 4,12) | 4,35 (5,15 - 3,63) | 4,00 (4,45 - 3,37) | 4,03 (2,88 - 3,20) | 3,51 (2,45 - 3,47) |
| **SCOP [2]** | | | **4,50 A+** | **4,40 A+** | **4,30 A+** | **4,40 A+** | **4,00 A+** |
| Pdesign at -10°C | | kW | 2,80 | 3,60 | 3,80 | 4,40 | 5,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,70 (0,17 - 1,31) | 0,92 (0,17 - 1,82) | 1,35 (0,22 - 2,15) | 1,44 (0,34 - 2,50) | 2,45 (0,40 - 2,85) |
| Annual energy consumption [3] | | kWh/a | 871 | 1145 | 1237 | 1400 | 1925 |
| **Indoor unit** | | | **CS-Z25TKEA** | **CS-Z35TKEA** | **CS-Z42TKEA** | **CS-Z50TKEA** | **CS-Z71TKEA** |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 | 20 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 | 4 x 2,5 |
| Air Volume | Cool / Heat | m³/min | 10,4 / 11,7 | 10,7 / 12,4 | 18,2 / 20,2 | 19,2 / 21,3 | 20,2 / 21,0 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,4 | 2,8 | 4,1 |
| Sound pressure [4] | Cool (Hi / Lo / Q-Lo) | dB(A) | 39 / 25 / 21 | 42 / 28 / 21 | 43 / 32 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| | Heat (Hi / Lo / Q-Lo) | dB(A) | 41 / 27 / 22 | 43 / 30 / 22 | 44 / 35 / 29 | 44 / 37 / 30 | 47 / 38 / 35 |
| Dimension | H x W x D | mm | 295 x 919 x 194 | 295 x 919 x 194 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 9 | 10 | 12 | 12 | 13 |
| **Outdoor unit** | | | **CU-Z25TKEA** | **CU-Z35TKEA** | **CU-Z42TKEA** | **CU-Z50TKEA** | **CU-Z71TKEA** |
| Sound pressure [4] | Cool / Heat (Hi) | dB(A) | 46 / 48 | 48 / 50 | 48 / 50 | 48 / 50 | 52 / 54 |
| Dimension [5] | H x W x D | mm | 619 x 824 x 299 | 619 x 824 x 299 | 619 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 37 | 38 | 38 | 43 | 49 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 20 | 3 ~ 20 | 3 ~ 20 | 3 ~ 30 | 3 ~ 30 |
| Elevation difference (in/out) [6] | | m | 15 | 15 | 15 | 15 | 20 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 | 10 |
| Additional gas amount | | g/m | 10 | 10 | 10 | 15 | 25 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 0,96 / 0,648 | 1,00 / 0,675 | 1,08 / 0,729 | 1,15 / 0,776 | 1,32 / 0,891 |
| Operating range | Cool Min ~ Max | °C | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 | -20 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-SERVER-PKEA** | PCB for installation in server rooms with security |

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.

R32 | A+++ 8,50 SEER | A+ 4,50 SCOP | INVERTER | R2 ROTARY COMPRESSOR | AEROWINGS | 21dB(A) | -20°C COOLING MODE | -15°C HEATING MODE | R22/R410A RENEWAL | INTEGRATION TO P-LINK | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-Z25-TKEA. SUPER QUIET: For KIT-Z25-TKEA. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Wall Mounted Inverter+ • R32 GAS

**The wall mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.**

The compact design and flat face ensure discreet installation, even in a small space.







**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | **3,60kW** | **5,00kW** | **6,00kW** | **7,10kW** | **9,00kW** |
| **KIT** | | | **KIT-36PK2ZH5** | **KIT-50PK2ZH5** | **KIT-60PK2ZH5** | **KIT-71PK2ZH5** | **KIT-100PK2ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 ~ 4,00) | 5,00 (1,50 ~ 5,60) | 6,10 (2,00 ~ 7,10) | 7,10 (2,20 ~ 9,00) | 9,50 (3,10 ~ 10,50) |
| EER [1] | | W/W | 4,90 | 4,10 | 3,86 | 3,50 | 3,26 |
| **SEER [2]** | | | **8,00 A++** | **7,60 A++** | **7,20 A++** | **6,80 A++** | **6,40 A++** |
| Pdesign | | kW | 3,60 | 5,00 | 6,10 | 7,10 | 9,50 |
| Input power cooling | | kW | 0,74 | 1,22 | 1,58 | 2,03 | 2,91 |
| Annual energy consumption [3] | | kWh/a | 157 | 230 | 297 | 365 | 520 |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 ~ 5,00) | 5,60 (1,50 ~ 6,50) | 7,00 (1,80 ~ 8,00) | 8,00 (2,00 ~ 9,00) | 9,50 (3,10 ~ 11,50) |
| COP [1] | | W/W | 4,94 | 4,21 | 4,46 | 4,00 | 3,97 |
| **SCOP [2]** | | | **4,90 A++** | **4,70 A++** | **4,80 A++** | **4,70 A++** | **4,10 A+** |
| Pdesign at -10°C | | kW | 3,60 | 4,50 | 6,00 | 5,20 | 8,00 |
| Input power heating | | kW | 0,81 | 1,33 | 1,57 | 2,00 | 2,39 |
| Annual energy consumption [3] | | kWh/a | 1029 | 1340 | 1750 | 1549 | 2732 |
| **Indoor unit** | | | **S-36PK2E5B** | **S-50PK2E5B** | **S-60PK2E5B** | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 13,0 / 11,0 / 9,0 | 16,0 / 14,0 / 11,0 | 20,0 / 18,0 / 15,0 | 20,0 / 17,5 / 14,5 | 22,0 / 18,5 / 15,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 35 / 31 / 27 | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 13 | 13 | 14 | 14 | 14 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** | **U-60PZH2E5** | **U-71PZH2E5** | **U-100PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 3,55 / 3,40 / 3,25 | 5,70 / 5,50 / 5,25 | 7,70 / 7,35 / 7,05 | 9,55 / 9,10 / 8,75 | 13,50 / 12,90 / 12,40 |
| | Heat (Hi / Med / Lo) | A | 3,95 / 3,75 / 3,60 | 6,35 / 6,05 / 5,80 | 7,65 / 7,30 / 7,00 | 9,20 / 8,80 / 8,50 | 11,10 / 10,60 / 10,10 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 | 40 / 45 | 61 / 60 | 118 / 108 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 | 46 / 49 | 48 / 50 | 52 / 52 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 | 65 / 69 | 65 / 67 | 69 / 69 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 43 | 43 | 44 | 68 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 35 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,15 / 0,776 | 1,15 / 0,776 | 1,45 / 0,979 | 1,95 / 1,316 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-PACR3** | Interfaces to run 3 units on Backup and alternative run |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- Modern design with flat face and compact size
- Stylish matt white color
- DC FAN for better efficiency and control
- Six directional piping outlet
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Smooth and durable design

Stylish matt color matches with modern interiors. The sleek, compact design ensures a discreet installation - even where space is limited.

## Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

## Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

## Air distribution is altered depending on the operational mode




## Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

| | | | Three Phase | |
|---|---|---|---|---|
| | | | 7,10kW | 9,00kW |
| **KIT** | | | **KIT-71PK2ZH8** | **KIT-100PK2ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 ~ 9,00) | 9,50 (3,10 ~ 10,50) |
| EER [1] | | W/W | 3,50 | 3,26 |
| **SEER [2]** | | | **6,70 A++** | **6,30 A++** |
| Pdesign | | kW | 7,10 | 9,50 |
| Input power cooling | | kW | 2,03 | 2,91 |
| Annual energy consumption [3] | | kWh/a | 370 | 526 |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 ~ 9,00) | 9,50 (3,10 ~ 11,50) |
| COP [1] | | W/W | 4,00 | 3,97 |
| **SCOP [2]** | | | **4,70 A++** | **4,10 A+** |
| Pdesign at -10°C | | kW | 5,20 | 8,00 |
| Input power heating | | kW | 2,00 | 2,39 |
| Annual energy consumption [3] | | kWh/a | 1549 | 2732 |
| **Indoor unit** | | | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 20,0 / 17,5 / 14,5 | 22,0 / 18,5 / 15,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 47 / 44 / 40 | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 14 | 14 |
| **Outdoor unit** | | | **U-71PZH2E8** | **U-100PZH2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 3,20 / 3,05 / 2,95 | 4,60 / 4,35 / 4,20 |
| | Heat (Hi / Med / Lo) | A | 3,10 / 3,00 / 2,85 | 3,75 / 3,55 / 3,45 |
| Air volume | Cool / Heat | $m^3$/min | 61 / 60 | 118 / 108 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 68 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.




SEER and SCOP: For KIT-36PK2ZH5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Wall Mounted Inverter+
# • R32 GAS

**The wall mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.**

The compact design and flat face ensure discreet installation, even in a small space.







**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | |
|---|---|---|---|---|---|
| | | | **6,00kW** | **7,10kW** | **9,00kW** |
| **KIT** | | | **KIT-60PK2Z5** | **KIT-71PK2Z5** | **KIT-100PK2Z5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,10 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 9,00 (3,00 - 9,70) |
| EER [1] | Nominal (Min - Max) | W/W | 3,79 | 3,21 | 3,47 (5,36 - 3,13) |
| **SEER [2]** | | | **6,80 A++** | **6,40 A++** | **6,50 A++** |
| Pdesign | | kW | 6,10 | 7,10 | 9,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,61 | 2,21 | 2,59 (0,56 - 3,10) |
| Annual energy consumption [3] | | kWh/a | 314 | 388 | 485 |
| Heating capacity | Nominal (Min - Max) | kW | 6,10 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 9,00 (3,00 - 10,50) |
| COP [1] | Nominal (Min - Max) | W/W | 4,80 | 4,41 | 3,93 (5,36 - 3,56) |
| **SCOP [2]** | | | **4,70 A++** | **4,60 A++** | **3,90 A** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 9,00 |
| Input power heating | Nominal (Min - Max) | kW | 1,27 | 1,61 | 2,29 (0,56 - 2,95) |
| Annual energy consumption [3] | | kWh/a | 1787 | 1826 | 3231 |
| **Indoor unit** | | | **S-60PK2E5B** | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 20,0 / 18,0 / 15,0 | 20,0 / 18,0 / 15,0 | 22,0 / 18,5 / 15,0 |
| Moisture removal volume | | L/h | 2,0 | 3,0 | 4,3 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 47 / 44 / 40 | 47 / 44 / 40 | 49 / 45 / 41 |
| Sound power | Hi / Med / Lo | dB | 63 / 60 / 56 | 63 / 60 / 56 | 65 / 61 / 57 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 14 | 14 | 14 |
| **Outdoor unit** | | | **U-60PZ2E5** | **U-71PZ2E5** | **U-100PZ2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 7,85 / 7,50 / 7,20 | 10,70 / 10,20 / 9,85 | 12,10 / 11,50 / 11,10 |
| | Heat (Hi / Med / Lo) | A | 6,10 / 5,85 / 5,60 | 7,85 / 7,50 / 7,20 | 10,60 / 10,20 / 9,70 |
| Air volume | Cool / Heat | m³/min | 40 / 45 | 50 / 45 | 76 / 70 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 68 | 69 / 69 | 70 / 70 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 44 | 90 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 35 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 1,45 / 0,979 | 2,60 / 1,755 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-PACR3** | Interfaces to run 3 units on Backup and alternative run |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- Modern design with flat face and compact size
- Stylish matt white color
- DC FAN for better efficiency and control
- Six directional piping outlet
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

## Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

## Smooth and durable design

Stylish matt color matches with modern interiors. The sleek, compact design ensures a discreet installation - even where space is limited.

## Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

## Air distribution is altered depending on the operational mode




| | | | Three Phase |
|---|---|---|---|
| | | | 9,00kW |
| **KIT** | | | **KIT-100PK2Z8** |
| **Remote controller** | | | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 9,00 (3,00 - 9,70) |
| EER [1] | Nominal (Min - Max) | W/W | 3,47 (5,36 - 3,13) |
| **SEER [2]** | | | **6,50 A++** |
| Pdesign | | kW | 9,00 |
| Input power cooling | Nominal (Min - Max) | kW | 2,59 (0,56 - 3,10) |
| Annual energy consumption [3] | | kWh/a | 485 |
| Heating capacity | Nominal (Min - Max) | kW | 9,00 (3,00 - 10,50) |
| COP [1] | Nominal (Min - Max) | W/W | 3,93 (5,36 - 3,56) |
| **SCOP [2]** | | | **3,90 A** |
| Pdesign at -10°C | | kW | 9,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,29 (0,56 - 2,95) |
| Annual energy consumption [3] | | kWh/a | 3231 |
| **Indoor unit** | | | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 22,0 / 18,5 / 15,0 |
| Moisture removal volume | | L/h | 4,3 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 49 / 45 / 41 |
| Sound power | Hi / Med / Lo | dB | 65 / 61 / 57 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 |
| Net weight | | kg | 14 |
| **Outdoor unit** | | | **U-100PZ2E8** |
| Power source | | V | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 4,10 / 3,90 / 3,75 |
| | Heat (Hi / Med / Lo) | A | 3,60 / 3,45 / 3,30 |
| Air volume | Cool / Heat | m³/min | 76 / 70 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 52 / 52 |
| Sound power | Cool / Heat (Hi) | dB | 70 / 70 |
| Dimension | H x W x D | mm | 996 x 980 x 370 |
| Net weight | | kg | 90 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 |
| Pipe length for additional gas | | m | 30 |
| Additional gas amount | | g/m | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,60 / 1,755 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 6,80 SEER | A++ 4,70 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | DC FAN | R22 R410A R32 R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-60PK2Z5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite and Standard 4 Way 60x60 Cassette Inverter+ • R32 GAS

## Small and powerful, ideal for offices and restaurants

Standard units only for Twin, Triple and Double-twin combinations.







**CZ-KPY3AW**
Panel 700 x 700mm.

**CZ-KPY3BW**
Panel 625 x 625mm.





**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | |
|---|---|---|---|---|
| | | | 3,60kW | 5,00kW |
| **KIT** | | | **KIT-36PY2ZH5** | **KIT-50PY2ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) |
| EER [1] | | W/W | 4,68 | 3,68 |
| **SEER [2]** | | | **6,60 A++** | **6,40 A++** |
| Pdesign | | kW | 3,60 | 5,00 |
| Input power cooling | | kW | 0,77 | 1,36 |
| Annual energy consumption [3] | | kWh/a | 191 | 273 |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50-6,50) |
| COP [1] | | W/W | 4,26 | 3,46 |
| **SCOP [2]** | | | **4,60 A++** | **4,30 A+** |
| Pdesign at -10°C | | kW | 3,60 | 4,50 |
| Input power heating | | kW | 0,94 | 1,62 |
| Annual energy consumption [3] | | kWh/a | 1096 | 1465 |
| **Indoor unit** | | | **S-36PY2E5B** | **S-50PY2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 9,7 / 8,0 / 6,0 | 11,1 / 9,8 / 8,5 |
| Moisture removal volume | | L/h | 1,5 | 2,4 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 36 / 32 / 26 | 40 / 37 / 33 |
| Sound power | Hi / Med / Lo | dB | 51 / 47 / 41 | 55 / 52 / 48 |
| Dimension (H x W x D) / Net weight | Indoor | mm / kg | 288 x 583 x 583 / 18 | 288 x 583 x 583 / 18 |
| | CZ-KPY3AW Panel | mm / kg | 31 x 700 x 700 / 2,4 | 31 x 700 x 700 / 2,4 |
| | CZ-KPY3BW Panel | mm / kg | 31 x 625 x 625 / 2,4 | 31 x 625 x 625 / 2,4 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 3,65 / 3,50 / 3,35 | 6,35 / 6,10 / 5,85 |
| | Heat (Hi / Med / Lo) | A | 4,50 / 4,30 / 4,15 | 7,70 / 8,40 / 8,10 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 |
| Dimension / Net weight | H x W x D | mm / kg | 695 x 875 x 320 / 43 | 695 x 875 x 320 / 43 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 |
| Elevation difference (in/out) [5] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,15 / 0,776 | 1,15 / 0,776 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

R32 | A++ 6,60 SEER | A++ 6,40 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | R22 R410A R32 R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-36PY2ZH5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

## Technical focus

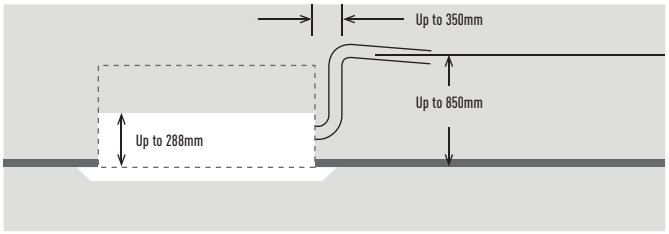
- Fresh air distribution
- Multidirectional air flow
- Integrated drain pump gives 850mm lift
- 3 speed centrifugal fan
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Lighter and slimmer, easier installation

Lightweight and very slim which makes installation possible even in narrow ceilings.
Designed to fit exactly into a 600x600mm ceiling grid without the need to alter the bar configuration.

## A drain height of approximately 850mm from the ceiling surface

The drain height can be increased by approx. 350mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.
Lightweight at 18kg, the unit is also very slim with a height of only 288mm, making installation possible even in narrow ceilings.




## Significant reduction of power consumption by using highly developed DC fan motors with variable speed, special heat exchangers, etc.

| | | | 3,60kW | 4,50kW | 5,00kW |
|---|---|---|---|---|---|
| **Indoor unit** | | | **S-36PY2E5B** | **S-45PY2E5B**[1)] | **S-50PY2E5B** |
| Cooling capacity | | kW | 3,60 | 4,50 | 5,00 |
| Heating capacity | | kW | 4,00 | 5,20 | 5,60 |
| Current | Cool | A | 0,30 | 0,32 | 0,35 |
| | Heat | A | 0,30 | 0,30 | 0,35 |
| Input power | Cool | kW | 0,04 | 0,04 | 0,05 |
| | Heat | kW | 0,04 | 0,04 | 0,04 |
| Air volume | Cool (Hi / Med / Lo) | m³/min | 9,7/8,0/6,0 | 10,0/8,8/7,0 | 11,1/9,8/8,5 |
| | Heat (Hi / Med / Lo) | m³/min | 9,9/8,2/6,0 | 10,3/9,2/7,0 | 11,1/9,8/8,7 |
| Moisture removal volume | | L/h | 1,5 | 2,2 | 2,4 |
| Sound pressure | Cool (Hi / Med / Lo) | dB(A) | 36/32/26 | 38/34/28 | 40/37/33 |
| | Heat (Hi / Med / Lo) | dB(A) | 36/32/26 | 38/34/28 | 40/37/33 |
| Sound power | Cool (Hi / Med / Lo) | dB | 51/47/41 | 53/49/43 | 55/52/48 |
| | Heat (Hi / Med / Lo) | dB | 51/47/41 | 53/49/43 | 55/52/48 |
| Dimension (H x W x D) | Indoor | mm | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 |
| | Panel CZ-KPY3AW | mm | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 |
| | Panel CZ-KPY3BW | mm | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 |
| Net weight | Indoor | kg | 18 | 18 | 18 |
| | Panel | kg | 2,4 | 2,4 | 2,4 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |
| Operating range | Cool Min ~ Max | °C | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 |
| | Heat Min ~ Max | °C | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 |

1) Only for multi combinations.
Recommended fuse for the indoor 3A.

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite 4 Way 90x90 Cassette Inverter+ • R32 GAS

## Large capacity PACi. Trusted comfort and high efficiency

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, and nanoe™ X air purification, the U2 Panasonic 4 way 90x90 Cassette offers high energy saving, fresh air and comfort.





**CZ-KPU3W**
Standard panel.









**CZ-KPU3AW**
Optional Econavi panel (CZ-RTC5B is required).



**CZ-CNEXU1**
Optional nanoe™ X kit (CZ-RTC5B is required).





**CZ-RWS3 + CZ-RWRU3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PU2ZH5** | **KIT-50PU2ZH5** | **KIT-60PU2ZH5** | **KIT-71PU2ZH5** | **KIT-100PU2ZH5** | **KIT-125PU2ZH5** | **KIT-140PU2ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 5,22 | 4,31 | 4,05 | 4,06 | 4,41 | 3,80 | 3,41 |
| **SEER [2]** | | | **8,50 A+++** | **8,20 A++** | **8,00 A++** | **7,70 A++** | **7,80 A++** | **7,68** | **7,24** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 0,69 | 1,16 | 1,48 | 1,75 | 2,27 | 3,29 | 4,11 |
| Annual energy consumption [3] | | kWh/a | 148 | 213 | 262 | 323 | 449 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 5,48 | 4,71 | 4,29 | 4,30 | 5,00 | 4,61 | 4,30 |
| **SCOP [2]** | | | **5,10 A+++** | **4,90 A++** | **4,80 A++** | **4,80 A++** | **4,90 A++** | **4,73** | **4,60** |
| Pdesign at -10°C | | kW | 3,60 | 4,50 | 6,00 | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 0,73 | 1,19 | 1,63 | 1,86 | 2,24 | 3,04 | 3,72 |
| Annual energy consumption [3] | | kWh/a | 988 | 1286 | 1750 | 1517 | 2286 | — | — |
| **Indoor unit** | | | **S-36PU2E5B** | **S-50PU2E5B** | **S-60PU2E5B** | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 14,5 / 13,0 / 11,5 | 16,5 / 13,5 / 11,5 | 21,0 / 16,0 / 13,0 | 22,0 / 16,0 / 13,0 | 36,0 / 26,0 / 18,0 | 37,0 / 27,0 / 19,0 | 38,0 / 29,0 / 20,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 30 / 28 / 27 | 32 / 29 / 27 | 36 / 31 / 28 | 37 / 31 / 28 | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 19 / 5 | 19 / 5 | 20 / 5 | 20 / 5 | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** | **U-60PZH2E5** | **U-71PZH2E5** | **U-100PZH2E5** | **U-125PZH2E5** | **U-140PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 3,35 / 3,20 / 3,05 | 5,45 / 5,25 / 5,00 | 7,30 / 6,95 / 6,70 | 8,25 / 7,90 / 7,55 | 10,40 / 9,95 / 9,50 | 15,20 / 14,50 / 13,90 | 19,10 / 18,20 / 17,50 |
| | Heat (Hi / Med / Lo) | A | 3,55 / 3,40 / 3,25 | 5,70 / 5,45 / 5,20 | 8,05 / 7,70 / 7,40 | 8,60 / 8,25 / 8,00 | 10,20 / 9,80 / 9,40 | 14,00 / 13,40 / 12,80 | 17,20 / 16,50 / 15,80 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 | 40 / 45 | 61 / 60 | 118 / 108 | 125 / 122 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 | 46 / 49 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 | 65 / 69 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 43 | 43 | 44 | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 35 | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,15 / 0,776 | 1,15 / 0,776 | 1,45 / 0,979 | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRU3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **CZ-KPU3AW** | Econavi exclusive panel |
| **CZ-CNEXU1** | nanoe™ X air purifying system |

| **Accessories** | |
|---|---|
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- High performance turbo fan, path system for heat exchanger
- nanoe™ X: The first air purifier technology in commercial air conditioning
- Econavi: Intelligent sensor to reduce waste of energy
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Lower noise in slow fan operation
- Light weight, easy piping
- Drain pump included

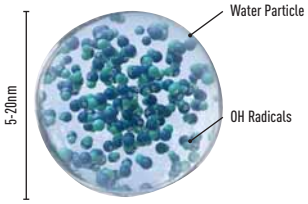
## Group control, circulation function

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.

## nanoe™ X deodorises and inhibits certain bacteria & viruses

The newly developed nanoe™ X device produces 10x times more OH radicals (4800 billion) [1] than regular nanoe™ device.
Greater amounts of OH radicals contained in nanoe™ X lead to outstanding effects in bacteria, viruses and allergens inhibition as well as deodorisation. A fresher and cleaner home awaits you.

1) Based on Panasonic Survey.
CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.




**4800 BILLION OH RADICALS / PER SECOND**

| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PU2ZH8** | **KIT-100PU2ZH8** | **KIT-125PU2ZH8** | **KIT-140PU2ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 ~ 9,00) | 10,00 (3,10 ~ 12,50) | 12,50 (3,20 ~ 14,00) | 14,00 (3,30 ~ 16,00) |
| EER [1] | | W/W | 4,06 | 4,41 | 3,80 | 3,41 |
| **SEER [2]** | | | **7,60 A++** | **7,70 A++** | **7,64** | **7,22** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 1,75 | 2,27 | 3,29 | 4,11 |
| Annual energy consumption [3] | | kWh/a | 327 | 455 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 ~ 9,00) | 11,20 (3,10 ~ 14,00) | 14,00 (3,20 ~ 16,00) | 16,00 (3,30 ~ 18,00) |
| COP [1] | | W/W | 4,30 | 5,00 | 4,61 | 4,30 |
| **SCOP [2]** | | | **4,80 A++** | **4,90 A++** | **4,73** | **4,60** |
| Pdesign at -10°C | | kW | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 1,86 | 2,24 | 3,04 | 3,72 |
| Annual energy consumption [3] | | kWh/a | 1517 | 2286 | — | — |
| **Indoor unit** | | | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 22,0 / 16,0 / 13,0 | 36,0 / 26,0 / 18,0 | 37,0 / 27,0 / 19,0 | 38,0 / 29,0 / 20,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 37 / 31 / 28 | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 20 / 5 | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-71PZH2E8** | **U-100PZH2E8** | **U-125PZH2E8** | **U-140PZH2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 2,75 / 2,65 / 2,55 | 3,50 / 3,35 / 3,20 | 5,15 / 4,90 / 4,70 | 6,45 / 6,15 / 5,90 |
| | Heat (Hi / Med / Lo) | A | 2,90 / 2,80 / 2,70 | 3,45 / 3,30 / 3,15 | 4,75 / 4,50 / 4,35 | 5,85 / 5,55 / 5,35 |
| Air volume | Cool / Heat | m³/min | 61 / 60 | 118 / 108 | 125 / 112 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A+++ 8,50 SEER | A+++ 5,10 SCOP | 28% ECONAVI | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | nanoeX | DC FAN | R22 R410A R32 R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-36PU2ZH5. ECONAVI and INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard 4 Way 90x90 Cassette Inverter+ • R32 GAS

## Large capacity PACi. Trusted comfort and high efficiency

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, and nanoe™ X air purification, the U2 Panasonic 4 way 90x90 Cassette offers high energy saving, fresh air and comfort.





**CZ-KPU3W**
Standard panel.





**CZ-KPU3AW**
Optional Econavi panel (CZ-RTC5B is required).



**CZ-CNEXU1**
Optional nanoe™ X kit (CZ-RTC5B is required).



**CZ-RWS3 + CZ-RWRU3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-60PU2Z5** | **KIT-71PU2Z5** | **KIT-100PU2Z5** | **KIT-125PU2Z5** | **KIT-140PU2Z5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 ~ 7,10) | 7,10 (2,00 ~ 7,70) | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 4,00 | 3,50 | 3,82 (5,36 - 2,88) | 3,58 (5,33 - 2,81) | 3,23 (5,32 - 2,73) |
| **SEER [2]** | | | **7,60 A++** | **7,60 A++** | **6,80 A++** | **6,75** | **6,51** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,50 | 2,03 | 2,62 (0,56 - 4,00) | 3,49 (0,60 - 4,80) | 4,34 (0,62 - 5,50) |
| Annual energy consumption [3] | | kWh/a | 276 | 327 | 515 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 ~ 7,00) | 7,10 (1,80 ~ 8,10) | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,72 | 4,36 | 4,93 (3,59 - 5,36 | 4,43 (3,57 - 5,50 | 4,18 (3,33 - 5,48) |
| **SCOP [2]** | | | **4,70 A++** | **4,70 A++** | **4,40 A+** | **4,01** | **3,89** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 1,27 | 1,63 | 2,03 (0,56 - 3,90) | 2,82 (0,60 - 4,20) | 3,35 (0,62 - 4,80) |
| Annual energy consumption [3] | | kWh/a | 1787 | 1787 | 3182 | — | — |
| **Indoor unit** | | | **S-60PU2E5B** | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 21,0 / 16,0 / 13,0 | 22,0 / 16,0 / 13,0 | 36,0 / 26,0 / 18,0 | 37,0 / 27,0 / 19,0 | 38,0 / 29,0 / 20,0 |
| Moisture removal volume | | L/h | 1,7 | 2,5 | 2,7 | 4,8 | 6,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 36 / 31 / 28 | 37 / 31 / 28 | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Sound power | Hi / Med / Lo | dB | 51 / 46 / 43 | 52 / 46 / 43 | 60 / 53 / 47 | 61 / 54 / 48 | 62 / 55 / 49 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 20 / 5 | 20 / 5 | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-60PZ2E5** | **U-71PZ2E5** | **U-100PZ2E5** | **U-125PZ2E5** | **U-140PZ2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 7,40 / 7,05 / 6,75 | 9,95 / 9,50 / 9,10 | 12,10 / 11,50 / 11,10 | 16,30 / 15,60 / 15,00 | 20,40 / 19,50 / 18,70 |
| | Heat (Hi / Med / Lo) | A | 6,25 / 5,95 / 5,70 | 8,05 / 7,70 / 7,35 | 9,25 / 8,85 / 8,50 | 13,10 / 12,60 / 12,00 | 15,60 / 15,00 / 14,30 |
| Air volume | Cool / Heat | m³/min | 40 / 45 | 50 / 45 | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 68 | 69 / 69 | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 44 | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 35 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 1,45 / 0,979 | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRU3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **CZ-KPU3AW** | Econavi exclusive panel |
| **CZ-CNEXU1** | nanoe™ X air purifying system |

| **Accessories** | |
|---|---|
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- High performance turbo fan, path system for heat exchanger
- nanoe™ X: The first air purifier technology in commercial air conditioning
- Econavi: Intelligent sensor to reduce waste of energy
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Lower noise in slow fan operation
- Light weight, easy piping
- Drain pump included

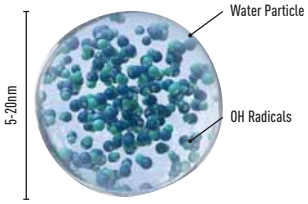
## Group control, circulation function

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.

## nanoe™ X deodorises and inhibits certain bacteria & viruses

The newly developed nanoe™ X device produces 10x times more OH radicals (4800 billion) [1] than regular nanoe™ device.
Greater amounts of OH radicals contained in nanoe™ X lead to outstanding effects in bacteria, viruses and allergens inhibition as well as deodorisation. A fresher and cleaner home awaits you.

1) Based on Panasonic Survey.
CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.




**4800 BILLION**
**OH RADICALS /**
**PER SECOND**

| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PU2Z8** | **KIT-125PU2Z8** | **KIT-140PU2Z8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,82 (5,36 - 2,88) | 3,58 (5,33 - 2,81) | 3,23 (5,32 - 2,73) |
| **SEER [2]** | | | **6,70 A++** | **6,73** | **6,49** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 2,62 (0,56 - 4,00) | 3,49 (0,60 - 4,80) | 4,34 (0,62 - 5,50) |
| Annual energy consumption [3] | | kWh/a | 521 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,93 (3,59 - 5,36) | 4,43 (3,57 - 5,50) | 4,18 (3,33 - 5,48) |
| **SCOP [2]** | | | **4,40 A+** | **4,01** | **3,89** |
| Pdesign at -10°C | | kW | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,03 (0,56 - 3,90) | 2,82 (0,60 - 4,20) | 3,35 (0,62 - 4,80) |
| Annual energy consumption [3] | | kWh/a | 3182 | — | — |
| **Indoor unit** | | | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 36,0 / 26,0 / 18,0 | 37,0 / 27,0 / 19,0 | 38,0 / 29,0 / 20,0 |
| Moisture removal volume | | L/h | 2,7 | 4,8 | 6,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Sound power | Hi / Med / Lo | dB | 60 / 53 / 47 | 61 / 54 / 48 | 62 / 55 / 49 |
| Dimension | Indoor (H x W x D) | mm | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-100PZ2E8** | **U-125PZ2E8** | **U-140PZ2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 4,10 / 3,90 / 3,75 | 5,45 / 5,20 / 5,00 | 6,85 / 6,50 / 6,25 |
| | Heat (Hi / Med / Lo) | A | 3,15 / 3,00 / 2,90 | 4,40 / 4,15 / 4,00 | 5,25 / 4,95 / 4,80 |
| Air volume | Cool / Heat | $m^3$/min | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 7,60 SEER | A++ 4,70 SCOP | 28% ECONAVI | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | nanoeX | DC FAN | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-60PU2Z5 and KIT-71PU2Z5. ECONAVI and INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Ceiling Inverter+ • R32 GAS

## Ceiling mounted units provide large and wide air distribution which is good for big rooms

The height and depth of all capacities are the same for unified appearance in mixed installations.







**CZ-RWS3 + CZ-RWRT3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PT2ZH5** | **KIT-50PT2ZH5** | **KIT-60PT2ZH5** | **KIT-71PT2ZH5** | **KIT-100PT2ZH5** | **KIT-125PT2ZH5** | **KIT-140PT2ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 5,07 | 4,17 | 4,08 | 3,78 | 4,05 | 3,45 | 3,10 |
| **SEER [2]** | | | **7,20 A++** | **7,00 A++** | **7,20 A++** | **6,70 A++** | **7,00 A++** | **6,59** | **5,70** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 0,71 | 1,20 | 1,47 | 1,88 | 2,47 | 3,62 | 4,52 |
| Annual energy consumption [3] | | kWh/a | 175 | 250 | 292 | 371 | 500 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 5,19 | 4,34 | 4,43 | 4,15 | 4,31 | 3,99 | 3,67 |
| **SCOP [2]** | | | **4,80 A++** | **4,60 A++** | **4,70 A++** | **4,60 A++** | **4,60 A++** | **4,36** | **4,00** |
| Pdesign at -10°C | | kW | 3,60 | 4,50 | 6,00 | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 0,77 | 1,29 | 1,58 | 1,93 | 2,60 | 3,51 | 4,36 |
| Annual energy consumption [3] | | kWh/a | 1050 | 1370 | 1787 | 1583 | 2435 | — | — |
| **Indoor unit** | | | **S-36PT2E5B** | **S-50PT2E5B** | **S-60PT2E5B** | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 14,0 / 12,0 / 10,5 | 15,0 / 12,5 / 10,5 | 20,0 / 17,0 / 14,5 | 21,0 / 18,0 / 15,5 | 30,0 / 25,0 / 23,0 | 34,0 / 28,0 / 24,0 | 35,0 / 29,0 / 25,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 36 / 32 / 29 | 37 / 33 / 29 | 38 / 34 / 30 | 39 / 35 / 31 | 42 / 37 / 35 | 46 / 40 / 36 | 47 / 41 / 37 |
| Dimension | H x W x D | mm | 235 x 960 x 690 | 235 x 960 x 690 | 235 x 1275 x 690 | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 27 | 27 | 33 | 33 | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** | **U-60PZH2E5** | **U-71PZH2E5** | **U-100PZH2E5** | **U-125PZH2E5** | **U-140PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 3,35 / 3,25 / 3,10 | 5,60 / 5,35 / 5,10 | 7,15 / 6,85 / 6,55 | 8,80 / 8,45 / 8,10 | 11,40 / 10,90 / 10,50 | 16,80 / 16,00 / 15,40 | 21,00 / 20,10 / 19,30 |
| | Heat (Hi / Med / Lo) | A | 3,65 / 3,50 / 3,35 | 6,10 / 5,85 / 5,60 | 7,75 / 7,40 / 7,10 | 8,90 / 8,50 / 8,20 | 12,00 / 11,50 / 11,00 | 16,20 / 15,50 / 14,90 | 20,30 / 19,40 / 18,60 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 | 40 / 45 | 61 / 60 | 118 / 108 | 125 / 122 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 | 46 / 49 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 | 65 / 69 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 43 | 43 | 44 | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 35 | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,15 / 0,776 | 1,15 / 0,776 | 1,45 / 0,979 | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

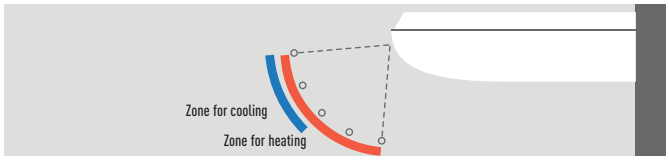
| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRT3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

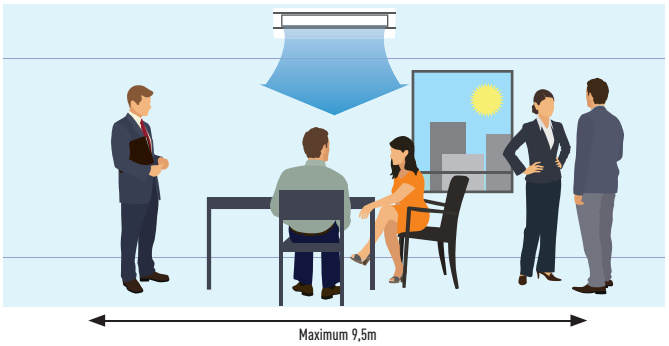
- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5m
- Fresh air connection available on the unit
- Slim design with 235m height fits narrow space
- Silent operation
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Air distribution is altered depending on the operational mode




## Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5m. This is ideal for wide rooms. The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.




| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | **7,10kW** | **10,00kW** | **12,50kW** | **14,00kW** |
| **KIT** | | | **KIT-71PT2ZH8** | **KIT-100PT2ZH8** | **KIT-125PT2ZH8** | **KIT-140PT2ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 3,78 | 4,05 | 3,45 | 3,10 |
| **SEER [2]** | | | **6,60 A++** | **6,90 A++** | **6,56** | **6,23** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 1,88 | 2,47 | 3,62 | 4,52 |
| Annual energy consumption [3] | | kWh/a | 375 | 507 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 4,15 | 4,31 | 3,99 | 3,67 |
| **SCOP [2]** | | | **4,60 A++** | **4,60 A++** | **4,36** | **4,28** |
| Pdesign at -10°C | | kW | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 1,93 | 2,60 | 3,51 | 4,36 |
| Annual energy consumption [3] | | kWh/a | 1583 | 2435 | — | — |
| **Indoor unit** | | | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 21,0 / 18,0 / 15,5 | 30,0 / 25,0 / 23,0 | 34,0 / 28,0 / 24,0 | 35,0 / 29,0 / 25,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 39 / 35 / 31 | 42 / 37 / 35 | 46 / 40 / 36 | 47 / 41 / 37 |
| Dimension | H x W x D | mm | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 33 | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-71PZH2E8** | **U-100PZH2E8** | **U-125PZH2E8** | **U-140PZH2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 2,95 / 2,85 / 2,75 | 3,85 / 3,65 / 3,55 | 5,65 / 5,40 / 5,20 | 7,10 / 6,75 / 6,50 |
| | Heat (Hi / Med / Lo) | A | 3,00 / 2,90 / 2,80 | 4,05 / 3,85 / 3,75 | 5,50 / 5,20 / 5,05 | 6,85 / 6,50 / 6,30 |
| Air volume | Cool / Heat | m³/min | 61 / 60 | 118 / 108 | 125 / 112 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 7,20 SEER | A++ 4,80 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | R22 R410A R32 R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-36PT2ZH5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Ceiling Inverter+ • R32 GAS

## Ceiling mounted units provide large and wide air distribution which is good for big rooms

The height and depth of all capacities are the same for unified appearance in mixed installations.







**CZ-RWS3 + CZ-RWRT3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-60PT2Z5** | **KIT-71PT2Z5** | **KIT-100PT2Z5** | **KIT-125PT2Z5** | **KIT-140PT2Z5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 ~ 7,10) | 7,10 (2,00 ~ 7,70) | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 4,00 | 3,55 | 3,64 (5,36 - 2,80) | 3,32 (5,33 - 2,77) | 2,98 (5,32 - 2,73) |
| **SEER [2]** | | | **6,80A++** | **6,50A++** | **6,50A++** | **5,77** | **5,49** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,50 | 2,00 | 2,75 (0,56 - 4,10) | 3,76 (0,60 - 4,88) | 4,70 (0,62 - 5,50) |
| Annual energy consumption [3] | | kWh/a | 309 | 382 | 535 | 1300 | 1530 |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 ~ 7,00) | 7,10 (1,80 ~ 8,10) | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,80 | 4,41 | 4,24 (5,36 - 3,50) | 3,89 (4,52 - 3,41) | 3,70 (5,48 - 3,08) |
| **SCOP [2]** | | | **4,60A++** | **4,30A+** | **4,20 A+** | **3,75** | **3,70** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 10,00 | 12,50 | 13,60 |
| Input power heating | Nominal (Min - Max) | kW | 1,25 | 1,62 | 2,36 (0,56 - 4,00) | 3,21 (0,73 - 4,40) | 3,78 (0,62 - 5,20) |
| Annual energy consumption [3] | | kWh/a | 1826 | 1953 | 3324 | 4669 | 5153 |
| **Indoor unit** | | | **S-60PT2E5B** | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 20,0 / 17,0 / 14,5 | 21,0 / 18,0 / 15,5 | 30 / 25 / 23 | 34 / 28 / 24 | 35 / 29 / 25 |
| Moisture removal volume | | L/h | 3,4 | 4,2 | 6,0 | 7,9 | 9,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 38/34/30 | 39/35/31 | 42/37/35 | 46/40/36 | 47/41/37 |
| Sound power | Hi / Med / Lo | dB | 56/52/48 | 57/53/49 | 60/55/53 | 64/58/54 | 65/59/55 |
| Dimension | H x W x D | mm | 235 x 1275 x 690 | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 33 | 33 | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-60PZ2E5** | **U-71PZ2E5** | **U-100PZ2E5** | **U-125PZ2E5** | **U-140PZ2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 7,30 / 7,00 / 6,70 | 9,70 / 9,30 / 8,90 | 12,80 / 12,20 / 11,70 | 17,60 / 16,90 / 16,20 | 22,10 / 21,20 / 20,30 |
| | Heat (Hi / Med / Lo) | A | 6,05 / 5,80 / 5,55 | 7,85 / 7,50 / 7,20 | 10,90 / 10,40 / 10,00 | 15,00 / 14,30 / 13,70 | 17,70 / 16,90 / 16,20 |
| Air volume | Cool / Heat | $m^3$/min | 40 / 45 | 50 / 45 | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 68 | 69 / 69 | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 44 | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 35 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 1,45 / 0,979 | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

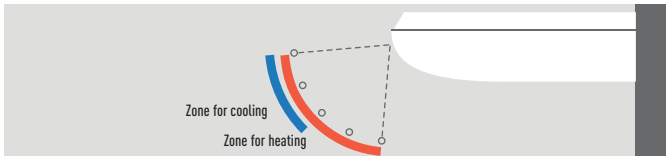
| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRT3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

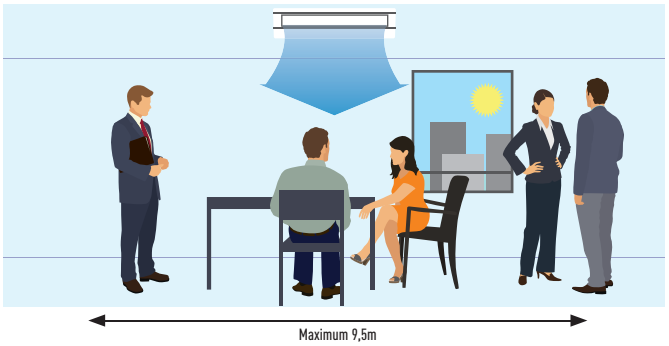
- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5m
- Fresh air connection available on the unit
- Slim design with 235m height fits narrow space
- Silent operation
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Air distribution is altered depending on the operational mode




## Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5m. This is ideal for wide rooms. The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.




| | | | | Three Phase | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PT2Z8** | **KIT-125PT2Z8** | **KIT-140PT2Z8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,64 (5,36 - 2,80) | 3,32 (5,33 - 2,77) | 2,98 (5,32 - 2,73) |
| **SEER [2]** | | | **6,50 A++** | **5,75** | **5,48** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 2,75 (0,56 - 4,10) | 3,76 (0,60 - 4,88) | 4,70 (0,62 - 5,50) |
| Annual energy consumption [3] | | kWh/a | 538 | 1304 | 1534 |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,24 (5,36 - 3,50) | 3,89 (4,52 - 3,41) | 3,70 (5,48 - 3,08) |
| **SCOP [2]** | | | **4,20 A+** | **3,75** | **3,70** |
| Pdesign at -10°C | | kW | 10,00 | 12,50 | 13,60 |
| Input power heating | Nominal (Min - Max) | kW | 2,36 (0,56 - 4,00) | 3,21 (0,73 - 4,40) | 3,78 (0,62 - 5,20) |
| Annual energy consumption [3] | | kWh/a | 3324 | 4669 | 5153 |
| **Indoor unit** | | | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 30 / 25 / 23 | 34 / 28 / 24 | 35 / 29 / 25 |
| Moisture removal volume | | L/h | 6,0 | 7,9 | 9,0 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 42 / 37 / 35 | 46 / 40 / 36 | 47 / 41 / 37 |
| Sound power | Hi / Med / Lo | dB | 60 / 55 / 53 | 64 / 58 / 54 | 65 / 59 / 55 |
| Dimension | H x W x D | mm | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-100PZ2E8** | **U-125PZ2E8** | **U-140PZ2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 4,37 / 4,15 / 4,00 | 5,90 / 5,60 / 5,40 | 7,40 / 7,05 / 6,80 |
| | Heat (Hi / Med / Lo) | A | 3,72 / 3,55 / 3,40 | 5,00 / 4,75 / 4,60 | 5,90 / 5,60 / 5,40 |
| Air volume | Cool / Heat | m³/min | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [5] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 6,80 SEER | A++ 4,60 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | R22 R410A R32 R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-60PT2Z5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite High Static Pressure Hide Away Inverter+ • R32 GAS

**The ducted systems are the ideal solution for flexible, concealed air conditioning and the optional 200mm spigots ensure simple, hassle-free connection to spiral ductwork.**





**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PF1ZH5** | **KIT-50PF1ZH5** | **KIT-60PF1ZH5** | **KIT-71PF1ZH5** | **KIT-100PF1ZH5** | **KIT-125PF1ZH5** | **KIT-140PF1ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 4,74 | 4,03 | 3,68 | 3,84 | 4,13 | 3,52 | 3,26 |
| **SEER [2]** | | | **6,10 A++** | **5,90 A+** | **6,40 A++** | **6,50 A++** | **6,20 A++** | **5,88** | **5,73** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 0,76 | 1,24 | 1,63 | 1,85 | 2,42 | 3,55 | 4,30 |
| Annual energy consumption [3] | | kWh/a | 207 | 297 | 328 | 382 | 564 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 4,76 | 4,18 | 4,14 | 4,00 | 4,31 | 4,02 | 3,65 |
| **SCOP [2]** | | | **4,30 A+** | **4,20 A+** | **4,30 A+** | **4,60 A++** | **4,40 A+** | **4,26** | **4,18** |
| Pdesign at -10°C | | kW | 3,60 | 4,00 | 6,00 | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 0,84 | 1,34 | 1,69 | 2,00 | 2,60 | 3,48 | 4,38 |
| Annual energy consumption [3] | | kWh/a | 1172 | 1500 | 1953 | 1582 | 2545 | — | — |
| **Indoor unit** | | | **S-36PF1E5B** | **S-50PF1E5B** | **S-60PF1E5B** | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 70 (10 - 150) | 70 (10 - 150) | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 14,0 / 13,0 / 10,0 | 16,0 / 15,0 / 12,0 | 21,0 / 19,0 / 15,0 | 21,0 / 19,0 / 15,0 | 32,0 / 26,0 / 21,0 | 34,0 / 29,0 / 23,0 | 36,0 / 32,0 / 25,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 33 / 29 / 25 | 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Dimension | H x W x D | mm | 290 x 800 x 700 | 290 x 800 x 700 | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 28 | 28 | 33 | 33 | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** | **U-60PZH2E5** | **U-71PZH2E5** | **U-100PZH2E5** | **U-125PZH2E5** | **U-140PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 3,45 / 3,30 / 3,15 | 5,50 / 5,25 / 5,05 | 7,65 / 7,30 / 7,00 | 8,35 / 8,00 / 7,65 | 10,60 / 10,20 / 9,75 | 15,90 / 15,20 / 14,60 | 19,50 / 18,60 / 17,80 |
| | Heat (Hi / Med / Lo) | A | 3,85 / 3,70 / 3,55 | 6,05 / 5,80 / 5,55 | 7,95 / 7,60 / 7,25 | 8,90 / 8,50 / 8,25 | 11,50 / 11,00 / 10,50 | 15,60 / 14,90 / 14,30 | 19,90 / 19,00 / 18,20 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 | 40 / 45 | 61 / 60 | 118 / 108 | 125 / 122 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 | 46 / 49 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 | 65 / 69 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 43 | 43 | 44 | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 35 | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,15 / 0,776 | 1,15 / 0,776 | 1,45 / 0,979 | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-56DAF2** | Air Outlet Plenum S . .PF1E5B 36, 45 & 50 |
| **CZ-90DAF2** | Air Outlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-160DAF2** | Air Outlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-DUMPA90MF2** | Air Inlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-DUMPA160MF2** | Air Inlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- High ESP (external static pressure) up to 150 Pa
- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required)
- DC FAN for better efficiency and control
- Built in drain pump
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## The static pressure outside the unit can be increased up to 150 Pa

| Type | | 36 | 45 | 50 | 60 | 71 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|---|---|---|
| Standard | Pa | 70 | 70 | 70 | 70 | 70 | 100 | 100 | 100 |
| Maximum available setting | Pa | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |

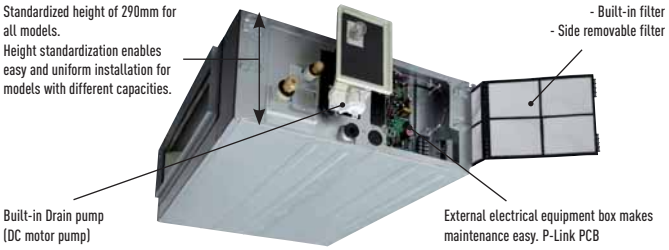
## More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated up to 785mm from the base of the unit.

## Plenums

| Air Outlet Plenum (without regulation adaptor) | Diameters | Model |
|---|---|---|
| 36, 45 & 50 | 2xØ 200 | CZ-56DAF2 |
| 60 & 71 | 3xØ 200 | CZ-90DAF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-160DAF2 |

| Air Inlet Plenum | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-DUMPA90MF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-DUMPA160MF2 |




| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PF1ZH8** | **KIT-100PF1ZH8** | **KIT-125PF1ZH8** | **KIT-140PF1ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 3,84 | 4,13 | 3,52 | 3,26 |
| **SEER [2]** | | | **6,40 A++** | **6,10 A++** | **5,87** | **5,72** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 1,85 | 2,42 | 3,55 | 4,30 |
| Annual energy consumption [3] | | kWh/a | 388 | 574 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 4,00 | 4,31 | 4,02 | 3,65 |
| **SCOP [2]** | | | **4,60 A++** | **4,40 A+** | **4,26** | **4,18** |
| Pdesign at -10°C | | kW | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 2,00 | 2,60 | 3,48 | 4,38 |
| Annual energy consumption [3] | | kWh/a | 1582 | 2545 | — | — |
| **Indoor unit** | | | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 21,0 / 19,0 / 15,0 | 32,0 / 26,0 / 21,0 | 34,0 / 29,0 / 23,0 | 36,0 / 32,0 / 25,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Dimension | H x W x D | mm | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 33 | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-71PZH2E8** | **U-100PZH2E8** | **U-125PZH2E8** | **U-140PZH2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 2,80 / 2,70 / 2,60 | 3,60 / 3,40 / 3,30 | 5,40 / 5,10 / 4,95 | 6,60 / 6,25 / 6,05 |
| | Heat (Hi / Med / Lo) | A | 3,00 / 2,90 / 2,80 | 3,90 / 3,70 / 3,55 | 5,30 / 5,00 / 4,85 | 6,70 / 6,40 / 6,15 |
| Air volume | Cool / Heat | m³/min | 61 / 60 | 118 / 108 | 125 / 112 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Medium External static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 6,50 SEER | A++ 4,60 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | FILTER INCLUDED | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-71PF1ZH5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard High Static Pressure Hide Away Inverter+ • R32 GAS

**The ducted systems are the ideal solution for flexible, concealed air conditioning and the optional 200mm spigots ensure simple, hassle-free connection to spiral ductwork.**







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | **6,00kW** | **7,10kW** | **10,00kW** | **12,50kW** | **14,00kW** |
| **KIT** | | | **KIT-60PF1Z5** | **KIT-71PF1Z5** | **KIT-100PF1Z5** | **KIT-125PF1Z5** | **KIT-140PF1Z5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 ~ 7,10) | 7,10 (2,00 ~ 7,70) | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,51 | 3,23 | 3,66 (5,36 - 2,81) | 3,52 (5,33 - 2,80) | 3,18 (5,32 - 2,70) |
| **SEER [2]** | | | **6,10 A++** | **6,10 A++** | **5,60 A+** | **5,56** | **5,38** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,71 | 2,20 | 2,73 (0,56 - 4,09) | 3,55 (0,60 - 4,82) | 4,40 (0,62 - 5,56) |
| Annual energy consumption [3] | | kWh/a | 344 | 407 | 625 | 787 | 911 |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 ~ 7,00) | 7,10 (1,80 ~ 8,10) | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,55 | 4,13 | 4,31 (5,36 - 3,51) | 4,02 (5,50 - 3,45) | 3,79 (5,48 - 3,13) |
| **SCOP [2]** | | | **4,20 A+** | **4,30 A+** | **3,80 A** | **3,61** | **3,54** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 10,00 | 12,50 | 13,60 |
| Input power heating | Nominal (Min - Max) | kW | 1,32 | 1,72 | 2,32 (0,56 - 3,99) | 3,11 (0,60 - 4,35) | 3,69 (0,62 - 5,12) |
| Annual energy consumption [3] | | kWh/a | 2000 | 1953 | 3684 | 4848 | 5379 |
| **Indoor unit** | | | **S-60PF1E5B** | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 21,0 / 19,0 / 15,0 | 21,0 / 19,0 / 15,0 | 32,0 / 26,0 / 21,0 | 34,0 / 29,0 / 23,0 | 36,0 / 32,0 / 25,0 |
| Moisture removal volume | | L/h | 3,4 | 4,2 | 6,0 | 7,9 | 9,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Sound power | Hi / Med / Lo | dB | 57 / 54 / 48 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 |
| Dimension | H x W x D | mm | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 33 | 33 | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-60PZ2E5** | **U-71PZ2E5** | **U-100PZ2E5** | **U-125PZ2E5** | **U-140PZ2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool (Hi / Med / Lo) | A | 8,05 / 7,70 / 7,35 | 10,40 / 9,95 / 9,50 | 12,10 / 11,60 / 11,10 | 16,10 / 15,50 / 14,80 | 20,20 / 19,30 / 18,60 |
| | Heat (Hi / Med / Lo) | A | 6,05 / 5,80 / 5,55 | 8,10 / 7,75 / 7,40 | 10,10 / 9,70 / 9,30 | 14,00 / 13,40 / 12,90 | 16,80 / 16,00 / 15,30 |
| Air volume | Cool / Heat | m³/min | 40 / 45 | 50 / 45 | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 68 | 69 / 69 | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 44 | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 35 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 1,45 / 0,979 | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-90DAF2** | Air Outlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-160DAF2** | Air Outlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-DUMPA90MF2** | Air Inlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-DUMPA160MF2** | Air Inlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- High ESP (external static pressure) up to 150 Pa
- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required)
- DC FAN for better efficiency and control
- Built in drain pump
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## The static pressure outside the unit can be increased up to 150 Pa

| Type | | 60 | 71 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|
| Standard | Pa | 70 | 70 | 100 | 100 | 100 |
| Maximum available setting | Pa | 150 | 150 | 150 | 150 | 150 |

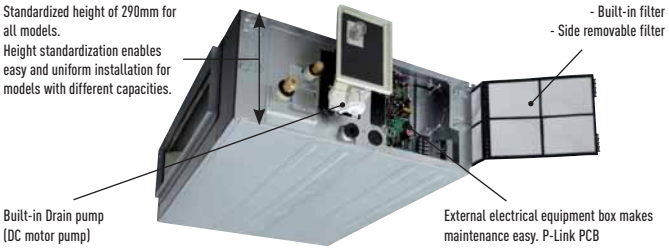
## More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated up to 785mm from the base of the unit.

## Plenums

| Air Outlet Plenum (without regulation adaptor) | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-90DAF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-160DAF2 |

| Air Inlet Plenum | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-DUMPA90MF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-DUMPA160MF2 |




| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PF1Z8** | **KIT-125PF1Z8** | **KIT-140PF1Z8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,66 (5,36 - 2,81) | 3,52 (5,33 - 2,80) | 3,18 (5,32 - 2,70) |
| **SEER [2]** | | | **5,60 A+** | **5,54** | **5,37** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 2,73 (0,56 - 4,09) | 3,55 (0,60 - 4,82) | 4,40 (0,62 - 5,56) |
| Annual energy consumption [3] | | kWh/a | 625 | 790 | 912 |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | Nominal (Min - Max) | W/W | 4,31 (5,36 - 3,51) | 4,02 (5,50 - 3,45) | 3,79 (5,48 - 3,13) |
| **SCOP [2]** | | | **3,80 A** | **3,61** | **3,54** |
| Pdesign at -10°C | | kW | 10,00 | 12,50 | 13,60 |
| Input power heating | Nominal (Min - Max) | kW | 2,32 (0,56 - 3,99) | 3,11 (0,60 - 4,35) | 3,69 (0,62 - 5,12) |
| Annual energy consumption [3] | | kWh/a | 3684 | 4848 | 5379 |
| **Indoor unit** | | | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 32,0 / 26,0 / 21,0 | 34,0 / 29,0 / 23,0 | 36,0 / 32,0 / 25,0 |
| Moisture removal volume | | L/h | 6,0 | 7,9 | 9,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Sound power | Hi / Med / Lo | dB | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 |
| Dimension | H x W x D | mm | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-100PZ2E8** | **U-125PZ2E8** | **U-140PZ2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool (Hi / Med / Lo) | A | 4,15 / 3,95 / 3,80 | 5,40 / 5,10 / 4,95 | 6,75 / 6,40 / 6,15 |
| | Heat (Hi / Med / Lo) | A | 3,45 / 3,30 / 3,20 | 4,70 / 4,45 / 4,30 | 5,60 / 5,30 / 5,15 |
| Air volume | Cool / Heat | m³/min | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Medium External static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A++ 6,10 SEER | A+ 4,30 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | DC FAN | FILTER INCLUDED | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-71PF1Z5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Low Static Pressure Hide Away Inverter+ • R32 GAS

**The depth of only 250mm provides greater installation flexibility and the unit can be used in more applications. Ideal for sites with narrow ceiling voids.**

**Ultra-slim profile: 250mm height for all models.**







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PN1ZH5** | **KIT-50PN1ZH5** | **KIT-60PN1ZH5** | **KIT-71PN1ZH5** | **KIT-100PN1ZH5** | **KIT-125PN1ZH5** | **KIT-140PN1ZH5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,00 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 3,85 | 3,40 | 3,41 | 3,40 | 3,95 | 3,35 | 3,15 |
| **SEER [2]** | | | **5,10 A** | **5,10 A** | **6,00 A+** | **6,00 A+** | **6,00 A+** | **5,95** | **5,84** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 0,93 | 1,47 | 1,76 | 2,09 | 2,53 | 3,73 | 4,45 |
| Annual energy consumption [3] | | kWh/a | 246 | 342 | 350 | 414 | 582 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 7,00) | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,30 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 4,40 | 3,50 | 3,80 | 3,90 | 4,00 | 3,70 | 3,50 |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **4,00 A+** | **4,00 A+** | **4,00 A+** | **3,91** | **3,80** |
| Pdesign at -10°C | | kW | 3,60 | 3,80 | 5,60 | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 0,91 | 1,60 | 1,84 | 2,05 | 2,80 | 3,78 | 4,45 |
| Annual energy consumption [3] | | kWh/a | 1258 | 1573 | 2095 | 1914 | 2799 | — | — |
| **Indoor unit** | | | **S-36PN1E5B** | **S-50PN1E5B** | **S-60PN1E5B** | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 25 (10 - 80) | 25 (10 - 80) | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Hi / Med / Lo | m³/min | 14,0 / 12,0 / 10,0 | 16,0 / 13,0 / 10,0 | 22,0 / 20,0 / 16,0 | 22,0 / 20,0 / 16,0 | 36,0 / 33,0 / 26,0 | 38,0 / 35,0 / 28,0 | 40,0 / 37,0 / 30,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 35 / 33 / 30 | 36 / 34 / 30 | 38 / 36 / 31 | 38 / 36 / 31 | 39 / 37 / 32 | 40 / 38 / 33 | 41 / 39 / 34 |
| Dimension | H x W x D | mm | 250 x 780 x 650 | 250 x 780 x 650 | 250 x 1000 x 650 | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | Indoor / Panel | kg | 29 | 29 | 32 | 32 | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-36PZH2E5** | **U-50PZH2E5** | **U-60PZH2E5** | **U-71PZH2E5** | **U-100PZH2E5** | **U-125PZH2E5** | **U-140PZH2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool | A | 4,20 / 4,00 / 3,85 | 6,50 / 6,20 / 5,95 | 8,20 / 7,85 / 7,50 | 9,45 / 9,00 / 8,60 | 11,20 / 10,70 / 10,20 | 16,90 / 16,10 / 15,40 | 20,00 / 19,30 / 18,40 |
| | Heat | A | 4,10 / 3,90 / 3,75 | 7,15 / 6,85 / 6,55 | 8,60 / 8,25 / 7,85 | 9,20 / 8,85 / 8,45 | 2,40 / 11,90 / 11,40 | 17,00 / 16,20 / 15,60 | 20,20 / 19,30 / 18,50 |
| Air volume | Cool / Heat | m³/min | 40 / 40 | 40 / 45 | 40 / 45 | 61 / 60 | 118 / 108 | 125 / 122 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 43 / 44 | 45 / 48 | 46 / 49 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 62 / 64 | 64 / 68 | 65 / 69 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 43 | 43 | 44 | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 35 | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ | Eq. | kg / T | 1,15 / 0,776 | 1,15 / 0,776 | 1,45 / 0,979 | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

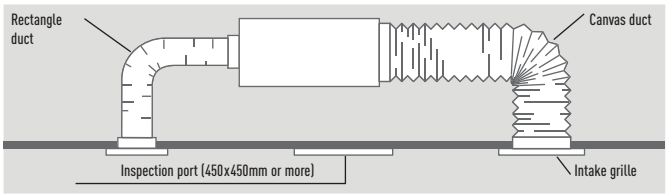
| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required. S-60/71/100/125/140PN1E5B models only)
- Compact indoor units without loosing static pressure (only 250mm high)
- 50 Pa static pressure
- Easy maintenance and service via external electrical box
- 3 speed centrifugal fan through wired or Infrared remote controller
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

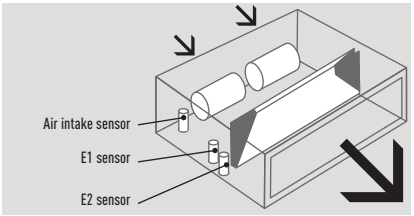
## System Example

An inspection port (450mmx450mm or more) is required at the control-box side of the indoor unit body.




## Cold Drafts Reduction at Heating

Accurate DX Coil temperature measurement by E1 and E2 sensor to reduce cold drafts at heating and increasing efficiency and comfort.




Before spec-in, please consult with an authorized Panasonic dealer.

| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PN1ZH8** | **KIT-100PN1ZH8** | **KIT-125PN1ZH8** | **KIT-140PN1ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) |
| EER [1] | | W/W | 3,40 | 3,95 | 3,35 | 3,15 |
| **SEER [2]** | | | **5,90 A+** | **5,90 A+** | **5,93** | **5,82** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 2,09 | 2,53 | 3,73 | 4,45 |
| Annual energy consumption [3] | | kWh/a | 418 | 588 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,30 - 16,00) | 16,00 (3,30 - 18,00) |
| COP [1] | | W/W | 3,90 | 4,00 | 3,70 | 3,60 |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **3,91** | **3,80** |
| Pdesign at -10°C | | kW | 5,20 | 8,00 | 9,50 | 10,60 |
| Input power heating | | kW | 2,05 | 2,80 | 3,78 | 4,45 |
| Annual energy consumption [3] | | kWh/a | 1914 | 2799 | — | — |
| **Indoor unit** | | | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Hi / Med / Lo | m³/min | 22,0 / 20,0 / 16,0 | 36,0 / 33,0 / 26,0 | 38,0 / 35,0 / 28,0 | 46,0 / 37,0 / 30,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 38 / 36 / 31 | 39 / 37 / 32 | 40 / 38 / 33 | 41 / 39 / 34 |
| Dimension | H x W x D | mm | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | Indoor / Panel | kg | 32 | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-71PZH2E8** | **U-100PZH2E8** | **U-125PZH2E8** | **U-140PZH2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool | A | 3,20 / 3,05 / 2,95 | 3,75 / 3,55 / 3,45 | 5,65 / 5,40 / 5,20 | 11,70 / 11,20 / 10,70 |
| | Heat | A | 3,20 / 2,95 / 2,85 | 4,20 / 4,00 / 3,85 | 5,75 / 5,45 / 5,25 | 6,80 / 6,45 / 6,20 |
| Air volume | Cool / Heat | m³/min | 61 / 60 | 118 / 108 | 125 / 112 | 129 / 116 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 68 | 99 | 99 | 99 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A+ 6,00 SEER | A+ 4,00 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | FILTER INCLUDED | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: KIT-60PN1ZH5, KIT-71PN1ZH5 and KIT-100PN1ZH5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Low Static Pressure Hide Away Inverter+ • R32 GAS

The depth of only 250mm provides greater installation flexibility and the unit can be used in more applications. Ideal for sites with narrow ceiling voids.

**Ultra-slim profile: 250mm height for all models.**







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-60PN1Z5** | **KIT-71PN1Z5** | **KIT-100PN1Z5** | **KIT-125PN1Z5** | **KIT-140PN1Z5** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 ~ 7,10) | 7,10 (2,00 ~ 7,70) | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | | W/W | 3,31 | 3,11 | 3,30 | 3,20 | 3,00 |
| **SEER [2]** | | | **5,80 A+** | **5,80 A+** | **5,40 A** | **5,13** | **5,02** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 1,81 | 2,28 | 3,03 | 3,90 | 4,65 |
| Annual energy consumption [3] | | kWh/a | 361 | 428 | 641 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 ~ 7,00) | 7,10 (1,80 ~ 8,10) | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | | W/W | 3,90 | 3,72 | 3,91 | 3,60 | 3,55 |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **3,90 A** | **3,60** | **3,51** |
| Pdesign at -10°C | | kW | 5,60 | 5,60 | 7,60 | 12,50 | 14,00 |
| Input power heating | | kW | 1,54 | 1,90 | 2,56 | 3,46 | 3,94 |
| Annual energy consumption [3] | | kWh/a | 2095 | 2100 | 3589 | — | — |
| **Indoor unit** | | | **S-60PN1E5B** | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Hi / Med / Lo | m³/min | 22,0 / 20,0 / 16,0 | 22,0 / 20,0 / 16,0 | 36,0 / 33,0 / 26,0 | 38,0 / 35,0 / 28,0 | 40,0 / 37,0 / 30,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 38 / 36 / 31 | 38 / 36 / 31 | 39 / 37 / 32 | 40 / 38 / 33 | 41 / 39 / 34 |
| Dimension | H x W x D | mm | 250 x 1000 x 650 | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 32 | 32 | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-60PZ2E5** | **U-71PZ2E5** | **U-100PZ2E5** | **U-125PZ2E5** | **U-140PZ2E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool | A | 8,30 / 8,00 / 7,60 | 10,60 / 10,10 / 9,60 | 14,00 / 13,30 / 12,80 | 17,90 / 17,10 / 16,50 | 21,50 / 20,50 / 19,60 |
| | Heat | A | 7,00 / 6,70 / 6,40 | 8,80 / 8,40 / 8,00 | 11,60 / 11,10 / 10,70 | 15,80 / 15,10 / 14,50 | 18,00 / 17,30 / 16,50 |
| Air volume | Cool / Heat | m³/min | 40 / 45 | 50 / 45 | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 68 | 69 / 69 | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 44 | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 35 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 1,45 / 0,979 | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

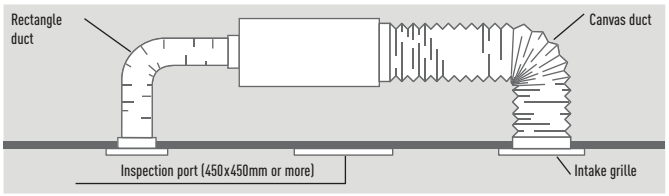
| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required. S-60/71/100/125/140PN1E5B models only)
- Compact indoor units without loosing static pressure (only 250mm high)
- 50 Pa static pressure
- Easy maintenance and service via external electrical box
- 3 speed centrifugal fan through wired or Infrared remote controller
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

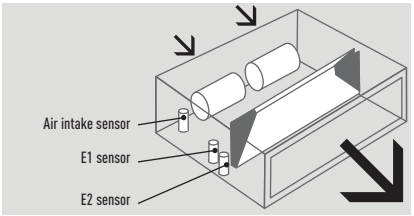
## System Example

An inspection port (450mmx450mm or more) is required at the control-box side of the indoor unit body.




## Cold Drafts Reduction at Heating

Accurate DX Coil temperature measurement by E1 and E2 sensor to reduce cold drafts at heating and increasing efficiency and comfort.




Before spec-in, please consult with an authorized Panasonic dealer.

| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PN1Z8** | **KIT-125PN1Z8** | **KIT-140PN1Z8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | | W/W | 3,30 | 3,21 | 3,01 |
| **SEER [2]** | | | **5,40 A** | **5,11** | **5,01** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | | kW | 3,03 | 3,90 | 4,65 |
| Annual energy consumption [3] | | kWh/a | 648 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| COP [1] | | W/W | 3,91 | 3,61 | 3,55 |
| **SCOP [2]** | | | **3,90 A** | **3,60** | **3,51** |
| Pdesign at -10°C | | kW | 7,60 | 12,50 | 14,00 |
| Input power heating | | kW | 2,56 | 3,46 | 3,94 |
| Annual energy consumption [3] | | kWh/a | 3589 | — | — |
| **Indoor unit** | | | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [4] | Nominal (Min - Max) | Pa | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Hi / Med / Lo | m³/min | 36,0 / 33,0 / 26,0 | 38,0 / 35,0 / 28,0 | 40,0 / 37,0 / 30,0 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 39 / 37 / 32 | 40 / 38 / 33 | 41 / 39 / 34 |
| Dimension | H x W x D | mm | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-100PZ2E8** | **U-125PZ2E8** | **U-140PZ2E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Current | Cool | A | 4,70 / 4,50 / 4,30 | 6,00 / 5,70 / 5,50 | 7,20 / 6,80 / 6,60 |
| | Heat | A | 3,90 / 3,70 / 3,60 | 5,30 / 5,00 / 4,90 | 6,00 / 5,70 / 5,50 |
| Air volume | Cool / Heat | m³/min | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

R32 | A+ 5,80 SEER | A+ 4,00 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | DC FAN | FILTER INCLUDED | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-60PN1Z5 and KIT-71PN1Z5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# NEW PANASONIC BIG PACi SERIES R32

20,00 – 25,00kW is ideally suited for small, mid retail applications.
In addition to its light net weight and compact body, split-able Hide Away design newly developed enables easy piping work in narrow installation space.



## Panasonic Big PACi, not only environmental friendly but also groundbreaking products

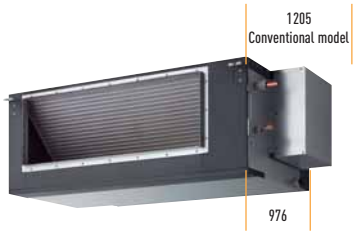
- High efficiency with Panasonic compressor as the driving force
- Compact & light indoor body
- Easy piping work with split-able Hide Away indoor design
- Separable indoor unit allows flexible installation to fit in narrow space
- Water Heat Exchanger compatibility
- Bluefin anti-rust coating
- Cloud Control compatible

## Compact and light indoor body keeping high efficiency

15% lighter weight vs conventional model helps installation work drastically.

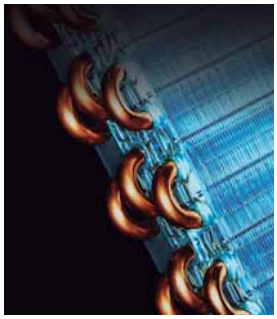
| | Conventional model | New |
|---|---|---|
| **20,00kW** | 100kg | **86kg** |
| **25,00kW** | 104kg | **88kg** |

**DEPTH WAS REDUCED BY 230mm**



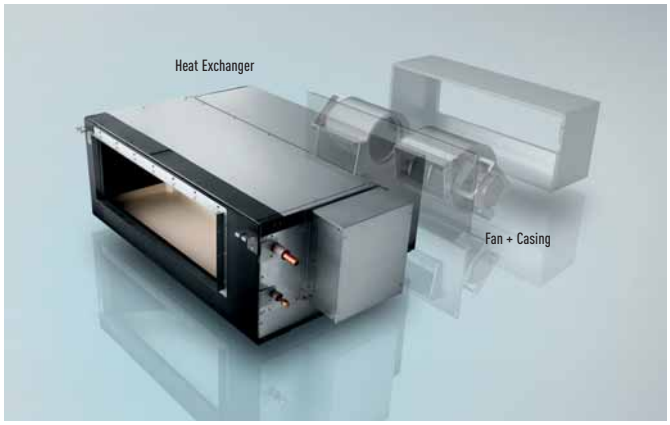

## Heat Exchanger with blue coated fins

Blue coated fins for corrosion resistance are equipped as standard in all R32 PACi models.



## Easy piping work with split-able Hide Away indoor design

Part of heat exchanger and part of fan (fan + casing) can be separated while being installed.
The Hide Away indoor unit newly designed for easy reassemble totally fits in narrow space.




## Water Heat Exchanger compatibility

New PACi Water Heat Exchanger is available to connect with Big PACi systems. Offering various possibilities for hydronic application, heating, cooling and DHW.

## Cloud Control compatibility

Big PACi is compatible with Panasonic Cloud controls from wherever you are, 24/7/365.

**Comfort cloud for end-users, owners**

Panasonic

**Panasonic AC Smart Cloud for professionals**

PANASONIC AC SMART CLOUD

# New Big PACi High Static Pressure Hide Away 20,00-25,00kW Inverter+ • R32 GAS





NEW 2019







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

## Big PACi with R32 has been introduced with full renewal of its indoor unit, offering hydronic application by PACi Water Heat Exchanger

Big PACi is useful and cost saving solution for small and mid size of projects, can be offered also with VRF system.
Compact and light indoor body keeping the high efficiency is split-able design for easy piping work at limited narrow space.

## Technical focus

- Highly efficient with compact indoor body, -16kg lighter than conventional model (10HP)
- Split-able Hide Away indoor design for easy & flexible piping work
- Better partial load control with Panasonic compressor
- Bluefin anti-rust coating
- PACi Water Heat Exchanger compatible
- Panasonic cloud control compatible
- 0-10V demand control

| | | | Three Phase | |
|---|---|---|---|---|
| | | | **20,00kW** | **25,00kW** |
| **KIT** | | | **KIT-200PE3ZH8** | **KIT-250PE3ZH8** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 19,50 (5,70 - 21,00) | 23,20 (6,10 - 27,00) |
| EER [1] | | W/W | 3,22 | 3,11 |
| **SEER [2]** | | | **5,25** | **4,84** |
| Pdesign | | kW | 19,50 | 23,20 |
| Input power cooling | | kW | 6,06 | 7,46 |
| Heating capacity | Nominal (Min - Max) | kW | 22,40 (5,00 - 25,00) | 28,00 (5,50 - 29,00) |
| COP [1] | | W/W | 3,61 | 3,41 |
| **SCOP [2]** | | | **3,61** | **3,64** |
| Pdesign at -10°C | | kW | 17,00 | 20,00 |
| Input power heating | | kW | 6,21 | 8,21 |
| **Indoor unit** | | | **S-200PE3E5B** | **S-250PE3E5B** |
| Power source | | V / ph / Hz | 220 - 230 - 240 / 1 / 50 | 220 - 230 - 240 / 1 / 50 |
| External static pressure at shipment (adjustable) | | Pa | 75 [3] - 120 - 180 | 75 [3] - 130 - 200 |
| Air volume | Hi / Med / Lo | m³/min | 72 / 63 / 53 | 84 / 72 / 59 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 46 / 44 / 41 | 47 / 45 / 42 |
| Dimension | H x W x D | mm | 486 x 1456 x 916 | 486 x 1456 x 916 |
| Net weight | | kg | 86 | 88 |
| **Outdoor unit** | | | **U-200PZH2E8** | **U-250PZH2E8** |
| Power source | | V / ph / Hz | 380 - 400 - 415 / 3 / 50 | 380 - 400 - 415 / 3 / 50 |
| Recommended fuse | | A | 30 | 30 |
| Air volume | Cool / Heat | m³/min | 164 / 164 | 160 / 160 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 59 / 61 | 59 / 63 |
| Sound power | Cool / Heat (Hi) | dB | 77 / 79 | 78 / 82 |
| Dimension [5] | H x W x D | mm | 1500 x 980 x 370 | 1500 x 980 x 370 |
| Net weight | | kg | 117 | 128 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 1/2 (12,70) |
| | Gas pipe | Inch (mm) | 1 (25,40) | 1 (25,40) |
| Pipe length range | | m | 5 ~ 90 | 5 ~ 60 |
| Elevation difference (in/out) [6] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 60 | 80 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 4,20 / 2,835 | 5,20 / 3,51 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |

| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100mm for indoor unit or 70mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. * No filter included. * These models will be available in May 2019.

R32 | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | -15°C COOLING MODE | -20°C HEATING MODE | BLUEFIN | LARGE FAN | R22/R410A RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

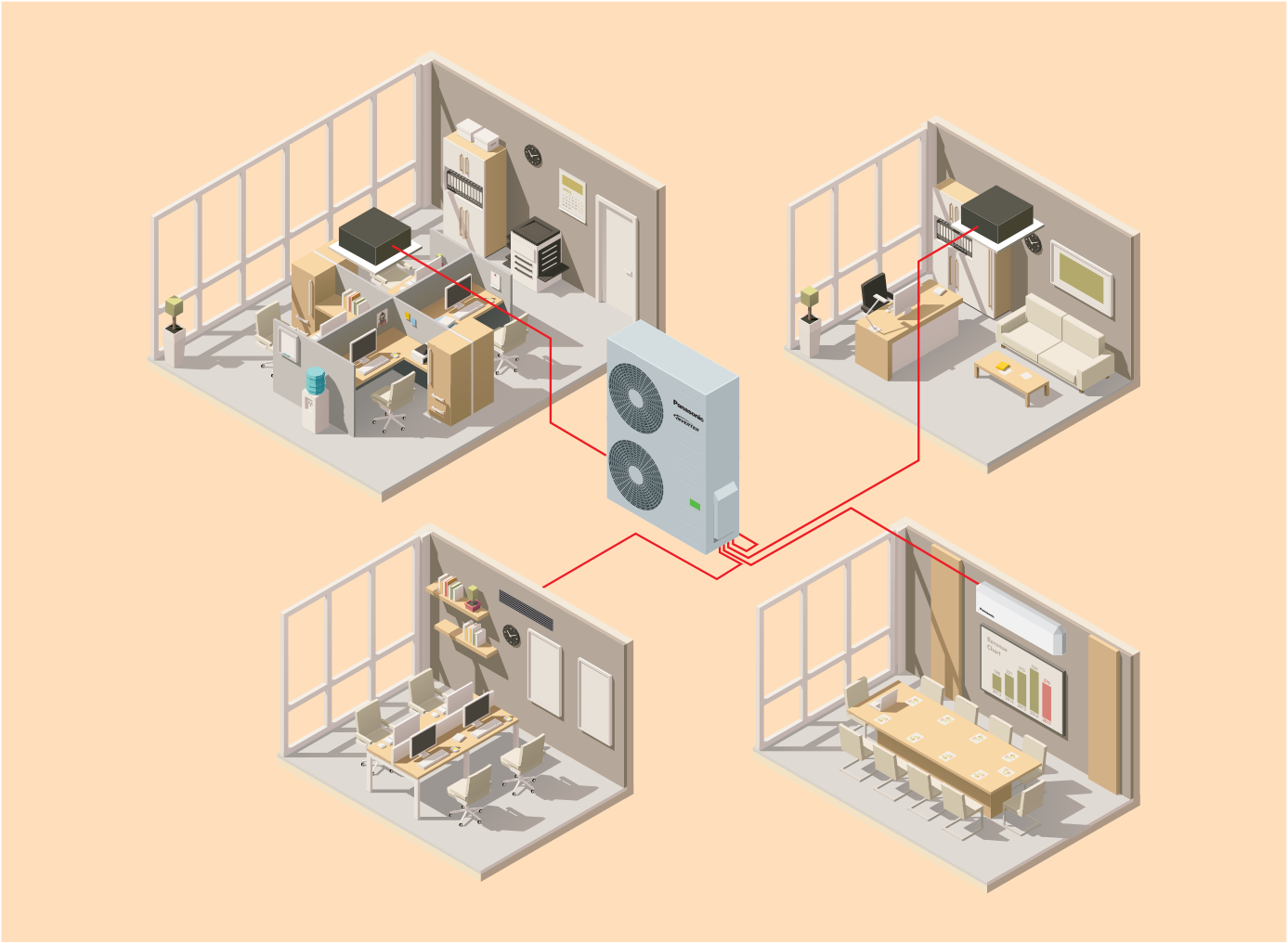
INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi SINGLE, TWIN, TRIPLE AND DOUBLE-TWIN SYSTEM



With this system, a single outdoor unit can split capacity for up to 4 indoor areas simultaneously. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A mix of indoor units can be installed (Wall, Cassette, Hide Away, Ceiling) in one system.



## 1 PACi Standard from 7,10 to 14,00kW

Up to 2 indoor units connectable on the same outdoor. Panasonic's PACi units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

## 2 PACi Elite from 7,10 to 14,00kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 71,00, 10,00, 12,50 and 14,00 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

## 3 Big PACi Elite from 20,00 to 25,00kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 20,00 and 25,00 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.


U-71PZH2E5
U-71PZH2E8


U-100PZH2E5
U-100PZH2E8
U-125PZH2E5
U-125PZH2E8
U-140PZH2E5
U-140PZH2E8


U-200PZH2E8
U-250PZH2E8

## PACi Elite Outdoor Units • R32 Gas [1]

| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|---|---|---|
| **Outdoor unit Single Phase** | | | **U-71PZH2E5** | **U-100PZH2E5** | **U-125PZH2E5** | **U-140PZH2E5** | — | — |
| **Outdoor unit Three Phase** | | | **U-71PZH2E8** | **U-100PZH2E8** | **U-125PZH2E8** | **U-140PZH2E8** | **U-200PZH2E8** [2] | **U-250PZH2E8** [2] |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,20 - 9,00) | 10,00 (3,10 - 12,50) | 12,50 (3,20 - 14,00) | 14,00 (3,30 - 16,00) | 20,00 (5,70 - 22,40) | 25,00 (6,10 - 28,00) |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (3,10 - 14,00) | 14,00 (3,20 - 16,00) | 16,00 (3,30 - 18,00) | 22,40 (5,00 - 25,00) | 28,00 (5,50 - 31,50) |
| Power source | Single Phase | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | — | — |
| | Three Phase | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Connection indoor / outdoor | | mm² | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | — | — |
| Air volume | Cool / Heat | m³/min | 61 / 60 | 118 / 108 | 125 / 122 | 129 / 116 | 164 / 164 | 160 / 160 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 54 | 59 / 61 | 59 / 63 |
| Sound power | Cool / Heat (Hi) | dB | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 | 77 / 79 | 78 / 82 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1500 x 980 x 370 | 1500 x 980 x 370 |
| Net weight | | kg | 68 | 99 | 99 | 99 | 117 | 128 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 1 (25,40) | 1 (25,40) |
| Pipe length range | Min ~ Max | m | 5 ~ 50 | 5 ~ 85 | 5 ~ 85 | 5 ~ 85 | 5 ~ 80 | 5 ~ 60 |
| Elevation difference (in/out) | Max | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 45 | 45 | 45 | 45 | 60 | 80 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,95 / 1,316 | 3,05 / 2,059 | 3,05 / 2,059 | 3,05 / 2,059 | 4,20 / 2,835 | 5,20 / 3,51 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) These models will be available in Winter 2018. 2) These models will be available in May 2019. Tentative data.


U-71PZ2E5


U-100PZ2E5
U-100PZ2E8
U-125PZ2E5
U-125PZ2E8
U-140PZ2E5
U-140PZ2E8

## PACi Standard Outdoor Units • R32 Gas

| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
|---|---|---|---|---|---|---|
| **Outdoor unit Single Phase** | | | **U-71PZ2E5** | **U-100PZ2E5** | **U-125PZ2E5** | **U-140PZ2E5** |
| **Outdoor unit Three Phase** | | | **—** | **U-100PZ2E8** | **U-125PZ2E8** | **U-140PZ2E8** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 | 10,00 (3,00 - 11,50) | 12,50 (3,20 - 13,50) | 14,00 (3,30 - 15,00) |
| Heating capacity | Nominal (Min - Max) | kW | 7,10 | 10,00 (3,00 - 14,00) | 12,50 (3,30 - 15,00) | 14,00 (3,40 - 16,00) |
| Power source | Single Phase | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| | Three Phase | V | — | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Connection indoor / outdoor | | mm² | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 |
| Air volume | Cool / Heat | m³/min | 50 / 45 | 76 / 70 | 86 / 78 | 89 / 83 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 49 / 49 | 52 / 52 | 55 / 55 | 56 / 56 |
| Sound power | Cool / Heat (Hi) | dB | 69 / 69 | 70 / 70 | 73 / 73 | 74 / 74 |
| Dimension | H x W x D | mm | 695 x 875 x 320 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 44 | 90 | 94 | 94 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | Min ~ Max | m | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) | Max | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 35 | 45 | 45 | 45 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 1,45 / 0,979 | 2,60 / 1,755 | 2,98 / 2,0115 | 2,98 / 2,0115 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |







| Wall | Indoor | Cooling capacity | Heating capacity | Dimension | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PK2E5B | 3,60 | 4,20 | 302 x 1120 x 236 | 35/31/27 | 11,00/9,50/7,50 |
| 4,50kW | S-45PK2E5B | 4,50 | 5,20 | 302 x 1120 x 236 | 38/34/30 | 12,00/10,50/8,50 |
| 5,00kW | S-50PK2E5B | 5,00 | 5,60 | 302 x 1120 x 236 | 40/36/32 | 14,00/12,00/10,50 |
| 6,00kW | S-60PK2E5B | 6,00 | 7,00 | 302 x 1120 x 236 | 47/44/40 | 18,00/14,50/11,50 |
| 7,10kW | S-71PK2E5B | 7,10 | 8,00 | 302 x 1120 x 236 | 47/44/40 | 18,00/14,50/11,50 |
| 10,00kW | S-100PK2E5B | 10,00 | 11,20 | 302 x 1120 x 236 | 47/44/40 | 19,00/16,50/13,00 |

| 4 Way 60x60 Cassette | Indoor (Panels CZ-KPY3AW / CZ-KPY3BW) | Cooling capacity | Heating capacity | Dimension: Indoor / CZ-KPY3AW / CZ-KPY3BW | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PY2E5B | 3,60 | 4,20 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 36/32/26 | 9,70/9,90 |
| 4,50kW | S-45PY2E5B | 4,50 | 5,20 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 38/34/28 | 10,00/10,30 |
| 5,00kW | S-50PY2E5B | 5,00 | 5,60 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 40/37/33 | 11,10/11,10 |

| 4 Way 90x90 Cassette | Indoor (Panels CZ-KPU3W / CZ-KPU3AW) | Cooling capacity | Heating capacity | Dimension Indoor | Dimension Panel | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | mm | dB(A) | m³/min |
| 3,60kW | S-36PU2E5B | 3,60 | 4,20 | 256 x 840 x 840 | 33,5 x 950 x 950 | 30/28/27 | 14,50/13,00/11,50 |
| 4,50kW | S-45PU2E5B | 4,50 | 5,20 | 256 x 840 x 840 | 33,5 x 950 x 950 | 31/28/27 | 15,50/13,00/11,50 |
| 5,00kW | S-50PU2E5B | 5,00 | 5,60 | 256 x 840 x 840 | 33,5 x 950 x 950 | 32/29/27 | 16,50/13,50/11,50 |
| 6,00kW | S-60PU2E5B | 6,00 | 7,00 | 256 x 840 x 840 | 33,5 x 950 x 950 | 38/31/28 | 21,00/16,00/13,00 |
| 7,10kW | S-71PU2E5B | 7,10 | 8,00 | 256 x 840 x 840 | 33,5 x 950 x 950 | 37/31/28 | 22,00/16,00/13,00 |
| 10,00kW | S-100PU2E5B | 10,00 | 11,20 | 319 x 840 x 840 | 33,5 x 950 x 950 | 45/38/32 | 36,00/26,00/18,00 |
| 12,50kW | S-125PU2E5B | 12,50 | 14,00 | 319 x 840 x 840 | 33,5 x 950 x 950 | 46/39/33 | 37,00/27,00/19,00 |
| 14,00kW | S-140PU2E5B | 14,00 | 14,00 | 319 x 840 x 840 | 33,5 x 950 x 950 | 47/40/34 | 38,00/29,00/20,00 |

| Ceiling | Indoor | Cooling capacity | Heating capacity | Dimension | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PT2E5B | 3,60 | 4,20 | 235 x 960 x 690 | 35/32/30 | 14,00/12,00/10,50 |
| 4,50kW | S-45PT2E5B | 4,50 | 5,20 | 235 x 960 x 690 | 38/33/30 | 15,00/12,50/10,50 |
| 5,00kW | S-50PT2E5B | 5,00 | 5,60 | 235 x 960 x 690 | 38/33/30 | 15,00/12,50/10,50 |
| 6,00kW | S-60PT2E5B | 6,00 | 7,00 | 235 x 1275 x 690 | 39/36/33 | 20,00/17,00/14,50 |
| 7,10kW | S-71PT2E5B | 7,10 | 8,00 | 235 x 1275 x 690 | 39/36/33 | 21,00/18,00/15,50 |
| 10,00kW | S-100PT2E5B | 10,00 | 11,20 | 235 x 1590 x 690 | 42/38/35 | 30,00/25,00/23,00 |
| 12,50kW | S-125PT2E5B | 12,50 | 14,00 | 235 x 1590 x 690 | 45/40/37 | 34,00/28,00/24,00 |
| 14,00kW | S-140PT2E5B | 14,00 | 14,00 | 235 x 1590 x 690 | 47/41/37 | 35,00/29,00/25,00 |

| High Static Pressure Hide Away | Indoor | Cooling capacity | Heating capacity | Dimension | External static pressure | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | Pa | dB(A) | m³/min |
| 3,60kW | S-36PF1E5B | 3,60 | 4,20 | 290 x 800 x 700 | 150/70/10 | 33/29/25 | 14,00/13,00/10,00 |
| 4,50kW | S-45PF1E5B | 4,50 | 5,20 | 290 x 800 x 700 | 150/70/10 | 34/30/26 | 14,00/13,00/10,00 |
| 5,00kW | S-50PF1E5B | 5,00 | 5,60 | 290 x 800 x 700 | 150/70/10 | 34/30/26 | 16,00/15,00/12,00 |
| 6,00kW | S-60PF1E5B | 6,00 | 7,00 | 290 x 1000 x 700 | 150/70/10 | 35/32/26 | 21,00/19,00/15,00 |
| 7,10kW | S-71PF1E5B | 7,10 | 8,00 | 290 x 1000 x 700 | 150/70/10 | 35/32/26 | 21,00/19,00/15,00 |
| 10,00kW | S-100PF1E5B | 10,00 | 11,20 | 290 x 1400 x 700 | 150/100/10 | 38/34/31 | 32,00/26,00/21,00 |
| 12,50kW | S-125PF1E5B | 12,50 | 14,00 | 290 x 1400 x 700 | 150/100/10 | 39/35/32 | 34,00/29,00/23,00 |
| 14,00kW | S-140PF1E5B | 14,00 | 14,00 | 290 x 1400 x 700 | 150/100/10 | 40/36/33 | 36,00/32,00/25,00 |

| Low Static Pressure Hide Away | Indoor | Cooling capacity | Heating capacity | Dimension | External static pressure | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | Pa | dB(A) | m³/min |
| 3,60kW | S-36PN1E5B | 3,60 | 4,20 | 250 x 780 x 650 | 80/50/10 | 40/38/35 | 14,00/12,00/10,00 |
| 4,50kW | S-45PN1E5B | 4,50 | 5,20 | 250 x 780 x 650 | 80/50/10 | 41/39/35 | 16,00/13,00/11,00 |
| 5,00kW | S-50PN1E5B | 5,00 | 5,60 | 250 x 780 x 650 | 80/50/10 | 41/39/35 | 16,00/13,00/11,00 |
| 6,00kW | S-60PN1E5B | 6,00 | 7,00 | 250 x 1000 x 650 | 80/50/10 | 43/41/36 | 22,00/20,00/16,00 |
| 7,10kW | S-71PN1E5B | 7,10 | 8,00 | 250 x 1000 x 650 | 80/50/10 | 43/41/36 | 22,00/20,00/16,00 |
| 10,00kW | S-100PN1E5B | 10,00 | 11,20 | 250 x 1200 x 650 | 80/50/10 | 44/42/37 | 36,00/33,00/26,00 |
| 12,50kW | S-125PN1E5B | 12,50 | 14,00 | 250 x 1200 x 650 | 80/50/10 | 46/44/39 | 38,00/35,00/28,00 |
| 14,00kW | S-140PN1E5B | 14,00 | 14,00 | 250 x 1200 x 650 | 80/50/10 | 46/44/39 | 40,00/37,00/30,00 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

## PACi Standard from 7,10 to 14,00kW Single/Simultaneous operation system combinations • R32 GAS and • R410A GAS

| | Outdoor | | | |
|---|---|---|---|---|
| **Indoor** | **7,10kW** | **10,00kW** | **12,50kW** | **14,00kW** |
| **3,60kW** | Twin [1] U-71 S-36 S-36 | | | |
| **5,00kW** | | Twin U-100 S-50 S-50 | | |
| **6,00kW** | | | Twin U-125 S-60 S-60 | |
| **7,10kW** | Single [2] U-71 S-71 | | | Twin U-140 S-71 S-71 |
| **10,00kW** | | Single [2] U-100 S-100 | | |
| **12,50kW** | | | Single [2] U-125 S-125 | |
| **14,00kW** | | | | Single [2] U-140 S-140 |

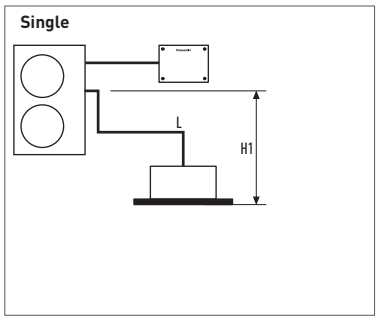
## PACi Elite from 7,10 to 14,00kW Single/Simultaneous operation system combinations • R32 GAS and • R410A GAS

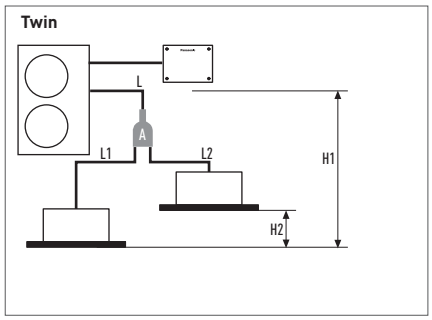
| | Outdoor | | | |
|---|---|---|---|---|
| **Indoor** | **7,10kW** | **10,00kW** | **12,50kW** | **14,00kW** |
| **3,60kW** | Twin U-71 S-36 S-36 | Triple U-100 S-36 S-36 S-36 | Double-Twin U-125 S-36 S-36 S-36 S-36 | |
| **4,50kW** | | | Triple U-125 S-45 S-45 S-45 | |
| **5,00kW** | | Twin U-100 S-50 S-50 | | Triple U-140 S-50 S-50 S-50 |
| **6,00kW** | | | Twin U-125 S-60 S-60 | |
| **7,10kW** | Single [2] U-71 S-71 | | | Twin U-140 S-71 S-71 |
| **10,00kW** | | Single [2] U-100 S-100 | | |
| **12,50kW** | | | Single [2] U-125 S-125 | |
| **14,00kW** | | | | Single [2] U-140 S-140 |

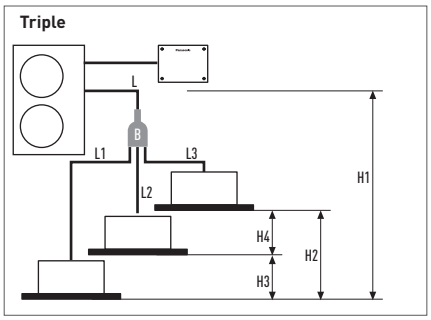
## PACi Elite from 20,00 to 25,00kW Single/Simultaneous operation system combinations • R32 GAS and • R410A GAS

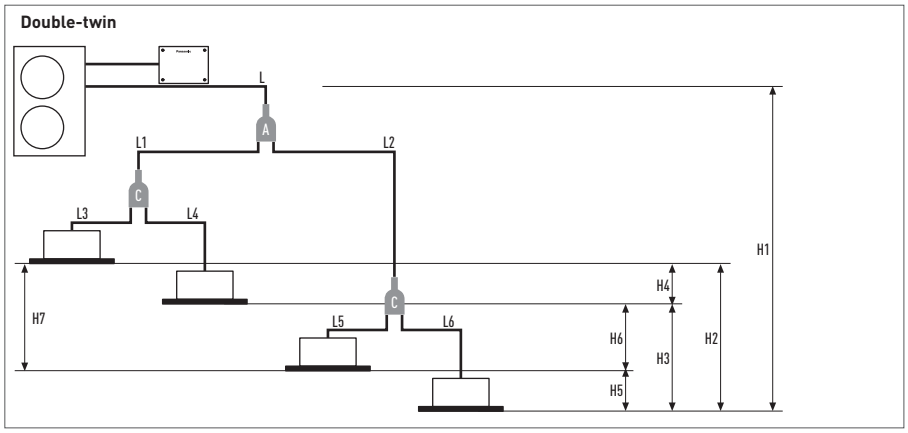
| | Outdoor | |
|---|---|---|
| **Indoor** | **20,00kW** | **25,00kW** |
| **5,00kW** | Double-Twin U-200 S-50 S-50 S-50 S-50 | |
| **6,00kW** | | Double-Twin U-250 S-60 S-60 S-60 S-60 |
| **7,10kW** | Triple U-200 S-71 S-71 S-71 | |
| **10,00kW** | Twin U-200 S-100 S-100 | |
| **12,50kW** | | Twin U-250 S-125 S-125 |
| **20,00kW** | Single [2] U-200 S-200 | |
| **25,00kW** | | Single [2] U-250 S-250 |

1) Available for only PZ (R32) model with limitations of main pipe and branch pipe. Please contact an authorized Panasonic dealer. 2) PACi 1x1 Kit solution.




**PACi Standard Twin System from 7,10 to 14,00kW**
Joint distribution (sold separately)
A= CZ-P224BK2BM

**PACi Elite Twin, Triple and Double-Twin System from 7,10 to 14,00kW**
Joint distribution (sold separately)
A= CZ-P224BK2BM
B= CZ-P3HPC2BM
C= CZ-P224BK2BM

**PACi Elite Twin, Triple and Double-Twin System from 20,0 to 25,00kW**
Joint distribution (sold separately)
A = CZ-P680BK2BM
B = CZ-P3HPC2BM
C = CZ-P224BK2BM

| Twin System | PACi Standard Single and Twin System from 7,10 to 14,00kW | | | PACi Elite Twin, Triple and Double-Twin System from 7,10 to 25kW | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Indoor unit combinations (see examples above) | | Equivalent lengths and height differences (m) for outdoor unit sizes... | Indoor unit combinations (see examples above) | | | | Equivalent lengths and height differences (m) for outdoor unit sizes from 7,10 to 14,00kW | Equivalent lengths and height differences (m) for outdoor unit sizes from 20,00 to 25,00kW |
| | Single | Twin | | Single | Twin | Triple | Double-Twin | | |
| Total pipe length | L | L + L1 + L2 | ≤ 50m | L | L + L1 + L2 | L + L1 + L2 + L3 | L + L1 + L2 + L3 + L4 + L5 + L6 | U-60/U-71: ≤ 50m<br>U-100/125/140: ≤ 75m | U-200: ≤ 100m<br>U-250: ≤ 80m |
| Maximum pipe length from outdoor unit to most distant indoor unit | – | – | – | – | L + L1 or L + L2 | L + L1 or L + L2 or L + L3 | L + L1 + L3 or L + L1 + L4 or L + L2 + L5 or L + L2 + L6 | – | U-200: 90m<br>U-250: 60m |
| Maximum branch pipe length | – | L1 L2 | ≤ 15 | – | L1 or L2 | L1 or L2 or L3 | L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6 | ≤ 15m | ≤ 20m |
| Maximum branch pipe length differences | – | L1 > L2<br>L1 - L2 | ≤ 10 | – | L1 > L2:<br>L1 - L2 | L1 > L2 > L3: L1 - L2<br>L2 - L3<br>L1 - L3 | L2 + L6 (Max.)<br>L1 + L3 (Min.):<br>(L2 + L6) - (L1 + L3) | ≤ 10m | ≤ 10m |
| Maximum pipe length differences after first branch (Double-Twin) | – | – | – | – | – | – | L2 > L1: L2 - L1 | ≤ 10m | ≤ 10m |
| Maximum pipe length differences after second branch (Double-Twin) | – | – | – | – | – | – | L4 > L3: L4 - L3<br>L6 > L5: L6 - L5 | ≤ 10m | ≤ 10m |
| Height difference (outdoor unit located higher) | H1 | H1 | ≤ 30 | H1 | H1 | H1 | H1 | ≤ 30m | ≤ 30m |
| Height difference (outdoor unit located lower) | H1 | H1 | ≤ 15 | H1 | H1 | H1 | H1 | ≤ 15m | ≤ 15m |
| Height difference between indoor units | – | H2 | ≤ 0,5 | – | H2 | H2 or H3 or H4 | H2 or H3 or H4 or H5 or H6 | ≤ 0,5m | ≤ 0,5m |

| Twin System | PACi Standard Single and Twin System from 7,10 to 14,00kW | | | | PACi Elite Twin, Triple and Double-Twin System from 7,10 to 14,00kW | | | | | | PACi Elite Twin, Triple and Double-Twin System from 20,00 to 25,00kW | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit main pipe diameter (L) | | Indoor unit connection tube (L1, L2) | | Outdoor unit main pipe diameter (L) | Indoor unit connection pipe diameter (L1, L2, L3, L4) (mm) | | | | | Outdoor unit main pipe diameter (L) (mm) | | Double-Twin distribution pipe (L1, L2) [1] | Indoor unit connection pipe diameter [2] | |
| Unit type capacity | 100 | 125 | 50 | 60 | 71 - 140 | 36 | 45 | 50 | 60 | 71 | 200 | 250 | 100 - 125 | 50 | 60 - 125 |
| Liquid pipe (mm) | Ø 9,52 | Ø 12,70 | Ø 6,35 | Ø 9,52 | Ø 9,52 | Ø 6,35 | Ø 6,35 | Ø 6,35 | Ø 9,52 | Ø 9,52 | Ø 9,52 | Ø 12,70 | Ø 9,52 | Ø 6,35 | Ø 9,52 |
| Gas pipe (mm) | Ø 15,88 | Ø 15,88 | Ø 12,70 | Ø 15,88 | Ø 15,88 | Ø 12,70 | Ø 12,70 | Ø 12,70 | Ø 15,88 | Ø 15,88 | Ø 25,40 | Ø 25,40 | Ø 15,88 | Ø 12,70 | Ø 15,88 |
| Additional gas amount (g/m) | 50 | 50 | 20 | 50 | 50 | 20 | 20 | 20 | 50 | 50 | 60 | 80 | 45 | 20 | 45 |

1) Total capacity of indoor unit connected after the branch. 2) 4 Way Cassette type.

Make additional charges by adding up tube length in an order of main tube (L) → branch tube (L1 → L2 → L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after charge-less tube length : 30m) liquid tube diameter and tube length from the above table.

# NEW PRO-HT TANK SERIES FOR PACi AND ECOi

**MAXIMUM**
**75°C**
**WATER OUTLET TEMPERATURE**



Enjoy an efficient DHW / heating and cooling tank. Panasonic commercial PRO-HT Tank solutions meet all needs of your hot water applications providing maximum water temperature 75°C.

# PRO-HT TANK

## PRO-HT Tank DHW: PAW-VP1000/500/200LDHW. Big volume and high temperature tank for commercial application

### 1 High performance and high saving

- Maximum A7 COP 5,36 for 200L tank
- System label maximum A+++ (scale from A+++ to G)
- High temperature hot water without booster

### 2 Hot water production with simultaneous heating and cooling

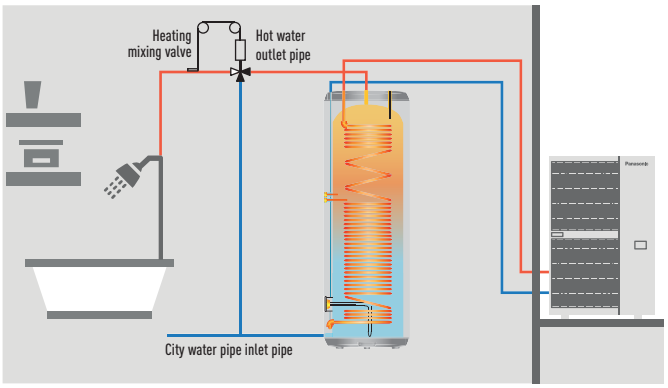
- Maximum water outlet temperature up to 75°C
- Big volume tank from 200L to 1000L capacity
- Heat exchanger design prevents limescale

### 3 Trusted quality

- Double tube heat exchanger following drinking-water regulation
- Tank and heat exchanger made with stainless steel
- Internal and external pickling

### Solution example DHW tank 1000L + PACi

- Ideal for small hotels and high-end residential
- Hot water temperature up to 75°C
- Up to A7 COP 5,36




## PRO-HT Tank heating and cooling: PAW-VP380L. Waterborne heating and cooling for floor heating, radiators or fan coils

### 1 High performance and high saving

- A7 COP 3,28, heating water temperature at 45°C
- Maximum 60°C water outlet temperature
- Energy efficiency class : A++ (scale from A++ to G)

### 2 Simple waterborne heating and cooling solution

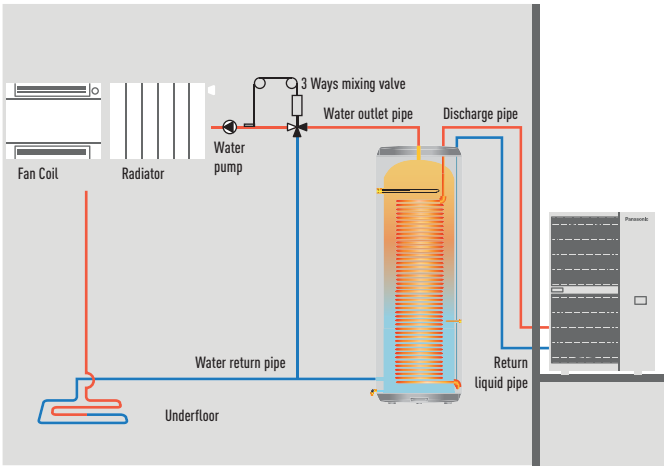
- High temperature water without any boosters
- Installation cost can be saved without additional boosters and buffer tanks

### 3 Trusted quality

- Double tube heat exchanger following drinking-water regulation
- Tank and heat exchanger made with stainless steel
- Internal and external pickling

### Heating and cooling tank 380L + PACi 20,00kW

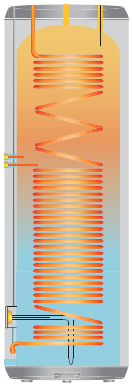
- Ideal offer for small offices
- Cost saving solution with simple waterborne heating and cooling
- Hot water up to 60°C




### One by one system compatible list with PACi Elite

| Model | Tank type | Product compatibility | Hot water outlet temperature |
|---|---|---|---|
| **PAW-VP1000LDHW** | DHW | U-250PZH2E8 | 75°C |
| **PAW-VP500LDHW** | DHW | U-100PZH2E5/8 | 75°C |
| **PAW-VP200LDHW** | DHW | U-100PZH2E5/8 | 75°C |
| **PAW-VP380L** | Heating and cooling | U-200PZH2E8 | 60°C |

# New PRO-HT Tank DHW



NEW 2019

## High temperature hot water is efficiently produced without any boosters

Panasonic commercial PRO-HT Tank solutions can be adapted to adapt various projects from high-end residential to offices and hotels.

## Technical focus

- Water volume 200L, 500L and 1000 L
- Maximum hot water production 75°C without boosters
- Tank and heat exchanger made with stainless steel
- Heating coil 23m (200L), 35m (500L) and 63m (1000L)
- Internal and external pickling
- Foam insulation 70mm (200 and 500L) and 100mm (1000L)
- Tank material 2mm (200L) and 3mm (500 and 1000L)
- ABS external

| **PRO-HT Tank** | | | **PAW-VP200LDHW** | **PAW-VP500LDHW** | **PAW-VP1000LDHW** |
|---|---|---|---|---|---|
| **Outdoor Unit** | | | **U-100PZH2E5** | **U-100PZH2E5** | **U-250PZH2E8 **** |
| Volume | | L | 214 | 510 | 933 |
| Height | H x W | mm | 1568 x 590 | 1660 x 790 | 2210 x 990 |
| Connections to the water supply network | | | 3/4" - 1" | 3/4" - 1" | 1 1/4" |
| Net weight / with water | | kg | 73 / 286 | 122 / 632 | 235 / 1167 |
| Nominal electrical power | | W | 2320 | 2320 | 6320 |
| Reference tapping cycle | | | M | XL | 2XL |
| Energy consumption by chosen cycle A7 / W10-55 | | kWh | 1,09 | 4,50 | 6,30 |
| Energy consumption by chosen cycle A15 / W10-55 | | kWh | 0,91 | 3,60 | 5,40 |
| COP DHW (A7 / W10-55) EN 16147 [1] | | | 5,36 | 4,23 | 3,91 |
| COP DHW (A15 / W10-55) EN 16147 [2] | | | 6,42 | 5,29 | 4,54 |
| **Energy Efficiency Class (from A+ to G)** [3] | | | **A+** | **A+** | **A+** |
| **System label (from A+++ to G)** [3] | | | **A+++** | **A++** | **A++** |
| Standby Input power according to EN16147 | | W | 25,10 | 40,10 | 80,00 |
| Sound Pressure on 1m | | dB(A) | 53 | 63 | 57 |
| Quantity of refrigerant | | g | 2,6 + 0,2 | 2,6 + 0,6 | 6,4 + 1,0 |
| Operating range - air temperature | | °C | -20 ~ +35 | -20 ~ +35 | -20 ~ +35 |
| Stainless steel 316L tank | | | Yes | Yes | Yes |
| Average insulation thickness | | mm | 70 | 70 | 100 |
| Heat exchanger connection for inlet / outlet | | Inch (mm) | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) | 1/2 (12,70) / 3/4 (19,05) |
| Maximum power consumption without heater | | W | 3990 | 3990 | 9000 |
| Maximum power consumption with heater | | W | 5990 | 6990 | 15000 |
| Number of electrical heaters x power | | W | 1 x 2000 | 1 x 3000 | 1 x 6000 |
| Voltage / Frequency | | V / Hz | 230 / 50 | 230 / 50 | 400 / 50 |
| Electric protection | | A | 16 | 16 | 16 |
| Moisture protection | | | IP 24 | IP 24 | IP 24 |
| Heating with heat pump | Min / Max | °C | 5 / 76 | 5 / 76 | 5 / 76 |
| Heating with electrical heater | Min / Max | °C | 55 / 75 | 55 / 75 | 55 / 75 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | 2,8 / 1,890 | 3,2 / 2,160 | 7,4 / 4,995 |

| **Accessories** | |
|---|---|
| **PAW-VP-RTC5B-PAC** | Tank controller for PACi system |

1) Heating of sanitary water up to 55°C with inlet air temperature at 7°C, humidity at 89% and inlet water temperature at 10°C. According to EN16147. 2) Heating of sanitary water up to 55°C with inlet air temperature at 15°C, humidity at 74% and inlet water temperature at 10°C. According to EN16147. 3) Following LOT 2 (COMMISSION DELEGATED REGULATION (EU) No. 812/2013).

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* When connected as pressurised, safety valve is mandatory.
** Tentative data.
*** R410A models are also compatibles.

# New PRO-HT Tank heating and cooling




## High temperature hot water is efficiently produced without any boosters

Panasonic commercial PRO-HT Tank solutions can be combined with PACi to adapt various projects from high-end residentials to offices and hotels.

## Technical focus

- Water volume 380L
- Maximum hot water production 65°C
- Tank and heat exchanger made with stainless steel
- Heating coil 52m 316L
- Internal and external pickling
- Foam insulation 70mm
- Tank material 2mm 316L
- ABS external

| **PRO-HT Tank** | | | **PAW-VP380L** |
|---|---|---|---|
| Cooling capacity at 35°C, water outlet 7°C | | kW | 12,80 |
| Heating capacity at +7°C, heating water temperature at 35°C | | kW | 25,00 |
| Heating capacity at +7°C, heating water temperature at 45°C | | kW | 23,00 |
| COP at +7°C with heating water temperature at 45°C | | W/W | 3,28 |
| **Heating Energy Efficiency class at 35°C** [1) 2)] | | | **A++** |
| **ηs (LOT1)** [2)] | | **%** | **156** |
| Dimension | H x W | mm | 1820 x 690 |
| Shipping weight | | kg | 99 |
| Water pipe connector | | | 1 1/4" |
| Heating water flow at 35°C | | $m^3/h$ | 3,9 |
| Input power | | kW | TBC |
| Maximum current | | A | TBC |
| **Outdoor Unit** | | | **U-200PZH2E8** |
| Sound pressure | | dB(A) | 62 |
| Dimension | H x W x D | mm | 1500 x 980 x 370 |
| Net weight | | kg | 119 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 3/4 (19,05) |
| Refrigerant (R32) / $CO_2$ Eq. | | kg | 5,60 *Need Additional gas amount at site +1,5kg |
| Pipe length range | | m | 50 |
| Elevation difference (in/out) | | m | 30 (OD above) 30 (OD below) |
| Pipe length for nominal capacity | | m | 7,5 |
| Pipe length for additional gas | | m | 85 |
| Additional gas amount | | g/m | Refer to manual |
| Operation range | Heat Min ~ Max | °C | -20 ~ +35 |

| **Accessories** | |
|---|---|
| **PAW-VP-RTC5B-PAC** | Tank controller for PACi system |

| **Accessories** | |
|---|---|
| **PAW-IU29/39** | Additional heater |

1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Seasonal space heating energy efficiency following COMMISSION REGULATION (EU) 811/2013.
This product is designed to meet European water quality standard 98/93 EC. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.
Performance calculation in agreement with Eurovent. Sound pressure measured at 1m from the outdoor unit and at 1,5m height.
* Flow switch and water filter are not equipped.

# NEW WHE FOR PACi



# New PACi with Water Heat Exchanger for chilled and hot water production




NEW 2019

## Industry first PACi Water Heat Exchanger

Panasonic introduces high-efficiency Water Heat Exchanger for packaged air conditioning systems.
This ground-breaking product gives further possibilities of PACi solutions by adding hydronic options.

## Short-term investment

PACi Water Heat Exchanger is ideal for small offices and retails.
The investment costs can be amortised within a very short period.
This solution allows investors and operators to save money.

## Professional solution

New Water Heat Exchanger is compatible with R32 PACi.
Many air conditioning manufacturers selling R32 systems and it is becoming the standard refrigerant for split type air conditioning systems because R32 has a much lower global warming potential than R410A and can also provide higher efficiency.

### Tentative data

| **Water Heat Exchanger** | | | **PAW-200W5APAC** | **PAW-250W5APAC** |
|---|---|---|---|---|
| Cooling capacity at 35°C, water outlet 7°C Rated | | kW | 20,00 | 25,00 |
| Heating capacity at +7°C, heating water temperature at 45°C | | kW | 20,00 | 25,00 |
| COP at +7°C with heating water temperature at 45°C | | W/W | 3,50 | 3,40 |
| Heating water flow (ΔT=5 K. 35°C) | | $m^3/h$ | 4,0 | 4,3 |
| Flow switch | | | Optional | Optional |
| Water filter | | | Optional | Optional |
| Dimension | H x W x D | mm | 623 x 450 x 350 | 623 x 450 x 350 |
| **Outdoor Unit** | | | **U-200PZH2E8** | **U-250PZH2E8** |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 60 / 62 | 61 / 63 |
| Dimension | H x W x D | mm | 1500 x 980 x 370 | 1500 x 980 x 370 |
| Net weight | | kg | 119 | 130 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 1/2 (12,70) |
| | Gas pipe | Inch (mm) | 1 (25,40) | 1 (25,40) |
| Pipe length range | | m | 5 ~ 90 | 5 ~ 60 |
| Elevation difference (in/out) | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 60 | 80 |
| Refrigerant (R32) / $CO_2$ Eq. | | kg / T | — | — |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

5 YEARS COMPRESSOR WARRANTY

# RANGE OF COMMERCIAL UNITS R410A

| Page | Indoor units | 2,50kW | 3,50 ~ 3,60kW | 4,50kW | 5,00kW | 6,00kW |
|---|---|---|---|---|---|---|
| P. 228 | Wall Mounted Professional Inverter -20°C • **R410A Gas** |  CS-E9PKEA |  CS-E12PKEA |  CS-E15PKEA |  CS-E18PKEA | |
| P. 230 | Wall Inverter+ • **R410A Gas** | |  S-36PK2E5B |  S-45PK2E5B |  S-50PK2E5B |  S-60PK2E5B |
| P. 128 | 4-Way 60x60 Cassette Standard Inverter • **R410A Gas** |  CS-E9PB4EA |  CS-E12PB4EA | |  CS-E18RB4EAW |  CS-E21RB4EAW |
| P. 234 | 4 Way 60x60 Cassette Inverter+ • **R410A Gas** | |  S-36PY2E5B |  S-45PY2E5B [1] |  S-50PY2E5B | |
| P. 236 | 4 Way 90x90 Cassette Inverter+ • **R410A Gas** | |  S-36PU2E5B |  S-45PU2E5B |  S-50PU2E5B |  S-60PU2E5B |
| P. 240 | Ceiling Inverter+ • **R410A Gas** | |  S-36PT2E5B |  S-45PT2E5B |  S-50PT2E5B |  S-60PT2E5B |
| P. 129 | Low Static Pressure Hide Away Standard Inverter • **R410A Gas** |  CS-E9PD3EA |  CS-E12-QD3EAW | |  CS-E18RD3EAW | |
| P. 244 | High Static Pressure Hide Away Inverter+ • **R410A Gas** | |  S-36PF1E5B |  S-45PF1E5B |  S-50PF1E5B |  S-60PF1E5B |
| P. 248 | Low Static Pressure Hide Away Inverter+ • **R410A Gas** | |  S-36PN1E5B |  S-45PN1E5B |  S-50PN1E5B |  S-60PN1E5B |
| P. 252 | **NEW** High Static Pressure Hide Away 20-25kW Inverter+ • **R410A Gas** | | | | | |

| Outdoor units | 3,60kW | 5,00kW | 6,00kW |
|---|---|---|---|
| PACi Elite • **R410A Gas** |  U-36PE2E5A |  U-50PE2E5A |  U-60PE2E5A |
| PACi Standard • **R410A Gas** | | |  U-60PEY2E5 |

1) The 4,50kW indoor unit are only available only for Twin, Triple and Double-Twin combinations. 2) These models will be available in May 2019. * U-__E5 Single Phase / U-__E8 Three Phase.

| 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|
|  S-71PK2E5B |  S-100PK2E5B (9,00kW) | | | | |
|  S-71PU2E5B |  S-100PU2E5B |  S-125PU2E5B |  S-140PU2E5B | | |
|  S-71PT2E5B |  S-100PT2E5B |  S-125PT2E5B |  S-140PT2E5B | | |
|  S-71PF1E5B |  S-100PF1E5B |  S-125PF1E5B |  S-140PF1E5B | | |
|  S-71PN1E5B |  S-100PN1E5B |  S-125PN1E5B |  S-140PN1E5B | | |
| | | | |  S-200PE3E5B [2] |  S-250PE3E5B [2] |

| 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|
|  U-71PE1E5A / U-71PE1E8A |  U-100PE1E5A / U-100PE1E8A |  U-125PE1E5A / U-125PE1E8A |  U-140PE1E5A / U-140PE1E8A |  U-200PE2E8A |  U-250PE2E8A |
|  U-71PEY2E5 |  U-100PEY1E5 / U-100PEY1E8 |  U-125PEY1E5 / U-125PEY1E8 |  U-140PEY1E8 | | |

# HIGH EFFICIENCY EVEN AT -20°C

This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low.






## High durability for 24/7 operation

**Indoor Fan. Cross-Flow-Fan.**

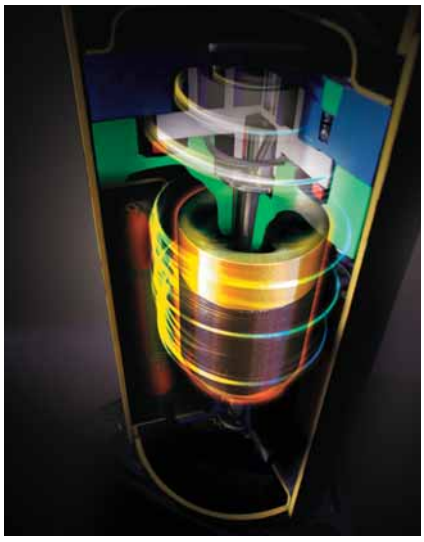
- High durability rolling bearings, large size (φ105mm) fan
- High efficiency blade
- Random pitch blade (low sound)

**Compressor.**

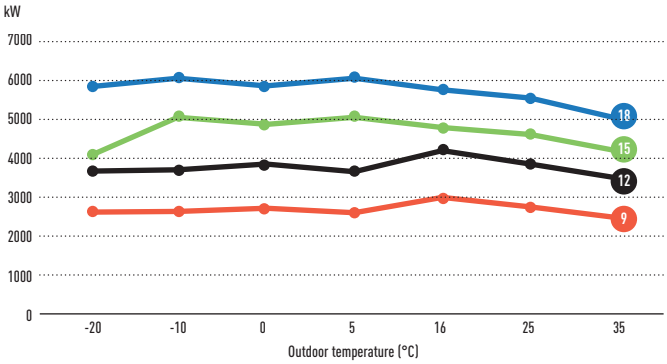
DC2P Panasonic original compressor, with high efficiency and reliability.

**Why is the Panasonic R2 Rotary Compressor so efficient?**

- High efficiency motor: the premium silicon steel motor meets industry efficiency requirements
- Improved lubrication of high volume oil pump: the extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication
- Accumulator has larger refrigerant capacity: the larger accumulator accommodates generous refrigerant amounts needed in longer line length installations

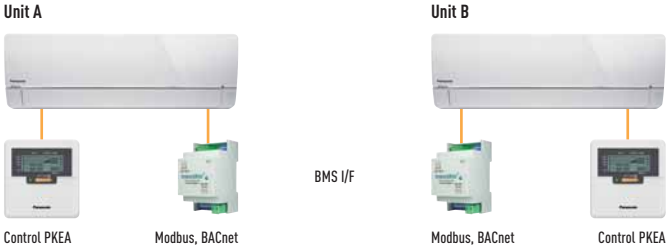


## PKEA provides high capacity at -20°C!




## Server room logic BMS interface

For full BMS integration with biderectional communication, Panasonic offer different interfaces for integrate to Modbus and Bacnet. This devices are also compatible with Standard DIN Rail.



# Wall Mounted Professional Inverter -20°C
## • R410A GAS

This air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.





### Technical focus

- These units can be installed on R22 pipings
- Designed for 24h/7d a week operation
- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing

### Outdoor Features

- Cooling even when ambient temperature is as low as -20°C
- Electronic expansion valve (accurate sub-cooling and adjustable refrigerant flow)
- Outdoor DC fan motor to provide flexible air-flow to ensure optimum condensation pressure (works on outdoor pipe temperature sensor)

| KIT | | | KIT-E9-PKEA | KIT-E12-PKEA | KIT-E15-PKEA | KIT-E18-PKEA |
|---|---|---|---|---|---|---|
| Cooling capacity | Nominal (Min - Max) | kW | 2,50 (0,85 - 3,00) | 3,50 (0,85 - 4,00) | 4,20 (0,98 - 5,00) | 5,00 (0,98 - 6,00) |
| EER [1] | Nominal (Min - Max) | W/W | 4,85 (4,23 - 5,00) | 4,02 (3,57 - 5,00) | 3,50 (3,50 - 3,16) | 3,47 (3,50 - 3,02) |
| Cooling capacity at -10°C | | kW | 2,63 | 3,69 | 5,04 | 6,00 |
| EER at -10°C | | W/W | 7,19 | 5,96 | 6,01 | 6,00 |
| Cooling capacity at -20°C | | kW | 2,61 | 3,66 | 4,06 | 5,82 |
| EER at -20°C | | W/W | 6,71 | 5,56 | 4,39 | 5,39 |
| **SEER [2]** | | | **7,10 A++** | **6,70 A++** | **6,30 A++** | **6,90 A++** |
| Pdesign | | kW | 2,50 | 3,50 | 4,20 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,52 (0,17 - 0,71) | 0,87 (0,17 - 1,12) | 1,20 (0,28 - 1,58) | 1,44 (0,28 - 1,99) |
| Annual energy consumption [3] | | kWh/a | 123 | 183 | 233 | 254 |
| Heating capacity | Nominal (Min - Max) | kW | 3,40 (0,85 - 5,40) | 4,00 (0,85 - 6,60) | 5,40 (0,98 - 7,10) | 5,80 (0,98 - 8,00) |
| Heating capacity at -7°C [4] | | kW | 3,33 | 4,07 | 4,10 | 4,98 |
| COP [1] | Nominal (Min - Max) | W/W | 4,86 (4,12 - 5,15) | 4,35 (3,63 - 5,15) | 3,75 (2,88 - 3,24) | 3,82 (2,88 - 3,11) |
| **SCOP [5]** | | | **4,40 A+** | **4,10 A+** | **3,90 A** | **4,20 A+** |
| Pdesign at -10°C | | kW | 2,80 | 3,60 | 3,60 | 4,40 |
| Input power heating | Nominal (Min - Max) | kW | 0,70 (0,17 - 1,31) | 0,92 (0,17 - 1,82) | 1,44 (0,34 - 2,19) | 1,52 (0,34 - 2,57) |
| Annual energy consumption [3] | | kWh/a | 891 | 1229 | 1292 | 1467 |
| **Indoor unit** | | | **CS-E9PKEA** | **CS-E12PKEA** | **CS-E15PKEA** | **CS-E18PKEA** |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Air Volume | Cool / Heat | m³/min | 13,30 / 14,60 | 13,60 / 14,70 | 14,10 / 15,00 | 17,90 / 19,30 |
| Moisture removal volume | | L/h | 1,5 | 2,0 | 2,4 | 2,8 |
| Sound pressure [6] | Cool — Heat (Hi / Lo / Q-Lo) | dB(A) | 39 / 26 / 23 — 40 / 27 / 24 | 42 / 29 / 26 — 42 / 33 / 29 | 43 / 32 / 29 — 43 / 35 / 29 | 44 / 37 / 34 — 44 / 37 / 34 |
| Dimension / Net weight | H x W x D | mm / kg | 295 x 870 x 255 / 10 | 295 x 870 x 255 / 10 | 295 x 870 x 255 / 10 | 295 x 1070 x 255 / 13 |
| **Outdoor unit** | | | **CU-E9PKEA** | **CU-E12PKEA** | **CU-E15PKEA** | **CU-E18PKEA** |
| Sound pressure [6] | Cool / Heat (Hi) | dB(A) | 46 / 47 | 48 / 50 | 46 / 46 | 47 / 47 |
| Dimension [7] / Net weight | H x W x D | mm / kg | 622 x 824 x 299 / 36 | 622 x 824 x 299 / 36 | 695 x 875 x 320 / 45 | 695 x 875 x 320 / 46 |
| Piping connections | Liquid pipe / Gas pipe | Inch (mm) | 1/4 (6,35) / 3/8 (9,52) | 1/4 (6,35) / 3/8 (9,52) | 1/4 (6,35) / 1/2 (12,70) | 1/4 (6,35) / 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 15 | 3 ~ 15 | 3 ~ 15 | 3 ~ 20 |
| Elevation difference (in/out) [8] | | m | 5 | 5 | 15 | 15 |
| Pipe length for additional gas | | m | 7,5 | 7,5 | 7,5 | 7,5 |
| Additional gas amount | | g/m | 20 | 20 | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | — | — | — | — |
| Operating range | Cool / Heat Min ~ Max | °C | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 | -20 ~ +43 / -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-TACG1** | Panasonic Comfort Cloud for internet control |
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PAW-SERVER-PKEA** | PCB for installation in server rooms with security |
| **Accessories** | |

| | |
|---|---|
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform |

Rating Conditions for cooling capacity at low temperature: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 0°C DB / -10°C WB.
1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Energy Label Scale from A+++ to D. SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The sound pressure of the indoor unit shows the value measured of a position 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) Add 70mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.




SEER and SCOP: For KIT-E9-PKEA. SUPER QUIET: For KIT-E9-PKEA. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Wall Mounted Inverter+
## • R410A GAS

The wall mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.

The compact design and flat face ensure discreet installation, even in a small space.

**High heating capacity at -7°C.**







**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | |
|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW |
| **KIT** | | | **KIT-36PK2E5D** | **KIT-50PK2E5D** | **KIT-60PK2E5D** | **KIT-71PK2E5D** | **KIT-100PK2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,10 (2,00 - 7,10) | 7,10 (2,50 - 8,00) | 9,50 (3,30 - 10,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,56 (6,25 - 4,30) | 3,57 (6,25 - 3,26) | 3,53 (6,67 - 3,02) | 3,40 (5,56 - 3,02) | 3,25 (3,93 - 3,09) |
| **SEER [2]** | | | **6,40 A++** | **6,20 A++** | **6,40 A++** | **6,70 A++** | **6,30 A++** |
| Pdesign | | kW | 3,60 | 5,00 | 6,10 | 7,10 | 9,50 |
| Input power cooling | Nominal (Min - Max) | kW | 0,79 (0,24 - 0,93) | 1,40 (0,24 - 1,72) | 1,68 (0,30 - 2,35) | 2,09 (0,45 - 2,65) | 2,92 (0,84 - 3,40) |
| Annual energy consumption [3] | | kWh/a | 197 | 282 | 319 | 371 | 528 |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 9,50 (4,10 - 11,50) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,71 (7,89 - 4,20) | 3,94 (7,89 - 3,39) | 4,22 (9,00 - 3,90) | 4,00 (5,00 - 3,10) | 3,97 (4,56 - 3,43) |
| **SCOP [2]** | | | **4,30 A+** | **4,10 A+** | **4,20 A+** | **4,10 A+** | **3,80 A** |
| Pdesign at -10°C | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 9,50 |
| Input power heating | Nominal (Min - Max) | kW | 0,85 (0,19 - 1,19) | 1,42 (0,19 - 1,92) | 1,66 (0,20 - 2,05) | 2,00 (0,40 - 2,90) | 2,92 (0,84 - 3,40) |
| Annual energy consumption [3] | | kWh/a | 1172 | 1707 | 2000 | 2424 | 3325 |
| **Indoor unit** | | | **S-36PK2E5B** | **S-50PK2E5B** | **S-60PK2E5B** | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 13,00 / 11,00 / 9,00 | 16,00 / 17,50 / 11,00 | 20,00 / 17,50 / 14,50 | 20,00 / 17,50 / 14,50 | 22,00 / 18,50 / 15,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 35 / 31 / 27 | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 13 | 13 | 14 | 14 | 14 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** | **U-60PE2E5A** | **U-71PE1E5A** | **U-100PE1E5A** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | — | — | — |
| Connection indoor / outdoor | | $mm^2$ | — | — | — | — | — |
| Current | Cool | A | 3,85 / 3,70 / 3,55 | 6,60 / 6,30 / 6,05 | 8,45 / 8,05 / 9,75 | 9,70 / 9,40 / 9,10 | 13,40 / 12,90 / 12,40 |
| | Heat | A | 4,15 / 3,95 / 3,80 | 6,75 / 6,45 / 6,20 | 8,10 / 7,75 / 7,40 | 9,20 / 8,40 / 8,60 | 10,90 / 10,50 / 10,20 |
| Air volume | Cool / Heat | $m^3$/min | 38 / 38 | 38 / 41 | 38 / 41 | 60 / 60 | 110 / 95 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45 / 46 | 46 / 48 | 46 / 49 | 48 / 50 | 52 / 52 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 40 | 69 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 - 50 | 5 - 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 40 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40 / 2,9232 | 1,40 / 2,9232 | 1,95 / 4,0716 | 2,35 / 4,9068 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-PACR3** | Interfaces to run 3 units on Backup and alternative run |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- Modern design with flat face and compact size
- Stylish matt white color
- DC FAN for better efficiency and control
- Six directional piping outlet
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

## Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

## Smooth and durable design

Stylish matt color matches with modern interiors. The sleek, compact design ensures a discreet installation - even where space is limited.

## Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

## Air distribution is altered depending on the operational mode




| | | | Three Phase | |
|---|---|---|---|---|
| | | | 7,10kW | 10,00kW |
| **KIT** | | | **KIT-71PK2E8D** | **KIT-100PK2E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (3,20 - 8,00) | 9,50 (3,30 - 10,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,40 (5,71 - 3,02) | 3,25 (3,93 - 3,09) |
| **SEER [2]** | | | **6,50 A++** | **6,10 A+** |
| Pdesign | | kW | 7,10 | 9,50 |
| Input power cooling | Nominal (Min - Max) | kW | 2,09 (0,56 - 2,65) | 2,92 (0,84 - 3,40) |
| Annual energy consumption [3] | | kWh/a | 382 | 545 |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,80 - 9,00) | 9,50 (4,10 - 11,50) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,00 (5,60 - 3,10) | 3,97 (4,56 - 3,43) |
| **SCOP [2]** | | | **4,10 A+** | **4,00 A+** |
| Pdesign at -10°C | | kW | 7,10 | 9,50 |
| Input power heating | Nominal (Min - Max) | kW | 2,00 (0,50 - 2,90) | 2,39 (0,90 - 3,35) |
| Annual energy consumption [3] | | kWh/a | 2424 | 3325 |
| **Indoor unit** | | | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 20,00 / 17,50 / 14,50 | 22,00 / 18,50 / 15,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 47 / 44 / 40 | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 14 | 14 |
| **Outdoor unit** | | | **U-71PE1E8A** | **U-100PE1E8A** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 |
| Connection indoor / outdoor | | $mm^2$ | 2,50 | 2,50 |
| Current | Cool | A | 3,25 / 3,10 / 3,00 | 4,60 / 4,35 / 4,30 |
| | Heat | A | 3,05 / 3,00 / 2,85 | 3,70 / 3,55 / 3,45 |
| Air volume | Cool / Heat | $m^3$/min | 60 / 60 | 110 / 95 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 71 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 - 50 | 5 - 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 6,70 SEER | A+ 4,30 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-71PK2E5D. SCOP: For KIT-36PK2E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Wall Mounted Inverter+
# • R410A GAS

The wall mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.

The compact design and flat face ensure discreet installation, even in a small space.







**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | |
|---|---|---|---|---|---|
| | | | **6,10kW** | **7,10kW** | **10,00kW** |
| **KIT** | | | **KIT-60PKY2E5D** | **KIT-71PKY2E5D** | **KIT-100PKY2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,10 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 9,00 (2,70 - 9,70) |
| EER [1] | Nominal (Min - Max) | W/W | 3,47 (6,67 - 3,02) | 2,90 (6,67 - 2,61) | 2,67 (5,09 - 2,55) |
| **SEER [2]** | | | **5,70 A+** | **5,40 A** | **5,90 A+** |
| Pdesign | | kW | 6,10 | 7,10 | 9,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,76 (0,30 - 2,35) | 2,45 (0,30 - 2,95) | 3,37 (0,53 - 3,80) |
| Annual energy consumption [3] | | kWh/a | 375 | 460 | 534 |
| Heating capacity | Nominal (Min - Max) | kW | 6,10 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 9,00 (2,10 - 10,50) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | 9,97 / 8,43 |
| COP [1] | Nominal (Min - Max) | W/W | 4,30 (9,00 - 4,12) | 4,20 (9,00 - 3,60) | 3,78 (5,12 - 3,50) |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **3,90 A** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 9,00 |
| Input power heating | Nominal (Min - Max) | kW | 1,42 (0,20 - 1,70) | 1,69 (0,20 - 2,25) | 2,38 (0,41 - 3,00) |
| Annual energy consumption [3] | | kWh/a | 2100 | 2100 | 3231 |
| **Indoor unit** | | | **S-60PK2E5B** | **S-71PK2E5B** | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 20,00 / 17,50 / 14,50 | 20,00 / 17,50 / 14,50 | 22,00 / 18,50 / 15,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 47 / 44 / 40 | 47 / 44 / 40 | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 14 | 14 | 14 |
| **Outdoor unit** | | | **U-60PEY2E5** | **U-71PEY2E5** | **U-100PEY1E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | 25 |
| Connection indoor / outdoor | | mm² | — | — | 4,0 |
| Current | Cool | A | 8,60 / 8,20 / 7,85 | 12,00 / 11,40 / 11,00 | 16,00 / 15,30 / 14,60 |
| | Heat | A | 6,85 / 6,55 / 6,30 | 8,25 / 7,85 / 7,55 | 10,90 / 10,60 / 10,10 |
| Air volume | Cool / Heat | m³/min | 38 / 41 | 44 / 41 | 76 / 67 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 54 / 54 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 |
| Net weight | | kg | 40 | 40 | 73 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 - 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 40 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 1,95 / 4,0716 | 2,60 / 5,4288 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 / +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 / +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-PACR3** | Interfaces to run 3 units on Backup and alternative run |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| **Accessories** | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- Modern design with flat face and compact size
- Stylish matt white color
- DC FAN for better efficiency and control
- Six directional piping outlet
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

## Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

## Smooth and durable design

Stylish matt color matches with modern interiors. The sleek, compact design ensures a discreet installation - even where space is limited.

## Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

## Air distribution is altered depending on the operational mode




| | | | Three Phase |
|---|---|---|---|
| | | | 10,00kW |
| **KIT** | | | **KIT-100PKY2E8D** |
| **Remote controller** | | | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 9,00 (2,70 - 9,70) |
| EER [1] | Nominal (Min - Max) | W/W | 2,67 (5,09 - 2,55) |
| **SEER [2]** | | | **5,80 A+** |
| Pdesign | | kW | 9,00 |
| Input power cooling | Nominal (Min - Max) | kW | 3,37 (0,53 - 3,80) |
| Annual energy consumption [3] | | kWh/a | 543 |
| Heating capacity | Nominal (Min - Max) | kW | 9,00 (2,10 - 10,50) |
| Heating capacity at -7°C / -15°C [4] | | kW | 9,97 / 8,43 |
| COP [1] | Nominal (Min - Max) | W/W | 3,78 (5,12 - 3,50) |
| **SCOP [2]** | | | **3,90 A** |
| Pdesign at -10°C | | kW | 9,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,38 (0,41 - 3,00) |
| Annual energy consumption [3] | | kWh/a | 3231 |
| **Indoor unit** | | | **S-100PK2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 22,00 / 18,50 / 15,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 49 / 45 / 41 |
| Dimension | H x W x D | mm | 302 x 1120 x 236 |
| Net weight | | kg | 14 |
| **Outdoor unit** | | | **U-100PEY1E8** |
| Power source | | V | 380 / 400 / 415 |
| Recommended fuse | | A | 16 |
| Connection indoor / outdoor | | $mm^2$ | 2,5 |
| Current | Cool | A | 5,40 / 5,10 / 4,95 |
| | Heat | A | 3,75 / 3,55 / 3,45 |
| Air volume | Cool / Heat | $m^3$/min | 76 / 67 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 54 / 54 |
| Dimension | H x W x D | mm | 996 x 940 x 340 |
| Net weight | | kg | 73 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) |
| Pipe length range | | m | 5 - 50 |
| Elevation difference (in/out) [6] | | m | 30 |
| Pipe length for additional gas | | m | 30 |
| Additional gas amount | | g/m | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,60 / 5,4288 |
| Operating range | Cool Min ~ Max | °C | -10 / +43 |
| | Heat Min ~ Max | °C | -15 / +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A+ 5,90 SEER | A+ 4,00 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | DC FAN | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-100PKY2E5D. SCOP: For KIT-60PKY2E5D and KIT-71PKY2E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite and Standard 4 Way 60x60 Cassette Inverter+ • R410A GAS

## Small and powerful, ideal for offices and restaurants

Standard units only for Twin, Triple and Double-twin combinations.

**High heating capacity at -7°C.**







**CZ-KPY3AW**
Panel 700 x 700mm.

**CZ-KPY3BW**
Panel 625 x 625mm.





**CZ-RWS3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | |
|---|---|---|---|---|
| | | | **3,60kW** | **5,00kW** |
| **KIT** | | | **KIT-36PY2E5C** | **KIT-50PY2E5C** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) |
| EER [1] | Nominal (Min - Max) | W/W | 4,50 (6,25 - 421) | 3,47 (6,25 - 3,16) |
| **SEER [2]** | | | **6,30 A++** | **6,10 A++** |
| Pdesign | | kW | 3,60 | 5,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,80 (0,24 - 0,95) | 1,44 (0,24 - 1,77) |
| Annual energy consumption [3] | | kWh/a | 200 | 287 |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) |
| COP [1] | Nominal (Min - Max) | W/W | 4,08 (7,89 - 3,68) | 3,31 (7,89 - 3,00) |
| **SCOP [2]** | | | **4,10 A+** | **3,90 A** |
| Pdesign at -10°C | | kW | 3,60 | 5,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,98 (0,19 - 1,36) | 1,69 (0,19 - 2,17) |
| Annual energy consumption [3] | | kWh/a | 1229 | 1795 |
| **Indoor unit** | | | **S-36PY2E5B** | **S-50PY2E5B** |
| Air volume | Cool (Hi / Med / Lo) | m³/min | 9,70 / 8,00 / 6,00 | 11,10 / 9,80 / 8,50 |
| | Heat (Hi / Med / Lo) | m³/min | 9,90 / 8,20 / 6,00 | 11,10 / 9,80 / 8,70 |
| Moisture removal volume | | L/h | 2,1 | 2,8 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 36 / 32 / 26 | 40 / 37 / 33 |
| Sound power | Hi / Med / Lo | dB | 51 / 47 / 41 | 55 / 52 / 48 |
| Dimension (H x W x D) / Net weight | Indoor | mm / kg | 288 x 583 x 583 / 18 | 288 x 583 x 583 / 18 |
| | CZ-KPY3AW Panel | mm / kg | 31 x 700 x 700 / 2,4 | 31 x 700 x 700 / 2,4 |
| | CZ-KPY3BW Panel | mm / kg | 31 x 625 x 625 / 2,4 | 31 x 625 x 625 / 2,4 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 |
| Current | Cool | A | 3,80 / 3,60 / 3,50 | 6,70 / 6,50 / 6,20 |
| | Heat | A | 4,70 / 4,50 / 4,35 | 8,05 / 7,70 / 7,40 |
| Air volume | Cool / Heat | m³/min | 38 / 38 | 38 / 41 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45 / 46 | 46 / 48 |
| Sound power | Cool / Heat (Hi) | dB | 64 / 66 | 65 / 68 |
| Dimension / Net weight | H x W x D | mm / kg | 619 x 799 x 299 / 39 | 619 x 799 x 299 / 39 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 |
| Elevation difference (in/out) [6] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40 / 2,9232 | 1,40 / 2,9232 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

INVERTER+ | A++ 6,30 SEER | A+ 4,10 SCOP | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-36PY2E5C. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

## Technical focus

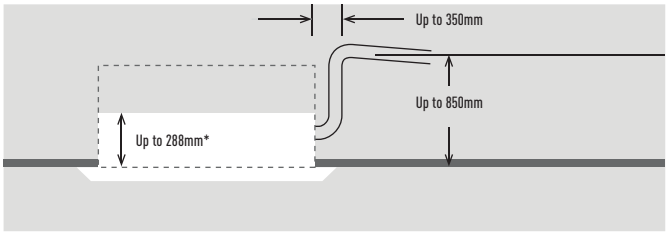
- Fresh air distribution
- Multidirectional air flow
- Integrated drain pump gives 850mm lift
- 3 speed centrifugal fan
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Lighter and slimmer, easier installation

Lightweight and very slim which makes installation possible even in narrow ceilings.
Designed to fit exactly into a 600x600mm ceiling grid without the need to alter the bar configuration.

## A drain height of approximately 850mm from the ceiling surface

The drain height can be increased by approx. 350mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.
Lightweight at 18kg, the unit is also very slim with a height of only 288mm, making installation possible even in narrow ceilings.




## Significant reduction of power consumption by using highly developed DC fan motors with variable speed, special heat exchangers, etc.

| | | | 3,60kW | 4,50kW | 5,00kW |
|---|---|---|---|---|---|
| **Indoor unit** | | | **S-36PY2E5B** | **S-45PY2E5B**[1)] | **S-50PY2E5B** |
| Cooling capacity | | kW | 3,60 | 4,50 | 5,00 |
| Heating capacity | | kW | 4,20 | 5,20 | 5,60 |
| Current | Cool | A | 0,30 | 0,32 | 0,35 |
| | Heat | A | 0,30 | 0,30 | 0,35 |
| Input power | Cool | kW | 0,40 | 0,40 | 0,45 |
| | Heat | kW | 0,35 | 0,35 | 0,40 |
| Air volume | Cool / Heat | $m^3$/min | 10,00/10,00 | 10,00/10,00 | 11,00/11,00 |
| Moisture removal volume | | L/h | 2,1 | 2,5 | 2,8 |
| Sound pressure | Cool (Hi / Med / Lo) | dB(A) | 36/32/26 | 38/34/28 | 40/37/33 |
| | Heat (Hi / Med / Lo) | dB(A) | 36/32/26 | 38/34/28 | 40/37/33 |
| Sound power | Cool (Hi) | dB | 51/47/41 | 53/49/43 | 55/52/48 |
| | Heat (Hi) | dB | 51/47/41 | 53/49/43 | 55/52/48 |
| Dimension (H x W x D) | Indoor | mm | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 |
| | Panel CZ-KPY3AW | mm | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 |
| | Panel CZ-KPY3BW | mm | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 |
| Net weight | Indoor | kg | 18 | 18 | 18 |
| | Panel | kg | 2,4 | 2,4 | 2,4 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |
| Operating range | Cool Min ~ Max | °C | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 |
| | Heat Min ~ Max | °C | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 |

1) Only for multi combinations.
Recommended fuse for the indoor 3A.

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with datanavi |
| **CZ-RWS3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

# PACi Elite 4 Way 90x90 Cassette Inverter+ • R410A GAS



**CZ-KPU3W**
Standard panel.

## Large capacity PACi. Trusted comfort and high efficiency

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, and nanoe™ X air purification, the U2 Panasonic 4 way 90x90 Cassette offers high energy saving, fresh air and comfort.

### High heating capacity at -7°C.



**CZ-KPU3AW**
Optional Econavi panel (CZ-RTC5B is required).



**CZ-CNEXU1**
Optional nanoe™ X kit (CZ-RTC5B is required).



**CZ-RWS3 + CZ-RWRU3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PU2E5D** | **KIT-50PU2E5D** | **KIT-60PU2E5D** | **KIT-71PU2E5D** | **KIT-100PU2E5D** | **KIT-125PU2E5D** | **KIT-140PU2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,50 - 8,00) | 10,00 (3,03 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,68 (6,25 - 4,40) | 3,79 (6,25 - 3,46) | 3,75 (8,00 - 3,23) | 3,94 (5,56 - 3,02) | 4,27 (4,29 - 3,38) | 3,70 (4,29 - 3,04) | 3,30 (4,29 - 2,70) |
| **SEER [2]** | | | **7,40 A++** | **7,10 A++** | **7,40 A++** | **7,60 A++** | **7,60 A++** | **6,91** | **6,52** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,77 (0,24 - 0,91) | 1,32 (0,24 - 1,62) | 1,60 (0,25 - 2,20) | 1,80 (0,45 - 2,65) | 2,34 (0,77 - 3,70) | 3,37 (0,77 - 4,60) | 4,24 (0,77 - 5,74) |
| Annual energy consumption [3] | | kWh/a | 170 | 246 | 284 | 327 | 461 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | — / — | — / — | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 5,13 (7,89 - 4,63) | 4,44 (7,89 - 4,01) | 4,07 (9,00 - 3,90) | 4,30 (5,00 - 3,16) | 5,00 (5,19 - 3,18) | 4,60 (5,19 - 3,17) | 4,30 (5,19 - 3,15) |
| **SCOP [2]** | | | **4,60 A++** | **4,40 A+** | **4,20 A+** | **4,30 A+** | **4,80 A++** | **4,10** | **3,90** |
| Pdesign at -10°C | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,78 (0,19 - 1,08) | 1,26 (0,19 - 1,62) | 1,72 (0,20 - 2,05) | 1,86 (0,40 - 2,85) | 2,24 (0,79 - 4,40) | 3,04 (0,79 - 5,04) | 3,72 (0,79 - 5,72) |
| Annual energy consumption [3] | | kWh/a | 1095 | 1591 | 1999 | 2312 | 2917 | — | — |
| **Indoor unit** | | | **S-36PU2E5B** | **S-50PU2E5B** | **S-60PU2E5B** | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 14,50/13,00/11,50 | 16,50/13,50/11,50 | 21,00/16,00/13,00 | 22,00/16,00/13,00 | 36,00/26,00/18,00 | 37,00/27,00/19,00 | 38,00/29,00/20,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 30/28/27 | 32/29/27 | 36/31/28 | 37/31/28 | 45/38/32 | 46/39/33 | 47/40/34 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 19 / 5 | 19 / 5 | 20 / 5 | 20 / 5 | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** | **U-60PE2E5A** | **U-71PE1E5A** | **U-100PE1E5A** | **U-125PE1E5A** | **U-140PE1E5A** |
| Power source | | V | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 |
| Recommended fuse | | A | — | — | — | 20 | 25 | 30 | 16 |
| Connection indoor / outdoor | | mm² | — | — | — | 2,5 | 4,0 | 6,0 | 2,5 |
| Current | Cool | A | 3,75/3,55/3,40 | 6,25/5,95/5,70 | 7,90/7,50/7,25 | 8,40/8,10/7,90 | 10,50/10,10/9,70 | 15,20/14,70/14,30 | 19,30/18,60/18,00 |
| | Heat | A | 3,80/3,60/3,45 | 6,05/5,75/5,50 | 8,50/8,15/7,80 | 8,60/8,25/8,00 | 10,10/9,70/9,40 | 13,70/13,30/12,90 | 16,90/16,30/15,80 |
| Air volume | Cool / Heat | m³/min | 38/38 | 38/41 | 38/41 | 60/60 | 110/95 | 130/110 | 135/120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45/46 | 46/48 | 46/49 | 48/50 | 52/52 | 53/53 | 54/55 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 40 | 69 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 40 | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40/2,9232 | 1,40/2,9232 | 1,95/4,0716 | 2,35/4,9068 | 3,40/7,0992 | 3,40/7,0992 | 3,40/7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRU3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **CZ-CNEXU1** | nanoe™ X air purifying system |
| **CZ-KPU3AW** | Econavi exclusive panel |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- High performance turbo fan, path system for heat exchanger
- nanoe™ X: The first air purifier technology in commercial air conditioning
- Econavi: Intelligent sensor to reduce waste of energy
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Lower noise in slow fan operation
- Light weight, easy piping
- Drain pump included

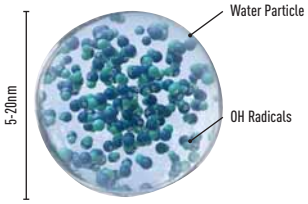
## Group control, circulation function

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.

## nanoe™ X deodorises and inhibits certain bacteria & viruses

The newly developed nanoe™ X device produces 10x times more OH radicals (4800 billion) [1] than regular nanoe™ device.
Greater amounts of OH radicals contained in nanoe™ X lead to outstanding effects in bacteria, viruses and allergens inhibition as well as deodorisation. A fresher and cleaner home awaits you.

1) Based on Panasonic Survey.
CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.




**4800 BILLION OH RADICALS / PER SECOND**

| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PU2E8D** | **KIT-100PU2E8D** | **KIT-125PU2E8D** | **KIT-140PU2E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (3,20 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,94 (5,71 - 3,02) | 4,27 (4,29 - 3,38) | 3,70 (4,29 - 3,04) | 3,30 (4,29 - 2,70) |
| **SEER [2]** | | | **7,30 A++** | **7,40 A++** | **6,89** | **6,50** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,80 (0,56 - 2,65) | 2,34 (0,77 - 3,70) | 3,37 (0,77 - 4,60) | 4,24 (0,77 - 5,74) |
| Annual energy consumption [3] | | kWh/a | 340 | 473 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,80 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,30 (5,60 - 3,16) | 5,00 (5,19 - 3,18) | 4,60 (5,19 - 3,17) | 4,30 (5,19 - 3,15) |
| **SCOP [2]** | | | **4,30 A+** | **4,80 A++** | **4,10** | **3,90** |
| Pdesign at -10°C | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 1,86 (0,50 - 2,85) | 2,24 (0,79 - 4,40) | 3,04 (0,79 - 5,04) | 3,72 (0,79 - 5,72) |
| Annual energy consumption [3] | | kWh/a | 2312 | 2917 | — | — |
| **Indoor unit** | | | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 22,00 / 16,00 / 13,00 | 36,00 / 26,00 / 18,00 | 37,00 / 27,00 / 19,00 | 38,00 / 29,00 / 20,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 37 / 31 / 28 | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 20 / 5 | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-71PE1E8A** | **U-100PE1E8A** | **U-125PE1E8A** | **U-140PE1E8A** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 2,80 / 2,70 / 2,60 | 3,60 / 3,45 / 3,35 | 5,25 / 5,00 / 4,80 | 6,65 / 6,30 / 6,10 |
| | Heat | A | 2,90 / 2,80 / 2,70 | 3,45 / 3,30 / 3,20 | 4,75 / 4,50 / 4,35 | 5,80 / 5,55 / 5,35 |
| Air volume | Cool / Heat | m³/min | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 71 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 7,60 SEER | A++ 4,80 SCOP | 28% ECONAVI | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | nanoeX | DC FAN | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-100PU2E5D. ECONAVI and INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard 4 Way 90x90 Cassette Inverter+ • R410A GAS





**CZ-KPU3W**
Standard panel.







## Large capacity PACi. Trusted comfort and high efficiency

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, and nanoe™ X air purification, the U2 Panasonic 4 way 90x90 Cassette offers high energy saving, fresh air and comfort.



**CZ-KPU3AW**
Optional Econavi panel (CZ-RTC5B is required).



**CZ-CNEXU1**
Optional nanoe™ X kit (CZ-RTC5B is required).





**CZ-RWS3 + CZ-RWRU3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

| | | | Single Phase | | | |
|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW |
| **KIT** | | | **KIT-60PUY2E5D** | **KIT-71PUY2E5D** | **KIT-100PUY2E5D** | **KIT-125PUY2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 10,00 (3,30 - 12,50) | 12,50 (3,80 - 13,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,70 (8,00 - 3,23) | 3,24 (8,00 - 2,91) | 4,27 (4,29 - 3,38) | 3,16 (4,22 - 2,77) |
| **SEER [2]** | | | **7,00 A++** | **6,50 A++** | **7,60 A++** | **6,22** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 |
| Input power cooling | Nominal (Min - Max) | kW | 1,62 (0,25 - 2,20) | 2,19 (0,25 - 2,65) | 2,34 (0,77 - 3,70) | 3,96 (0,90 - 4,88) |
| Annual energy consumption [3] | | kWh/a | 300 | 382 | 461 | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 11,20 (4,10 - 14,00) | 12,50 (3,40 - 15,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,20 (9,00 - 4,24) | 4,13 (9,00 - 3,68) | 5,00 (5,19 - 3,18) | 4,10 (4,66 - 3,41) |
| **SCOP [2]** | | | **4,10 A+** | **4,20 A+** | **4,80 A++** | **3,87** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 10,00 | 12,50 |
| Input power heating | Nominal (Min - Max) | kW | 1,43 (0,20 - 1,65) | 1,72 (0,20 - 2,20) | 2,24 (0,79 - 4,40) | 3,05 (0,73 - 4,40) |
| Annual energy consumption [3] | | kWh/a | 2047 | 2002 | 2917 | — |
| **Indoor unit** | | | **S-60PU2E5B** | **S-71PU2E5B** | **S-100PU2E5B** | **S-125PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 21,00 / 16,00 / 13,00 | 22,00 / 16,00 / 13,00 | 36,0 / 26,00 / 18,00 | 37,00 / 27,00 / 19,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 36 / 31 / 28 | 37 / 31 / 28 | 45 / 38 / 32 | 46 / 39 / 33 |
| Dimension | Indoor (H x W x D) | mm | 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 20 / 5 | 20 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-60PEY2E5** | **U-71PEY2E5** | **U-100PEY1E5** | **U-125PEY1E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | — | 30 |
| Connection indoor / outdoor | | mm² | — | — | — | 6,0 |
| Current | Cool | A | 8,00 / 7,60 / 7,30 | 10,70 / 10,30 / 9,85 | 14,80 / 14,20 / 13,60 | 18,80 / 18,00 / 17,20 |
| | Heat | A | 7,05 / 6,75 / 6,45 | 8,50 / 8,10 / 7,80 | 11,00 / 10,60 / 10,20 | 14,30 / 13,60 / 13,10 |
| Air volume | Cool / Heat | m³/min | 38 / 41 | 44 / 41 | 110 / 95 | 80 / 73 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 56 / 56 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 996 x 940 x 340 |
| Net weight | | kg | 40 | 40 | 73 | 85 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 40 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 1,95 / 4,0716 | 2,60 / 5,4288 | 3,20 / 6,6816 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRU3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **CZ-CNEXU1** | nanoe™ X air purifying system |
| **CZ-KPU3AW** | Econavi exclusive panel |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |

| Accessories | |
|---|---|
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- High performance turbo fan, path system for heat exchanger
- nanoe™ X: The first air purifier technology in commercial air conditioning
- Econavi: Intelligent sensor to reduce waste of energy
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Lower noise in slow fan operation
- Light weight, easy piping
- Drain pump included

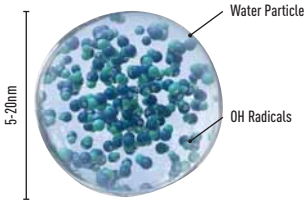
## Group control, circulation function

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.

## nanoe™ X deodorises and inhibits certain bacteria & viruses

The newly developed nanoe™ X device produces 10x times more OH radicals (4800 billion) [1] than regular nanoe™ device.
Greater amounts of OH radicals contained in nanoe™ X lead to outstanding effects in bacteria, viruses and allergens inhibition as well as deodorisation. A fresher and cleaner home awaits you.

1) Based on Panasonic Survey.
CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.




**4800 BILLION**
**OH RADICALS /**
**PER SECOND**

| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PUY2E8D** | **KIT-125PUY2E8D** | **KIT-140PUY2E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,16 (5,09 - 2,74) | 3,16 (4,22 - 2,77) | 3,25 (3,93 - 267) |
| **SEER [2]** | | | **6,60 A++** | **6,20** | **6,39** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 3,16 (0,53 - 4,20) | 3,96 (0,90 - 4,88) | 4,31 (0,84 - 5,81) |
| Annual energy consumption [3] | | kWh/a | 530 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) | 14,00 (4,10 - 16,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,15 (5,12 - 3,45) | 4,10 (4,66 - 3,41) | 4,15 (4,56 - 3,08) |
| **SCOP [2]** | | | **4,30 A+** | **3,87** | **3,79** |
| Pdesign at -10°C | | kW | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,41 (0,41 - 4,00) | 3,05 (0,73 - 4,40) | 3,37 (0,90 - 5,20) |
| Annual energy consumption [3] | | kWh/a | 3256 | — | — |
| **Indoor unit** | | | **S-100PU2E5B** | **S-125PU2E5B** | **S-140PU2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 36,00 / 26,00 / 18,00 | 37,00 / 27,00 / 19,00 | 38,00 / 29,00 / 20,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 45 / 38 / 32 | 46 / 39 / 33 | 47 / 40 / 34 |
| Dimension | Indoor (H x W x D) | mm | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel (H x W x D) | mm | 33,5 x 950 x 950 | 33,5 x 950 x 950 | 33,5 x 950 x 950 |
| Net weight | Indoor / Panel | kg | 25 / 5 | 25 / 5 | 25 / 5 |
| **Outdoor unit** | | | **U-100PEY1E8** | **U-125PEY1E8** | **U-140PEY1E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 5,00 / 4,75 / 4,60 | 6,20 / 5,90 / 5,70 | 6,75 / 6,40 / 6,20 |
| | Heat | A | 3,80 / 3,60 / 3,50 | 4,75 / 4,50 / 4,35 | 5,25 / 5,00 / 4,80 |
| Air volume | Cool / Heat | m³/min | 76 / 67 | 80 / 73 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 54 / 54 | 56 / 56 | 54 / 53 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 73 | 85 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,60 / 5,4288 | 3,20 / 6,6816 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 7,60 SEER | A++ 4,80 SCOP | 28% ECONAVI | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | nanoeX | DC FAN | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-100PUY2E5D. ECONAVI and INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Ceiling Inverter+ • R410A GAS

## Ceiling mounted units provide large and wide air distribution which is good for big rooms

The height and depth of all capacities are the same for unified appearance in mixed installations.

## High heating capacity at -7°C.





**CZ-RWS3 + CZ-RWRT3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PT2E5D** | **KIT-50PT2E5D** | **KIT-60PT2E5D** | **KIT-71PT2E5D** | **KIT-100PT2E5D** | **KIT-125PT2E5D** | **KIT-140PT2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 4,80 (6,25 - 4,49) | 3,73 (6,25 - 3,41) | 3,73 (8,00 - 3,16) | 3,68 (5,56 - 2,88) | 3,95 (3,93 - 3,25) | 3,35 (3,93 - 2,88) | 3,01 (3,93 - 2,65) |
| **SEER [2]** | | | **6,70 A++** | **6,50 A++** | **6,80 A++** | **6,20 A++** | **6,70 A++** | **5,76** | **5,36** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,75 (0,24 - 0,89) | 1,34 (0,24 - 1,64) | 1,61 (0,25 - 2,25) | 1,93 (0,45 - 2,78) | 2,53 (0,84 - 3,85) | 3,73 (0,84 - 4,86) | 4,65 (0,84 - 5,65) |
| Annual energy consumption [3] | | kWh/a | 188 | 269 | 309 | 965 | 523 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | 7,52 / 7,65 | 12,04 / 11,20 | 13,48 / 12,38 | 14,24 / 12,69 |
| COP [1] | Nominal (Min - Max) | W/W | 5,00 (7,89 - 4,50) | 4,18 (7,89 - 3,78) | 4,22 (9,00 - 4,10) | 4,15 (5,00 - 3,10) | 4,31 (4,56 - 3,18) | 3,99 (4,56 - 3,07) | 3,67 (4,56 - 3,04) |
| **SCOP [2]** | | | **4,30 A+** | **4,10 A+** | **4,10 A+** | **4,00 A+** | **4,30 A+** | **3,81** | **3,70** |
| Pdesign at -10°C | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,80 (0,19 - 1,11) | 1,34 (0,19 - 1,72) | 1,66 (0,20 - 1,95) | 1,93 (0,40 - 2,90) | 2,60 (0,90 - 4,40) | 3,51 (0,90 - 5,21) | 4,36 (0,90 - 5,93) |
| Annual energy consumption [3] | | kWh/a | 1172 | 1707 | 2050 | 2485 | 3256 | — | — |
| **Indoor unit** | | | **S-36PT2E5B** | **S-50PT2E5B** | **S-60PT2E5B** | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 14,00/12,00/10,50 | 15,00/12,50/10,50 | 20,00/17,00/14,50 | 21,00/18,00/15,50 | 30,00/25,00/23,00 | 34,00/28,00/24,00 | 35,00/29,00/25,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 36/32/29 | 37/33/29 | 38/34/30 | 39/35/31 | 42/37/35 | 46/40/36 | 47/41/37 |
| Dimension | H x W x D | mm | 235 x 960 x 690 | 235 x 960 x 690 | 235 x 1275 x 690 | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 27 | 27 | 33 | 33 | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** | **U-60PE2E5A** | **U-71PE1E5A** | **U-100PE1E5A** | **U-125PE1E5A** | **U-140PE1E5A** |
| Power source | | V | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 |
| Recommended fuse | | A | — | — | — | 20 | 25 | 30 | 16 |
| Connection indoor / outdoor | | mm² | — | — | — | 2,5 | 4,0 | 6,0 | 2,5 |
| Current | Cool | A | 3,55/3,40/3,25 | 6,30/6,00/5,75 | 7,90/7,50/7,20 | 9,00/8,70/8,40 | 11,50/11,10/10,60 | 17,00/16,40/15,80 | 21,20/20,50/19,80 |
| | Heat | A | 3,80/3,65/3,50 | 6,35/6,10/5,80 | 8,15/7,80/7,45 | 8,90/8,60/8,30 | 11,80/11,40/11,00 | 16,00/15,40/14,90 | 19,80/19,20/18,50 |
| Air volume | Cool / Heat | m³/min | 38/38 | 38/41 | 38/41 | 60/60 | 110/95 | 130/110 | 135/120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45/46 | 46/48 | 46/49 | 48/50 | 52/52 | 53/53 | 54/55 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 40 | 69 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 40 | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40/2,9232 | 1,40/2,9232 | 1,95/4,0716 | 2,35/4,9068 | 3,40/7,0992 | 3,40/7,0992 | 3,40/7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

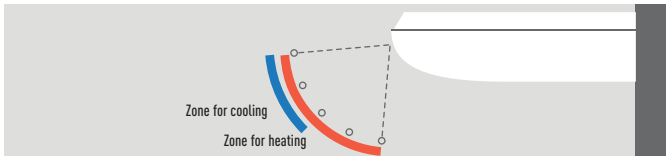
| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRT3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

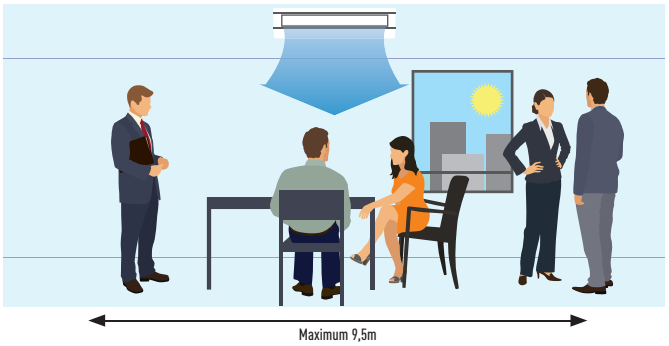
- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5m
- Fresh air connection available on the unit
- Slim design with 235m height fits narrow space
- Silent operation
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Air distribution is altered depending on the operational mode




## Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5m. This is ideal for wide rooms. The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.




| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PT2E8D** | **KIT-100PT2E8D** | **KIT-125PT2E8D** | **KIT-140PT2E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,68 (5,56 - 2,88) | 3,95 (3,93 - 3,25) | 3,35 (3,93 - 2,88) | 3,01 (3,93 - 2,65) |
| **SEER [2]** | | | **5,90 A+** | **6,60 A++** | **5,74** | **5,34** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,93 (0,45 - 2,78) | 2,53 (0,84 - 3,85) | 3,73 (0,84 - 4,86) | 4,65 (0,84 - 5,65) |
| Annual energy consumption [3] | | kWh/a | 421 | 531 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | 7,52 / 7,65 | 12,04 / 11,20 | 13,48 / 12,38 | 14,24 / 12,69 |
| COP [1] | Nominal (Min - Max) | W/W | 4,15 (5,00 - 3,10) | 4,31 (4,56 - 3,18) | 3,99 (4,56 - 3,07) | 3,67 (4,56 - 3,04) |
| **SCOP [2]** | | | **4,00 A+** | **4,30 A+** | **3,81** | **3,70** |
| Pdesign at -10°C | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 1,93 (0,40 - 2,90) | 2,60 (0,90 - 4,40) | 3,51 (0,90 - 5,21) | 4,36 (0,90 - 5,93) |
| Annual energy consumption [3] | | kWh/a | 2485 | 3256 | — | — |
| **Indoor unit** | | | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | $m^3$/min | 21,00 / 18,00 / 15,50 | 30,00 / 25,00 / 23,00 | 34,00 / 28,00 / 24,00 | 35,00 / 29,00 / 25,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 39 / 35 / 31 | 42 / 37 / 35 | 46 / 40 / 36 | 47 / 41 / 37 |
| Dimension | H x W x D | mm | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 33 | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-71PE1E8A** | **U-100PE1E8A** | **U-125PE1E8A** | **U-140PE1E8A** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | $mm^2$ | 2,5 | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 3,00 / 2,90 / 2,80 | 3,95 / 3,75 / 3,65 | 5,85 / 5,55 / 5,35 | 7,30 / 6,95 / 6,70 |
| | Heat | A | 3,00 / 2,90 / 2,80 | 4,05 / 3,85 / 3,75 | 5,50 / 5,20 / 5,05 | 6,85 / 6,50 / 6,25 |
| Air volume | Cool / Heat | $m^3$/min | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 71 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 6,70 SEER | A+ 4,30 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-60PT2E5D. SCOP: For KIT-36PT2E5D and KIT-100PT2E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Ceiling Inverter+ • R410A GAS

## Ceiling mounted units provide large and wide air distribution which is good for big rooms

The height and depth of all capacities are the same for unified appearance in mixed installations.





**CZ-RWS3 + CZ-RWRT3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | |
|---|---|---|---|---|---|---|
| | | | **6,00kW** | **7,10kW** | **10,00kW** | **12,50kW** |
| **KIT** | | | **KIT-60PTY2E5D** | **KIT-71PTY2E5D** | **KIT-100PTY2E5D** | **KIT-125PTY2E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,68 (8,00 - 3,16) | 3,21 (8,00 - 2,91) | 3,01 (5,09 - 2,65) | 3,01 (4,22 - 2,62) |
| **SEER [2]** | | | **6,70 A++** | **6,10 A++** | **6,10 A++** | **5,26** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 |
| Input power cooling | Nominal (Min - Max) | kW | 1,63 (0,25 - 2,25) | 2,21 (0,25 - 2,65) | 3,32 (0,53 - 4,34) | 4,15 (0,90 - 5,16) |
| Annual energy consumption [3] | | kWh/a | 313 | 407 | 574 | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | 9,97 / 8,43 | 10,97 / 9,03 |
| COP [1] | Nominal (Min - Max) | W/W | 4,35 (9,00 - 4,38) | 4,23 (9,00 - 3,77) | 3,85 (5,12 - 3,45) | 3,85 (4,66 - 3,41) |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **3,90 A** | **3,58** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 10,00 | 12,50 |
| Input power heating | Nominal (Min - Max) | kW | 1,38 (0,20 - 1,60) | 1,68 (0,20 - 2,15) | 2,60 (0,41 - 4,00) | 3,25 (0,73 - 4,40) |
| Annual energy consumption [3] | | kWh/a | 2100 | 2100 | 3590 | — |
| **Indoor unit** | | | **S-60PT2E5B** | **S-71PT2E5B** | **S-100PT2E5B** | **S-125PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 20,00 / 17,00 / 14,50 | 21,00 / 18,00 / 15,50 | 30,00 / 25,00 / 23,00 | 34,00 / 28,00 / 24,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 38 / 34 / 30 | 39 / 35 / 31 | 42 / 37 / 35 | 46 / 40 / 36 |
| Dimension | H x W x D | mm | 235 x 1275 x 690 | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 33 | 33 | 40 | 40 |
| **Outdoor unit** | | | **U-60PEY2E5** | **U-71PEY2E5** | **U-100PEY1E5** | **U-125PEY1E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | 25 | 30 |
| Connection indoor / outdoor | | mm² | — | — | 4 | 6 |
| Current | Cool | A | 8,00 / 7,60 / 7,30 | 10,80 / 10,30 / 9,85 | 15,60 / 15,00 / 14,40 | 19,70 / 18,90 / 18,10 |
| | Heat | A | 6,70 / 6,45 / 6,15 | 8,20 / 7,85 / 7,50 | 11,90 / 11,50 / 11,10 | 15,20 / 14,60 / 13,90 |
| Air volume | Cool / Heat | m³/min | 38 / 41 | 44 / 41 | 110 / 95 | 80 / 73 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 56 / 56 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 996 x 940 x 340 |
| Net weight | | kg | 40 | 40 | 73 | 85 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 40 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 1,95 / 4,0716 | 2,60 / 5,4288 | 3,20 / 6,6816 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

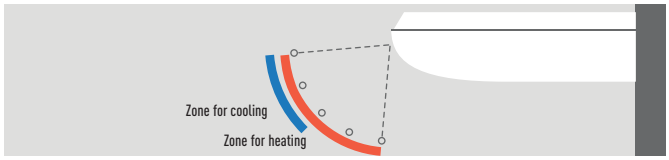
| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRT3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

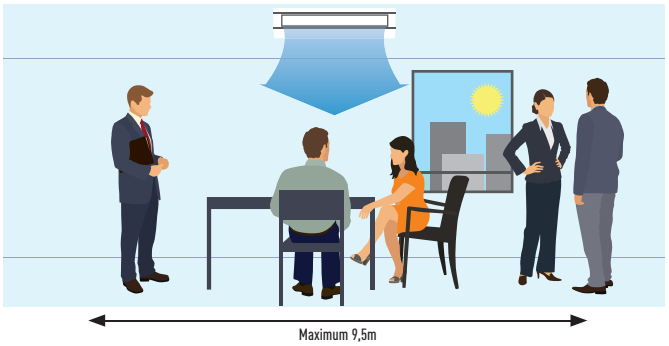
- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5m
- Fresh air connection available on the unit
- Slim design with 235m height fits narrow space
- Silent operation
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## Air distribution is altered depending on the operational mode




## Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5m. This is ideal for wide rooms. The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.




| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PTY2E8D** | **KIT-125PTY2E8D** | **KIT-140PTY2E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) | 14,00 (3,30 - 15,00) |
| EER [1] | Nominal (Min - Max) | W/W | 3,01 (5,09 - 2,65) | 3,01 (4,22 - 2,62) | 2,98 (3,93 - 2,63) |
| **SEER [2]** | | | **6,00 A+** | **5,24** | **5,25** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 3,32 (0,53 - 4,34) | 4,15 (0,90 - 5,16) | 4,70 (0,84 - 5,70) |
| Annual energy consumption [3] | | kWh/a | 584 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) | 14,00 (4,10 - 16,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | 9,97/8,43 | 10,97/9,03 | 13,35/12,38 |
| COP [1] | Nominal (Min - Max) | W/W | 3,85 (5,12 - 3,45) | 3,85 (4,66 - 3,41) | 3,88 (4,56 - 3,07) |
| **SCOP [2]** | | | **3,90 A** | **3,58** | **3,57** |
| Pdesign at -10°C | | kW | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,60 (0,41 - 4,00) | 3,25 (0,73 - 4,40) | 3,61 (0,90 - 5,21) |
| Annual energy consumption [3] | | kWh/a | 3590 | — | — |
| **Indoor unit** | | | **S-100PT2E5B** | **S-125PT2E5B** | **S-140PT2E5B** |
| Air volume | Hi / Med / Lo | m³/min | 30,00/25,00/23,00 | 34,00/28,00/24,00 | 35,00/29,00/25,00 |
| Sound pressure [5] | Hi / Med / Lo | dB(A) | 42/37/35 | 46/40/36 | 47/41/37 |
| Dimension | H x W x D | mm | 235 x 1590 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 40 | 40 | 40 |
| **Outdoor unit** | | | **U-100PEY1E8** | **U-125PEY1E8** | **U-140PEY1E8** |
| Power source | | V | 380/400/415 | 380/400/415 | 380/400/415 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 5,30/5,05/4,85 | 6,50/6,20/6,00 | 7,40/7,00/6,80 |
| | Heat | A | 4,10/3,90/3,75 | 5,10/4,80/4,65 | 5,65/5,35/5,15 |
| Air volume | Cool / Heat | m³/min | 76/67 | 80/73 | 135/120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 54/54 | 56/56 | 54/53 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 73 | 85 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [6] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,60/5,4288 | 3,20/6,6816 | 3,40/7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) The sound pressure of the units shows the value measured of the position 1m in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 6,70 SEER | A+ 4,00 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-60PTY2E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite High Static Pressure Hide Away Inverter+ • R410A GAS

The ducted systems are the ideal solution for flexible, concealed air conditioning and the optional 200mm spigots ensure simple, hassle-free connection to spiral ductwork.

## High heating capacity at -7°C.





**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PF1E5D** | **KIT-50PF1E5D** | **KIT-60PF1E5D** | **KIT-71PF1E5D** | **KIT-100PF1E5D** | **KIT-125PF1E5D** | **KIT-140PF1E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 4,44 (5,17 - 4,00) | 3,85 (5,17 - 3,50) | 3,64 (5,97 - 3,02) | 3,84 (4,72 - 3,02) | 4,10 (3,93 - 3,38) | 3,50 (3,93 - 3,04) | 3,25 (3,93 - 2,58) |
| **SEER [2]** | | | **5,70 A+** | **5,70 A+** | **6,10 A++** | **6,40 A++** | **5,80 A+** | **5,57** | **5,41** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,81 (0,29 - 1,00) | 1,30 (0,29 - 1,60) | 1,65 (0,34 - 2,35) | 1,85 (0,53 - 2,65) | 2,44 (0,84 - 3,70) | 3,57 (0,84 - 4,60) | 4,31 (0,84 - 6,00) |
| Annual energy consumption [3] | | kWh/a | 221 | 307 | 344 | 388 | 603 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | — / — | — / — | — / — | 12,32 / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,55 (6,25 - 4,17) | 4,03 (6,25 - 3,71) | 4,00 (6,32 - 3,81) | 3,85 (4,17 - 3,10) | 4,31 (4,56 - 3,18) | 4,02 (4,56 - 3,08) | 3,60 (4,56 - 3,05) |
| **SCOP [2]** | | | **3,90 A** | **3,90 A** | **4,00 A+** | **4,00 A+** | **3,80 A** | **3,72** | **3,63** |
| Pdesign at -10°C | | kW | 3,60 | 4,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,88 (0,24 - 1,20) | 1,39 (0,24 - 1,75) | 1,75 (0,29 - 2,10) | 2,08 (0,48 - 2,90) | 2,60 (0,90 - 4,40) | 3,48 (0,90 - 5,20) | 4,44 (0,90 - 5,90) |
| Annual energy consumption [3] | | kWh/a | 1292 | 1436 | 2100 | 2485 | 3684 | — | — |
| **Indoor unit** | | | **S-36PF1E5B** | **S-50PF1E5B** | **S-60PF1E5B** | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 70 (10 - 150) | 70 (10 - 150) | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 14,00/13,00/10,00 | 16,00/15,00/12,00 | 21,00/19,00/15,00 | 21,00/19,00/15,00 | 32,00/26,00/21,00 | 34,00/29,00/23,00 | 36,00/32,00/25,00 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 33/29/25 | 34/30/26 | 35/32/26 | 35/32/26 | 38/34/31 | 39/35/32 | 40/36/33 |
| Dimension | H x W x D | mm | 290 x 800 x 700 | 290 x 800 x 700 | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 28 | 28 | 33 | 33 | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** | **U-60PE2E5A** | **U-71PE1E5A** | **U-100PE1E5A** | **U-125PE1E5A** | **U-140PE1E5A** |
| Power source | | V | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 |
| Recommended fuse | | A | — | — | — | 20 | 25 | 30 | 16 |
| Connection indoor / outdoor | | mm² | — | — | — | 2,5 | 4,0 | 6,0 | 2,5 |
| Current | Cool | A | 3,70/3,50/3,40 | 5,80/5,60/5,30 | 7,70/7,40/7,10 | 8,90/8,60/8,30 | 11,00/10,60/10,30 | 16,60/15,90/15,30 | 20,10/19,30/18,60 |
| | Heat | A | 4,05/3,85/3,70 | 6,30/6,05/5,80 | 8,25/7,85/7,55 | 9,90/9,50/9,20 | 11,60/11,20/10,70 | 16,30/15,80/15,10 | 19,90/19,10/18,40 |
| Air volume | Cool / Heat | m³/min | 38/38 | 38/41 | 38/41 | 60/60 | 110/95 | 130/110 | 135/120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45/46 | 46/48 | 46/49 | 48/50 | 52/52 | 53/53 | 54/55 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 40 | 69 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [7] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 40 | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40/2,9232 | 1,40/2,9232 | 1,95/4,0716 | 2,35/4,9068 | 3,40/7,0992 | 3,40/7,0992 | 3,40/7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-56DAF2** | Air Outlet Plenum S . .PF1E5B 36, 45 & 50 |
| **CZ-90DAF2** | Air Outlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-160DAF2** | Air Outlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-DUMPA90MF2** | Air Inlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-DUMPA160MF2** | Air Inlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- High ESP (external static pressure) up to 150 Pa
- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required)
- DC FAN for better efficiency and control
- Built in drain pump
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## The static pressure outside the unit can be increased up to 150 Pa

| Type | | 60 | 71 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|
| Standard | Pa | 70 | 70 | 100 | 100 | 100 |
| Maximum available setting | Pa | 150 | 150 | 150 | 150 | 150 |

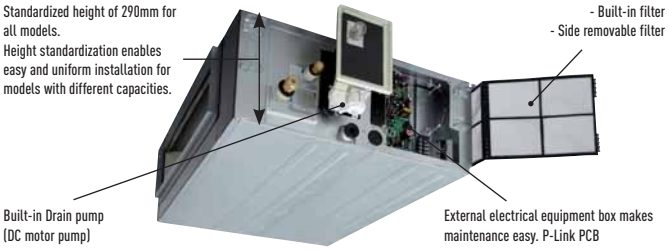
## More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated up to 785mm from the base of the unit.

## Plenums

| Air Outlet Plenum (without regulation adaptor) | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-90DAF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-160DAF2 |

| Air Inlet Plenum | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-DUMPA90MF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-DUMPA160MF2 |




| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-71PF1E8D** | **KIT-100PF1E8D** | **KIT-125PF1E8D** | **KIT-140PF1E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (3,20 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,84 (5,00 - 3,02) | 4,10 (3,93 - 3,38) | 3,50 (3,93 - 3,04) | 3,25 (3,93 - 2,58) |
| **SEER [2]** | | | **6,00 A+** | **5,70 A+** | **5,55** | **5,40** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 1,85 (0,64 - 2,65) | 2,44 (0,84 - 3,70) | 3,57 (0,84 - 4,60) | 4,31 (0,84 - 6,00) |
| Annual energy consumption [3] | | kWh/a | 414 | 614 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,80 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | 12,32 / — |
| COP [1] | Nominal (Min - Max) | W/W | 3,85 (4,83 - 3,10) | 4,31 (4,56 - 3,18) | 4,02 (4,56 - 3,08) | 3,60 (4,56 - 3,05) |
| **SCOP [2]** | | | **3,90 A** | **3,80 A** | **3,72** | **3,63** |
| Pdesign at -10°C | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,08 (0,58 - 2,90) | 2,60 (0,90 - 4,40) | 3,48 (0,90 - 5,20) | 4,44 (0,90 - 5,90) |
| Annual energy consumption [3] | | kWh/a | 2548 | 3684 | — | — |
| **Indoor unit** | | | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 21,00 / 19,00 / 15,00 | 32,00 / 26,00 / 21,00 | 34,00 / 29,00 / 23,00 | 36,00 / 32,00 / 25,00 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Dimension | H x W x D | mm | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 33 | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-71PE1E8A** | **U-100PE1E8A** | **U-125PE1E8A** | **U-140PE1E8A** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 2,75 / 2,65 / 2,60 | 3,68 / 3,53 / 3,43 | 5,52 / 5,29 / 5,12 | 6,69 / 6,42 / 6,18 |
| | Heat | A | 3,10 / 3,00 / 2,90 | 3,86 / 3,70 / 3,58 | 5,44 / 5,26 / 5,05 | 6,64 / 6,35 / 6,15 |
| Air volume | Cool / Heat | m³/min | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 71 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [7] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A++ 6,40 SEER | A+ 4,80 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | FILTER INCLUDED | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-71PF1E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard High Static Pressure Hide Away Inverter+ • R410A GAS

**The ducted systems are the ideal solution for flexible, concealed air conditioning and the optional 200mm spigots ensure simple, hassle-free connection to spiral ductwork.**





**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | |
|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW |
| **KIT** | | | **KIT-60PFY1E5D** | **KIT-71PFY1E5D** | **KIT-100PFY1E5D** | **KIT-125PFY1E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,35 (5,97 - 2,85) | 2,76 (5,97 - 2,48) | 3,01 (5,09 - 2,74) | 3,05 (4,22 - 2,70) |
| **SEER [2]** | | | **5,50 A** | **5,40 A** | **5,40 A** | **5,11** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 |
| Input power cooling | Nominal (Min - Max) | kW | 1,79 (0,34 - 2,49) | 2,57 (0,34 - 3,10) | 3,32 (0,53 - 4,20) | 4,10 (0,90 - 5,00) |
| Annual energy consumption [3] | | kWh/a | 382 | 460 | 648 | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | 11,00 / — |
| COP [1] | Nominal (Min - Max) | W/W | 4,38 (6,32 - 4,12) | 4,10 (6,32 - 3,68) | 3,80 (5,12 - 3,45) | 3,82 (4,66 - 3,41) |
| **SCOP [2]** | | | **4,00 A+** | **4,00 A+** | **3,80 A** | **3,60** |
| Pdesign at -10°C | | kW | 6,00 | 6,00 | 9,50 | 12,50 |
| Input power heating | Nominal (Min - Max) | kW | 1,37 (0,29 - 1,70) | 1,73 (0,29 - 2,20) | 2,63 (0,41 - 4,00) | 3,27 (0,73 - 4,40) |
| Annual energy consumption [3] | | kWh/a | 2100 | 2100 | 3500 | — |
| **Indoor unit** | | | **S-60PF1E5B** | **S-71PF1E5B** | **S-100PF1E5B** | **S-125PF1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 70 (10 - 150) | 70 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 21 / 19 / 15 | 21 / 19 / 15 | 32 / 26 / 21 | 34 / 29 / 23 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 |
| Dimension | H x W x D | mm | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 33 | 33 | 45 | 45 |
| **Outdoor unit** | | | **U-60PEY2E5** | **U-71PEY2E5** | **U-100PEY1E5** | **U-125PEY1E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | 25 | 30 |
| Connection indoor / outdoor | | mm² | — | — | 4 | 6 |
| Current | Cool | A | 8,40 / 8,10 / 7,75 | 12,20 / 11,70 / 11,20 | 15,10 / 14,50 / 13,90 | 18,80 / 18,00 / 17,20 |
| | Heat | A | 6,30 / 6,05 / 5,80 | 8,15 / 7,80 / 7,45 | 11,80 / 11,20 / 10,70 | 14,60 / 14,00 / 13,40 |
| Air volume | Cool / Heat | m³/min | 38 / 41 | 44 / 41 | 76 / 67 | 80 / 73 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 54 / 54 | 56 / 56 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 996 x 940 x 340 |
| Net weight | | kg | 40 | 40 | 73 | 85 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [7] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 40 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 1,95 / 4,0716 | 2,60 / 5,4288 | 3,20 / 6,6816 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-90DAF2** | Air Outlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-160DAF2** | Air Outlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-DUMPA90MF2** | Air Inlet Plenum S . .PF1E5B 60 & 71 |
| **CZ-DUMPA160MF2** | Air Inlet Plenum S . .PF1E5B 100, 125 & 140 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- High ESP (external static pressure) up to 150 Pa
- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required)
- DC FAN for better efficiency and control
- Built in drain pump
- Datanavi simple support tool App with remote controller (CZ-RTC5B)
- Twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

## The static pressure outside the unit can be increased up to 150 Pa

| Type | | 60 | 71 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|
| Standard | Pa | 70 | 70 | 100 | 100 | 100 |
| Maximum available setting | Pa | 150 | 150 | 150 | 150 | 150 |

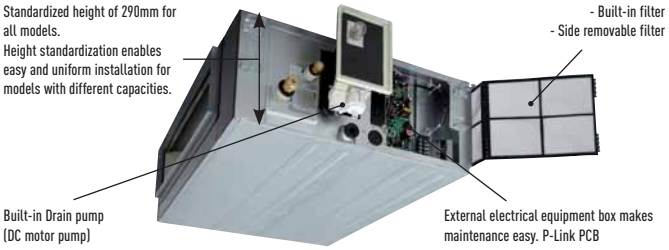
## More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated up to 785mm from the base of the unit.

## Plenums

| Air Outlet Plenum (without regulation adaptor) | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-90DAF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-160DAF2 |

| Air Inlet Plenum | Diameters | Model |
|---|---|---|
| 60 & 71 | 3xØ 200 | CZ-DUMPA90MF2 |
| 100, 125 & 140 | 4xØ 200 | CZ-DUMPA160MF2 |




| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PFY1E8D** | **KIT-125PFY1E8D** | **KIT-140PFY1E8D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,01 (5,09 - 2,74) | 3,05 (4,22 - 2,70) | 3,22 (3,93 - 2,58) |
| **SEER [2]** | | | **5,20 A** | **5,10** | **5,31** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 3,32 (0,53 - 4,20) | 4,10 (0,90 - 5,00) | 4,35 (0,84 - 6,00) |
| Annual energy consumption [3] | | kWh/a | 673 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) | 14,00 (4,10 - 16,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | 11,00 / — | 12,32 / — |
| COP [1] | Nominal (Min - Max) | W/W | 3,80 (5,12 - 3,45) | 3,82 (4,66 - 3,41) | 3,91 (4,56 - 3,08) |
| **SCOP [2]** | | | **3,80 A** | **3,60** | **3,53** |
| Pdesign at -10°C | | kW | 9,50 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,63 (0,41 - 4,00) | 3,27 (0,73 - 4,40) | 3,58 (0,90 - 5,20) |
| Annual energy consumption [3] | | kWh/a | 3500 | — | — |
| **Indoor unit** | | | **S-100PF1E5B** | **S-125PF1E5B** | **S-140PF1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 100 (10 - 150) | 100 (10 - 150) | 100 (10 - 150) |
| Air volume | Hi / Med / Lo | m³/min | 32 / 26 / 21 | 34 / 29 / 23 | 36 / 32 / 25 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Dimension | H x W x D | mm | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 45 | 45 | 45 |
| **Outdoor unit** | | | **U-100PEY1E8** | **U-125PEY1E8** | **U-140PEY1E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 5,10 / 4,85 / 4,70 | 6,20 / 5,90 / 5,70 | 6,75 / 6,45 / 6,25 |
| | Heat | A | 4,05 / 3,80 / 3,65 | 4,90 / 4,65 / 4,50 | 5,60 / 5,40 / 5,20 |
| Air volume | Cool / Heat | m³/min | 76 / 67 | 80 / 73 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 54 / 54 | 56 / 56 | 54 / 53 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 73 | 85 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [7] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,60 / 5,4288 | 3,20 / 6,6816 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.




SEER and SCOP: KIT-60PFY1E5D. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Elite Low Static Pressure Hide Away Inverter+ • R410A GAS

**The depth of only 250mm provides greater installation flexibility and the unit can be used in more applications. Ideal for sites with narrow ceiling voids.**

**High heating capacity at -7°C.**

**Ultra-slim profile: 250mm height for all models.**







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 3,60kW | 5,00kW | 6,00kW | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-36PN1E5C** | **KIT-50PN1E5C** | **KIT-60PN1E5C** | **KIT-71PN1E5C** | **KIT-100PN1E5C** | **KIT-125PN1E5C** | **KIT-140PN1E5C** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 3,60 (1,50 - 4,00) | 5,00 (1,50 - 5,60) | 6,00 (2,00 - 7,10) | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,75 (4,41 - 3,57) | 3,21 (4,41 - 2,96) | 3,24 (5,00 - 2,78) | 3,30 (4,55 - 2,91) | 3,75 (3,79 - 3,29) | 3,21 (3,30 - 2,92) | 3,01 (3,30 - 2,50) |
| **SEER [2]** | | | **4,60 B** | **4,60 B** | **5,50 A** | **5,50 A** | **5,90 A+** | **5,44** | **5,27** |
| Pdesign | | kW | 3,60 | 5,00 | 6,00 | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 0,96 (0,34 - 1,12) | 1,56 (0,34 - 1,89) | 1,85 (0,40 - 2,55) | 2,15 (0,55 - 2,75) | 2,67 (0,87 - 3,80) | 3,89 (1,00 - 4,80) | 4,65 (1,00 - 6,20) |
| Annual energy consumption [3] | | kWh/a | 274 | 380 | 382 | 452 | 583 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 4,00 (1,50 - 5,00) | 5,60 (1,50 - 6,50) | 7,00 (1,80 - 8,00) | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | — / — | 7,52 | 12,04 | 13,48 | 14,24 |
| COP [1] | Nominal (Min - Max) | W/W | 4,30 (5,17 - 4,00) | 3,81 (5,17 - 3,49) | 3,74 (5,14 - 3,64) | 3,54 (4,00 - 3,08) | 3,80 (4,18 - 3,11) | 3,61 (3,90 - 2,96) | 3,41 (3,90 - 2,95) |
| **SCOP [2]** | | | **3,80 A** | **3,80 A** | **3,80 A** | **3,80 A** | **3,90 A** | **3,66** | **3,58** |
| Pdesign at -10°C | | kW | 3,60 | 3,80 | 5,60 | 6,20 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 0,93 (0,29 - 1,25) | 1,47 (0,29 - 1,86) | 1,87 (0,35 - 2,20) | 2,26 (0,50 - 2,92) | 2,95 (0,98 - 4,50) | 3,88 (1,05 - 5,40) | 4,69 (1,05 - 6,10) |
| Annual energy consumption [3] | | kWh/a | 1326 | 1478 | 2061 | 2458 | 3590 | — | — |
| **Indoor unit** | | | **S-36PN1E5B** | **S-50PN1E5B** | **S-60PN1E5B** | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 25 (10 - 80) | 25 (10 - 80) | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Cool / Heat | m³/min | 14 / 12 / 10 | 16 / 13 / 11 | 22 / 20 / 16 | 22 / 20 / 16 | 36 / 33 / 26 | 38 / 35 / 28 | 40 / 37 / 30 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 40 / 38 / 35 | 41 / 39 / 35 | 43 / 41 / 36 | 43 / 41 / 36 | 44 / 42 / 37 | 45 / 43 / 38 | 46 / 44 / 39 |
| Dimension | H x W x D | mm | 250 x 780 x 650 | 250 x 780 x 650 | 250 x 1000 x 650 | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 29 | 29 | 32 | 32 | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-36PE2E5A** | **U-50PE2E5A** | **U-60PE2E5A** | **U-71PE1E5A** | **U-100PE1E5A** | **U-125PE1E5A** | **U-140PE1E5A** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | — | 20 | 25 | 30 | 16 |
| Connection indoor / outdoor | | mm² | — | — | — | 2,5 | 4 | 6 | 2,5 |
| Current | Cool | A | 4,35 / 4,15 / 3,95 | 7,00 / 6,65 / 6,35 | 8,60 / 8,30 / 7,90 | 9,70 / 9,40 / 9,20 | 11,60 / 11,20 / 10,90 | 17,40 / 16,90 / 16,40 | 20,50 / 20,10 / 19,50 |
| | Heat | A | 4,10 / 4,00 / 3,80 | 6,60 / 6,30 / 6,05 | 8,75 / 8,35 / 8,00 | 10,20 / 9,90 / 9,70 | 12,80 / 12,50 / 12,20 | 17,30 / 16,80 / 16,30 | 20,60 / 20,20 / 19,60 |
| Air volume | Cool / Heat | m³/min | 38 / 38 | 38 / 41 | 38 / 41 | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 45 / 46 | 46 / 48 | 46 / 49 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Dimension [7] | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 39 | 39 | 40 | 69 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [8] | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 20 | 20 | 40 | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,40 / 2,9232 | 1,40 / 2,9232 | 1,95 / 4,0716 | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

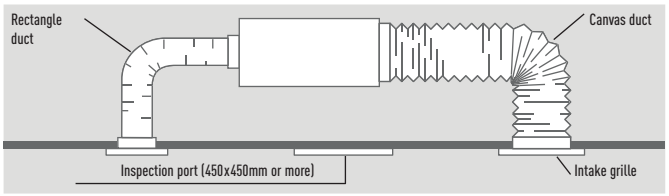
| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

## Technical focus

- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required. S-60/71/100/125/140PN1E5B models only)
- Compact indoor units without loosing static pressure (only 250mm high)
- 50 Pa static pressure
- Easy maintenance and service via external electrical box
- 3 speed centrifugal fan through wired or Infrared remote controller
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

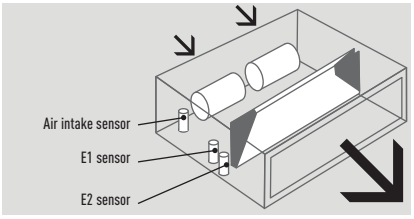
## System Example

An inspection port (450mmx450mm or more) is required at the control-box side of the indoor unit body.




## Cold Drafts Reduction at Heating

Accurate DX Coil temperature measurement by E1 and E2 sensor to reduce cold drafts at heating and increasing efficiency and comfort.




Before spec-in, please consult with an authorized Panasonic dealer.

| | | | Three Phase | | | |
|---|---|---|---|---|---|---|
| | | | **7,10kW** | **10,00kW** | **12,50kW** | **14,00kW** |
| **KIT** | | | **KIT-71PN1E8C** | **KIT-100PN1E8C** | **KIT-125PN1E8C** | **KIT-140PN1E8C** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,30 (3,79 - 2,91) | 3,75 (3,79 - 3,29) | 3,21 (3,30 - 2,92) | 3,01 (3,30 - 2,50) |
| **SEER [2]** | | | **5,10 A** | **5,60 A+** | **5,44** | **5,27** |
| Pdesign | | kW | 7,10 | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 2,15 (0,66 - 2,75) | 2,67 (0,87 - 3,80) | 3,89 (1,00 - 4,80) | 4,65 (1,00 - 6,20) |
| Annual energy consumption [3] | | kWh/a | 487 | 621 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | 7,52 | 12,04 | 13,48 | 14,24 |
| COP [1] | Nominal (Min - Max) | W/W | 3,54 (3,33 - 3,00) | 3,80 (4,18 - 3,11) | 3,61 (3,90 - 2,96) | 3,41 (3,90 - 2,95) |
| **SCOP [2]** | | | **3,80 A** | **3,80 A** | **3,66** | **3,58** |
| Pdesign at -10°C | | kW | 6,20 | 10,00 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,26 (0,60 - 3,00) | 2,95 (0,98 - 4,50) | 3,88 (1,05 - 5,40) | 4,69 (1,05 - 6,10) |
| Annual energy consumption [3] | | kWh/a | 2284 | 3684 | — | — |
| **Indoor unit** | | | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Cool / Heat | m³/min | 22 / 20 / 16 | 36 / 33 / 26 | 38 / 35 / 28 | 40 / 37 / 30 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 43 / 41 / 36 | 44 / 42 / 37 | 45 / 43 / 38 | 46 / 44 / 39 |
| Dimension | H x W x D | mm | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 32 | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-71PE1E8A** | **U-100PE1E8A** | **U-125PE1E8A** | **U-140PE1E8A** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 3,25 / 3,10 / 3,00 | 3,95 / 3,75 / 3,60 | 5,80 / 5,50 / 5,30 | 6,95 / 6,60 / 6,35 |
| | Heat | A | 3,35 / 3,20 / 3,10 | 4,35 / 4,15 / 4,00 | 5,80 / 5,50 / 5,30 | 7,00 / 6,65 / 6,45 |
| Air volume | Cool / Heat | m³/min | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Dimension [7] | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 71 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 |
| Elevation difference (in/out) [8] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Add 100mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A+ 5,90 SEER | A 3,90 SCOP | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | DC FAN | FILTER INCLUDED | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: KIT-100PN1E5C. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PACi Standard Low Static Pressure Hide Away Inverter+ • R410A GAS

**The depth of only 250mm provides greater installation flexibility and the unit can be used in more applications. Ideal for sites with narrow ceiling voids.**

**Ultra-slim profile: 250mm height for all models.**







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.



**CZ-CENSC1**
Optional Econavi Sensor.

| | | | Single Phase | | | |
|---|---|---|---|---|---|---|
| | | | 6,00kW | 7,10kW | 10,00kW | 12,50kW |
| **KIT** | | | **KIT-60PNY1E5C** | **KIT-71PNY1E5C** | **KIT-100PNY1E5C** | **KIT-125PNY1E5C** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 6,00 (2,00 - 7,10) | 7,10 (2,00 - 7,70) | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) |
| EER [1] | Nominal (Min - Max) | W/W | 3,21 (5,00 - 2,78) | 2,76 (5,00 - 2,48) | 2,81 (4,74 - 2,67) | 2,81 (4,00 - 2,60) |
| **SEER [2]** | | | **4,80 B** | **5,10 A** | **5,30 A** | **4,95** |
| Pdesign | | kW | 6,00 | 7,10 | 10,00 | 12,50 |
| Input power cooling | Nominal (Min - Max) | kW | 1,87 (0,40 - 2,55) | 2,57 (0,40 - 3,10) | 3,56 (0,57 - 4,30) | 4,45 (0,95 - 5,20) |
| Annual energy consumption [3] | | kWh/a | 437 | 487 | 660 | — |
| Heating capacity | Nominal (Min - Max) | kW | 6,00 (1,80 - 7,00) | 7,10 (1,80 - 8,10) | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | — / — | — / — | 9,97 | 10,97 |
| COP [1] | Nominal (Min - Max) | W/W | 3,73 (5,14 - 3,78) | 3,70 (5,14 - 3,31) | 3,41 (4,67 - 3,37) | 3,41 (4,36 - 3,26) |
| **SCOP [2]** | | | **3,80 A** | **3,80 A** | **3,80 A** | **3,52** |
| Pdesign at -10°C | | kW | 5,60 | 5,60 | 7,60 | 12,50 |
| Input power heating | Nominal (Min - Max) | kW | 1,61 (0,35 - 1,85) | 1,92 (0,35 - 2,45) | 2,94 (0,45 - 4,10) | 3,67 (0,78 - 4,60) |
| Annual energy consumption [3] | | kWh/a | 2061 | 2061 | 2800 | — |
| **Indoor unit** | | | **S-60PN1E5B** | **S-71PN1E5B** | **S-100PN1E5B** | **S-125PN1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 25 (10 - 80) | 25 (10 - 80) | 40 (10 - 80) | 50 (10 - 80) |
| Air volume | Cool / Heat | m³/min | 22 / 20 / 16 | 22 / 20 / 16 | 36 / 33 / 26 | 38 / 35 / 28 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 43 / 41 / 36 | 43 / 41 / 36 | 44 / 42 / 37 | 45 / 43 / 38 |
| Dimension | H x W x D | mm | 250 x 1000 x 650 | 250 x 1000 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 32 | 32 | 41 | 41 |
| **Outdoor unit** | | | **U-60PEY2E5** | **U-71PEY2E5** | **U-100PEY1E5** | **U-125PEY1E5** |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | A | — | — | 25 | 30 |
| Connection indoor / outdoor | | mm² | — | — | 4 | 6 |
| Current | Cool | A | 8,70 / 8,40 / 8,00 | 12,10 / 11,60 / 11,20 | 16,00 / 15,30 / 14,80 | 20,10 / 19,30 / 18,70 |
| | Heat | A | 7,40 / 7,10 / 6,80 | 9,00 / 8,60 / 8,25 | 13,00 / 12,50 / 12,10 | 16,50 / 15,80 / 15,20 |
| Air volume | Cool / Heat | m³/min | 38 / 41 | 44 / 41 | 110 / 95 | 80 / 73 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 46 / 48 | 49 / 49 | 52 / 52 | 56 / 56 |
| Dimension [7] | H x W x D | mm | 619 x 799 x 299 | 619 x 799 x 299 | 996 x 940 x 340 | 996 x 940 x 340 |
| Net weight | | kg | 40 | 40 | 73 | 85 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 3 ~ 40 | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [8] | | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 40 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 1,95 / 4,0716 | 2,60 / 5,4288 | 3,20 / 6,6816 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

| Accessories | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |
| **PAW-WTRAY** | Tray for condenser water compatible with base ground support |
| **PAW-GRDBSE20** | Outdoor base ground support for noise and vibration absorption |

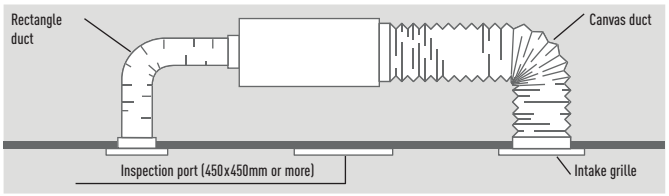
| Accessories | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **PAW-WPH7** | Wind protection shield for U-100/125/140PE1E5A/8A and U-140PEY1E8 |
| **PAW-WPH9** | Wind protection shield for U-71PE1E5A/8A and U-100/125PEY1E5/8 |
| **CZ-CAPWFC1** | NEW Commercial WLAN Adaptor |

## Technical focus

- Automatic learning function for the required static pressure on site during commissioning (a standard wired remote controller is required. S-60/71/100/125/140PN1E5B models only)
- Compact indoor units without loosing static pressure (only 250mm high)
- 50 Pa static pressure
- Easy maintenance and service via external electrical box
- 3 speed centrifugal fan through wired or Infrared remote controller
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

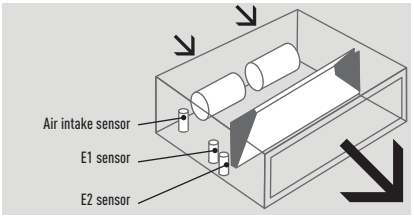
## System Example

An inspection port (450mmx450mm or more) is required at the control-box side of the indoor unit body.




## Cold Drafts Reduction at Heating

Accurate DX Coil temperature measurement by E1 and E2 sensor to reduce cold drafts at heating and increasing efficiency and comfort.




Before spec-in, please consult with an authorized Panasonic dealer.

| | | | Three Phase | | |
|---|---|---|---|---|---|
| | | | 10,00kW | 12,50kW | 14,00kW |
| **KIT** | | | **KIT-100PNY1E8C** | **KIT-125PNY1E8C** | **KIT-140PNY1E8C** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) | 14,00 (3,30 - 15,50) |
| EER [1] | Nominal (Min - Max) | W/W | 2,81 (4,74 - 2,67) | 2,81 (4,00 - 2,60) | 2,98 (3,93 - 2,58) |
| **SEER [2]** | | | **5,20 A** | **4,95** | **5,18** |
| Pdesign | | kW | 10,00 | 12,50 | 14,00 |
| Input power cooling | Nominal (Min - Max) | kW | 3,56 (0,57 - 4,30) | 4,45 (0,95 - 5,20) | 4,70 (0,84 - 6,00) |
| Annual energy consumption [3] | | kWh/a | 673 | — | — |
| Heating capacity | Nominal (Min - Max) | kW | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) | 14,00 (4,10 - 16,00) |
| Heating capacity at -7°C / -15°C [4] | | kW | 9,97 | 10,97 | 13,35 |
| COP [1] | Nominal (Min - Max) | W/W | 3,41 (4,67 - 3,37) | 3,41 (4,36 - 3,26) | 3,52 (4,56 - 3,08) |
| **SCOP [2]** | | | **3,80 A** | **3,52** | **3,52** |
| Pdesign at -10°C | | kW | 7,60 | 12,50 | 14,00 |
| Input power heating | Nominal (Min - Max) | kW | 2,94 (0,45 - 4,10) | 3,67 (0,78 - 4,60) | 3,88 (1,05 - 5,40) |
| Annual energy consumption [3] | | kWh/a | 2800 | — | — |
| **Indoor unit** | | | **S-100PN1E5B** | **S-125PN1E5B** | **S-140PN1E5B** |
| External static pressure [5] | Nominal (Min - Max) | Pa | 40 (10 - 80) | 50 (10 - 80) | 50 (10 - 80) |
| Air volume | Cool / Heat | m³/min | 36 / 33 / 26 | 38 / 35 / 28 | 40 / 37 / 30 |
| Sound pressure [6] | Hi / Med / Lo | dB(A) | 44 / 42 / 37 | 45 / 43 / 38 | 46 / 44 / 39 |
| Dimension | H x W x D | mm | 250 x 1200 x 650 | 250 x 1200 x 650 | 250 x 1200 x 650 |
| Net weight | | kg | 41 | 41 | 41 |
| **Outdoor unit** | | | **U-100PEY1E8** | **U-125PEY1E8** | **U-140PEY1E8** |
| Power source | | V | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 400 / 415 |
| Recommended fuse | | A | 16 | 16 | 16 |
| Connection indoor / outdoor | | mm² | 2,5 | 2,5 | 2,5 |
| Current | Cool | A | 5,45 / 5,20 / 5,05 | 6,85 / 6,50 / 6,25 | 7,05 / 6,50 / 6,45 |
| | Heat | A | 4,45 / 4,25 / 4,10 | 5,55 / 5,30 / 5,10 | 5,90 / 5,60 / 5,40 |
| Air volume | Cool / Heat | m³/min | 76 / 67 | 80 / 73 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 54 / 54 | 56 / 56 | 54 / 53 |
| Dimension [7] | H x W x D | mm | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 73 | 85 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | | m | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) [8] | | m | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 |
| Additional gas amount | | g/m | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,60 / 5,4288 | 3,20 / 6,6816 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Heating capacity is calculated including defrost factor correction. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Add 100mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. * Recommended fuse for the indoor 3A.

A 5,30 SEER | A 3,80 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | DC FAN | FILTER INCLUDED | R22 → R410A R22 RENEWAL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: KIT-100PNY1E5C. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PANASONIC PACi SERIES PE2

20,00 – 25,00kW is ideally suited for small, mid retail applications.
In addition to its light net weight and compact body, split-able Hide Away design newly developed enables easy piping work in narrow installation space.



## Panasonic Big PACi, not only environmental friendly but also groundbreaking products

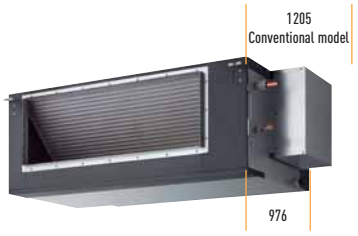
- High efficiency with Panasonic compressor as the driving force
- Compact & light indoor body
- Easy piping work with split-able Hide Away indoor design
- Separable indoor unit allows flexible installation to fit in narrow space
- Water Heat Exchanger compatibility
- Bluefin anti-rust coating
- Cloud Control compatible

## Compact and light indoor body keeping high efficiency

15% lighter weight vs conventional model helps installation work drastically.

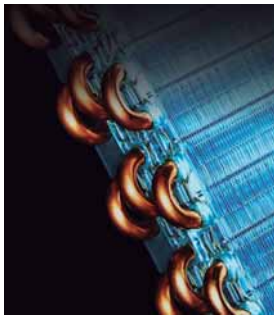
| | Conventional model | New |
|---|---|---|
| **20,00kW** | 100kg | **86kg** |
| **25,00kW** | 104kg | **88kg** |

**DEPTH WAS REDUCED BY 230mm**



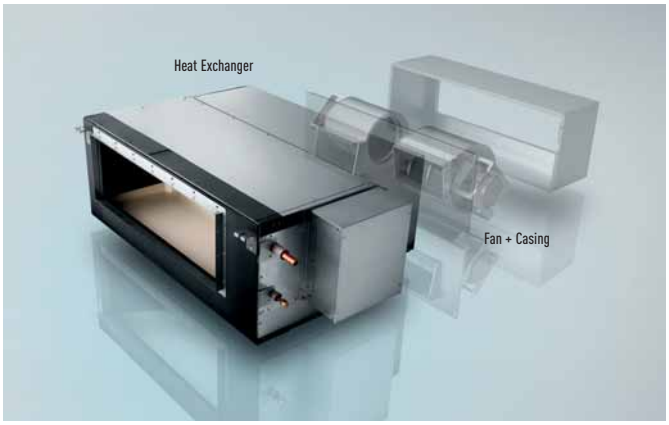

## Heat Exchanger with blue coated fins

Blue coated fins for corrosion resistance are equipped as standard in all R32 PACi and R410A Big PACi models.



## Easy piping work with split-able Hide Away indoor design

Part of heat exchanger and part of fan (fan + casing) can be separated while being installed.
The Hide Away indoor unit newly designed for easy reassemble totally fits in narrow space.




## Water Heat Exchanger compatibility

New PACi Water Heat Exchanger is available to connect with Big PACi systems. Offering various possibilities for hydronic application, heating, cooling and DHW.

## Cloud Control compatibility

Big PACi is compatible with Panasonic Cloud controls from wherever you are, 24/7/365.

**Comfort cloud for end-users, owners**

Panasonic

**Panasonic AC Smart Cloud for professionals**

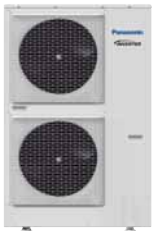
PANASONIC AC SMART CLOUD

# New Big PACi High Static Pressure Hide Away 20,00-25,00kW Inverter+ • R410A GAS





NEW 2019







**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified remote controller.

## Big PACi has been introduced with full renewal of its indoor unit, offering hydronic application by PACi Water Heat Exchanger

Big PACi is useful and cost saving solution for small and mid size of projects, can be offered also with VRF system.
Compact and light indoor body keeping the high efficiency is split-able design for easy piping work at limited narrow space.

## Technical focus

- Highly efficient with compact indoor body, -16kg lighter than conventional model (10HP)
- Split-able Hide Away indoor design for easy & flexible piping work
- Better partial load control with Panasonic compressor
- Bluefin anti-rust coating
- PACi Water Heat Exchanger compatible
- Panasonic cloud control compatible
- 0-10V demand control

| | | | Three Phase | |
|---|---|---|---|---|
| | | | **20,00kW** | **25,00kW** |
| **KIT** | | | **KIT-200PE3E5D** | **KIT-250PE3E5D** |
| **Remote controller** | | | **CZ-RTC5B** | **CZ-RTC5B** |
| Cooling capacity | Nominal (Min - Max) | kW | 19,50 (5,40 - 21,00) | 23,20 (6,30 - 27,00) |
| EER [1] | | W/W | 3,10 | 3,00 |
| **SEER [2]** | | | **5,11** | **4,81** |
| Pdesign | | kW | 19,50 | 23,20 |
| Input power cooling | | kW | 6,29 | 7,73 |
| Heating capacity | Nominal (Min - Max) | kW | 22,40 (5,60 - 25,00) | 28,00 (7,10 - 29,00) |
| COP [1] | | W/W | 3,60 | 3,39 |
| **SCOP [2]** | | | **3,57** | **3,60** |
| Pdesign at -10°C | | kW | 17,00 | 20,00 |
| Input power heating | | kW | 6,22 | 8,27 |
| **Indoor unit** | | | **S-200PE3E5B** | **S-250PE3E5B** |
| Power source | | V / ph / Hz | 220 - 230 - 240 / 1 / 50 | 220 - 230 - 240 / 1 / 50 |
| External static pressure at shipment (with booster cable) [3] | | Pa | 75 - 120 - 180 | 75 - 130 - 200 |
| Air volume | Hi / Med / Lo | m³/min | 72 / 63 / 53 | 84 / 72 / 59 |
| Sound pressure [4] | Hi / Med / Lo | dB(A) | 46 / 44 / 41 | 47 / 45 / 42 |
| Dimension | H x W x D | mm | 486 x 1456 x 916 | 486 x 1456 x 916 |
| Net weight | | kg | 86 | 88 |
| **Outdoor unit** | | | **U-200PE2E8A** | **U-250PE2E8A** |
| Power source | | V / ph / Hz | 380 - 400 - 415 / 3 / 50 | 380 - 400 - 415 / 3 / 50 |
| Recommended fuse | | A | 15 | 20 |
| Air volume | Cool / Heat | m³/min | 164 | 160 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 60 / 62 | 61 / 63 |
| Dimension [5] | H x W x D | mm | 1500 x 980 x 370 | 1500 x 980 x 370 |
| Net weight | | kg | 127 | 138 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 1/2 (12,70) |
| | Gas pipe | Inch (mm) | 1 (25,40) | 1 (25,40) |
| Pipe length range | | m | 5 ~ 120 | 5 ~ 120 |
| Elevation difference (in/out) [6] | | m | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 |
| Additional gas amount | | g/m | 50 | 80 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 5,60 / 11,6928 | 6,40 / 13,3632 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 |

| **Accessories** | |
|---|---|
| **CZ-RTC5B** | Wired remote controller with Econavi function and datanavi |
| **CZ-RWS3 + CZ-RWRC3** | Infrared remote controller |
| **CZ-RE2C2** | Simplified remote controller |

| **Accessories** | |
|---|---|
| **PAW-GRDSTD40** | Outdoor elevation platform 400 x 900 x 400mm |
| **CZ-CAPWFC1** | **NEW** Commercial WLAN Adaptor |

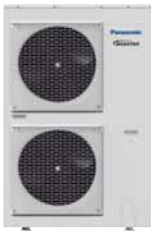
1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) Low external static pressure setting from factory. 4) The sound pressure of the units shows the value measured of the position 1,5 below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100mm for indoor unit or 70mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. * No filter included.* These models will be available in May 2019.

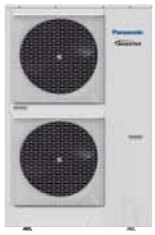



INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.


U-71PE1E5A
U-71PE1E8A


U-100PE1E5A
U-100PE1E8A
U-125PE1E5A
U-125PE1E8A
U-140PE1E5A
U-140PE1E8A


U-200PE2E8A
U-250PE2E8A

## PACi Elite Outdoor Units • R410A Gas

| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW | 20,00kW | 25,00kW |
|---|---|---|---|---|---|---|---|---|
| **Outdoor unit Single Phase** | | | **U-71PE1E5A** | **U-100PE1E5A** | **U-125PE1E5A** | **U-140PE1E5A** | **—** | **—** |
| **Outdoor unit Three Phase** | | | **U-71PE1E8A** | **U-100PE1E8A** | **U-125PE1E8A** | **U-140PE1E8A** | **U-200PE2E8A** | **U-250PE2E8A** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,50 - 8,00) | 10,00 (3,30 - 12,50) | 12,50 (3,30 - 14,00) | 14,00 (3,30 - 15,50) | 20,00 (6,00 - 22,40) | 25,00 (6,00 - 28,00) |
| Heating capacity | Nominal (Min - Max) | kW | 8,00 (2,00 - 9,00) | 11,20 (4,10 - 14,00) | 14,00 (4,10 - 16,00) | 16,00 (4,10 - 18,00) | 21,80 (6,00 - 22,40) | 28,00 (6,00 - 31,50) |
| Power source | Single Phase | V | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | — | — |
| | Three Phase | V | 380 / 415 | 380 / 415 | 380 / 415 | 380 / 415 | 380 / 415 | 380 / 415 |
| Connection indoor / outdoor | | mm² | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | 2 x 1,5 or 2,5 | — | — |
| Air volume | Cool / Heat | m³/min | 60 / 60 | 110 / 95 | 130 / 110 | 135 / 120 | 129 | 118 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 | 57 / 57 | 57 / 58 |
| Dimension | H x W x D | mm | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1500 x 980 x 370 | 1500 x 980 x 370 |
| Net weight | | kg | 69 | 98 | 98 | 98 | 118 | 128 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 1/2 (12,70) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 1 (25,40) | 1 (25,40) |
| Pipe length range | Min ~ Max | m | 5 ~ 50 | 5 ~ 75 | 5 ~ 75 | 5 ~ 75 | 5 ~ 100 | 5 ~ 100 |
| Elevation difference (in/out) | Max | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 | | |
| Additional gas amount | | g/m | 50 | 50 | 50 | 50 | | |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2,35 / 4,9068 | 3,40 / 7,0992 | 3,40 / 7,0992 | 3,40 / 7,0992 | 5,60 / 11,6928 | 6,40 / 13,3632 |
| Operating range | Cool Min ~ Max | °C | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 | -15 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +24 | -20 ~ +15 | -20 ~ +15 |


U-71PEY2E5


U-100PEY1E5
U-100PEY1E8
U-125PEY1E5
U-125PEY1E8


U-140PEY1E8

## PACi Standard Outdoor Units • R410A Gas

| | | | 7,10kW | 10,00kW | 12,50kW | 14,00kW |
|---|---|---|---|---|---|---|
| **Outdoor unit Single Phase** | | | **U-71PEY2E5** | **U-100PEY1E5** | **U-125PEY1E5** | **—** |
| **Outdoor unit Three Phase** | | | **—** | **U-100PEY1E8** | **U-125PEY1E8** | **U-140PEY1E8** |
| Cooling capacity | Nominal (Min - Max) | kW | 7,10 (2,00 - 7,70) | 10,00 (2,70 - 11,50) | 12,50 (3,80 - 13,50) | 14,00 (3,30 - 15,50) |
| Heating capacity | Nominal (Min - Max) | kW | 7,10 (1,80 - 8,10) | 10,00 (2,10 - 13,80) | 12,50 (3,40 - 15,00) | 14,00 (4,10 - 16,00) |
| Power source | Single Phase | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | — |
| | Three Phase | V | — | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 415 |
| Connection indoor / outdoor | | mm² | 2,5 | 4,0 | 6,0 | 2,5 |
| Air volume | Cool / Heat | m³/min | 44 / 41 | 110 / 95 | 80 / 73 | 135 / 120 |
| Sound pressure | Cool / Heat (Hi) | dB(A) | 49 / 49 | 52 / 52 | 56 / 56 | 54 / 53 |
| Dimension | H x W x D | mm | 619 x 799 x 299 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 40 | 73 | 85 | 98 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Pipe length range | Min ~ Max | m | 3 ~ 40 | 5 ~ 50 | 5 ~ 50 | 5 ~ 50 |
| Elevation difference (in/out) | Max | m | 30 | 30 | 30 | 30 |
| Pipe length for additional gas | | m | 30 | 30 | 30 | 30 |
| Additional gas amount | | g/m | 40 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 1,95 / 4,0716 | 2,60 / 5,4288 | 3,20 / 6,6816 | 3,40 / 7,0992 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |







| Wall | Indoor | Cooling capacity | Heating capacity | Dimension | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PK2E5B | 3,60 | 4,20 | 302 x 1120 x 236 | 35/31/27 | 11,00/9,50/7,50 |
| 4,50kW | S-45PK2E5B | 4,50 | 5,20 | 302 x 1120 x 236 | 38/34/30 | 12,00/10,50/8,50 |
| 5,00kW | S-50PK2E5B | 5,00 | 5,60 | 302 x 1120 x 236 | 40/36/32 | 14,00/12,00/10,50 |
| 6,00kW | S-60PK2E5B | 6,00 | 7,00 | 302 x 1120 x 236 | 47/44/40 | 18,00/14,50/11,50 |
| 7,10kW | S-71PK2E5B | 7,10 | 8,00 | 302 x 1120 x 236 | 47/44/40 | 18,00/14,50/11,50 |
| 10,00kW | S-100PK2E5B | 10,00 | 11,20 | 302 x 1120 x 236 | 47/44/40 | 19,00/16,50/13,00 |

| 4 Way 60x60 Cassette | Indoor (Panels CZ-KPY3AW / CZ-KPY3BW) | Cooling capacity | Heating capacity | Dimension: Indoor / CZ-KPY3AW / CZ-KPY3BW | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PY2E5B | 3,60 | 4,20 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 36/32/26 | 9,70/9,90 |
| 4,50kW | S-45PY2E5B | 4,50 | 5,20 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 38/34/28 | 10,00/10,30 |
| 5,00kW | S-50PY2E5B | 5,00 | 5,60 | 288 x 583 x 583 / 31 x 700 x 700 / 31 x 625 x 625 | 40/37/33 | 11,10/11,10 |

| 4 Way 90x90 Cassette | Indoor (Panels CZ-KPU3W / CZ-KPU3AW) | Cooling capacity | Heating capacity | Dimension Indoor | Dimension Panel | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | mm | dB(A) | m³/min |
| 3,60kW | S-36PU2E5B | 3,60 | 4,20 | 256 x 840 x 840 | 33,5 x 950 x 950 | 30/28/27 | 14,50/13,00/11,50 |
| 4,50kW | S-45PU2E5B | 4,50 | 5,20 | 256 x 840 x 840 | 33,5 x 950 x 950 | 31/28/27 | 15,50/13,00/11,50 |
| 5,00kW | S-50PU2E5B | 5,00 | 5,60 | 256 x 840 x 840 | 33,5 x 950 x 950 | 32/29/27 | 16,50/13,50/11,50 |
| 6,00kW | S-60PU2E5B | 6,00 | 7,00 | 256 x 840 x 840 | 33,5 x 950 x 950 | 38/31/28 | 21,00/16,00/13,00 |
| 7,10kW | S-71PU2E5B | 7,10 | 8,00 | 256 x 840 x 840 | 33,5 x 950 x 950 | 37/31/28 | 22,00/16,00/13,00 |
| 10,00kW | S-100PU2E5B | 10,00 | 11,20 | 319 x 840 x 840 | 33,5 x 950 x 950 | 45/38/32 | 36,00/26,00/18,00 |
| 12,50kW | S-125PU2E5B | 12,50 | 14,00 | 319 x 840 x 840 | 33,5 x 950 x 950 | 46/39/33 | 37,00/27,00/19,00 |
| 14,00kW | S-140PU2E5B | 14,00 | 14,00 | 319 x 840 x 840 | 33,5 x 950 x 950 | 47/40/34 | 38,00/29,00/20,00 |

| Ceiling | Indoor | Cooling capacity | Heating capacity | Dimension | Sound pressure | Air volume |
|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | dB(A) | m³/min |
| 3,60kW | S-36PT2E5B | 3,60 | 4,20 | 235 x 960 x 690 | 35/32/30 | 14,00/12,00/10,50 |
| 4,50kW | S-45PT2E5B | 4,50 | 5,20 | 235 x 960 x 690 | 38/33/30 | 15,00/12,50/10,50 |
| 5,00kW | S-50PT2E5B | 5,00 | 5,60 | 235 x 960 x 690 | 38/33/30 | 15,00/12,50/10,50 |
| 6,00kW | S-60PT2E5B | 6,00 | 7,00 | 235 x 1275 x 690 | 39/36/33 | 20,00/17,00/14,50 |
| 7,10kW | S-71PT2E5B | 7,10 | 8,00 | 235 x 1275 x 690 | 39/36/33 | 21,00/18,00/15,50 |
| 10,00kW | S-100PT2E5B | 10,00 | 11,20 | 235 x 1590 x 690 | 42/38/35 | 30,00/25,00/23,00 |
| 12,50kW | S-125PT2E5B | 12,50 | 14,00 | 235 x 1590 x 690 | 45/40/37 | 34,00/28,00/24,00 |
| 14,00kW | S-140PT2E5B | 14,00 | 14,00 | 235 x 1590 x 690 | 47/41/37 | 35,00/29,00/25,00 |

| High Static Pressure Hide Away | Indoor | Cooling capacity | Heating capacity | Dimension | External static pressure | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | Pa | dB(A) | m³/min |
| 3,60kW | S-36PF1E5B | 3,60 | 4,20 | 290 x 800 x 700 | 150/70/10 | 33/29/25 | 14,00/13,00/10,00 |
| 4,50kW | S-45PF1E5B | 4,50 | 5,20 | 290 x 800 x 700 | 150/70/10 | 34/30/26 | 14,00/13,00/10,00 |
| 5,00kW | S-50PF1E5B | 5,00 | 5,60 | 290 x 800 x 700 | 150/70/10 | 34/30/26 | 16,00/15,00/12,00 |
| 6,00kW | S-60PF1E5B | 6,00 | 7,00 | 290 x 1000 x 700 | 150/70/10 | 35/32/26 | 21,00/19,00/15,00 |
| 7,10kW | S-71PF1E5B | 7,10 | 8,00 | 290 x 1000 x 700 | 150/70/10 | 35/32/26 | 21,00/19,00/15,00 |
| 10,00kW | S-100PF1E5B | 10,00 | 11,20 | 290 x 1400 x 700 | 150/100/10 | 38/34/31 | 32,00/26,00/21,00 |
| 12,50kW | S-125PF1E5B | 12,50 | 14,00 | 290 x 1400 x 700 | 150/100/10 | 39/35/32 | 34,00/29,00/23,00 |
| 14,00kW | S-140PF1E5B | 14,00 | 14,00 | 290 x 1400 x 700 | 150/100/10 | 40/36/33 | 36,00/32,00/25,00 |

| Low Static Pressure Hide Away | Indoor | Cooling capacity | Heating capacity | Dimension | External static pressure | Sound pressure | Air volume |
|---|---|---|---|---|---|---|---|
| | | | | H x W x D | Hi / Med / Lo | Hi / Med / Lo | Hi / Med / Lo |
| | | kW | kW | mm | Pa | dB(A) | m³/min |
| 3,60kW | S-36PN1E5B | 3,60 | 4,20 | 250 x 780 x 650 | 80/50/10 | 40/38/35 | 14,00/12,00/10,00 |
| 4,50kW | S-45PN1E5B | 4,50 | 5,20 | 250 x 780 x 650 | 80/50/10 | 41/39/35 | 16,00/13,00/11,00 |
| 5,00kW | S-50PN1E5B | 5,00 | 5,60 | 250 x 780 x 650 | 80/50/10 | 41/39/35 | 16,00/13,00/11,00 |
| 6,00kW | S-60PN1E5B | 6,00 | 7,00 | 250 x 1000 x 650 | 80/50/10 | 43/41/36 | 22,00/20,00/16,00 |
| 7,10kW | S-71PN1E5B | 7,10 | 8,00 | 250 x 1000 x 650 | 80/50/10 | 43/41/36 | 22,00/20,00/16,00 |
| 10,00kW | S-100PN1E5B | 10,00 | 11,20 | 250 x 1200 x 650 | 80/50/10 | 44/42/37 | 36,00/33,00/26,00 |
| 12,50kW | S-125PN1E5B | 12,50 | 14,00 | 250 x 1200 x 650 | 80/50/10 | 46/44/39 | 38,00/35,00/28,00 |
| 14,00kW | S-140PN1E5B | 14,00 | 14,00 | 250 x 1200 x 650 | 80/50/10 | 46/44/39 | 40,00/37,00/30,00 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PANASONIC VENTILATION SOLUTIONS



## Panasonic ventilation solutions for maximum savings and easy integration.

### AHU Kit connects PACi outdoor units to Air Handling Units system [1)]



AHU Kit combines air conditioning and fresh air in just one solution.
The Panasonic AHU Kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.
Besides the advantages in terms of indoor air quality, air conditioning offers also an energy saving potential. For example, while uncontrolled ventilation through open windows leads to large amounts of heat being lost to the outside during the heating season or gained from the outside during the cooling season, air conditioning systems provide possibilities to utilize the extra "free" energy in heat recovery modules so that overall operating costs will be reduced.
The larger area of the comfort range, the better the energy saving opportunities.
Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.
Heat exchanger, Fan & Fan motor to be mounted in AHU Kit shall be provided in the field.
Contents of kit: Control for PCB and sensors.

1) Compatible with R32 models. Special setting is required.

### Air Curtain with DX Coil

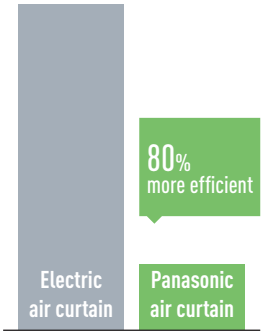
**Highly efficient heating effect**



The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces.

The Panasonic range of air curtains is designed for smooth operation and efficient performance. Air curtains produce a continuous stream of air blown from the top to the bottom of an open doorway and create a barrier that people and products can flow across, but air can't. Designed to improve energy efficiency, minimise heat loss from a building, and to allow retailers to keep doors open to encourage customers, our Air Curtains are suitable for connection to both VRF and PACi Systems.

**Heating capacity comparison: Electrical air curtain / Panasonic air curtain**




* With the U-100PZH2E5 on the PAW-20PAIRC-LS. Calculation method: Taking as consideration SCOP of the Panasonic combination of 6.0. If 100 is the energy needed for a air curtain, Panasonic Air curtain will need 1/(1-6)*100=20.

## Electric Air Curtain

### 1 Newly designed to maximize performance

High Air volume upgraded 145% compared to conventional model (in the case of FY-3009U1).

### 2 Comprehensive product line up

1,5m wide model added in the line up.



### 3 Easier installation & maintenance

Simple structure for easy installation & maintenance.



| | | | FY-3009U1 | FY-3012U1 | FY-3015U1 |
|---|---|---|---|---|---|
| Width | | mm | 900 | 1200 | 1500 |
| Voltage | | V | 220 | 220 | 220 |
| Air volume | Hi / Lo | m³/h | 1100/920 | 1400/1270 | 2000/1800 |
| Consumption | Hi / Lo | W | 76/70 | 94/85 | 131/110 |
| Current | Hi / Lo | A | 0,35/0,32 | 0,43/0,40 | 0,59/0,50 |
| Air speed | Hi / Lo | m/s | 10,50/8,50 | 9,50/8,00 | 10,50/9,50 |
| Dimension | H x W x D | mm | 900 x 231,5 x 212 | 1200 x 231,5 x 212 | 1500 x 231,5 x 212 |
| Weight | | kg | 12,0 | 14,5 | 18,0 |
| Sound pressure | | dB(A) | 48,5/45,0 | 48,5/44,5 | 51,5/48,0 |

# Air Handling Unit Kit 5,00-25,00kW for PACi. Compatible with R32 or R410A outdoor units

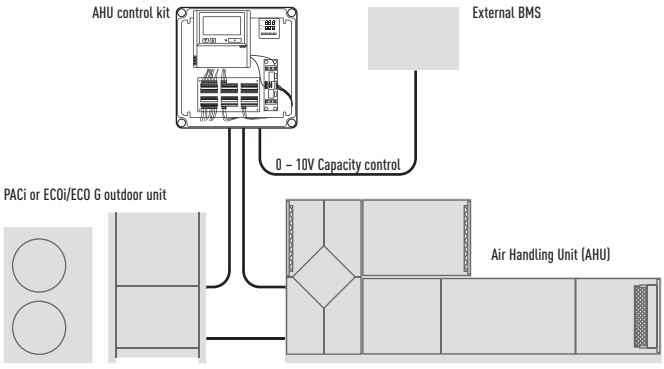




## Panasonic AHU Kit, 5,00-25,00kW connected to PACi outdoor unit

The Air Handling Unit Kit has been developed to better meet customer demand: IP 65 Box in order to be installed outside, 0-10V demand control* and easy control by BMS

* Only available with PACi Elite, from 5kW to 25kW.




Demand control on the outdoor unit managed by external 0–10 V signal.

**Control option 1: PAW-280PAH2L**
- The system's control is simple: control of actual suction temperature vs. set point
- Control works in the same way as that of any indoor unit
- Fan signal issued by the PCB (OFF while defrosting, for instance)

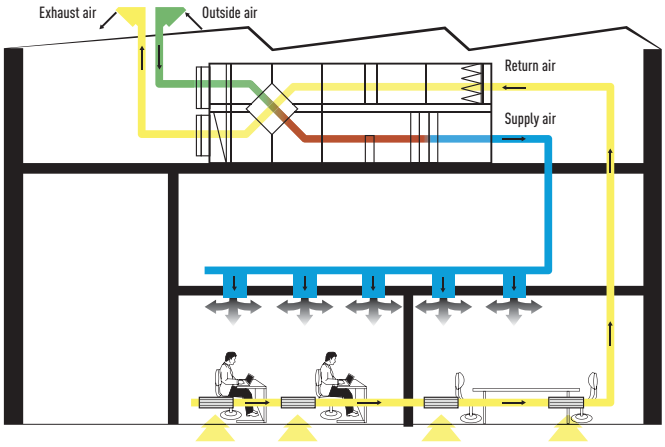
**Control option 2: PAW-280PAH2**
- System control by probe located at air intake. Sensor works as a 0–10V control thermostat which manages the set point temperature. Control to prevent cold draughts.
- All signals as per standard

**Control option 3: PAW-280PAH2**
- System control by external environment probe. Sensor works as a 0–10V control thermostat which manages the set point temperature. Enhances efficiency by adjusting capacity to the ambient temperature and enhances comfort as well.
- All signals as per standard

**Control option 4: PAW-280PAH2**
- System control by a 0–10V control working from an external BMS that manages the set point for the temperature or the capacity. Enhances efficiency by adjusting capacity and enhances comfort as well.
- All signals as per standard

## Main components of mechanical ventilation systems

The main components of a mechanical ventilation system are the following: Air Handling Unit (AHU), air ducts and air distribution elements.




## 0-10V control

With the 0-10 v demand control the capacity of the outdoor unit can be controlled by 20 steps.

| Input Voltage* (V) | 0 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 | 4,5 | 5,0 | 5,5 | 6,0 | 6,5 | 7,0 | 7,5 | 8,0 | 8,5 | 9,0 | 9,5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Demand (% of nominal current) | No cut [1] | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | No limit / Full capacity [2] |
| Indoor unit start / stop | Stop [1] | Start | | | | | | | | | | | | | | | | | |

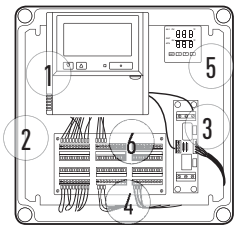
1) No cut/Stop: AHU system / indoor unit is completely switched OFF.
2) No Limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).

AHU Kit connects PACi outdoor units to Air Handling Units system.
The Panasonic AHU Kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.
Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.

## 3 types of AHU Kit: Deluxe, Medium and Light.

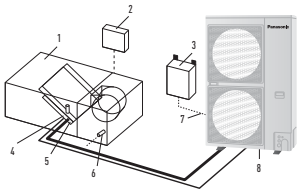
| Model Code | IP 65 | 0-10V demand control* | Outdoor temperature shift compensation. Cold draft prevention |
|---|---|---|---|
| PAW-280PAH2 | Yes | Yes | Yes |
| PAW-280PAH2M | Yes | Yes | No |
| PAW-280PAH2L | Yes | No | No |

* With CZ-CAPBC2.




1. Remote control CZ-RTC4
2. New plastic IP 65 Box
3. PAW-T10 PCB for Dry Contact
4. 0-10V demand control PCB
5. Intelligent thermostat for:
   - Cold draft prevention
   - Outdoor temperature shift compensation
6. Terminal base for sensors and power supply

**System & regulations. System overview**
1. AHU Kit equipment (Field supplied)
2. AHU Kit system controller (Field supplied)
3. AHU Kit controller box (with control PCB)
4. Thermistor for Gas pipe (E2)
5. Thermistor for Liquid pipe (E1)
6. Thermistor for Suction air
7. Inter-unit wiring
8. Outdoor unit




**AHU Connection Kit**


PCB, Power trans, Terminal block


Thermistor x2 (Refrigerant: E1, E2)


Thermistor (Air: TA; 1 sensor)


Standard wired remote controller.

## Optional parts: Following functions are available by using different control accessories:

**CZ-RTC4 Timer remote controller.**
- Operation-ON/OFF
- Mode select
- Temperature setting

* Fan operation signal can be taken from the PCB.

**PAW-OCT, DC12 V outlet. OPTION terminal.**
- Output signal= Cooling/Heating/Fan status
- Defrost
- Thermostat-ON

**CZ-CAPBC2 Mini seri-para I/O unit (advanced version only).**
- Easy integration in external AHU control systems and BMS
- Demand control: 40 to 115 % (5 % steps) of nominal current by 0–10 V input signal*
- Target temperature setting by 0–10 V or 0–140 Ω input signal*
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output
- Thermostat ON/OFF control

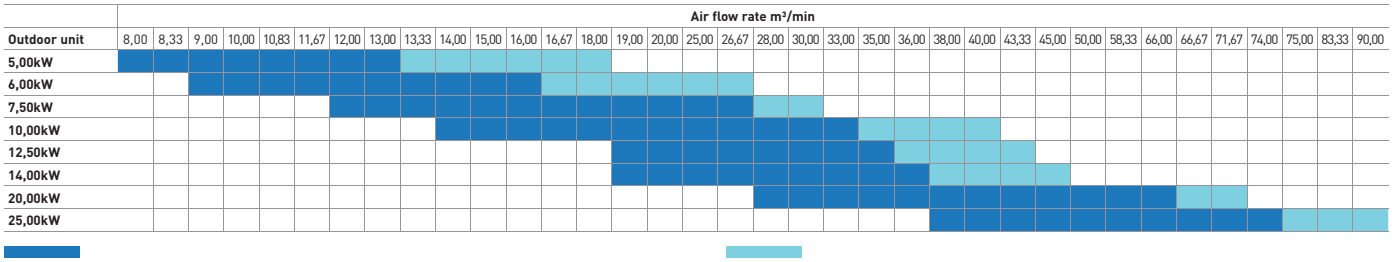
* Demand control by external BMS cannot be combined with the demand control or target temperature setting accomplished by the thermostat. However, if simultaneous demand control and target temperature setting is needed, this can only be achieved by using a second (optional) CZ-CAPBC2 interface.

**CZ-T10 terminal / PAW-T10 PCB to connect to T10 connector.**
- A Dry contact PCB has been developed to easily control the unit
- Input signal operation ON/OFF
- Remote control prohibition
- Output signal Operation ON status maximum 230 V 5 A (NO/NC)
- Output signal alarm status max. 230 V 5 A (NO/NC)
- Alarm output (by DC12V)
- Additional available contacts:
  - External humidifier control (ON/OFF) 230 VAC 3 A
  - External fan control (ON/OFF) 12V DC
  - External filter status signal potential free
  - External float switch signal potential free
  - External leakage detection sensor or TH. OFF contact potential free (possible usage for external blow out temperature control)

| AHU PACi Elite | Cooling capacity | Heating capacity | Dimensions | Piping length | Elevation difference (in/out) |
|---|---|---|---|---|---|
| | Nominal | Nominal | H x W x D | Min / Max | Max |
| | kW | kW | mm | m | m |
| PAW-280PAH2 | 6,00 / 25,00 | 7,00 / 28,00 | 404x425x78 | 5 / 30* | 10 |
| PAW-280PAH2+PAW-280PAH2 | 50,00 | 56,00 | 404x425x78 | 5 / 30* | 10 |

* For U-200PE2E8A and U-250PE2E8A.

| AHU connection kit / System combination | | Air volume | Dimensions | Piping length | Elevation difference (in/out) | Piping connections | |
|---|---|---|---|---|---|---|---|
| | | Min / Max | H x W x D | Min / Max | Max | Liquid pipe | Gas pipe |
| **Outdoor unit capacity** | **AHU** | m³/min | mm | m | m | Inch (mm) | Inch (mm) |
| **5,00kW** | PAW-280PAH2 | 8,00 / 13,00 | 404x425x78 | 5/30 | 10 | 1/4 (6,35) | 1/2 (12,70) |
| **6,00kW** | PAW-280PAH2 | 9,00 / 16,00 | 404x425x78 | 5/30 | 10 | 3/8 (9,62) | 5/8 (15,88) |
| **7,50kW** | PAW-280PAH2 | 12,00 / 25,00 | 404x425x78 | 5/30 | 10 | 3/8 (9,62) | 5/8 (15,88) |
| **10,00kW** | PAW-280PAH2 | 14,00 / 33,00 | 404x425x78 | 5/30 | 10 | 3/8 (9,62) | 5/8 (15,88) |
| **12,50kW** | PAW-280PAH2 | 19,00 / 35,00 | 404x425x78 | 5/30 | 10 | 3/8 (9,62) | 5/8 (15,88) |
| **14,00kW** | PAW-280PAH2 | 19,00 / 35,00 | 404x425x78 | 5/30 | 10 | 3/8 (9,62) | 5/8 (15,88) |
| **20,00kW** | PAW-280PAH2 | 28,00 / 66,00 | 404x425x78 | 5/70 | 10 | 3/8 (9,62) | 1 (25,40) |
| **25,00kW** | PAW-280PAH2 | 38,00 / 74,00 | 404x425x78 | 5/70 | 10 | 1/2 (12,70) | 1 (25,40) |




Standard range of air flow rate under standard conditions (air intake temperature in cooling mode from 18 to 32°C DB).

Extended range of air flow rate under special conditions (air intake temperature in cooling mode from 18 to 30°C DB).

# New Air Curtain with DX Coil, connected to the VRF or PACi Systems. Compatible with R32 or R410A outdoor units

NEW 2019



## Highly efficient heating effect

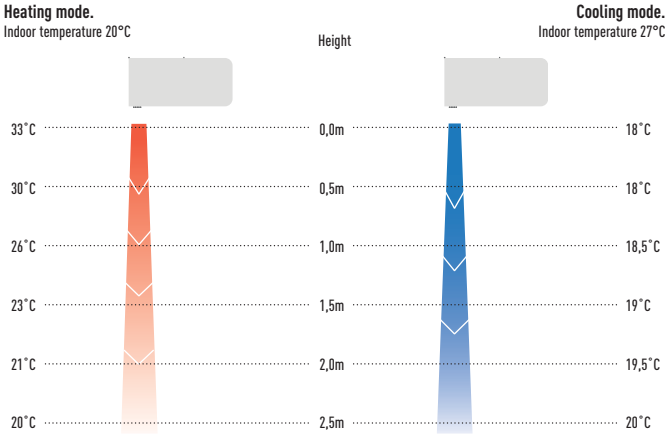
The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces. Available in different lengths to suit requirements between 1 and 2,5m, both air curtains have outlet grilles that can be adjusted to five different positions. The HS model can be installed up to a height of 3,0m with the LS model up to 2,7m. The outlet grilles can be easily adjusted into five positions to suit different installation requirements and the air filter can be accessed without the need for specialist tools.

- High performance with EC fan motor (40% lower running costs compared to a standard AC fan motor)
- Easy Cleaning and Servicing
- Can be connected to either Panasonic VRF or PACi systems
- Built-in drain for cooling operation
- HS and LS models can be controlled via Panasonic's range of remote internet controls

The new HS and LS models are ideal for connection to a ECOi or PACi system. With simple "plug and play" installation, both are fitted with an EC fan motor for a smooth operation and efficient performance. This fan guarantees 40% lower running cost than with a standard AC fan motor. Air curtains run approximately 12 hours per day at shops, and efficient performance contributes to energy savings.

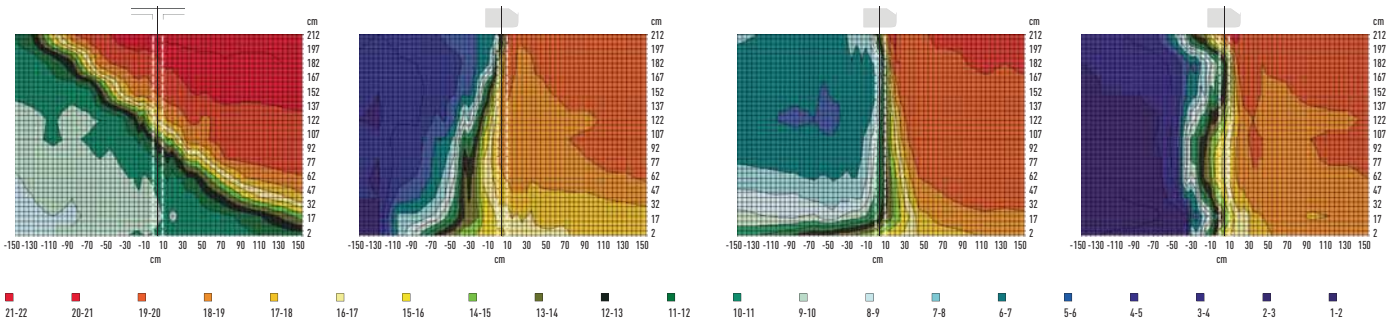
## Intelligent Operation

Our air curtains combine airflow and heating / cooling technology to ensure optimum comfort and energy efficiency whilst also creating an effective barrier between indoor and outdoor environments. Design and installation is key to achieving the correct height / temperature settings to achieve optimum performance. Our air curtains are designed to answer the demands of the retail, commercial and industrial markets.




## Optimised airflow velocity

1. Energy losses, no air curtain installed
2. Too low velocity air curtain – air curtain not efficient
3. Optimum results with the Frico air curtain connected to Panasonic VRF
4. Too high velocity air curtain – considerable turbulence, energy lost to the outside, air curtain not efficient




**Opening without air curtain.**
In an unprotected opening the cold air flows out and the cold storage room becomes much too warm.

**Opening with air curtain, wrong angle.**
If the angle is too small the hot air is blown into the cold storage room.

**Opening with air curtain, too high speed.**
Excessive speed creates turbulence, which causes energy loss and increases the cold storage temperature.

**Opening with correctly adjusted air curtain.**
With a correctly set air curtain unit there is a sharp separation between the different temperature zones.

High efficiency air curtain connected to your PACi or VRF installation. EC Fan motor for a smooth operation and an efficient performance. 2 types of air flow available: LS and HS! Easy installation, regulation, cleaning, service

## Technical focus

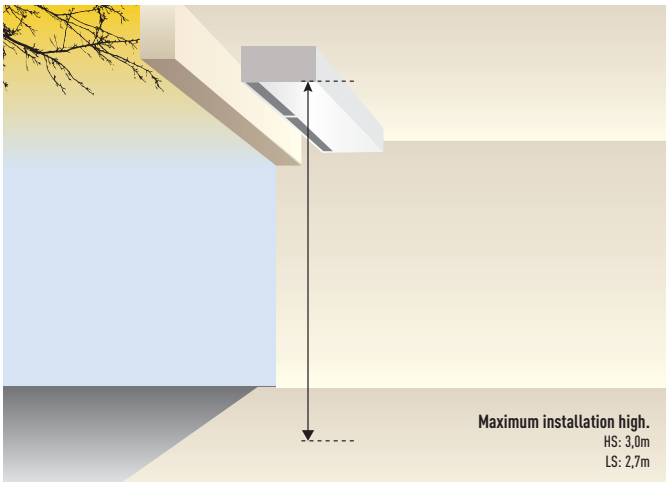
- Save up to 40% energy costs by use of the integrated EC fan technology (higher efficiency than conventional AC fan, soft start and longer motor duration)
- 4 length of air curtain LS and HS are available 1,0, 1,5, 2,0 and 2,5m
- Installation height up to 3,0m
- Outlet grilles can be adjusted in five positions, to suite different indoor and installation requirements
- Control with Panasonic remote control systems (optional)
- Direct integration to BMS by optional Panasonic interfaces
- Trip dray included in all DX air curtain steps

## Features

**Comfort:** Easy redirection of air flow by means of manual deflector.
**Ease of use:** Speed selector (high and low) on the unit itself.
**Easy installation and maintenance:** Easy installation. Compact dimensions improve installation and positioning. Easy cleaning of grid without opening of the unit.

## How does it work?

Stale air from the room is taken in and ejected near the door. This creates a 'roll of air' that shields the door area, mixing with the colder incoming air. It then turns away from the door, back into the room and toward the intake screen, where it is partly drawn in again. This flow of air helps to create a barrier for heat loss yet at the same time refreshes room air




| **Outdoor unit** | | | **7,10kW** | **10,00kW** | **14,00kW** | **20,00kW** |
|---|---|---|---|---|---|---|
| **Air outlet height 2,7m** | | | **PAW-10PAIRC-LS** | **PAW-15PAIRC-LS** | **PAW-20PAIRC-LS** | **PAW-25PAIRC-LS** |
| Air volume | High / Low | m³/h | 1800/1000 | 2700/1400 | 3600/1900 | 4500/2400 |
| Cooling capacity [1] | Max | kW | 6,10 | 9,70 | 13,00 | 17,00 |
| Heating capacity [2] | Max | kW | 7,90 | 12,00 | 15,00 | 19,00 |
| Heat Exchanger | Volume | L | 1,67 | 2,85 | 3,94 | 5,03 |
| Piping connections | Liquid pipe / Gas pipe | mm | 16,6/15,0 | 16,6/22,0 | 16,6/22,0 | 16,6/22,0 |
| Electric consumption fan | 230V / 50Hz | kW | 0,30 | 0,50 | 0,60 | 0,80 |
| Fan type | | | EC | EC | EC | EC |
| Current | 230V / 50Hz | A | 2,10 | 3,10 | 4,10 | 5,10 |
| Sound Pressure [3] | | dB(A) | 49/65 | 48/66 | 50/67 | 51/69 |
| Dimension | H x W x D | mm | 1000 x 260 x 460 | 1500 x 260 x 460 | 2000 x 260 x 460 | 2500 x 260 x 460 |
| Weight | | kg | 50 | 65 | 80 | 95 |
| Door width | | m | 1,0 | 1,5 | 2,0 | 2,5 |
| Refrigerant | | | R32/R410A | R32/R410A | R32/R410A | R32/R410A |

| **Outdoor unit** | | | **10,00kW** | **14,00kW** | **20,00kW** | **25,00kW** |
|---|---|---|---|---|---|---|
| **Air outlet height 3,0m** | | | **PAW-10PAIRC-HS** | **PAW-15PAIRC-HS** | **PAW-20PAIRC-HS** | **PAW-25PAIRC-HS** |
| Air volume | High / Low | m³/h | 2700/1450 | 3600/1900 | 5400/2900 | 6300/3400 |
| Cooling capacity [1] | Max | kW | 9,10 | 13,00 | 19,50 | 23,70 |
| Heating capacity [2] | Max | kW | 11,80 | 15,80 | 23,60 | 27,60 |
| Heat Exchanger | Volume | L | 1,67 | 2,85 | 3,94 | 5,12 |
| Piping connections | Liquid pipe / Gas pipe | mm | 16,6/15,0 | 16,6/22,0 | 16,6/22,0 | 16,6/22,0 |
| Electric consumption fan | 230V / 50Hz | kW | 0,75 | 1,00 | 1,50 | 1,75 |
| Fan type | | | EC | EC | EC | EC |
| Current | 230V / 50Hz | A | 4,10 | 5,50 | 8,20 | 9,60 |
| Sound Pressure [3] | | dB(A) | 50/66 | 49/67 | 51/68 | 52/68 |
| Dimension | H x W x D | mm | 1000 x 260 x 460 | 1500 x 260 x 460 | 2000 x 260 x 460 | 2500 x 260 x 460 |
| Weight | | kg | 55 | 65 | 85 | 110 |
| Door width | | m | 1,0 | 1,5 | 2,0 | 2,5 |
| Refrigerant | | | R32/R410A | R32/R410A | R32/R410A | R32/R410A |

1) Cooling capacity DX Coil, air temperature in/out +27/+18°C, R32 and R410. 2) Heating capacity condenser, air temperature in/out +20/+33°C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary.
3) Measured in distance up to 5,0m, direction factor 2, absorbing surfaces 200m², Min / Max air volume.

GREEN TECH BMS CONNECTIVITY

Rated Conditions Cooling Outdoor +35°C DB Indoor +27°C DB/+19°C WB, Discharge temperature 16°C. All combinations under rated conditions: Heating Outdoor +7°C DB/+6°C WB Indoor +20°C DB. In case of lower outdoor temperatures a higher capacity outdoor unit model may be necessary.
Specifications subject to change without notice. For detailed information about ErP, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# PANASONIC PACi ELITE CAN COOL ROOMS DOWN TO 8°C

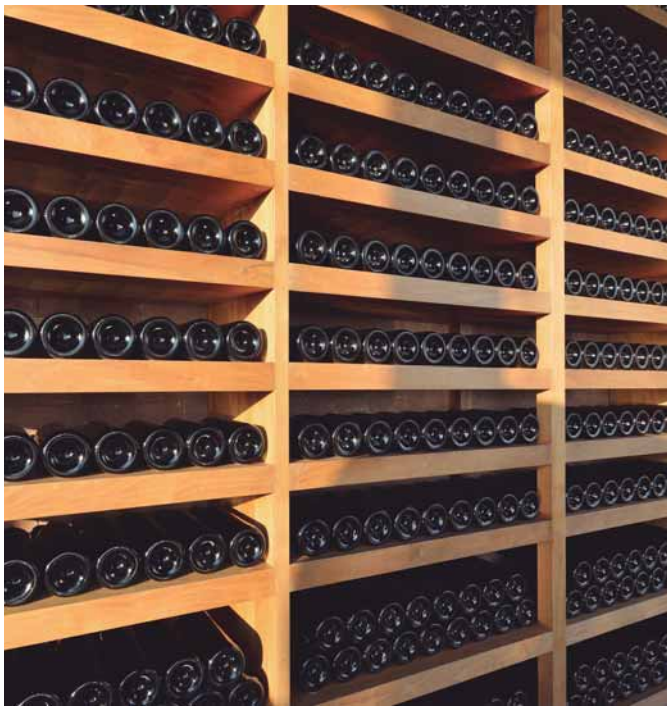
Special application such as wine cellars.



## Solutions for cold rooms. Set the room temperature to 8°C

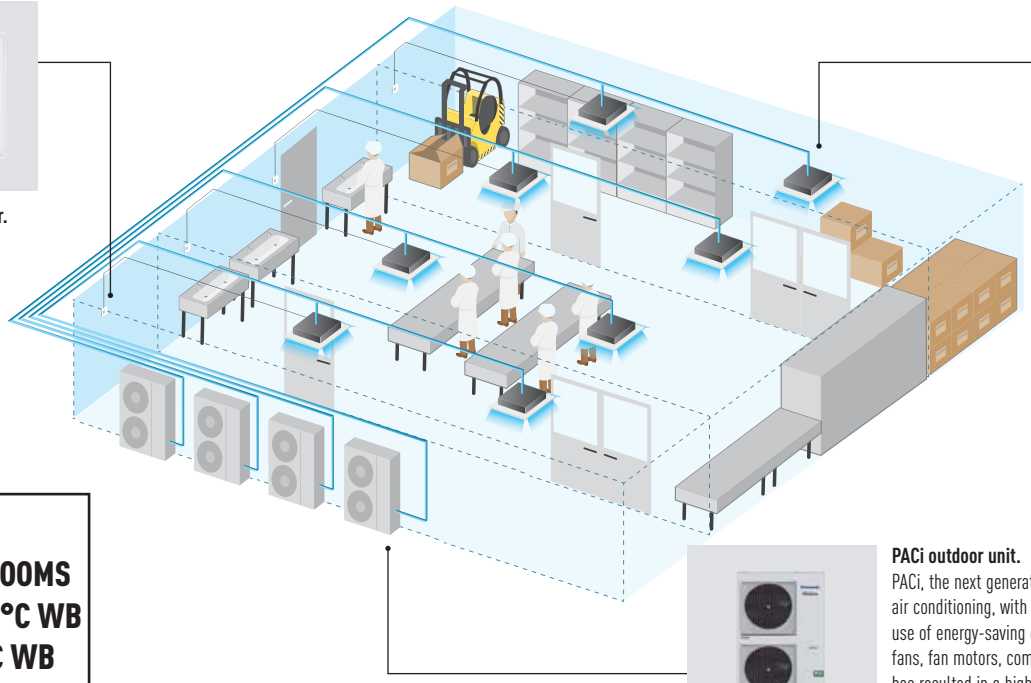
There is a complete range, from 3,60 to 22,00kW. This unique solution is perfect for:
Wine cellars, ice cream factories, flower shops, supermarkets, grain stores, food storage, food processing, food distribution, lunchrooms, vegetable processing... Just like all the indoor units in the PACi range, these units can be monitored via the Internet, generating an alarm if there is a breakdown.







**Alternative controller.**
Wired remote control.
CZ-RTC5B





**Wide range of indoor units.**
To meet your company's needs

**COOLING ROOMS BETWEEN 8°C WB AND 24°C WB**

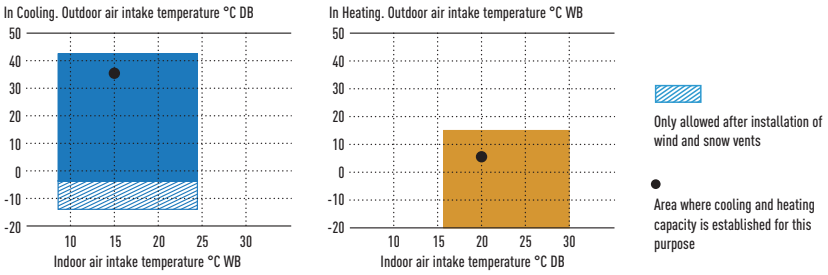


**PACi outdoor unit.**
PACi, the next generation of developed commercial air conditioning, with an energy-saving concept. The use of energy-saving designs in the construction of fans, fan motors, compressors and heat exchangers has resulted in a high COP value.

## Wine cellars and special low temperature rooms

One of the main features of the PACi series is the possibility of adjusting the product for special applications, not just for regular heating and cooling applications. The purpose of this product information is to explain in detail these special applications that need a cooling operation to maintain the room temperature at +8 ~ +24°C WB (or +10 ~ +30°C DB). In order to do this in terms of enthalpy, the indoor unit needs to be overdimensioned and certain parameters need to be adjustable.

**Temperature range – temperature range for wine cellar**




| Temperature range for wine cellar | | |
|---|---|---|
| | Indoor | Outdoor |
| Cooling operation | +8 ~ +24°C WB | -5 (-15) ~ 43°C DB |

## Examples of installations:

To avoid the growth of bacteria and to increase food safety: Wine cellars, ice cream factories, flower shops, broiler factories, pantries in hotels, supermarkets, grain stores, food storage, food processing, food distribution, lunchrooms, salad processing ...

| Application | Single | | | | | | Twin | | |
|---|---|---|---|---|---|---|---|---|---|
| **Cooling capacity** | 3,50kW | 4,90kW | 5,80kW | 6,90kW | 9,30kW | 11,60kW | 13,60kW | 18,50kW | 23,20kW |
| | U-36PZH2E5 | U-50PZH2E5 | U-60PZH2E5 | U-71PZH2E5<br>U-71PZH2E8 | U-100PZH2E5<br>U-100PZH2E8 | U-125PZH2E5<br>U-125PZH2E8 | U-140PZH2E5<br>U-140PZH2E8 | U-200PZH2E8 | U-250PZH2E8 |
| **PACi outdoor units** |  |  |  |  |  |  |  |  |  |
| **PACi indoor units** | | | | | | | | | |
|  | S-60PU2E5B | S-71PU2E5B | S-100PU2E5B | S-125PU2E5B | S-140PU2E5B | S-140PU2E5B | S-100PU2E5B +<br>S-100PU2E5B | S-125PU2E5B +<br>S-125PU2E5B | S-140PU2E5B +<br>S-140PU2E5B |
|  | S-60PT2E5B | S-71PT2E5B | S-100PT2E5B | S-125PT2E5B | S-140PT2E5B | S-140PT2E5B | S-100PT2E5B +<br>S-100PT2E5B | S-125PT2E5B +<br>S-125PT2E5B | S-140PT2E5B +<br>S-140PT2E5B |
|  | S-60PF1E5B | S-71PF1E5B | S-100PF1E5B | S-125PF1E5B | S-140PF1E5B | S-140PF1E5B | S-100PF1E5B +<br>S-100PF1E5B | S-125PF1E5B +<br>S-125PF1E5B | S-140PF1E5B +<br>S-140PF1E5B |
|  | S-60PN1E5B | S-71PN1E5B | S-100PN1E5B | S-125PN1E5B | S-140PN1E5B | S-140PN1E5B | S-100PN1E5B +<br>S-100PN1E5B | S-125PN1E5B +<br>S-125PN1E5B | S-140PN1E5B +<br>S-140PN1E5B |

* Above combinations require a special field setting. Please contact authorized Panasonic dealer. ** R410 models (U-PE2E5A,U-PE2E8A) are also compatible.

# R22 RENEWAL.
# FAST, EASY TO INSTALL AND COST EFFECTIVE



## An important drive to further reduce the potential damage to our ozone

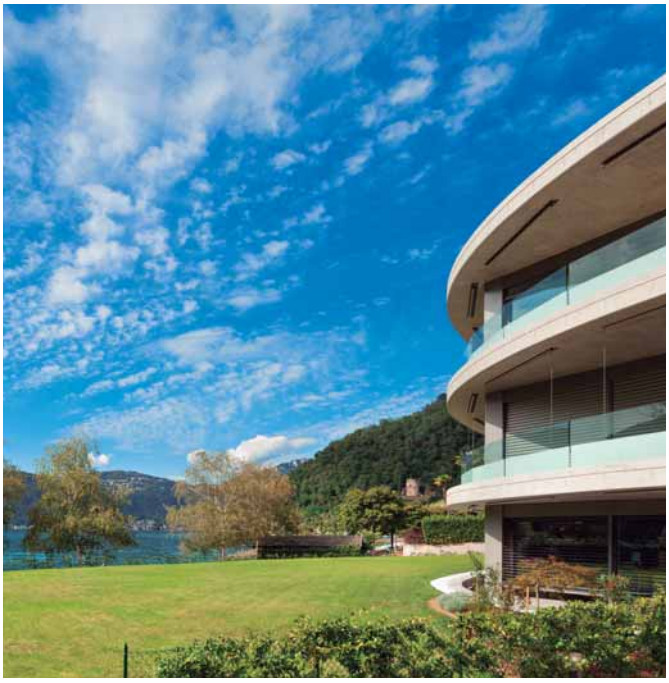
It is often said that legislation is ruling our lives but sometimes it is there to help save lives. R22 phase out can be described as one of these and from Jan 1st 2010 the use of Virgin (new) R22 refrigerant was banned within the European Union.

### Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to offer less financial impact on your business.
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A / R32 systems.
By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.
By installing a new high efficiency Panasonic R410A / R32 system you can benefit from around 30% running cost saving compared to the R22 system.

Yes...
1. Check the capacity of the system you wish to replace
2. Select from the Panasonic range the best system to replace it with
3. Follow the procedure detailed in the brochure and technical data

Simple...



### Why renewal?

**Unique R22 Renewal from Panasonic: Fast, easy to install and cost effective.**

- Panasonic refrigerant oil doesn't react to the most common oil types used in air-conditioning systems. This ensures the mix of oil does not damage the units. Therefore installations are easier
- All Panasonic PACi units can be installed in R22 pipings, no specific models are available
- Up to 33 Bar! When there is any doubt about the strength of the piping, the maximum working pressure can be reduced to 33 Bar with a setting in the software of the outdoor unit

### Reuse of existing piping (renewal design & installation)

**Notes on reuse of existing refrigerant piping.**

It is possible for each series of PE, PEY, PZH, PZ series outdoor unit to reuse the existing refrigerant piping without cleaning when obtained under certain conditions. Make sure that the requirements under the section "Notes on reuse of existing refrigerant piping", "Measurement procedure for renewal" and "Refrigerant piping size and allowable piping length" will be satisfied in order to carry out.
Also, check the items with regard to section "Safety" and "Cleaning".

**1. Prerequisite**

- If the refrigerant used for the existing unit is other than R22, R407C and R410A / R32, the existing refrigerant piping cannot be used.
- If the existing unit has another use than air conditioning, then existing refrigerant piping cannot be used.

**2. Safety**

- If there is a hollow, crack or corrosion on the piping, make sure to install new piping.
- If the existing piping is other than capable of reuse of piping as shown in the flowchart, make sure to install new piping.
- In case of multiple operation, use our genuine branch piping for refrigerant R410A / R32.

A local supplier shall assume responsibility for the defects and hollows on the reuse of existing piping surface and recognition of reliability of the piping strength. There is no guarantee that we take responsibility for such damages.
The operational pressure of the refrigerant R410A / R32 becomes higher compared to R22. In the worst case, a lack of compressive strength may lead to piping explosion.

**3. Cleaning**

- When the refrigerant oil used for the existing unit is other than the listed below, make sure to install new piping or wash it thoroughly before reusing it.
  [Mineral Oil] SUNISO, FIORE S, MS
  [Synthesized oil] alkyl benzene oil (HAB, parallel freeze), ester oil, ether oil (PVE only)

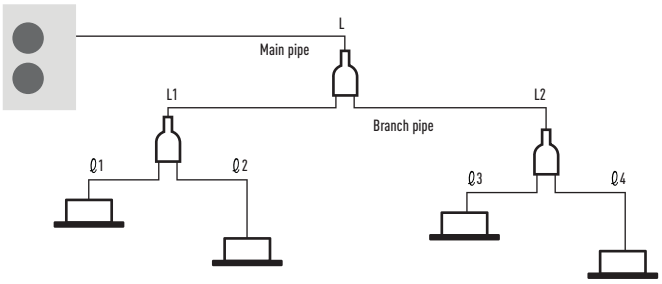
If the existing unit is GHP type, it is necessary to wash the piping thoroughly.

- If the existing pipes in the outdoor and indoor units remain disconnected, make sure to install a new piping or wash it thoroughly before reusing it.
- If the discoloured oil or residue remains in the existing piping, make sure to install a new piping or wash it thoroughly before reusing it. See "Deterioration Criteria for Refrigerant Oil" in table 3.
- If the compressor of the existing air conditioner has a failure history, make sure to install a new piping or wash it through thoroughly before reusing it.

When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.

**Notes on renewal for simultaneous operation of multiple units**

Only main pipe is applicable for using the different diameter size.
In case of different diameter size for the branch pipes, a new installation work for a standard size is necessary.
Be sure to use our genuine branch piping for refrigerant R410A / R32.




| Notes on renewal for simultaneous operation of multiple units | | |
|---|---|---|
| **Capacity class** | **Standard liquid pipe size** | **Standard gas pipe size** |
| Type 50 | Ø 6,35 | Ø 12,70 |
| Type from 60 to 140 | Ø 9,52 | Ø 15,88 |
| Type 200 | Ø 9,52 | Ø 25,40 |
| Type 250 | Ø 12,70 | |

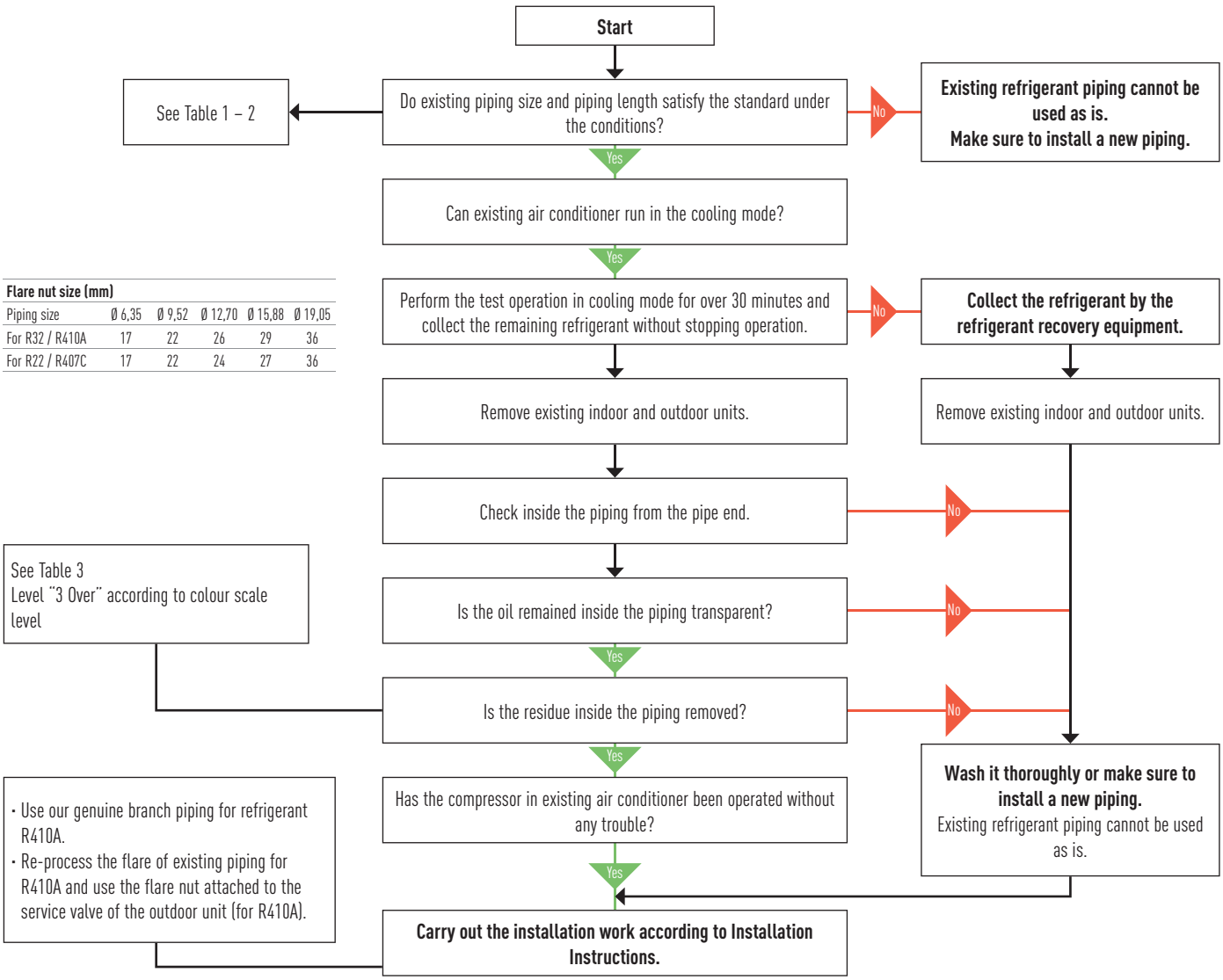
- Only the main pipe L can be used among different diameter's existing piping
- Installation work as a standard size is capable for L1, L2, l1 - l4 piping
- Be sure to use our genuine branch piping for refrigerant R410A / R32

1. In case of single unit:
   It is not necessary to charge with additional refrigerant until the chargeless pipe length in the table 2.
   If the pipe length is exceeding the charge less pipe length, charge with additional refrigerant amount per 1m according to the equivalent length.

2. In case of simultaneous operation of multiple units:
   Calculate the refrigerant charging amount according to the calculating method of the standard piping diameter.
   As to the additional refrigerant charging amount per 1m, refer to the additional amount in the table 2.

## Measurement procedure for Renewal

Observe the following procedure when reusing the existing piping or carrying out renewal installation work.
Flowchart of existing piping measures criteria for PE, PEY, PZH, PZ series outdoor unit.




| Flare nut size (mm) | | | | | |
|---|---|---|---|---|---|
| Piping size | Ø 6,35 | Ø 9,52 | Ø 12,70 | Ø 15,88 | Ø 19,05 |
| For R32 / R410A | 17 | 22 | 26 | 29 | 36 |
| For R22 / R407C | 17 | 22 | 24 | 27 | 36 |

## Refrigerant piping size and allowable piping length

Check if reuse of existing refrigerant piping is possible based on the following chart.
The standards other than this one (difference of elevation, etc.) are identical to the requirements of ordinary refrigerant piping.

**Table 1 Reusable existing piping (mm)**

| Material | O | | | | 1/2 H, H* | | | |
|---|---|---|---|---|---|---|---|---|
| External diameter | Ø 6,35 | Ø 9,52 | Ø 12,70 | Ø 15,88 | Ø 19,05 | Ø 22,22 | Ø 25,40 | Ø 28,58 |
| Thickness | 0,80 | 0,80 | 0,80 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 |

* It is impossible to reuse the size of Ø 19.05, Ø 22.22, Ø 25.4 and Ø 28.58 for material O. Change to material 1/2H or material H.

**Table 2 - 1 Refrigerant piping size: 3,6 - 14,0 kW type (mm)**

| Liquid pipe | | Ø 6,35 | | | Ø 9,52 | | | Ø 12,70 | |
|---|---|---|---|---|---|---|---|---|---|
| Gas pipe | | Ø 9,52 | Ø 12,70 | Ø 15,88 | Ø 12,70 | Ø 15,88 | Ø 19,05 | Ø 15,88 | Ø 19,05 |
| PE / PZH | Type 50 | × | Standard<br>40 m<br>(30 m) | ◎<br>40 m<br>(30 m) | □<br>20 m<br>(15 m) | □<br>20 m<br>(15 m) | × | × | × |
| PEY / PZ | Type 60<br>Type 71 | × | ▽<br>10 m<br>(10 m) | □<br>10 m<br>(10 m) | ▽<br>30 m<br>(20 m) | Standard<br>50 m<br>(20 m) | × | □<br>25 m<br>(10 m) | × |
| Additional refrigerant charging amount per 1 m | | 20 g/m | | | 40 g/m | | | 80 g/m | |
| PE / PZH | Type 60<br>Type 71 | × | ▽<br>10 m<br>(10 m) | □<br>10 m<br>(10 m) | ▽<br>30 m<br>(30 m) | Standard<br>50 m<br>(30 m) | × | □<br>25 m<br>(15 m) | × |
| | Type 100<br>Type 125<br>Type 140 | × | × | × | × | Standard<br>75 m<br>(30 m) | ◎<br>75 m<br>(30 m) | □<br>35 m<br>(15 m) | □<br>35 m<br>(15 m) |
| PEY / PZ | Type 100<br>Type 125<br>Type 140 | × | × | × | × | Standard<br>50 m<br>(30 m) | ◎<br>50 m<br>(30 m) | □<br>25 m<br>(15 m) | □<br>25 m<br>(15 m) |
| Additional refrigerant charging amount per 1 m | | 20 g/m | | | 50 g/m | | | 80 g/m | |

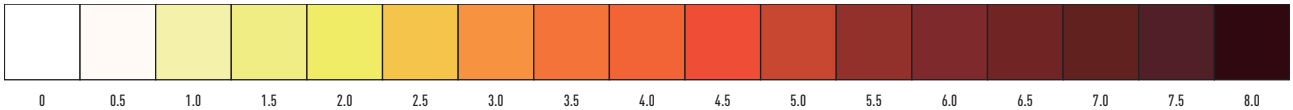
How to see table definition (example):
In case of type 71, standard size is liquid pipe Ø 9,52 / gas pipe Ø 15,88,
There is a limitation to liquid pipe Ø 9,52 / gas pipe Ø 12,70 and to liquid pipe Ø 12,70 / gas pipe Ø 15,88,
However, they are applicable for different diameter's pipes.

**Table 2 - 2 Refrigerant piping size: 20,0 - 25,0 kW type (mm)**

| Liquid pipe | | Ø 9,52 | | | Ø 12,70 | | | Ø 15,88 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Gas pipe | | Ø 22,22 | Ø 25,40 | Ø 28,58 | Ø 22,22 | Ø 25,40 | Ø 28,58 | Ø 22,22 | Ø 25,40 | Ø 28,58 |
| PZH | Type 200 | ▽<br>80 m<br>(30 m) | Standard<br>100 m<br>(30 m) | ◎<br>100 m<br>(30 m) | ▽<br>50 m<br>(15 m) | □<br>50 m<br>(15 m) | □<br>50 m<br>(15 m) | × | × | × |
| | Type 250 | × | × | × | ▽<br>80 m<br>(30 m) | Standard<br>100 m<br>(30 m) | ◎<br>100 m<br>(30 m) | ▽<br>65 m<br>(20 m) | □<br>65 m<br>(20 m) | □<br>65 m<br>(20 m) |
| Additional refrigerant charging amount per 1 m | | 40 g/m | | | 80 g/m | | | 120 g/m | | |

◎ Allowable
▽ Cooling capacity down
□ Limited piping length
× Unallowable
50 m Maximum piping length
(50 m) Charge less piping length in a single connection

**Table 3 Deterioration Criteria for Refrigerant Oil**



0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0



# ACCESSORIES AND CONTROL

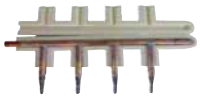
## Branch Pipes, Header



**CZ-P224BK2BM**
Branch pipe (capacity after distribution is 22,40kW or less).



**CZ-P680BK2BM**
Branch pipe (from 22,40kW to 68kW).



**CZ-P3HPC2BM**
Header.

## Plenums



**CZ-DUMPA90MF2**
Air Inlet Plenum S . .PF1E5B 60 & 71.

**CZ-DUMPA160MF2**
Air Inlet Plenum S . .PF1E5B 100, 125 & 140.

**CZ-56DAF2**
Air Outlet Plenum S . .PF1E5B 36, 45 & 50.

**CZ-90DAF2**
Air Outlet Plenum S . .PF1E5B 60 & 71.

**CZ-160DAF2**
Air Outlet Plenum S . .PF1E5B 100, 125 & 140.

**CZ-TREMIESPW705**
Air Outlet Plenum S-200PE2E5.

**CZ-TREMIESPW706**
Air Outlet Plenum S-250PE2E5.

## Outdoor accessories



**PAW-WTRAY**
Tray for condenser water compatible with base ground support.



**PAW-GRDSTD40**
Outdoor elevation platform 400x900x400mm.



**PAW-GRDBSE20**
Outdoor base ground support for noise and vibration absorption (600 x 95 x 130mm, 500kg).



**PAW-WPH9**
Wind protection shield for U-71PZH2E5/8, U-71PE1E5A/8A and U-100/125PEY1E5/8.



**PAW-WPH7**
Wind protection shield for U-100/125/140PZH2E5/8, U-100/125/140PE1E5A/8A and U-140PEY1E8.

## Panels



**CZ-KPU3W**
Normal panel for 90x90 Cassette PU2.



**CZ-KPU3AW**
Econavi panel for 90x90 Cassette PU2.



**CZ-KPY3AW**
Panel for 60x60 Cassette size 700x700mm.



**CZ-KPY3BW**
Panel for 60x60 Cassette size 625x625mm.

## Other Accessory



**CZ-CNEXU1**
nanoe™ X air purifying system for 90x90 Cassette PU2.



**CZ-CENSC1**
Econavi energy savings sensor.

## Individual Controls



**CZ-RTC5B**
Design wired remote controller with Econavi function and datanavi.



**CZ-RWS3 + CZ-RWRU3**
Infrared remote controller for 4 Way 90x90 Cassette.



**CZ-RWS3**
Infrared remote controller for Wall Mounted and 4 Way 60x60 (with CZ-KPY3AW).



**CZ-RWS3 + CZ-RWRT3**
Infrared remote controller for Ceiling.



**CZ-RWS3 + CZ-RWRC3**
Infrared remote controller for all indoor units.



**CZ-RE2C2**
Simplified wired remote controller.



**CZ-CSRC3**
Temperature remote sensor.

## Controller and touch controllers for Hotels with Dry Contacts



**PAW-RE2C3-WH-1**
Stand-Alone with I/O, White.

**PAW-RE2C3-MOD-WH-1**
Modbus RS-485 with I/O, White.



**PAW-RE2C4-MOD-WH**
NEW Modbus RS-485 touch room controller with I/O, White.

**PAW-RE2C4-MOD-BK**
NEW Modbus RS-485 touch room controller with I/O, Black.



**PAW-RE2D4-WH**
NEW Touch display control with 2 inputs, White.

**PAW-RE2D4-BK**
NEW Touch display control with 2 inputs, Black.

## Hotel sensors for Dry Contacts



**PAW-WMS-DC**
NEW Wall motion sensor 24V.

**PAW-WMS-AC**
NEW Wall motion sensor AC.



**PAW-CMS-DC**
NEW Ceiling motion sensor 24V.

**PAW-CMS-AC**
NEW Ceiling motion sensor AC.



**PAW-24DC**
NEW Power supply 24V.



**PAW-DWC**
NEW Door or window contact.

## Centralised Controls



**CZ-64ESMC3**
System Controller with Schedule timer. Operation with various function from center station.



**CZ-ANC3**
Central ON/OFF controller, up to 16 groups, 64 indoor units.



**CZ-256ESMC3**
Simplified load distribution ratio (LDR) for each tenant. Intelligent Controller (Touch screen panel).

## Centralised Controls. BMS System. PC Base







**CZ-CSWKC2**
PAIMS Basic software.

**CZ-CFUNC2**
Communication adaptor.

**CZ-CSWAC2**
PAIMS Consumption calculation control.

**CZ-CSWBC2**
PAIMS - BACnet interface.

**CZ-CSWGC2**
PAIMS - Layout display.

**CZ-CSWWC2**
PAIMS - Web application.

## Centralised Controls. Connection with 3rd Party Controller









**CZ-CAPDC2**
Serial parallel device controlling outdoor units, up to 4 units.

**CZ-CAPC3**
Adaptor for ON/OFF control of external devices.

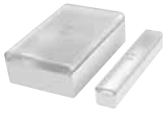
**CZ-CAPBC2**
Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

**CZ-CFUNC2**
Communication Adaptor. Up to 128 groups. Controls 128 units.

## VRF Smart Connectivity

Panasonic Schneider Electric









**SER8150R0B1194**
Remote Controller Panasonic Net Con, RH, No PIR, R1/R2.

**SER8150R5B1194**
Remote Controller Panasonic Net Con, RH, PIR, R1/R2.

**VCM8000V5094P**
Wireless Zigbee Pro module / Green Com card.

**SED-WDC-G-5045**
Door / window wireless sensor.

**SED-MTH-G-5045**
Wall / ceiling (motion) wireless sensor.

**SED-CO2-G-5045**
$CO_2$ sensor.

**SED-TRH-G-5045**
Sensor with room temperature and humidity.

## Accessories Interfaces

















**PA-RC2-WIFI-1**
Interface for Intesishome for PACi and ECOi.

**PAW-RC2-KNX-1i**
KNX Interface.

**PAW-RC2-MBS-4**
Modbus interface to control 4 indoor/groups.

**PAW-RC2-MBS-1**
Modbus Interface.

**PAW-MBS-TCP2RTU**
ModBus RTU Slave devices.

**PAW-RC2-BAC-1**
BACnet Interface.








**CZ-CAPRA1**
Domestic with CN-CNT port integration to PACi and ECOi.

**CZ-CAPWFC1**
NEW Commercial WLAN Adaptor.

**PAW-AC2-MBS-16P**
NEW Modbus Interface for 16 indoors.

**PAW-AC2-MBS-64P**
NEW Modbus Interface for 64 indoors.

**PAW-AC2-MBS-128P**
NEW Modbus Interface for 128 indoors.

**PAW-AC2-KNX-16P**
NEW KNX Interface for 16 indoors.

**PAW-AC2-KNX-64P**
NEW KNX Interface for 64 indoors.

**PAW-AC2-BAC-16P**
NEW BACnet Interface for 16 indoors.

**PAW-AC2-BAC-64P**
NEW BACnet Interface for 64 indoors.

**PAW-AC2-BAC-128P**
NEW BACnet Interface for 128 indoors.

## Panasonic AC Smart Cloud



**CZ-CFUSCC1**
Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.

**PAW-MVNOAC-V**
**PAW-MVNOAC-K**
3G communication package (SIM Card included). V, K: Depending on countries.

## Accessories PCB








**PAW-T10**
All T10 functions.

**PAW-PACR3**
Redundancy of 2 or 3 systems; for PACi and ECOi.

**PAW-SERVER-PKEA**
Redundancy of 2 units TKEA / PKEA.

## Accessories Cables









**CZ-T10**
Cable for all the T10 functions.

**PAW-FDC**
Cable to operate external EC fan.

**PAW-OCT**
Cable for all option monitoring signals.

**PAW-EXCT**
Cable with force Thermo OFF/leakage Detection.

**CZ-CAPE2**
Option monitoring signals wo. Fan.

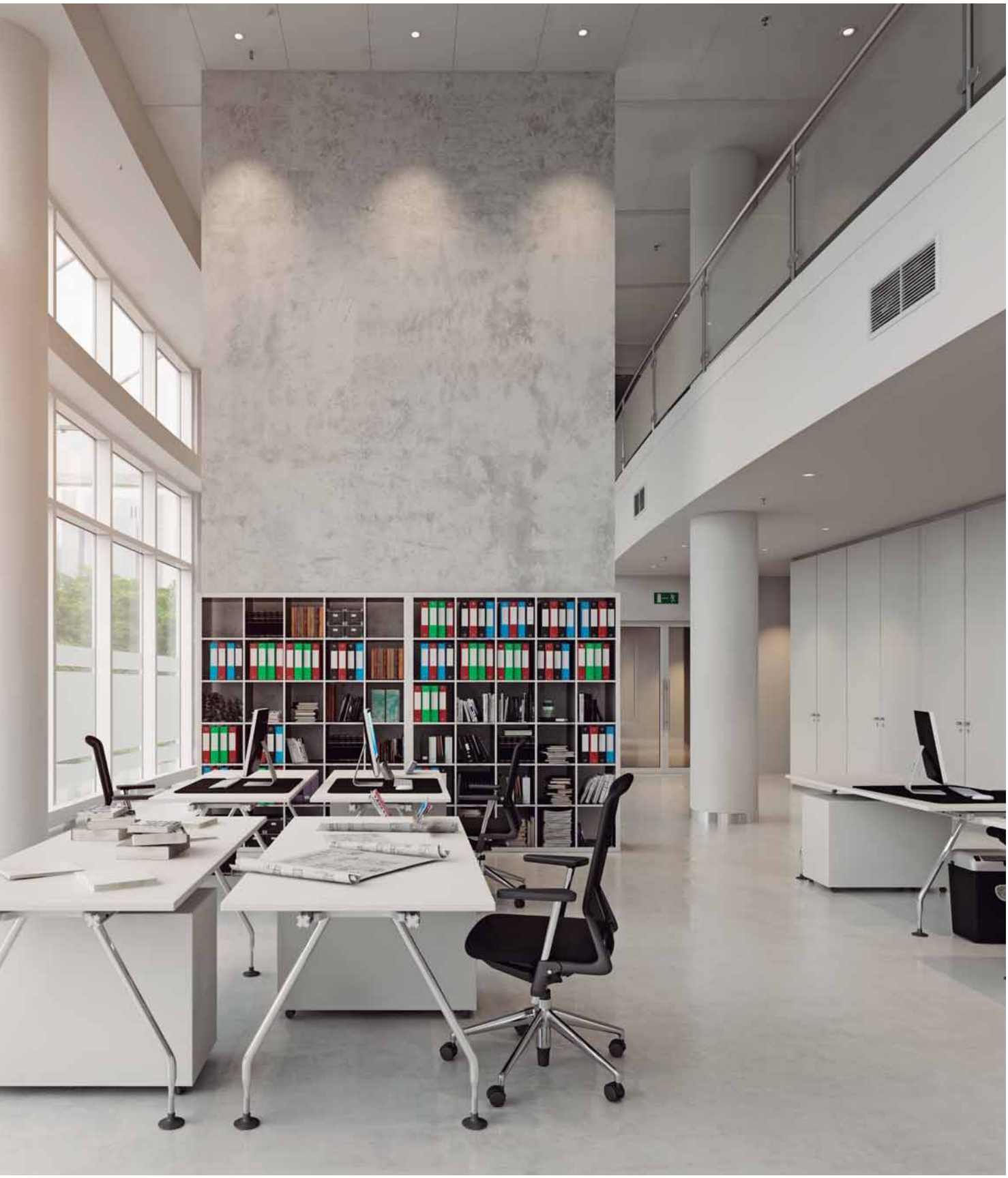


# INDUSTRIAL VRF SYSTEMS



Professional solutions for all types of projects.
The new Panasonic VRF System is specifically designed for energy saving, easy installation and high efficiency performance, with a wide choice of outdoor and indoor unit models and unique features which are designed for the most demanding offices and big buildings.

# VRF HIGHLIGHTED FEATURES



## Panasonic provides an extensive range of solutions for medium-sized and large buildings. Combining the best option to satisfy all needs and site restrictions.

ECOi EX
ECOi
ECOG

## Uniquely, you can choose from both Electrical VRF and Gas-powered VRF systems from Panasonic, delivering best choice that really makes a difference to our customers.

Providing a large choice in indoor units, you can also connect water heat exchangers, air handling units and ventilation units with or without a heat exchanger. And all managed from a simple and powerful stand-alone remote control, new centralised controls or cloud connection with 3G embedded. This cutting edge control technology is called VRF Smart Connectivity, combining the expertise of VRF communication and a leading BEMS company to maximise comfort and efficiency while also reducing installation costs.

| | ECOi. Electrical VRF | | | ECO G. Gas Powered VRF | |
|---|---|---|---|---|---|
| | 2-Pipe Mini ECOi | 2-Pipe ECOi EX | 3-Pipe ECOi EX | 2-Pipe ECO G GE3 | 3-Pipe ECO G GF3 |
| Capacity range | 4-10HP | 8-80HP | 8-48HP | 16-60HP | 16-25HP |
| Extreme temperatures operation | -20°C | -25°C | -20°C | -21°C | -21°C |
| Number of indoor units | 15 | 64 | 52 | 64 | 24 |
| Simultaneity ratio | 50 ~ 130% | 200% | 150% | – | 50 ~ 200% |
| Indoor units | All (check restrictions) | | | | |
| Controls | All | | | | |
| Other ranges integration | PACi full control integration + Domestic integration by accessory | | | | |

## Energy saving

INVERTER+

**Inverter Plus.**
The Inverter range provides greater efficiency, more comfort, more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

ALL INVERTER COMPRESSORS

**All inverter compressors.**
Multiple large-capacity all inverter compressors (more than 14HP).Two independently controlled inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.

28% ECONAVI

**Econavi.**
Intelligent Human Activity Sensor and new Sunlight Sensor technologies that can detect and reduce waste by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

GAS POWERED ECOG

**Gas powered.**
ECO G technology offers the best in energy efficiency. ECO G gas VRF is specially designed for buildings where the electricity is restricted or $CO_2$ emissions must be reduced.

HIGH COP

**High COP.**
High efficiency models performs higher COP than standard units and standard combinations.

## High performance

-25°C HEATING MODE

**Down to -25°C in heating mode.**
The ECOi EX system works in heating mode with performance data at outdoor temperature down to -25°C.

52°C COOLING MODE

**Cooling with outdoor temperature up to 52°C.**
The ECOi EX system works in cooling mode with performance data at outdoor temperature up to 52°C.

BLUEFIN

**Bluefin.**
Panasonic has extended the life of its condensers with an original anti-rust coating.

SELF-DIAGNOSING

**Self-diagnosing function.**
By using electronic control valves past warnings are stored. This makes it easier to diagnose malfunctions, reducing service labour and therefore costs.

AUTOMATIC FAN

**Automatic fan operation.**
Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, corresponding to room sensor and maintains comfortable airflow throughout the room.

HUMIDITY CONTROL DRY

**Mild Dry**
By intermittent control of compressor and indoor unit's fan, "Mild Dry" gives you comfort. It realizes efficient dehumidification according to room temperature.

AUTO-FLAP CONTROL

**Comfortable auto-flap control.**
When the unit is first turned on, flap position is automatically adjusted in accordance with the cooling or heating operation.

AUTOMATIC RESTART

**Automatic restart.**
Automatic restart function for power failure. Even when power failure occurs, preset programmed operation can be reactivated once power is resumed.

AIR SWEEP

**Air Sweep.**
The air sweep function moves the flap up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.

BUILT-IN DRAIN PUMP

**Built-in drain pump.**
Maximum head 50cm (or 75cm for U type) from the bottom of the unit.

R22 R410A R22 RENEWAL

**R22 renewal.**
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.

5 YEARS COMPRESSOR WARRANTY

**5 Years Warranty.**
We guarantee the outdoor unit compressors for five years.

## High connectivity

PANASONIC AC SMART CLOUD

**Panasonic AC Smart Cloud.**
The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimizing costs.

OPTIONAL WLAN

**Internet Control.**
A next generation system providing a user-friendly remote controller of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

BMS CONNECTIVITY

**BMS connectivity.**
The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

# PANASONIC: DELIVERING TOP ENERGY EFFICIENCIES FOR MANY YEARS



## Particularly suitable for retail, hotels and office applications

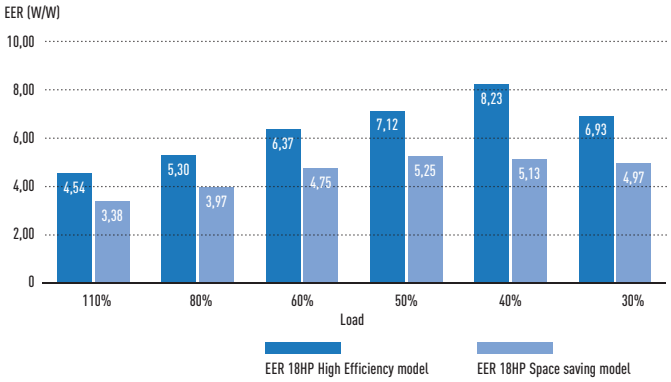
**Outstanding efficiency at part load conditions:**

Panasonic ECOi EX model covers up to 30% part load with extremely high efficiency.

**EER comparison of Panasonic ECOi EX 2-Pipe ME2 at different partial load**

| Load % | 100% | 80% | 60% | 50% | 40% | 30% |
|---|---|---|---|---|---|---|
| 18HP High Efficiency model | 4,54 | 5,30 | 6,37 | 7,12 | 8,23 | 6,93 |
| 18HP Space saving model | 3,38 | 3,97 | 4,75 | 5,25 | 5,13 | 4,97 |

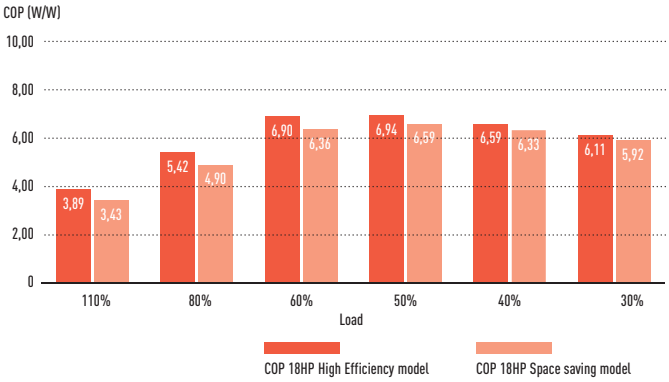
Conditions: Outdoor temperature 35°C DB, Room temperature 19°C WB.




**COP comparison of Panasonic ECOi EX 2-Pipe ME2 at different partial load**

| Load % | 100% | 80% | 60% | 50% | 40% | 30% |
|---|---|---|---|---|---|---|
| 18HP High Efficiency model | 3,89 | 5,42 | 6,90 | 6,94 | 6,59 | 6,11 |
| 18HP Space saving model | 3,43 | 4,90 | 6,36 | 6,59 | 6,33 | 5,92 |

Conditions: Outdoor temperature 0°C WB, Room temperature 20°C DB.




* Data from Panasonic official technical data book.

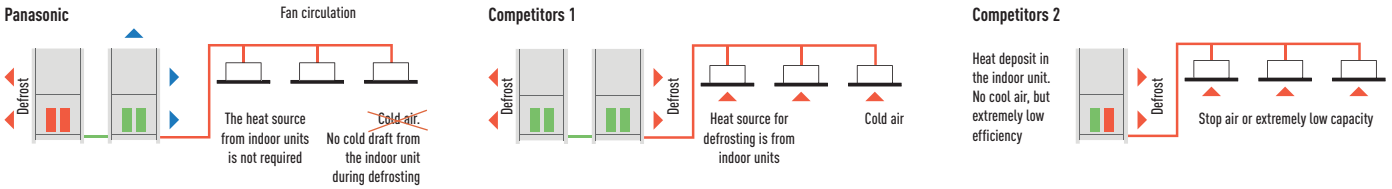
## Excellent SEER and SCOP values for VRF 2 and 3-Pipe

Panasonic have a extremely high SEER and SCOP values following LOT21 (seasonal space cooling/heating energy efficiency by COMMISSION REGULATION (EU) 2016/2281).

| | Mini ECOi | | | | | 2-Pipe | | | | | | | 3-Pipe | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4HP | 5HP | 6HP | 8HP | 10HP | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 8HP | 10HP | 12HP | 14HP | 16HP |
| **SEER** | 7,85 | 7,48 | 7,25 | 6,27 | 6,37 | 7,43 | 6,83 | 6,65 | 7,23 | 6,43 | 7,56 | 7,03 | 7,02 | 7,05 | 6,39 | 6,69 | 6,02 |
| **SCOP** | 4,87 | 4,40 | 4,24 | 4,24 | 4,31 | 4,79 | 4,26 | 4,72 | 4,28 | 4,05 | 4,29 | 4,09 | 4,85 | 4,25 | 4,27 | 4,13 | 3,81 |

## Efficient defrost operation

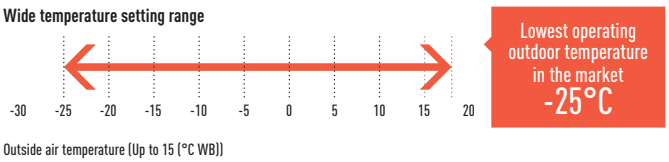
Panasonic uses the second unit to defrost the first unit. This makes the system more efficient during defrost and does not affect comfort.




## Panasonic ECOi operates at as low as -25°C

**This unique feature demonstrate the supremacy of Panasonic ECOi EX Series.**

Panasonic use the second unit to defrost the first unit. This makes the system more efficient during defrost and does not affect the comfort.



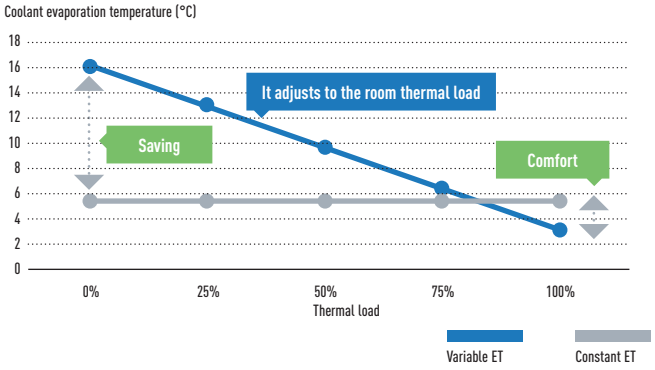
# PANASONIC VRF:
# TOP IN COMFORT



Since 2006, all Panasonic VRF systems have included special VET technology, with variable coolant temperature, as standard.

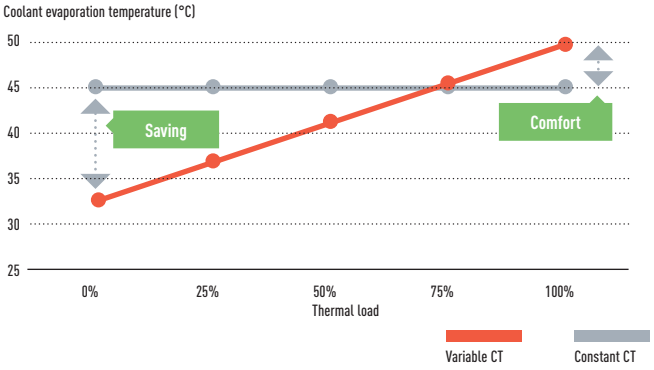
## Variable Evaporation and Condensation Temperature

Our 'smart logic' system checks the temperature every 30 seconds, automatically adjusting coolant temperature according to actual demand and outdoor conditions. This ensures better energy performance at all times.

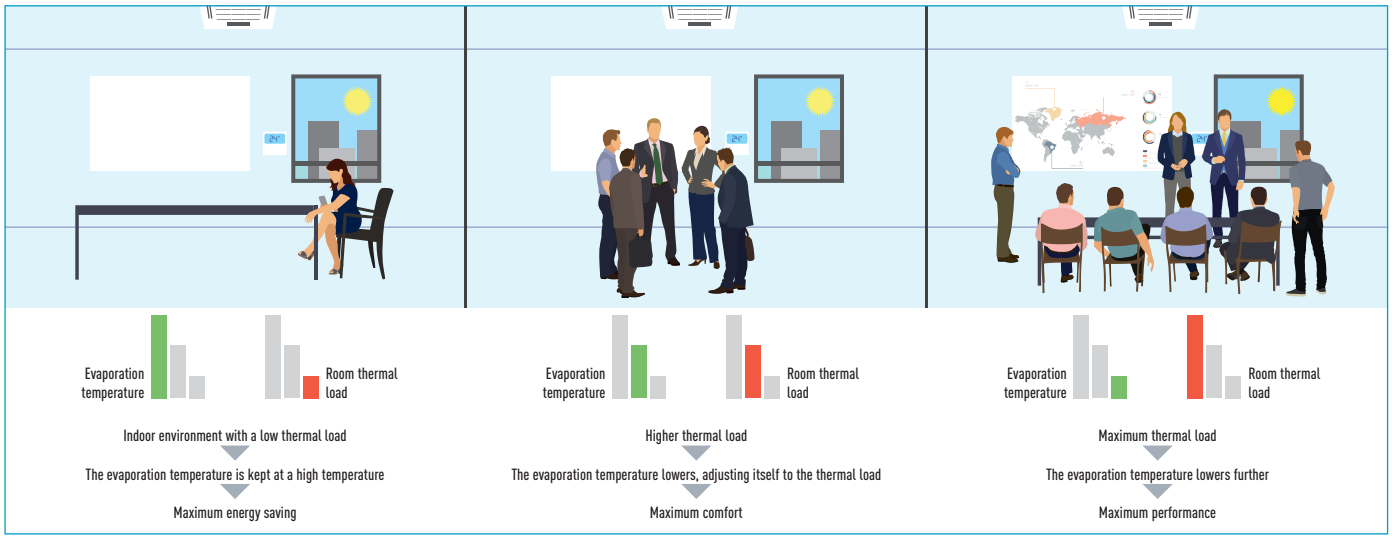



**Temperature varies from 16 °C to 3 °C.**

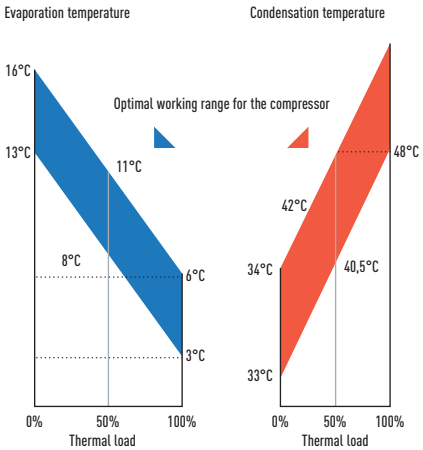
Similarly, the condensation temperature is also variable and is adjusted to the room thermal load, within a range of 33–55 °C.




**Example of cooling mode (heating mode is also available)**




## Technical focus Variable temperatures

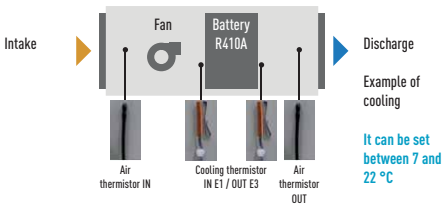



## Control of the discharge temperature

This special function is available in all of Panasonic VRF systems' indoor units to guarantee maximum comfort for the end user.

For example, in cooling mode, if the temperature of the discharged air was below 10 °C, the user may feel discomfort, just as he would do in heating mode if the temperature was far too high.

With the Panasonic control of the discharge air temperature, this can be adjusted within a cooling range of 7–22 °C.




**Benefits**

- The air will never be too cold or too warm
- Cooling and Heating function
- Comfort
- Energy saving
- It prevents the formation of condensation within ducts and vents, improving levels of hygiene.

# SOLUTIONS FOR RESTAURANTS

## Full heating, cooling and DHW solutions for Restaurants

**Highly efficient at part load conditions.**

Panasonic has solutions for optimising the installation of cooling, heating and DHW production in restaurants. While the kitchen needs cooling, heating is needed for DHW and also for heating the public area, with the advantage of 100% fresh air that removes odours. Combining all these needs smartly with Panasonic technology results in a simple and flexible system adaptable to any restaurant requests, with lower utility bills. Additionally, Panasonic is the unique offering solution for areas where electric power is limited, using ECO G, VRF units powered mainly by Natural Gas or Propane, bringing comfort and DHW anywhere.

1



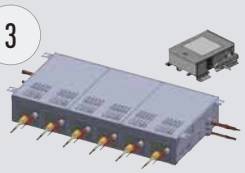
**ECOi (Electric VRF).**
ECOi electrical VRF is specifically designed for the most demanding hotels. High efficiency system. Extended operating range to provide heating at outdoor temperature as low as -20°C. Suitable for refurbishment projects.

2



**TKEA outdoor unit for server room.**
Steady cooling, nonstop, even at -20°C and still with high efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.

3



**3-Pipe control box kit.**
New Heat Recovery box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups This is good advantage specially in hotels applications, where space for connecting several boxes is limited.

4



**Aquarea T-CAP.**
Ideal for heating, cooling and for production of big quantities of hot water at 65°C, Aquarea have a extremely quick return on investment and a low $CO_2$ footprint.

5



**Control your way.**
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.

6



**Hydrokit for ECOi. Water at 45°C.**
Producing LT hot water, compatible with both ECOi, heat pump and heat recovery outdoors.

7



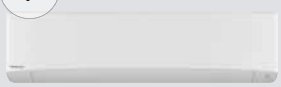
**Air Handling Unit kits for efficient ventilation.**
The new AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.

8



**Hide Away, for power and efficiency.**
Super silent units deliver the ideal air supply. Units available from 1,50kW providing precise temperature control even in small rooms. Two models available: slim unit for height restricted areas (MM unit only 200mm deep), another which allows 100% fresh air (MF).

9



**Wall Mounted.**
The K2 Type wall mounted unit has a stylish smooth panel which not only looks good but is also easy to clean. The unit is also smaller, lighter and substantially quieter than previous models making it ideal for small offices and other commercial applications.

10



**Air Curtain with DX Coil.**
The Panasonic range of air curtains is designed for smooth operation and efficient performance.

11

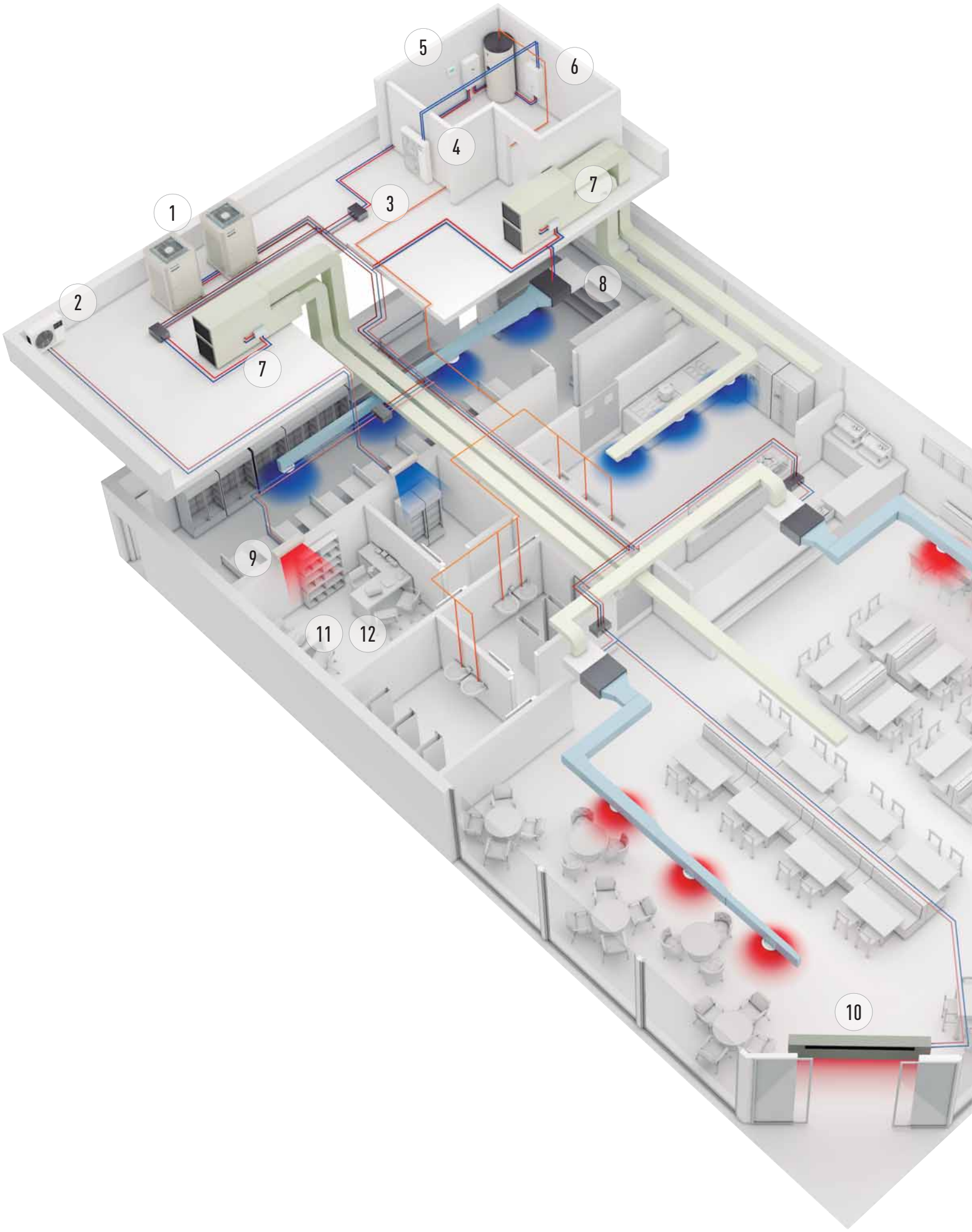


**Protocol friendly.**
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.

12



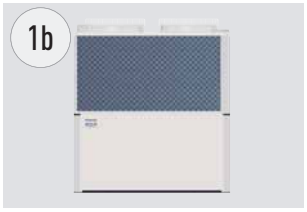
**Panasonic AC Smart Cloud.**
Taking your business under control. New service function makes maintenance works simpler.


5
6
4
7
1
3
2
8
7
9
11
12
10

# YOUR ENTIRE HOTEL WITH SUPERIOR COMFORT, CONTROL AND SAVINGS TOO



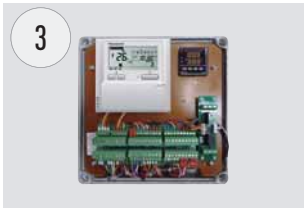

**Hybrid system.**
Gas + Electricity Hybrid system.
Taking advantage of Gas and Electricity to achieve the most efficient performance and maximum energy savings.



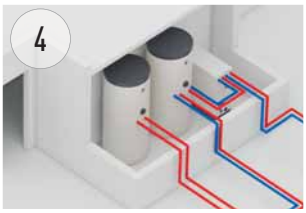

**ECO G (Gas heat pump).**
ECO G gas VRF is designed for buildings where the electricity is restricted or $CO_2$ emissions must be reduced. Sanitary hot water is produced for free, all year round.



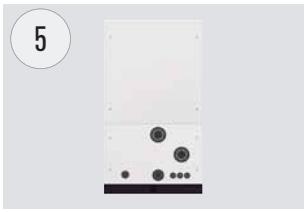

**TKEA outdoor unit for server room.**
Steady cooling, nonstop, even at -20°C and still with high efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.




**Air Handling Unit kits for efficient ventilation.**
The new AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.



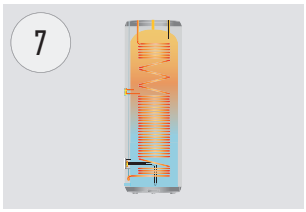

**Domestic Hot Water production and buffer tanks.**
Panasonic has developed a wide range of efficient domestic hot water tanks and buffer tanks.



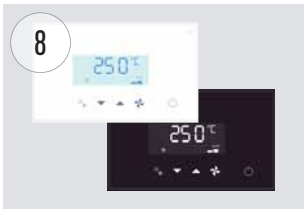

**Hydronic units.**
For obtaining hot and cold water for heating and refrigeration (Aquarea Air radiators, underfloor heating, radiators...)



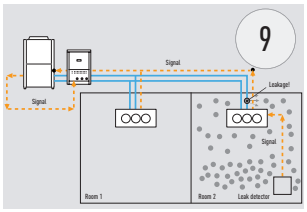

**ECOi (Electric VRF).**
ECOi electric VRF is specifically designed for the most demanding hotels. High efficiency system. Extended operating range to provide heating at outdoor temperature as low as -20°C.




**PRO-HT Tank DHW.**
DHW tank with maximum outlet temperature 65°C.
Ideal solution for high demand of hot water such as shower, spa, swimming pool.




**Control your way.**
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel, web server, consumption control, smartphone control... everything is possible.




**Direct leak detection method for the safety.**
Panasonic Pump Down System meets requirements by the Safety of Building Occupant (BS-EN378).
The safest solution for hotel rooms.



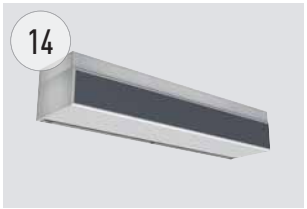

**Wide range of indoor units.**
Complete range of indoor units that fits any need. All units provided with supply air temperature sensor and low operation sound level to guarantee maximum guests comfort. From 1,50kW up to 30,00kW.




**Panasonic AC Smart Cloud.**
Take control of all your premises around the world from a single device.
Centralise control of your business premises, from wherever you are, 24/7.




**Protocol friendly.**
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.




**Air Curtain with DX Coil.**
The Panasonic range of air curtains is designed for smooth operation and efficient performance.

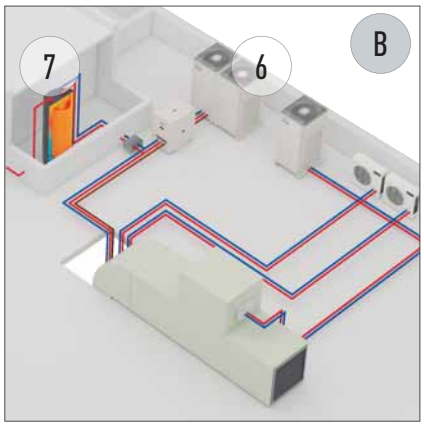



**Maximum savings on hot water production.**
Hot water for swimming pool, spa and laundry for free thanks to the residual heat generated by the ECO G units.




**Condensing unit with natural refrigerant.**
Panasonic $CO_2$ unit is the natural choice for an energy saving and environmentally friendly solution.

Panasonic offers the widest range in HVAC, DHW and ventilation available. That enables us to offer the most suitable solution 24 hours a day, 365 days a year. Panasonic Solutions ensure not only a higher customer satisfaction but also a lower energy bill.




A

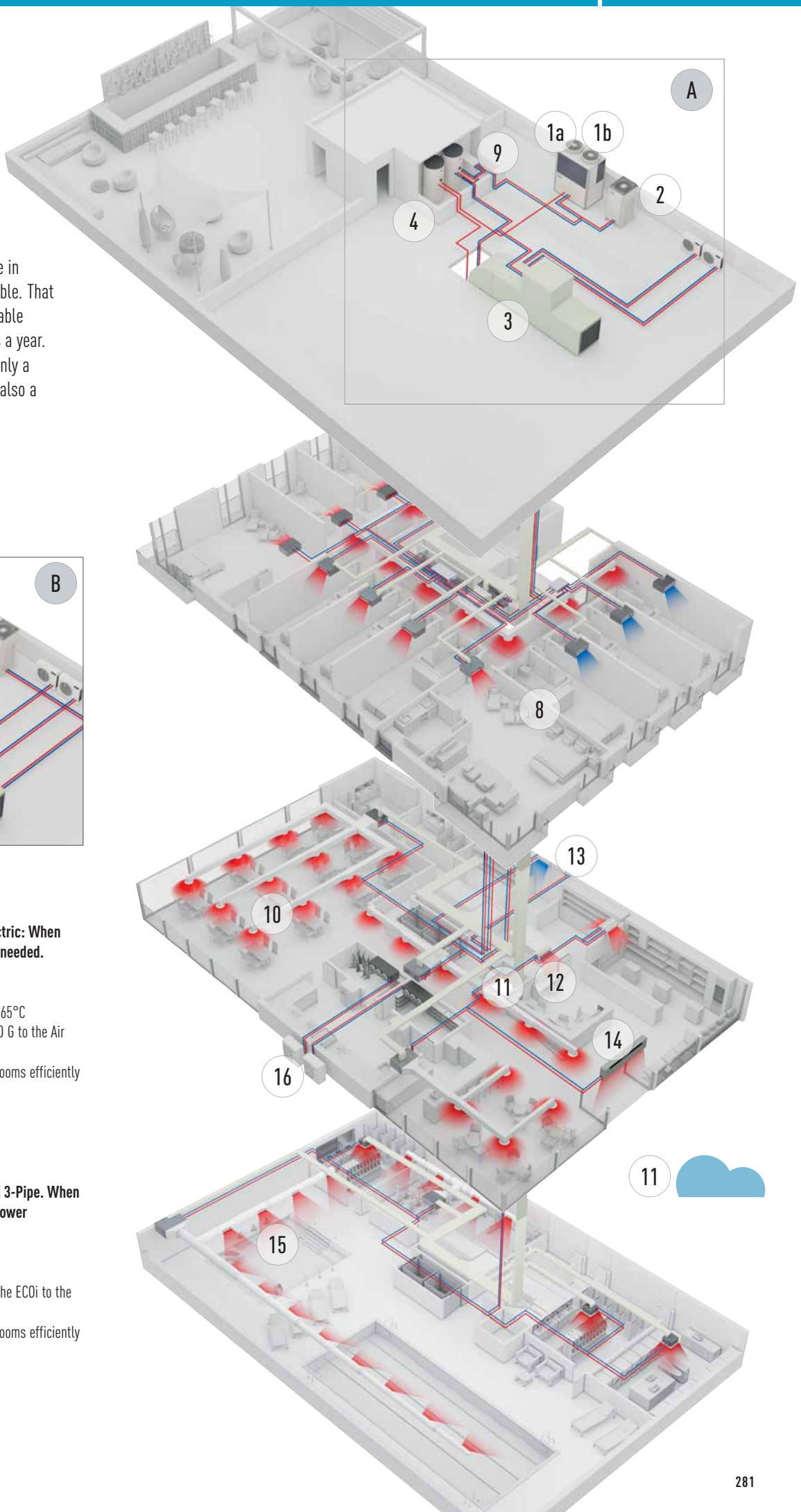
**Option A: Hybrid Solution. Gas + Electric: When large quantities of hot/cold water is needed.**

- ECO G (Gas heat pump)
- Water heat exchanger
- Aquarea HT to produce hot water up to 65°C
- Air Handling Unit kit to connect the ECO G to the Air Handling Unit
- TKEA wall mounted to cool the server rooms efficiently

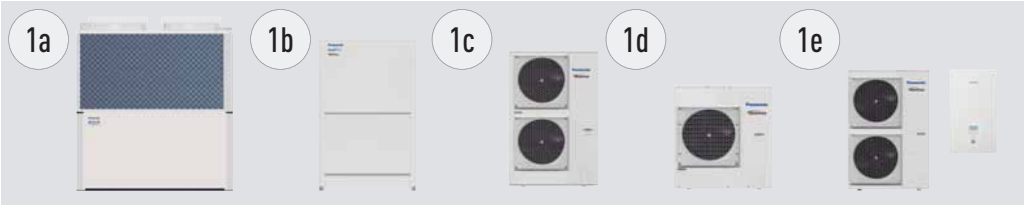
B

**Option B: Full Electric Solution 2 and 3-Pipe. When flexibility is needed and electricity power availability is not an issue.**

- ECOi (Electric VRF)
- Direct expansion indoor units
- Air Handling Unit (AHU) kit to connect the ECOi to the AHU
- TKEA wall mounted to cool the server rooms efficiently
- Panasonic Pump Down System



# INNOVATIVE SOLUTIONS FOR RETAIL



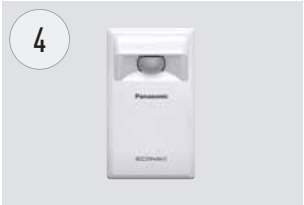

**Multi energy solutions, gas or electric.**
The Multi energy solution (Gas and Electric) from Panasonic provides the best choice in energy saving and on the flexibility of the installation. Panasonic solutions can be connect to direct expansion systems, water chiller installations and ventilation systems as air handling units.
1a: Gas VRF. ECO G
1b: Electric VRF. ECOi
1c: Electric VRF. Mini ECOi
1d: Electric 1x1. PACi
1e: Electric A2W. Aquarea




**TKEA outdoor unit for server room.**
Steady cooling, nonstop, even at -20°C and still with high efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool with maximum operating guaranteed.




**Control your way.**
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.



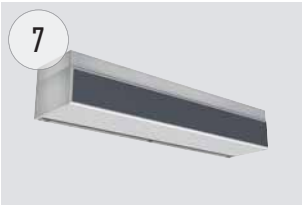

**Econavi Sensor.**
The Econavi Sensor detects presence in the room, and quietly adapts the PACi or VRF air conditioning system in order to improve comfort and energy savings.




**Wide range of indoor units.**
Complete range of indoor units that fits any need. All units provided with supply air temperature sensor and low operation sound level to guarantee guests comfort. From 1,50kW up to 30kW.




**Hide Away, for power and efficiency.**
Super silent units deliver the ideal air supply. Units available from 1,50kW providing precise temperature control even in small rooms. Two models available: slim unit for height restricted areas (MM unit only 200mm deep), another which allows 100% fresh air (MF).



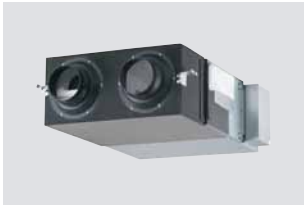

**Air Curtain with DX Coil.**
The Panasonic range of air curtains is designed for smooth operation and efficient performance.



**Protocol friendly.**
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.



**Air Handling Unit kits for efficient ventilation.**
The new AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.



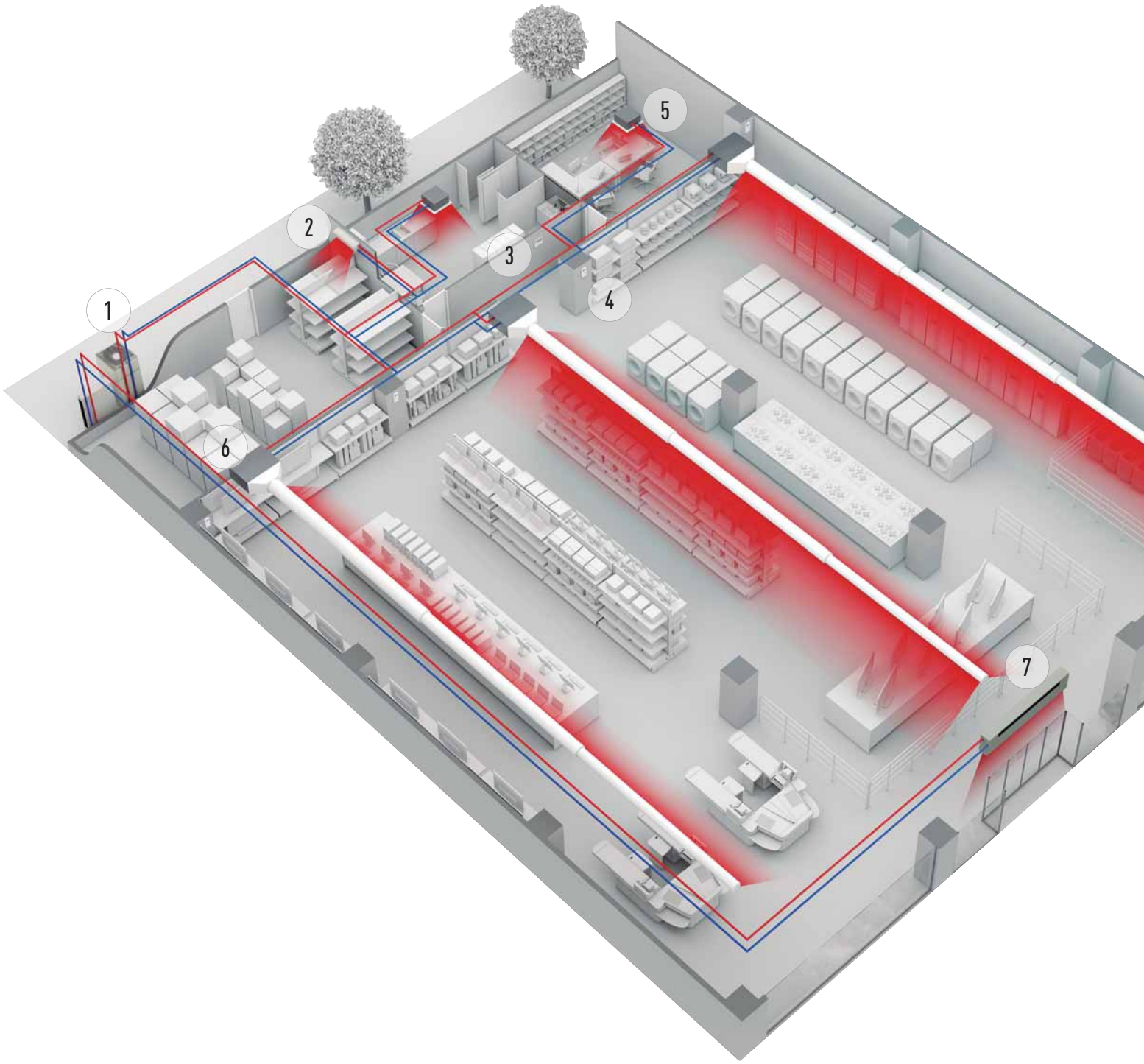
**Energy Recovery unit for high efficiency of the system.**
Panasonic Energy Recovery Ventilators can reduce the outside air load because they efficiently recover the heat lost by ventilation during the heat recovery process.

## Heating and cooling solutions for retail applications

Panasonic has developed solutions for retail applications and office applications where return on investment is a key factor! The comfort inside the shop is key for a good customer experience in the shop.
From local control or from Panasonic new cloud control system, a detail status of the heating and cooling system can be displayed, analysed and optimised in order to improve the efficiency, reduce the running time and increase the life time of the units.

## 8 reason why Panasonic is the best solution for your Retail:

- Complete solution
- Flexibility and adaptation
- Go green retail: low $CO_2$ emissions
- Comfort - high customer satisfaction
- Future expansion
- Panasonic offers efficient systems meeting expectations over the years
- High quality of service with Panasonic pro-partner installation team
- The system will still operate up to 25% of the connected indoor units. System will not stop when up to 25% of indoor units have power supply breakdown when they are on mode



# RANGE OF VRF OUTDOOR UNITS

| Page | Outdoor units | 4HP | 5HP | 6HP | 8HP | 10HP | 12HP |
|---|---|---|---|---|---|---|---|
| P. 288 | Mini ECOi LE2 / LE1 Series |  U-4LE2E5 / U-4LE2E8 |  U-5LE2E5 / U-5LE2E8 |  U-6LE2E5 / U-6LE2E8 |  U-8LE1E8 |  U-100LE1E8 | |
| P. 300 | 2-Pipe ECOi EX ME2 Series | | | |  U-8ME2E8 |  U-10ME2E8 |  U-12ME2E8 |
| P. 310 | 3-Pipe ECOi EX MF3 Series | | | |  U-8MF3E8 |  U-10MF3E8 |  U-12MF3E8 |
| P. 320 | 2-Pipe ECO G GE3 Series | | | | | | |
| P. 324 | 3-Pipe ECO G GF3 Series | | | | | | |
| P. 326 | GHP/EHP Hybrid System | | | | | | |

| 14HP | 16HP | 18HP | 20HP | 25HP | 30HP |
|---|---|---|---|---|---|
|  U-14ME2E8 |  U-16ME2E8 |  U-18ME2E8 |  U-20ME2E8 | | |
|  U-14MF3E8 |  U-16MF3E8 | | | | |
| |  U-16GE3E5 | |  U-20GE3E5 |  U-25GE3E5 |  U-30GE3E5 |
| |  U-16GF3E5 | |  U-20GF3E5 |  U-25GF3E5 | |
| | | | | |  U-20GES3E5 / U-10MES2E8 |

# BEST EFFICIENCY ECOi SERIES FROM PANASONIC



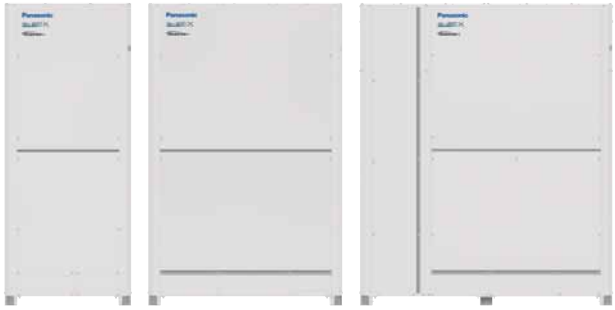
The ECOi series is designed for energy savings, easy installation, and high efficiency. Always continuing to evolve, Panasonic uses advanced technologies to meet the requirements of diverse situations and contribute to the creation of comfortable living spaces.

## Mini ECOi LE Series



The 2-Pipe heat pump small VRF system specifically designed for the European market.

## 2-Pipe ECOi EX ME2 Series



The VRF system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.

## 3-Pipe ECOi EX MF3 Series



The VRF system that offers high-efficiency and performance for simultaneous heating and cooling.

**Lower running and life cycle costs.**
Panasonic ECOi systems are highly efficient VRF systems on the market, offering COPs in excess of 4,0 at full load conditions. The system is also designed to make sure that we reduce the running cost of each system by using our unique road map control routine to ensure that the efficient combination of compressors are running at any one time. Improved defrost sequencing also reduces running costs by defrosting each outdoor coil in turn when conditions allow.
Up to 64 indoor units can be connected up to a capacity of 200% indexed indoor unit loads, enabling the system to be used effectively on highly diversified building loads: this large connectability feature makes it an easy-to-design solution for schools, hotels, hospitals and other large buildings. Up to 1000m in pipe length enables the VRF ECOi series to be used in very large buildings, with maximum design flexibility. The ECOi system is also easy to control. It has more than 8 types of control from standard wired remote controls to touch screen panels or web access interfaces.

DC-inverter control technology for rapid and powerful cooling & heating. The ever-evolving Panasonic ECOi series.

## ECOi Series benefits

**Ease of installation.**
R410A has a higher operating pressure with a lower pressure loss than previous refrigerants. This enables smaller pipe sizes to be used and allows reduced refrigerant charges.

**Simple to design.**
Panasonic recognise that designing, selecting and preparing a professional VRF quotation can be a time consuming and costly process, especially as it is often also a speculative exercise. So we have designed proprietary software which is quick and easy to use and produces a full schematic layout of pipework and controls, as well as a full materials list and performance data.

**Easy to control.**
A wide variety of control options are available to ensure that the ECOi system provides the user with the degree of control that they desire, from simple room controllers through to state of the art BMS controls.

**Simple to commission.**
Simple set-up procedure including automatic addressing of connected indoor units. Configuration settings can be made from an outdoor unit or via a remote controller.

**Easy to position.**
The compact design of the ECOi outdoor units means that sizes 4HP to 10HP fit into a standard lift and are easy to handle and position when on site. The small footprint and modular appearance of the units ensure a cohesive appearance to an installation.

**Wide selection and connectability.**
With 17 indoor model styles available, ECOi systems are the ideal choice for multiple small capacity indoor unit installations, with the ability to connect up to 40 indoor units to systems of 24HP or greater for 3-Pipe ECOi EX MF3 Series.

**Easy to maintain.**
Each system allows the use of prognostic and diagnostic controls routines, from refrigerant charge control through to complex fault code diagnostics, all designed to reduce the speed of maintenance calls and unit down time.

**Lower running and life cycle costs.**
Panasonic ECOi system are also designed to make sure that we reduce the running cost of each system by using our unique road map control routine to ensure that the most efficient combination of compressors are running at any one time. Improved defrost sequencing also reduces running costs by defrosting each outdoor coil in turn when conditions allow.

# MINI ECOi LE SERIES FOR LIGHT COMMERCIAL & RESIDENTIAL USE

**NEW COMPACT DESIGN**



## Mini ECOi with extraordinary energy-saving performance and high external static pressure (35Pa).

## Advantages of Mini ECOi LE Series used for medium sized buildings.

**1** **Efficiency energy control**

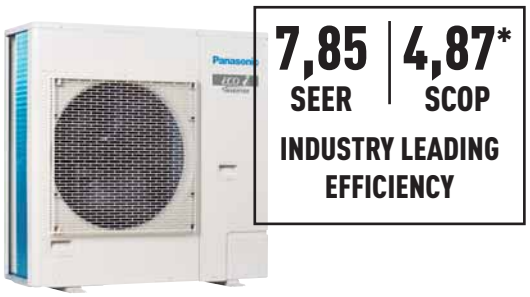
Upgraded outdoor units deliver high efficiency rating and reduced energy costs.

**2** **Space saving**

Ideal for commercial locations with limited space such as banks and shops.
Compact units integrate easily and discreetly into building design.

**3** **Flexible installation**

Reduced installation time thanks to compact units and extra long piping without additional refrigeration charge. High external static pressure 35Pa and small chassis increase installation options.







### New compact design: LE2 Series - 4 / 5 / 6HP

- Extraordinary energy saving: 7,85 SEER and 4,87 SCOP (4HP)*
- 50 m piping length without additional refrigerant charge
- Quiet operation mode with 4 levels
- High COP mode option

### LE1 Series - 8 / 10HP

- 60% smaller than ECOi ME2 8 / 10HP with vertical flow type
- Flexible piping length (Total: 300m, Furthest: 150m)
- Maximum number of connectable indoor units: 15

* SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

## Key features for LE2 / LE1.

High external static pressure 35Pa
Full range of ECOi indoor units and controllers
Variable evaporation temperature control as standard
Connectable maximum indoor / outdoor capacity ratio up to 130%
Auto restart from outdoor units
Demand response (Peak cut) by optional parts
Suitable for R22 renewable projects

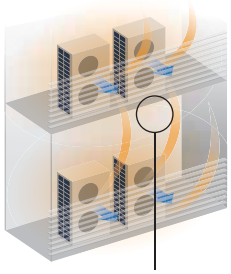
# INSTALLATION FLEXIBLE, EASY AND HASSLE-FREE

## High external static pressure 35Pa

- High air pressure
- New blade shape
- Good for high class condominiums

When unit is installed on a narrow balcony and exposed to the sun, the barrier at the front side would restrict hot air from being discharged. Heat accumulated in an enclosure can cause over-heating. This could potentially result in damage or shorten the product's life span. A high external static pressure sends the air further away from the outdoor unit and through the barrier. This provides better air circulation and distribution.
And a high air pressure of 35Pa discharges the hot air a sufficient distance.

**Previous Model - Low Pressure**

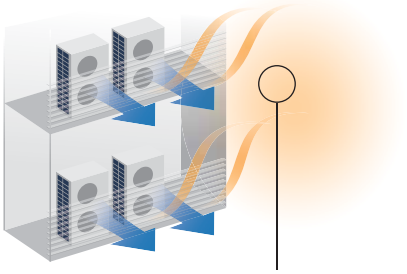


**Heat Accumulated.**
When the pressure is low, hot air will accumulate in the unit thus affecting its work performance and that of unit above it as well.



**Previous fan**

**LE Series - High Pressure**



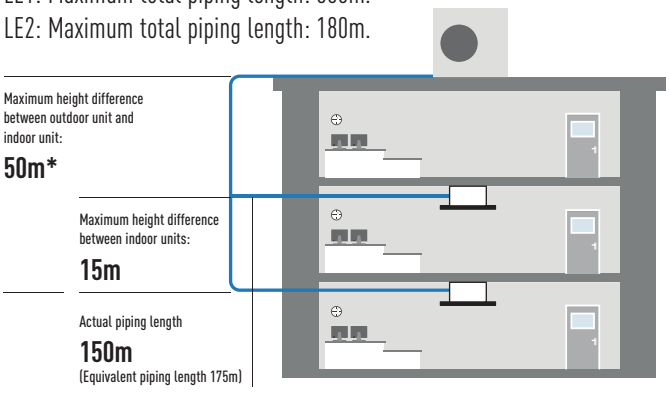
**Heat Discharged.**
But with a high pressure of 35Pa, hot air is sent further away preventing overheating inside the outdoor unit enclosure.



**New LE2's fan**

## Long piping design length for greater design flexibility

LE1: Maximum total piping length: 300m.
LE2: Maximum total piping length: 180m.

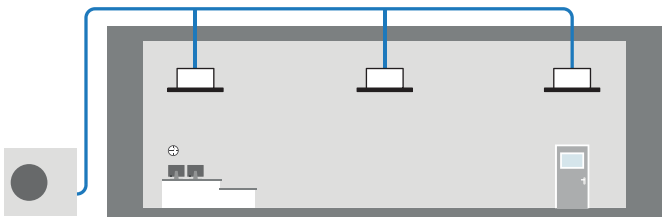



* 40m if the outdoor unit is below the indoor unit.

## Plug & Play concept

**FREE OF CHARGE 50m**

- 50m piping length free of charge
- A 50m pipe length is sufficient for most residential and small business buildings



- Compact space-saving design
- High external static pressure 35Pa
- Long piping length for flexible installation
- No refrigeration charge up to 50m
- 130% ratio for connectable indoor capacity units

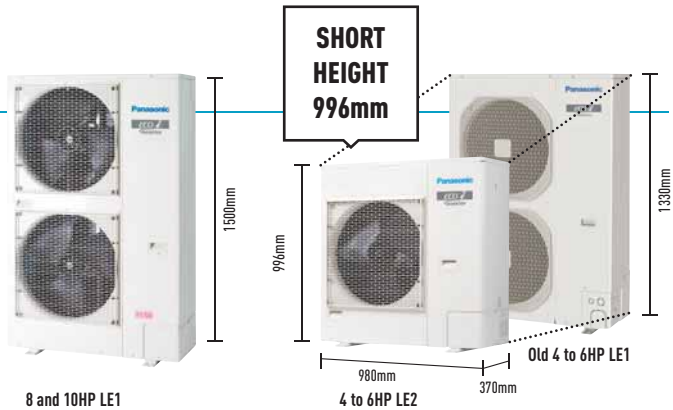
## Up to 15 indoor units connectable

An expansion from Panasonic VRF line up, the mini ECOi is compatible with the same indoor units and controls as the rest of the ECOi range.

## Compact design

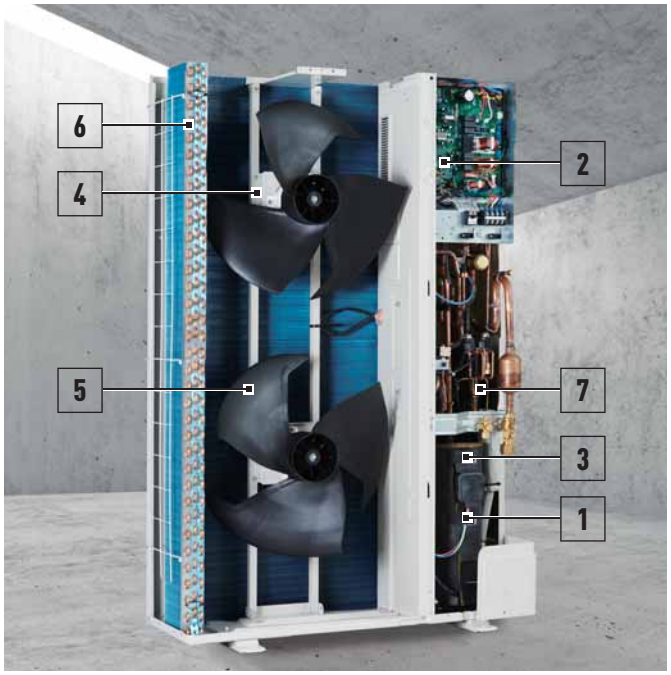
**Mini ECOi LE Series is a single unit.**
Perfect for installations with limited space and easy to hide within a modern building. Flexible space-saving options compared to single split system.

**LE2 short height of 996mm.**
New LE2 Series is 25% smaller in height than conventional model.



# ENERGY CONTROL & RELIABILITY

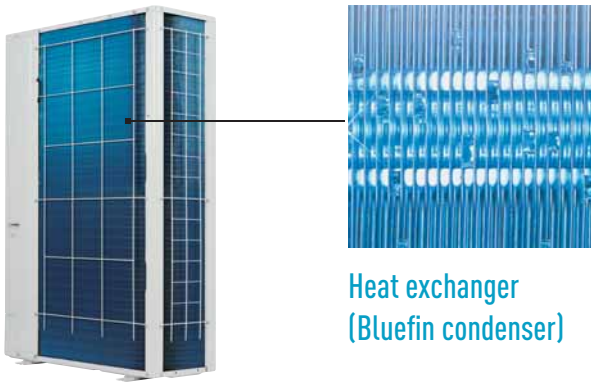
## Energy savings design




1. **Panasonic Inverter Compressor.** A large-capacity inverter compressor has been adopted. The inverter compressor is superior in performance with improved partial-load capacity.
2. **Printed Circuit Board.** The number of PCB is 2 pieces for making maintenance easier.
3. **Accumulator.** A large accumulator has been adopted to maintain compressor reliability because of the increased refrigerant quantity, which allows an extended maximum piping length.
4. **DC Fan Motor.** Checking load and outside temperature, the DC motor is controlled for optimum air volume.
5. **Newly Designed Fan.** The newly designed fan blades have been developed to inhibit air turbulence and to increase efficiency. As fan diameter has been increased its size, the air volume has been increased whilst maintaining a same sound level.
6. **Heat Exchanger & Copper Tubes.** The heat exchanger size and the copper tube sizes in the heat exchanger have been redesigned to increase efficiency.
7. **Oil Separator.** A centrifugal separator has been adopted to improve oil separation efficiency and reduce refrigerant pressure loss.

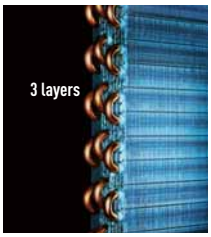
## Bluefin condenser: High durability outdoor unit

The anti-corrosion Bluefin treatment of the heat exchanger provides greater resistance against corrosion. All models are equipped with Bluefin condenser and corrosion-resistance treated for high resistance to rust and salty air to assure long-lasting performance.

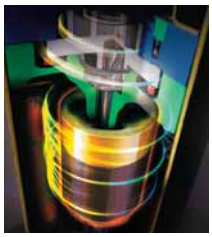


Heat exchanger (Bluefin condenser)

## The new Mini ECOi system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.




**Powerful heat exchanger.**
3 layers of heat exchanger for all LE series. LE Series features the same heat exchange volume as conventional model even though it is 15% smaller in size.



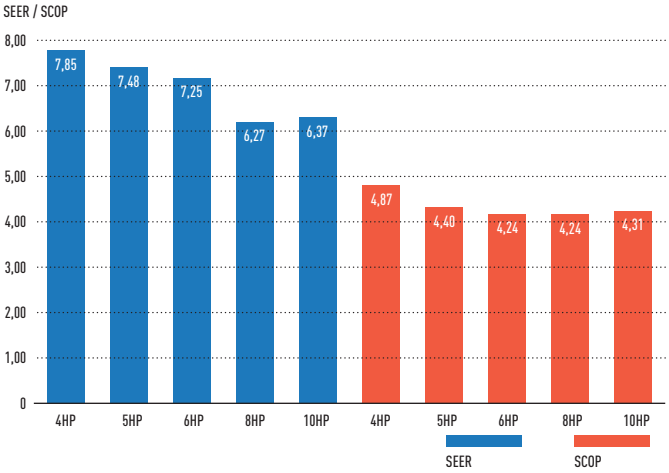
**Panasonic twin Rotary Compressor.**
A large capacity inverter compressor has been adopted. This new compressor features wider and 0,1Hz step inverter control.



**New design fan.**
Fan braves have been redesigned to inhibit air resistance and to increase efficiency. The larger fan increases air volume while maintaining low noise levels.

## Superior seasonal energy efficiency (SEER/SCOP follows LOT21*)

The operation efficiency has been improved using highly efficient R410A refrigerant, a DC Inverter compressor, DC motor and a heat exchanger design.




* SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

## Maximum comfort with quiet operation mode

- Quiet operation mode reduces outdoor unit operating sound by 7dB(A)
- 4-step set point is available
- Silent mode 1 maintains rated cooling capacity

* Timer setting of quiet operation mode is available in High-spec remote controller.

| Silent mode options | Sound pressure level |
|---|---|
| Silent mode 1 | -1,5dB(A) |
| Silent mode 2 | -3dB(A) |
| Silent mode 3 | -5dB(A) |
| Silent mode 4 | -7dB(A) |

# Mini ECOi LE2 Series
# High Efficiency 4 to 6HP



## Panasonic Mini ECOi. Extraordinary energy-saving. The most compact ECOi system ever.

### For light commercial use

Mini ECOi allows easier installation in condominiums and medium sized buildings with limited spaces. Utilising R410A and DC inverter technology, Panasonic offers VRF to a new and growing market.

### Short height of 996m

In addition to raising efficiency, the outdoor unit has been designed to be as compact as possible. It can now be installed in places that were previously too small.

### Technical focus

- Outstanding SEER and SCOP
- Better efficiency even compared to 2 fan outdoor units
- 50m piping length free of refrigeration charge
- 35Pa high static pressure
- High COP mode selectable with maintenance remote controller
- Selectable silent mode

| **HP** | | | **4HP** | **5HP** | **6HP** | **4HP** | **5HP** | **6HP** |
|---|---|---|---|---|---|---|---|---|
| **Outdoor units** | | | **U-4LE2E5** | **U-5LE2E5** | **U-6LE2E5** | **U-4LE2E8** | **U-5LE2E8** | **U-6LE2E8** |
| Power supply | Voltage | V | 220/230/240 | 220/230/240 | 220/230/240 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Single Phase | Single Phase | Single Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 12,10 | 14,00 | 15,50 | 12,10 | 14,00 | 15,50 |
| EER [1] | | W/W | 4,50 | 4,06 | 3,73 | 4,50 | 4,06 | 3,73 |
| **SEER [2]** | | | **7,85** | **7,48** | **7,25** | **7,85** | **7,48** | **7,25** |
| Running current cooling | | A | 13,30/12,70/12,20 | 16,30/15,60/17,00 | 20,30/19,40/18,60 | 4,39/4,17/4,02 | 5,58/5,30/5,11 | 6,71/6,37/6,14 |
| Input power cooling | | kW | 2,69 | 3,45 | 4,15 | 2,69 | 3,45 | 4,15 |
| Heating capacity | | kW | 12,50 | 16,00 | 16,5 | 12,50 | 16,00 | 16,50 |
| COP [1] | | W/W | 5,19 | 4,60 | 4,27 | 5,19 | 4,60 | 4,27 |
| **SCOP [2]** | | | **4,87** | **4,40** | **4,24** | **4,87** | **4,40** | **4,24** |
| Running current heating | | A | 12,20/11,60/11,20 | 17,60/16,80/16,10 | 19,10/18,20/17,50 | 3,98/3,78/3,64 | 5,62/5,34/5,14 | 6,24/5,93/5,71 |
| Input power heating | | kW | 2,41 | 3,48 | 3,86 | 2,41 | 3,48 | 3,86 |
| Starting current | | A | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 |
| Maximum current | | A | 17,30 | 24,30 | 27,40 | 7,90 | 10,10 | 10,70 |
| Maximum input power | | kW | 3,50/3,66/3,82 | 4,92/5,14/5,37 | 5,61/5,86/6,12 | 4,34/5,09/5,28 | 6,25/6,55/6,82 | 6,62/6,97/7,23 |
| Maximum number of connectable indoor units | | | 7 (10) [3] | 8 (10) [3] | 9 (12) [3] | 7 (10) [3] | 8 (10) [3] | 9 (12) [3] |
| External static pressure | | Pa | 0 ~ 35 | 0 ~ 35 | 0 ~ 35 | 0 ~ 35 | 0 ~ 35 | 0 ~ 35 |
| Air volume | | m³/min | 69 | 72 | 74 | 69 | 72 | 74 |
| Sound pressure | Cool | dB(A) | 52 | 53 | 54 | 52 | 53 | 53 |
| | Cool (Silent 1/2/3/4) | dB(A) | 50,5/49/47/45 | 51,5/50/48/46 | 52,5/51/48/46 | 50,5/49/49/47 | 48,5/50/48/46 | 48,5/50/48/46 |
| | Heat | dB(A) | 54 | 56 | 56 | 54 | 56 | 56 |
| Sound power | Cool / Heat | dB | 69/72 | 71/75 | 73/75 | 69/72 | 71/75 | 73/75 |
| Dimension | H x W x D | mm | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 | 996 x 980 x 370 |
| Net weight | | kg | 106 | 106 | 106 | 106 | 106 | 106 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |
| Maximum piping length (total) | | m | 150 (180) | 150 (180) | 150 (180) | 150 (180) | 150 (180) | 150 (180) |
| Elevation difference (in/out) | | m | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 6,70 (14,40) / 13,9896 | 6,70 (14,40) / 13,9896 | 6,70 (14,40) / 13,9896 | 6,70 (14,40) / 13,9896 | 6,70 (14,40) / 13,9896 | 6,70 (14,40) / 13,9896 |
| Maximum allowable indoor / outdoor capacity ratio | | % | 50 ~ 130 | 50 ~ 130 | 50 ~ 130 | 50 ~ 130 | 50 ~ 130 | 50 ~ 130 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | Heat Min ~ Max | °C | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 |

1) EER and COP calculation is based in accordance to EN14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) In case of 1,50kW indoor unit's connection, able to connect maximum 12 indoor units.

INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10°C COOLING MODE | -20°C HEATING MODE | AUTOMATIC RESTART | R22 → R410A R22 RENEWAL | PANASONIC AC SMART CLOUD | OPTIONAL WLAN | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.

# Mini ECOi LE1 Series
# High Efficiency 8 and 10HP



Prepare to be blown away by Panasonic's New Mini VRF system. The Mini VRF compact system is the ideal solution for minimum outdoor space. Panasonic extends the Mini VRF range by 8 and 10HP units.

## Increase external static pressure

When unit is installed on a narrow balcony, the fence at front side will be the obstacle. High external static pressure will overcome this obstacle and maintain operation capacity.

## High ambient temperature performance

Cooling operation range up to 46°C. The system can maintain the rated (100%) capacity up to 40°C by 8HP model & up to 37°C by 10HP model.

## Technical focus

- Piping flexibility with 150m maximum length
- High efficiency
- 15 indoor units connectable
- Quiet operation mode (one of the lowest in the market)
- High ambient temp performance
- High static pressure 35Pa

| HP | | | 8HP | 10HP |
|---|---|---|---|---|
| **Outdoor units** | | | **U-8LE1E8** | **U-100LE1E8** |
| Power supply | Voltage | V | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 |
| Cooling capacity | | kW | 22,40 | 28,00 |
| EER [1] | | W/W | 3,80 | 3,11 |
| **SEER [2]** | | | **6,27** | **6,37** |
| Running current cooling | | A | 9,60/9,15/8,80 | 14,70/14,00/13,50 |
| Input power cooling | | kW | 5,89 | 9,00 |
| Heating capacity | | kW | 25,00 | 28,00 |
| COP [1] | | W/W | 4,02 | 3,93 |
| **SCOP [2]** | | | **4,24** | **4,31** |
| Running current heating | | A | 10,20/9,65/9,30 | 11,60/11,10/10,70 |
| Input power heating | | kW | 6,22 | 7,13 |
| Starting current | | A | 1,00 | 1,00 |
| Maximum current | | A | 13,70 | 19,60 |
| Maximum input power | | kW | 9,16 | 13,10 |
| Maximum number of connectable indoor units | | | 15 [4] | 15 [4] |
| External static pressure | | Pa | 0~35 | 0~35 |
| Air volume | | $m^3$/min | 150 | 160 |
| Sound pressure | Cool | dB(A) | 60 | 63 |
| | Cool (Silent 1/2/3/4) | dB(A) | 57/55/53 | 60/58/56 |
| | Heat | dB(A) | 64 | 65 |
| Sound power | Cool / Heat | dB | 81/85 | 84/86 |
| Dimension | H x W x D | mm | 1500x980x370 | 1500x980x370 |
| Net weight | | kg | 132 | 133 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) [5] / 1/2 (12,70) [6] | 3/8 (9,52) [5] / 1/2 (12,70) [6] |
| | Gas pipe | Inch (mm) | 3/4 (19,05) [5] / 7/8 (22,22) [6] | 7/8 (22,22) [5] / 1 (25,40) [6] |
| Maximum piping length (total) | | m | 7,5~150 (7,5~300) | 7,5~150 (7,5~300) |
| Elevation difference (in/out) | | m | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) | 50 (Outdoor unit upper) / 40 (Outdoor unit lower) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 6,30 (24,00) / 13,1544 | 6,60 (24,00) / 13,7808 |
| Maximum allowable indoor / outdoor capacity ratio | | % | 50~130 | 50~130 |
| Operating range | Cool Min ~ Max | °C | -10~+46 | -10~+46 |
| | Heat Min ~ Max | °C | -20~+18 | -20~+18 |

1) EER and COP calculation is based in accordance to EN14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) In case of 1,50kW indoor unit's connection, able to connect maximum 12 indoor units. 4) If the heating utilized, it is necessary to increase 1 size with respect to the main liquid pipe, depending on the combination of the indoor unit. 5) Under 90m for ultimate indoor unit. 6) Over 90m for ultimate indoor unit. If the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas and liquid pipes.

INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10°C COOLING MODE | -20°C HEATING MODE | AUTOMATIC RESTART | R22 → R410A R22 RENEWAL | PANASONIC AC SMART CLOUD | OPTIONAL WLAN | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# ECOi EX
# THE GAME CHANGER



VRF with outstanding energy-saving performance and powerful operation SEER 7,56 (2-Pipe 18HP model).

A game-changing VRF system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.
It represents a true paradigm shift in air conditioning solutions. Taking quality to the extreme — that's the Panasonic challenge.

## 1 High performance at extreme conditions

ECOi EX is highly reliable, with strong cooling & heating power, even when operating at extreme ambient temperatures. The units can operate at 100% of capacity at 43°C, reaching a great cooling operation up to 52°C and in heating -25°C*.
Also, the ECOi EX features include Bluefin in newly designed heat exchanger improving efficiency as well in marine ambient. A silicone coated PCB (Printed Circuit Board) protects the unit from being damaged by environmental factors such as moisture and dust.

## 2 Outstanding efficiency and comfort

The new ECOi EX system is designed to increase energy efficiency by delivering high SEER rating, as well as high efficiency for part-load operations.
The system has reduced energy costs thanks to "All-Inverter Compressors", with independent control to deliver highly flexible performance. Also, the ECOi EX features an enlarged heat exchanger with triple surfaces that allow for improved heat transfer and a newly designed curved air discharge bell-mouth for better aerodynamics.
The three-stage oil recovery design makes it able to minimise the frequency of forced oil recovery, leading to reduced energy costs and sustained comfort.

## 3 Superior flexibility

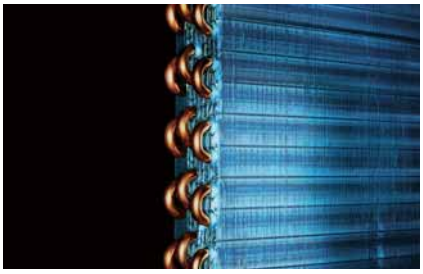
With its up to 1000* meters of pipeline, its maximum 30 meters height difference between indoor units and its 200 meters length, the design possibilities have grown exponentially making the new ECOi EX the ideal air conditioning option for long haul buildings, such as train stations, airports, schools or hospitals. These advantages are enhanced with the wide range of indoor unit models and capacities facilitating the perfect adaptation to all kind of projects. The careful selection of controls and peripherals such as the Pump Down, the AHU or/and the chiller, enables an optimum system use.
Connectable maximum allowable indoor / outdoor capacity ratio up to 200%*.

* Conditions of 2-Pipe ECOi EX ME2 Series.



# TOP EFFICIENCY AND COMFORT

## Remarkable improvement on key components: extraordinary energy-saving performance and redesigned for smooth and better air discharge.



Enlarged heat exchanger surface area with triple surface.

* For 8 & 10HP unit, the heat exchanger is 2 row design.



Multiple large-capacity all inverter compressors (more than 14HP).



Newly designed curved air discharge bell mouth for better aerodynamics.

### Improvements on refrigerant circuit

**Compressor.**
Redesigned components in the body provide performance improvement especially in the rated cooling condition and AEER performance.



**Accumulator.**
New oil returning circuit with control valve makes efficient oil recovery to compressor.

**Oil separator.**
Modified tank design makes efficient oil separation with less pressure drop.

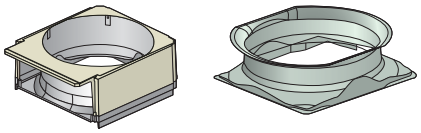


**Receiver tank less design**
Improved refrigerant control program recovers the remaining refrigerant gas in the system back to the accumulator tank effectively.

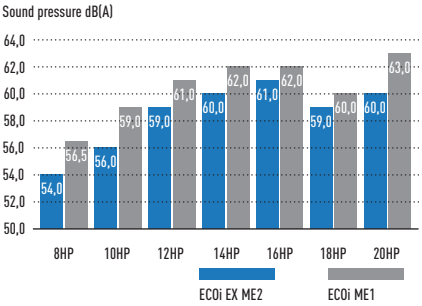



### Smooth exhaust flow by new bell-mouth

The new curved shape with integrated top and bottom assure smooth exhaust flow.
This gives more air-volume with same sound level, less input power at same air volume.



Conventional model (ME1) | New model (ME2)




### Combined 3 surface heat exchanger

The highly efficient piping pattern increases heat exchange performance by 5%.
The new heat exchanger features a 3 surface construction.
Compared to the divided dual-surface construction in current models, there is no divided space and the face area of heat exchanger becomes larger.



Conventional model (ME1) | New model (ME2)

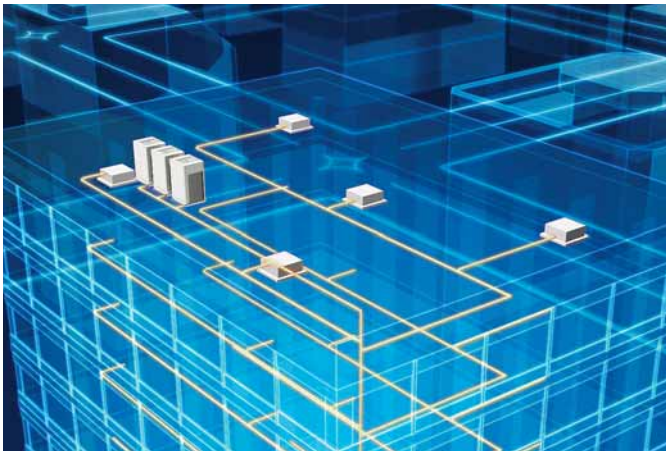
# OIL RECOVERY INTELLIGENT CONTROL

## Intelligent 3-stage Oil Management System

In a VRF system, where lengthy piping and a large number of indoor units need to be controlled collectively, the key to maintaining the system's reliability is to ensure an appropriate amount of oil is secured in the compressors. In order to avoid oil shortage in the compressor, maximum operation is normally forcibly conducted at regular intervals to recover oil from indoor units. This method, typically employed in a standard VRF, causes the system to overheat or overcool and thus waste energy.
In Panasonic VRF systems, a sensor for detecting oil levels is mounted in each compressor. In installations with multiple outdoor units, a shortage of oil in one compressor can be compensated for by recovering oil either from another compressor in the same unit, from a compressor in an adjacent outdoor unit, or from a connected indoor unit. Panasonic VRF systems provide users with a comfortable environment whilst saving energy.

### Oil recovery intelligent control advantages:

1. Higher efficiency
2. Durability
3. Comfort:
   - Continuous operation
   - Low noise
   - Low vibration

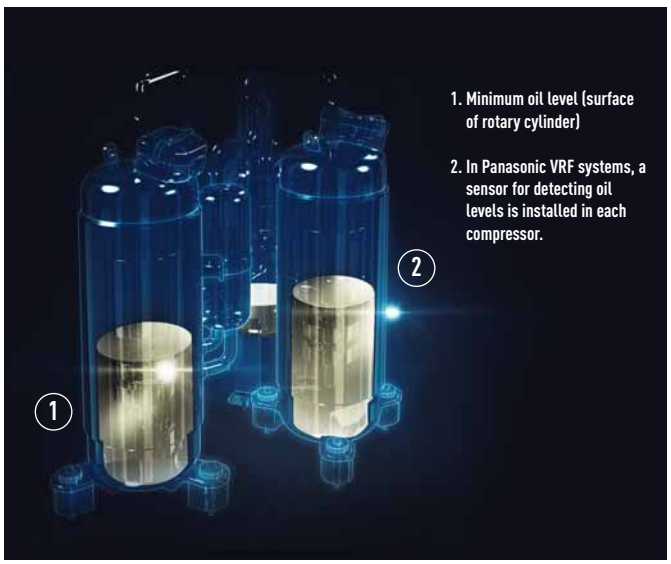


**The Panasonic system efficiently manages oil recovery in three stages; minimising the frequency of forced oil recovery while reducing energy cost and maintaining comfort.**

**STAGE-1:** Panasonic compressors are equipped with sensors which monitor oil levels precisely at all times. If oil levels fall, oil can be transferred from other compressors within the same outdoor unit.
**STAGE-2:** If oil levels in all compressors within the outdoor unit fall, oil can be replenished from adjacent outdoor units.
**STAGE-3:** Forced oil recovery is implemented only if oil levels become insufficient in spite of above measures. The Panasonic system's design concept is radically different from conventional oil systems.

## Features of oil recovery design

**Oil sensors installed in each compressor.**
Oil sensors installed in each Panasonic compressor precisely monitor oil levels, eliminating unnecessary oil recovery.




**Highly functional oil separator.**
Thanks to extended separate piping, oil recovery efficiency reaches 90%, minimising the oil to be discharged from the compressor.



# TWIN ROTARY INVERTER COMPRESSOR

## New twin rotary inverter compressor

Two independently controlled inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.

- Wider and flexible control on Inverter compressor
- Better oil lubrication
- Smooth start up



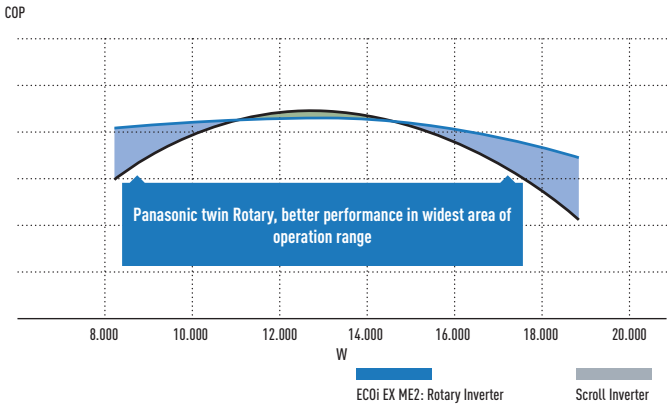
## Extraordinary energy-saving performance

Designed for Actual Operation Performance. Panasonic builds air conditioning systems not only with a high EER for rated operation, but also with Seasonal-EER appropriate to the customer's actual environment of use. For instance, with rated operation, outdoor temperature is constant at 35°C, but in reality the outdoor temperature is continuously changing. Consequently, required air conditioning performance also changes. That's why Panasonic implements the following kind of proprietary control.

1. Set temperature is rapidly attained; full-load operating time is kept to a minimum.
2. The frequency of forced oil recovery is minimised. The volume of oil within the compressors is monitored precisely by sensors, so forced oil recovery under full-load operation is conducted only when necessary. Since this suppresses noise due to oil recovery, comfort is maintained.
3. Panasonic pursues a high EER, of course, as well as high EER in part load, for energy saving performance under a broad range of loads.

Panasonic's design concept contributes to substantial energy cost reductions.

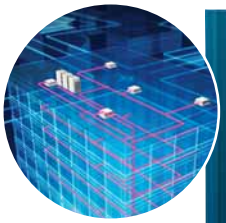
### Compressor efficiency electric system VRF.

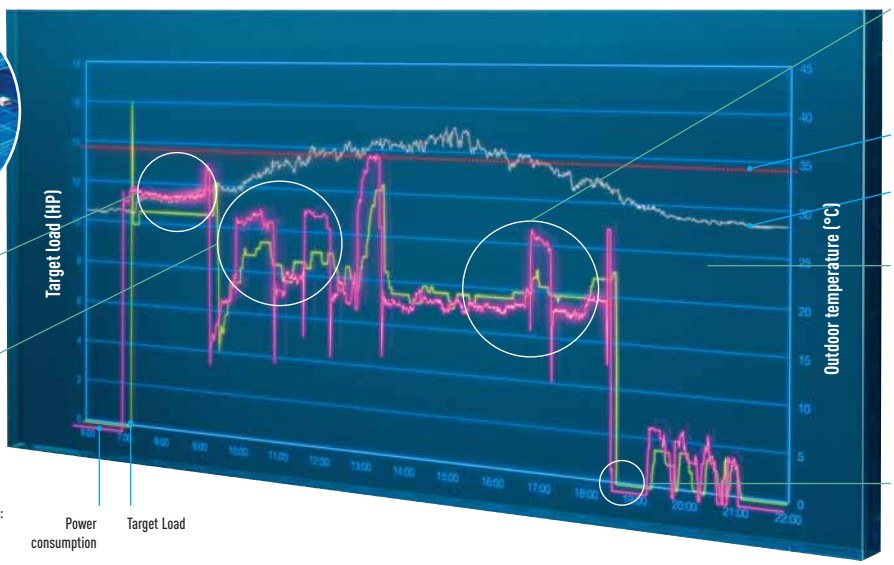



### Number of Inverter compressors

| | 2-Pipe ECOi EX ME2 | | | | | | | 3-Pipe ECOi EX MF3 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Size** | **Small** | | **Medium** | | | **Large** | | **Medium** | | | | |
| **HP** | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 8HP | 10HP | 12HP | 14HP | 16HP |
| **Number** | 1 pc. | | 1 pc. | 2 pcs. | | 2 pcs. | | 1 pc. | | | 2 pcs. | |

## Actual operation data graph of Panasonic VRF






Rapidly reaches set temperature full-load operation duration minimised

Load increased as required for a given outdoor temperature increase to maintain the set temperature

Set temperature maintained with minimum load operation

Rated outdoor condition

Actual outdoor temperature

Thanks to superior oil management, oil recovery is minimised, contributing to reduced energy use and costs

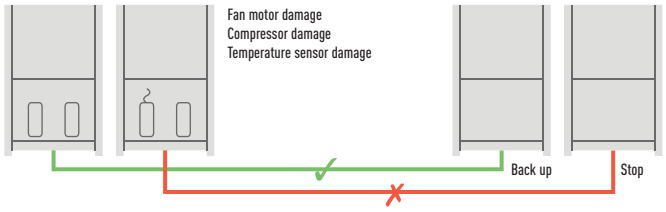
When outdoor temperature drops, operation is immediately stopped

Actual performance data of Panasonic VRF installed in Asia. Simulated conditions. Location: Panasonic building in Malaysia. System: One 16HP outdoor unit, 4 Cassette-type indoor units.

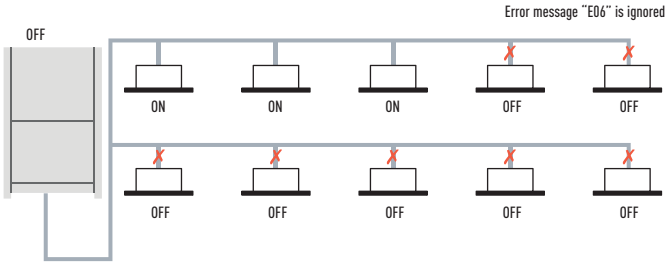
# SUPERIOR QUALITY, RELIABILITY AND DURABILITY

## High safety operation in case of breakdown!

**Automatic Back-Up operation. Ensures heating and cooling.**
It is possible for the system to keep working, even if the compressors, fan motor and the temperature sensor are damaged (even when a compressor fails in single unit with 2 compressors inside).




**The system will still operate up to 25% of the connected indoor units.**
System will not stop when up to 25% of indoor units have power supply breakdown when they are ON Mode.

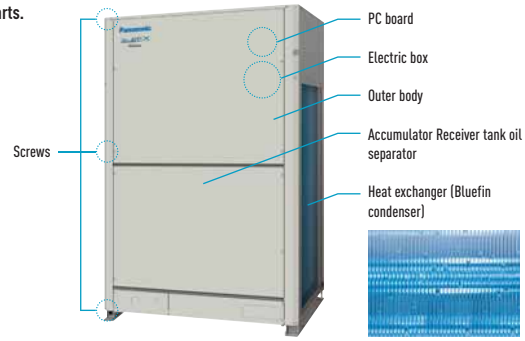



## Hi-durability outdoor unit

Treated for high resistance to corrosion (rust and salty air) to ensure long-lasting performance.

Note: Selecting this unit does not completely eliminate the possibility of rust developing. For details concerning unit installation and maintenance, please consult an authorised dealer.

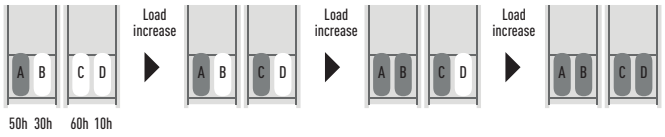
**Specially protected parts.**




## Extended compressor life by uniform compressor operation time

The total run-time of compressors are monitored by a built-in microcomputer, which ensures that operation times of all compressors within the same refrigerant circuit are balanced.
Compressors with histories showing shorter run times are selected first, ensuring equal wear and tear across all units and extending the working life of the system.

**System example.**
A,C: DC inverter compressor
B,D: Constant speed compressor




* Depend on accumulated operation time of each compressors.
* Compressor priority has possibility to be changed.
(e.g) Case 1: A→C→B→D, Case 2: C→A→D→B, Case 3: A→C→D→B, Case 4: C→A→B→D
* Also other cases available.

## A large number of indoor unit models can be connected



# 2-PIPE ECOi EX ME2 SERIES EXTRAORDINARY PARTIAL LOAD AND SEER/SCOP

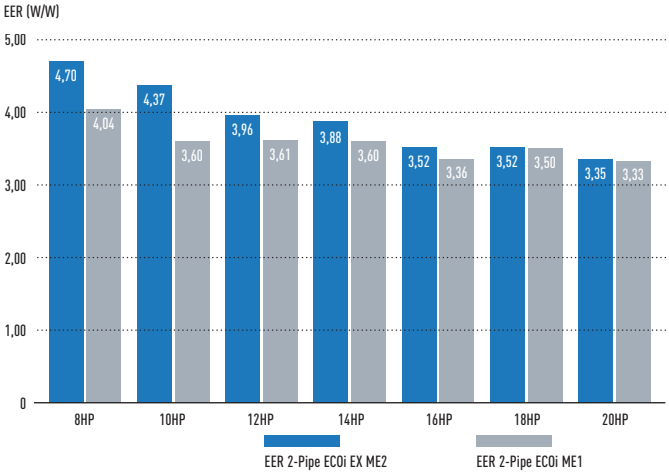
## Efficiency in VRF systems

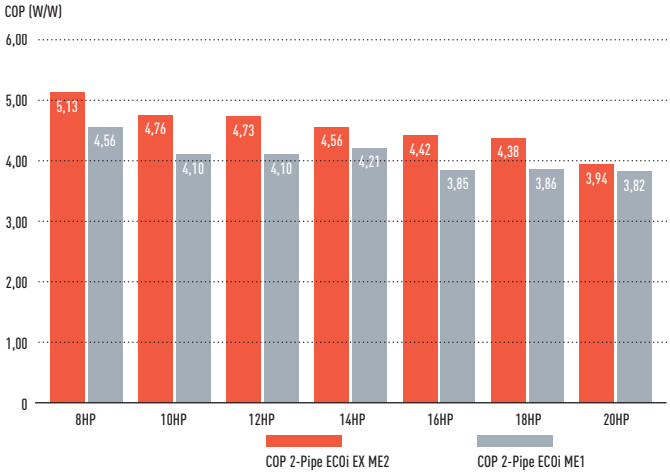
The only way to compare so far, was the nominal efficiency at outdoor ambient temperature of 35°C (EER) in Cooling and at 7°C in heating (COP). With new EN-14825 seasonal efficiency will be shown, the result will be SEER and SCOP. New ECOi EX is reaching excellent performance without using any additional saving functions.

## The highest EER/COP rating in most capacities

### Compared to conventional model ECOi (ME1)

The ECOi EX marks a revolutionary step forward in VRF efficiency. A look at the incredible EER/COP value clearly indicates that. What's more, this high EER/COP value is achieved even during part load operation. This shows the extraordinary energy-saving performance the ECOi EX is capable of providing.



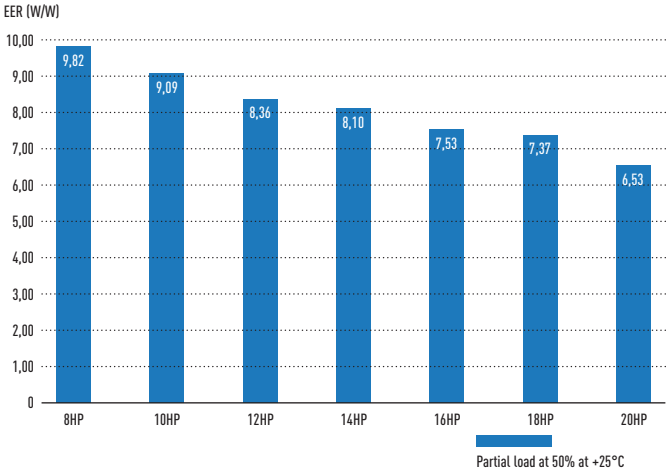



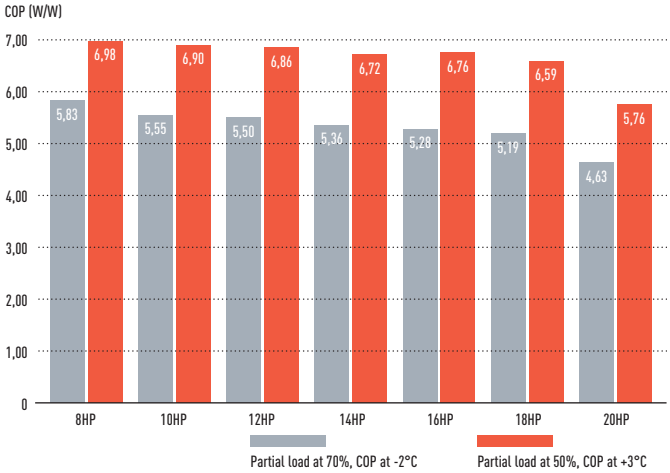

## Partial load for seasonal and real system efficiency

VRF units are designed to adapt to the heating and cooling demand, adapting its performance to different outdoor conditions. When compressor runs at lower than 100% capacity, the system is working at partial load. A wider compressor operating range results in better system performance both at full load and partial load conditions. Panasonic ECOi EX partial load is excellent, reaching a minimum of 15% of compressor capacity.

## Excellent efficiency at any condition and partial load

In both heating and cooling mode, Panasonic ECOi EX is reaching exceptional levels of efficiency.

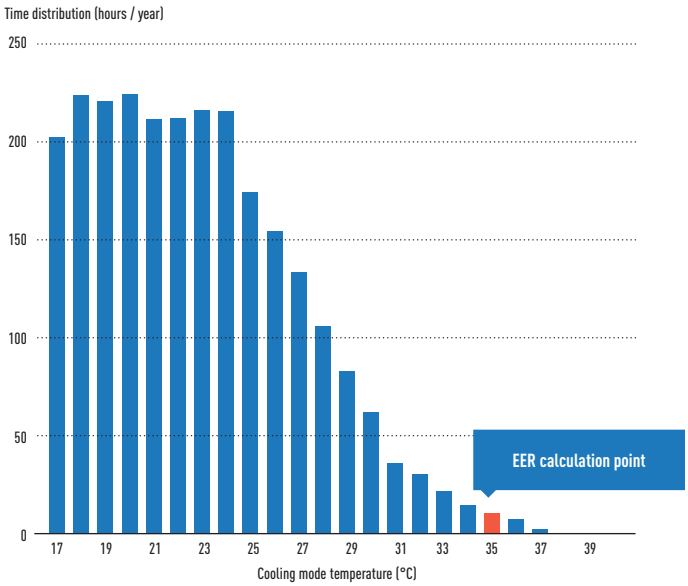


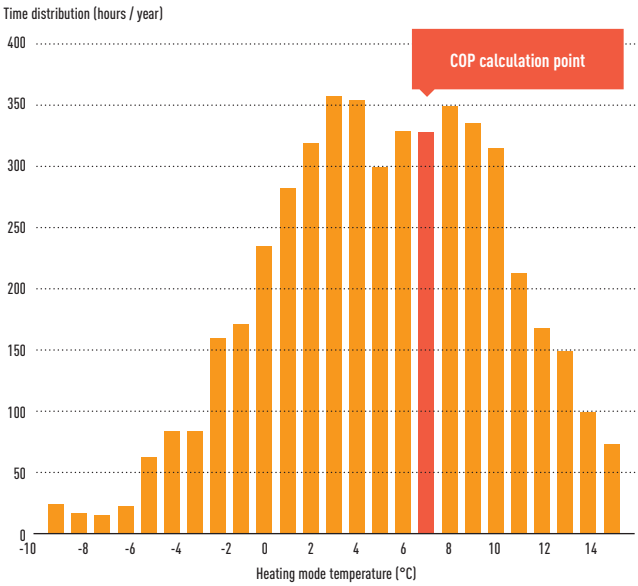
## SEER and SCOP following to EN-14825

When better partial load, better efficiency is achieved in real operation. New EN-14825 is showing the way to calculate considering full year operation hours at different conditions. New Panasonic ECOi EX is designed to save energy in any partial load conditions. Most of operation hours system is under partial load conditions, 80% of total operation hours is less than 70% of full load.
In below graphs is the example for average ambient conditions, this uses Strasbourg ambient conditions for calculation.

**Outside temperature distribution**




**Outside temperature distribution**




In the characteristics EER and COP only a single temperature for the assessment of the efficiency is taken as a basis in each case. Data calculated under EN-14825 conditions, not additional saving function considered for this calculation.
Compressor frequency according to ambient temperature and building design.

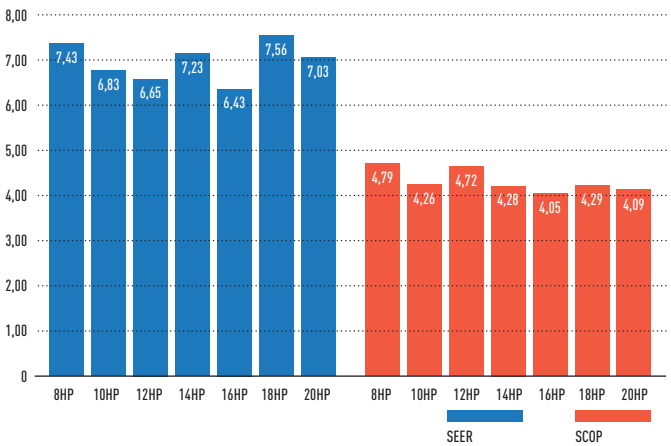
## SEER and SCOP values

ECOi EX models have superior seasonal space cooling/heating efficiency following not only EN 14825 but also COMMISSION REGULATION (EU) 2016/2281. This regulation requires to use "$\eta$" values in the technical documents from January 2018.

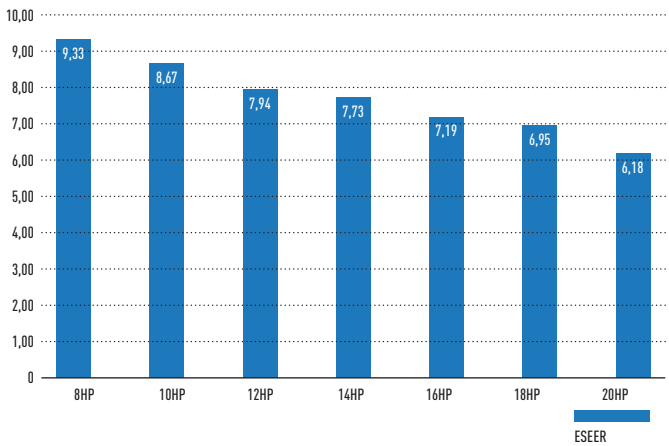
Please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

**However, if it was necessary by setting on commissioning Panasonic, can increase efficiency additionally by "20%" increasing evaporation refrigerant temperature range, for a higher efficiency and lower energy consumption.**

SEER / SCOP



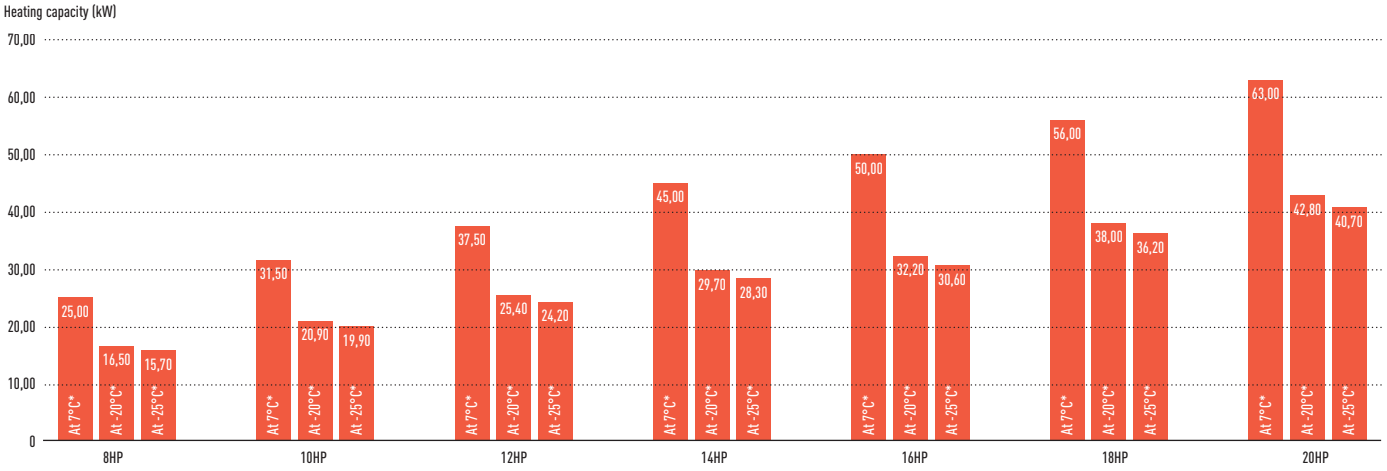

ESEER (W/W)



# 2-PIPE ECOi EX ME2 SERIES HIGH PERFORMANCE AT EXTREME CONDITIONS

The ECOi EX can still operate at 100% capacity when the outside temperature is as high as 43°C. This high power capability enables reliable operation even under extremely high temperature conditions.

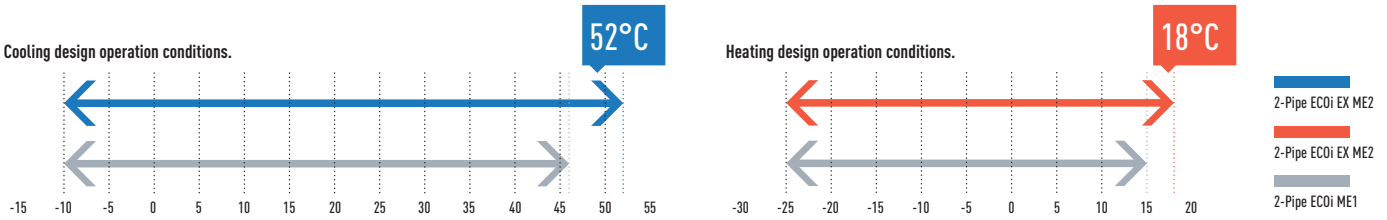
## Extremely high capacity at -20°C and unique heating capacity at -25°C




* Outdoor air temperature (°C WB).

## Trusted reliability even under high and low temperature conditions

Designed to be durable enough to withstand extreme heat, 2-Pipe ECOi EX ME2 Series ensures reliable cooling operation over an extended operation range up to 52°C, and heating operation also at minus -25°C.




Cooling: Outside air temperature ˚C (DB). Heating: Outside air temperature ˚C ( WB).



# 2-PIPE ECOi EX ME2 SERIES
# SUPERIOR FLEXIBILITY

## Connectable maximum allowable indoor / outdoor capacity ratio up to 200%*

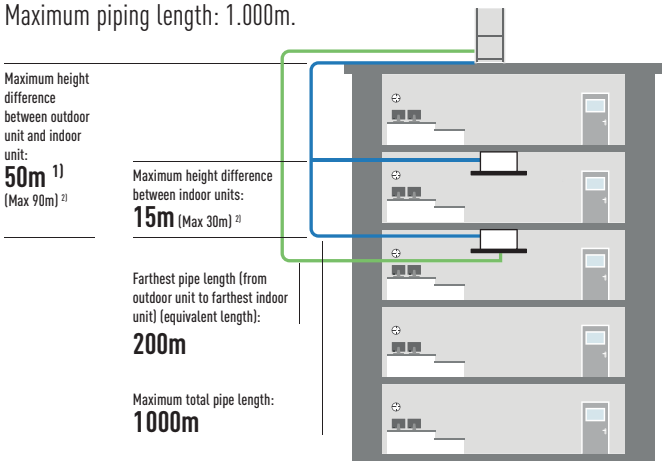
ECOi EX attain maximum indoor unit connection capacity of up to 130% of the unit's connection range. This limit can be overpassed and reach up to 200% if some conditions are satisfied. With this feature, ECOi EX provides an ideal air conditioning solution for locations where full cooling/heating are not always required in all spaces at same time.

| System ( HP) | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 | 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Connectable indoor units: 130% | 13 | 16 | 19 | 23 | 26 | 29 | 33 | 36 | 40 | 43 | 46 | 50 | 53 | 56 | 59 | 64 | | | | | | | | | | | | | | | | | | | | | |
| Connectable indoor units: 200% | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: If more than 100% indoor units are operated with a high load, the units may not perform at the rated capacity. For the details, please consult with an authorised Panasonic dealer. * If the following conditions are satisfied, the effective range is above 130% up to 200%. Obey the limited number of connectable indoor units. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). Simultaneous operation is limited to less than 130% of connectable indoor units. 1,50kW capacity of Indoor Units are included.

## Increased piping lengths and design flexibility

Adaptable to various building types and sizes. Actual piping length: 200m. Maximum piping length: 1.000m.

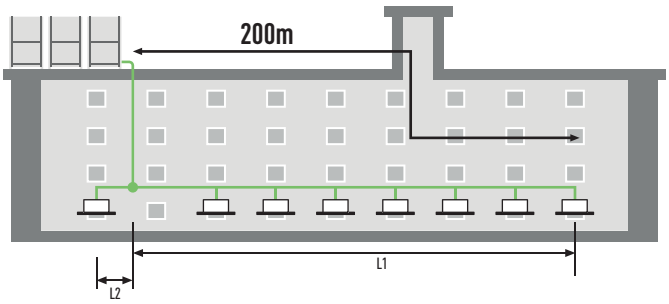



1) 40m if the outdoor unit is below the indoor unit.
2) Setting change is necessary. Please contact an authorized Panasonic dealer in the case of conditions below:
50 < Height difference between OU and IU ≤ 90 or 15 < Height difference between IUs ≤ 30.

## Up to 50m length difference between the longest and the shortest piping from the first branch

Flexible piping layout makes it easier to design systems for locations such as train stations, airports, schools and hospitals.

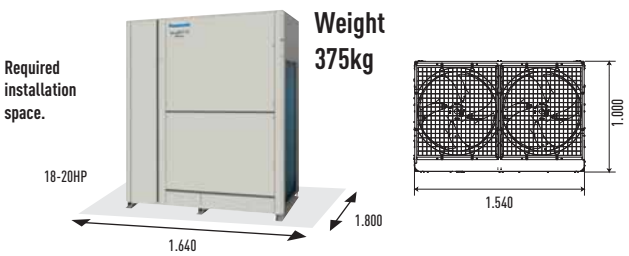
- Up to 64 units can be connected to one system
- Difference between maximum and minimum pipe runs after first branch can be a maximum of 50m
- Larger pipe runs can be up to 200m




L1 = Longest pipe run. L2 = Shortest pipe run. L1 - L2 = Maximum 50m.

## Compact design

The ME2 series has reduced the installation space required with up to 20HP available in a single chassis. 8 - 10HP are able to fit inside a lift for easy handling on site.



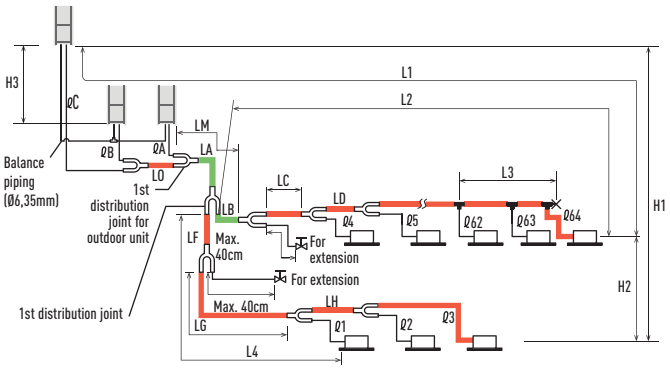




(Unit: mm)

# 2-PIPE ECOi EX ME2 SERIES PIPING DESIGN

Select installation locations so that the lengths and sizes of refrigerant piping are within the allowable ranges shown in the figure below.




Main piping length (maximum piping size) LM= LA + LB ...

Main distribution tubes LC – LH are selected according to the capacity after the distribution joint.

Sizes of indoor unit connection piping Ø1 – Ø64 are determined by the connection piping sizes on the indoor units.

Distribution joint (CZ: optional parts).

T-joint (field supply).

Ball valve (field supply).

Solidly welded shut (pinch weld).

The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends.
Note: Be sure to use special R410A distribution joints (CZ: optional parts) for outdoor unit connections and piping branches.

**R410A distribution joint.**
CZ-P680PH2BM (for outdoor unit)
CZ-P1350PH2BM (for outdoor unit)
CZ-P160BK2BM (for indoor unit)
CZ-P680BK2BM (for indoor unit)
CZ-P1350BK2BM (for indoor unit)

**Ranges that apply to refrigerant piping lengths and to differences in installation heights**

| Items | Mark | Contents | | Length (m) |
|---|---|---|---|---|
| Allowable piping length | L1 | Maximum piping length | Actual length | ≤200[1] |
| | | | Equivalent length | ≤210[1] |
| | Δ L (L2-L4) | Difference between maximum length and minimum length from the 1st distribution joint | | ≤50[2] |
| | LM | Maximum length of main piping (at maximum size) * Even after 1st distribution joint, LM is allowed if at maximum piping length. | | —[3] |
| | Ø1, Ø2~ Ø64 | Maximum length of each distribution tube | | ≤50[4] |
| | L1+ Ø1+ Ø2~ Ø63+ ØA+ØB+LF+LG+LH | Total maximum piping length including length of each distribution tube (only liquid piping) | | ≤1000 |
| | ØA, ØB+LO, ØC+LO | Maximum piping length from outdoor's 1st distribution joint to each outdoor unit | | ≤10 |
| Allowable elevation difference | H1 | When outdoor unit is installed higher than indoor unit | | ≤50 |
| | | When outdoor unit is installed lower than indoor unit | | ≤40 |
| | H2 | Maximum difference between indoor units | | ≤15 |
| | H3 | Maximum difference between outdoor units | | ≤4 |
| Allowable length of joint piping | L3 | T-joint piping (field-supply); Maximum piping length between the first T-joint and solidly welded-shut end point | | ≤2 |

L = Length, H = Height

1) If the longest piping length (L1) exceeds 90m (equivalent length), increase the sizes of the main tubes (LM) by 1 rank for gas tubes and liquid tubes. Use a field supply reducer. Select the tube size from the table of main piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 8). 2) When the piping length exceeds 40m, increase a longer liquid or gas piping by 1 rank. Refer to the Technical Data for the details. 3) If the longest main piping length (LM) exceeds 50m, increase the main piping size at the portion before 50m by 1 rank for the gas tubes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50m, set based on the main piping size (LA) listed in Table 3. 4) If any of the piping length exceeds 30m, increase the size of the liquid and gas tubes by 1 rank. 5) If the total distribution piping length exceeds 500m, maximum allowable elevation difference (H2) between the indoor units is calculated by the following formula. Make sure the indoor unit's actual elevation difference should fall within the figure calculated as follows. Unit of account (meter): 15 x (2 - total piping length (m) ÷ 500).
* The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends. If the size of the existing piping is already larger than the standard piping size, it is not necessary to further increase the size.
** If the existing piping is used, and the amount of on-site refrigerant charge exceeds the value listed below, then change the size of the piping to reduce the amount of refrigerant. Total amount of refrigerant for the system with 1 outdoor unit: 50kg. Total amount of refrigerant for the system with 2 outdoor units: 80kg. Total amount of refrigerant for the system with 3 outdoor units or 4 outdoor units: 105kg.

## Necessary amount of additional refrigerant charge per outdoor unit.

| U-8ME2E8 | U-10ME2E8 | U-12ME2E8 | U-14ME2E8 | U-16ME2E8 |
|---|---|---|---|---|
| 5,5kg | 5,5kg | 7,0kg | 7,0kg | 7,0kg |

## System limitations.

| | |
|---|---|
| Maximum number allowable connected outdoor units | 4[1] |
| Maximum capacity allowable connected outdoor units | 224kW (80HP) |
| Maximum connectable indoor units | 64[2] |
| Maximum allowable indoor / outdoor capacity ratio | 50-130%[3] |

1) Up to 4 units can be connected if the system has been extended.
2) In the case of 38HP or smaller units, the number is limited by the total capacity of the connected indoor units.
3) If the following conditions are satisfied, the effective range is above 130% and below 200%.
A) Obey the limited number of connectable indoor units. B) The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C) Simultaneous operation is limited to less than 130% of connectable indoor units.

## Additional refrigerant charge.

| Liquid piping size Inch (mm) | Amount of refrigerant charge/m (g/m) |
|---|---|
| 1/4 (6,35) | 26 |
| 3/8 (9,52) | 56 |
| 1/2 (12,70) | 128 |
| 5/8 (15,88) | 185 |
| 3/4 (19,05) | 259 |
| 7/8 (22,22) | 366 |
| 1 (25,40) | 490 |

## Refrigerant piping (existing piping can be used).

| Piping size (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material Temper - O | | | | | | Material Temper - 1/2 H, H | | | | | | | |
| Ø6,35 | t 0,8 | Ø12,70 | t 0,8 | Ø19,05 | t 1,2 | Ø22,22 | t 1,0 | Ø28,58 | t 1,0 | Ø38,10 | over t 1,35 | Ø44,45 | over t1,55 |
| Ø9,52 | t 0,8 | Ø15,88 | t 1,0 | | | Ø25,40 | t 1,0 | Ø31,75 | t 1,1 | Ø41,28 | over t 1,45 | Ø44,45 | over t1,55 |

* When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.

# 2-Pipe ECOi EX ME2 Series



## A VRF system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible. It represents a true paradigm shift in air conditioning solutions

VRF with outstanding energy-saving performance and powerful operation SEER 7,56 (18HP model).

## Technical focus

- New twin rotary inverter compressor
- High performance at extreme conditions
- Outstanding efficiency and comfort
- Extraordinary partial load and SEER/SCOP
- SEER and SCOP following to EN-14825
- Oil recovery intelligent control
- Top comfort
- Superior flexibility
- Bluefin full line up EX
- Extremely high capacity at -20°C and unique heating capacity at -25°C
- Smooth exhaust flow by new bell-mouth

| | | | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP |
|---|---|---|---|---|---|---|---|---|---|
| **Outdoor Units** | | | **U-8ME2E8** | **U-10ME2E8** | **U-12ME2E8** | **U-14ME2E8** | **U-16ME2E8** | **U-18ME2E8** | **U-20ME2E8** |
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 22,40 | 28,00 | 33,50 | 40,00 | 45,00 | 50,00 | 56,00 |
| EER [1] | | W/W | 4,70 | 4,37 | 3,96 | 3,88 | 3,52 | 3,52 | 3,35 |
| ESEER | | W/W | 9,33 | 8,67 | 7,94 | 7,73 | 7,19 | 6,95 | 6,18 |
| **SEER [2]** | | | **7,43** | **6,83** | **6,65** | **7,23** | **6,43** | **7,56** | **7,03** |
| Running current cooling | | A | 7,40/7,14 | 10,20/9,80 | 13,00/12,50 | 16,50/15,90 | 20,10/19,40 | 22,00/21,20 | 25,40/24,50 |
| Input power cooling | | kW | 4,77 | 6,41 | 8,47 | 10,30 | 12,80 | 14,20 | 16,70 |
| Heating capacity | | kW | 25,00 | 31,50 | 37,50 | 45,00 | 50,00 | 56,00 | 63,00 |
| COP [1] | | W/W | 5,13 | 4,76 | 4,73 | 4,56 | 4,42 | 4,38 | 3,94 |
| **SCOP [2]** | | | **4,79** | **4,26** | **4,72** | **4,28** | **4,05** | **4,29** | **4,09** |
| Running current heating | | A | 7,56/7,29 | 10,50/11,10 | 12,30/11,80 | 15,80/15,20 | 17,90/17,30 | 20,10/19,40 | 24,60/23,70 |
| Input power heating | | kW | 4,87 | 6,62 | 7,92 | 9,86 | 11,30 | 12,80 | 16,00 |
| Starting current | | A | 1,00 | 1,00 | 1,00 | 2,00 | 2,00 | 2,00 | 2,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | $m^3$/min | 224 | 224 | 232 | 232 | 232 | 405 | 405 |
| Sound pressure | Normal mode | dB(A) | 54 | 56 | 59 | 60 | 61 | 59 | 60 |
| | Silent mode | dB(A) | 51 | 53 | 56 | 57 | 58 | 56 | 57 |
| Sound power | Normal mode | dB | 75 | 77 | 80 | 81 | 82 | 80 | 81 |
| Dimension | H x W x D | mm | 1842 x 770 x 1000 | 1842 x 770 x 1000 | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 | 1842 x 1540 x 1000 | 1842 x 1540 x 1000 |
| Net weight | | kg | 210 | 210 | 270 | 315 | 315 | 375 | 375 |
| Piping connections [3] | Liquid pipe | Inch (mm) | 3/8 (9,52) / 1/2 (12,70) | 3/8 (9,52) / 1/2 (12,70) | 1/2 (12,70) / 5/8 (15,88) | 1/2 (12,70) / 5/8 (15,88) | 1/2 (12,70) / 5/8 (15,88) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) |
| | Gas pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 7/8 (22,22) / 1 (25,40) | 1 (25,40) / 1-1/8 (28,58) | 1 (25,40) / 1-1/8 (28,58) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 5,60/11,6928 | 5,60/11,6928 | 8,30/17,3304 | 8,30/17,3304 | 8,30/17,3304 | 9,50/19,836 | 9,50/19,836 |
| Maximum allowable indoor / outdoor capacity ratio % [4] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 |

1) EER and COP calculation is based in accordance to EN14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.




Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 2-Pipe ECOi EX ME2 Series
# High Efficiency model combination from 18 to 64HP

| Model name | | | 18HP<br>U-8ME2E8<br>U-10ME2E8 | 20HP<br>U-10ME2E8<br>U-10ME2E8 | 22HP<br>U-10ME2E8<br>U-12ME2E8 | 24HP<br>U-12ME2E8<br>U-12ME2E8 | 26HP<br>U-10ME2E8<br>U-16ME2E8 | 28HP<br>U-12ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 50,00 | 56,00 | 61,50 | 68,00 | 73,00 | 78,50 |
| EER [1] | | W/W | 4,55 | 4,38 | 4,13 | 3,93 | 3,80 | 3,69 |
| Running current cooling | | A | 17,30/16,60 | 20,30/19,60 | 23,10/22,30 | 26,60/25,60 | 30,10/29,00 | 33,10/31,90 |
| Input power cooling | | kW | 11,00 | 12,80 | 14,90 | 17,30 | 19,20 | 21,30 |
| Heating capacity | | kW | 56,00 | 63,00 | 69,00 | 76,50 | 81,50 | 87,50 |
| COP [1] | | W/W | 4,96 | 4,77 | 4,76 | 4,69 | 4,55 | 4,56 |
| Running current heating | | A | 17,70/17,10 | 20,90/20,20 | 22,70/21,90 | 25,30/24,40 | 28,40/27,40 | 30,10/29,00 |
| Input power heating | | kW | 11,30 | 13,20 | 14,50 | 16,30 | 17,90 | 19,20 |
| Starting current | | A | 2,00 | 2,00 | 2,00 | 2,00 | 3,00 | 3,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 448 | 448 | 456 | 464 | 456 | 464 |
| Sound pressure | Normal / Silent mode | dB(A) | 58,50/55,50 | 59,00/56,00 | 61,00/58,00 | 62,00/59,00 | 62,50/59,50 | 63,50/60,50 |
| Sound power | Normal mode | dB | 79,50 | 80,00 | 82,00 | 83,00 | 83,50 | 84,50 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 1600 x 1000/420 | 1842 x 1600 x 1000/420 | 1842 x 2010 x 1000/480 | 1842 x 2420 x 1000/540 | 1842 x 2010 x 1000/535 | 1842 x 2420 x 1000/585 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 11,20/23,3856 | 11,20/23,3856 | 13,90/29,0232 | 16,60/34,6608 | 13,90/29,0232 | 16,60/34,6608 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool / Heat Min ~ Max | °C | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 |

| Model name | | | 30HP<br>U-14ME2E8<br>U-16ME2E8 | 32HP<br>U-16ME2E8<br>U-16ME2E8 | 34HP<br>U-10ME2E8<br>U-12ME2E8<br>U-12ME2E8 | 36HP<br>U-12ME2E8<br>U-12ME2E8<br>U-12ME2E8 | 38HP<br>U-10ME2E8<br>U-12ME2E8<br>U-16ME2E8 | 40HP<br>U-12ME2E8<br>U-12ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 85,00 | 90,00 | 96,00 | 101,00 | 107,00 | 113,00 |
| EER [1] | | W/W | 3,68 | 3,52 | 4,05 | 3,95 | 3,84 | 3,75 |
| Running current cooling | | A | 36,60/35,30 | 40,20/38,70 | 36,80/35,50 | 39,30/37,90 | 43,80/42,20 | 46,70/45,00 |
| Input power cooling | | kW | 23,10 | 25,60 | 23,70 | 25,60 | 27,90 | 30,10 |
| Heating capacity | | kW | 95,00 | 100,00 | 108,00 | 113,00 | 119,00 | 127,00 |
| COP [1] | | W/W | 4,48 | 4,42 | 4,72 | 4,73 | 4,61 | 4,57 |
| Running current heating | | A | 33,60/32,40 | 35,80/34,60 | 35,90/34,60 | 37,10/35,80 | 40,50/39,00 | 43,60/42,00 |
| Input power heating | | kW | 21,20 | 22,60 | 22,90 | 23,90 | 25,80 | 27,80 |
| Starting current | | A | 4,00 | 4,00 | 3,00 | 3,00 | 4,00 | 4,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 464 | 464 | 688 | 696 | 688 | 696 |
| Sound pressure | Normal / Silent mode | dB(A) | 63,50/60,50 | 64,00/61,00 | 63,00/60,00 | 64,00/61,00 | 64,00/61,00 | 64,50/61,50 |
| Sound power | Normal mode | dB | 84,50 | 85,00 | 84,00 | 85,00 | 85,00 | 85,50 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 2420 x 1000/630 | 1842 x 2420 x 1000/630 | 1842 x 3250 x 1000/750 | 1842 x 3660 x 1000/810 | 1842 x 3250 x 1000/795 | 1842 x 3660 x 1000/855 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 16,60/34,6608 | 16,60/34,6608 | 22,20/46,3536 | 24,90/51,9912 | 22,20/46,3536 | 24,90/46,3536 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool / Heat Min ~ Max | °C | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 |

Data is for reference. 1) EER and COP calculation is based in accordance to EN14511. 2) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.



| Model name | | | 42HP<br>U-10ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 44HP<br>U-12ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 46HP<br>U-14ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 48HP<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 50HP<br>U-10ME2E8<br>U-12ME2E8<br>U-12ME2E8<br>U-16ME2E8 | 52HP<br>U-12ME2E8<br>U-12ME2E8<br>U-12ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 118,00 | 124,00 | 130,00 | 135,00 | 140,00 | 145,00 |
| EER [1] | | W/W | 3,69 | 3,62 | 3,62 | 3,52 | 3,87 | 3,82 |
| Running current cooling | | A | 50,20/48,40 | 53,20/51,30 | 56,90/54,90 | 60,20/58,10 | 56,20/54,20 | 59,00/56,80 |
| Input power cooling | | kW | 32,00 | 34,30 | 35,90 | 38,40 | 36,20 | 38,00 |
| Heating capacity | | kW | 132,00 | 138,00 | 145,00 | 150,00 | 155,00 | 160,00 |
| COP [1] | | W/W | 4,49 | 4,50 | 4,46 | 4,42 | 4,65 | 4,66 |
| Running current heating | | A | 46,60/44,90 | 48,20/46,40 | 51,50/49,70 | 53,80/51,80 | 52,20/50,40 | 53,80/51,90 |
| Input power heating | | kW | 29,40 | 30,70 | 32,50 | 33,90 | 33,30 | 34,30 |
| Starting current | | A | 5,00 | 5,00 | 6,00 | 6,00 | 5,00 | 5,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 688 | 696 | 696 | 696 | 920 | 928 |
| Sound pressure | Normal / Silent mode | dB(A) | 65,00/62,00 | 65,50/62,50 | 65,50/62,50 | 66,00/63,00 | 65,50/62,50 | 66,00/63,00 |
| Sound power | Normal mode | dB | 86,00 | 86,50 | 86,50 | 87,00 | 86,50 | 87,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 3250 x 1000/840 | 1842 x 3660 x 1000/900 | 1842 x 3660 x 1000/945 | 1842 x 3660 x 1000/945 | 1842 x 4490 x 1000/1065 | 1842 x 4900 x 1000/1125 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 22,20/51,9912 | 24,90/51,9912 | 24,90/51,9912 | 24,90/51,9912 | 30,50/63,6840 | 33,20/69,3216 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool / Heat Min ~ Max | °C | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 |

| Model name | | | 54HP<br>U-10ME2E8<br>U-12ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 56HP<br>U-12ME2E8<br>U-12ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 58HP<br>U-10ME2E8<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 60HP<br>U-12ME2E8<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 62HP<br>U-14ME2E8<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 64HP<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 151,00 | 156,00 | 162,00 | 168,00 | 174,00 | 180,00 |
| EER [1] | | W/W | 3,75 | 3,71 | 3,65 | 3,60 | 3,60 | 3,52 |
| Running current cooling | | A | 63,20/60,90 | 65,30/63,00 | 69,70/67,10 | 73,30/70,60 | 75,80/73,00 | 80,30/77,40 |
| Input power cooling | | kW | 40,30 | 42,10 | 44,40 | 46,70 | 48,30 | 51,20 |
| Heating capacity | | kW | 169,00 | 175,00 | 182,00 | 189,00 | 195,00 | 201,00 |
| COP [1] | | W/W | 4,56 | 4,56 | 4,47 | 4,47 | 4,45 | 4,42 |
| Running current heating | | A | 58,80/56,70 | 60,20/58,10 | 64,60/62,20 | 67,10/64,70 | 69,50/67,00 | 72,20/69,60 |
| Input power heating | | kW | 37,10 | 38,40 | 40,70 | 42,30 | 43,80 | 45,50 |
| Starting current | | A | 6,00 | 6,00 | 7,00 | 7,00 | 8,00 | 8,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 920 | 928 | 920 | 928 | 928 | 928 |
| Sound pressure | Normal / Silent mode | dB(A) | 66,00/63,00 | 66,50/63,50 | 66,50/63,50 | 67,00/64,00 | 67,00/64,00 | 67,00/64,00 |
| Sound power | Normal mode | dB | 87,00 | 87,50 | 87,50 | 88,00 | 88,00 | 88,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 4490 x 1000/1110 | 1842 x 4900 x 1000/1170 | 1842 x 4490 x 1000/1155 | 1842 x 4900 x 1000/1215 | 1842 x 4900 x 1000/1260 | 1842 x 4900 x 1000/1260 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-5/8 (41,28) / 1-3/4 (44,45) | 1-5/8 (41,28) / 1-3/4 (44,45) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 30,50/63,6840 | 33,20/69,3216 | 30,50/63,6840 | 33,20/69,3216 | 33,20/69,3216 | 33,20/69,3216 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool / Heat Min ~ Max | °C | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 | -10 ~ +52 / -25 ~ +18 |

Data is for reference. 1) EER and COP calculation is based in accordance to EN14511. 2) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 2-Pipe ECOi EX ME2 Series
# Space Saving model combination from 22 to 80HP

| Model name | | | 22HP<br>U-10ME2E8<br>U-12ME2E8 | 24HP<br>U-12ME2E8<br>U-12ME2E8 | 26HP<br>U-10ME2E8<br>U-16ME2E8 | 28HP<br>U-12ME2E8<br>U-16ME2E8 | 30HP<br>U-14ME2E8<br>U-16ME2E8 | 32HP<br>U-16ME2E8<br>U-16ME2E8 | 34HP<br>U-14ME2E8<br>U-20ME2E8 |
|---|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 61,50 | 68,00 | 73,00 | 78,50 | 85,00 | 90,00 | 96,00 |
| EER [1] | | W/W | 4,13 | 3,93 | 3,80 | 3,69 | 3,68 | 3,52 | 3,56 |
| Running current cooling | | A | 23,10/22,30 | 26,60/25,60 | 30,10/29,00 | 33,10/31,90 | 36,60/35,30 | 40,20/38,70 | 41,90/40,40 |
| Input power cooling | | kW | 14,90 | 17,30 | 19,20 | 21,30 | 23,10 | 25,60 | 27,00 |
| Heating capacity | | kW | 69,00 | 76,50 | 81,50 | 87,50 | 95,00 | 100,00 | 108,00 |
| COP [1] | | W/W | 4,76 | 4,69 | 4,55 | 4,56 | 4,48 | 4,42 | 4,17 |
| Running current heating | | A | 22,70/21,90 | 25,30/24,40 | 28,40/27,40 | 30,10/29,00 | 33,60/32,40 | 35,80/34,60 | 40,60/39,20 |
| Input power heating | | kW | 14,50 | 16,30 | 17,90 | 19,20 | 21,20 | 22,60 | 25,90 |
| Starting current | | A | 2,00 | 2,00 | 3,00 | 3,00 | 4,00 | 4,00 | 4,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | $m^3$/min | 456 | 464 | 456 | 464 | 464 | 464 | 637 |
| Sound pressure | Normal / Silent mode | dB(A) | 61,00/58,00 | 62,00/59,00 | 62,50/59,50 | 63,50/60,50 | 63,50/60,50 | 64,00/61,00 | 63,00/60,00 |
| Sound power | Normal mode | dB | 82,00 | 83,00 | 83,50 | 84,50 | 84,50 | 85,00 | 84,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 2010 x 1000/480 | 1842 x 2420 x 1000/540 | 1842 x 2010 x 1000/525 | 1842 x 2420 x 1000/585 | 1842 x 2420 x 1000/630 | 1842 x 2420 x 1000/630 | 1842 x 2780 x 1000/690 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 13,90/23,3856 | 16,60/34,6608 | 13,90/29,0232 | 16,60/34,6608 | 16,60/34,6608 | 16,60/34,6608 | 17,80/37,1664 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 |

| Model name | | | 36HP<br>U-16ME2E8<br>U-20ME2E8 | 38HP<br>U-18ME2E8<br>U-20ME2E8 | 40HP<br>U-20ME2E8<br>U-20ME2E8 | 42HP<br>U-10ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 44HP<br>U-12ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 46HP<br>U-14ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 48HP<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 101,00 | 107,00 | 113,00 | 118,00 | 124,00 | 130,00 | 135,00 |
| EER [1] | | W/W | 3,42 | 3,42 | 3,34 | 3,69 | 3,62 | 3,62 | 3,52 |
| Running current cooling | | A | 45,30/43,70 | 48,10/46,30 | 51,40/49,50 | 50,20/48,40 | 53,20/51,30 | 56,90/54,90 | 60,20/58,10 |
| Input power cooling | | kW | 25,9 | 31,3 | 33,8 | 32,0 | 34,3 | 35,9 | 38,4 |
| Heating capacity | | kW | 113,00 | 119,00 | 127,00 | 132,00 | 138,00 | 145,00 | 150,00 |
| COP [1] | | W/W | 4,14 | 4,13 | 3,92 | 4,49 | 4,50 | 4,46 | 4,42 |
| Running current heating | | A | 42,40/40,80 | 44,70/43,10 | 49,80/48,00 | 46,60/44,90 | 48,20/46,40 | 51,50/49,70 | 53,80/51,80 |
| Input power heating | | kW | 27,30 | 28,80 | 32,40 | 29,40 | 30,70 | 32,50 | 33,90 |
| Starting current | | A | 4,00 | 4,00 | 4,00 | 5,00 | 5,00 | 6,00 | 6,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | $m^3$/min | 637 | 810 | 810 | 688 | 696 | 696 | 696 |
| Sound pressure | Normal / Silent mode | dB(A) | 63,50/60,50 | 62,50/59,50 | 63,00/60,00 | 65,00/62,00 | 65,50/62,50 | 65,50/62,50 | 66,00/63,00 |
| Sound power | Normal mode | dB | 84,50 | 83,50 | 84,00 | 86,00 | 86,50 | 86,50 | 87,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 2780 x 1000/690 | 1842 x 3140 x 1000/750 | 1842 x 3140 x 1000/750 | 1842 x 3250 x 1000/840 | 1842 x 3660 x 1000/900 | 1842 x 3660 x 1000/945 | 1842 x 3660 x 1000/945 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 17,80/37,1664 | 19,00/39,672 | 19,00/39,672 | 22,20/46,3536 | 24,90/51,9912 | 24,90/51,9912 | 24,90/51,9912 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 |

1) EER and COP calculation is based in accordance to EN14511. 2) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.



| Model name | | | 50HP<br>U-14ME2E8<br>U-16ME2E8<br>U-20ME2E8 | 52HP<br>U-16ME2E8<br>U-16ME2E8<br>U-20ME2E8 | 54HP<br>U-14ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 56HP<br>U-16ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 58HP<br>U-18ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 60HP<br>U-20ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 62HP<br>U-14ME2E8<br>U-16ME2E8<br>U-16ME2E8 | 64HP<br>U-16ME2E8<br>U-16ME2E8<br>U-16ME2E8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 140,00 | 145,00 | 151,00 | 156,00 | 162,00 | 168,00 | 174,00 | 180,00 |
| EER [1] | | W/W | 3,55 | 3,46 | 3,49 | 3,41 | 3,40 | 3,35 | 3,60 | 3,52 |
| Running current cooling | | A | 61,10/58,90 | 65,00/62,70 | 66,50/64,10 | 70,30/67,80 | 73,10/70,40 | 76,10/73,40 | 75,80/73,00 | 80,30/77,40 |
| Input power cooling | | kW | 39,40 | 41,90 | 43,30 | 45,80 | 47,60 | 50,10 | 48,30 | 51,20 |
| Heating capacity | | kW | 155,00 | 160,00 | 169,00 | 175,00 | 182,00 | 189,00 | 195,00 | 201,00 |
| COP [1] | | W/W | 4,29 | 4,27 | 4,11 | 4,08 | 4,06 | 3,94 | 4,45 | 4,42 |
| Running current heating | | A | 56,60/54,60 | 58,80/56,70 | 63,80/61,50 | 66,60/64,20 | 69,50/67,00 | 73,70/71,00 | 69,50/67,00 | 72,20/69,60 |
| Input power heating | | kW | 36,10 | 37,50 | 41,10 | 42,90 | 44,80 | 48,00 | 43,80 | 45,50 |
| Starting current | | A | 6,00 | 6,00 | 6,00 | 6,00 | 6,00 | 6,00 | 8,00 | 8,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 869 | 869 | 1042 | 1042 | 1215 | 1215 | 928 | 928 |
| Sound pressure | Normal / Silent mode | dB(A) | 65,50/62,50 | 65,50/62,50 | 65,00/62,00 | 65,50/62,50 | 64,50/61,50 | 65,00/62,00 | 67,00/64,00 | 67,00/64,00 |
| Sound power | Normal mode | dB | 86,50 | 86,50 | 86,00 | 86,50 | 85,50 | 86,00 | 88,00 | 88,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 4020 x 1000/1005 | 1842 x 4020 x 1000/1005 | 1842 x 4380 x 1000/1065 | 1842 x 4380 x 1000/1065 | 1842 x 4740 x 1000/1125 | 1842 x 4740 x 1000/1125 | 1842 x 4900 x 1000/1260 | 1842 x 4900 x 1000/1260 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Gas pipe | Inch (mm) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-5/8 (41,28) / 1-3/4 (44,45) | 1-5/8 (41,28) / 1-3/4 (44,45) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 26,10/54,4968 | 26,10/54,4968 | 27,30/57,0024 | 27,30/57,0024 | 28,50/59,508 | 28,50/59,508 | 33,20/69,3216 | 33,20/69,3216 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 |

| Model name | | | 66HP<br>U-10ME2E8<br>U-16ME2E8<br>U-20ME2E8 | 68HP<br>U-12ME2E8<br>U-16ME2E8<br>U-20ME2E8 | 70HP<br>U-10ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 72HP<br>U-16ME2E8<br>U-16ME2E8<br>U-20ME2E8 | 74HP<br>U-16ME2E8<br>U-18ME2E8<br>U-20ME2E8 | 76HP<br>U-16ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 78HP<br>U-18ME2E8<br>U-20ME2E8<br>U-20ME2E8 | 80HP<br>U-20ME2E8<br>U-20ME2E8<br>U-20ME2E8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 185,00 | 190,00 | 196,00 | 202,00 | 208,00 | 213,00 | 219,00 | 224,00 |
| EER [1] | | W/W | 3,52 | 3,49 | 3,47 | 3,42 | 3,42 | 3,39 | 3,38 | 3,35 |
| Running current cooling | | A | 80,80/77,80 | 83,70/80,70 | 86,80/83,60 | 90,60/87,30 | 93,40/90,00 | 96,60/93,10 | 98,30/94,70 | 101,50/97,80 |
| Input power cooling | | kW | 52,60 | 54,50 | 56,50 | 59,00 | 60,80 | 62,90 | 64,70 | 66,80 |
| Heating capacity | | kW | 207,00 | 213,00 | 219,00 | 226,00 | 233,00 | 239,00 | 245,00 | 252,00 |
| COP [1] | | W/W | 4,16 | 4,18 | 4,05 | 4,14 | 4,12 | 4,03 | 4,03 | 3,94 |
| Running current heating | | A | 77,10/74,30 | 79,20/76,30 | 83,10/80,10 | 84,70/81,70 | 87,70/84,50 | 92,00/88,70 | 93,40/90,00 | 98,30/94,70 |
| Input power heating | | kW | 49,70 | 51,00 | 54,10 | 54,60 | 56,50 | 59,30 | 60,80 | 64,00 |
| Starting current | | A | 7,00 | 7,00 | 7,00 | 8,00 | 8,00 | 8,00 | 8,00 | 8,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 1266 | 1274 | 1439 | 1274 | 1447 | 1447 | 1620 | 1620 |
| Sound pressure | Normal / Silent mode | dB(A) | 66,00/63,00 | 66,50/63,50 | 65,50/62,50 | 66,50/63,50 | 66,50/63,50 | 66,50/63,50 | 66,00/63,00 | 66,00/63,00 |
| Sound power | Normal mode | dB | 87,00 | 87,50 | 86,50 | 87,50 | 87,50 | 87,50 | 87,00 | 87,00 |
| Dimension / Net weight | H x W x D | mm / kg | 1842 x 5210 x 1000/1275 | 1842 x 5620 x 1000/1335 | 1842 x 5570 x 1000/1335 | 1842 x 5620 x 1000/1380 | 1842 x 5980 x 1000/1440 | 1842 x 5980 x 1000/1440 | 1842 x 6340 x 1000/1500 | 1842 x 6340 x 1000/1500 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) | 7/8 (22,22) / 1 (25,04) |
| | Gas pipe | Inch (mm) | 1-5/8 (41,28) / 1-3/4 (44,45) | 1-5/8 (41,28) / 1-3/4 (44,45) | 1-5/8 (41,28) / 1-3/4 (44,45) | 1-3/4 (44,45) / 2 (50,80) | 1-3/4 (44,45) / 2 (50,80) | 1-3/4 (44,45) / 2 (50,80) | 1-3/4 (44,45) / 2 (50,80) | 1-3/4 (44,45) / 2 (50,80) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 32,90/68,6952 | 35,60/74,3328 | 34,10/19,836 | 35,80/68,6952 | 36,80/76,8384 | 36,80/76,8384 | 38,00/79,344 | 38,00/79,344 |
| Maximum allowable indoor / outdoor capacity ratio % [3] | | | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) | 50 ~ 130 (200) |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 | -25 ~ +18 |

1) EER and COP calculation is based in accordance to EN14511. 2) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10°C WB (standard -25°C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 3-PIPE ECOi EX MF3 SERIES

## Simultaneous heating and cooling VRF System

The Panasonic 3-Pipe ECOi EX MF3 series offers the ideal solution to meet customer's demand.

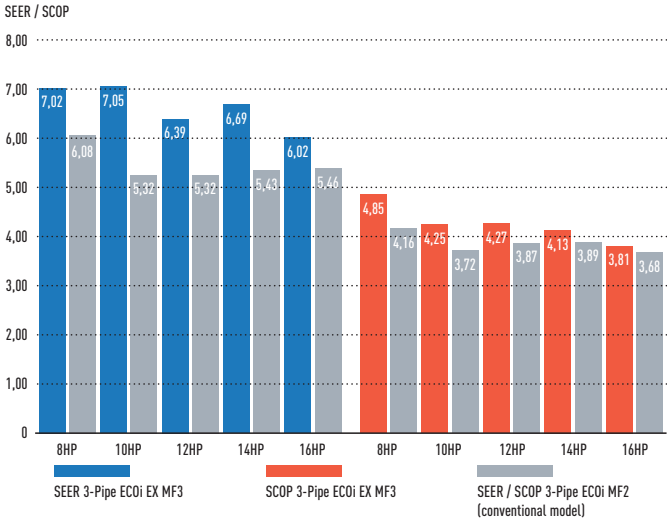
**Upgraded energy efficiency utilized ECOi EX technology.**

- SEER / SCOP improved in full capacities from 8 to 16HP
- SEER / SCOP follows LOT21 from started from January 2018
- EER / COP is certified in Eurovent

**Design flexibility.**

- High reliability even under tough temperature condition
- Maximum 52 indoor units connectable
- Slim heat recovery box with just 200 height
- Farthest piping length between indoor units and outdoor units: 200m

**Excellent seasonal energy saving.**

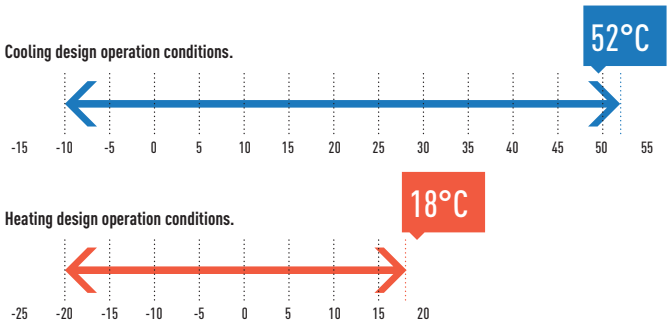



## Extended design operation conditions

Cooling design operation conditions: The cooling operation range has been extended to -10°C ~ 52°C by changing the outdoor fan to an Inverter type. Heating design operation conditions: Stable heating operation even with an outside air temperature of -20°C. The heating operation range has been extended to -20°C by use of a compressor with a high-pressure vessel.

**Wide temperature setting range**

Wired remote control heating temperature setting range is 16 to 30°C.




Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C ( WB).

## Increased maximum number of connectable indoor units

Maximum 48HP with 52 indoor units can be set up according to user needs.
Connectable indoor/outdoor unit capacity ratio up to 150%.

| System ( HP) | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Connectable indoor units*: 150 % | 19 | 24 | 29 | 34 | 39 | 43 | 48 | 52 | | | | 52 | | | | | | | | | |

*Depending on indoor units types. Please check service manuals.

## Power suppression control for energy saving (Demand control) [1]

The 3-Pipe ECOi EX MF3 Series has a built-in demand function which uses the inverter characteristics. With this demand function, the power consumption can be set in three steps, and operation [2] at optimum performance is performed according to the setting and the power consumption. This function is useful to reduce the annual power consumption and to save electricity costs while maintaining comfort.

1) An outdoor Seri-Para I/O unit is required for demand input.
2) Setting is possible as 0% or in the range from 40 to 100% (in steps of 5%). At the time of shipping, setting has been done to the three steps of 0%, 70%, and 100%.

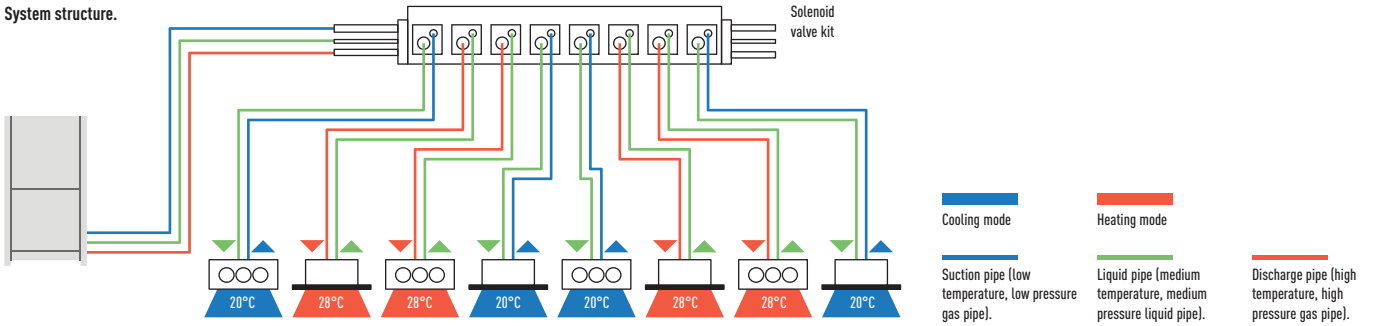
## Simultaneous heating and cooling VRF system. The 3-Pipe ECOi EX MF3 Series offers the solution for the most demanding customers.

### Slim 3-Pipe Control Box Kit / Multiple connection type

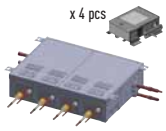
**Heat Recovery Box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups.**
The height is only 200mm. This is good advantage specially in hotel applications, where space for connecting several boxes is limited.

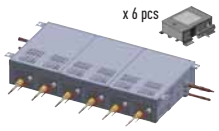
**Individual control of multiple indoor units with solenoid valve kits.**
- Any design and layout can be used in a single system.
- Cooling operation is possible up to an outdoor temperature of -10°C.

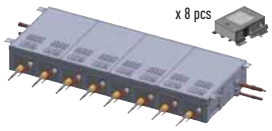
System structure.







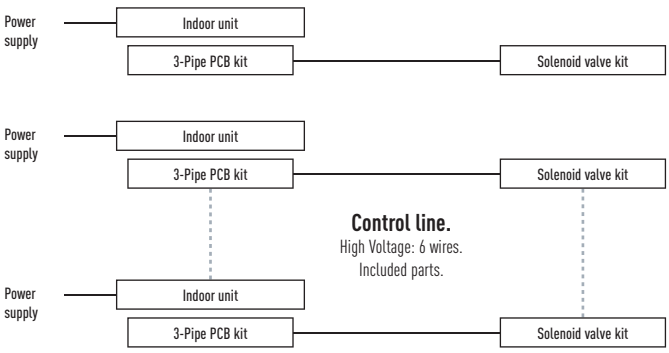





| | 1 port | 4 port | 6 port | 8 port |
|---|---|---|---|---|
| 56 type | CZ-P56HR3 | CZ-P456HR3 | CZ-P656HR3 | CZ-P856HR3 |
| 160 type | CZ-P160HR3 | CZ-P4160HR3 | – | – |

### Solenoid valve kit / wiring work

#### Current model / single connection type



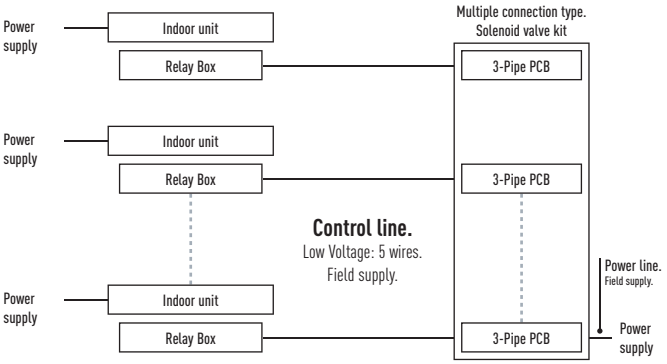

**3-Pipe PCB kit.**
Separately purchased.



**Parts included in HR3 kit.**



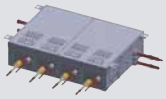
#### New model / multiple connection type




**Signal Relay Box.**
Included accessory.



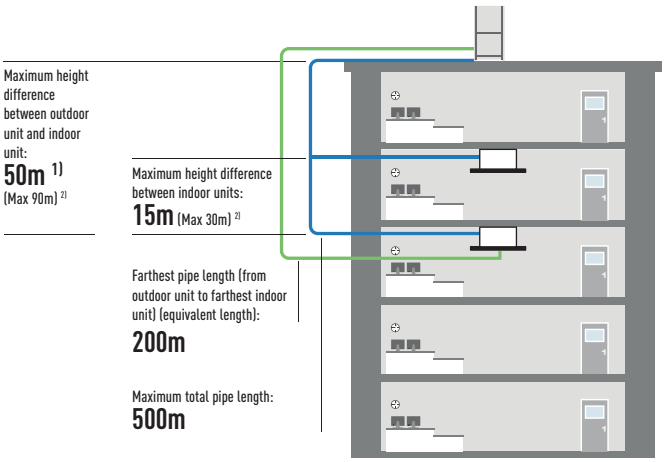
**Parts included in HR3 kit.**



# 3-PIPE ECOi EX MF3 SERIES
# SUPERIOR FLEXIBILITY

## Increased piping lengths and design flexibility

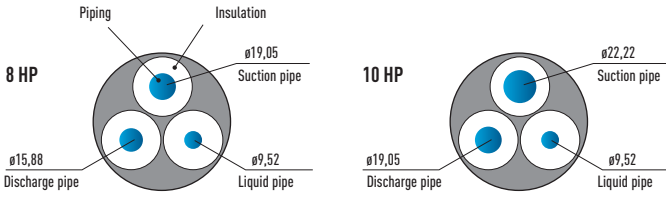
Adaptable to various building types and sizes. Actual piping length: 200m. Maximum piping length: 500m.




1) 40m if the outdoor unit is below the indoor unit.
2) Setting change is necessary. Please contact an authorized Panasonic dealer in the case of conditions below:
50 < Height difference between OU and IU ≤ 90 or 15 < Height difference between IUs ≤ 30.

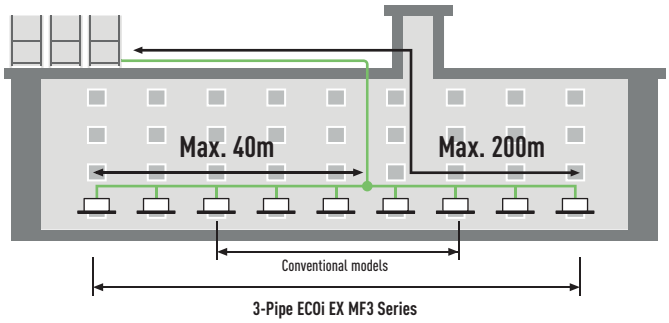
## Excellent cost saving and smaller piping size

By using R410A with low pressure loss, pipe sizes for discharge, suction and liquid are all reduced.
This makes it possible to aim for reduced piping space, improved workability at the site, and reduction of the piping material costs.



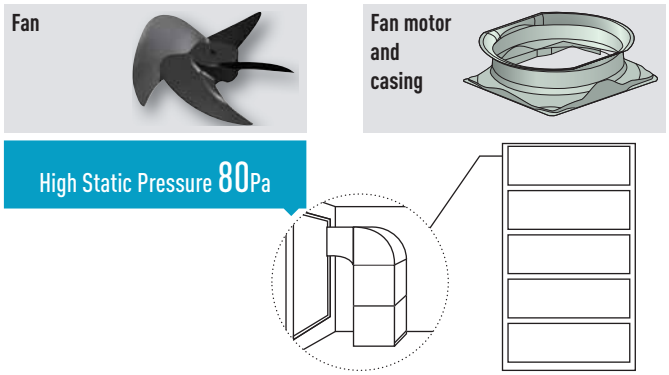

## Up to 40m piping after first branch

Up to 52 units can be connected to one system. Flexible piping layout makes it easier to design systems for locations such as train stations, airports, schools and hospitals.




## High external static pressure on condensers

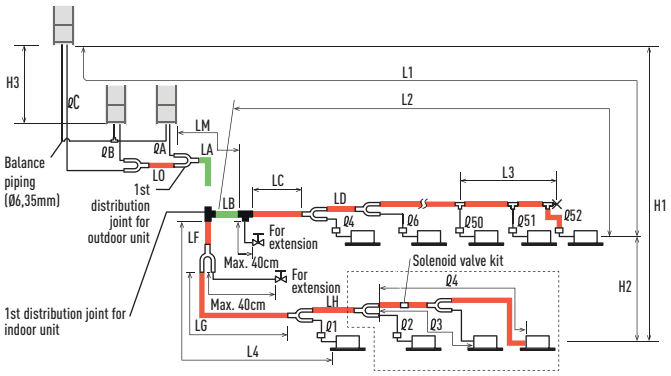
With a newly designed fan, fan guard, motor, and casing, new models can be custom-installed on-site to provide up to 80 Pa of external static pressure.
An air discharge duct prevents shortages of air circulation, allowing outdoor units to be installed on every floor of a building.






# 3-PIPE ECOi EX MF3 SERIES PIPING DESIGN

Select the installation location so that the length and size of refrigerant tubing are within the allowable range shown in the figure below.




Main piping length (maximum piping size) LM= LA + LB ...

Main distribution tubes LC – LH are selected according to the capacity after the distribution joint.

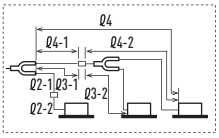
Sizes of indoor unit connection piping Ø1 – Ø52 are determined by the connection piping sizes on the indoor units.

Distribution joint (CZ: optional parts).

T-joint (field supply).

Ball valve (field supply).

Solidly welded shut (pinch weld).




The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends.
Note: Be sure to use special R410A distribution joints (CZ: optional parts) for outdoor unit connections and piping branches.

**R410A distribution joint.**
CZ-P680PJ2BM (for outdoor unit)
CZ-P1350PJ2BM (for outdoor unit)
CZ-P224BH2BM (for indoor unit)
CZ-P680BH2BM (for indoor unit)
CZ-P1350BH2BM (for indoor unit)

**Ranges that apply to refrigerant piping lengths and to differences in installation heights**

| Items | Mark | Contents | | Length (m) |
|---|---|---|---|---|
| Allowable piping length | L1 | Maximum piping length | Actual length | ≤200[1] |
| | | | Equivalent length | ≤210[1] |
| | Δ L (L2-L4) | Difference between maximum length and minimum length from the 1st distribution joint | | ≤50[2] |
| | LM | Maximum length of main piping (at maximum size) * Even after 1st distribution joint, LM is allowed if at maximum piping length. | | —[3] |
| | Ø1, Ø2~ Ø52 | Maximum length of each distribution tube | | ≤50[4] |
| | L1+ Ø1+ Ø2~ Ø51+ ØA+ØB+LF+LG+LH | Total maximum piping length including length of each distribution tube (only liquid piping) | | ≤500 |
| | ØA, ØB+LO, ØC+LO | Maximum piping length from outdoor's 1st distribution joint to each outdoor unit | | ≤10 |
| | Ø1-2, Ø2-2 ~ Ø52-2 | Maximum length between solenoid valve kit and indoor unit | | ≤30 |
| Allowable elevation difference | H1 | When outdoor unit is installed higher than indoor unit | | ≤50 |
| | | When outdoor unit is installed lower than indoor unit | | ≤40 |
| | H2 | Maximum difference between indoor units | | ≤15[5] |
| | H3 | Maximum difference between outdoor units | | ≤4 |
| Allowable length of joint piping | L3 | T-joint piping (field-supply); Maximum piping length between the first T-joint and solidly welded-shut end point | | ≤2 |

L = Length, H = Height

1) If the longest piping length (L1) exceeds 90m (equivalent length), increase the sizes of the main pipes (LM) by 1 rank for suction pipes, discharge pipes and liquid pipes. Use a field supply reducer. Select the pipe size from the table of main piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 8). 2) If the longest main piping length (LM) exceeds 50m, increase the main piping size at the portion before 50 m by 1 rank for the suction pipes and discharge pipes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50m, set based on the main piping size (LA) listed in Table 3. 3) If the piping length marksd "L" (L2-L4) exceeds 40m, increase the piping size at the portion after the 1st distribution joint by 1 rank for the liquid pipe, suction pipe and discharge pipe. Refer to the Technical Data for the details. 4) If any of the piping length exceeds 30m, increase the size of the suction pipes,discharge pipes and liquid pipes by 1rank.
* The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the pipe ends.

## System limitations.

| | |
|---|---|
| Maximum number allowable connected outdoor units | 3 |
| Maximum capacity allowable connected outdoor units | 135kW (48HP) |
| Maximum connectable indoor units | 52 |
| Maximum allowable indoor / outdoor capacity ratio | 50-150% |

1) In the case of 24 HP (type 68kW) or smaller units, the number is limited by the total capacity of the connected indoor units.
2) Up to 3 units can be connected if the system has been extended.
3) It is strongly recommended that you choose the unit so the load can become between 50 and 130%.

## Additional refrigerant charge.

| Liquid piping size Inch (mm) | Amount of refrigerant charge/m (g/m) |
|---|---|
| 1/4 (6,35) | 26 |
| 3/8 (9,52) | 56 |
| 1/2 (12,70) | 128 |
| 5/8 (15,88) | 185 |
| 3/4 (19,05) | 259 |
| 7/8 (22,22) | 366 |

## Necessary amount of additional refrigerant charge per meter, according to discharge piping size.

| Discharge piping size | Inch (mm) | 1/2 (12,70) | 5/8 (15,88) | 3/4 (19,05) | 7/8 (22,22) | 1 (25,40) | 1-1/8 (28,58) | 1-1/4 (31,75) | 1-1/2 (38,10) |
|---|---|---|---|---|---|---|---|---|---|
| Additional amount | g/m | 12 | 21 | 31 | 41 | 55 | 71 | 89 | 126 |

## Refrigerant piping.

| Piping size Inch (mm) | | | |
|---|---|---|---|
| **Material Temper - O** | | **Material Temper - 1/2 H, H** | |
| 1/4 (6,35) | t 0,8 | 7/8 (22,22) | t 1,0 |
| 3/8 (9,52) | t 0,8 | 1 (25,40) | t 1,0 |
| 1/2 (12,70) | t 0,8 | 1-1/8 (28,58) | t 1,0 |
| 5/8 (15,88) | t 1,0 | 1-1/4 (31,75) | t 1,1 |
| 3/4 (19,05) | t 1,2 | 1-1/2 (38,10) | t 1,15 |
| | | 1-1/5 41,28 | t 1,20 |

* When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.

# 3-Pipe ECOi EX MF3 Series



**4,85 SCOP**

## Simultaneous heating and cooling operation with heat recovery type

The 3-Pipe ECOi EX MF3 Series is one of the most advanced VRF systems.
Not only high-efficient performance for simultaneous heating and cooling, but also sophisticated installation and maintenance available.

- Achieving SCOP 4,77 as the top class in the industry (LOT21 Seasonal heating efficiency value for 8HP outdoor unit)
- Simultaneous cooling and heating operation with up to 39 indoor units
- Slim heat recovery boxes with just 200mm height fit with the ceiling space limited in hotel applications
- Rotation operation function and back-up operation function provided

## Technical focus

- High SEER/SCOP at full Load capacity (Follows LOT21)
- EER, COP: Eurovent certified
- Standardisation of outdoor unit to one compact casing size
- The constant-speed compressor adopts a high-performance internal high-pressure scroll
- Up to 52 indoor units connectable
- High external static pressure 80 Pa with a newly designed fan, fan guard, motor, and casing
- Silent outdoor unit operation: Minimum 54dB(A) for 8HP
- Bluefin condenser outdoor unit

| | | | 8HP | 10HP | 12HP | 14HP | 16HP |
|---|---|---|---|---|---|---|---|
| **Outdoor Units** | | | **U-8MF3E8** | **U-10MF3E8** | **U-12MF3E8** | **U-14MF3E8** | **U-16MF3E8** |
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 22,40 | 28,00 | 33,50 | 40,00 | 45,00 |
| EER [1] | | W/W | 5,11 | 4,72 | 3,91 | 3,70 | 3,49 |
| **SEER [2]** | | | **7,02** | **7,05** | **6,39** | **6,69** | **6,02** |
| Running current cooling | | A | 7,16/6,80/6,55 | 9,90/9,41/9,07 | 3,19/13,20/12,70 | 18,20/17,30/16,70 | 21,30/20,20/19,50 |
| Input power cooling | | kW | 4,38 | 5,93 | 8,57 | 10,80 | 12,90 |
| Heating capacity | | kW | 25,00 | 31,50 | 37,50 | 45,00 | 50,00 |
| COP [1] | | W/W | 5,25 | 5,17 | 4,51 | 4,21 | 4,17 |
| **SCOP [2]** | | | **4,85** | **4,25** | **4,27** | **4,13** | **3,81** |
| Running current heating | | A | 7,78/7,39/7,12 | 10,20/9,66/9,31 | 13,40/12,80/12,30 | 18,10/17,20/16,50 | 20,00/19,00/18,30 |
| Input power heating | | kW | 4,76 | 6,09 | 8,32 | 10,70 | 12,00 |
| Starting current | | A | 1,00 | 1,00 | 1,00 | 2,00 | 2,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 |
| Air volume | | $m^3$/min | 210 | 220 | 232 | 232 | 232 |
| Sound pressure | Normal mode | dB(A) | 54,00 | 57,00 | 60,00 | 61,00 | 62,00 |
| | Silent mode 1 / 2 | dB(A) | 51,00/49,00 | 54,00/52,00 | 57,00/55,00 | 58,00/56,00 | 59,00/57,00 |
| Sound power | Normal mode | dB | 76,00 | 78,00 | 81,00 | 82,00 | 82,00 |
| Dimension | H x W x D | mm | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 | 1842 x 1180 x 1000 |
| Net weight | | kg | 261 | 262 | 286 | 334 | 334 |
| Piping connections [3] | Liquid pipe | Inch (mm) | 3/8 (9,52) / 1/2 (12,70) | 3/8 (9,52) / 1/2 (12,70) | 1/2 (12,70) / 5/8 (15,88) | 1/2 (12,70) / 5/8 (15,88) | 1/2 (12,70) / 5/8 (15,88) |
| | Discharge pipe | Inch (mm) | 5/8 (15,88) / 3/4 (19,05) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 7/8 (22,22) / 1 (25,40) | 7/8 (22,22) / 1 (25,40) |
| | Suction pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 7/8 (22,22) / 1 (25,40) | 1 (25,40) / 1-1/8 (28,58) | 1 (25,40) / 1-1/8 (28,58) | 1-1/8 (28,58) / 1-1/4 (31,75) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 6,80/14,1984 | 6,80/14,1984 | 8,30/17,3304 | 8,30/17,3304 | 8,30/17,3304 |
| Maximum allowable indoor / outdoor capacity ratio % | | | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 |
| | Simultaneous op. | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

| **Solenoid valve kit** | | |
|---|---|---|
| **KIT-P56HR3** | **KIT-P56HR3** | 3-Pipe control Solenoid valve kit (up to 5,60kW) |
| | **CZ-P56HR3** | Solenoid valve kit (up to 5,60kW) |
| | **CZ-CAPE2** | 3-Pipe control PCB |
| **KIT-P160HR3** | **KIT-P160HR3** | 3-Pipe control Solenoid valve kit (from 5,60 to 16,00kW) |
| | **CZ-P160HR3** | Solenoid valve kit (up to 16,00kW) |
| | **CZ-CAPE2** | 3-Pipe control PCB |
| **CZ-CAPEK2** | | 3-Pipe control PCB for wall mounted |

| **3-Pipe control box kit** | |
|---|---|
| **CZ-P456HR3** | 4 ports 3 pipe box (up to 5,60kW) |
| **CZ-P656HR3** | 6 ports 3 pipe box (up to 5,60kW) |
| **CZ-P856HR3** | 8 ports 3 pipe box (up to 5,60kW) |
| **CZ-P4160HR3** | 4 ports 3 pipe box (up to 16,00kW) |

1) EER and COP calculation is based in accordance to EN14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "$\eta$" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = ($\eta$ + Correction) × PEF. 3) Pipe diameter under 90m for ultimate indoor unit / over 90m for ultimate indoor unit (if the longest piping equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes).



# 3-Pipe ECOi EX MF3 Series combination from 18 to 48HP



| HP | | | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP |
|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | U-8MF3E8 U-10MF3E8 | U-8MF3E8 U-12MF3E8 | U-10MF3E8 U-12MF3E8 | U-12MF3E8 U-12MF3E8 | U-10MF3E8 U-16MF3E8 | U-12MF3E8 U-16MF3E8 | U-14MF3E8 U-16MF3E8 | U-16MF3E8 U-16MF3E8 |
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 50,00 | 56,00 | 61,50 | 68,00 | 73,00 | 78,50 | 85,00 | 90,00 |
| EER [1] | | W/W | 4,90 | 4,31 | 4,24 | 3,89 | 3,88 | 3,65 | 3,59 | 3,49 |
| Running current cooling | | A | 16,80/16,00/15,40 | 21,00/20,00/19,20 | 23,70/22,50/21,70 | 28,30/26,90/25,90 | 31,00/29,50/28,40 | 35,10/33,40/32,20 | 39,60/37,60/36,20 | 42,60/40,50/39,00 |
| Input power cooling | | kW | 10,20 | 13,00 | 14,50 | 17,50 | 18,80 | 21,50 | 23,70 | 25,8 |
| Heating capacity | | kW | 56,00 | 63,00 | 69,00 | 76,50 | 81,50 | 87,50 | 95,00 | 100,00 |
| COP [1] | | W/W | 5,23 | 4,77 | 4,79 | 4,47 | 4,50 | 4,31 | 4,19 | 4,17 |
| Running current heating | | A | 17,70/16,80/16,20 | 21,30/20,30/19,50 | 23,50/22,30/21,50 | 27,60/26,30/25,30 | 30,20/28,70/27,70 | 33,50/31,80/30,70 | 37,90/36,00/34,70 | 40,10/38,10/36,70 |
| Input power heating | | kW | 10,70 | 13,20 | 14,40 | 17,10 | 18,10 | 20,30 | 22,70 | 24,00 |
| Starting current | | A | 2,00 | 2,00 | 2,00 | 2,00 | 3,00 | 3,00 | 4,00 | 4,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 430 | 442 | 452 | 464 | 452 | 464 | 464 | 464 |
| Sound pressure | Normal mode | dB(A) | 59,00 | 61,00 | 62,00 | 63,00 | 63,50 | 64,50 | 64,50 | 65,00 |
| | Silent mode 1 / 2 | dB(A) | 56,00/54,00 | 58,00/56,00 | 59,00/57,00 | 60,00/58,00 | 60,50/58,50 | 61,50/59,50 | 61,50/59,50 | 62,00/60,00 |
| Sound power | Normal mode | dB | 81,50 | 84,00 | 84,50 | 86,00 | 84,50 | 86,00 | 86,00 | 86,00 |
| Dimension | H x W x D | mm | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 | 1842 x 2360 (+60) x 1000 |
| Net weight | | kg | 523 | 547 | 548 | 574 | 596 | 620 | 668 | 668 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 5/8 (15,88) / 3/4 (19,05) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Discharge pipe | Inch (mm) | 7/8 (22,22) / 1 (25,40) | 7/8 (22,22) / 1 (25,40) | 1 (25,40) / 1-1/8 (28,58) | 1 (25,40) / 1-1/8 (28,58) | 1 (25,40) / 1-1/8 (28,58) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) |
| | Suction pipe | Inch (mm) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 13,60/28,3968 | 15,10/31,5288 | 15,10/31,5288 | 16,60/34,6608 | 15,10/31,5288 | 16,60/34,6608 | 16,60/34,6608 | 16,60/34,6608 |
| Maximum allowable indoor / outdoor capacity ratio % | | | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 |
| | Simultaneous op. | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

| HP | | | 34HP | 36HP | 38HP | 40HP | 42HP | 44HP | 46HP | 48HP |
|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | U-8MF3E8 U-10MF3E8 U-16MF3E8 | U-8MF3E8 U-12MF3E8 U-16MF3E8 | U-10MF3E8 U-12MF3E8 U-16MF3E8 | U-8MF3E8 U-16MF3E8 U-16MF3E8 | U-10MF3E8 U-16MF3E8 U-16MF3E8 | U-12MF3E8 U-16MF3E8 U-16MF3E8 | U-14MF3E8 U-16MF3E8 U-16MF3E8 | U-16MF3E8 U-16MF3E8 U-16MF3E8 |
| Power supply | Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| | Phase | | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase | Three Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 96,00 | 101,00 | 107,00 | 113,00 | 118,00 | 124,00 | 130,00 | 135,00 |
| EER [1] | | W/W | 4,10 | 3,90 | 3,88 | 3,72 | 3,72 | 3,58 | 3,55 | 3,49 |
| Running current cooling | | A | 38,60/36,70/35,40 | 42,30/40,20/38,70 | 45,60/43,30/41,70 | 50,20/47,70/46,00 | 52,40/49,70/47,90 | 56,50/53,70/51,80 | 61,10/58,10/56,00 | 63,90/60,70/58,50 |
| Input power cooling | | kW | 23,40 | 25,90 | 27,60 | 30,40 | 31,70 | 34,60 | 36,60 | 38,70 |
| Heating capacity | | kW | 108,00 | 113,00 | 119,00 | 127,00 | 132,00 | 138,00 | 145,00 | 150,00 |
| COP [1] | | W/W | 4,64 | 4,48 | 4,51 | 4,31 | 4,36 | 4,25 | 4,18 | 4,17 |
| Running current heating | | A | 38,90/37,00/35,60 | 41,60/39,50/38,10 | 43,60/41,40/39,90 | 49,30/46,80/45,10 | 50,60/48,10/46,30 | 53,70/51,00/49,10 | 57,90/55,00/53,00 | 60,10/57,10/55,00 |
| Input power heating | | kW | 23,30 | 25,20 | 26,40 | 29,50 | 30,30 | 32,50 | 34,70 | 36,00 |
| Starting current | | A | 4,00 | 4,00 | 4,00 | 5,00 | 5,00 | 5,00 | 6,00 | 6,00 |
| External static pressure (Max) | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Air volume | | m³/min | 662 | 674 | 684 | 674 | 684 | 696 | 696 | 696 |
| Sound pressure | Normal mode | dB(A) | 64,00 | 64,50 | 65,00 | 65,50 | 66,00 | 66,50 | 66,50 | 67,00 |
| | Silent mode 1 / 2 | dB(A) | 61,00/59,00 | 61,50/59,50 | 62,00/60,00 | 62,50/60,50 | 63,00/61,00 | 63,50/61,50 | 63,50/61,50 | 64,00/62,00 |
| Sound power | Normal mode | dB | 84,50 | 85,50 | 85,50 | 85,50 | 86,00 | 86,50 | 87,00 | 87,00 |
| Dimension | H x W x D | mm | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 | 1842 x 3540 (+120) x 1000 |
| Net weight | | kg | 857 | 881 | 882 | 929 | 930 | 954 | 1002 | 1002 |
| Piping connections [3] | Liquid pipe | Inch (mm) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) | 3/4 (19,05) / 7/8 (22,22) |
| | Discharge pipe | Inch (mm) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/8 (28,58) / 1-1/4 (31,75) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/4 (31,75) / 1-1/2 (38,10) |
| | Suction pipe | Inch (mm) | 1-1/4 (31,75) / 1-1/2 (38,10) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) | 1-1/2 (38,10) / 1-5/8 (41,28) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 21,90/45,72719 | 23,40/48,85919 | 23,40/48,85919 | 23,40/48,85919 | 23,40/48,85919 | 24,90/46,3536 | 24,90/51,9912 | 24,90/51,9912 |
| Maximum allowable indoor / outdoor capacity ratio % | | | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 | 50 ~ 150 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 | -10 ~ +52 |
| | Heat Min ~ Max | °C | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 | -20 ~ +18 |
| | Simultaneous op. | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# ECO G, THE GAS DRIVEN VRF



The advanced Gas Driven VRF system offers increased efficiency and performance across the range. Improvements include increased part load performance, reduced gas consumption with a Miller-cycle engine and reduced electrical consumption by using DC-Fan motors.

## 1 Limited electric supply

Electric consumption of ECO G is only 9% compared to ECOi because gas engine is utilized for the compressor driving source.

## 2 High demand of DHW with heating and cooling cogeneration

DHW is produced effectively thanks to heat from engine exhaust during heating and cooling.

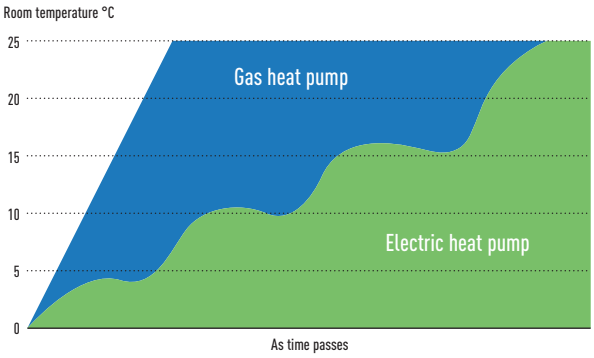
## 3 Open and flexible design

ECO G system is designed to connect various Indoor units and controllers which is available for ECOi system. With new GE3 series, Pump sown system has been also implemented to answer commercial needs.

## 4 Quick start up in heating at low ambient temperature

Gas heat pump systems make your building comfortably warm by a quick start up with waste heat from engine.
Heating mode works from -21°C of ambient temperature.

**Comparison of heating capacity.**








## 2-Pipe ECO G GE3 Series

Designed for better energy efficiency. SEER has been increased by maximum 120%.

## NEW 3-Pipe ECO G GF3 Series

Domestic hot water can be supplied by effectively using waste heat generated by heating & cooling.

## GE3/GF3 connectable indoor units

| Type | Model number reference | 2-Pipe ECO G GE3 Series | NEW 3-Pipe ECO G GF3 Series |
|---|---|---|---|
| Standard A2A indoor units | – | Yes [1] | Yes [1] |
| Water Heat Exchanger | PAW-250/500W(P)5G | Yes [2] | No |
| High Static Pressure Hide Away | S-ME2E5 | Yes | No |
| Heat Recovery with DX Coil | PAW-ZDX3N | Yes | Yes |
| Air Curtain with DX Coil | PAW-EAIRC-HS/LS | Yes | Yes [3] |
| AHU Connection Kit | PAW-MAH2/M/L | Yes | Yes [3] |

1) Except for 1,50kW capacity. 2) Allowed 1:1 and also mixed. If mixed, not operate at the same time WHE + DX only operate separately. 3) Smaller capacity than 16kW only.

# ECO G, THE GAS DRIVEN VRF

**200.000**
GHP outdoor units were sold in all over the world

## ECO G satisfies special requirement for your application and environmentally friendly solution by Panasonic professional technology.

## Reliable quality by long development history since 1985.

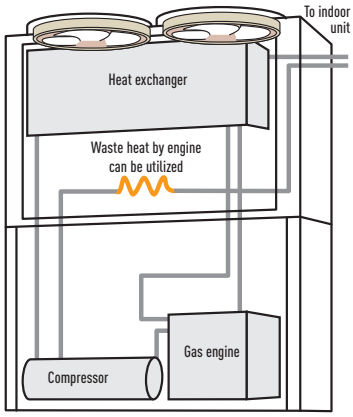
Our ECO G VRF range of commercial systems is leading the industry in the development of efficient and flexible systems

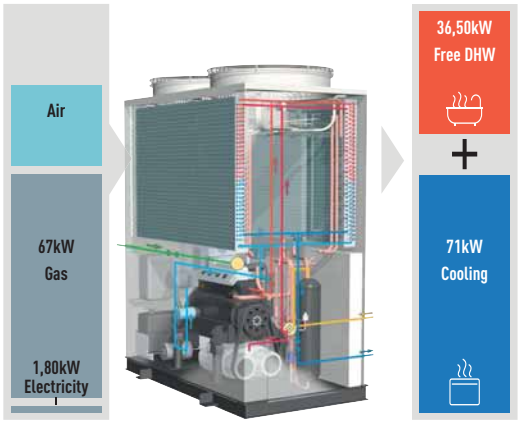


**1985**
Introduces first GHP (Gas Heat Pump) VRF air conditioner.

### What is GHP? The Gas Heat Pump (GHP)

Panasonic Gas Heat Pump is a direct expansion system with compressor as same as VRF system. Gas engine is used as driving source of compressor instead of electric motor. This gas engine compressor drive has 2 advantages:
1. Waste heat from the gas engine available
2. No need for motor power consumption thanks to gas engine
GHP is the natural choice for commercial projects, especially for those projects where power restrictions apply.



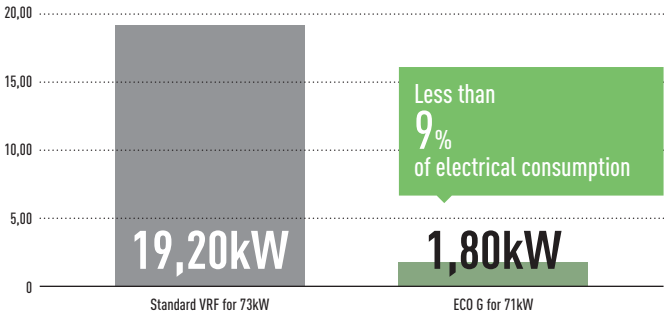




* Regarding a 25HP model.

### Power supply problems?

If you are short of electric power, our ECO G is a perfect solution.
- Runs on natural gas or LPG and just needs single phase supply
- Enables the building's electrical power supply to be used for other critical electrical demands
- Reduces capital cost to upgrade power substations to run heating and cooling systems
- Reduces power loadings within a building especially during peak periods
- Electricity supply freed up for other uses such as IT servers, commercial refrigeration, manufacturing, lighting, etc...

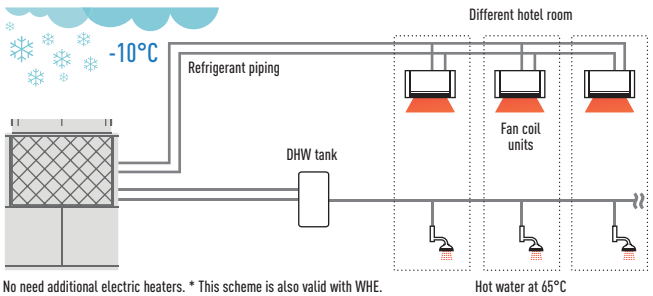
**Limited electricity area.**
Comparison of electrical consumption on a 71kW outdoor unit.




### High demand of Domestic Hot Water in heating and cooling

The rejected heat from the engine is available for DHW production and can supply up to 46kW of hot water at 65°C. DHW at 65°C is also ready to use in heating without additional electric heaters.

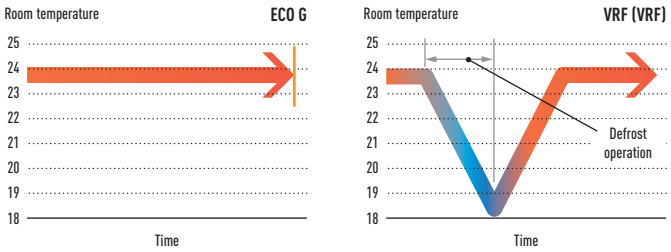
**Application example: Hotel**




No need additional electric heaters. * This scheme is also valid with WHE.
Hot water at 65°C

## Quick start up and great heating capacity at low ambient temperature

Waste heat from gas engine is utilized to raise temperature quicker then electric VRF system.
This contributes great heating capacity at extremely low ambient temperature.




**Lowest nitrogen oxide emissions.**
The ECO G VRF systems have low nitrogen oxide emissions. In a pioneering development, the Panasonic ECO G features a brand new lean-burn combustion system that utilizes air fuel ratio feedback control to reduce NOx emissions to an all time low.

**Water chiller option.**
Our ECO G system is also available with a water chiller option, which can be combined with individual outdoor units or as part of a DX chilled water mix of indoor units. The system can be operated via a BMS system or a Panasonic supplied control panel, with chilled water set points from -15°C ~ +15°C and heating set points 35°C ~ +55°C.

## Application

| Application | Condition | ECO G | |
|---|---|---|---|
| Hotel | High DHW demand | ✔ | Energy recovery of ECO G system can fulfill different requirement |
| Hotel | Needs to warm up swimming pool | | |
| Office | Quick start up is necessary | ✔ | Speed of start up is quicker than VRF system |
| Winery | 1) Outlet water demand at specific temperature<br>2) Needs high amount of power temporary (not every month) | ✔ | 1) Chiller application with hydro module (ECO G + WHE) can make this special process<br>2) Running cost can be saved since fixed Gas tariff per month is cheaper than fixed electric tariff. |
| Any building | In a city with power restriction | ✔ | - No need an additional power transformer<br>- Space and cost can be saved |
| | At extremely low ambient condition | ✔ | Heating capacity is kept up to -20°C without defrost process |

## Project Case Studies




**Savills HQ Dublin & Google Block R. Ireland.**
ECO G 3-way units with a 243kW load.
The project has been such a success that it has recently been awarded a Panasonic PRO Award for Best Contribution of efficient projects within Europe.



**Thomas Cook's Sunprime Atlantic View resort.**
A holiday resort in the Canaries. Spain.
229 rooms plus full spa and swimming pool facility.



**CAPITA call centre. UK.**
11 ECO G 3-way units.
Over 150 indoor units in meeting rooms and open-plan areas.
Intelligent touch screen controller, the CZ-256ESMC2.



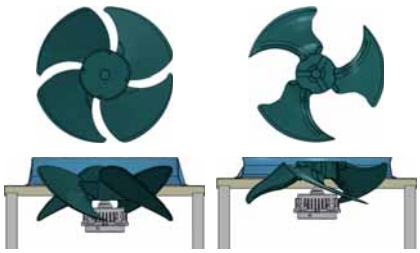
**French winery Gennevilliers, France.**
ECO G 3-way units. One of the best solution utilized our ECO G solution for wine production process.

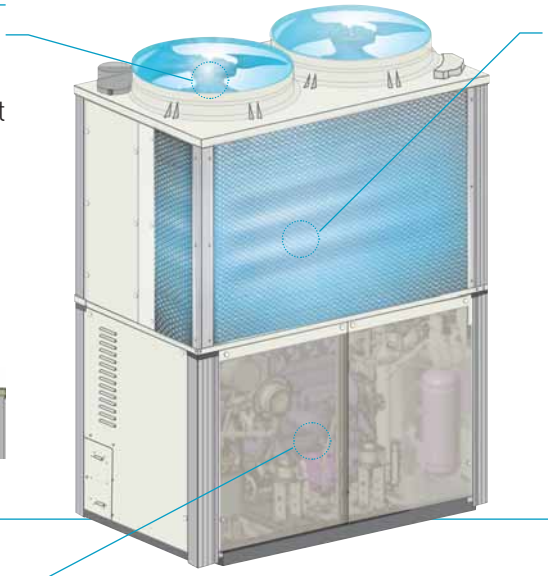
# ECO G 3 SERIES

## Improvement in blast efficiency

**New 3-blades fan.**

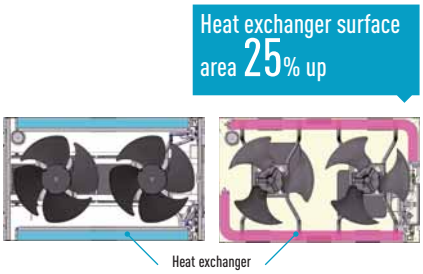
Propeller shape with 3 blades is more efficient
Max. 30% of fan electrical consumption is saved compared to conventional fan.



## New "L" type heat exchanger

Heat exchanger surface area is included by 25% compared to conventional model to optimize efficiency.

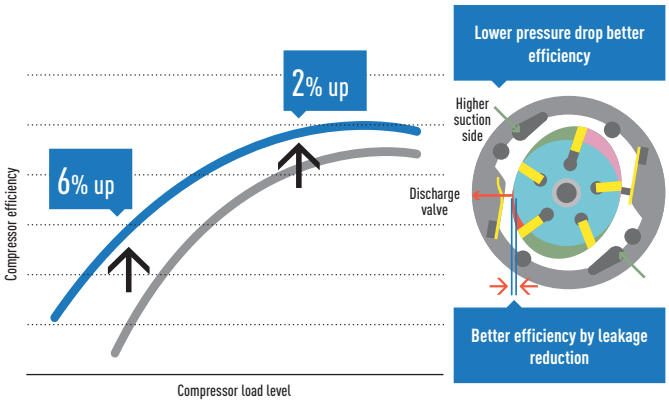



## Better partial load control

Reduce start / stop loss has reduced by expanding the are where continuous operation is possible. Annual operation efficiency has further improved by better efficiency at lower partial load.

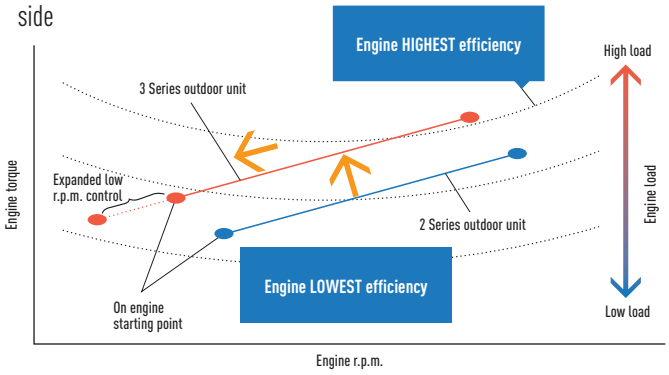
### Compressor.

- Amount of internal leakage has reduced by the reduction of clearance, the compressor efficiency in the low load and low rotation region has been greatly improved.
  Moreover, efficiency of high speed and high load is also improved by reduction of suction pressure loss due to expansion of suction path
- Optimize compressor capacity




### Engine.

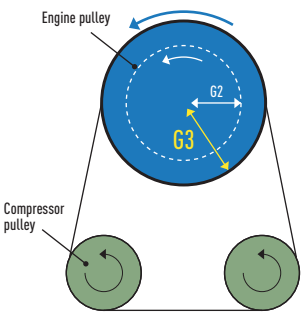
- Continuous operation area has expanded at lower partial load by expanding operation area of lower speed
- Engine efficiency has improved by shifting output points to higher torque side




### Engine pulley.

- Bigger diameter of engine pulley contributes the optimization of the compressor rotation speed ratio with engine speed

Higher engine pulley diameter giving better performance at partial load and reducing ON/OFF operation.







## Line up of GE3 2-Pipe W-Multi

- For new or renewal
- Available for water heat exchanger
- Maximum 60HP combination

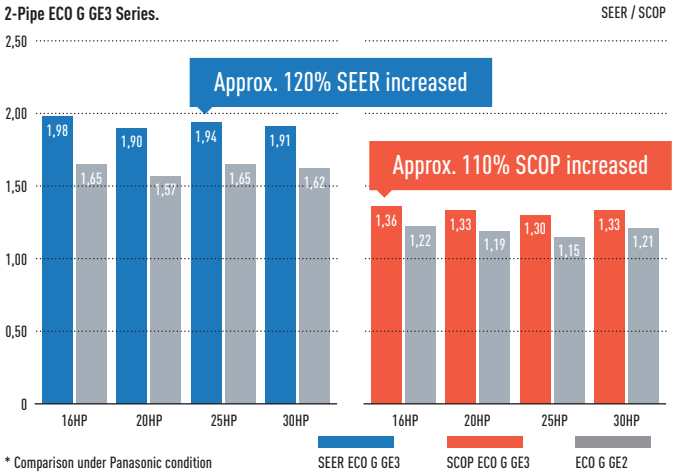
# Introducing new ECO G 3 Series. Optimized energy saving with reliable Panasonic technologies.

## The highest seasonal performance in all capacity ranges

**High power efficiency of W-Multi system.**
ECO G 3 Series system offers seasonal efficiency which has been drastically improved with new heat exchanger design, blast efficiency, partial load control.

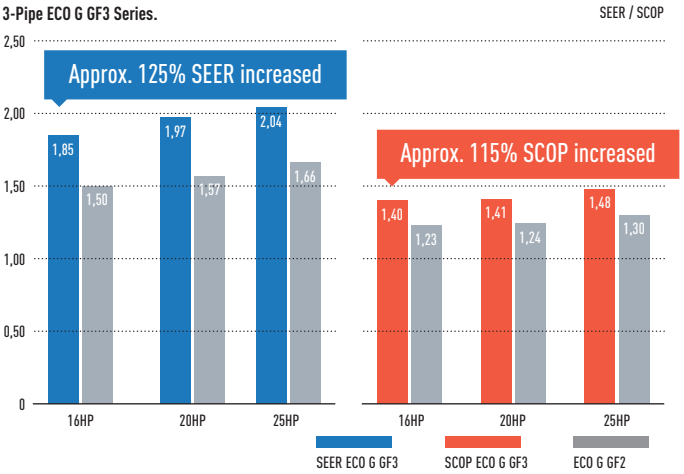
**Compared to conventional model ECO G 2 Series.**
All models are newly developed and have maximum 25% of SEER, 15% of SCOP better than conventional model.

**2-Pipe ECO G GE3 Series.**



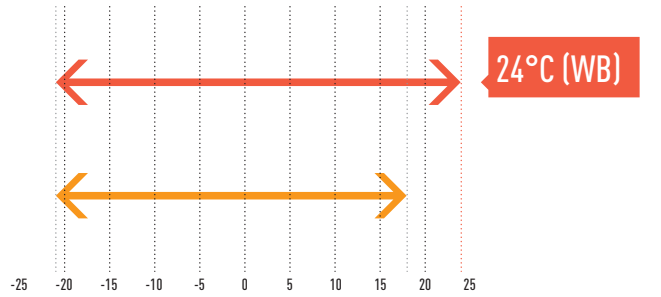

* Comparison under Panasonic condition follows EN14825.

**3-Pipe ECO G GF3 Series.**




## Heating design operation conditions (GE3)

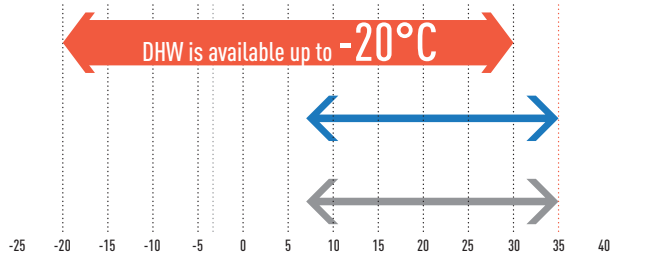
Operating range in heating has been expanded up to 24°C (WB) for air to water system to meet the demand of swimming pool application.




Heating operation range:
- Air to water system: -21 ~ +24 (°C WB)
- Air to air system: -21 ~ +18 (°C WB)

## DHW priority mode setting in heating (GE3)

Ambient temperature range for DHW production is expandable by setting depending on DHW needs. Hot water at 65°C is available in heating without additional electric heaters.




Heating: Outside air temperature °C ( WB).
* In normal mode, heat from engine exhaust is used for preventing defrost.

## No defrost requirement (GE3 / GF3)

No defrost mode is selectable to get higher capacity under low ambient temperature.

## Flexible design with wide line up of indoor units

The advanced GE3 series can connect up to 64 indoor units.

| Series | 16HP | 20HP | 25HP | 30HP | 32HP | 36HP | 40HP | 45HP | 50HP | 55HP | 60HP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Pipe ECO G GE3 Series | 26 | 33 | 41 | 50 | 52 | 59 | 64 | 64 | 64 | 64 | 64 |
| 3-Pipe ECO G GF3 Series | 24 | 24 | 24 | – | – | – | – | – | – | – | – |

# 2-Pipe ECO G GE3 Series



The new GE3 Series has a top level of seasonal efficiency in this category. In addition, this product fits with special needs for commercial application thanks to DHW priority setting and Auto pump down functions.

## Technical focus

- Superior seasonal energy efficiency, maximum 240,1%
- DHW priority setting
- Operating range in heating down to -21°C and up to +24°C for air to water system
- No defrost cycle
- Capacity ratio 50 ~ 200% [1)]
- 0-10V control demand by a connection with 3rd party controllers (CZ-CAPBC2 required)
- Option of DX or chilled water for indoor heat exchange
- Maximum total piping length: 780m

1) 50 ~ 200% only when one outdoor unit is installed. In other cases 50 ~ 130%.

| **HP** | | | **16HP** | **20HP** | **25HP** | **30HP** |
|---|---|---|---|---|---|---|
| **Model** | | | **U-16GE3E5** | **U-20GE3E5** | **U-25GE3E5** | **U-30GE3E5** |
| Power supply | Voltage | V | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 |
| | Phase | | Single Phase | Single Phase | Single Phase | Single Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 45,00 | 56,00 | 71,00 | 85,00 |
| Refrigeration load Pdesign | | kW | 45,00 | 56,00 | 71,00 | 85,00 |
| **ηsc (LOT21) [1)]** | | **%** | **220,60** | **219,30** | **240,10** | **229,30** |
| Input power cooling | | kW | 1,17 | 1,12 | 1,80 | 1,80 |
| Hot water in cooling mode (at 65°C outlet) | | kW | 23,60 | 29,10 | 36,40 | 46,00 |
| Max COP in hot water | | W/W | 1,55 | 1,55 | 1,49 | 1,47 |
| Gas consumption cooling | | kW | 41,10 | 52,10 | 67,20 | 84,10 |
| Heating capacity | Standard | kW | 50,00 | 63,00 | 80,00 | 95,00 |
| | Low temperature | kW | 53,00 | 67,00 | 78,00 | 90,00 |
| Refrigeration load Pdesign | | kW | 37,00 | 53,00 | 60,00 | 65,00 |
| **ηsh (LOT21) [1)]** | | **%** | **150,60** | **143,70** | **146,90** | **151,30** |
| Input power heating | | kW | 0,56 | 1,05 | 0,91 | 1,75 |
| Gas consumption heating | Standard | kW | 38,00 | 51,10 | 68,60 | 75,30 |
| | Low temperature | kW | 45,40 | 62,70 | 60,70 | 73,90 |
| Starter amperes | | A | 30 | 30 | 30 | 30 |
| External static pressure | | Pa | 10 | 10 | 10 | 10 |
| Air volume | | m³/min | 370 | 420 | 460 | 460 |
| Sound power | Normal / Silent mode | dB | 80/77 | 80/77 | 84/81 | 84/81 |
| Dimension | H x W x D | mm | 2255 x 1650 x 1000 | 2255 x 1650 x 1000 | 2255 x 2026 x 1000 | 2255 x 2026 x 1000 |
| Net weight | | kg | 765 | 765 | 870 | 880 |
| Piping connections | Liquid pipe | Inch (mm) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 3/4 (19,05) |
| | Gas pipe | Inch (mm) | 1-1/8 (28,58) | 1-1/8 (28,58) | 1-1/8 (28,58) | 1-1/4 (31,75) |
| | Fuel gas | Inch (mm) | 19,05 (R3/4) | 19,05 (R3/4) | 19,05 (R3/4) | 19,05 (R3/4) |
| | Exhaust drain | mm | 25 | 25 | 25 | 25 |
| | Hot water supply in/out | | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) |
| Elevation difference (in/out) | | | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 11,50/24,00 | 11,50/24,00 | 11,50/24,00 | 11,50/24,00 |
| Maximum number of connectable indoor units | | | 26 | 33 | 41 | 50 |
| Operating range | Cool Min ~ Max | °C (DB) | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C (WB) | -21 ~ +18 | -21 ~ +18 | -21 ~ +18 | -21 ~ +18 |

1) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281.

Hot water take out function added, EU safety regulation standard cleared. 25HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto pump down function.

GAS POWERED ECO G

5 YEARS COMPRESSOR WARRANTY

# 2-Pipe ECO G GE3 Series combination



The new GE3 Series has a top level of seasonal efficiency in this category. In addition, this product fits with special needs for commercial application thanks to DHW priority setting and Auto pump down functions.

## Technical focus

- Maximum 60HP combination
- Superior seasonal energy efficiency, maximum 240,1%
- DHW priority setting
- Operating range in heating down to -21°C and up to +24°C for air to water system
- No defrost cycle
- 0-10V control demand by a connection with 3rd party controllers (CZ-CAPBC2 required)
- Option of DX or chilled water for indoor heat exchange
- Maximum total piping length: 780m

| HP | | | 32HP | 36HP | 40HP | 45HP | 50HP | 55HP | 60HP |
|---|---|---|---|---|---|---|---|---|---|
| Model | | | U-16GE3E5<br>U-16GE3E5 | U-16GE3E5<br>U-20GE3E5 | U-20GE3E5<br>U-20GE3E5 | U-20GE3E5<br>U-25GE3E5 | U-25GE3E5<br>U-25GE3E5 | U-25GE3E5<br>U-30GE3E5 | U-30GE3E5<br>U-30GE3E5 |
| Power supply | Voltage | V | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 | 220/230/240 |
| | Phase | | Single Phase | Single Phase | Single Phase | Single Phase | Single Phase | Single Phase | Single Phase |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Cooling capacity | | kW | 90,00 | 101,00 | 112,00 | 127,00 | 142,00 | 156,00 | 170,00 |
| Input power cooling | | kW | 2,34 | 2,29 | 2,24 | 2,92 | 3,60 | 3,60 | 3,60 |
| Hot water in cooling mode (at 65°C outlet) | | kW | 47,20 | 52,70 | 58,20 | 65,50 | 72,80 | 82,40 | 92,00 |
| Max COP in hot water | | W/W | 1,55 | 1,55 | 1,55 | 1,52 | 1,49 | 1,48 | 1,47 |
| Gas consumption cooling | | kW | 82,20 | 93,20 | 104,20 | 119,30 | 134,40 | 151,30 | 168,20 |
| Heating capacity | Standard | kW | 100,00 | 113,00 | 126,00 | 143,00 | 160,00 | 175,00 | 190,00 |
| | Low temperature | kW | 106,00 | 120,00 | 134,00 | 145,00 | 156,00 | 168,00 | 180,00 |
| Input power heating | | kW | 1,12 | 1,61 | 2,10 | 1,96 | 1,82 | 2,66 | 3,50 |
| Gas consumption heating | Standard | kW | 76,00 | 89,10 | 102,20 | 119,70 | 137,20 | 143,90 | 150,60 |
| | Low temperature | kW | 90,80 | 108,10 | 125,40 | 123,40 | 121,40 | 134,60 | 147,80 |
| Starter amperes | | A | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| External static pressure | | Pa | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Air volume | | m³/min | 370/370 | 370/420 | 420/420 | 420/460 | 460/460 | 460/460 | 460/460 |
| Sound power | Normal / Silent mode | dB | 83/80 | 83/80 | 83/80 | 86/83 | 87/84 | 87/84 | 87/84 |
| Dimension | Height | mm | 2255 | 2255 | 2255 | 2255 | 2255 | 2255 | 2255 |
| | Width | mm | 1650+100<br>+1650 | 1650+100<br>+1650 | 1650+100<br>+1650 | 1650+100<br>+2026 | 2026+100<br>+2026 | 2026+100<br>+2026 | 2026+100<br>+2026 |
| | Depth | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Net weight | | kg | 1530(765+765) | 1530(765+765) | 1530(765+765) | 1635(765+870) | 1740(870+870) | 1750(870+880) | 1760(880+880) |
| Piping connections | Liquid pipe | Inch (mm) | 3/4(19,05) | 3/4(19,05) | 3/4(19,05) | 3/4(19,05) | 3/4(19,05) | 7/8(22,22) | 7/8(22,22) |
| | Gas pipe | Inch (mm) | 1-1/4(31,75) | 1-1/4(31,75) | 1-1/2(38,10) | 1-1/2(38,10) | 1-1/2(38,10) | 1-1/2(38,10) | 1-1/2(38,10) |
| | Fuel gas | Inch (mm) | 19,05(R3/4) | 19,05(R3/4) | 19,05(R3/4) | 19,05(R3/4) | 19,05(R3/4) | 19,05(R3/4) | 19,05(R3/4) |
| | Exhaust drain port | mm | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | Hot water supply in/out | | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) |
| Elevation difference (in/out) | | | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 2x11,50/24,00 | 2x11,50/24,00 | 2x11,50/24,00 | 2x11,50/24,00 | 2x11,50/24,00 | 2x11,50/24,00 | 2x11,50/24,00 |
| Maximum number of connectable indoor units | | | 52 | 59 | 64 | 64 | 64 | 64 | 64 |
| Operating range | Cool Min ~ Max | °C | -10~+43 | -10~+43 | -10~+43 | -10~+43 | -10~+43 | -10~+43 | -10~+43 |
| | Heat Min ~ Max | °C | -21~+18 | -21~+18 | -21~+18 | -21~+18 | -21~+18 | -21~+18 | -21~+18 |

Data is for reference. Hot water take out function added, EU safety regulation standard cleared. 25HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto pump down function.

GAS POWERED ECO G

5 YEARS COMPRESSOR WARRANTY

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# 3-PIPE ECO G GF3 SERIES



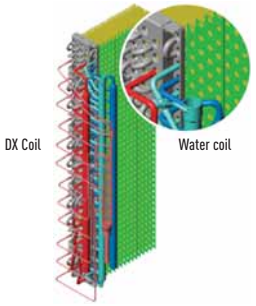
## Power supply problems?

If you are short of electrical power, our gas heat pump could be the perfect solution:

- Runs on natural gas or LPG and just needs Single Phase supply
- Enables the building's electrical power supply to be used for other critical electrical demands
- Reduces capital cost to upgrade power substations to run heating and cooling systems
- Reduces power loadings within a building especially during peak periods
- Electricity supply freed up for other uses such as IT servers, commercial refrigeration, manufacturing, lighting etc.

### ECO G Outdoor Heat Exchanger.

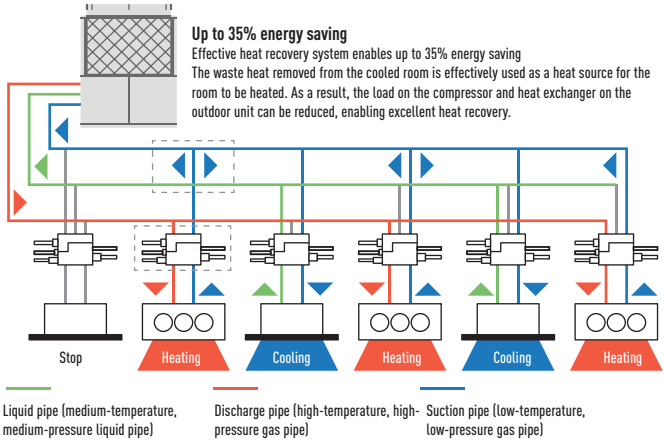
- Integrated DX and hot water coil
- No defrost required
- Faster reaction to demand for heating




## Excellent performance and free Domestic Hot Water

Panasonic 3-Pipe Multi system is capable of simultaneous heating/cooling and individual operation of each indoor unit by only one outdoor unit. As a result, efficient individual air conditioning is possible in buildings having diverse room temperatures.
In addition, Domestic Hot Water is created for free in cooling mode without additional boilers or electric heaters.

**System example.**
Improved maintenance intervals. The unit only needs to be serviced every 10,000 hours. This is the best in the industry.




## Solenoid valve kit.

To be fitted on all 'zones' to allow simultaneous heating and cooling. Up to 24 indoor units are capable of simultaneous heating/cooling operation. Oil-recovery operation to gives more stable comfort air-conditioning control.

**3-Pipe control Solenoid valve kit**



**CZ-P56HR3**
Up to 5,60kW

**KIT-P56HR3**
(CZ-P56HR3+CZ-CAPE2)

**CZ-P160HR3**
Up to 16,00kW

**KIT-P160HR3**
(CZ-P160HR3+CZ-CAPE2)

**3-Pipe control PCB**

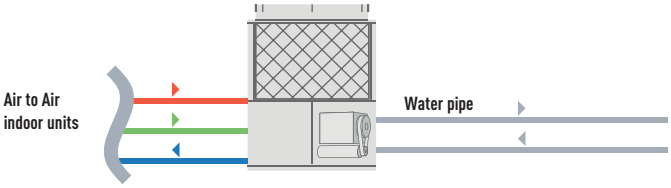


**CZ-CAPE2***
3-Pipe control PCB

* For wall mounted. Must be added to the CZ-P56HR3 or CZ-P160HR3.

## DHW production in heating and cooling

Free DHW is available 365 days a year, in all seasons. Hot water is produced effectively from waste heat from engine.
Perfect solution for hotel projects required high demand of hot water.




| HP | 16HP | 20HP | 25HP |
|---|---|---|---|
| Free DHW (in cooling mode) | 23,60kW | 27,10kW | 40,50kW |

**HOT WATER AT 65°C OUTLET FOR FREE**






# 3-Pipe ECO G GF3 Series



## DHW available in all seasons

Domestic hot water can be taken out from waste heat of engine effectively in heating & cooling - all year round.

## Outstanding seasonal energy efficiency, maximum 204,9%

- Capacity ratio 50 ~ 200%
- No defrost cycle
- Maximum total piping length: 780m

## Flexible installation

- Full heating capacity down to -21°C (WB)
- DHW production for all the year
- Maximum 24 indoor units connectable

| HP | | | 16HP | 20HP | 25HP |
|---|---|---|---|---|---|
| **Model** | | | **U-16GF3E5** | **U-20GF3E5** | **U-25GF3E5** |
| Power supply | Voltage | V | 220/230/240 | 220/230/240 | 220/230/240 |
| | Phase | | Single Phase | Single Phase | Single Phase |
| | Frequency | Hz | 50 | 50 | 50 |
| Cooling capacity | | kW | 45,00 | 56,00 | 71,00 |
| Refrigeration load Pdesign | | kW | 45,00 | 56,00 | 71,00 |
| **ηsc (LOT21) [1]** | | **%** | **185,20** | **198,80** | **204,90** |
| Input power cooling | | kW | 1,17 | 1,40 | 1,80 |
| Hot water in cooling mode (at 65°C outlet) | | kW | 23,60 | 27,10 | 40,50 |
| Gas consumption cooling | | kW | 45,80 | 54,80 | 73,70 |
| Heating capacity | Standard | kW | 50,00 | 63,00 | 80,00 |
| | Low temperature | kW | 53,00 | 67,00 | 78,00 |
| Refrigeration load Pdesign | | kW | 38,00 | 52,00 | 60,00 |
| **ηsh (LOT21) [1]** | | **%** | **139,20** | **140,20** | **150,90** |
| Input power heating | | kW | 0,56 | 1,05 | 0,91 |
| Gas consumption heating | Standard | kW | 42,20 | 51,10 | 68,60 |
| Starter amperes | | A | 30 | 30 | 30 |
| Air volume | | $m^3$/min | 370 | 400 | 460 |
| Sound power | Normal / Silent mode | dB | 80/77 | 81/78 | 84/81 |
| Dimension | H x W x D | mm | 2255 x 1650 x 1000 | 2255 x 1650 x 1000 | 2255 x 2026 x 1000 |
| Net weight | | kg | 775 | 775 | 880 |
| Piping connections | Liquid pipe | Inch (mm) | 3/4 (19,05) | 3/4 (19,05) | 3/4 (19,05) |
| | Gas pipe | Inch (mm) | 1 1/8 (28,58) | 1 1/8 (28,58) | 1 1/8 (28,58) |
| | Discharge | Inch (mm) | 7/8 (22,22) | 1 (25,40) | 1 (25,40) |
| | Fuel gas | Inch (mm) | 19,05 (R3/4) | 19,05 (R3/4) | 19,05 (R3/4) |
| | Exhaust drain port | mm | 25 | 25 | 25 |
| | Hot water supply in/out | | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) | Rp3/4 (Nut, thread) |
| Elevation difference (in/out) | | m | 50 | 50 | 50 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 11,50/24,00 | 11,50/24,00 | 11,50/24,00 |
| Maximum number of connectable indoor units | | | 24 | 24 | 24 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -21 ~ +18 | -21 ~ +18 | -21 ~ +18 |

| Solenoid valve kit | | |
|---|---|---|
| | **KIT-P56HR3** | 3-Pipe control Solenoid valve kit (up to 5,60kW) |
| **KIT-P56HR3** | **CZ-P56HR3** | Solenoid valve kit (up to 5,60kW) |
| | **CZ-CAPE2** | 3-Pipe control PCB |
| | **KIT-P160HR3** | 3-Pipe control Solenoid valve kit (from 5,60 to 16,00kW) |
| **KIT-P160HR3** | **CZ-P160HR3** | Solenoid valve kit (up to 16,00kW) |
| | **CZ-CAPE2** | 3-Pipe control PCB |
| **CZ-CAPEK2** | | 3-Pipe control PCB for wall mounted |

| 3-Pipe control box kit | |
|---|---|
| **CZ-P456HR3** | 4 ports 3 pipe box (up to 5,60kW) |
| **CZ-P656HR3** | 6 ports 3 pipe box (up to 5,60kW) |
| **CZ-P856HR3** | 8 ports 3 pipe box (up to 5,60kW) |
| **CZ-P4160HR3** | 4 ports 3 pipe box (up to 16,00kW) |

GAS POWERED ECO G

5 YEARS COMPRESSOR WARRANTY

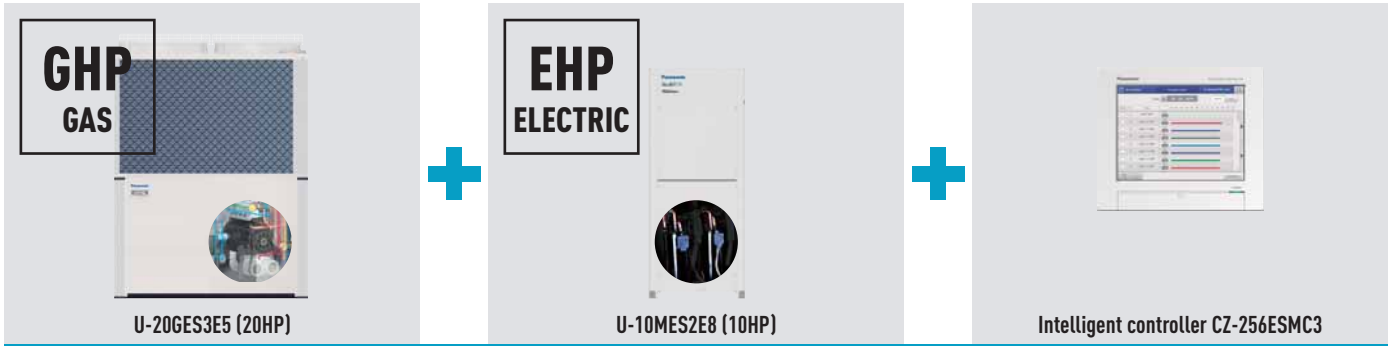
1) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281.
Hot water take out function added, EU safety regulation standard cleared. 25HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto pump down function.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

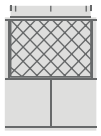
# PANASONIC GHP/EHP HYBRID SYSTEM. FIRST INTELLIGENT TECHNOLOGY



## Taking advantage of Gas and Electricity to achieve better energy saving ever.




U-20GES3E5 (20HP) + U-10MES2E8 (10HP) + Intelligent controller CZ-256ESMC3



**Master unit GHP**
- Load calculation of GHP&EHP
- Operation in accordance with the upper limit setting.
- Individual capacity control
- Device control
- Special control (Defrost, Oil recovery, 4Way-valve matching / Abnormality processing)

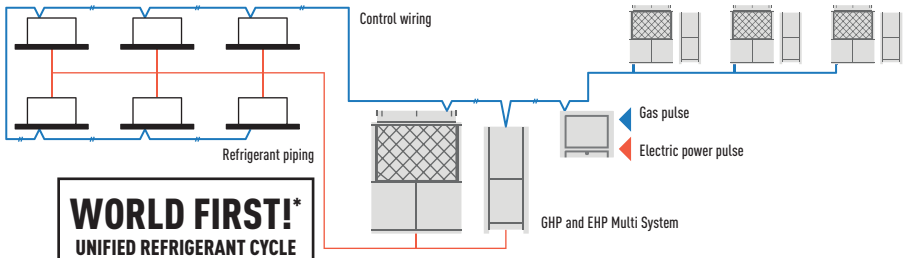


**Slave Unit EHP**



**Intelligent controller**
- Demand monitoring
- Indoor/Total load calculation
- Operation Ratio Indication upper limit setting of MAP according to:
  - Energy unit price
  - Electric power demand
  - Air conditioning load

**Schematic of GHP/EHP Hybrid System**




**WORLD FIRST!***
**UNIFIED REFRIGERANT CYCLE IN GHP AND EHP**

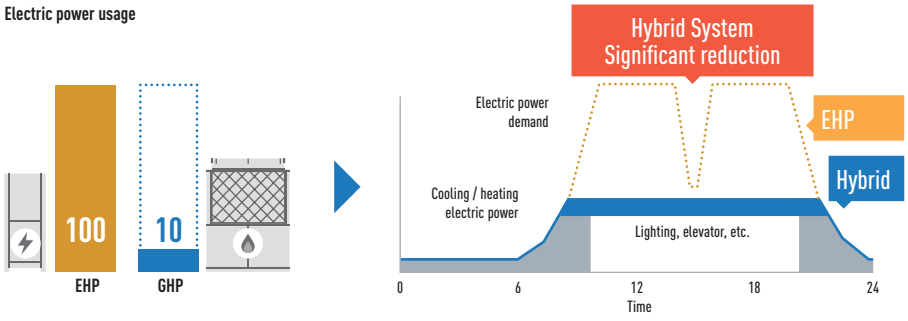
* Introduced as a world first technology by Panasonic in April 2016.

## 1 Peak cut of electricity consumption

Electrical peak demand is significantly reduced thanks to GHP system consuming less than 10% of electricity of EHP system.

* Image of Hotel project.

**Electric power usage**

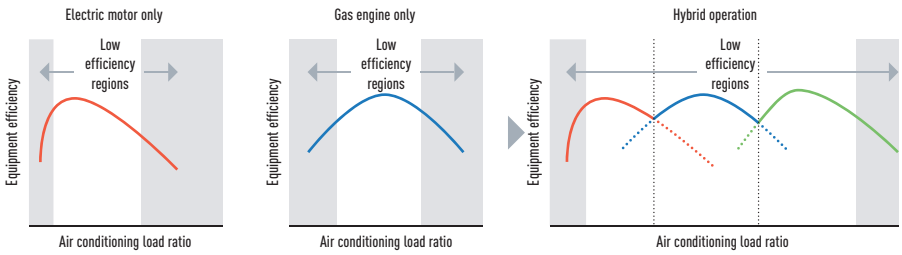



## 2 Optimal control to maximize energy saving

Switching the operation between GHP and EHP system on the basis of usage, energy demand, part load.

* Specification is tentative.

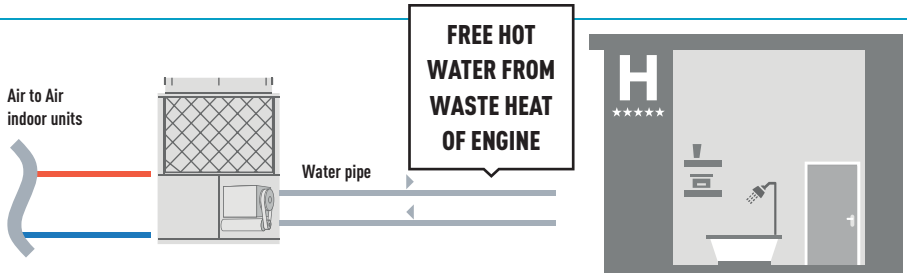
**Optional control method**




## 3 Free Hot Water production by GHP system

Hot water is effectively produced from waste heat of engine.

* Specification is tentative.



# GHP/EHP HYBRID SYSTEM

## It is time to save energy utilising the advantages from gas and electricity by Panasonic reliable ECO G / ECOi technology

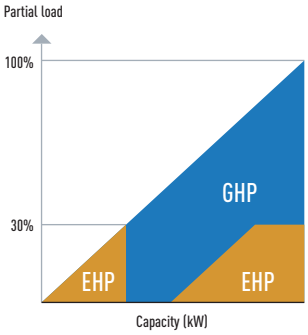
New hybrid system can offer intelligent operation logic for better economy and efficiency by taking the best of ECO G and ECOi. This is like a hybrid car in heating and cooling system.



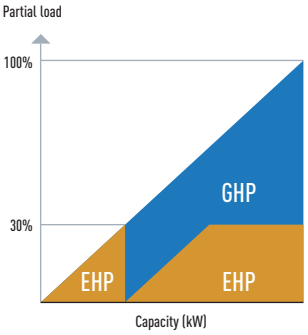
## How smartly operate GHP and EHP system depending on your needs?

4 different mode settings are available with the intelligent controller. Switch the operation between GHP and EHP or operating both units together to maximize the effect for different requirement such as economy and efficiency.

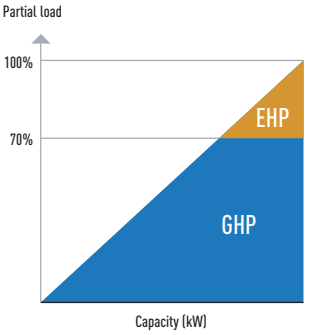
**Economy mode**



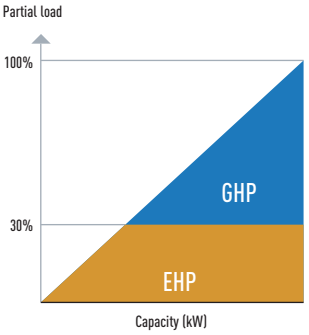

**Efficiency mode**



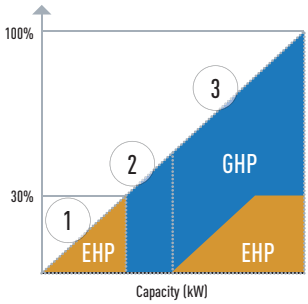

**GHP first mode**



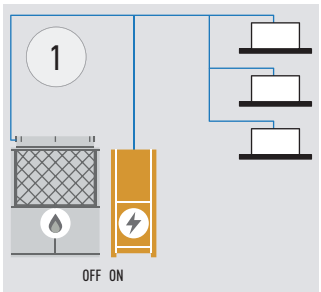

**EHP first mode**



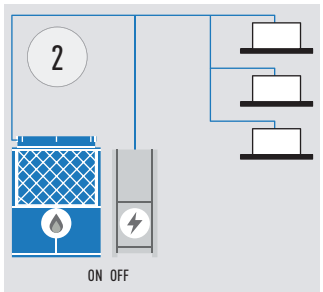

## Optimal control example: Economy mode



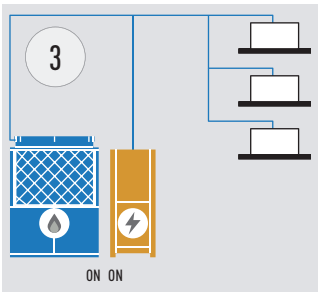

**Only EHP**




**Only GHP**



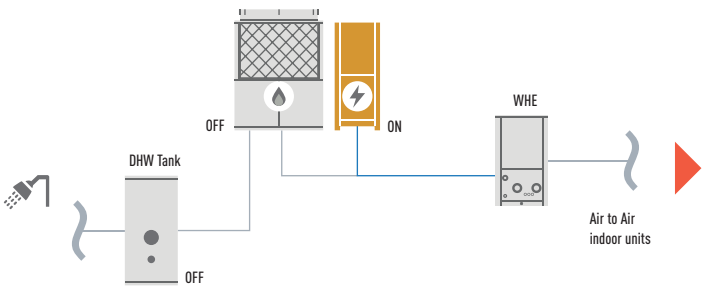

**Balanced operation**



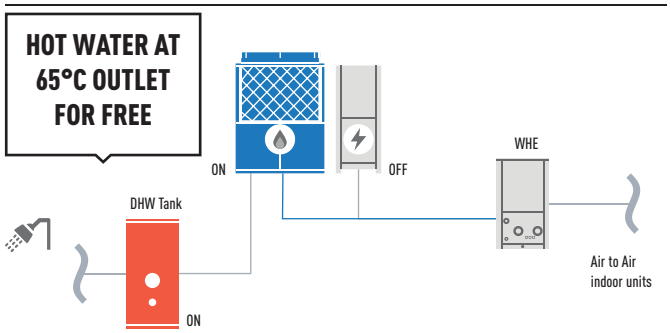

## DHW priority mode in Hybryd + WHE System

When DHW is demanded during cooling operation by EHP, EHP is automatically turned "OFF" and GHP is turned "ON" to produce DHW for free.

**High efficiency mode**




**DHW priority mode**



# 2-Pipe Hybrid GHP/EHP



- Extended lifespan with intelligent energy management.
  The goal is for the EHP and GHP to work at optimal speeds
- Low energy cost
- Low emissions

## Technical focus

- 4 different setting (Economy, Efficiency, GHP first mode, EHP first mode)
- DHW energy recovery 26,2kW (at 65°C) by waste heat of engine
- Unified refrigerant cycle in GHP and EHP for easy installation
- DHW priority mode with WHE system
- Up to 48 indoor units connectable

| | | | Hybrid GHP | Hybrid EHP |
|---|---|---|---|---|
| **HP** | | | **20HP** | **10HP** |
| **Outdoor Units** | | | **U-20GES3E5** | **U-10MES2E8** |
| Power supply | Voltage | V | 220/230/240 | 220/230/240 |
| | Phase | | Single Phase | Three Phase |
| | Frequency | Hz | 50 | 50 |
| Cooling capacity | | kW | 56,00 | 28,0 |
| **ηsh (LOT21) [1]** | | **%** | **211,80** | **275,40** |
| Running current cooling | | A | 5,18 | 10,70/10,20/9,80 |
| Input power cooling | | kW | 1,12 | 6,41 |
| Hot water in cooling mode (at 65°C outlet) | | kW | 26,20 | — |
| Gas consumption cooling | | kW | 52,10 | — |
| Heating capacity | | kW | 63,00 | 31,50 |
| **ηsh (LOT21) [1]** | | **%** | **143,20** | **167,60** |
| Running current heating | | A | 4,79 | 11,10/10,50/10,10 |
| Input power heating | | kW | 1,05 | 6,62 |
| Gas consumption heating | Standard | kW | 51,10 | — |
| Starting current | | A | 30 | 1 |
| Air volume | | $m^3$/min | 420 | 224 |
| Sound pressure | Normal mode | dB(A) | 58 | 56 |
| Sound power | Normal mode | dB | 80 | 77 |
| Dimension | H x W x D | mm | 2255 x 1650 x 1000 | 1842 x 770 x 1000 |
| Net weight | | kg | 765 | 210 |
| Piping connections [2] | Liquid pipe | Inch (mm) | 5/8 (15,88) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1 1/8 (28,58) | 7/8 (22,22) |
| | Balance pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) |
| Drain heater | | W | 40 | — |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 11,05/23,0724 | 5,60/11,6928 |
| Maximum allowable indoor / outdoor capacity ratio % | | | 50 ~ 130 | 50 ~ 130 |
| Operating range | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -21 ~ +18 | -21 ~ +18 |

1) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281.
2) Please refer service manual when the maximum piping length exceeds 90 meters (equivalent length).

HIGH COP | GAS POWERED ECO G | 5 YEARS COMPRESSOR WARRANTY

# WATER HEAT EXCHANGER FOR HYDRONIC APPLICATIONS



## Chiller replacement. Chilled water supply to fan coils

**Chiller replacement.**

When some old chillers needed replacing at the end of their operational lifetime, ECO Gs with Water Heat Exchangers enabled the project to be carried out in stages whilst still utilising the existing water pipe work and fan coils. This enabled the project to be delivered on time, to a restricted budget and avoided all issues regarding refrigerant in confined spaces.



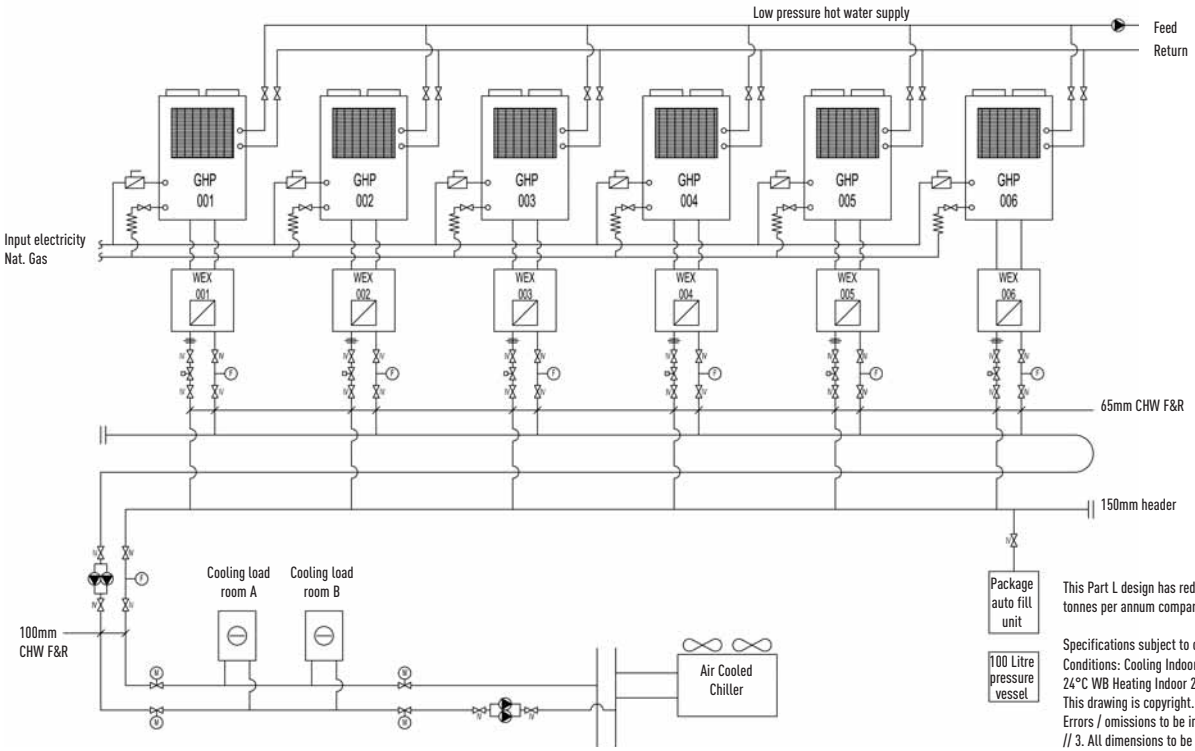


When a top London restaurant opened, it needed large volumes of fresh air to ensure the optimum dining environment. ECO G units connected to the cooling coils within the air handling equipment ensured the air was introduced in the right condition in both summer and winter.

## Connection to 'close control' computer equipment

**Computer room applications.**

When all available electrical power needed to be utilised for the IT equipment for a leading international bank, the cooling load of over 450kW had to be powered by gas. The outdoor units were connected via Water Heat Exchangers to cooling coils inside the 'close control' units thereby maintaining a conditioned environment for temperature and humidity. By utilising the hot water function over 100kW of hot water are supplied to the building and therefore the additional benefit of considerable $CO_2$ savings is ensured.




This Part L design has reduced $CO_2$ Emissions by 26% or 166 tonnes per annum compared to electric chillers.

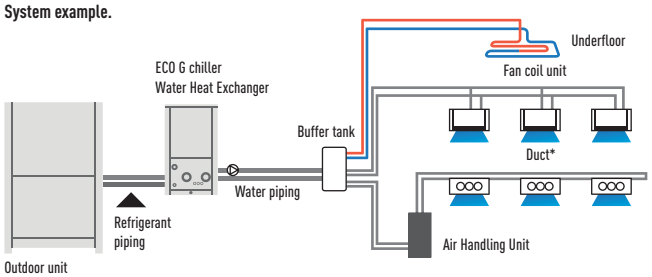
Specifications subject to change without notice. Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB. This drawing is copyright. // 1. Do not scale this drawing // 2. Errors / omissions to be immediately notified to the Engineer. // 3. All dimensions to be checked on site.

## ECOi Water Heat Exchanger

Electrical VRF with Water Heat Exchanger

- With this easy to install Water Heat Exchanger unit, you can now cover projects up to 51kW hot water demand or 44kW on chilled application on a efficient way and cost effective

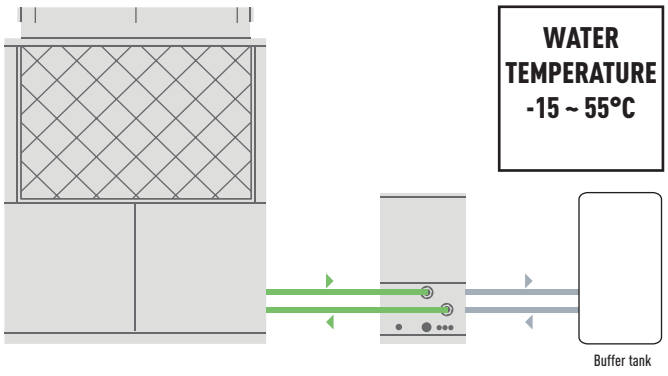
**System example.**




A Buffer tank of minimum 280l for 28kW and 500l for 50kW is always needed.

## Example of Hotel renewal of existing Chiller and Boiler system with Panasonic ECO G and Aquarea mixed solution.

ECO G and Aquarea are the smart solution for renewal Chiller/Boiler applications with annual running cost savings around 13.600€.



# 2-Pipe ECOi with Water Heat Exchanger for chilled and hot water production



## Water Heat Exchanger (WHE) for hydronic applications

WHE for ECOi system controlled by a timer remote control CZ-RTC5B.
Energy-efficient capacity control with superior external static pressure is now ready.
Availability of easy vertical stacking allows installations in a limited space (up to 3 units)*.
Stainless steel plate heat exchanger with anti-freeze protection control.
Change over between heating and cooling operation.

* Stacking kit (PAW-3WSK) is necessary.

## Technical focus

- Heating, cooling and DHW
- A class water pump included (only in P model)
- Flexible modularity from 25kW
- Better partial load vs standard chiller system
- Compatible with all centralized controllers
- Maximum distance between outdoor unit and WHE: 170m
- Maximum hot water outlet temperature: 45°C
- Minimum chilled water outlet temperature: 5°C
- Outdoor temperature range in heating mode: -11°C to +15°C (with low temperature kit -25°C)

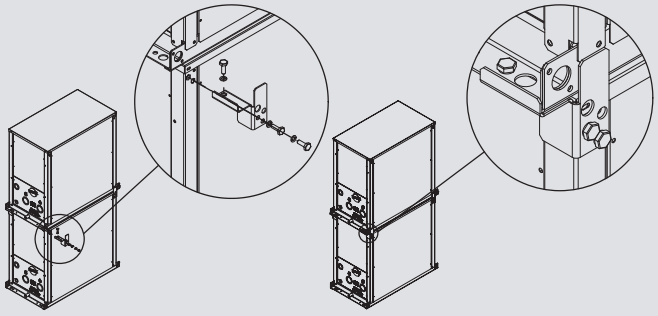
| **Hydrokit with A class water pump** | | | **PAW-250WP5G** | **PAW-500WP5G** |
|---|---|---|---|---|
| **Hydrokit without pump** | | | **PAW-250W5G** | **PAW-500W5G** |
| Cooling capacity at 35°C, water outlet 7°C | | kW | 25,00 | 50,00 |
| Heating capacity | | kW | 28,00 | 56,00 |
| Heating capacity at +7°C, heating water temperature at 45°C | | kW | 28,00 | 56,00 |
| COP at +7°C with heating water temperature at 45°C | | W/W | 2,97 | 3,10 |
| **Heating Energy Efficiency class at 35°C** [1] | | | A+ | A++ |
| **ηsh (LOT21)** [2] | | **%** | **164,00** | **158,00** |
| Dimension | H x W x D | mm | 1000 x 575 x 1110 | 1000 x 575 x 1110 |
| Net weight | | kg | 135 (140 with pump) | 155 (165 with pump) |
| Water pipe connector | | | Rp2 Female Thread (50A) | Rp2 Female Thread (50A) |
| Heating water flow (ΔT=5 K. 35°C) | | $m^3/h$ | 5,16 | 10,32 |
| Capacity of integrated electric heater | | kW | Not equipped | Not equipped |
| Flow switch | | | Equipped | Equipped |
| Water filter | | | Equipped | Equipped |
| Input power | | kW | 0,329 (with A class water pump) / 0,024 (without pump) | 0,574 (with A class water pump) / 0,024 (without pump) |
| Maximum current | | A | 1,43 (with A class water pump) / 0,10 (without pump) | 2,50 (with A class water pump) / 0,10 (without pump) |
| **Outdoor unit** | | | **U-10ME2E8** | **U-20ME2E8** |
| Sound pressure | | dB(A) | 56 | 60 |
| Dimension | H x W x D | mm | 1842 x 770 x 1000 | 1842 x 770 x 1000 |
| Net weight | | kg | 210 | 375 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 5/8 (15,88) |
| | Gas pipe | Inch (mm) | 7/8 (22,22) | 1-1/8 (28,58) |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg | 5,6 *Need Additional gas amount at site | 9,5 *Need Additional gas amount at site |
| Pipe length range / Elevation difference (in/out) | | m | 170 / 50 (OD above) 35 (OD below) | 170 / 50 (OD above) 35 (OD below) |
| Pipe length for nominal capacity | | m | 7,5 | 7,5 |
| Pipe length for additional gas / Additional gas amount (R410A) | | m / g/m | 0 < / Refer to manual | 0 < / Refer to manual |
| Operation range | Heat Min ~ Max | °C | -11 ~ +15 [3] | -11 ~ +15 [3] |
| Water outlet temperature range | Cool Min ~ Max | °C | +5 ~ +15 | +5 ~ +15 |
| | Heat Min ~ Max | °C | +35 ~ +45 | +35 ~ +45 |

| **Accessories** | |
|---|---|
| **PAW-3WSK** | Stacking kit for vertical stacking (4 sets in the Kit) |

1) Unit efficiency energy level: Scale from A++ to G. 2) Seasonal space cooling/heating energy efficiency following COMMISSION REGULATION (EU) 813/2013. 3) With accessory low temperature kit -25 ~ +15°C.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1m from the outdoor unit and at 1,5m height.

**Stacking kit PAW-3WSK.**
It is possible to stack up to 3 units. When stacking units, always anchor the bottom unit to the ground using the anchor holes.



# 2-Pipe ECO G with Water Heat Exchanger for chilled and hot water production



## Water Heat Exchanger (WHE) for hydronic applications

WHE for ECO G system controlled by a timer remote control CZ-RTC5B.
Energy-efficient capacity control with superior external static pressure is now ready.
Availability of easy vertical stacking allows installations in a limited space (up to 3 units)*.
Stainless steel plate heat exchanger with anti-freeze protection control.
Change over between heating and cooling operation.

* Stacking kit (PAW-3WSK) is necessary.

## Technical focus

- Heating, cooling and DHW
- A class water pump included (only in P model)
- No cascade installation up to 80kW
- Free DHW from waste heat of engine
- Compatible with all centralized controllers
- Maximum distance between outdoor unit and WHE: 170m
- Hot water outlet temperatures from 35°C to 55°C
- Chilled water outlet temperatures from -15°C to +15°C
- Minimum outdoor temperature in heating mode: -21°C

| **Hydrokit with A class water pump** | | | **PAW-500WP5G** | **PAW-710WP5G** |
|---|---|---|---|---|
| **Hydrokit without pump** | | | **PAW-500W5G** | **PAW-710W5G** |
| Heating capacity | | kW | 60,00 | 80,00 |
| Heating capacity at +7°C, heating water temperature at 35°C | | kW | 60,90 | 81,20 |
| COP at +7°C with heating water temperature at 35°C | | W/W | 1,15 | 1,18 |
| Heating capacity at +7°C, heating water temperature at 45°C | | kW | 60,00 | 80,00 |
| COP at +7°C with heating water temperature at 45°C | | W/W | 1,02 | 1,04 |
| Heating capacity at -7°C, heating water temperature at 35°C | | kW | 48,20 | 50,80 |
| COP at -7°C, heating water temperature at 35°C | | W/W | 0,80 | 0,80 |
| Heating capacity at -15°C, heating water temperature at 35°C | | kW | 46,30 | 50,00 |
| COP at -15°C with heating water temperature at 35°C | | W/W | 0,80 | 0,80 |
| Refrigeration load Pdesign | | kW | 48,00 | — |
| **Heating Energy Efficiency class at 35°C** [1] | | | A+ | — |
| **ηsh (LOT21)** [2] | | **%** | **130,04** | **127,94** |
| Cooling capacity | | kW | — | — |
| Cooling capacity at +35°C, outlet temperature 7°C, inlet temperature 12°C | | kW | 50,00 | 67,00 |
| EER at +35°C, outlet temperature 7°C, inlet temperature 12°C | | W/W | 0,78 | 0,89 |
| Dimension | H x W x D | mm | 1000 x 575 x 1110 | 1000 x 575 x 1110 |
| Net weight | | kg | 155 (165 with pump) | 160 (175 with pump) |
| Water pipe connector | | | Rp2 Female Thread (50A) | Rp2 Female Thread (50A) |
| Heating water flow (ΔT=5 K. 35°C) | | m³/h | 10,32 | 13,76 |
| Capacity of integrated electric heater | | kW | Not equipped | Not equipped |
| Flow switch | | | Equipped | Equipped |
| Water filter | | | Equipped | Equipped |
| Input power | | kW | 0,574 (with A class water pump) / 0,024 (without pump) | 0,824 (with A class water pump) / 0,024 (without pump) |
| Maximum current | | A | 2,50 (with A class water pump) / 0,10 (without pump) | 3,60 (with A class water pump) / 0,10 (without pump) |
| **Outdoor Unit** | | | **U-20GE3E5** | **U-30GE3E5** |
| Sound power | Normal / Silent | dB | 80 / 77 | 84 / 81 |
| Dimension | H x W x D | mm | 2255 x 1650 x 1000 | 2255 x 2026 x 1000 |
| Net weight | | kg | 765 | 880 |
| Piping connections | Liquid pipe | Inch (mm) | 5/8 (15,88) | 3/4 (19,05) |
| | Gas pipe | Inch (mm) | 1-1/8 (28,58) | 1-1/4 (31,75) |
| Pipe length / Pipe length for nominal capacity | | m | 7 / 170 | 7 / 170 |
| Elevation difference (in/out) | | m | 50 (OD above) 35 (OD below) | 50 (OD above) 35 (OD below) |
| Operation range | Heat Min ~ Max | °C | -21 ~ +24 (until outlet temperature 45) | -21 ~ +24 (until outlet temperature 45) |
| Water outlet temperature range | Cool Min ~ Max | °C | -15 ~ +15 | -15 ~ +15 |
| | Heat Min ~ Max | °C | +35 ~ +55 | +35 ~ +55 |

| **Accessories** | |
|---|---|
| **PAW-3WSK** | Stacking kit for vertical stacking (4 sets in the Kit) |

1) Unit efficiency energy level: Scale from A++ to G. 2) Seasonal space cooling/heating energy efficiency following COMMISSION REGULATION (EU) 813/2013.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1m from the outdoor unit and at 1,5m height.

GAS POWERED ECO G

5 YEARS COMPRESSOR WARRANTY

# LEAK DETECTION AND AUTOMATIC REFRIGERANT PUMP DOWN



## Improving safety and the environment

Panasonic has developed an innovative solution to detect refrigerant leaks that offer complete assurance and protection for end users, building occupiers and the environment. Panasonic's Pump Down System is ideal for hotels, offices and public buildings where safety for occupants and the building owners is of utmost importance.
The system monitors refrigerant leakage continually and provides a warning before refrigerant leaks, preventing major refrigerant loss and potentially damaging the system's efficiency. The new system can improve potential refrigerant loss to approximately 90%.
As well as ensuring safe and reliable operation, Panasonic's Pump Down System contributes to a building qualifying for additional BREEAM points and enables compliance with current EN378 2008 standards, covering applications where refrigeration concentration levels exceed practical safety limits of 0,44 kg/m$^3$.
Panasonic has developed two detection methods that can operate simultaneously to offer complete protection for owners, building occupiers and the environment.

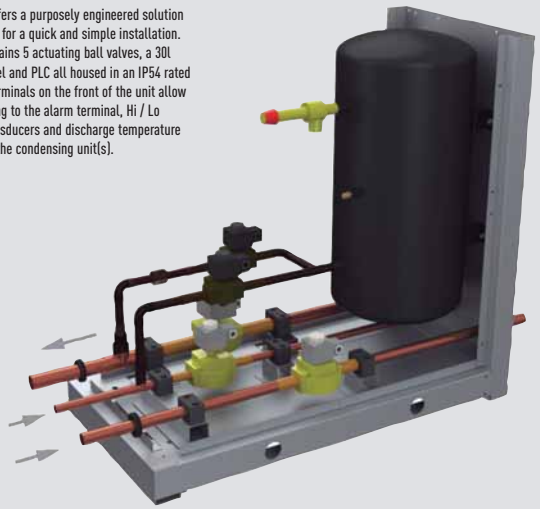
## Pump Down system

**This innovative pump down system can be connected in two ways:**
- With sensor leakage
- Without sensor leakage, using only an innovative algorithm

**Basic pump down function:**
- Detect the leakage
- Activate pump down process
- Collect the gas in the tank
- Close the valves to isolate the gas

**Key points:**
- Comply with legislation
- Protect personnel
- Protect the environment
- Save on operating costs

Panasonic offers a purposely engineered solution which allows for a quick and simple installation. The unit contains 5 actuating ball valves, a 30l storage vessel and PLC all housed in an IP54 rated container. Terminals on the front of the unit allow for easy wiring to the alarm terminal, Hi / Lo pressure transducers and discharge temperature sensor(s) of the condensing unit(s).



## R22 Renewal

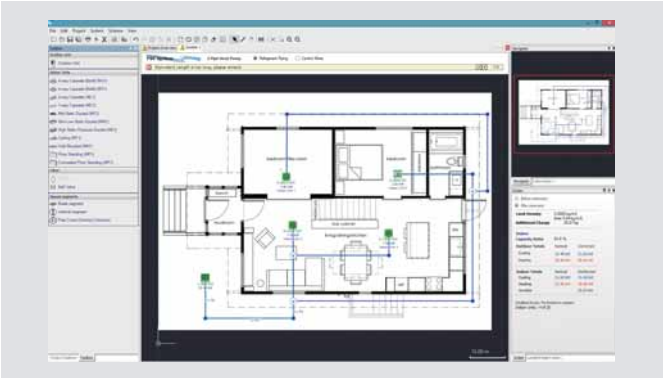
Panasonic's advanced technology enables the system to work with previously installed pipe work by managing the working pressure within the system down to R22 (33 bar) levels, this ensures the system works safely and efficiently without loss of capacity.
The new equipment can offer increased COP/EER by using state of the art inverter compressor and heat exchanger technology.
Having contacted your Panasonic supplier regarding pipe work restrictions and gained approval to use the Panasonic Renewal System there are three main tests that have to be carried out to ensure that the system can be used effectively. Firstly a thorough inspection of the pipe work must be carried out and any damage must be repaired. Secondly an oil test has to be carried out to ensure that the system has not been subject to a compressor burnout during its lifetime. Lastly a VRF Renewal Kit (CZ-SLK2) has to be installed within the pipe work to ensure that the system is cleaned of any remnants of oil.



# DESIGN SUPPORT SOFTWARE FOR VRF

Panasonic VRF DESIGNER

## Features the unique Mounting Scheme function providing more thorough spec-in and tender quotation support for easier, faster completion of work



**The Panasonic VRF Designer software can be used for all Panasonic VRF ME2, LE and MF3.**

Panasonic has identified the importance of ever-increasing demands for fast and accurate responses to customer requests in our industry. More and more emphasis is being placed upon energy-efficiency in our marketplace. The ability to calculate cooling/heating loads and produce information of actual design conditions is a major advantage to any architect, consultant, contractor or end user.

Panasonic understands the time-poor and demanding industry we are in and we are pleased to announce the launch of the next generation of our system design software program.

The Panasonic VRF Designer software has been customised to make the selection and design process as quick and easy as possible.

The design package utilises system wizards and import tools to enable both simple and complex systems to be created. In addition, the system will allow outdoor and indoor units to be dragged on an interactive desktop. This allows users to create everything from realistic floor plans with detailed piping and wiring schematics to send out with quotations, through to installation guidance drawings.

**Features include:**

- Mounting scheme. Design selection from building floor drawing
- Any kind of drawing format. (dxf, jpg, png..etc.)
- Conventional principal scheme
- Easy to use system wizards
- Auto piping and wiring features
- Converted duties for conditions and pipework
- Auto(CAD) (dxf), Excel and PDF export
- Detailed wiring and pipework diagrams
- Automatic price quotation
- Automatic tender document assist
- SEER, SCOP
- ESEER

## Panasonic's Advanced VRF software with AutoCAD® compatibility makes design easier than ever

Panasonic provides bespoke software helping system designers, installers and dealers to very quickly design and size systems, create wiring diagrams and issue bills of quantities at the push of a button.



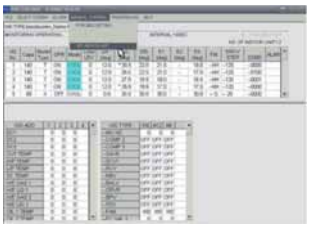
## Panasonic VRF Service Checker

Panasonic will make available to installers and commissioning companies the VRF Service Checker as a communication interface to Panasonic VRF systems. This easy to manage tool checks all parameters of the system.

**The VRF Service Checker allows:**

- On ECOi and Mini ECOi connect anywhere on the P-Link
- Search the P-Link to validate systems that are connected
- Monitor all indoor and outdoor units simultaneously on 1 screen
- Monitor all Temperature data, Pressure data, Valve position, and alarm status on 1 screen
- Data can be viewed in Graph or number format
- Controlling the indoor unit ON/OFF, MODE, SET POINT, FAN, and TEST mode
- Switching between various systems on same communication P-Link (ECOi only)
- Monitor and record at a set interval time
- Record and review the data at a later date
- Update software as ROM flash writer

This Panasonic VRF Service Checker is available from your service partner.



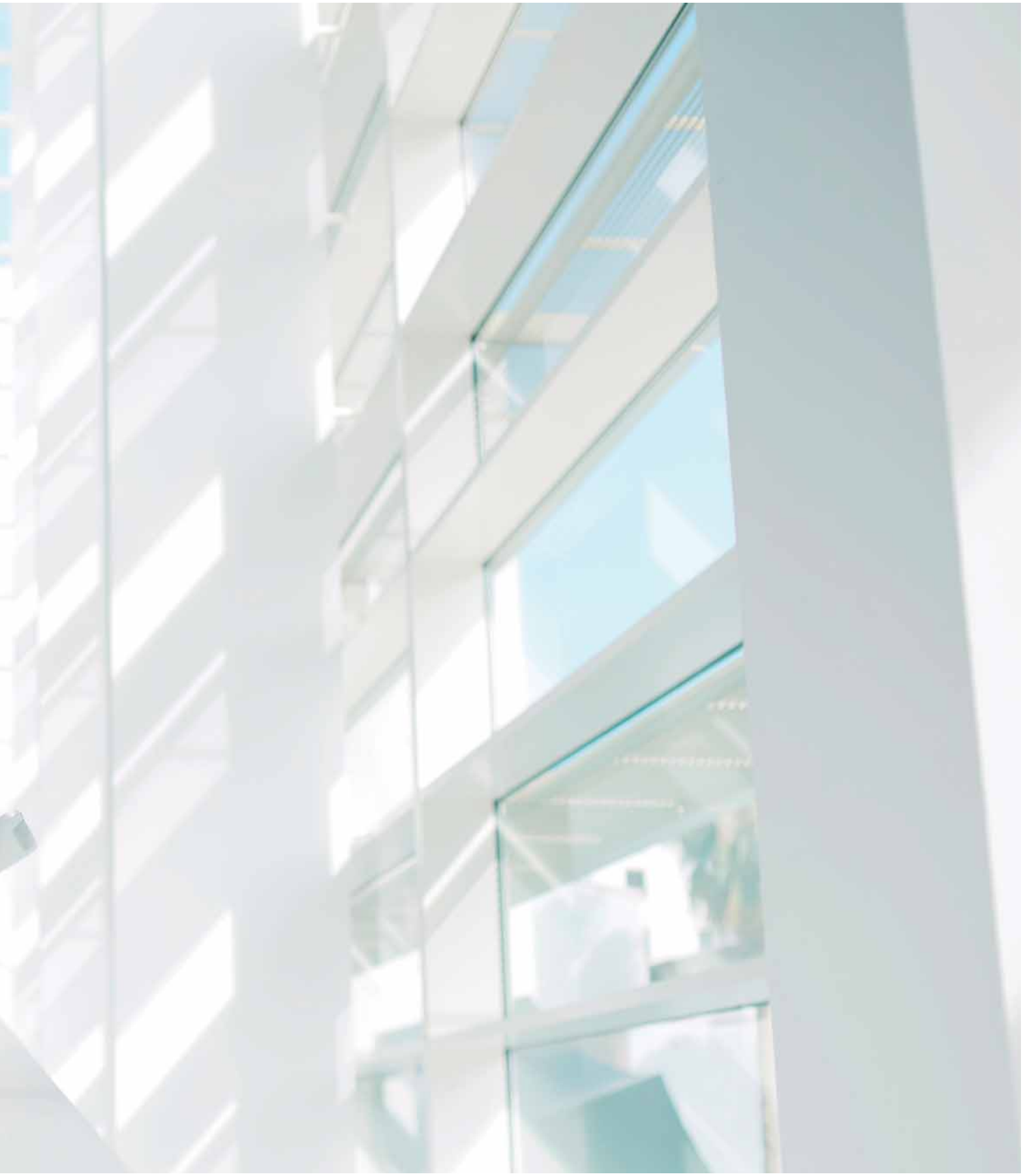




Interface Box

# NEW VRF SYSTEMS
# INDOOR UNITS





# ECOi AND ECO G SYSTEMS INDOOR UNITS RANGE

| Page | | 1,50kW | 2,20kW | 2,80kW | 3,00kW | 3,60kW | 4,00kW | 4,50kW |
|---|---|---|---|---|---|---|---|---|
| P. 340 | U2 Type 4 Way 90x90 Cassette | | S-22MU2E5A | S-28MU2E5A | | S-36MU2E5A | | S-45MU2E5A |
| P. 342 | Y2 Type 4 Way 60x60 Cassette | S-15MY2E5A | S-22MY2E5A | S-28MY2E5A | | S-36MY2E5A | | S-45MY2E5A |
| P. 343 | L1 Type 2 Way Cassette | | S-22ML1E5 | S-28ML1E5 | | S-36ML1E5 | | S-45ML1E5 |
| P. 344 | D1 Type 1 Way Cassette | | | S-28MD1E5 | | S-36MD1E5 | | S-45MD1E5 |
| P. 345 | F2 Type Variable Static Pressure Hide Away | S-15MF2E5A | S-22MF2E5A | S-28MF2E5A | | S-36MF2E5A | | S-45MF2E5A |
| P. 346 | M1 Type Slim Variable Static Pressure Hide Away | S-15MM1E5A | S-22MM1E5A | S-28MM1E5A | | S-36MM1E5A | | S-45MM1E5A |
| P. 347 | E2 Type High Static Pressure Hide Away | | | | | | | |
| P. 348 | Heat Recovery with DX Coil | | | | PAW-500ZDX3N | | PAW-800ZDX3N | PAW-01KZDX3N |
| P. 349 | T2 Type Ceiling | | | | | S-36MT2E5A | | S-45MT2E5A |
| P. 350 | **NEW** G1 Type Floor Console | | S-22MG1E5 | S-28MG1E5 | | S-36MG1E5 | | S-45MG1E5 |
| P. 352 | K2 Type Wall Mounted | S-15MK2E5A | S-22MK2E5A | S-28MK2E5A | | S-36MK2E5A | | S-45MK2E5A |
| P. 353 | P1 Type Floor Standing | | S-22MP1E5 | S-28MP1E5 | | S-36MP1E5 | | S-45MP1E5 |
| P. 354 | R1 Type Concealed Floor Standing | | S-22MR1E5 | S-28MR1E5 | | S-36MR1E5 | | S-45MR1E5 |
| P. 355 | Hydrokit for ECOi, water at 45°C | | | | | | | |

| Page | | 16,00kW | 28,00kW | 56,00kW | 84,00kW | 112,00kW | 140,00kW | 168,00kW |
|---|---|---|---|---|---|---|---|---|
| P. 362 | AHU Connection Kit 16, 28 and 56kW | PAW-160MAH2/M/L | PAW-280MAH2/M/L | PAW-560MAH2/M/L | PAW-280MAH2/M/L + PAW-560MAH2/M/L | PAW-560MAH2/M/L x2 | PAW-280MAH2/M/L + PAW-560MAH2/M/L x2 | PAW-560MAH2/M/L x3 |

| Page | | 250m³/h | 350m³/h | 500m³/h | 800m³/h | 1000m³/h |
|---|---|---|---|---|---|---|
| P. 366 | Energy Recovery Ventilation | FY-250ZDY8R | FY-350ZDY8R | FY-500ZDY8R | FY-800ZDY8R | FY-01KZDY8R |

| 5,60kW | 6,00kW | 7,30kW | 9,00kW | 10,60kW | 14,00kW | 16,00kW | 22,40kW | 28,00kW |
|---|---|---|---|---|---|---|---|---|
|  S-56MU2E5A |  S-60MU2E5A |  S-73MU2E5A |  S-90MU2E5A |  S-106MU2E5A |  S-140MU2E5A |  S-160MU2E5A | | |
|  S-56MY2E5A | | | | | | | | |
|  S- 56ML1E5 | |  S-73ML1E5 | | | | | | |
|  S-56MD1E5 | |  S-73MD1E5 | | | | | | |
|  S-56MF2E5A |  S-60MF2E5A |  S-73MF2E5A |  S-90MF2E5A |  S-106MF2E5A |  S-140MF2E5A |  S-160MF2E5A | | |
|  S-56MM1E5A | | | | | | | | |
| | | | | | | |  S-224ME2E5 |  S-280ME2E5 |
|  S-56MT2E5A | |  S-73MT2E5A | |  S-106MT2E5A |  S-140MT2E5A | | | |
|  S-56MG1E5 | | | | | | | | |
|  S-56MK2E5A | |  S-73MK2E5A | |  S-106MK2E5A | | | | |
|  S-56MP1E5 | |  S-71MP1E5 | | | | | | |
|  S-56MR1E5 | |  S-71MR1E5 | | | | | | |
| | | |  S-80MW1E5 | |  S-125MW1E5 | | | |

| Page | | 7,90kW | 12,00kW | 15,00kW | 19,00kW | 23,60kW | 27,60kW |
|---|---|---|---|---|---|---|---|
| P. 364 | **NEW** Air Curtain LS type with DX Coil |  PAW-10EAIRC-LS |  PAW-15EAIRC-LS |  PAW-20EAIRC-LS |  PAW-25EAIRC-LS | | |
| P. 364 | **NEW** Air Curtain HS type with DX Coil | |  PAW-10EAIRC-HS |  PAW-15EAIRC-HS | |  PAW-20EAIRC-HS |  PAW-25EAIRC-HS |

# 4 WAY 90x90 CASSETTE WITH NANOE™ X

**Large capacity VRF. Trusted power and high efficiency. These Cassettes offer upgraded Econavi and nanoe™ X purification systems as accessories for making application space more comfortable, healthy and efficient.**

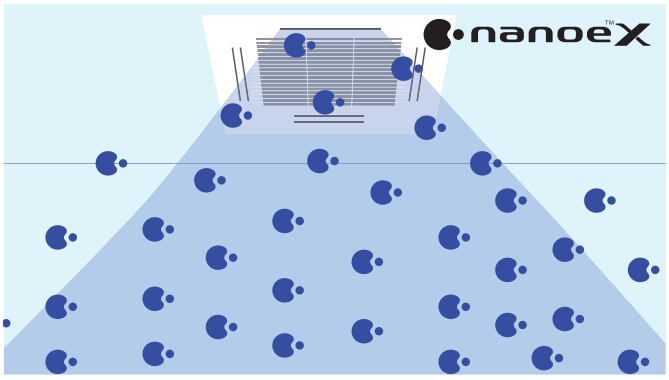
Thanks to advances in design and technology such as the new high performance turbo fan which is more efficient and silent, and nanoe™ X air purification, for total healthy and the floor temperature & humidity sensor to more control, the new U2 Panasonic 4 Way 90x90 Cassette offers healthy and comfort.

## Always fresh and clean air with nanoe™ X

The nanoe™ X is available with the advanced technology of room air conditioning.

- Purifying operation can work simultaneously or independently from heating/cooling operation.
- Inhibiting certain viruses, bacteria & deodorisation (bacteria, fungus, pollen, virus and cigarette smoke). OH radicals in nanoe™ X pull bacteria's hydrogen out to effectively deodorise and sterilise
- Clean inside by nanoe™ X + Dry control: inside of indoor unit can be cleaned by short operation circuit with nanoe™ X and drying

CZ-RTC5B and optional accessory CZ-CNEXU1 are required to use nanoe™ X function.

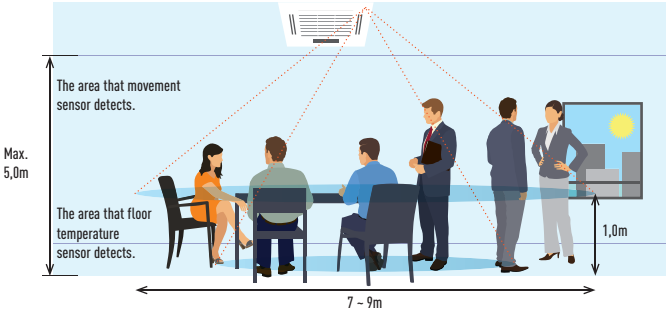



## Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste of energy by optimising air conditioner operation.

### Advanced Econavi functions.

2 sensors (movement and floor temperature) can find waste of energy and control effectively. Floor temperature can detect up to 5m ceiling height.




**Econavi exclusive panel. Optional (CZ-KPU3AW)**



**Floor temperature sensor.**
This sensor detects average floor temperature and operates circulation if floor temperature is low.

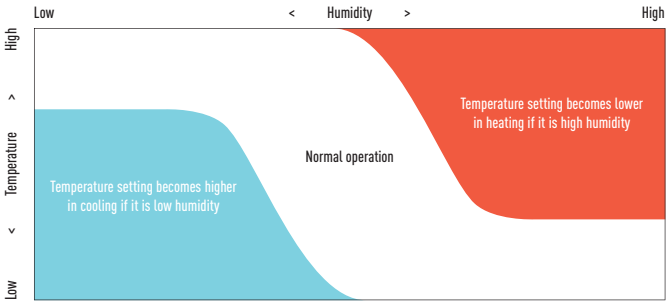
**Movement sensor.**
This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5B is required.

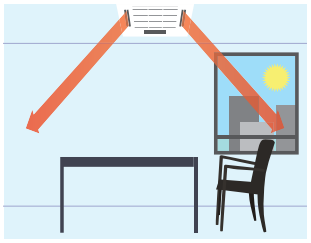
### Humidity sensor.

New Humidity sensor has air suction function, and realises comfort and energy saving based on temperature and humidity.

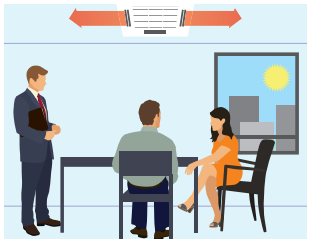



### Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.



Circulation by Detecting no movement (10min.)



Indirect air flow by detecting movement

# U2 Type 4 Way 90x90 Cassette

## The U2 Panasonic 4 Way 90x90 Cassettes with new panel design and 2 types of body with height difference





**CZ-KPU3W**
Standard panel.



**CZ-KPU3AW**
Optional Econavi panel
(CZ-RTC5B is required).





**CZ-CNEXU1**
Optional nanoe™ X kit
(CZ-RTC5B is required).

## Technical focus

- High performance turbo fan, new path system for heat exchanger
- Lower noise in slow fan operation
- Ceiling height up to 5,0m
- Industry top light weight, easy piping
- Econavi: Floor temperature and humidity sensor added. Activity amount detection and new circulator
- nanoe™ X: The first 10x for CAC (10 times more purification power). Inside cleaning by 10x nanoe™ X + dry control
- Powerful drain pump gives 850mm lift
- Fresh air knockout
- Branch duct connection
- Optional air-intake plenum CZ-FDU2



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-RWS3 + CZ-RWRU3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-22MU2E5A | S-28MU2E5A | S-36MU2E5A | S-45MU2E5A | S-56MU2E5A | S-60MU2E5A | S-73MU2E5A | S-90MU2E5A | S-106MU2E5A | S-140MU2E5A | S-160MU2E5A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 6,00 | 7,30 | 9,00 | 10,60 | 14,00 | 16,00 |
| Input power cooling | | W | 20,00 | 20,00 | 20,00 | 20,00 | 25,00 | 35,00 | 40,00 | 40,00 | 95,00 | 100,00 | 115,00 |
| Current (cool) | | A | 0,19 | 0,19 | 0,19 | 0,19 | 0,22 | 0,31 | 0,33 | 0,36 | 0,71 | 0,76 | 0,89 |
| Heating capacity | | kW | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 7,10 | 8,00 | 10,00 | 11,40 | 16,00 | 18,00 |
| Input power heating | | W | 20,00 | 20,00 | 20,00 | 20,00 | 25,00 | 35,00 | 40,00 | 40,00 | 85,00 | 100,00 | 105,00 |
| Current (heat) | | A | 0,17 | 0,17 | 0,17 | 0,17 | 0,20 | 0,30 | 0,32 | 0,34 | 0,65 | 0,73 | 0,80 |
| Fan type | | | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan | Turbo fan |
| Air volume | Hi/Med/Lo | $m^3$/min | 14,50/13,00/11,50 | 14,50/13,00/11,50 | 14,50/13,00/11,50 | 15,50/13,00/11,50 | 17,00/13,50/11,50 | 21,00/16,00/13,00 | 22,50/16,00/13,00 | 23,00/18,50/14,00 | 35,00/26,00/20,00 | 36,00/27,00/21,50 | 37,00/29,00/25,00 |
| Sound pressure / power | Hi/Med/Lo | dB(A) / dB | 30/29/28 45/44/43 | 30/29/28 45/44/43 | 30/29/28 45/44/43 | 31/29/28 46/44/43 | 33/30/28 48/45/43 | 36/32/29 51/47/44 | 37/32/29 52/47/44 | 38/35/32 53/50/47 | 44/38/34 59/53/49 | 45/39/35 60/54/50 | 46/40/38 61/55/53 |
| Dimension (H x W x D) | Indoor (Panel) | mm | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 256 x 840 x 840 (33,5 x 950 x 950) | 319 x 840 x 840 (33,5 x 950 x 950) | 319 x 840 x 840 (33,5 x 950 x 950) | 319 x 840 x 840 (33,5 x 950 x 950) |
| | | mm | | | | | | | | | | | |
| Net weight (Panel) | | kg | 21 (5) | 21 (5) | 21 (5) | 21 (5) | 21 (5) | 21 (5) | 21 (5) | 21 (5) | 25 (5) | 25 (5) | 25 (5) |
| Piping connections | Liquid | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |

## Panel design

Flat design, well-matched with interior, building.
Position of 4 air wings can be set individually.

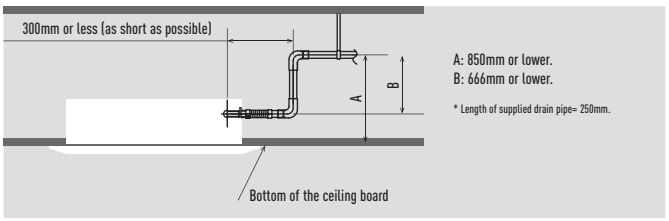
## 2 types of body with height difference (same as current ones)

25,6cm and 31,9cm.

Panasonic introduces a modern flat panel design to blend into any space. These Cassettes have been developed to satisfy today's customer needs such as high energy saving, comfort and healthier air.

## The drain pipe can be raised to a maximum height of 850mm from the bottom of the ceiling

Do not attempt to raise it higher than 850mm.
Doing so will result in water leakage.




28% ECONAVI | nanoeX | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL MILD DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI AND INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Y2 Type 4 Way 60x60 Cassette





**CZ-KPY3AW**
Panel 700 x 700mm.

**CZ-KPY3BW**
Panel 625 x 625mm.

## Designed to fit exactly into a 600 x 600mm ceiling grid without the need to alter the bar configuration

The Y2 is ideal for small commercial and retrofit applications. In addition, the improvements to efficiency make this one of the most advanced units in the industry.

## Technical focus

- Mini Cassette fits into a 600 x 600mm ceiling grid
- Fresh air distribution
- Multidirectional airflow
- Powerful drain pump gives 850mm lift
- Turbo fans and heat exchanger fins with improved design
- DC-Fan motors with variable speed, new heat exchangers, etc. ensure an efficient power consumption



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



**CZ-RWS3**
Optional Controller.
Infrared remote controller.

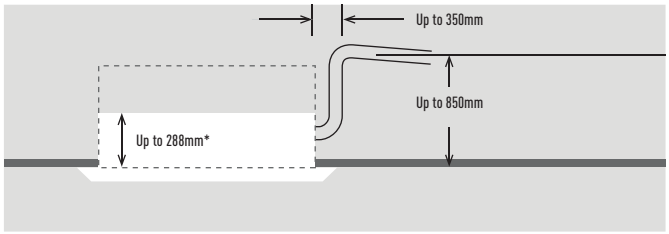


**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-15MY2E5A | S-22MY2E5A | S-28MY2E5A | S-36MY2E5A | S-45MY2E5A | S-56MY2E5A |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 1,50 | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 |
| Input power cooling | | W | 35,00 | 35,00 | 35,00 | 40,00 | 40,00 | 45,00 |
| Operating current cooling | | A | 0,30 | 0,30 | 0,30 | 0,30 | 0,32 | 0,35 |
| Heating capacity | | kW | 1,70 | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 |
| Input power heating | | W | 30,00 | 30,00 | 30,00 | 35,00 | 35,00 | 40,00 |
| Operating current heating | | A | 0,25 | 0,25 | 0,30 | 0,30 | 0,30 | 0,30 |
| Fan type | | | Centrifugal fan | Centrifugal fan | Centrifugal fan | Centrifugal fan | Centrifugal fan | Centrifugal fan |
| Air volume (Hi / Med / Lo) | Cool | m³/min | 8,90/8,20/5,60 | 9,10/8,20/5,60 | 9,30/8,40/5,60 | 9,70/8,70/6,00 | 10,00/9,30/8,20 | 10,40/9,80/8,50 |
| | Heat | m³/min | 9,10/8,40/5,60 | 9,30/8,40/5,60 | 9,60/8,70/5,60 | 9,90/9,10/6,00 | 10,30/9,60/8,20 | 11,10/9,80/8,70 |
| Sound pressure | Hi / Med / Lo | dB(A) | 34/31/25 | 35/31/25 | 35/31/25 | 36/32/26 | 38/34/28 | 40/37/34 |
| Sound power | Hi / Med / Lo | dB | 49/46/40 | 50/46/40 | 50/46/40 | 51/47/41 | 53/49/43 | 55/52/49 |
| Dimension (H x W x D) | Indoor | mm | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 | 288 x 583 x 583 |
| | Panel 3A | mm | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 | 31 x 700 x 700 |
| | Panel 3B | mm | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 | 31 x 625 x 625 |
| Net weight | | kg | 20,4 (18 + 2,4) | 20,4 (18 + 2,4) | 20,4 (18 + 2,4) | 20,4 (18 + 2,4) | 20,4 (18 + 2,4) | 20,4 (18 + 2,4) |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |

## A drain height of approximately 850mm from the ceiling surface

The drain height can be increased by approximately 350mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.
A lightweight unit at 18,4kg the unit is also very slim with a height of only 288mm, making installation possible even in narrow ceilings.




28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI AND INTERNET CONTROL: Optional.

# L1 Type 2 Way Cassette





**CZ-02KPL2**
Panel

**CZ-03KPL2**
Panel for S-73ML1E5).

## Slim, compact and lightweight units

Remarkable size and weight reductions have been achieved by improvement of the design around the fan, the weight of all models now being 30kg.

## Technical focus

- Airflow and distribution is automatically altered depending on the operational mode of the unit
- Drain up is possible up to 500mm from the drain port
- Simple maintenance

## Simple maintenance

The drain pan is equipped with site wiring and can be removed. The fan case has a split construction, and the fan motor can be removed easily when the lower case is removed.



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-RWS3 + CZ-RWRL3**
Optional Controller.
Infrared remote controller.

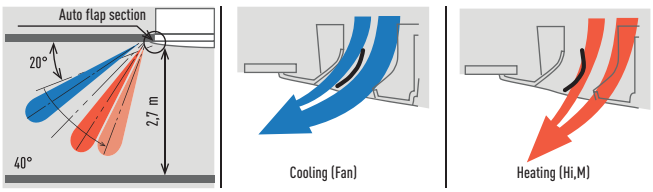


**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-22ML1E5 | S-28ML1E5 | S-36ML1E5 | S-45ML1E5 | S-56ML1E5 | S-73ML1E5 |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 7,30 |
| Input power cooling | | W | 90,00 | 92,00 | 93,00 | 97,00 | 97,00 | 145,00 |
| Operating current cooling | | A | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 | 0,65 |
| Heating capacity | | kW | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 8,00 |
| Input power heating | | W | 58,00 | 60,00 | 61,00 | 65,00 | 65,00 | 109,00 |
| Operating current heating | | A | 0,29 | 0,29 | 0,29 | 0,29 | 0,29 | 0,48 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | m³/min | 8,00 / 7,00 / 6,00 | 9,00 / 8,00 / 7,00 | 9,70 / 8,70 / 7,70 | 11,00 / 9,00 / 8,00 | 11,00 / 9,00 / 8,00 | 19,00 / 16,00 / 14,00 |
| Sound pressure | Hi / Med / Lo | dB(A) | 30 / 27 / 24 | 33 / 29 / 26 | 34 / 31 / 28 | 35 / 33 / 29 | 35 / 33 / 29 | 38 / 35 / 33 |
| Dimension (H x W x D) | Indoor | mm | 350 x 840 x 600 | 350 x 840 x 600 | 350 x 840 x 600 | 350 x 840 x 600 | 350 x 840 x 600 | 350 x 1140 x 600 |
| | Panel | mm | 8 x 1060 x 680 | 8 x 1060 x 680 | 8 x 1060 x 680 | 8 x 1060 x 680 | 8 x 1060 x 680 | 8 x 1360 x 680 |
| Net weight (Panel) | | kg | 23 (5,5) | 23 (5,5) | 23 (5,5) | 23 (5,5) | 23 (5,5) | 30 (9) |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |

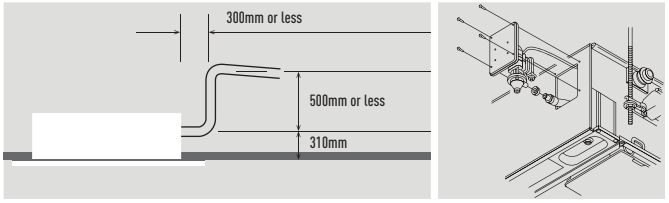
## Auto flap control

Airflow and distribution is automatically altered depending on the operational mode of the unit.




## Drain up is possible up to 500mm from the drain port

Maintenance of the drain pump is possible from two sides, from the left side (piping side) and from the inside of the unit.




SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# D1 Type 1 Way Cassette

Designed for installation within the ceiling void, the D1 range of slimline 1 way blow Cassettes feature powerful yet quiet fans for up to 4,2m.



**CZ-KPD2**
Panel

## Technical focus

- Ultra-Slim
- Suitable for standard and high ceilings
- Built-in drain pump provides 590mm lift
- Easy to install and maintain
- Hanging height can be easily adjusted
- Uses a DC-Fan motor to improve energy-efficiency



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



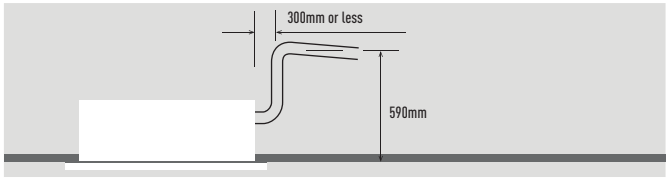
**CZ-RWS3 + CZ-RWRD3**
Optional Controller.
Infrared remote controller.



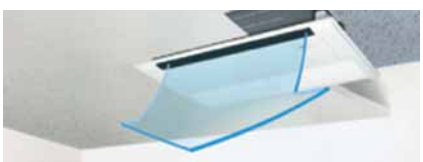
**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-28MD1E5 | S-36MD1E5 | S-45MD1E5 | S-56MD1E5 | S-73MD1E5 |
|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,80 | 3,60 | 4,50 | 5,60 | 7,30 |
| Input power cooling | | W | 51,00 | 51,00 | 51,00 | 60,00 | 87,00 |
| Operating current cooling | | A | 0,39 | 0,39 | 0,39 | 0,46 | 0,70 |
| Heating capacity | | kW | 3,20 | 4,20 | 5,00 | 6,30 | 8,00 |
| Input power heating | | W | 40,00 | 40,00 | 40,00 | 48,00 | 76,00 |
| Operating current heating | | A | 0,35 | 0,35 | 0,35 | 0,41 | 0,65 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | $m^3$/min | 12,00 / 10,00 / 9,00 | 12,00 / 10,00 / 9,00 | 12,00 / 11,00 / 10,00 | 13,00 / 11,50 / 10,00 | 18,00 / 15,00 / 13,00 |
| Sound pressure | Hi / Med / Lo | dB(A) | 36 / 34 / 33 | 36 / 34 / 33 | 36 / 35 / 34 | 38 / 36 / 34 | 45 / 40 / 36 |
| Dimension (H x W x D) | Indoor | mm | 200 x 1000 x 710 | 200 x 1000 x 710 | 200 x 1000 x 710 | 200 x 1000 x 710 | 200 x 1000 x 710 |
| | Panel | mm | 20 x 1230 x 800 | 20 x 1230 x 800 | 20 x 1230 x 800 | 20 x 1230 x 800 | 20 x 1230 x 800 |
| Net weight (Panel) | | kg | 21 (5,5) | 21 (5,5) | 21 (5,5) | 21 (5,5) | 22 (5,5) |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |

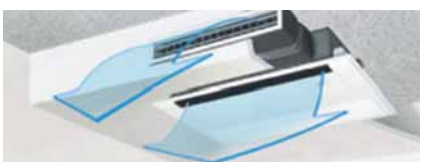
## Drain height




## With 3 types of air-blow systems, the units can be used in various ways



**1. One-direction "down-blow" system.**
Powerful one-direction "down-blow" system reaches the floor even from high ceilings (up to 4,2m).



**2. Two-direction ceiling-mounted system.**
"Down-blow" and "front-blow" systems are combined in a ceiling-mounted unit to blow air over a wide area.



**3. One-direction ceiling-mounted system.**
This powerful ceiling-mounted "front-blow" system efficiently air-conditions the space in front of the unit.
(Additional accessories required).

SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

# F2 Type Variable Static Pressure Hide Away



## The F2 type is designed specifically for applications requiring fixed square ducting

The internal filter is equipped as standard.

## Technical focus

- Industry-leading low sound levels from 25dB(A)
- Built-in drain pump provides 785mm lift
- Easy to install and maintain
- Air OFF sensor avoids cold air dumping
- Configurable air temperature control

| Air inlet Plenum | Dampers diameters | Model |
|---|---|---|
| 15, 22, 28, 36, 45 & 56 | 2 x Ø200 | CZ-DUMPA56MF2 |
| 60, 73 & 90 | 3 x Ø200 | CZ-DUMPA90MF2 |
| 106, 140 & 160 | 4 x Ø200 | CZ-DUMPA160MF2 |



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



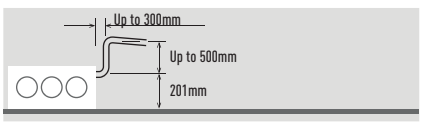
**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-15MF2E5A | S-22MF2E5A | S-28MF2E5A | S-36MF2E5A | S-45MF2E5A | S-56MF2E5A | S-60MF2E5A | S-73MF2E5A | S-90MF2E5A | S-106MF2E5A | S-140MF2E5A | S-160MF2E5A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 1,50 | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 6,00 | 7,30 | 9,00 | 10,60 | 14,00 | 16,00 |
| Input power cooling | | W | 70,00 | 70,00 | 70,00 | 70,00 | 70,00 | 100,00 | 120,00 | 120,00 | 135,00 | 195,00 | 215,00 | 225,00 |
| Current (cool) | | A | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,74 | 0,89 | 0,89 | 0,97 | 1,30 | 1,44 | 1,50 |
| Heating capacity | | kW | 1,70 | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 7,10 | 8,00 | 10,00 | 11,40 | 16,00 | 18,00 |
| Input power heating | | W | 70,00 | 70,00 | 70,00 | 70,00 | 70,00 | 100,00 | 120,00 | 120,00 | 135,00 | 200,00 | 210,00 | 225,00 |
| Current (heat) | | A | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,74 | 0,89 | 0,89 | 0,97 | 1,34 | 1,42 | 1,50 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume [1] | Hi/Med/Lo | m³/min | 14,00/13,00/9,00 | 14,00/13,00/9,00 | 14,00/13,00/9,00 | 14,00/13,00/9,00 | 14,00/13,00/10,00 | 16,00/15,00/12,00 | 21,00/19,00/15,00 | 21,00/19,00/15,00 | 25,00/23,00/19,00 | 32,00/26,00/21,00 | 34,00/29,00/23,00 | 36,00/32,00/25,00 |
| External static pressure | | Pa | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 70 (10-150) | 100 (10-150) | 100 (10-150) | 100 (10-150) |
| Sound pressure / power | Hi/Med/Lo | dB(A) / dB | 33/29/22 55/51/44 | 33/29/22 55/51/44 | 33/29/22 55/51/44 | 33/29/22 55/51/44 | 34/32/25 56/54/47 | 34/32/25 56/54/47 | 35/32/26 57/54/48 | 35/32/26 57/54/48 | 37/34/28 59/56/50 | 38/34/31 60/56/53 | 39/35/32 61/57/54 | 40/36/33 62/58/55 |
| Dimension / Net weight | H x W x D | mm / kg | 290 x 800 x 700 / 29 | 290 x 800 x 700 / 29 | 290 x 800 x 700 / 29 | 290 x 800 x 700 / 29 | 290 x 800 x 700 / 29 | 290 x 800 x 700 / 29 | 290 x 1000 x 700 / 34 | 290 x 1000 x 700 / 34 | 290 x 1000 x 700 / 34 | 290 x 1400 x 700 / 46 | 290 x 1400 x 700 / 46 | 290 x 1400 x 700 / 46 |
| Piping connections | Liquid | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |

1) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

## More powerful drain pump

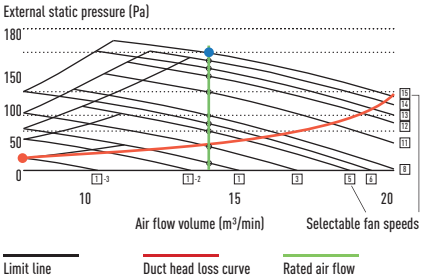
Using a high-lift drain pump, drain piping can be elevated up to 785mm from the base of the unit.




## F2 Advantages

Automatic learning function for the required static pressure, to be activated easily by the standard wired timer remote controller.
Possible to increase the sensible cooling capacity by adjusting the air volume flow in order to almost completely eliminate latent losses. This is possible due to the outstanding big heat exchanger surface in combination with increasing the air volume flow by a manual selection of higher fan speed curves through the standard wired remote controller when commissioning the system together with the default active off-coil temperature control and the room load based variable evaporation temperature control.

## Diagram 1 S-22MF2E5A




28% ECONAVI | FILTER INCLUDED | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# M1 Type Slim Variable Static Pressure Hide Away Concealed Duct



## The ultra slim M1 type is one of the leading products of its type in the industry

With a depth of only 200mm it provides greater flexibility and can be used in far more applications. In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.

## Technical focus

- Ultra-slim profile: 200mm for all models
- DC-Fan motor greatly reduces power consumption
- Ideal for hotel application with very narrow false ceilings
- Easy maintenance and service by external electrical box
- 40Pa static pressure enables ductwork to be fitted.
- Includes drain pump



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

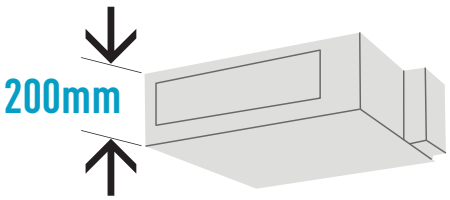
| Model | | | S-15MM1E5A | S-22MM1E5A | S-28MM1E5A | S-36MM1E5A | S-45MM1E5A | S-56MM1E5A |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 1,50 | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 |
| Input power cooling | | W | 36,00 | 36,00 | 40,00 | 42,00 | 49,00 | 64,00 |
| Operating current cooling | | A | 0,26 | 0,26 | 0,30 | 0,31 | 0,37 | 0,48 |
| Heating capacity | | kW | 1,70 | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 |
| Input power heating | | W | 26,00 | 26,00 | 30,00 | 32,00 | 39,00 | 54,00 |
| Operating current heating | | A | 0,23 | 0,23 | 0,27 | 0,28 | 0,34 | 0,45 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | m³/min | 8,00/7,00/6,00 | 8,00/7,00/6,00 | 8,50/7,50/6,50 | 9,00/8,00/7,00 | 10,50/9,50/8,00 | 12,50/11,50/10,00 |
| External static pressure | | Pa | 10 (30) | 10 (30) | 15 (30) | 15 (40) | 15 (40) | 15 (40) |
| Sound pressure | Hi / Med / Lo [1] | dB(A) | 28/27/25 (30/29/27) | 28/27/25 (30/29/27) | 30/29/27 (32/31/29) | 32/30/28 (34/32/30) | 34/32/30 (36/34/32) | 35/33/31 (37/35/32) |
| Sound power | Hi / Med / Lo | dB | 43/42/40 | 43/42/40 | 45/44/42 | 47/45/43 | 49/47/45 | 50/48/46 |
| Dimension | H x W x D | mm | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 | 200 x 750 x 640 |
| Net weight | | kg | 19 | 19 | 19 | 19 | 19 | 19 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |

1) By DIP switches or by RC setting.

## Air Outlet & Inlet Plenum

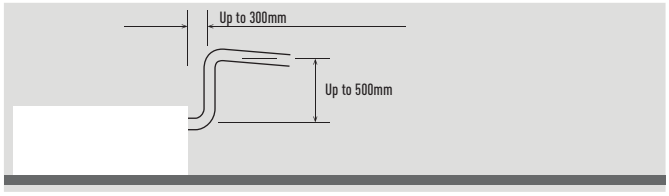
| S-...MM1E5A | Diameters | Air Outlet Plenum | Diameters | Air Inlet Plenum |
|---|---|---|---|---|
| 22 , 28 & 36 | 2 x Ø200 | CZ-DUMPA22MMS2 | 2 x Ø200 | CZ-DUMPA22MMR2 |
| 45 & 56 | 3 x Ø160 | CZ-DUMPA45MMS3 | 2 x Ø200 | CZ-DUMPA22MMR3 |

## Ultra-slim profile for all models




## Drain pump with increased power!

By adoption of a high-lift drain pump, the drain piping rise height can be increased to 785mm from the lower surface of the body.




28% ECONAVI | FILTER INCLUDED | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

# E2 Type High Static Pressure Hide Away

High pressure duct and 100% Fresh air duct function. The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures and reduces energy consumption.



## Technical focus

- No need of rap valve
- 100% Fresh air duct function
- DC-Fan motor for more savings
- Complete flexibility for ductwork design
- Can be located into a weatherproof housing for external sitting
- Air OFF sensor avoids cold air dumping
- Configurable air temperature control



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



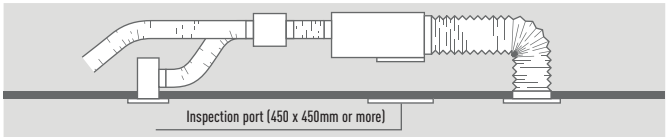
**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | 100% Fresh air duct function (by using Kit for 100% Fresh air) | | | | High pressure duct | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | S-224ME2E5 | | S-280ME2E5 | | S-224ME2E5 | | S-280ME2E5 | |
| | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 22,40 | 21,20 | 28,00 | 26,50 | 22,40 | 25,00 | 28,00 | 31,50 |
| Input power | | W | 290,00 | 290,00 | 350,00 | 350,00 | 440,00 | 440,00 | 715,00 | 715,00 |
| Operating current | | A | 1,85 | 1,85 | 2,20 | 2,20 | 2,45 | 2,45 | 3,95 | 3,95 |
| Air volume | Hi / Med / Lo | m³/min | 28,30 / — / — | | 35,00 / — / — | | 56,00 / 51,00 / 44,00 | | 72,00 / 63,00 / 53,00 | |
| External static pressure | | Pa | 200 | | 200 | | 140 (60 - 270) [1] | | 140 (72 - 270) [1] | |
| Sound pressure [2] | Hi / Med / Lo | dB(A) | 43 / — / — | | 44 / — / — | | 45 / 43 / 41 | | 49 / 47 / 43 | |
| Sound power | Hi / Med / Lo | dB | 75 / — / — | | 76 / — / — | | 77 / 75 / 73 | | 81 / 79 / 75 | |
| Dimension | H x W x D | mm | 479 x 1453 x 1205 | | 479 x 1453 x 1205 | | 479 x 1453 x 1205 | | 479 x 1453 x 1205 | |
| Net weight | | kg | 102 | | 106 | | 102 | | 106 | |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | | 3/8 (9,52) | | 3/8 (9,52) | | 3/8 (9,52) | |
| | Gas pipe | Inch (mm) | 3/4 (19,05) | | 7/8 (22,22) | | 3/4 (19,05) | | 7/8 (22,22) | |

Rating Conditions for 100% Fresh air duct function: Cooling Outdoor 33°C DB / 28°C WB. Heating Outdoor 0°C DB / -2,9°C WB. 1) Available to select the setting by initial setup. 2) Values with 140Pa setting. * No filter included. No compatible with 3-Pipe ECO G GF3.

## System example

An inspection port (450 x 450mm or more) is required at the lower side of the indoor unit body (field supply).




## 100% Fresh air duct function

The E2 duct with 100% fresh air duct function have exceptional discharge temperature.

| | Discharge Range | | |
|---|---|---|---|
| | Min | Max | Default |
| Cooling | 15°C | 24°C | 18°C |
| Heating | 17°C | 45°C | 40°C |

## Plenums

| Air Outlet Plenum (suitable for rigid + flexible duct) | | |
|---|---|---|
| | Number of exits with diameters | Model |
| S-224ME1E5A / S-280ME1E5 | 1 x 500mm | CZ-TREMIESPW706 |

## Kit for 100% Fresh air function

| For 2-Pipe systems | | For 3-Pipe systems | |
|---|---|---|---|
| 2x CZ-P160RVK2 | Rap valve kit | 2x CZ-P160HR3 | 3-Pipe valve kit |
| 2x CZ-CAPE2 | 3-Pipe control PCB | 2x CZ-CAPE2 | 3-Pipe control PCB |
| CZ-P680BK2 | Distribution Joint kit | CZ-P680BH2 | Distribution Joint kit |
| 1x Remote control | | 1x Remote control | |

28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Heat Recovery With DX Coil





**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.

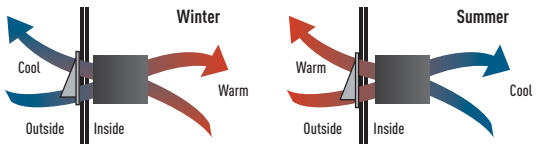
## Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free-cooling when convenient.

- Galvanized steel self-supporting panels, internally and externally insulated
- High efficiency enthalpic heat recover, static cross flow type, made by membrane with high moisture permeability, good air tightness, excellent tear resistance, and aging resistance, it is structures with flat plates and corrugated plates. Total heat exchange with temperature efficiency up to 76% and enthalpy efficiency up to 67%, also at high level during summer season
- ISO16890 ePm$_{2,5}$ 95% (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50% (G3 EN 779) pre-filter ON fresh air, COARSE 50% filter on return air intake
- Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- Low consumption, high efficiency & low noise direct driven fans
- Supply section complete with DX Coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream airflow
- Built-in electric box equipped with PCB to control internal fan speed and to interconnect outdoor/indoor units
- Duct connection by circular plastic collars

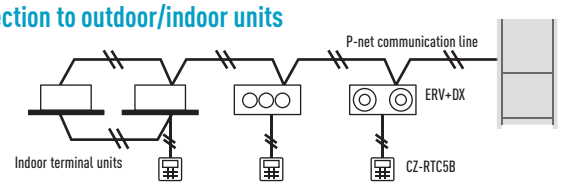
| Model | | | PAW-500ZDX3N | | PAW-800ZDX3N | | PAW-01KZDX3N | |
|---|---|---|---|---|---|---|---|---|
| Power source | Voltage | V | 230 | | 230 | | 230 | |
| | Phase | | Single Phase | | Single Phase | | Single Phase | |
| | Frequency | Hz | 50 | | 50 | | 50 | |
| Air volume | | m³/min | 8,33 | | 13,33 | | 16,66 | |
| External static pressure [1] | | Pa | 90 | | 120 | | 115 | |
| Maximum current | Total full load | A | 0,6 | | 1,4 | | 2,1 | |
| Input power | | W | 150 | | 320 | | 390 | |
| Sound pressure [2] | | dB(A) | 39 | | 42 | | 43 | |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | | 1/4 (6,35) | | 1/4 (6,35) | |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | | 1/2 (12,70) | | 1/2 (12,70) | |
| **Heat recovery** | | | **Cooling** | **Heating** | **Cooling** | **Heating** | **Cooling** | **Heating** |
| Temperature efficiency | | % | 76 | 76 | 76 | 76 | 76 | 76 |
| Enthalpy efficiency | | % | 63 | 67 | 63 | 65 | 60 | 62 |
| Saved power summer mode or winter mode* | | kW | 1,70 | 4,30 (4,80) | 2,50 | 6,50 (7,30) | 3,20 | 8,20 (9,00) |
| **DX Coil** | | | | | | | | |
| Total / Sensible capacity | | kW | 3,00 / 2,10 | 2,50 / 2,70 | 5,10 / 3,50 | 4,40 / 4,80 | 5,80 / 4,10 | 5,20 / 6,70 |
| Off temperature | | °C | 15,9 | 28,0 (27,3) | 15,5 | 29,6 (29,0) | 16,2 | 28,5 (27,8) |
| Off relative humidity | | % | 90 | 16 (15) | 90 | 14 (13) | 89 | 15 (14) |

Nominal summer conditions: Outside air: 32°C DB, RH 50%. Ambient air: 26°C DB, RH 50%. Nominal winter conditions: Outside air: -5°C DB, RH 80%. Ambient air: 20°C DB, RH 50%. Cooling mode air inlet condition: 28,5°C DB, RH 50%; evaporating temperature 7°C. Heating mode air inlet condition: 13°C DB, RH 40% (11°C DB, RH 45%); condensating temperature 40°C. DB: Dry Bulb; RH: Relative Humidity.
1) Referred to the nominal air flow after filter and plate heat exchanger. 2) Sound pressure level calculated at 1m far from: ducted supply exhaust air ducted return - first air intake / service side, at normal condition. * Tentative data.

## Balanced ventilation

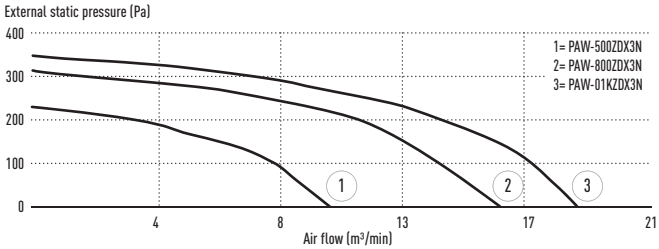



## Interconnection to outdoor/indoor units




## Characteristic curves

The following curves show the unit external static pressure at maximum fan speed for each model.




SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

# T2 Type Ceiling



## The T2 Type Ceiling mounted units feature a DC-Fan motor for increased efficiency and reduced operating sound levels

All the units are the same height and depth for a uniform appearance in mixed installations and feature a fresh air knockout for improved air quality.

## Technical focus

- Low sound levels
- New design, all units just 235mm high
- Large and wide air distribution
- Easy to install and maintain
- Fresh air knockout



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



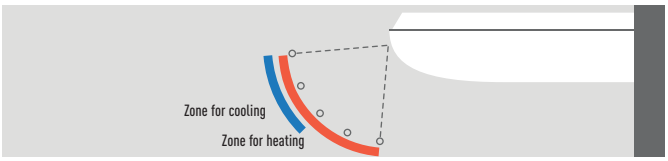
**CZ-RWS3 + CZ-RWRT3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

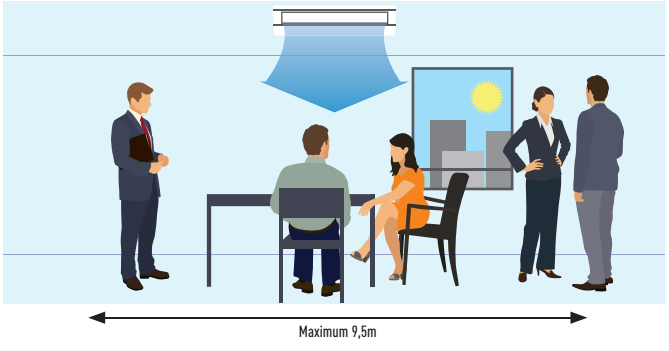
| Model | | | S-36MT2E5A | S-45MT2E5A | S-56MT2E5A | S-73MT2E5A | S-106MT2E5A | S-140MT2E5A |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 3,60 | 4,50 | 5,60 | 7,30 | 10,60 | 14,00 |
| Input power cooling | | W | 35,00 | 40,00 | 40,00 | 55,00 | 80,00 | 100,00 |
| Operating current cooling | | A | 0,36 | 0,38 | 0,38 | 0,44 | 0,67 | 0,79 |
| Heating capacity | | kW | 4,20 | 5,00 | 6,30 | 8,00 | 11,40 | 16,00 |
| Input power heating | | W | 35,00 | 40,00 | 40,00 | 55,00 | 80,00 | 100,00 |
| Operating current heating | | A | 0,36 | 0,38 | 0,38 | 0,44 | 0,67 | 0,79 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | m³/min | 14,00 / 12,00 / 10,50 | 15,00 / 12,50 / 10,50 | 15,00 / 12,50 / 10,50 | 21,00 / 18,00 / 15,50 | 30,00 / 25,00 / 23,00 | 32,00 / 28,00 / 24,00 |
| Sound pressure | Hi / Med / Lo | dB(A) | 36 / 32 / 30 | 37 / 33 / 30 | 37 / 33 / 30 | 39 / 35 / 33 | 42 / 37 / 36 | 46 / 40 / 37 |
| Sound power | Hi / Med / Lo | dB | 54 / 50 / 48 | 55 / 51 / 48 | 55 / 51 / 48 | 57 / 53 / 51 | 60 / 55 / 54 | 62 / 58 / 55 |
| Dimension | H x W x D | mm | 235 x 960 x 690 | 235 x 960 x 690 | 235 x 960 x 690 | 235 x 1275 x 690 | 235 x 1590 x 690 | 235 x 1590 x 690 |
| Net weight | | kg | 27 | 27 | 27 | 33 | 40 | 40 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) | 5/8 (15,88) |

## Air distribution is altered depending on the operational mode




## Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5m. This is ideal for wide rooms. The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.




28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# NEW VRF FLOOR CONSOLE

## 1 Stylish and simple

- Clean and modern European design with slim depth
- Modern matt white color panel
- Washable air filter

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.




**Dimension:**
W x H x D = 750 x 600 x 207mm

**Weight:**
14kg

**High end residential.**



**Cafe / Restaurant.**

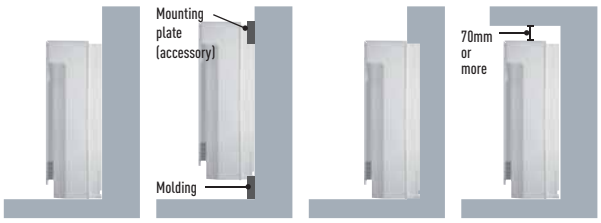


## 2 Flexible easy installation

Four different mounting styles possible:

- Exposed (floor or wall)
- Semi-recessed
- Recessed

**Flexible installation with 4 different options.**




**Floor Installation** | **Wall Installation** | **Semi-recessed** | **Recessed**

The compact unit can be installed within a limited space, such as under a window. Thus, it is a perfect solution to replace an existing boiler system radiator.





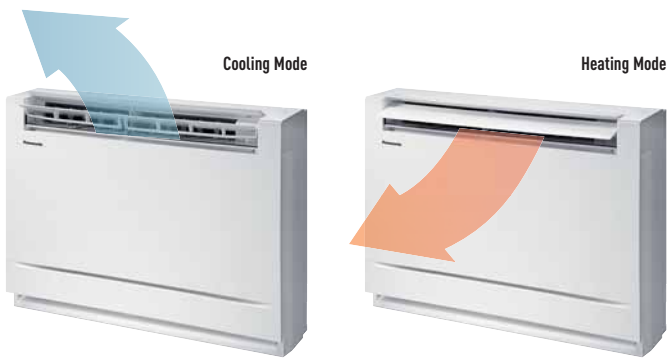
## 3 Functions for comfort

- Double Air Flow direction to maximize comfort
- Self-cleaning function
- Compatible with New Commercial WLAN Adaptor for cloud control

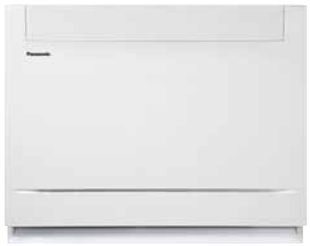
### Self-cleaning function.

- Self cleaning function can be pre-scheduled with remote controller, up to a maximum of 90 minutes following cooling/dry operation
- Air flow will not blow directly at occupants during self-cleaning

### Double Air Flow direction.



# New G1 Type Floor Console



NEW 2019

## The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building

Compact and versatile, this system is capable of being installed in an area with limited space.
It is a perfect solution for retrofit, replacing existing radiator panels.

## Technical focus

- Clean and stylish design with slim depth
- Modern matt white color panel
- Flexible and easy installation
- Washable air filter
- Quiet operation
- Dry mode to reduce humidity in rooms
- New Cloud Control "Comfort Cloud" compatible



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



**CZ-RWS3**
Optional Controller.
Infrared remote controller.

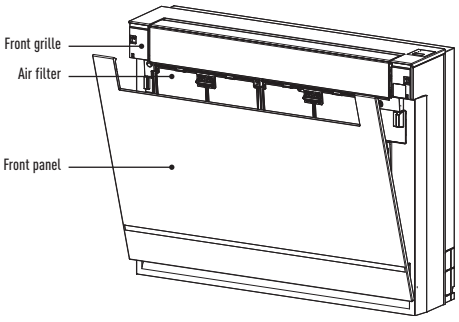
| Model | | | S-22MG1E5A | S-28MG1E5A | S-36MG1E5A | S-45MG1E5A | S-56MG1E5A |
|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 |
| Input power cooling | | W | 18,00 | 18,00 | 20,00 | 26,00 | 29,00 |
| Operating current cooling | | A | 0,18 | 0,18 | 0,21 | 0,23 | 0,25 |
| Heating capacity | | kW | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 |
| Input power heating | | W | 19,00 | 19,00 | 21,00 | 27,00 | 30,00 |
| Operating current heating | | A | 0,18 | 0,18 | 0,22 | 0,24 | 0,26 |
| Fan type | | | Cross flow | Cross flow | Cross flow | Cross flow | Cross flow |
| Air volume | Cool (Hi / Med / Lo) | m³/min | 9,20 / 7,50 / 6,00 | 9,20 / 7,50 / 6,00 | 9,70 / 8,20 / 6,00 | 10,50 / 9,00 / 6,50 | 12,00 / 9,50 / 6,50 |
| | Heat (Hi / Med / Lo) | m³/min | 9,70 / 8,00 / 6,50 | 9,70 / 8,00 / 6,50 | 10,20 / 8,70 / 6,50 | 11,00 / 9,50 / 7,00 | 12,50 / 10,00 / 7,00 |
| Sound pressure | Hi / Med / Lo | dB(A) | 38 / 34 / 29 | 38 / 34 / 29 | 39 / 35 / 29 | 42 / 37 / 30 | 44 / 38 / 30 |
| Dimension | H x W x D | mm | 600 x 750 x 207 | 600 x 750 x 207 | 600 x 750 x 207 | 600 x 750 x 207 | 600 x 750 x 207 |
| Net weight | | kg | 14 | 14 | 14 | 14 | 14 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) |

* Infrared remote controller (CZ-RWS3) doesn't need receiver as an optional. Receiver is included in the unit shipment.

## Simple operation design for easy to use




## Washable air filter




28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# K2 Type Wall Mounted



## The Wall mounted unit has a stylish smooth panel that looks good and easy to clean

The unit is also smaller, lighter and substantially quieter than previous models making it ideal for small offices and other commercial applications.

## Technical focus

- Closed discharge port
- Lighter and smaller units make the installation easy
- Quiet operation
- Smooth and durable design
- Piping outlet in three directions
- Air distribution is automatically altered depending on the operational mode



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-CENSC1**
Optional Econavi Sensor.



**CZ-RWS3**
Optional Controller.
Infrared remote controller.

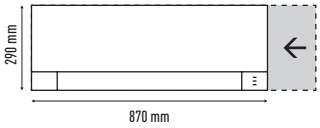


**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

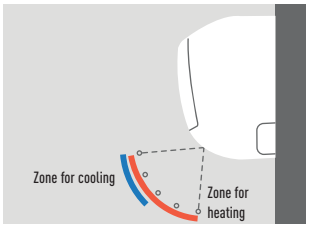
| Model | | | S-15MK2E5A | S-22MK2E5A | S-28MK2E5A | S-36MK2E5A | S-45MK2E5A | S-56MK2E5A | S-73MK2E5A | S-106MK2E5A |
|---|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 1,50 | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 7,30 | 10,60 |
| Input power cooling | | W | 25,00 | 25,00 | 25,00 | 30,00 | 30,00 | 35,00 | 55,00 | 80,00 |
| Operating current cooling | | A | 0,20 | 0,21 | 0,23 | 0,25 | 0,32 | 0,35 | 0,51 | 0,70 |
| Heating capacity | | kW | 1,70 | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 8,00 | 11,40 |
| Input power heating | | W | 25,00 | 25,00 | 25,00 | 30,00 | 30,00 | 35,00 | 55,00 | 80,00 |
| Operating current heating | | A | 0,20 | 0,21 | 0,23 | 0,25 | 0,32 | 0,35 | 0,51 | 0,70 |
| Fan type | | | Cross flow | Cross flow | Cross flow | Cross flow | Cross flow | Cross flow | Cross flow | Cross flow |
| Air volume Hi / Med / Lo | Cool | m³/min | 7,90/7,40/6,50 | 9,00/7,50/6,50 | 9,50/8,30/6,50 | 10,90/9,00/6,50 | 14,50/12,50/10,00 | 16,00/14,00/12,00 | 19,50/17,00/14,00 | 21,50/18,50/15,00 |
| | Heat | m³/min | 9,00/7,70/6,80 | 9,20/8,30/6,80 | 9,70/8,50/6,80 | 11,20/9,50/6,80 | 14,50/12,50/10,00 | 16,00/14,00/12,00 | 19,50/17,00/14,00 | 21,50/18,50/15,00 |
| Sound pressure | Hi / Med / Lo | dB(A) | 34/32/29 | 36/33/29 | 37/34/29 | 40/36/29 | 38/35/33 | 40/37/35 | 47/44/40 | 49/46/42 |
| Sound power | Hi / Med / Lo | dB | 49/47/44 | 51/48/44 | 52/49/44 | 55/51/44 | 53/50/48 | 55/52/50 | 62/59/55 | 64/61/57 |
| Dimension | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 | 302 x 1120 x 236 |
| Net weight | | kg | 9 | 9 | 9 | 9 | 13 | 13 | 14 | 14 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) | 5/8 (15,88) |

## Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent entry of dust into the unit and to keep the equipment clean. Lighter and smaller units make the installation easy. The width has been decreased by 17% and the units are lighter.




## Air distribution is automatically altered depending on the operational mode of the unit




## Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

## Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

## External valve (Optional)

CZ-P56SVK2 (model sizes 15 to 56)
CZ-P160SVK2 (model sizes 73 to 106)



28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | OPTIONAL WLAN | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

# P1 Type Floor Standing



## The compact Floor Standing P1 units are the ideal solution for providing perimeter air conditioning

The standard wired controller can be incorporated into the body of the unit.

## Technical focus

- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install
- Front panel opens fully for easy maintenance
- Removable air discharge grille gives flexible airflow
- Room for condensate pump
- For build-in remote control, only CZ-RTC2 is suitable



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



**CZ-RTC2**
Optional Controller.
Timer remote controller.
For Floor Standing (P1) indoor units.



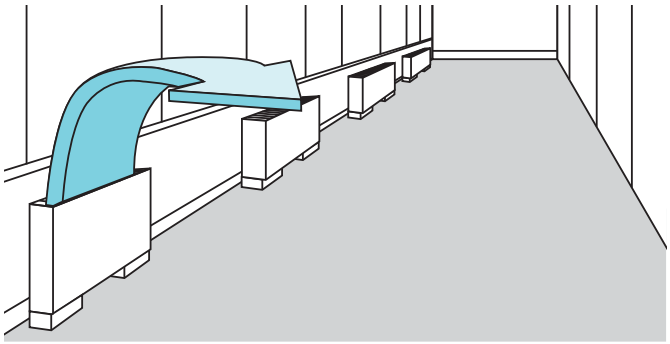
**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



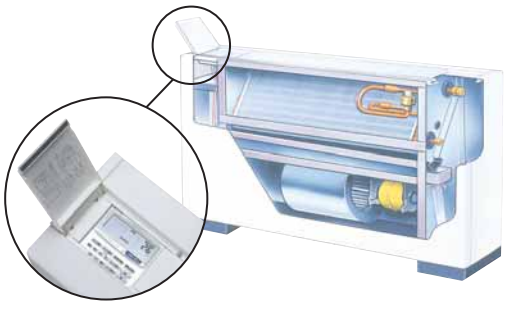
**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-22MP1E5 | S-28MP1E5 | S-36MP1E5 | S-45MP1E5 | S-56MP1E5 | S-71MP1E5 |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 7,10 |
| Input power cooling | | W | 56,00 | 56,00 | 85,00 | 126,00 | 126,00 | 160,00 |
| Operating current cooling | | A | 0,25 | 0,25 | 0,38 | 0,56 | 0,56 | 0,72 |
| Heating capacity | | kW | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 8,00 |
| Input power heating | | W | 40,00 | 40,00 | 70,00 | 91,00 | 91,00 | 120,00 |
| Operating current heating | | A | 0,18 | 0,18 | 0,31 | 0,41 | 0,41 | 0,54 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | m³/min | 7,00 / 6,00 / 5,00 | 7,00 / 6,00 / 5,00 | 9,00 / 7,00 / 6,00 | 12,00 / 9,00 / 8,00 | 15,00 / 13,00 / 11,00 | 17,00 / 14,00 / 12,00 |
| External static pressure | | Pa | 15 | 15 | 15 | 15 | 15 | 15 |
| Sound pressure | Hi / Med / Lo | dB(A) | 33 / 30 / 28 | 33 / 30 / 28 | 39 / 35 / 29 | 38 / 35 / 31 | 39 / 36 / 31 | 41 / 38 / 35 |
| Dimensions | H x W x D | mm | 615 x 1065 x 230 | 615 x 1065 x 230 | 615 x 1065 x 230 | 615 x 1380 x 230 | 615 x 1380 x 230 | 615 x 1380 x 230 |
| Net weight | | kg | 29 | 29 | 29 | 39 | 39 | 39 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |

## Effective perimeter handling



## Effective perimeter handling



SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# R1 Type Concealed Floor Standing

## At just 229mm deep, the R1 unit can be easily concealed in perimeter areas to provide powerful and effective air conditioning



## Technical focus

- Chassis unit for discreet installation
- Complete with removable filters
- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.



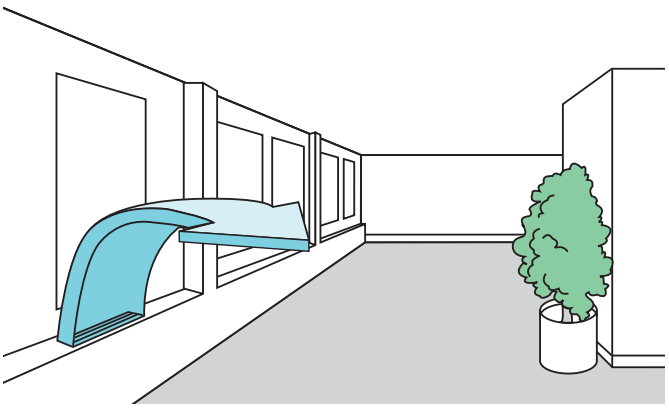
**CZ-RWS3 + CZ-RWRC3**
Optional Controller.
Infrared remote controller.



**CZ-RE2C2**
Optional Controller.
Simplified wired remote controller.

| Model | | | S-22MR1E5 | S-28MR1E5 | S-36MR1E5 | S-45MR1E5 | S-56MR1E5 | S-71MR1E5 |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity | | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 7,10 |
| Input power cooling | | W | 56,00 | 56,00 | 85,00 | 126,00 | 126,00 | 160,00 |
| Operating current cooling | | A | 0,25 | 0,25 | 0,38 | 0,56 | 0,56 | 0,72 |
| Heating capacity | | kW | 2,50 | 3,20 | 4,20 | 5,00 | 6,30 | 8,00 |
| Input power heating | | W | 40,00 | 40,00 | 70,00 | 91,00 | 91,00 | 120,00 |
| Operating current heating | | A | 0,18 | 0,18 | 0,31 | 0,41 | 0,41 | 0,54 |
| Fan type | | | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan | Sirocco fan |
| Air volume | Hi / Med / Lo | m³/min | 7,00/6,00/5,00 | 7,00/6,00/5,00 | 9,00/7,00/6,00 | 12,00/9,00/8,00 | 15,00/13,00/11,00 | 17,00/14,00/12,00 |
| External static pressure | | Pa | 15 | 15 | 15 | 15 | 15 | 15 |
| Sound pressure | Hi / Med / Lo | dB(A) | 33/30/28 | 33/30/28 | 39/35/29 | 38/35/31 | 39/36/31 | 41/38/35 |
| Dimensions | H x W x D | mm | 616 x 904 x 229 | 616 x 904 x 229 | 616 x 904 x 229 | 616 x 1219 x 229 | 616 x 1219 x 229 | 616 x 1219 x 229 |
| Net weight | | kg | 21 | 21 | 21 | 28 | 28 | 28 |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 1/4 (6,35) | 3/8 (9,52) |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 1/2 (12,70) | 5/8 (15,88) |

## Perimeter air conditioning with high interior quality



SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

# Hydrokit for ECOi Water at 45°C



## Connect the Hydrokit to your VRF system, together with other indoor units

**Basic principle & advantage.**

Hydrokit module provides hot water by using waste heat that is recovered from standard air-conditioning indoor unit in cooling mode.
Total system performs high energy efficiency by this heat recovering operation, and it gives an advantage for sustainability related assessment methods, such as BREEAM in UK.

## Technical focus

- Only with 3-Pipe ECOi EX MF3 Series outdoor units
- Remote controller CZ-RTC5B common use with DX Coil indoor units ECOi and PACi



**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.

| Model | | | | S-80MW1E5 | S-125MW1E5 |
|---|---|---|---|---|---|
| Power source | | | | 230V / Single Phase / 50 Hz | 230V / Single Phase / 50 Hz |
| Cooling capacity | | | kW | 8,00 | 12,50 |
| Heating capacity | | | kW | 9,00 | 14,00 |
| Maximum temperature | | | °C | ~45 / ~65 [1] | ~45 / ~65 [1] |
| Dimension | H x W x D | | mm | 892 x 502 x 353 | 892 x 502 x 353 |
| Water pipe connector | | | Inch | R 1 ¼ | R 1 ¼ |
| Water pump (built-in) | | | | DC motor (A class) | DC motor (A class) |
| Water flow rate | Cool | | L/min | 22,90 | 35,80 |
| | Heat | | L/min | 25,80 | 40,10 |
| Piping connections | Liquid pipe | | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) |
| | Gas pipe | | Inch (mm) | 5/8 (15,88) | 5/8 (15,88) |
| | Drain piping | | | 15 ~ 17mm (inner size) | 15 ~ 17mm (inner size) |
| Operation range | Cool | Ambient | °C | +10 ~ +43 | +10 ~ +43 |
| | | Water | °C | +5 ~ +20 | +5 ~ +20 |
| | Heat | Ambient | °C | -20 ~ +32 | -20 ~ +32 |
| | | Water | °C | +25 ~ +45 | +25 ~ +45 |
| Connectable system | | | | 3-Pipe (heat recovery type) VRF System (system capable up to 48HP) | |
| Maximum Indoor ratio (connectable hydrokit module capacity ratio) | | | | Total indoor unit + Hydrokit capacity: up to 130% (** ~ **% vs total outdoor unit capacity) | |

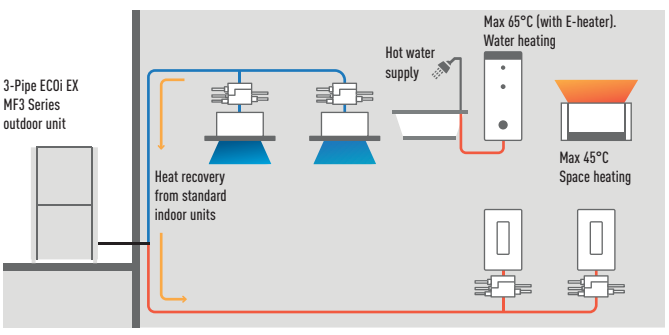
1) Max 45°C by refrigerant circuit (heat pump cycle), over 45°C is provided by electric heater operation.

## Hydrokit control function / CZ-RTC5B

- CZ-RTC5B is updated version from CZ-RTC3. It can be used for hydrokit and also normal indoor unit. CZ-RTC5B checks the type of connected unit and switch hydrokit or air conditioner style of display automatically
- Operating mode on hydrokit style to be set at initial setting of the system from following modes: tank mode or air conditioning mode

## Overview: hydromodule in VRF system

- Multiple hydromodule connection in same circuit is available
- Each module can be set different operation mode either hot water supply mode or space heating mode (both operation modes are not able to set at 1 hydromodule)
- 3-Pipe control solenoid valve kit is necessary for each indoor unit and hydromodule




* Cold water also available.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# NEW PRO-HT TANK SERIES FOR PACi AND ECOi

**MAXIMUM 75°C WATER OUTLET TEMPERATURE**



## PRO-HT Tank DHW. Big volume and high temperature tank for commercial application

### 1 High performance and high saving

- A7 COP 4,2 for ECOi 2-Pipe, 6,70 for ECOi 3-Pipe in case of heat recovery
- System label maximum A+++ (scale from A+++ to G)
- Efficient hot water production by heat recovery
- High temperature hot water without booster

### 2 Hot water production with simultaneous heating and cooling

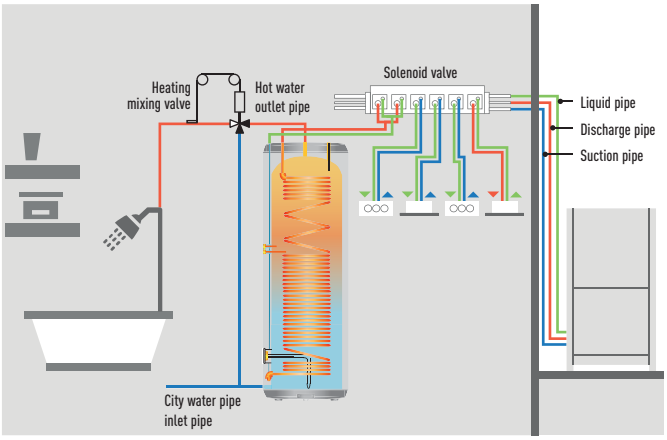
- Maximum water outlet temperature up to 75°C
- Big volume tank of 1000L capacity
- Heat exchanger design prevents limescale

### 3 Trusted quality

- Double tube heat exchanger following drinking-water regulation
- Tank and heat exchanger made with stainless steel
- Internal and external pickling

## Solution example DHW tank 1000L + ECOi 3-Pipe mixed system

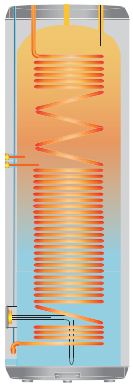
- Ideal offer for hotel projects
- DHW production under spontaneous heating and cooling
- Hot water up to 65°C is efficiently produced by heat recovery
- A7 COP 6,70 considering heat recovery




## One by one system compatible list with ECOi

| Model | Tank type | Product compatibility | Hot water outlet temperature |
|---|---|---|---|
| PAW-VP1000LDHW | DHW | U-10ME2 (2-Pipe) | 75°C |
| | | U-16MF3 (3-Pipe) | 65°C |

# New PRO-HT Tank DHW



NEW 2019

PRO-HT *TANK*

## Enjoy an efficient DHW and heating and cooling tank.

Panasonic commercial PRO-HT Tank solutions meet all needs of your hot water applications providing maximum water temperature 75°C.

**High temperature hot water is efficiently produced without any boosters.**

Panasonic commercial PRO-HT Tank solutions can be combined with ECOi 2-Pipe and 3-Pipe to adapt various projects from high-end residentials to offices and hotels.

## Technical focus

- Water volume 1000L
- Maximum hot water production 75°C without boosters
- Tank and heat exchanger made with stainless steel
- Heating coil 63m
- Internal and external pickling
- Foam insulation 100mm
- Tank material 3mm
- ABS external

| **PRO-HT Tank** | | | **PAW-VP1000LDHW** | |
|---|---|---|---|---|
| **Outdoor Unit** | | | **U-10ME2E8** | **U-16MF3E8** |
| Volume | | L | 933 | 933 |
| Height | H x W | mm | 2210 x 990 | 2210 x 990 |
| Connections to the water supply network | | | 1 1/4" | 1 1/4" |
| Net weight / with water | | kg | 186 / 1119 | 186 / 1119 |
| Nominal electrical power | | W | 6620 | 6920 |
| Reference tapping cycle | | | 2XL | 2XL |
| Energy consumption by chosen cycle A7 / W10-55 | | kWh | 5,80 | 5,06 |
| Energy consumption by chosen cycle A15 / W10-55 | | kWh | 4,90 | 4,46 |
| COP DHW (A7 / W10-55) EN 16147 [1] | | | 4,23 | 4,85 |
| COP DHW (A15 / W10-55) EN 16147 [2] | | | 5,00 | 5,50 |
| **Energy Efficiency Class (from A+ to G)** [3] | | | **A+** | **A+** |
| **System label (from A+++ to G)** [3] | | | **A+++** | **—** |
| Standby Input power according to EN16147 | | W | 77,00 | 73,00 |
| Sound Pressure on 1m | | dB(A) | 53 | 53 |
| Quantity of refrigerant | | g | 6,8 + 1,0 | 9,3 + 1,0 |
| Operating range - air temperature | | °C | -20 ~ +35 | -20 ~ +35 |
| Stainless steel 316L tank | | | Yes | Yes |
| Average insulation thickness | | mm | 100 | 100 |
| Heat exchanger connection for inlet / outlet | | Inch (mm) | 1/2 (12,70) / 3/4 (19,05) | 1/2 (12,70) / 3/4 (19,05) |
| Maximum power consumption without heater | | W | 9000 | 18500 |
| Maximum power consumption with heater | | W | 15000 | 24500 |
| Number of electrical heaters x power | | W | 1 x 6000 | 1 x 6000 |
| Voltage / Frequency | | V / Hz | 400 / 50 | 400 / 50 |
| Electric protection | | A | 16 | 16 |
| Moisture protection | | | IP 24 | IP 24 |
| Heating with heat pump | Min / Max | °C | 5 / 76 | 5 / 76 |
| Heating with electrical heater | Min / Max | °C | 55 / 75 | 55 / 75 |
| Refrigerant (R410A) / $CO_2$ Eq. | | kg / T | 7,80 / 16,2864 | 10,30 / 21,5064 |

| **Accessories** | |
|---|---|
| **PAW-VP-RTC5B-VRF** | Tank Controller for ECOi system |
| **PAW-VP-VALV-160** | Expansion valve kit 16kW |

| **Accessories** | |
|---|---|
| **PAW-VP-VALV-280** | Expansion valve kit 28kW |

1) Heating of sanitary water up to 55°C with inlet air temperature at 7°C, humidity at 89% and inlet water temperature at 10°C. According to EN16147. 2) Heating of sanitary water up to 55°C with inlet air temperature at 15°C, humidity at 74% and inlet water temperature at 10°C. According to EN16147. 3) Following LOT2 (COMMISSION DELEGATED REGULATION (EU) No. 812/2013).

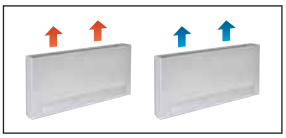
This product is designed to meet the European Drinking Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* When connected as pressurised, safety valve is mandatory.

# AQUAREA AIR







| | | PAW-AAIR-200-2 | | | PAW-AAIR-700-2 | | | PAW-AAIR-900-2 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Air flow** | **Speed** | **Min** | **Med** | **Max** | **Min** | **Med** | **Max** | **Min** | **Med** | **Max** |
| **Heating mode** | | | | | | | | | | |
| Total heating capacity | W | 217,00 | 470,00 | 570,00 | 708,00 | 1032,00 | 1188,00 | 886,00 | 1420,00 | 1703,00 |
| Water flow | kg/h | 37,30 | 80,80 | 98,00 | 121,80 | 177,50 | 204,30 | 152,40 | 244,20 | 292,90 |
| Water pressure drop | kPa | 0,40 | 2,00 | 2,90 | 0,30 | 0,80 | 1,00 | 0,50 | 1,60 | 2,20 |
| Inlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Outlet water temperature | °C | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Inlet air temperature | °C | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 |
| Outlet air temperature | °C | 38,90 | 32,00 | 30,00 | 33,30 | 31,80 | 30,60 | 30,20 | 31,10 | 30,60 |
| **Cooling mode** | | | | | | | | | | |
| Total cooling capacity | W | 237,00 | 345,00 | 555,00 | 756,00 | 1039,00 | 1204,00 | 1153,00 | 1518,00 | 1746,00 |
| Sensible cooling capacity | W | 230,00 | 314,00 | 504,00 | 646,00 | 903,00 | 1058,00 | 1061,00 | 1384,00 | 1598,00 |
| Water flow | kg/h | 40,00 | 59,00 | 95,00 | 129,00 | 178,00 | 207,00 | 198,00 | 261,00 | 300,00 |
| Water pressure drop | kPa | 0,40 | 2,00 | 2,90 | 1,00 | 2,00 | 2,00 | 6,00 | 9,00 | 12,00 |
| Inlet water temperature | °C | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Outlet water temperature | °C | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Inlet air temperature | °C | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 | 27,00 |
| Outlet air temperature | °C | 15,00 | 17,00 | 18,00 | 14,00 | 16,00 | 17,00 | 16,00 | 17,00 | 18,00 |
| Relative humidity of inlet air | % | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| Air flow | m³/min | 0,90 | 1,90 | 2,70 | 2,60 | 4,20 | 5,30 | 4,10 | 6,10 | 7,70 |
| Maximum input power | W | 7,00 | 9,00 | 13,00 | 14,00 | 18,00 | 22,00 | 16,00 | 20,00 | 24,00 |
| Sound pressure | dB(A) | 23 | 33 | 40 | 24 | 36 | 42 | 25 | 36 | 44 |
| Dimension (H x W x D) | mm | | 735 x 579 x 129 | | | 935 x 579 x 129 | | | 1135 x 579 x 129 | |
| Net weight | kg | | 17 | | | 20 | | | 23 | |
| 3 ways valve included | | | Yes | | | Yes | | | Yes | |
| Touch screen thermostat | | | Yes | | | Yes | | | Yes | |

## Super low temperature radiators for heat pump application

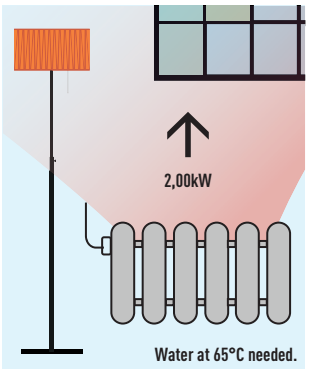
**The slimline Panasonic Aquarea Air radiators deliver high efficiency climate control.**

With a depth of just under 13cm they are at the cutting edge of the market. Blending easily into the home, Aquarea Air's elegant design and product refinements are clear to see in every detail.

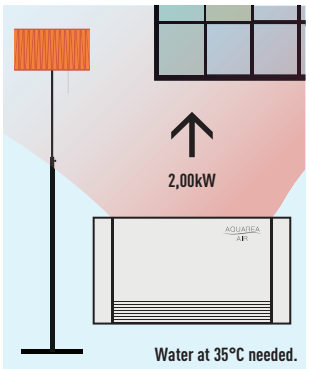
Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.



With standard cast radiators.




With Aquarea Air.




## Technical focus:

- High heating capacity
- 3 fan speeds and capacities
- Exclusive design
- Extremely compact (only 12,9cm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 radiators installed)
- Touch screen thermostat

**All temperature curves and capacity are available on www.panasonicproclub.com**

# FAN COILS





NEW 2019



**PAW-FC-303TC**
Optional Controller.
Wired remote controller.



**PAW-FC-RC1**
Optional Controller.
Wired remote controller.

| | | | Compact units | | | | | | | | High Static Pressure |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Left side connection** | | | PAW-FC-D11-1 | PAW-FC-D15-1 | PAW-FC-D24-1 | PAW-FC-D28-1 | PAW-FC-D40-1 | PAW-FC-D55-1 | PAW-FC-D65-1 | PAW-FC-D90-1 | PAW-FC-H150 |
| **Right side connection** | | | PAW-FC-D11-1-R | PAW-FC-D15-1-R | PAW-FC-D24-1-R | PAW-FC-D28-1-R | PAW-FC-D40-1-R | PAW-FC-D55-1-R | PAW-FC-D65-1-R | PAW-FC-D90-1-R | PAW-FC-H150-R |
| Total cooling capacity [1] | Med/S-Hi | kW | 1,0/1,5 | 1,2/1,7 | 2,0/2,5 | 2,4/3,2 | 3,2/4,6 | 4,6/5,8 | 6,1/7,3 | 6,1/8,1 | 11,9/14,8 |
| Sensible cooling capacity [1] | Med/S-Hi | kW | 0,8/1,1 | 0,9/1,3 | 1,5/1,9 | 1,8/2,3 | 2,2/3,3 | 3,3/4,5 | 4,3/5,1 | 4,6/6,3 | 9,6/12,9 |
| Heating capacity [1] | Med/S-Hi | kW | 1,4/2,0 | 1,5/2,2 | 2,4/3,1 | 2,9/4,0 | 4,1/5,7 | 5,3/7,1 | 7,9/9,3 | 8,1/11,6 | 14,9/19,9 |
| Power consumption | S-Lo/Med/S-Hi | W | 14/24/36 | 10/18/29 | 16/37/45 | 15/37/56 | 28/55/72 | 37/75/105 | 53/100/147 | 90/112/188 | 180/421/675 |
| Fuse rating | | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 |
| Dimensions (including pan and electrical box) | H x W x D | mm | 220x570x430 | 220x570x430 | 220x753x430 | 220x938x430 | 220x1122x430 | 220x1307x430 | 220x1121x530 | 220x1316x530 | 356x1600x798 |
| Weight (without water content) | | kg | 13 | 13 | 15 | 20 | 22 | 26 | 27 | 38 | 63 |
| Sound power global | S-Lo/Med/S-Hi | dB(A) | 33/40/49 | 31/43/50 | 30/45/52 | 30/44/51 | 34/46/56 | 38/51/58 | 43/56/61 | 50/55/64 | 52/64/71 |
| Sound pressure global | S-Lo/Med/S-Hi | dB(A) | 24/31/40 | 22/34/41 | 21/36/43 | 21/35/42 | 25/37/47 | 29/42/49 | 34/47/52 | 41/46/55 | 31/45/51 |
| Static pressure | Max | Pa | 30 | 30 | 50 | 50 | 70 | 70 | 70 | 70 | 110 |
| Airflow [1] | Med/S-Hi | m³/h | 190/283 | 179/265 | 274/390 | 357/499 | 486/716 | 640/933 | 893/1064 | 936/1397 | 2112/3176 |
| Water pressure drop | Med/S-Hi | kPa | 19,5/39,2 | 3,9/6,3 | 19,3/28,8 | 17,1/28 | 22,8/46,9 | 37,4/60,2 | 15,4/21,5 | 19,3/32,5 | 19,8/26,1 |
| Fan speeds | | | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds | 3 speeds |
| Fan motor and total speeds | | | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds | AC 5 speeds |
| Drain pan and Air filter | | | Included | Included | Included | Included | Included | Included | Included | Included | Included |
| Water connections | | Inch | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 1 |

| Accessories | |
|---|---|
| **PAW-FC-RC1** | Advanced wired control for Fan Coil |
| **PAW-FC-303TC** | Wired remote controller |
| **PAW-FC-2WY-11/55-1** | 2 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1) |
| **PAW-FC-2WY-65/90-1** | 2 way valve + drain pan (for PAW-FC-D65/90-1) |

| Accessories | |
|---|---|
| **PAW-FC-2WY-150** | 2 way valve (for PAW-FC-H150) |
| **PAW-FC-3WY-11/55-1** | 3 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1) |
| **PAW-FC-3WY-65/90-1** | 3 way valve + drain pan (for PAW-FC-D65/90-1) |
| **PAW-FC-3WY-150** | 3 way valve (for PAW-FC-H150) |

1) Airflow and capacity at 0Pa of static pressure. * Performances based on: Cooling: Air: 27°C DB / 19°C WB, Chilled water: 7°C / 12°C - Heating: Air: 20°C DB, Hot water: 50°C / 45°C.



## New range of Fan Coil units

Easy to install, improved sound level and performance. New Fan Coil range consist on one compact ducted range ideal for residential and commercial use and one model with high static pressure for commercial applications. The range certified by Eurovent includes drain pan and filter and are equipped with a low consumption fan motor.
The new D type is even more flexible thanks to L Drain pan, same unit can be installed in both Horizontal or in Vertical position.

## Fan Coil controller PAW-FC-RC1

This advance control can bring higher level of comfort in heating. The sensor can be used as water flow sensor, stopping the fan when low water temperature, avoiding cold drafts in winter.
Also is ready to use J Generation new feature of defrost mode and stop the Fan Coil.

**Features:**

- Room thermostat
- 3 outputs, 230V relays for fan control
- 2 outputs, 230V relays for heating / cooling control
- Modbus RTU slave
- 1 DI for presses detection (key card switch)
- 1 AI for sensor

**1** Innovation for an optimum comfort

**2** Low energy consumption fan

**3** Quality and efficient Coil

**4** Flexible vertical - horizontal installation

# PANASONIC VENTILATION SOLUTIONS



## For maximum savings and easy integration.

### AHU connection kit 16kW, 28kW and 56kW



AHU connection kit contains: IP65 box with PCBs and terminal connections mounted inside, expansion valve and sensors.
Heat exchanger, fan & fan motor to be mounted in the AHU itself shall be provided in the field.
Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.

**AHU Kit combines air conditioning and fresh air in just one solution.**

New AHU Kits connect ECOi systems to air handling unit systems, using the same refrigerant circuit as the VRF system. Large connectivity possibilities mean the Panasonic AHU Kit can be easily integrated.

**3 types of AHU Kit: Deluxe, Medium and Light.**

| Model Code | IP 65 | 0-10V demand control* | Outdoor temperature shift compensation. Cold draft prevention |
|---|---|---|---|
| PAW-160MAH2 / PAW-280MAH2 / PAW-560MAH2 | Yes | Yes | Yes |
| PAW-160MAH2M / PAW-280MAH2M / PAW-560MAH2M | Yes | Yes | No |
| PAW-160MAH2L / PAW-280MAH2L / PAW-560MAH2L | Yes | No | No |

* With CZ-CAPBC2.

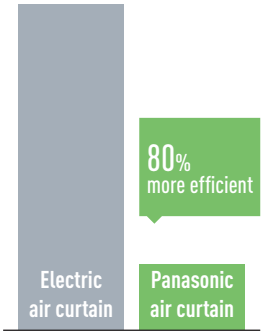
### Air Curtain with DX Coil



**Highly efficient heating effect.**
The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces.

The Panasonic range of air curtains is designed for smooth operation and efficient performance. Air curtains produce a continuous stream of air blown from the top to the bottom of an open doorway and create a barrier that people and products can flow across, but air can't. Designed to improve energy efficiency, minimise heat loss from a building, and to allow retailers to keep doors open to encourage customers, our Air Curtains are suitable for connection to both VRF and PACi Systems.

**Heating capacity comparison: Electrical air curtain / Panasonic air curtain**




* With the U-100PZH2E5 on the PAW-20PAIRC-LS. Calculation method: Taking as consideration SCOP of the Panasonic combination of 6.0. If 100 is the energy needed for a air curtain, Panasonic Air curtain will need 1/(1-6)*100=20.

### Heat Recovery With DX Coil



**Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free-cooling when convenient.**

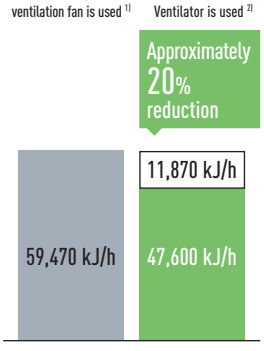
- Galvanized steel self-supporting panels, internally and externally insulated
- High efficiency enthalpic heat recover, static cross flow type, made by membrane with high moisture permeability, good air tightness, excellent tear resistance, and aging resistance, it is structures with flat plates and corrugated plates. Total heat exchange with temperature efficiency up to 76% and enthalpy efficiency up to 67%, also at high level during summer season
- ISO16890 $ePm_{2,5}$ 95% (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50% (G3 EN 779) pre-filter ON fresh air, COARSE 50% filter on return air intake
- Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- Low consumption, high efficiency & low noise direct driven fans with 3-speed EC motors
- Supply section complete with DX Coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream airflow

### Energy Recovery Ventilation



**Panasonic Energy Recovery Ventilators help you with your comfort and energy-saving plan.**
Panasonic Energy Recovery Ventilators can reduce the outside air load because they efficiently recover the heat lost by ventilation during the heat recovery process. This results in energy-saving ventilation and lower running costs for air-conditioning and heating equipment. Furthermore, by designing our current models with an counter-flow heat-exchange element, we achieved products with slim body shapes and quiet operation that create a comfortable and pleasant air-conditioned environment while saving energy.

- Dramatic energy savings achieved through adoption of a high-efficiency counter-flow heat-exchange element
- Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape
- All maintenance can be performed through a single inspection hole
- Straight air supply / exhaust system used for easier installation



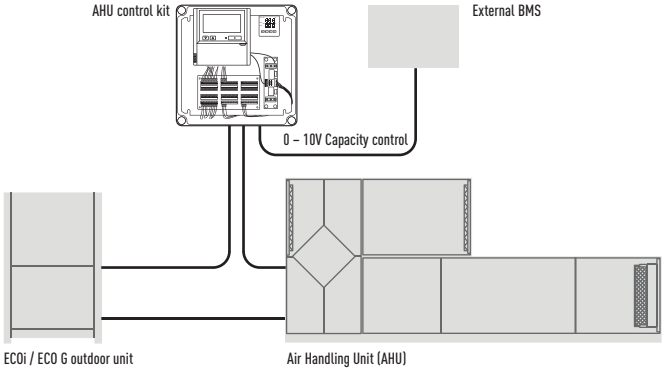

1) Two FY-27FPK7 units. 2) One FY-500ZDY8R unit.

# AHU connection kit 16, 28 and 56kW for ECOi and ECO G



## Panasonic AHU Kit, 16-56kW connected to ECOi or ECO G

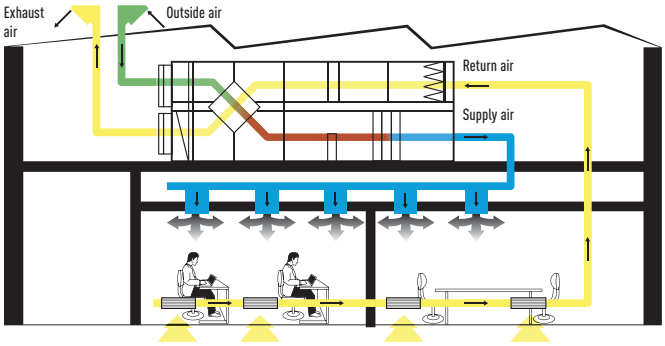
PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box.



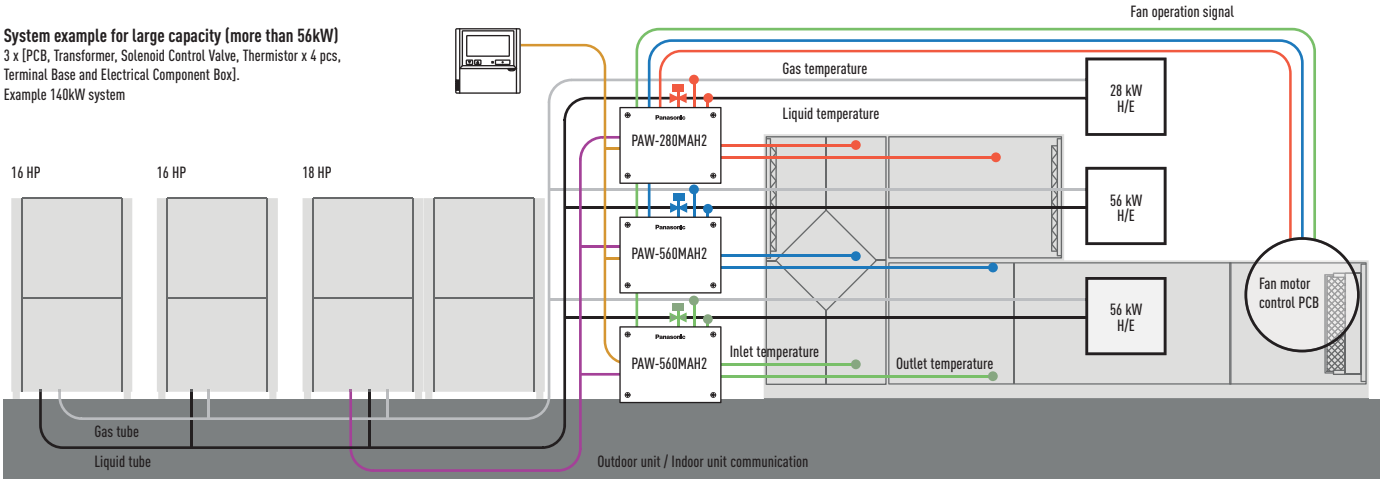

Demand control on the outdoor unit managed by external 0–10 V signal.

## Main components of mechanical ventilation systems

The main components of a mechanical ventilation system are the following: Air Handling Unit (AHU), air ducts and air distribution elements.




**System example for large capacity (more than 56kW)**
3 x [PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box].
Example 140kW system




## Optional parts: Following functions are available by using different control accessories:

### CZ-RTC4 Timer remote controller.

- Operation-ON/OFF
- Mode select
- Temperature setting

* Fan operation signal can be taken from the PCB.

### CZ-T10 terminal.

- Input signal= Operation ON/OFF
- Remote controller prohibition
- Output signal= Operating-ON status
- Alarm output (by DC12V)

### PAW-OCT, DC12 V outlet. OPTION terminal.

- Output signal= Cooling/Heating/Fan status
- Defrost
- Thermostat-ON

### CZ-CAPBC2 Mini seri-para I/O unit.

- Demand control 40% to 120% (5% steps) by 0-10V input signal
- Temperature setting by 0-10V or 0-140 Ω input signal
- Room (inlet air) temp outlet by 4-20mA
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output
- Thermostat ON/OFF control

### PAW-T10 PCB to connect to T10 connector.

- A Dry contact PCB has been developed to easily control the unit
- Input signal operation ON/OFF
- Remote control prohibition
- Output signal Operation ON status maximum 230V 5A (NO/NC)
- Output signal alarm status max. 230 V 5 A (NO/NC)
- Additional available contacts:
  - External humidifier control (ON/OFF) 230 VAC 3A
  - External fan control (ON/OFF) 12V DC
  - External filter status signal potential free
  - External float switch signal potential free
  - External leakage detection sensor or TH. OFF contact potential free (possible usage for external blow out temperature control)

ECOi 2-Pipe Series outdoor unit shall be used for AHU Connection Kit. 3 models for VRF system: 5HP (PAW-160MAH2/M/L), 10HP (PAW-280MAH2/M/L) and 20HP (PAW-560MAH2/M/L).

## With ECO G outdoor units

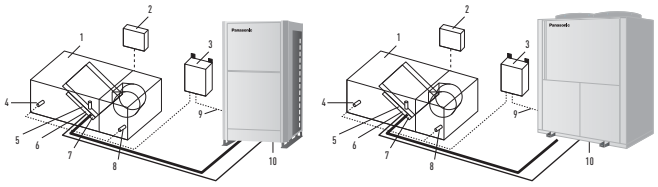
- One AHU kit may be used for one ECO G unit (2-Pipe, 56kW). Multiple AHU kits cannot be used
- Mixed with standard indoor units is not allowed
- Power specifications are Single Phase 220V to 240V

## Technical focus

- Maximum capacity/system: 60HP (168kW)
- Maximum piping length: 100m (120m equivalent)
- Elevation difference (indoor unit / indoor unit): 4m
- In/Out capacity ratio: 50~100%
- Maximum indoor unit number: 3 units*
- Outdoor temperature range in heating: -20 ~ +15°C
- Available temperature range for the suction air at AHU Kit: cool: +18 ~ +32°C / heat: +16 ~ +30°C

* To be simultaneous operation controlled by one remote controller sensor.

- The systems is controlled by the suction air (or room return air) temperature (same as standard indoor unit). (Selectable mode: Automatic / Cooling / Heating / Fan / Dry (but same as Cool)
- The discharge air temperature is also controlled to prevent too-low air discharge in cooling or too-high air discharge in heating (in case of VRF)
- Demand control (Forcible thermostat-OFF control by operating current)
- Defrost operation signal, Thermo-ON/OFF states output
- Drain pump control (Drain-pump and the float switch to be supplied in local)
- External target temperature setting via Indoor/Outdoor signal interface is available with CZ-CAPBC2 (Ex. 0 – 10V)
- Demand control 40% to 120% (5% steps) by 0-10V input signal
- Connectable with P-Link system. Special care for electrical noise may be necessary depending on the on-side system
- Fan control signal from the PCB can be used for control the air volume (high/mid/low and LL for Th-OFF). Need to change the fan control circuit wiring at field



**System & regulations. System overview.**

1. AHU Unit equipment (field supplied)
2. AHU Unit system controller field supplied)
3. AHU Kit controller box (with control PCB)
4. Thermistor for discharge air
5. Electronic expansion valve
6. Thermistor for gas pipe (E3)
7. Thermistor for liquid pipe (E1)
8. Thermistor for suction air
9. Inter-unit wiring
10. Outdoor unit

| HP | | | 5HP | 10HP | 20HP | 30HP | 40HP | 50HP | 60HP |
|---|---|---|---|---|---|---|---|---|---|
| | | | PAW-160MAH2/M/L | PAW-280MAH2/M/L | PAW-560MAH2/M/L | PAW-280MAH2/M/L<br>PAW-560MAH2/M/L | PAW-560MAH2/M/L<br>PAW-560MAH2/M/L | PAW-560MAH2/M/L<br>PAW-560MAH2/M/L<br>PAW-280MAH2/M/L | PAW-560MAH2/M/L<br>PAW-560MAH2/M/L<br>PAW-560MAH2/M/L |
| Nominal cooling capacity @ 50Hz | | kW | 14,00 | 28,0 | 56,0 | 84,0 | 112,0 | 140,0 | 168,0 |
| Nominal heating @ 50Hz | | kW | 16,00 | 31,5 | 63,0 | 95,0 | 127,0 | 155,0 | 189,0 |
| Cooling airflow | Hi / Lo | m³/min | 2600/1140 | 5000/3500 | 10000/7000 | 15000/10500 | 20000/14000 | 25000/17500 | 30000/21000 |
| Bypass factor | | | 0,9 (recommended) | 0,9 (recommended) | 0,9 (recommended) | 0,9 (recommended) | 0,9 (recommended) | 0,9 (recommended) | 0,9 (recommended) |
| Dimensions | H x W x D | mm | 303 x 232 x 110 | 404 x 425 x 78 | 404 x 425 x 78 | 404 x 425 x 78 | 404 x 425 x 78 | 404 x 425 x 78 | 404 x 425 x 78 |
| Weight | | kg | 3,2 | 6,3 | 6,3 | 6,3 | 6,3 | 6,3 | 6,3 |
| Piping length | Min / Max | m | 10/100 | 10/100 | 10/100 | 10/100 | 10/100 | 10/100 | 10/100 |
| Elevation difference (in/out) | Max | m | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9,52) | 3/8 (9,52) | 5/8 (15,88) | 3/4 (19,05) | 3/4 (19,05) | 3/4 (19,05) | 3/4 (19,05) |
| | Gas pipe | Inch (mm) | 5/8 (15,88) | 7/8 (22,22) | 1 1/8 (28,58) | 1 1/4 (31,75) | 1 1/2 (38,15) | 1 1/2 (38,15) | 1 1/2 (38,15) |
| Intake temperature of AHU Kit | Cool Min ~ Max | °C DB | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 | +18 ~ +32 |
| | Cool Min ~ Max | °C WB | +13 ~ +23 | +13 ~ +23 | +13 ~ +23 | +13 ~ +23 | +13 ~ +23 | +13 ~ +23 | +13 ~ +23 |
| | Heat Min ~ Max | °C | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 | +16 ~ +30 |
| Ambient temperature of outdoor unit | Cool Min ~ Max | °C | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 | -10 ~ +43 |
| | Heat Min ~ Max | °C | -20 ~ +15 | -20 ~ +15 | -20 ~ +15 | -20 ~ +15 | -20 ~ +15 | -20 ~ +15 | -20 ~ +15 |

| AHU connection kit / System combination | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Capacity (HP)** | **Outdoor unit combination** | | | **AHU kit combination** | | | |
| 28kW (10HP) | U-10ME2E8 | | | PAW-280MAH2 | | | |
| 56kW (20HP) | U-20ME2E8 | | | PAW-560MAH2 | | | |
| 84kW (30HP) | U-16ME2E8 | U-14ME2E8 | | PAW-560MAH2 | PAW-280MAH2 | | |
| 112kW (40HP) | U-20ME2E8 | U-20ME2E8 | | PAW-560MAH2 | PAW-560MAH2 | | |
| 140kW (50HP) | U-18ME2E8 | U-16ME2E8 | U-16ME2E8 | PAW-560MAH2 | PAW-560MAH2 | PAW-280MAH2 | |
| 168kW (60HP) | U-20ME2E8 | U-20ME2E8 | U-20ME2E8 | PAW-560MAH2 | PAW-560MAH2 | PAW-560MAH2 | |
| | | | | | | | |
| 56kW (20HP) | U-20GE3E5 | | | PAW-560MAH2 | | | |

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# New Air Curtain with DX Coil, connected to the VRF or PACi Systems

NEW 2019



## Highly efficient heating effect

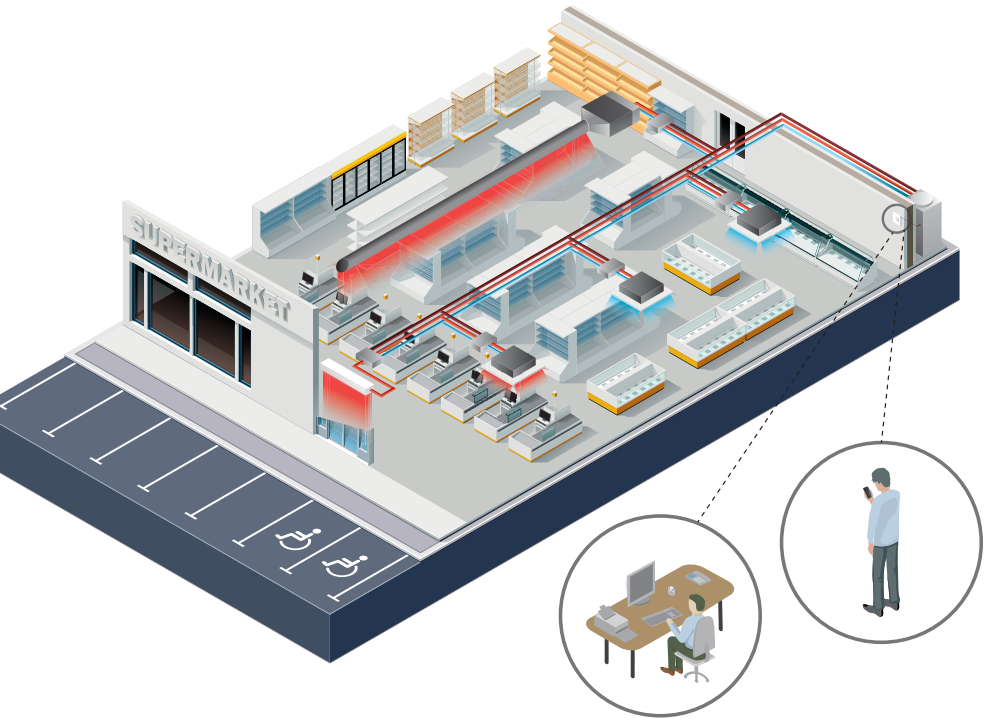
The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces.
Available in different lengths to suit requirements between 1 and 2,5m, both air curtains have outlet grilles that can be adjusted to five different positions. The HS model can be installed up to a height of 3,0m with the LS model up to 2,7m. The outlet grilles can be easily adjusted into five positions to suit different installation requirements and the air filter can be accessed without the need for specialist tools.

- High performance with EC fan motor (40% lower running costs compared to a standard AC fan motor)
- Easy Cleaning and Servicing
- Can be connected to either Panasonic VRF or PACi systems
- Built-in drain for cooling operation
- HS and LS models can be controlled via Panasonic's range of remote internet controls

The new HS and LS models are ideal for connection to a ECOi or PACi system. With simple "plug and play" installation, both are fitted with an EC fan motor for a smooth operation and efficient performance. This fan guarantees 40% lower running cost than with a standard AC fan motor. Air curtains run approximately 12 hours per day at shops, and efficient performance contributes to energy savings.

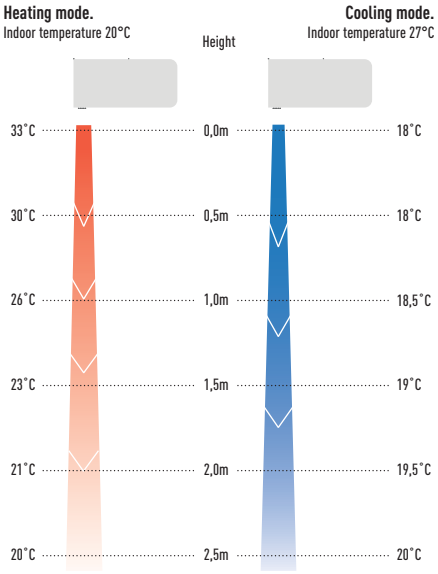
## Internet Control

An App added to your tablet or smartphone or via the Internet allows you to control and manage the system remotely. There is also the option to integrate into existing BMS systems by using other Panasonic interfaces.



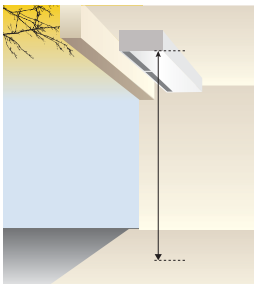

## Intelligent Operation

Our air curtains combine airflow and heating / cooling technology to ensure optimum comfort and energy efficiency whilst also creating an effective barrier between indoor and outdoor environments. Design and installation is key to achieving the correct height / temperature settings to achieve optimum performance. Our air curtains are designed to answer the demands of the retail, commercial and industrial markets.




## How does it work?

Stale air from the room is taken in and ejected near the door. This creates a 'roll of air' that shields the door area, mixing with the colder incoming air. It then turns away from the door, back into the room and toward the intake screen, where it is partly drawn in again. This flow of air helps to create a barrier for heat loss yet at the same time refreshes room air



**Max installation high.**
HS: 3,0m
LS: 2,7m

High efficiency air curtain connected to your PACi or VRF installation. EC Fan motor for a smooth operation and an efficient performance. 2 types of air flow available: LS and HS! Easy installation, regulation, cleaning, service.

## Technical focus

- Save up to 40% energy costs by use of the integrated EC fan technology (higher efficiency than conventional AC fan, soft start and longer motor duration)
- 4 length of air curtain LS and HS are available 1,0, 1,5, 2,0 and 2,5m
- Installation height up to 3,0m
- Outlet grilles can be adjusted in five positions, to suite different indoor and installation requirements
- Control with Panasonic remote control systems (optional)
- Direct integration to BMS by optional Panasonic interfaces
- Trip dray included in all DX air curtain steps

## Features

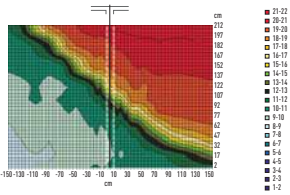
**Comfort:** Easy redirection of air flow by means of manual deflector.

**Ease of use:** Speed selector (high and low) on the unit itself.

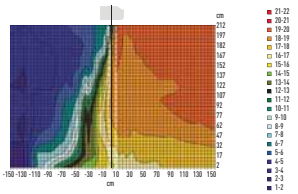
**Easy installation and maintenance:** Easy installation. Compact dimensions improve installation and positioning. Easy cleaning of grid without opening of the unit.

## Optimised airflow velocity

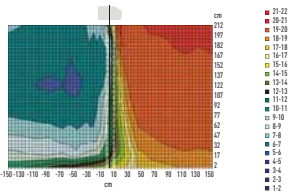
1. Energy losses, no air curtain installed
2. Too low velocity air curtain – air curtain not efficient
3. Optimum results with the Frico air curtain connected to Panasonic VRF
4. Too high velocity air curtain – considerable turbulence, energy lost to the outside, air curtain not efficient



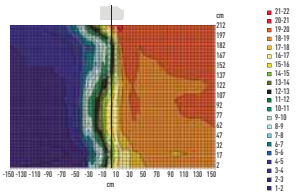
**Opening without air curtain.**
In an unprotected opening the cold air flows out and the cold storage room becomes much too warm.



**Opening with air curtain, wrong angle.**
If the angle is too small the hot air is blown into the the cold storage room.



**Opening with air curtain, too high speed.**
Excessive speed creates turbulence, which causes energy loss and increases the cold storage temperature.



**Opening with correctly adjusted air curtain.**
With a correctly set air curtain unit there is a sharp separation between the different temperature zones.

| Outdoor unit | | | 4HP | 4HP | 5HP | 8HP |
|---|---|---|---|---|---|---|
| **Air outlet height 2,7m** | | | **PAW-10EAIRC-LS** | **PAW-15EAIRC-LS** | **PAW-20EAIRC-LS** | **PAW-25EAIRC-LS** |
| Air volume | High / Low | m³/h | 1800/1000 | 2700/1400 | 3600/1900 | 4500/2400 |
| Cooling capacity [1] | Max | kW | 6,10 | 9,70 | 13,00 | 17,00 |
| Heating capacity [2] | Max | kW | 7,90 | 12,00 | 15,00 | 19,00 |
| Heat Exchanger | Volume | L | 1,67 | 2,85 | 3,94 | 5,03 |
| Piping connections | Liquid pipe / Gas pipe | mm | 16,6/15,0 | 16,6/22,0 | 16,6/22,0 | 16,6/22,0 |
| Electric consumption fan | 230V / 50Hz | kW | 0,30 | 0,50 | 0,60 | 0,80 |
| Fan type | | | EC | EC | EC | EC |
| Current | 230V / 50Hz | A | 2,10 | 3,10 | 4,10 | 5,10 |
| Sound Pressure [3] | | dB(A) | 49/65 | 48/66 | 50/67 | 51/69 |
| Dimension | H x W x D | mm | 1000 x 260 x 460 | 1500 x 260 x 460 | 2000 x 260 x 460 | 2500 x 260 x 460 |
| Weight | | kg | 50 | 65 | 80 | 95 |
| Door width | | m | 1,0 | 1,5 | 2,0 | 2,5 |
| Refrigerant | | | R410A | R410A | R410A | R410A |

| Outdoor unit | | | 4HP | 6HP | 8HP | 10HP |
|---|---|---|---|---|---|---|
| **Air outlet height 3,0m** | | | **PAW-10EAIRC-HS** | **PAW-15EAIRC-HS** | **PAW-20EAIRC-HS** | **PAW-25EAIRC-HS** |
| Air volume | High / Low | m³/h | 2700/1450 | 3600/1900 | 5400/2900 | 6300/3400 |
| Cooling capacity [1] | Max | kW | 9,10 | 13,00 | 19,50 | 23,70 |
| Heating capacity [2] | Max | kW | 11,80 | 15,80 | 23,60 | 27,60 |
| Heat Exchanger | Volume | L | 1,67 | 2,85 | 3,94 | 5,12 |
| Piping connections | Liquid pipe / Gas pipe | mm | 16,6/15,0 | 16,6/22,0 | 16,6/22,0 | 16,6/22,0 |
| Electric consumption fan | 230V / 50Hz | kW | 0,75 | 1,00 | 1,50 | 1,75 |
| Fan type | | | EC | EC | EC | EC |
| Current | 230V / 50Hz | A | 4,10 | 5,50 | 8,20 | 9,60 |
| Sound Pressure [3] | | dB(A) | 50/66 | 49/67 | 51/68 | 52/68 |
| Dimension | H x W x D | mm | 1000 x 260 x 460 | 1500 x 260 x 460 | 2000 x 260 x 460 | 2500 x 260 x 460 |
| Weight | | kg | 55 | 65 | 85 | 110 |
| Door width | | m | 1,0 | 1,5 | 2,0 | 2,5 |
| Refrigerant | | | R410A | R410A | R410A | R410A |

1) Cooling capacity DX Coil, air temperature in/out +27/+18°C, R32 and R410. 2) Heating capacity condenser, air temperature in/out +20/+33°C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary.
3) Measured in distance up to 5,0m, direction factor 2, absorbing surfaces 200m², Min / Max air volume.

GREEN TECH

BMS CONNECTIVITY

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Energy Recovery Ventilation

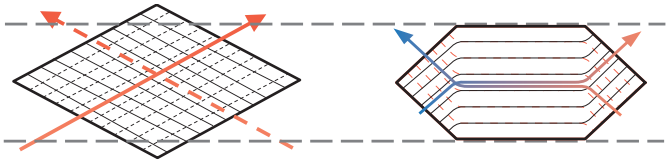


## Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings.

## Comparison of former and current elements

With the cross-flow element, air moves in a straight line across the element; with the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged even if the element is made thinner.



Former (cross-flow element)

New (counter-flow element)

## Heat exchange ventilation and normal ventilation

Energy-saving ventilation can be achieved through the proper use of heat-exchange ventilation and normal ventilation.

### Heat exchange ventilation.

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

### Normal ventilation.

This is used in the spring and autumn, when rooms are not cooled or heated, that is, when there is little difference between the indoor and outdoor air conditions. In addition, at night during the hot season, when the outside air temperature drops the outside air is drawn inside without heat exchange, alleviating the load on the air conditioning equipment.
The heat exchanger is made up of a membrane manufactured from a special material covered in resin for optimal heat transmission. The nylon/polyester fibre filter offers high dust retention capacity. We have also redesigned the air ducts to obtain a long-lasting heat exchange system which does not need periodic cleaning.

## Heat exchanger

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, airflows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged even if the element is made thinner.

## More comfort

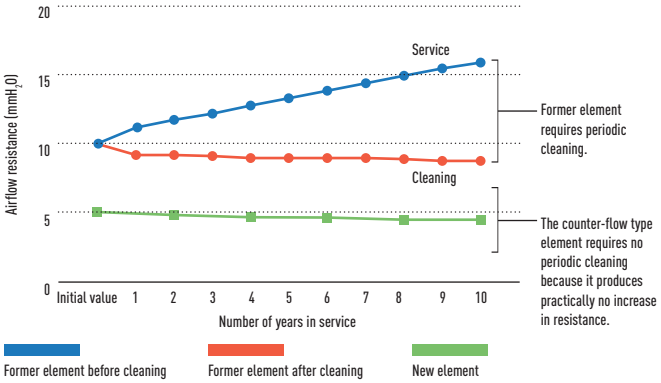
### Quiet operation

Low noise operation results in noticeably quieter units. All models with capacities below 500m³/h run at noise levels below 32dB (High setting) and even our largest 1.000m³/h-capacity model runs at only 37,5dB (High setting).

## Long service life of heat-exchange element

We used a nonwoven cloth filter with a high dust collection efficiency and redesigned the air flow passages to achieve a durable heat-exchange element that requires no periodic cleaning.

**Changes in airflow resistance based on number of years in service.**



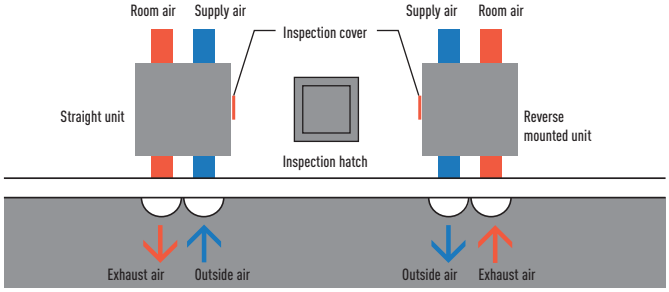

## Easy installation and maintenance

### Slim shape and easier installation.

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.
270mm Height: FY-25ØZDY8R // FY-35ØZDY8R // FY-50ØZDY8R
388mm Height: FY-80ØZDY8R // FY-01KZDY8R

### Reverse mountable direct air supply / exhaust system.

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Suppresses indoor temperature changes while providing fresh air. Recovers up to 77% of the heat in the outgoing air, for an ecological and energy efficient building.

## Features

### Energy efficiency and ecology.

- Up to 20% energy saving in the installation
- Recovers up to 77% of the heat in the outgoing air

### Comfort.

- Cleaning reduced due to the revolutionary structure (every 6 months)
- Ideal for indoor spaces without windows

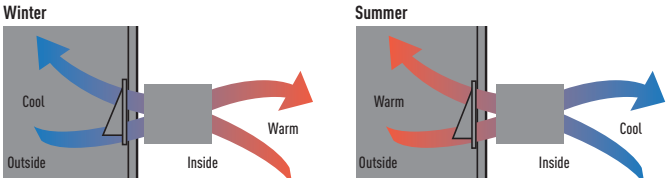
### Easy installation and maintenance.

- 5 models for easier selection
- Reduced system height (270mm and 388mm)
- Side opening for cleaning (inspection of filter, motor and other parts)
- Installation can be reversed to share an inspection opening between 2 machines
- Easy connection to the air conditioning unit (without additional elements)
- Installation in false ceilings
- Units operate at 220 - 240V
- High static pressure for easier installation

## Technical focus

- High energy saving, up to 20%
- Counter Cross Flow technology for better efficiency
- Long life element core
- Easy installation and 20% less thickness
- Easy connection to air conditioning units
- Silent units

## Balanced ventilation

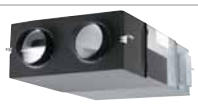



## A new intuitive & stylish control

- Included as a standard control
- Compact and flat panel
- Filter cleaning support
  - Signal alert for clearing
  - Filer usage condition by 1/2/3/4 months
- Size (W x H x D) 116 x 120 x 40mm



Included wired remote controller.

| Rated flow rate | | 250m³/h | | | 350m³/h | | | 500m³/h | | | 800m³/h | | | 1000m³/h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Models** | | **FY-250ZDY8R** | | | **FY-350ZDY8R** | | | **FY-500ZDY8R** | | | **FY-800ZDY8R** | | | **FY-01KZDY8R** | | |
| | |  | | |  | | |  | | |  | | |  | | |
| | | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** |
| Power source | | 220V / 240V / 50Hz | | | 220V / 240V / 50Hz | | | 220V / 240V / 50Hz | | | 220V / 240V / 50Hz | | | 220V / 240V / 50Hz | | |
| **Heat exchange ventilation** | | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** |
| Input power | W | 112,00/ 128,00 | 108,00/ 123,00 | 87,00/ 96,00 | 182,00/ 190,00 | 178,00/ 185,00 | 175,00/ 168,00 | 263,00/ 289,00 | 204,00/ 225,00 | 165,00/ 185,00 | 387,00/ 418,00 | 360,00/ 378,00 | 293,00/ 295,00 | 437,00/ 464,00 | 416,00/ 432,00 | 301,00/ 311,00 |
| Air volume | m³/h | 250 | 250 | 190 | 350 | 350 | 240 | 500 | 500 | 440 | 800 | 800 | 630 | 1000 | 1000 | 700 |
| External static pressure | Pa | 105 | 95 | 45 | 140 | 60 | 45 | 120 | 60 | 35 | 140 | 110 | 55 | 105 | 80 | 75 |
| Sound power | dB | 30,00/ 31,50 | 29,50/ 30,50 | 23,50/ 26,50 | 32,50/ 33,00 | 30,50/ 31,00 | 22,50/ 25,50 | 36,50/ 37,50 | 34,50/ 35,50 | 31,00/ 32,50 | 37,00/ 37,50 | 36,50/ 37,00 | 33,50/ 34,50 | 37,50/ 38,50 | 37,00/ 37,50 | 33,50/ 34,50 |
| Temperature exchange efficiency | % | 75 | 75 | 77 | 75 | 75 | 78 | 75 | 75 | 76 | 75 | 75 | 76 | 75 | 75 | 79 |
| **Normal ventilation** | | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** | **E-High** | **High** | **Low** |
| Input power | W | 112,00/ 128,00 | 108,00/ 123,00 | 87,00/ 96,00 | 182,00/ 190,00 | 178,00/ 185,00 | 175,00/ 168,00 | 263,00/ 289,00 | 204,00/ 225,00 | 165,00/ 185,00 | 387,00/ 418,00 | 360,00/ 378,00 | 293,00/ 295,00 | 437,00/ 464,00 | 416,00/ 432,00 | 301,00/ 311,00 |
| Air volume | m³/h | 250 | 250 | 190 | 350 | 350 | 240 | 500 | 500 | 440 | 800 | 800 | 630 | 1000 | 1000 | 700 |
| External static pressure | Pa | 105 | 95 | 45 | 140 | 60 | 45 | 120 | 60 | 35 | 140 | 110 | 55 | 105 | 80 | 75 |
| Sound power | dB | 30,00/ 31,50 | 29,50/ 30,50 | 23,50/ 26,50 | 32,50/ 33,00 | 30,50/ 31,00 | 22,50/ 25,50 | 37,50/ 38,50 | 37,00/ 38,00 | 31,00/ 32,50 | 37,00/ 37,50 | 36,50/ 37,00 | 33,50/ 34,50 | 39,50/ 40,50 | 39,00/ 39,50 | 35,50/ 36,50 |
| Temperature exchange efficiency | % | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Dimension H x W x D | mm | 270 x 882 x 599 | | | 317 x 1050 x 804 | | | 317 x 1090 x 904 | | | 388 x 1322 x 884 | | | 388 x 1322 x 1134 | | |
| Net weight | kg | 29 | | | 49 | | | 57 | | | 71 | | | 83 | | |

This noise of the product is the value which was measured at the acoustic room. Actually, in the established condition, that undergo influence by the echoing of the room and so that become bigger than the display numerical value. The input, the current and the exchange efficiency are values at the time of the mentioned air volume. The noise level shall be measured 1,5m below the centre of the unit. The temperature exchange efficiency averages that of when cooling and when heating.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# Heat Recovery with DX Coil



## Panasonic launches an heat recovery solution for greater energy efficiency.
## Panasonic's heat recovery solution performs well in extreme weather conditions and can achieve up to 77% efficiency (63% in enthalpy efficiency).

The counter-flow heat exchanger reduces the air conditioning load, enabling customers – typically owners of hotels, restaurants and other large commercial buildings – to reduce their energy consumption and save on the cost of maintaining comfortable room temperatures.

### Energy efficiency

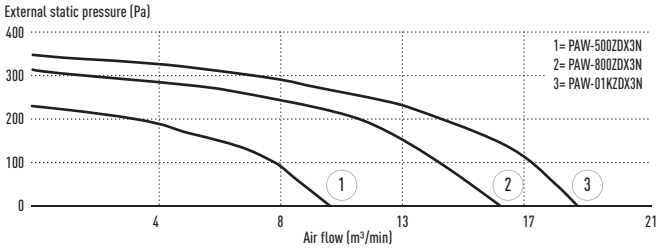
As the latest example of Panasonic's continued commitment to developing unbeatable, energy-efficient air conditioning technologies for commercial applications, the company has introduced a heat recovery device.
The unit features a DX Coil designed to recover up to 77% of the heat from outgoing air, and a air purifying system which helps to improve air quality.
In even the most demanding commercial applications, business owners will benefit from the unit's ability to by-pass the heat exchange process when the outside air temperature is cool enough for fresh air to be drawn directly inside (free cooling).
This alleviates the load on the air conditioning equipment and consequently reduces energy bills.

### Supply section complete

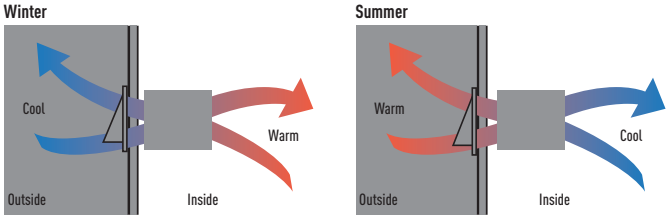
The supply section comes complete with the DX Coil (using R410A refrigerant) – fitted with a solenoid control valve, freon filter, contact temperature sensors on the liquid and gas line, and NTC sensors on the upstream and downstream airflows. The built-in electric box is equipped with a PCB to control the internal fan speed and to interconnect the outdoor and indoor units, and the ducts are connected by circular plastic collars.

### Characteristic curves

The following curves show the unit external static pressure at maximum fan speed for each model.




### Balanced Ventilation






## Interconnection

This ventilation unit is connected to an ECOi indoor unit (3,00kW, 4,00kW or 4,50kW) and can be controlled by the easy-to-use ECOi remote controller CZ-RTC5B.
This capability makes the system an excellent choice for hotels, offices (large and small), educational settings and other buildings requiring different temperatures in multiple rooms. The system also integrates easily with building management systems.

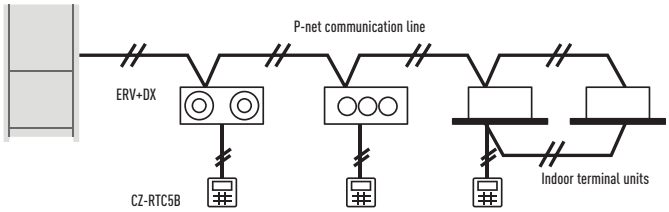
## Technical focus

- Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free-cooling when convenient

## General characteristics

- Galvanized steel self-supporting panels, internally and externally insulated
- High efficiency enthalpic heat recover, static cross flow type, made by membrane with high moisture permeability, good air tightness, excellent tear resistance, and aging resistance, it is structures with flat plates and corrugated plates. Total heat exchange with temperature efficiency up to 76% and enthalpy efficiency up to 67%, also at high level during summer season
- ISO16890 ePm$_{2,5}$ 95% (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50% (G3 EN 779) pre-filter ON fresh air, COARSE 50% filter on return air intake
- Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- Low consumption, high efficiency & low noise direct driven fans
- Supply section complete with DX Coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream airflow
- Built-in electric box equipped with PCB to control internal fan speed and to interconnect outdoor/indoor units
- Duct connection by circular plastic collars
- CZ-RTC5B Timer remote controller (option)

## Interconnection to outdoor/indoor units






**PAW-RE2C4**
Optional Controller.
Control for hotel application.



**CZ-RTC5B**
Optional Controller.
Wired remote controller.
Compatible with Econavi.

| Model | | | PAW-500ZDX3N | | PAW-800ZDX3N | | PAW-01KZDX3N | |
|---|---|---|---|---|---|---|---|---|
| Power source | Voltage | V | 230 | | 230 | | 230 | |
| | Phase | | Single Phase | | Single Phase | | Single Phase | |
| | Frequency | Hz | 50 | | 50 | | 50 | |
| Air volume | | m³/min | 8,33 | | 13,33 | | 16,66 | |
| External static pressure [1] | | Pa | 90 | | 120 | | 115 | |
| Maximum current | Total full load | A | 0,6 | | 1,4 | | 2,1 | |
| Input power | | W | 150 | | 320 | | 390 | |
| Sound pressure [2] | | dB(A) | 39 | | 42 | | 43 | |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6,35) | | 1/4 (6,35) | | 1/4 (6,35) | |
| | Gas pipe | Inch (mm) | 1/2 (12,70) | | 1/2 (12,70) | | 1/2 (12,70) | |
| **Heat recovery** | | | **Cooling** | **Heating** | **Cooling** | **Heating** | **Cooling** | **Heating** |
| Temperature efficiency | | % | 76 | 76 | 76 | 76 | 76 | 76 |
| Enthalpy efficiency | | % | 63 | 67 | 63 | 65 | 60 | 62 |
| Saved power summer mode or winter mode* | | kW | 1,70 | 4,30 (4,80) | 2,50 | 6,50 (7,30) | 3,20 | 8,20 (9,00) |
| **DX Coil** | | | | | | | | |
| Total / Sensible capacity | | kW | 3,00 / 2,10 | 2,50 / 2,70 | 5,10 / 3,50 | 4,40 / 4,80 | 5,80 / 4,10 | 5,20 / 6,70 |
| Off temperature | | °C | 15,9 | 28,0 (27,3) | 15,5 | 29,6 (29,0) | 16,2 | 28,5 (27,8) |
| Off relative humidity | | % | 90 | 16 (15) | 90 | 14 (13) | 89 | 15 (14) |

Nominal summer conditions: Outside air: 32°C DB, RH 50%. Ambient air: 26°C DB, RH 50%. Nominal winter conditions: Outside air: -5°C DB, RH 80%. Ambient air: 20°C DB, RH 50%. Cooling mode air inlet condition: 28,5°C DB, RH 50%; evaporating temperature 7°C. Heating mode air inlet condition: 13°C DB, RH 40% (11°C DB, RH 45%); condensating temperature 40°C. DB: Dry Bulb; RH: Relative Humidity.
1) Referred to the nominal air flow after filter and plate heat exchanger. 2) Sound pressure level calculated at 1m far from: ducted supply exhaust air ducted return - first air intake / service side, at normal condition. * Tentative data.

SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WLAN | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

# DIMENSIONS AND TUBE SIZES OF BRANCHES AND HEADERS FOR ECOi 2-PIPE SYSTEMS

## Optional Distribution Joint Kits

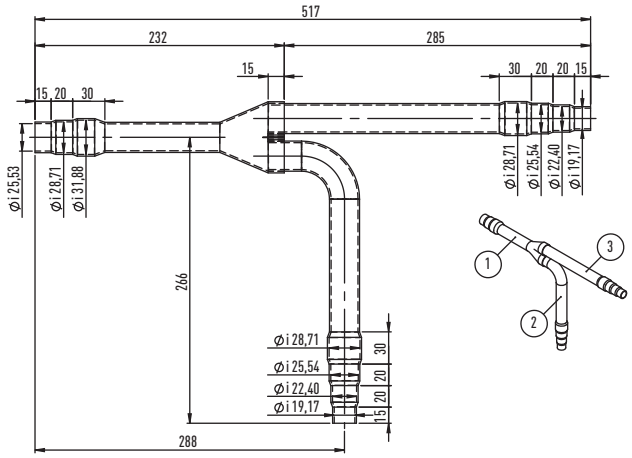
See the installation instructions packaged with the distribution joint kit for the installation procedure.

| Model name | Cooling capacity after distribution | Remarks |
|---|---|---|
| **1. CZ-P680PH2BM** | 68,00kW or less | For outdoor unit |
| **2. CZ-P1350PH2BM** | From 68,00kW to 168,00kW | For outdoor unit |
| **3. CZ-P224BK2BM** | 22,40kW or less | For indoor unit |
| **4. CZ-P680BK2BM** | From 22,40kW to 68,00kW | For indoor unit |
| **5. CZ-P1350BK2BM** | From 68,00kW to 168,00kW | For indoor unit |

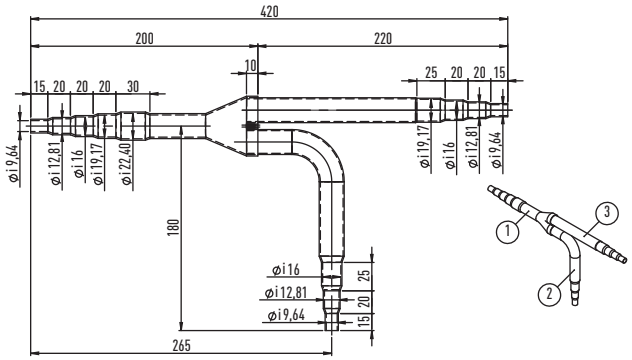
## Tubing size (with thermal insulation)

**1. CZ-P680PH2BM:** For outdoor unit side (Capacity after distribution joint is 68,00kW or less).

**Gas tubing**



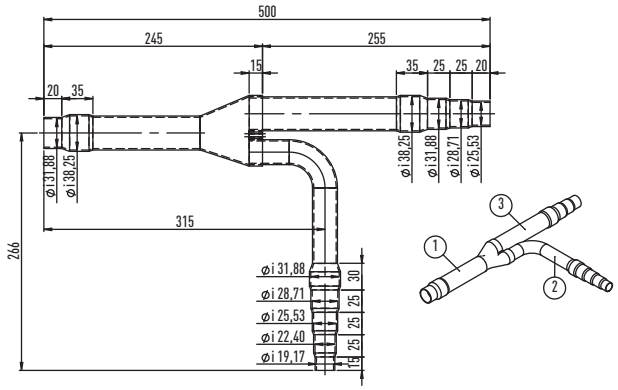

**Liquid tubing**



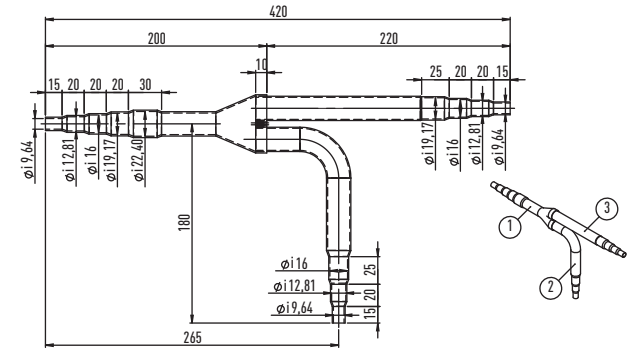

Unit: mm

**2. CZ-P1350PH2BM:** For outdoor unit side (Capacity after distribution joint is greater than 68,00kW and no more than 168,00kW).

**Gas tubing**



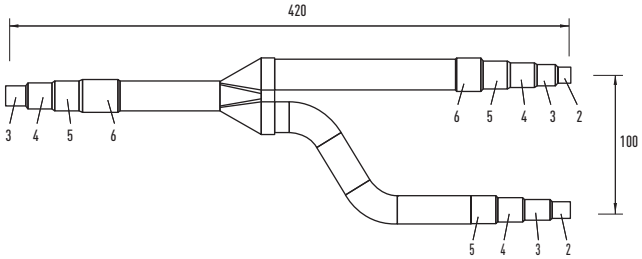

**Liquid tubing**



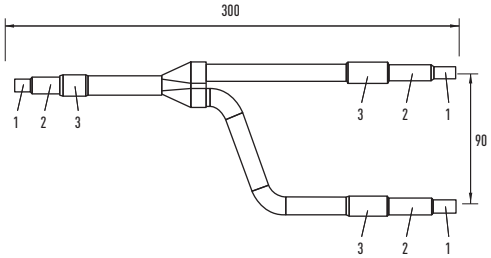

Unit: mm

**3. CZ-P224BK2BM:** For indoor unit side (Capacity after distribution joint is 22,40kW or less).

**Gas tubing**



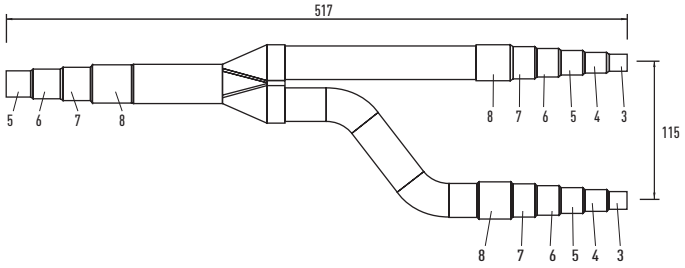

**Liquid tubing**



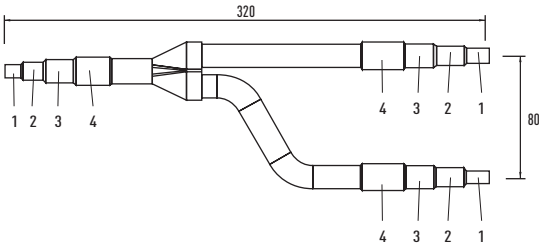

Unit: mm

**4. CZ-P680BK2BM:** For indoor unit side (Capacity after distribution joint is greater than 22,40kW and no more than 68,00kW).

**Gas tubing**



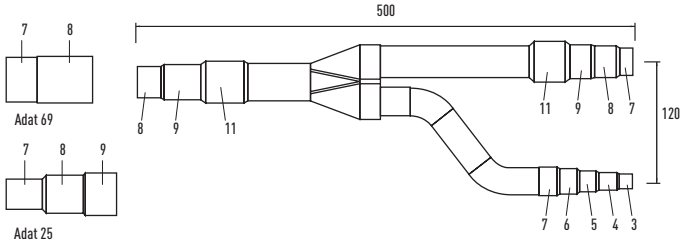

**Liquid tubing**



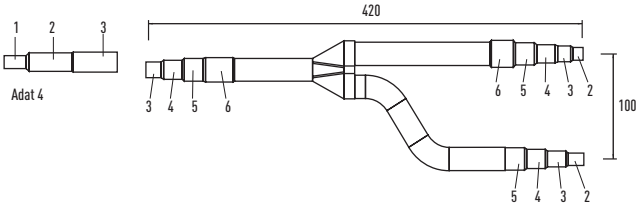

Unit: mm

**5. CZ-P1350BK2BM:** For indoor unit side (Capacity after distribution joint is greater than 68,00kW and no more than 168,00kW).

**Gas tubing**




**Liquid tubing**

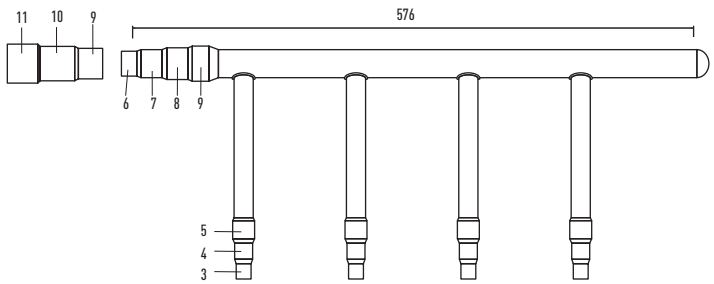


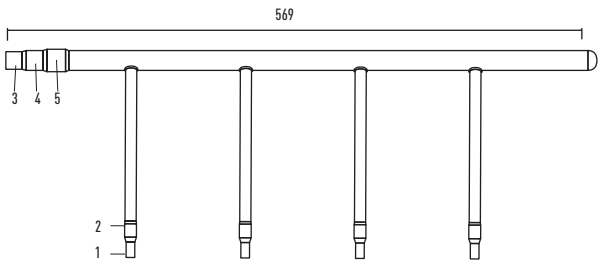

Unit: mm

| Diameters | | Diameters | | Diameters | |
|---|---|---|---|---|---|
| 1 | 6,35 mm 1/4" | 6 | 22,40 mm 7/8" | 11 | 38,10 mm 1"1/2 |
| 2 | 9,52 mm 3/8" | 7 | 25,40 mm 1" | 12 | 41,28 mm 1"5/8 |
| 3 | 12,70 mm 1/2" | 8 | 28,57 mm 1" 1/8 | 13 | 44,45 mm 1"3/4 |
| 4 | 15,88 mm 5/8" | 9 | 31,75 mm 1" 1/4 | 14 | 50,80 mm 2" |
| 5 | 19,05 mm 3/4" | 10 | 34,92 mm 1"3/8 | | |

## Header pipe set for ECOi 2-Pipe system

**CZ-P4HP4C2BM:** Header pipe models for 2-Pipe systems.




| Diameters | | Diameters | | Diameters | |
|---|---|---|---|---|---|
| 1 | 6,35 mm 1/4" | 5 | 19,05 mm 3/4" | 9 | 31,75 mm 1" 1/4 |
| 2 | 9,52 mm 3/8" | 6 | 22,40 mm 7/8" | 10 | 34,92 mm 1"3/8 |
| 3 | 12,70 mm 1/2" | 7 | 25,40 mm 1" | 11 | 38,10 mm 1"1/2 |
| 4 | 15,88 mm 5/8" | 8 | 28,57 mm 1" 1/8 | | |

# BRANCHES AND HEADERS FOR 3-PIPE ECOi AND MINI ECOi

## Optional distribution joint Kits for 3-Pipe ECOi EX MF3 Series

See the installation instructions packaged with the distribution joint kit for the installation procedure.

* In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

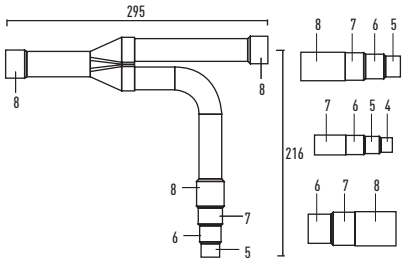
| Model name | Cooling capacity after distribution | Remarks |
|---|---|---|
| 1. CZ-P680PJ2BM | 68,00kW or less | For outdoor unit |
| 2. CZ-P1350PJ2BM | Greater than 68,00kW and no more than 135,00kW | For outdoor unit |
| 3. CZ-P224BH2BM | 22,40kW or less | For indoor unit |
| 4. CZ-P680BH2BM | Greater than 22,40kW and no more than 68,00kW | For indoor unit |
| 5. CZ-P1350BH2BM | Greater than 68,00kW and no more than 135,00kW | For indoor unit |

## Piping size for 3-Pipe ECOi EX MF3 Series

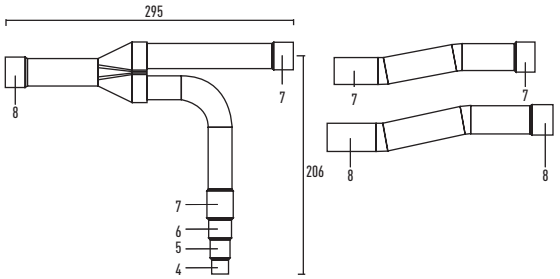
### 1. CZ-P680PJ2BM

For outdoor unit side (capacity after distribution joint is 68,00kW or less).

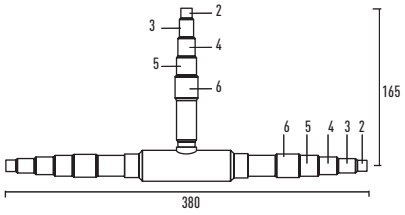
Gas piping




Discharge piping




Liquid piping

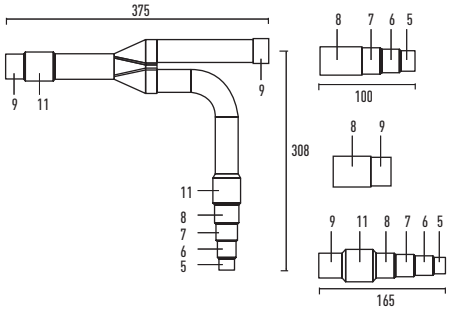



Unit: mm

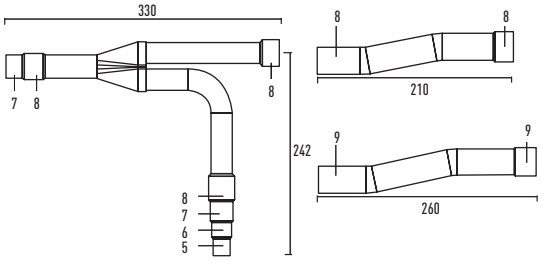
### 2. CZ-P1350PJ2BM

For outdoor unit side (capacity after distribution joint is greater than 68,00kW and no more than 135,00kW).

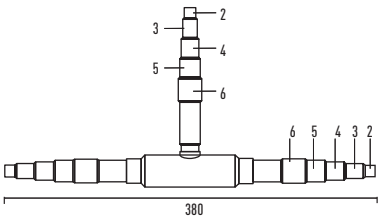
Suction piping




Discharge piping




Liquid piping

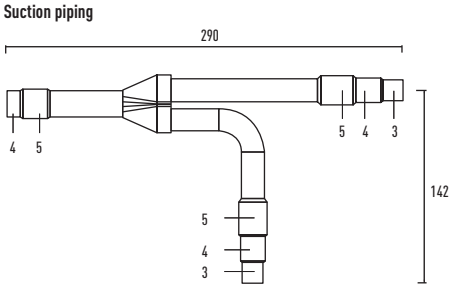



Unit: mm

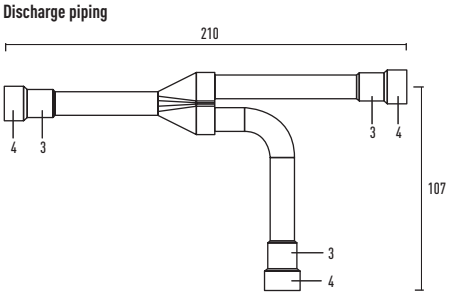
### 3. CZ-P224BH2BM

For indoor unit side (capacity after distribution joint is 22,40kW or less).

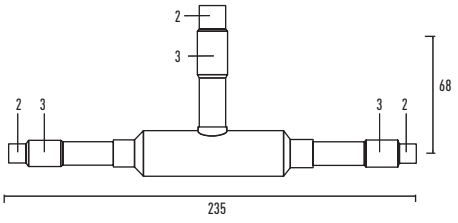
Suction piping




Discharge piping




Liquid piping




Unit: mm

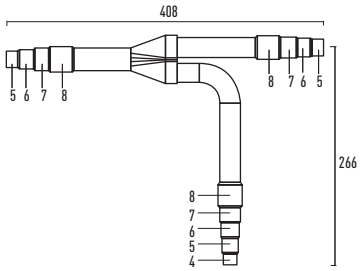
**Size of connection point on each part (shown are inside diameters of piping)**

| Size | | Part 1 | Part 2 | Part 3 | Part 4 | Part 5 | Part 6 | Part 7 | Part 8 | Part 9 | Part 10 | Part 11 | Part 12 | Part 13 | Part 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimension | mm | 6,35 | 9,52 | 12,70 | 15,88 | 19,05 | 22,40 | 25,40 | 28,57 | 31,75 | 34,92 | 38,10 | 41,28 | 44,45 | 50,80 |
| | Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 13/8 | 11/2 | 15/8 | 13/4 | 2 |

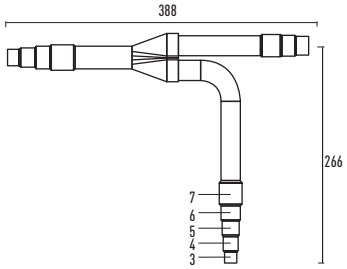
### 4. CZ-P680BH2BM

For indoor unit side (capacity after distribution joint is greater than 22,40kW and no more than 68,00kW).

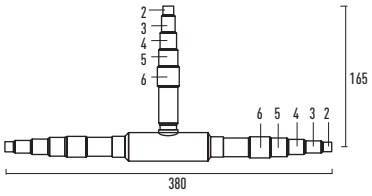
Suction piping




Discharge piping




Liquid piping

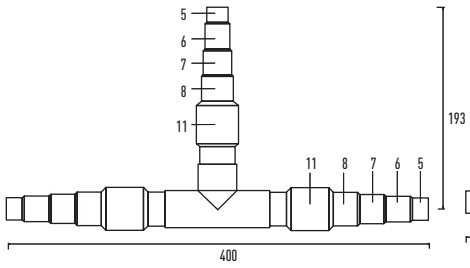



Unit: mm

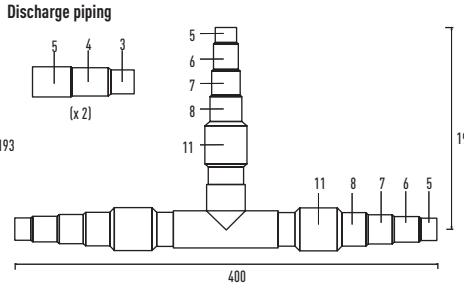
### 5. CZ-P1350BH2BM

For indoor unit side (capacity after distribution joint is greater than 68,00kW and no more than 135,00kW).

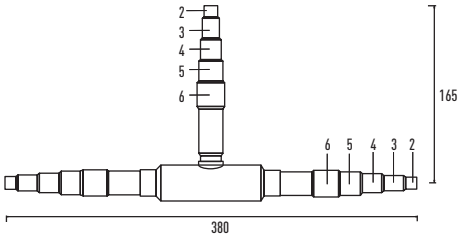
Suction piping




Discharge piping




Liquid piping

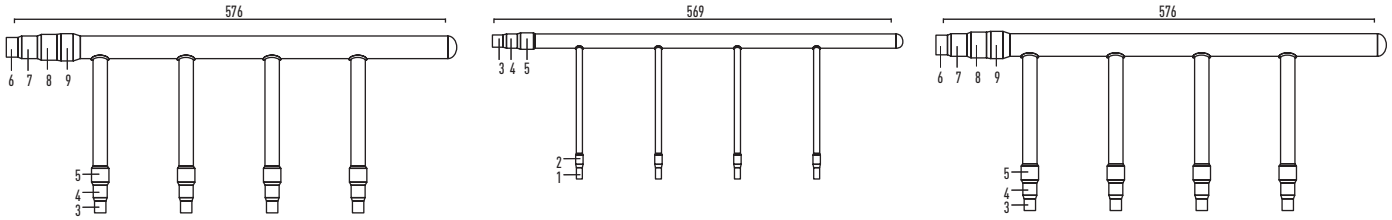



Unit: mm

## Header pipe set for 3-Pipe ECOi EX MF3 Series

### CZ-P4HP3C2BM

Header pipe model for 3-Pipe systems.




**Size of connection point on each part (shown are inside diameters of piping)**

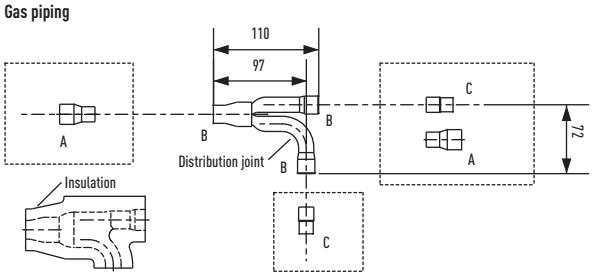
| Size | | Part 1 | Part 2 | Part 3 | Part 4 | Part 5 | Part 6 | Part 7 | Part 8 | Part 9 | Part 10 | Part 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimension | mm | 6,35 | 9,52 | 12,70 | 15,88 | 19,05 | 22,40 | 25,40 | 28,57 | 31,75 | 34,92 | 38,10 |
| | Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 13/8 | 11/2 |

## Distribution joint Kits for Mini ECOi LE Series

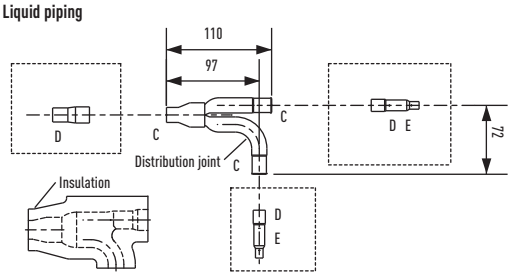
### CZ-P160BK2BM

For indoor unit (capacity after distribution joint is 22,40kW or less).

Gas piping




Liquid piping




Unit: mm

**Size of connection point on each part (shown are inside diameters of piping)**

| Size | | Part A | Part B | Part C | Part D | Part E |
|---|---|---|---|---|---|---|
| Dimension | mm | 19,05 | 15,88 | 12,70 | 9,52 | 6,35 |
| | Inches | 3/4 | 5/8 | 1/2 | 3/8 | 1/4 |

# ACCESSORIES & CONTROL

## Distribution Joint Kits

**CZ-P680PH2BM**
ECOi 2-Pipe for outdoor unit (68,00kW or less).

**CZ-P1350PH2BM**
ECOi 2-Pipe for outdoor unit (more than 68,00kW).

**CZ-P224BK2BM**
ECOi 2-Pipe for indoor unit (22,40kW or less*).

**CZ-P680BK2BM**
ECOi 2-Pipe for indoor unit (68,00kW or less*).

**CZ-P1350BK2BM**
ECOi 2-Pipe for indoor unit (more than 68,00kW*).

**CZ-P680PJ2BM**
ECOi 3-Pipe for outdoor unit (68,00kW or less).

**CZ-P1350PJ2BM**
ECOi 3-Pipe for outdoor unit (greater than 68,00kW and no more than 135,00kW).

**CZ-P224BH2BM**
ECOi 3-Pipe for indoor unit (22,40kW or less).

**CZ-P680BH2BM**
ECOi 3-Pipe for indoor unit (greater than 22,40kW and no more than 68,00kW).

**CZ-P1350BH2BM**
ECOi 3-Pipe for indoor unit (greater than 68,00kW and no more than 135,00kW).

**CZ-P160BK2BM**
ECOi 2-Pipe and Mini ECOi for indoor unit (22,40kW or less*).

**CZ-P4HP3C2BM**
3-Pipe header pipe.

* In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

## Heat Recovery Box

**KIT-P56HR3**
Box recovery kit up to 5,60kW (CZ-P56HR3 + CZ-CAPE2).

**KIT-P160HR3**
Box recovery kit from 5,60kW (CZ-P160HR3 + CZ-CAPE2).



**CZ-P56HR3**
Heat recovery box up to 5,60kW.

**CZ-P160HR3**
Solenoid valve kit up to 16,00kW.



**CZ-CAPE2**
Heat recovery PCB.



**CZ-P456HR3**
4 ports 3 pipe box up to 5,60kW.



**CZ-P656HR3**
6 ports 3 pipe box up to 5,60kW.



**CZ-P856HR3**
8 ports 3 pipe box up to 5,60kW.



**CZ-P4160HR3**
4 ports 3 pipe box up to 16,00kW.

## Panels



**CZ-KPU3W**
Normal panel for 90x90 Cassette.



**CZ-KPU3AW**
Econavi panel for 90x90 Cassette.



**CZ-KPY3AW**
Panel for 60x60 Cassette size 700x700mm.



**CZ-KPY3BW**
Panel for 60x60 Cassette size 625x625mm.



**CZ-02KPL2**
Panel for 2 Way Cassette (for S-22 to S-56 models).



**CZ-03KPL2**
Panel for 2 Way Cassette (for S-73 models).



**CZ-KPD2**
Panel for 1 Way Cassette.

## Individual Controls



**CZ-RTC5B**
Design wired remote controller with Econavi function.



**CZ-RWS3 + CZ-RWRU3**
Infrared remote controller for 4 Way 90x90 Cassette.



**CZ-RWS3**
Infrared remote controller for Wall, 4 Way 60x60 (with CZ-KPY3AW) and Floor Console.



**CZ-RWS3 + CZ-RWRD3**
Infrared remote controller for 1 Way Cassette.



**CZ-RWS3 + CZ-RWRT3**
Infrared remote controller for Ceiling.



**CZ-RWS3 + CZ-RWRC3**
Infrared remote controller for all indoor units.



**CZ-RWS3 + CZ-RWRL3**
Infrared remote controller for 2 Way Cassette.



**CZ-RTC2**
Standard wired remote controller for Floor Standing (P1).



**CZ-RE2C2**
Simplified wired remote controller.



**CZ-CSRC3**
Temperature remote sensor.

## Controller and touch controllers for Hotels with Dry Contacts



**PAW-RE2C3-WH-1**
Stand-Alone with I/O, White.

**PAW-RE2C3-MOD-WH-1**
Modbus RS-485 with I/O, White.



**PAW-RE2C4-MOD-WH**
NEW Modbus RS-485 touch room controller with I/O, White.

**PAW-RE2C4-MOD-BK**
NEW Modbus RS-485 touch room controller with I/O, Black.



**PAW-RE2D4-WH**
NEW Touch display control with 2 inputs, White.

**PAW-RE2D4-BK**
NEW Touch display control with 2 inputs, Black.

## Hotel sensors for Dry Contacts



**PAW-WMS-DC**
NEW Wall motion sensor 24V.

**PAW-WMS-AC**
NEW Wall motion sensor AC.



**PAW-CMS-DC**
NEW Ceiling motion sensor 24V.

**PAW-CMS-AC**
NEW Ceiling motion sensor AC.



**PAW-24DC**
NEW Power supply 24V.



**PAW-DWC**
NEW Door or window contact.

## Centralised Controls



**CZ-64ESMC3**
System Controller with Schedule timer. Operation with various function from center station.



**CZ-ANC3**
Central ON/OFF controller, up to 16 groups, 64 indoor units.



**CZ-256ESMC3**
Simplified load distribution ratio (LDR) for each tenant. Intelligent Controller (Touch screen panel).

## Centralised Controls. BMS System. PC Base




**CZ-CSWKC2**
PAIMS Basic software.




**CZ-CSWAC2**
PAIMS Consumption calculation control.

**CZ-CFUNC2**
Communication adaptor.

**CZ-CSWBC2**
PAIMS - BACnet interface.

**CZ-CSWGC2**
PAIMS - Layout display.

**CZ-CSWWC2**
PAIMS - Web application.

## Centralised Controls. Connection with 3rd Party Controller



**CZ-CAPDC2**
Serial parallel device controlling outdoor units, up to 4 units.



**CZ-CAPC3**
Adaptor for ON/OFF control of external devices.



**CZ-CAPBC2**
Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.



**CZ-CFUNC2**
Communication Adaptor. Up to 128 groups. Controls 128 units.

## VRF Smart Connectivity

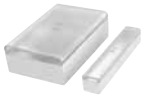
Panasonic Schneider Electric



**SER8150R0B1194**
Remote Controller Panasonic Net Con, RH, No PIR, R1/R2.

**SER8150R5B1194**
Remote Controller Panasonic Net Con, RH, PIR, R1/R2.

**VCM8000V5094P**
Wireless Zigbee Pro module / Green Com card.



**SED-WDC-G-5045**
Door / window wireless sensor.



**SED-MTH-G-5045**
Wall / ceiling (motion) wireless sensor.



**SED-CO2-G-5045**
$CO_2$ sensor.



**SED-TRH-G-5045**
Sensor with room temperature and humidity.

## Accessories Interfaces



**PAW-RC2-KNX-1i**
KNX Interface.

**PAW-AC-KNX-64**
KNX Interface for 64 I_U.

**PAW-AC-KNX-128**
KNX Interface for 128 I_U.



**PAW-AC-BAC-1**
BACnet Interface for 1 unit.

**PAW-AC-BAC-64**
BACnet Interface for 64 I_U.

**PAW-AC-BAC-128**
BACnet Interface for 128 I_U.



**PAW-RC2-MBS-1**
Modbus Interface.

**PAW-AC-MBS-64**
Modbus Interface for 64 I_U.

**PAW-TM-MBS-RTU-64**
Modbus Interface for 64 I_U.



**PAW-RC2-MBS-4**
Modbus interface to control 4 indoor/groups.

**PAW-AC-MBS-128**
Modbus Interface for 128 I_U.

**PAW-TM-MBS-TCP-128**
Modbus Interface for 128 I_U.



**PAW-AC2-MBS-16P**
NEW Modbus Interface for 16 I_U.

**PAW-AC2-MBS-64P**
NEW Modbus Interface for 64 I_U.

**PAW-AC2-MBS-128P**
NEW Modbus Interface for 128 I_U.



**PAW-AC2-BAC-16P**
NEW BACnet Interface for 16 I_U.

**PAW-AC2-BAC-64P**
NEW BACnet Interface for 64 I_U.

**PAW-AC2-BAC-128P**
NEW BACnet Interface for 128 I_U.



**PAW-AC2-KNX-16P**
NEW KNX Interface for 16 I_U.

**PAW-AC2-KNX-64P**
NEW KNX Interface for 64 I_U.



**PAW-MBS-TCP2RTU**
ModBus RTU Slave devices.



**PA-RC2-WIFI-1**
Interface for Intesishome for PACi and ECOi.



**CZ-CAPRA1**
Domestic with CN-CNT port integration to PACi and ECOi.



**CZ-CAPWFC1**
NEW Commercial WLAN Adaptor.



**CZ-CLNC2**
Lonworks® Interface controls up to 16 groups and 64 indoor units.

## Panasonic AC Smart Cloud



**CZ-CFUSCC1**
Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.

**PAW-MVN0AC-V**
**PAW-MVN0AC-K**
3G communication package (SIM Card included). V, K: Depending on countries.

## Accessories PCB



**PAW-T10**
All T10 functions.

**PAW-ECF**
PCB for fan speed control of external EC Fan.



**PAW-PACR3**
Redundancy of 2 or 3 systems; for PACi and ECOi.

## Accessories Cables



**CZ-T10**
Cable for all the T10 functions.



**PAW-FDC**
Cable to operate external EC fan.



**PAW-OCT**
Cable for all option monitoring signals.

**PAW-EXCT**
Cable with force Thermo OFF/leakage Detection.

## Pump Down System



**PAW-PUDME1A-1**
ECOi 2-Pipe Pump down for 1 outdoor unit system.

**PAW-PUDME1A-2**
ECOi 2-Pipe Pump down for 2 outdoor units system.

**PAW-PUDME1A-3**
ECOi 2-Pipe Pump down for 3 outdoor units system.

**PAW-PUDMF2A-1**
ECOi 3-Pipe Pump down for 1 outdoor unit system.

**PAW-PUDMF2A-2**
ECOi 3-Pipe Pump down for 2 outdoor units system.

**PAW-PUDMF2A-3**
ECOi 3-Pipe Pump down for 3 outdoor units system.

**PAW-PUDME1A-1R**
ECOi 2-Pipe Pump down for 1 outdoor unit system + Receiver Kit 30L.

**PAW-PUDME1A-2R**
ECOi 2-Pipe Pump down for 2 outdoor units system + Receiver Kit 30L.

**PAW-PUDME1A-3R**
ECOi 2-Pipe Pump down for 3 outdoor units system + Receiver Kit 30L.

**PAW-PUDMF2A-1R**
ECOi 3-Pipe Pump down for 1 outdoor unit system + Receiver Kit 30L.

**PAW-PUDMF2A-2R**
ECOi 3-Pipe Pump down for 2 outdoor units system + Receiver Kit 30L.

**PAW-PUDMF2A-3R**
ECOi 3-Pipe Pump down for 3 outdoor units system + Receiver Kit 30L.

**PAW-PUDRK30L**
Receiver Kit 30L.

## Other Accessory



**CZ-CNEXU1**
nanoe™ X air purifying system for 90x90 Cassette.



**CZ-CENSC1**
Econavi energy savings sensor.

## Fan coil Controller

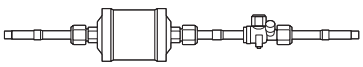


**PAW-FC-303TC**
Fan coil control.



**PAW-FC-RC1**
NEW Wired remote controller.

## R-22 Replacement Kit



**CZ-SLK2**
Replacement kit for R-22.



# CONTROL AND CONNECTIVITY




Panasonic has developed the largest range of control systems to offer the best option for commercial need.
From the individual remote controller for the residential single units up to the newest technology to control each your buildings around the world from an easy to use software in the cloud by your portable device.

# VRF SMART CONNECTIVITY+

Schneider Electric



Through thorough energy management, Panasonic's VRF Smart Connectivity is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and running.

VRF Smart Connectivity+ offers efficient energy management and a new air conditioning control solution with high IAQ (Indoor Air Quality).

| | |
|---|---|
| **Energy Management System for Rooms** | Each room is monitored by high-precision sensors, making it possible to make every room's temperature comfortable without wasting energy. |
| **Management System for the Entire Building** | A Building Energy Management System (BEMS) can also be connected for Plug & Play centralised control of the building's entire energy consumption. |

## Advantages

**Dramatic Reduction of OpEx with Outstanding IAQ.**
- 3 Built-in sensors: Temperature, RH and Occupancy
- ZigBee wireless sensors: $CO_2$ / Temperature / RH%, window / door, ceiling / wall / water leakage
- Relay Pack, Hotel Room Controller

**User-/Owner-friendly.**
- Colour touch screen
- Ease and simply of use
- 22 Languages
- Easy-to-understand error description

**Ultimate Customisation.**
- Background colour customisable
- Custom display/icons, messages
- Programmable logic (also stand alone)
- Various controls and various external connection devices

**Easy Design and Plug and Play to Reduce CapEx.**
- Simple Plug & Play VRF connection to Building Energy Management System (BEMS)
- Stand alone or BEMS connected
- Easy Installation of ZigBee Sensors

## VRF Smart Connectivity+: New SE8000.

### 1 Quality Air Control

Optimum IAQ is realized using the $CO_2$ and humidity sensors. The interior remains comfortable, while heating and cooling costs are minimized.
The $CO_2$ sensor controls ventilation systems which contributes to improving the room's air quality.



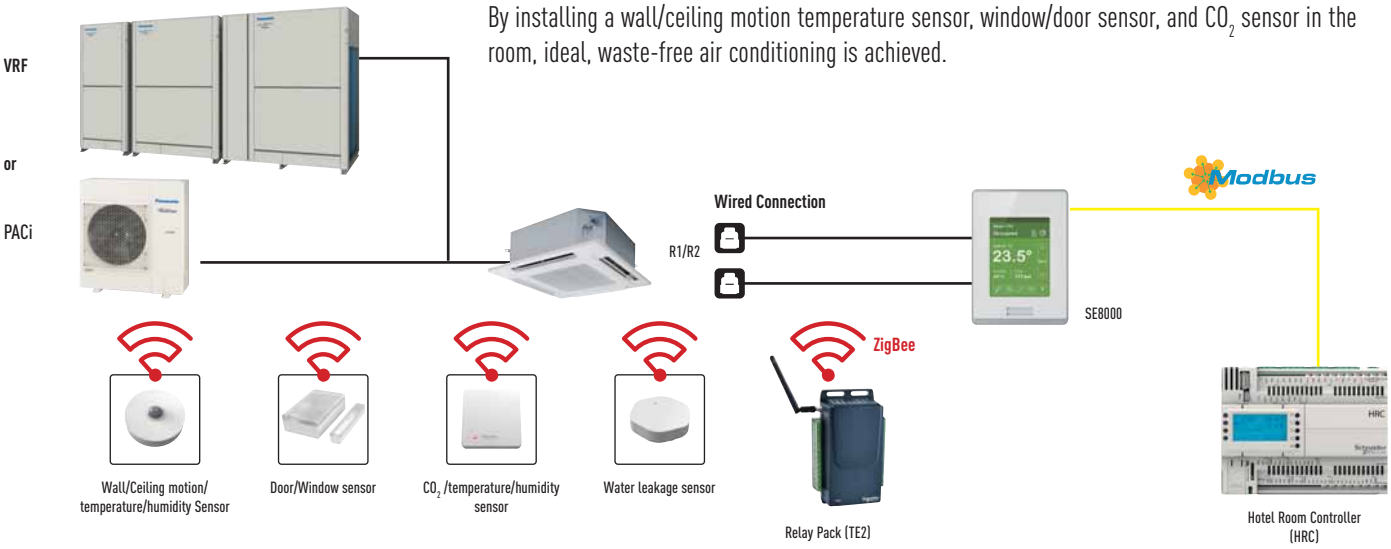

### 2 Room Key Card or Key Cardless Solutions for Hotels

Solutions are provided that meet the needs of various regions and hotel grades.
Whilst the previous model's automatic detection function offered optimal air conditioning with or without a hotel room key card, the latest model enables conventional key cards to control air conditioners and other devices coordinately. The increase in the types of devices that can be connected enables customized control of any hotel room.

### 3 Other Equipment Control

One room controller manages various devices including lighting and the blinds.
A ventilation system and other external connection devices (Dry Contact input) can be connected by HRC or TE2 devices so that various control is possible with this controller alone, even without BEMS.

# ENERGY MANAGEMENT SYSTEM FOR ROOMS

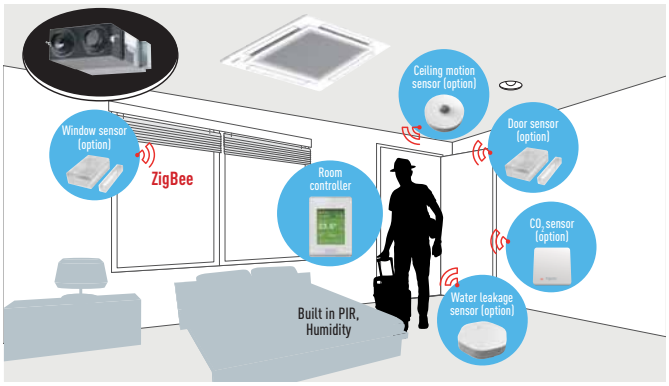



By installing a wall/ceiling motion temperature sensor, window/door sensor, and $CO_2$ sensor in the room, ideal, waste-free air conditioning is achieved.

## Sensing & Control technology

Using sensors from Schneider Electric, high-quality occupancy control and automatic IAQ control were realised. The sensors detect the presence or absence of occupants, and the opening and closing of doors and windows to achieve the most efficient energy management for exceptional air-conditioned comfort.
Flexible installation is possible to match different applications and building features such as walls, ceilings and proximity to doors and windows. No wiring means extra installation versatility.

Batteries last for up to five years (10-year battery for $CO_2$ sensor) and are easy to install and replace.






**Door/Window sensor**
Door and window contact detection sensor to monitor opening and closing.



**Wall/Ceiling motion/temperature/humidity Sensor**
Wall and ceiling sensor to detect the presence or absence of occupants.



**$CO_2$ /temperature/humidity sensor**
Monitor indoor air quality, review data on interfacing devices, and control fresh air inside customizable zones.



**Water leakage sensor**
Two sensing pads under the body activate when water is present between the two pads. Detecting the water, the sensor reports the event to the controller.



**Relay Pack (TE2)**
Wireless programmable terminal equipment controllers for HVAC equipment and pulse counting. Includes local memory to store fail safe control sequence.



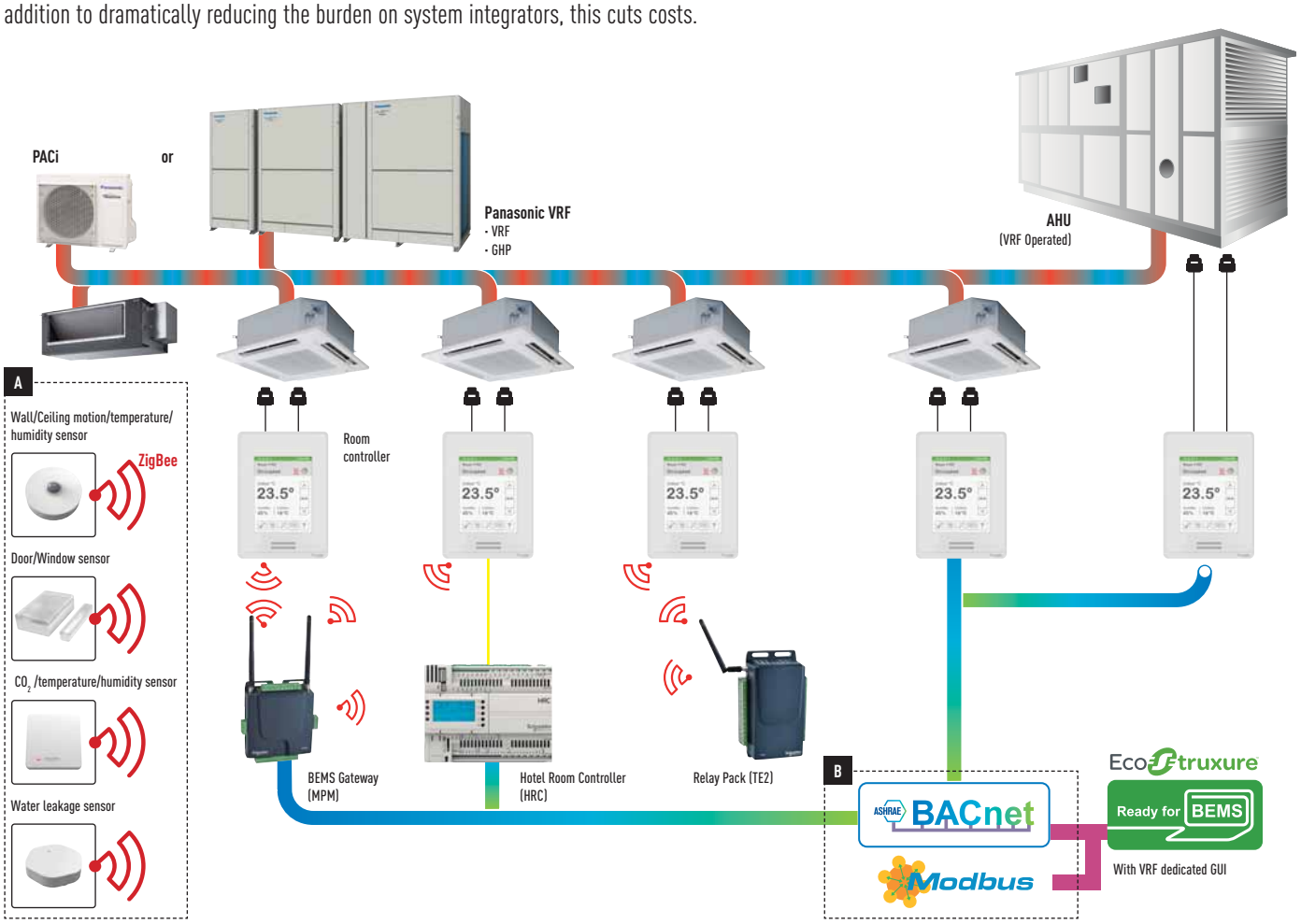
**Hotel Room Controller (HRC)**
The Hotel Room Controller controls connected guest room devices and aggregates data, making it visible to guest room and property management systems.

# MANAGEMENT SYSTEM FOR THE ENTIRE BUILDING

## The smarter solution to simplify energy management, optimise building efficiency and drive savings.

### Plug and Play BEMS connection

With the SE8000, connection to BEMS is extremely easy. Better still, a remote controller is all that's needed to enable use as a stand-alone system. In addition to dramatically reducing the burden on system integrators, this cuts costs.




**A** SE8000 smart controller with direct hub to ZigBee® Pro sensors.
Great Occupancy and IAQ control.
Ex: Hotel room occupancy check by PIR sensor, IAQ by $CO_2$ sensor, Door / Window contacts.

**B** BACnet MS/TP and Modbus RTU are embedded.

**C** For Schneider Electric BEMS connection, Panasonic VRF widgets enable easy Plug and Play.
Better understanding for VRF as a chiller system.



**BEMS Gateway (MPM)**
Multi-Purpose Management devices enable the control, monitoring, and management of entire sites via Schneider Electric's BMS system.

**C**

Schneider Electric **BEMS Widget** (Exclusive)




* Graphic shows combination of products from Panasonic, Schneider Electric and others. Please consult authorised dealer for more details.

| Reference | Description |
|---|---|
| SER8150ROB1194 | Pana Net Con, RH, No PIR, SE Brand, R1R2 |
| SER8150R5B1194 | Pana Net Con, RH, PIR, SE Brand, R1R2 |
| VCM8000V5094P | Wireless ZigBee Pro communication card |
| **TE2*** | |
| SEC-TEA-R-230-5045 | Smart Terminal Controller ZigBee Pro High Power, External Antenna, 4UI/4AO/5DO, 220-240VAC |
| SEC-TEA-R-24-5045 | Smart Terminal Controller ZigBee Pro High Power, External Antenna, 4UI/4AO/5DO, 24VAC |

| Reference | Description |
|---|---|
| **MPM*** | |
| MPM-UN-0I4-5045 | Universal network controller with Building Expert and StruXureWare integration, High Power, 6 I /60, Modbus |
| MPM-RAEC-5045 | Universal network controller Cable extension |
| **HRC*** | |
| HRCEP14R | Hotel Room Expansion Module 14 indoor units |
| HRCPBG28R | Hotel Room Controller 28 indoor units |
| HRCPDG42R | Hotel Room Controller w/Display 42 indoor units |

| Reference | Description |
|---|---|
| **ZigBee Sensors** | |
| SED-CO2-G-5045 | Sensor with room $CO_2$, temperature and humidity |
| SED-TRH-G-5045 | Sensor with room temperature and humidity |
| SED-WDC-G-5045 | Door/window sensor |
| SED-MTH-G-5045 | Wall/ceiling motion/temperature/humidity sensor |
| SED-WLS-G-5045 | Water leakage sensor |

* Those accessories require system integrator support on site.

# SMART MANAGEMENT SOLUTIONS

## 1 Hotels

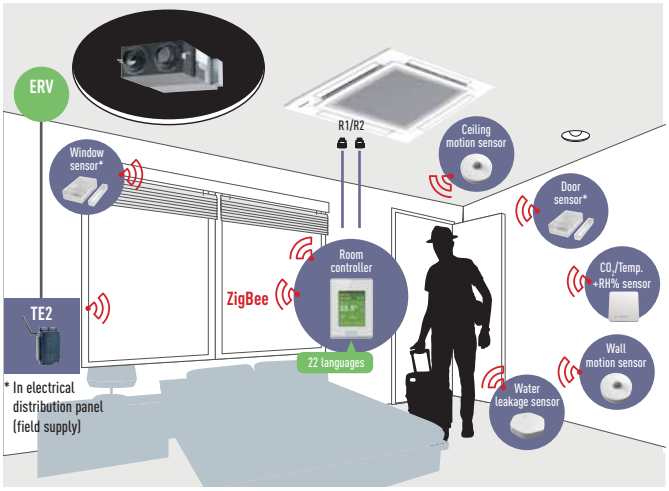
**Room Key Card or Key Cardless Solutions for Hotels.**

The SE8000 and ZigBee Sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect. Automatic control ensures the most efficient operation when guests are away or when windows are open. This contributes to an appreciable reduction in operation costs.



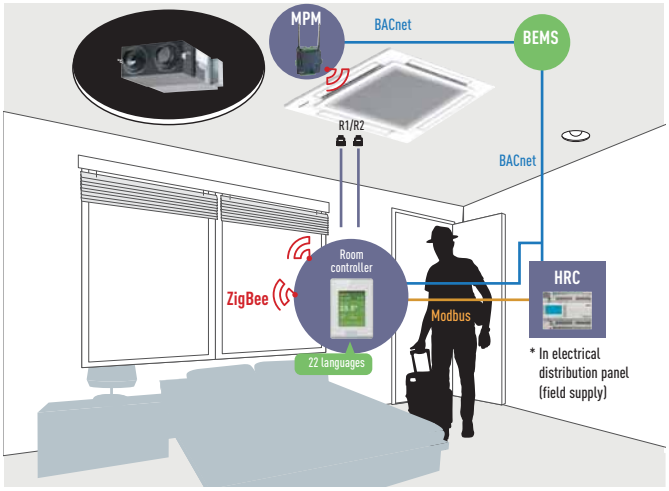
### 1. Remote sensing & IAQ contorol.

In addition to detecting a room's temperature, humidity and $CO_2$ concentration, ZigBee remote sensors detect the opening/closing of windows and doors, and the presence/absence of people in a room Various IAQ controls and detailed energy savings are possible by using TE2 (Relay Pack) based on this detected information.



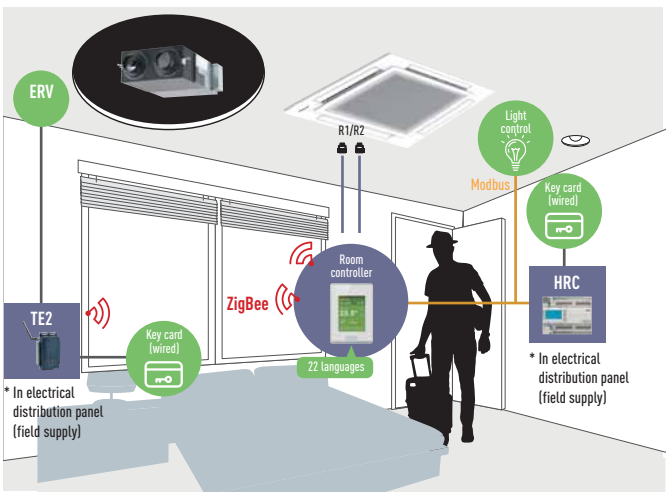

### 2. BEMS Connectivity.

With MPM as the BEMS gateway and by setting HRC as the guestroom controller, sensing, control and BEMS connection can be realized in coordination with SE8000!



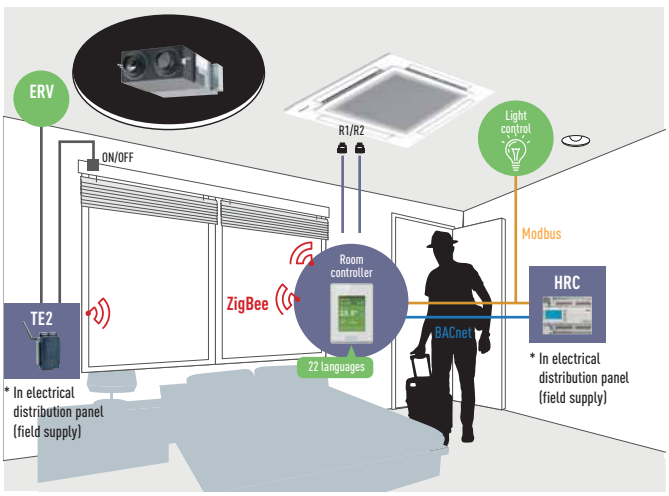

### 3. Key Cardless control.

The introduction of TE2 and HRC enables conventional wired keycards to be connected to the system so that it is possible to meet the specific requirements of various hotel and room types.




### 4. Other control

The introduction of TE2 and HRC enables the ON/OFF control of devices having Dry Contact input, such as ventilation, lighting and blinds.



## 2 Small and medium offices

**$CO_2$ sensors (option) and Humidity sensors.**

$CO_2$ sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.



## 3 Super markets

**Humidity sensors.**

Humidity sensors enable automatic dehumidification for the optimum IAQ regardless of climatic conditions. This creates an even more comfortable environment for customers, employees, and products themselves.



## Innovative and unrivalled advantages

**Colour and design to match office interiors.**

Colour combinations and design can be set to match different facilities.



**Customisation in 22 languages possible.**

The display can be customised to match the native languages of guests to enable smooth, stress-free communication for hospitality at its finest.



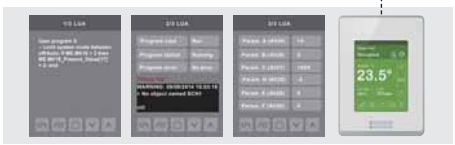
**Easy-to-understand error description.**

Error description during an emergency is easy to understand, enabling staff to respond quickly.



**Programmable logic.**

Full customisation of remote controller logic possible, and updating to match conditions.



## Smart connectivity devices



**SED-WDC-G-5045**
Door/window sensor.



**SED-MTH-G-5045**
Wall/ceiling motion/ temperature/humidity sensor.



**SED-CO2-G-5045**
$CO_2$ temperature/humidity sensor.



**SED-WLS-G-5045**
Water leakage sensor.






Schneider Electric brand - SE8000

* With optional VCM communication card.

## Features

- Up to 5-year battery life batteries included
- Battery life of $CO_2$ sensor up to 10-year.
- Battery level is a point
- Sensor points visible when SE8000 is integrated via BACnet MS/TP
- Sensor status and battery level visible when SE8150 is integrated via ZigBee® Pro
- Integration to BMS only recommended when each MPM is connected to Ethernet and set as a ZigBee® Coordinator node

# PANASONIC AC SMART CLOUD

With Panasonic AC Smart Cloud, have your business under control, and start saving!

PANASONIC AC SMART CLOUD



## Flexible solution and scalable solution

- Energy saving
- Zero downtime
- Site(s) management

Centralize control of your business premises, from wherever you are, 24/7/365. It doesn't matter how many sites you have, or where they are! The AC Smart Cloud system from Panasonic allows you to have complete control of all your installations, from your tablet or from your computer. In a simple click, all your units from several locations, receive status updates in real-time of all your installations, preventing breakdowns and optimizing costs.

### Flexible solution for your business.

Every time | Everywhere | Multiplatform | Internet browser

### Scalable solution for your business.

Small to large | 1 to multi sites | Upgrade features* | PACi / ECOi / ECO G

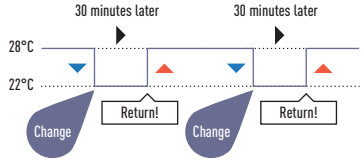
* Customized to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management.

## Panasonic AC Smart Cloud offers continuous improvement always thinking about users

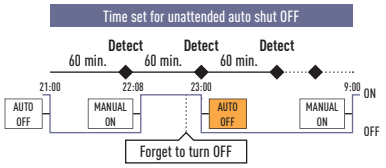
**New e-CUT function**

E-CUT functions are newly available in Panasonic AC Smart Cloud.
5 energy saving settings reduces automatically its energy consumption.

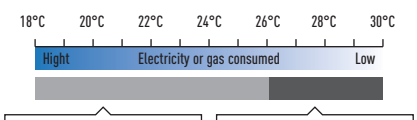
**1. Set temperature auto return.**
When you want to return to the set temperature after a certain time even if the temperature is changed.




**2. Unattended auto shut OFF.**
When you want to operate outside of a schedule but to monitor and stop automatically.



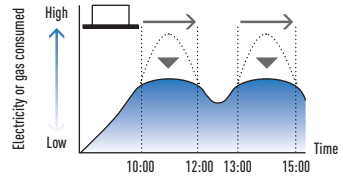

**3. Set temperature range limit.**
When you want to limit the temperatures that can be set.



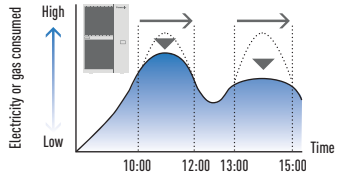

Reduced consumption of electricity or gas by over cooling.

Set temperature restricted to the range **between 26°C and 30°C.**

**4. Energy saving timer / Efficient operation setting.**
Specify time slots when you want operation capacity reduced.




**5. Demand / peak shaving settings/ Peak cut settings.**
Specify time slots when you want operation capacity of the outdoor units reduced.



## Key functions and uniqueness

**Multi site monitoring.**
- It doesn't matter how many sites you have, easy to manage, operate, compare sites, locations, rooms.



**Powerful statistics for energy savings.**
- Power consumption, capacity, efficiency level can be compared with different parameters (Yearly / monthly / weekly / daily bases)



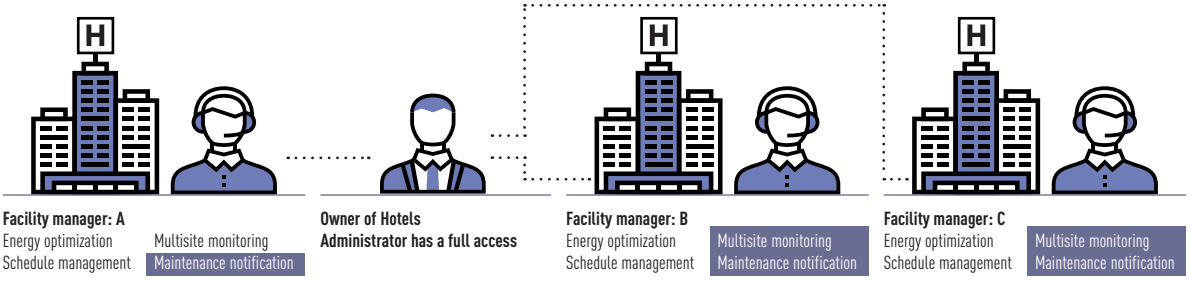
**Schedule setting.**
- Yearly / weekly / holiday timer setting as you want



**Maintenance notification.**
- Error notification by email and with floor layout
- Maintenance notification of ECOi / ECO G outdoor units
- Remote service checker function



**User customization [1].**
Site administrator can create users as desired and assign customized profiles.




## Main functions per user type

| Function / Main Tab | Sub-Tab | Basic type (Eg.: Owners, facility managers) | Professional type (Eg.: Installers, maintenance companies) |
|---|---|---|---|
| AC setting | I_U / O_U operation details | ✔ | ✔ |
| | Cloud adapter (CZ-CFUSCC1) details | ✔ | ✔ |
| | AC maintenance | | ✔ |
| | Map view | ✔ | ✔ |
| Energy saving function | NEW e-CUT | ✔ | ✔ |
| Schedule | Yearly, weekly schedule setting / view | ✔ | ✔ |
| Powerful statistics | Power consumption | ✔ | |
| | Capacity | ✔ | |
| | Efficiency ranking | ✔ | |

| Function / Main Tab | Sub-Tab | Basic type (Eg.: Owners, facility managers) | Professional type (Eg.: Installers, maintenance companies) |
|---|---|---|---|
| Maintenance function | Notification overview / details | ✔ | ✔ |
| | Maintenance settings | ✔ | ✔ |
| | Map view | ✔ | ✔ |
| | Remote service checker | | ✔ |
| User account [1] | New / update user registration | ✔ | |
| System setting | Distribution group overview / details | ✔ | |
| | Cut OFF request | ✔ | |
| | Map editor | | ✔ |

## One of our uniqueness is "Stable and secured communication package"

- Connectivity is included in the service. Customers do not have to take time to find and prepare suitable connectivity.
- With an all inclusive service offering, the customer has peace of mind and a one stop shop for all AC Smart Cloud issues they may face including connectivity

This reduces installation time, requiring no integration with existing IT network infrastructure.

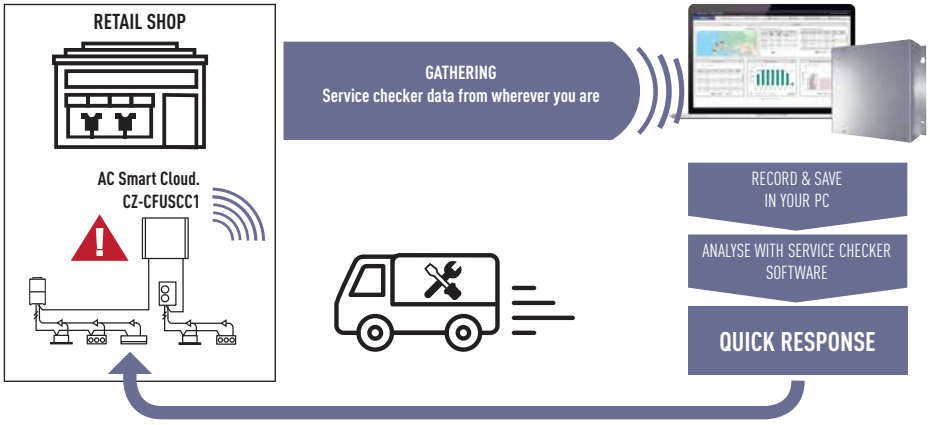



## Remote service checker function

For professional profile

**Zero down time**
- Quick analysis & response
- Time & Cost saving for service maintenance task

**Recording service checker parameters from wherever you are!**
- Data duration: Max. 120 minutes
- Data frequency: 10 – 90 seconds
- Mode selection: With test run or Without test run
- Count down schedule setting available




## Panasonic AC Smart Cloud parts lists

* Cloud service fee is additionally required. Please contact an authorized Panasonic dealer.

| | |
|---|---|
| CZ-CFUSCC1 | AC Smart Cloud communication adaptor. Up to 128 groups. 128 units control |
| PAW-MVNOAC-V | 3G communication package (SIM Card included). V, K: Depending on countries [1] |
| PAW-MVNOAC-K | |

1) Please contact an authorized Panasonic dealer.

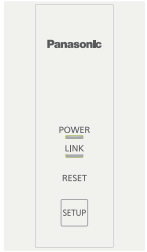
# NEW COMMERCIAL WLAN ADAPTOR

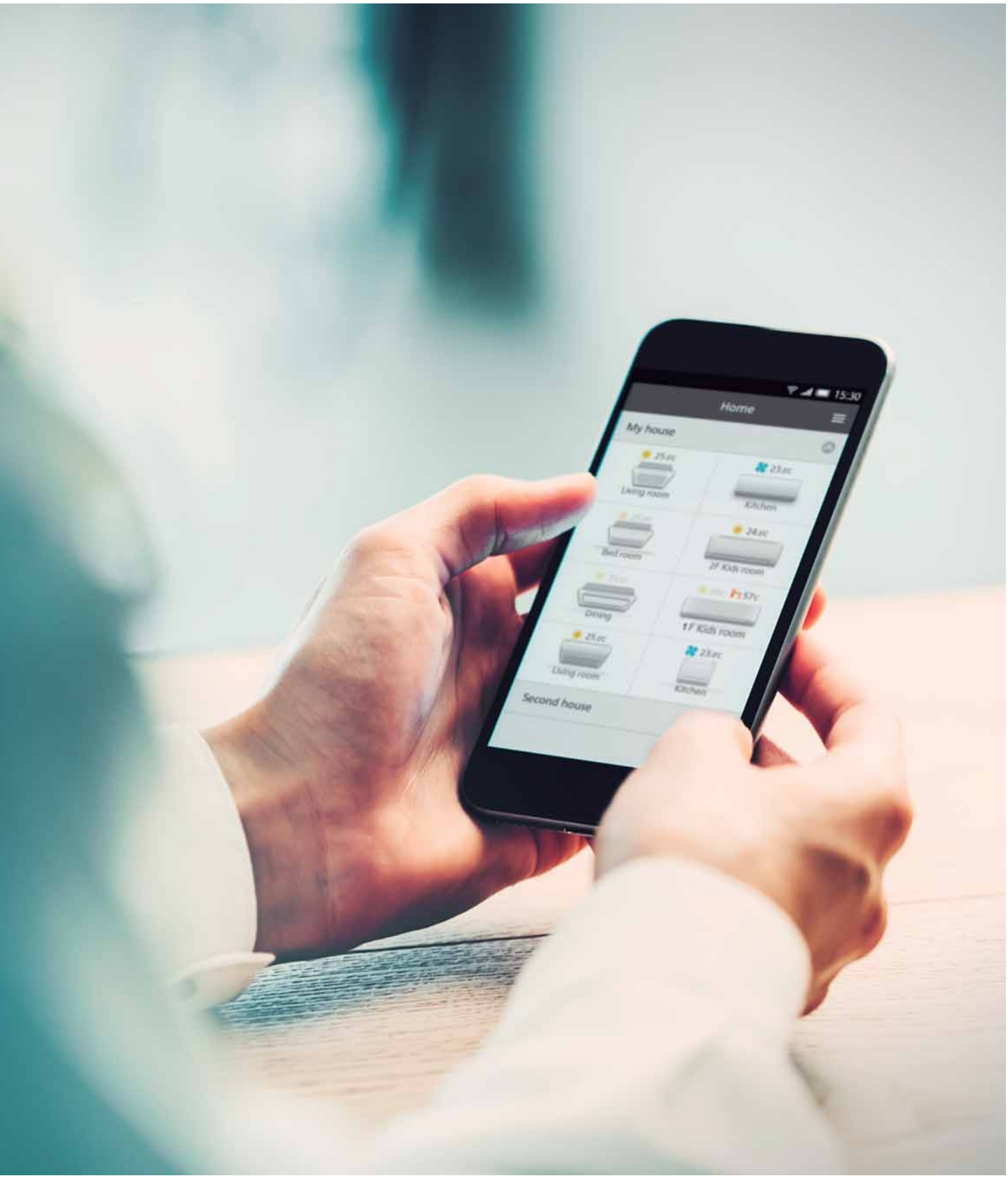
NEW 2019

Panasonic

Download on the App Store

ANDROID APP ON Google play



New Panasonic CZ-CAPWFC1 interface adaptor, allows connection of one or a group of indoor units to be managed by the Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.

## Advanced smartphone control

Control PACi, ECOi and ECO G units from wherever and whenever with your smartphone, by using Panasonic Comfort Cloud App and Commercial WLAN Adaptor. This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

### 1 From 1 to 200 units

User can control up to 10 different sites, with up to 20 units / groups per site.

### 2 1 indoor or 1 group

One simple WLAN adaptor CZ-CAPWFC1 can be connected to 1 indoor or to a group of indoors (maximum 8 indoors).

### 3 Multi user

The Panasonic Comfort Cloud App allows multi-user access control. Restrict user access to specific units.

### 4 Easy scheduling

Complex weekly scheduling made simple. Not only for one units, but across multiple sites and from a smartphone.

### 5 Energy monitor

See the estimated power consumption and compare with other periods to see how energy consumption can be reduced even more. Check list of units that provides consumption*.

* Function available depending on the model.

### 6 Error codes

Error code notification through the App, provides early notification and allows for faster repair.

## Commercial WLAN Adaptor for internet control - CZ-CAPWFC1

Commercial WLAN Adaptor wiring length is 1,9m and connects to indoor unit thru T10 connector and R1/R2 terminal connectors.




| | |
|---|---|
| Input Voltage | DC 12V (supplied from T10 connector) |
| Power Consumption | Maximum 2,4W |
| Size (H x W x D) | 120 x 70 x 25mm |
| Weight | 190g (including communications lines) |
| Interface | 1 x Wireless LAN |

| | |
|---|---|
| Wireless LAN Standard | IEEE 802,11 b/g/n |
| Frequency Range | 2,4GHz band |
| Operation range | 0 ~ 55°C, 20 ~ 80RH% |
| Connectable indoor unit | 1 unit |
| Length of communication line | 1,9m (included in the shipment) |

## Cloud control is available for all indoor units with P-link

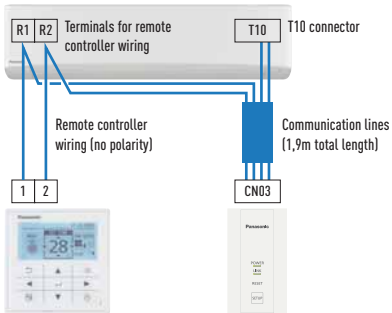
Compatible type: Model code starting with "S-" except S-80/125MW1E5.

Incompatible type: Model code starting with "PAW-", "FY-" and S-80/125MW1E5.

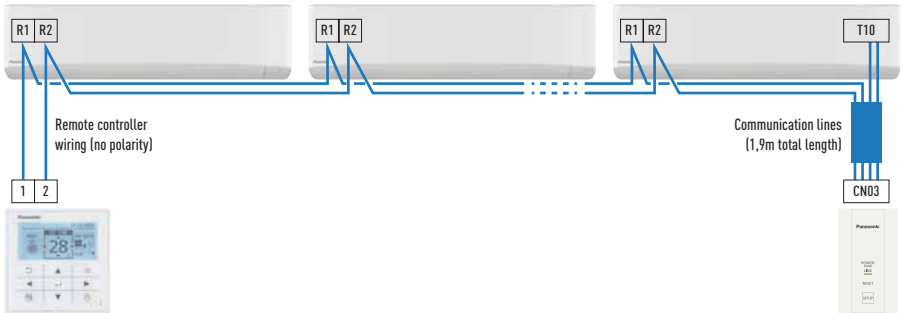
## Basic wiring diagram

If there is one indoor unit or if there are multiple indoor units, connect one WLAN adaptor and one remote controller. A remote controller must be connected and it should be set as the "main unit" in the main-sub remote controller settings.

**Example when there is 1 indoor unit.**

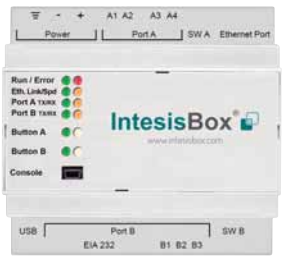



**Example when there are multiple indoor units.**



# NEW BMS INTERFACE WITH P-LINK

NEW 2019



New BMS interface with Panasonic communication bus helps you to get significant savings.
In addition to reducing the time of configuration and installation, the potential mistakes can be avoided.
Easy to use and reliable interfaces for a straightforward integration.

KNX
Modbus®
BACnet™

## 1 Direct connection to P-Communication bus

- No need additional gateway (CZ-CFUNC2)
- Significant 50% of cost saving for BMS interface*
- Reduce time of configuration and avoid potential mistakes

* In the case of PAW-AC2-BAC-16P by Panasonic calculation.

## 2 Upgraded specifications and easy configuration

- Base PCB board with MCU, Ethernet, RS485, RS232 & USB
- Configuration by IP or USB
- New single configuration tool for all models (IntesisBox MAPS)
- Modular expansion PCBs (KNX, RS485, DALI, MBUS, LON, ANYBUS)

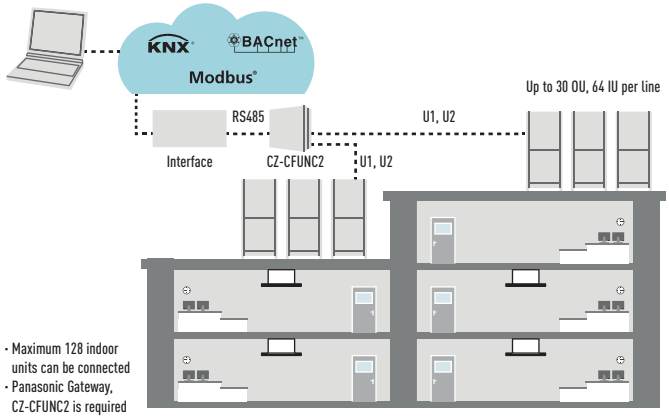
## 3 BTL certified for BACnet

- BACnet: Version 14 and BTL certified

## Direct connection to P-Communication bus

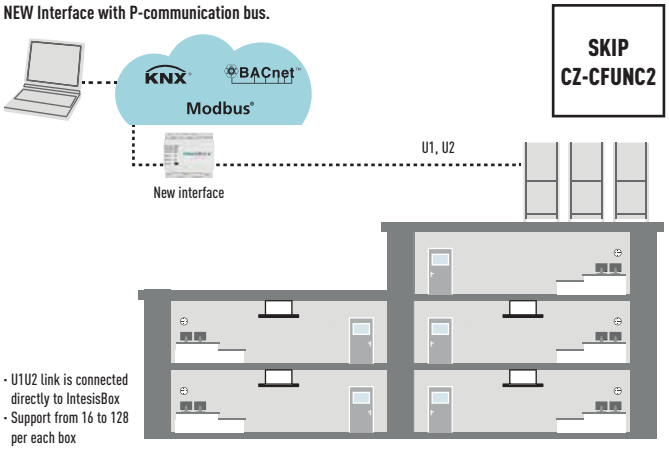
New interface can provide faster, cheaper, easier solution in your projects!

**Conventional interface.**




- Maximum 128 indoor units can be connected
- Panasonic Gateway, CZ-CFUNC2 is required

**NEW Interface with P-communication bus.**




- U1U2 link is connected directly to IntesisBox
- Support from 16 to 128 per each box

## Key upgrade

- Base PCB board with MCU, Ethernet, RS485, RS232 and USB
- Modular expansion PCBs (KNX, RS485, DALI, MBUS, LON, ANYBUS)
- Frontal PCB with all Leds buttons and USB console Port
- New single configuration tool for all models (IntesisBox MAPS)
- Recovery of current configuration project working
- USB port will allow to store logs without PC
- Configuration by IP or USB (old generation RS232)




| Model for BACnet | Maximum number of indoor units connected |
|---|---|
| PAW-AC2-BAC-16P | 16 indoor units |
| PAW-AC2-BAC-64P | 64 indoor units |
| PAW-AC2-BAC-128P | 128 indoor units |
| **Model for Modbus** | **Maximum number of indoor units connected** |
| PAW-AC2-MBS-16P | 16 indoor units |
| PAW-AC2-MBS-64P | 64 indoor units |
| PAW-AC2-MBS-128P | 128 indoor units |
| **Model for KNX** | **Maximum number of indoor units connected** |
| PAW-AC2-KNX-16P | 16 indoor units |
| PAW-AC2-KNX-64P | 64 indoor units |

| Version | Connectable indoor units | Connectable outdoor units | Nr. of P- Communication bus Port |
|---|---|---|---|
| **16** | 1-16 | 1-16 | 1 |
| **64** | 1-64 | 1-30 | 1 |
| **128** | 128 (1-64/P- Communication bus Port) | 60 (1-30/P- Communication bus Port) | 2 |

# REMOTE CONTROLLER WITH ECONAVI



Easy to use, attractive, clear design, with new demand control functions and energy consumption display! This useful feature makes this remote controller unique!

## Design

The CZ-RTC5B wired remote controller is ideal for integration into the most demanding interior architectures.
The touch panel features a very sleek and easy to use display, which with its compact display is only 120 x 120 x 16mm.

## Key Functions

- Easy setup of the timer and settings of the indoor unit
- Energy consumption display (for all R32 PACi line-up)
- Limitation of the energy consumption (Demand control) by timer.

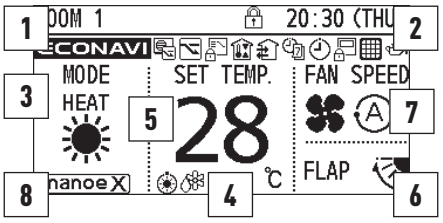
## Display of information

The information is mainly based on pictograms to ensure easy understanding. The minimal amount of text is available in 6 languages (English / German / French / Spanish / Italian / Polish).
The screen is back lit to enable reading even during the night.

**Easy Access to the menus.**
With the new pictograms, the navigation, the selection and the settings are simple and easy to follow.

## Basic function (Operation display & indication)

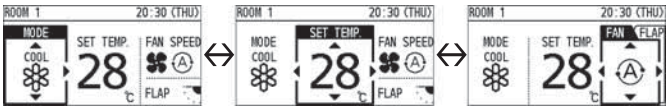
All functions are easily available on the remote controller.
• OFF/ON timer • Weekly timer • Quiet operation • Remote controller sensor • Operation prohibit • Filter sign • Energy saving • Centralized control indication • Mode change prohibit • Automatic temperature return • Temperature range limitation • OFF remind • Schedule demand control • Ventilation • Out Function




1. Name of the room (Max.16 characters)
2. Time & Day of the week
3. Mode: Hot / Cool / Dry / Fan Auto
4. Status: Heating stand-by / Defrost operation / Stand-by (GHP system)
5. Set temperature
6. Flap setting
7. Fan speed: L-H / Auto
8. nanoe™ X setting

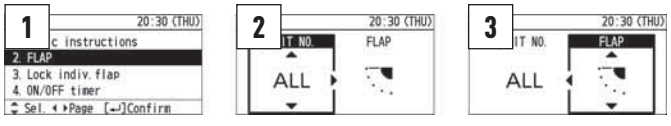
## Easy operation and quick access to all menus

1. Set temperature will be selected, when any arrow button is touched
2. Select the item (Mode or Fan speed) by left/right ◄► key
3. Change the setting by up/down ▲▼ key



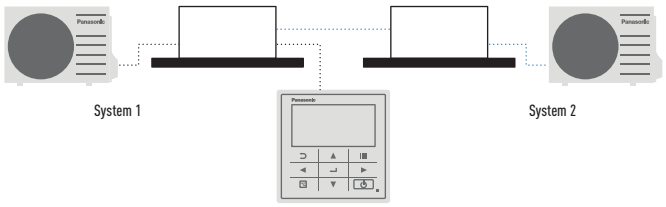

## Example of easy access to the functions: Air direction setting

1. Select "Air direction" and press "Enter" key
2. Select the unit number by up/down ▲▼ key
3. Select the flap position by up/down ▲▼ key
4. Press "Return" key to go back the Menu display




## Backup control by using CZ-RTC5B

Group wiring of 2 systems of PACi can do auto individual control: Rotation operation, Backup operation and Support operation.




## Functions available on the CZ-RTC5B

| Control item | Controllability | Indoor Units | | |
|---|---|---|---|---|
| | | PACi Standard | PACi Elite | All VRF |
| Basic Operation | Operation, Mode, Temperature setting, Airflow volume, Airflow direction | ✔ | ✔ | ✔ |
| Timer function | Time display | ✔ | ✔ | ✔ |
| | Easy ON/OFF timer | ✔ | ✔ | ✔ |
| | Weekly Program timer | ✔ | ✔ | ✔ |
| Energy saving | Outing function | ✔ | ✔ | ✔ |
| | Temperature auto return | ✔ | ✔ | ✔ |
| | Temperature setting range limitation | ✔ | ✔ | ✔ |
| | OFF remind | ✔ | ✔ | ✔ |
| | Energy saving mode | ✔ | ✔ | ✔ |
| | Schedule demand control | ✔ 1) | ✔ | ✔ |
| | Energy monitoring - R32 | ✔ | ✔ | – |
| Maintenance | System failure information | ✔ | ✔ | ✔ |
| | Service contact registration | ✔ | ✔ | ✔ |
| | Filter sign (rest time display) & Reset | ✔ | ✔ | ✔ |
| | Auto-address, Test run | ✔ | ✔ | ✔ |
| | Sensor value monitor | ✔ | ✔ | ✔ |
| | Simple / Detail setting mode | ✔ | ✔ | ✔ |
| Others | Key lock | ✔ | ✔ | ✔ |
| | Ventilation fan control | ✔ | ✔ | ✔ |
| | Display contrast adjustment | ✔ | ✔ | ✔ |
| | Remote controller sensor | ✔ | ✔ | ✔ |
| | Quiet operation mode | ✔ 1) | ✔ | – |
| | Prohibit setting control from Central controller | ✔ | ✔ | ✔ |

All specifications subject to change without notice. 1) PACi Standard R410A line up is not available.

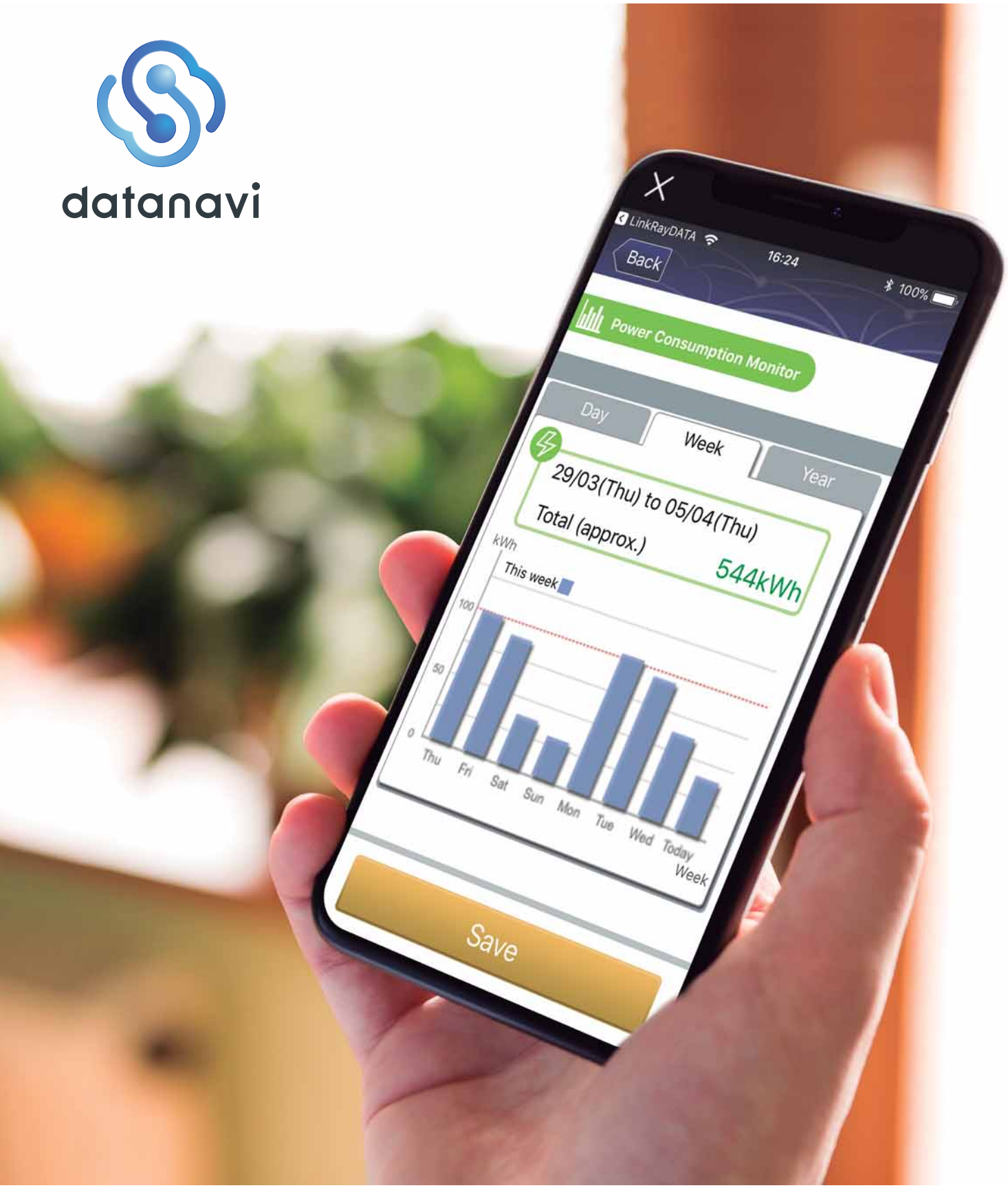
# DATANAVI

FAST AND INTUITIVE

EASY ACCESS TO MANUAL DATABASE

ACCURATE SERVICE DATA ON YOUR SMARTPHONE

datanavi

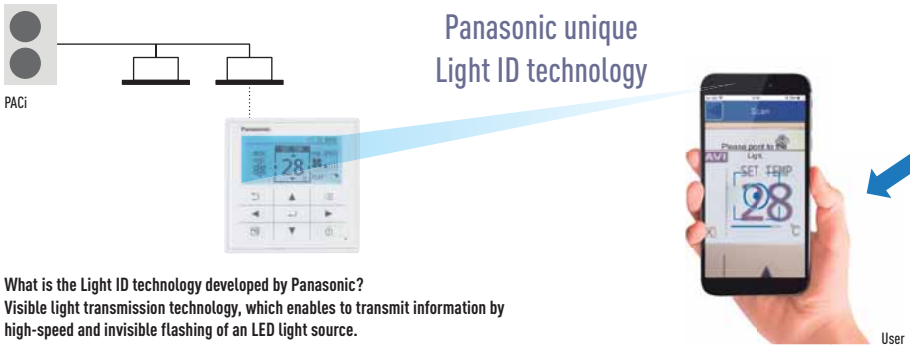


Datanavi, a new way to connect.
Simple and easy support tool with your smartphone.

datanavi

## Overview of datanavi system

Just holding up your smartphone to the LED display on a remote controller (CZ-RTC5B) to receive useful AC system information super fast by Panasonic Light ID Technology. Datanavi also connects to Panasonic Cloud Server for the quick view of manuals, saving data received by Light ID.




**What is the Light ID technology developed by Panasonic?**
**Visible light transmission technology, which enables to transmit information by high-speed and invisible flashing of an LED light source.**

## Key Functions

- Scan & Save AC system info
- Easy access to manual database
- Commissioning, F gas check data history

## User / Administrator (person in charge of AC) functions

- **Fast and intuitive.** Regular operation data, Energy consumption data display
- **Easy access to data base.** Getting manuals related on demand
- **No idea what to do when an error happens?** You can share error information and contact service easily



## Installer / Service company functions

- **Getting technical data depends on your need**
  Service manual. Q & A list. Test run information
- **Acurate error information**



**Regular operation**




**Energy management**




**Malfunction notice**




**Operating manual**




**Test run info**




- Simple F-gas regulation check list
- Repair speed check list

**Service data**




* User interface image may be updated without notification.

**Download free apps, try datanavi!**
**2 free apps are necessary to use datanavi.**

Download on the App Store
Google play

# ECONAVI SENSOR



The all Econavi Sensor detects presence in the room, and quietly adapts the PACi or VRF air conditioning system in order to improve comfort and energy savings.

- Detects human activity and adjusts temperature by 2 degrees (up or down) to optimize comfort and efficiency
- If there is no activity detected for a set time, the Econavi will stop the unit or move to a new temperature previously set
- The Econavi device is installed independently of the indoor unit, and is located in the area best suited for detection

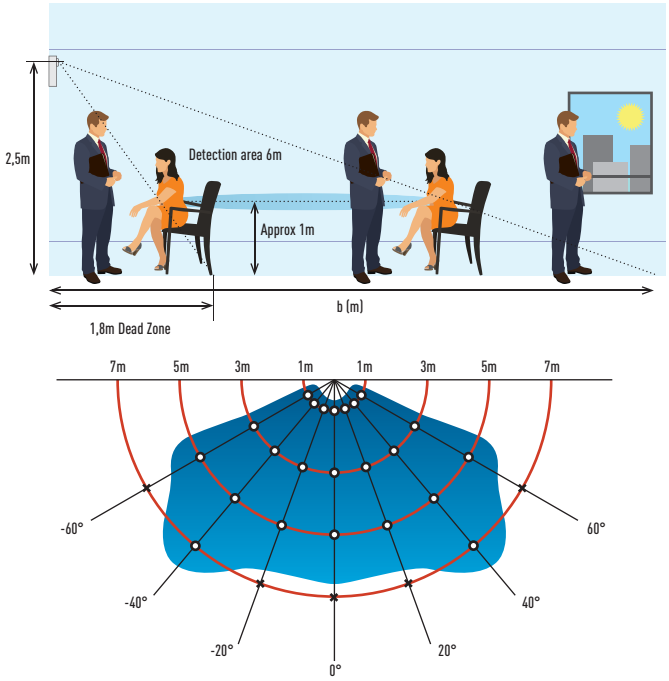
## Applications

Saving Energy for Offices: if the air conditioning is left on after the last employee leaves the office, Econavi will automatically react, reducing or stopping the system.
Increased comfort in hotel rooms: when presence is detected in the room, the temperature is automatically adjusted to achieve best comfort.

## Key points

- Compatible with Cassette, Wall Mounted, Hide Away and Ceiling
- Improves efficiency
- Better Comfort
- Can be installed in the best place of the room for detection purposes

## Sensor location image




Human detection area (2,5m height angle 30°)

Providing outstanding energy-saving performance, Panasonic's Inverter system can be connected to Econavi to detect when energy is being wasted. Econavi senses the presence or absence of people and the level of activity in each area of an office. When unnecessary heating or cooling is detected, indoor units are individually controlled to match office conditions for energy-saving operation.

**Detection of the level of activity enables precise power saving.**
Presence or absence of people at their desks and the level of activity in the office are detected in real time. Set temperature is automatically adjusted to optimise the lower power consumption.




**Remote Econavi sensor allows optimum energy operation.**
Pillars, walls, cabinets and other fittings obstruct the sensor, reducing the area of detection and lowering the energy-saving effect. Taking into consideration blind spots, Panasonic enables the optimum layout for sensors in any office.



**In the morning.**
Thorough cooling when there is a high level of activity

**In the afternoon.**
Reduced cooling when there are fewer people

**At night.**
Automatic Thermo OFF depending on conditions at the end of the day

# INTELLIGENT CONTROLLER



This controller is the smart solution for your advanced requirement in buildings.

## Intuitive operation

The screens used for operations all follow a common pattern, with the screens being easy to read and easy to use.

- Enlarged screen (10,4 inch) with colour LDC
- Smartphone-like operations (Swiping, flicking)

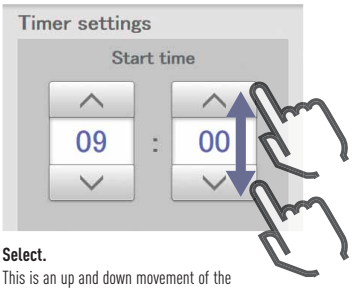
**Large screen display. Enlarged by 60%.**




**Easy Swipe or flick operation.**



**Swipe.**
This is an operation where the finger is slid in a direction (up or down) on the touch panel. This is used to scroll slowly.




**Select.**
This is an up and down movement of the finger touching the screen, used to pick settings in elements such as spin boxes.

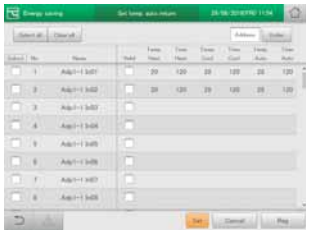


**Pull out.**
This is an operation where the finger on the touch panel is flicked in a direction (up or down). This is used to scroll quickly.

## Enhanced functions for energy saving as standards

- Set temperature auto return settings, Auto shut OFF, Set temperature range limit settings
- Demand control function

**Screen of Set temperature auto return setting.**



**Auto shut OFF.**



**Screen of Outdoor demand control.**



- Outdoor demand input and timer settings possible
- Indoor can be set at ±1°C/ ±2°C or thermostat OFF
- Indoor units controlled in sequence at 10-minute intervals

## Energy Visualization

- Energy-saving plans are supported with graph display function
- Displays electricity & gas usage distribution

**Screen of graph display.**





Useful parameters are shown for your better energy saving.
Ex.) Bar graph:

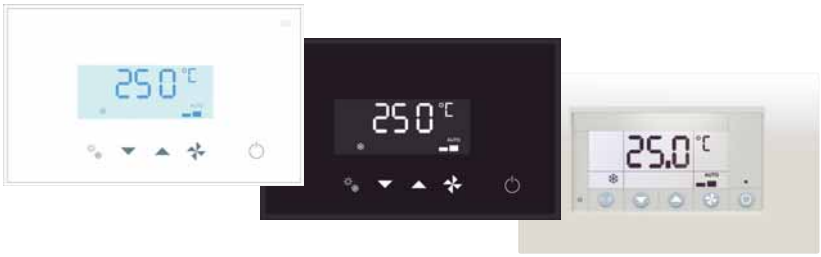
Indoor unit: Total operating time, thermostat ON operation time (Min.)
Amount used (electricity, gas)
Electricity or gas charges
Outdoor unit: Outdoor unit operation cycles (# cycles)
Engine time in operation (Hrs.)
Cumulative Inverter power output
Cumulative PV power output

Pulse value selection per different data intervals 1 hour/1 day/ 1 month compared with last year.

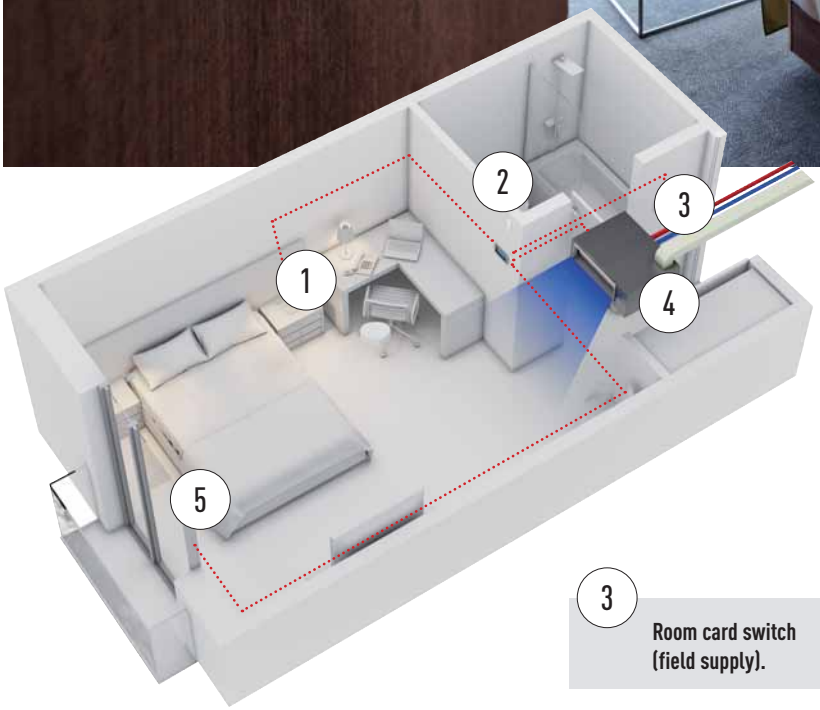
## Main function

| | |
|---|---|
| Gesture function (Flick, Swipe) | ✔ |
| Graph display (Trends, comparisons) | ✔ |
| Web functions (Max. 64 users) | ✔ |
| Recipient setting for warning email | ✔ (Maximum 8) |
| Automatic return to setting temperature | ✔ |
| Limitation of setting temperature range | ✔ |
| Left-on prevention | ✔ |
| Quiet operation of outdoor unit | ✔ |
| Occupant sensor linkage | ✔ |
| Demand function | ✔ |
| Charge calculation | ✔ |
| Log display | ✔<br>Warning 10.000 items<br>Status change 50.000 items |
| Linked control<br>Event definition 50 events, Input: 32, Output: 32 | ✔ |
| Under maintenance (Under inspection registration) | ✔ |

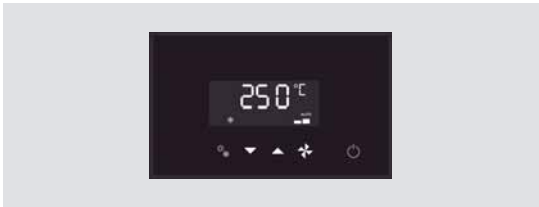
# NEW CONTROLLER FOR HOTEL APPLICATION







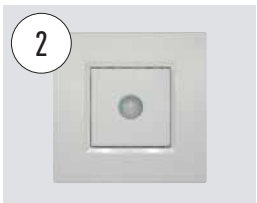

3 **Room card switch (field supply).**



**Controller to integrate all room hotel needs in one device.**
Card switch. Heating and cooling control. Light control. Window control. Possible to connect to Modbus.



1 **Lighting control.**



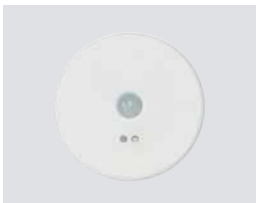
2 **Wall sensor PAW-WMS-AC (-DC).**



4 **Indoor unit. Variable static pressure hide away.**



5 **Window contact PAW-DWC.**



**Ceiling motion sensor PAW-CMS-AC (-DC).**

Innovative line up of room controllers specially designed for hotel applications. With a modern cosmetic that match room interiors and simple operation for hotel guests.

- Easy to install
- Cost effective installation as all electrical cable are centralized on this remote: The lighting, card contact, motion detector, window contact and the air conditioning are controlled
- Architect inspired attractive design with 2 colors: black or white
- Stand-Alone and Modbus

**Energy saving functions included on the device:** Turns OFF air conditioning and lighting when room is unoccupied. Disables air conditioning when window is open. Maximum/minimum setpoint temperature configurable.

**Easy remote controller:** The hotel guest will have access to limited functions to control the air conditioning: ON/OFF, Temperature and Fan speed.

**Easy set up:** Stand-Alone model with easy configuration menu to access all parameters. A pre-define scenario can be uploaded on the remote controller connected to a computer to make installation on site plug and play (only on the Modbus models).

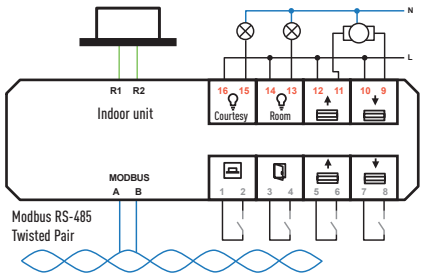
**New NFC fast set up:** with the new Touch Display Control and Touch Room Controller setting are quicker than ever. Just touching smartphone with NFC capability the settings will be saved. This function is also possible even when the control is not wired. Giving flexibility to save the setting even before installation.

| Type | Model | Colors | Digital inputs | Digital output | BMS | Inst. set up | T. Sensor |
|---|---|---|---|---|---|---|---|
| Touch display controller | PAW-RE2D4-WH | White | 2 | | | NFC | Built-in |
| | PAW-RE2D4-BK | Black | 2 | | | NFC | Built-in |
| Touch room controller | PAW-RE2C4-MOD-WH | White | 4 | 4 | Modbus | NFC | Built-in |
| | PAW-RE2C4-MOD-BK | Black | 4 | 4 | Modbus | NFC | Built-in |
| Room controller | PAW-RE2C3-WH-1 | White | 4 | 4 | | Buttons | Built-in |
| | PAW-RE2C3-MOD-WH-1 | White | 4 | 4 | Modbus | Buttons | Built-in |

## Room Controller: 4 Digital Inputs & 4 Digital Output

Room controller offers flexibility and easy installation thanks to 4 preconfigured options. This is available in both Stand Alone and Modbus type. Modbus references: PAW-RE2C4-MOD-WH, PAW-RE2C4-MOD-BK, PAW-RE2C3-MOD-WH-1. Stand Alone references: PAW-RE2C3-WH-1.

**Wiring configuration example for Option 2 in Modbus type.**

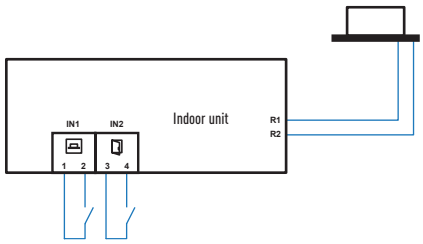



| | 4 options available I/O configurations: Inputs | | | | Available I/O Configurations: Outputs | | | |
|---|---|---|---|---|---|---|---|---|
| Configurations | Digital 1-2 | Digital 3-4 | Digital 5-6 | Analog 7-8 | Relay 15-16 | Relay 13-14 | Relay 11-12 | Relay 9-10 |
| Option 1 | Card | Window | Lighting | Temperature | Courtesy | Lighting | Not used | Valve actuator |
| Option 2 | Card | Window | Blinds up | Blinds down | Courtesy | Lighting | Blinds up | Blinds down |
| Option 3 | Motion sensor | Window | Door contact | Temperature | Courtesy | Lighting | Not used | Valve actuator |
| Option 4 | Lighting | Window | Blinds up | Blinds down | Not used | Lighting | Blinds up | Blinds down |

## Display: 2 Digital Inputs

Display control allows to handle 2 inputs to perform most common operation in room hotels. References: PAW-RE2D4-WH, PAW-RE2D4-BK.

**Wiring example for Display Controller.**




| | 3 options available: Inputs | |
|---|---|---|
| Configurations | IN1 (1-2) | IN2 (3-4) |
| Option 1 | Card | Window |
| Option 2 | Motion sensor | Window |
| Option 3 | Motion sensor | Door contact |

| Hotel Room Controller | |
|---|---|
| PAW-RE2C4-MOD-WH | Modbus RS-485 Touch room controller with I/O, White |
| PAW-RE2C4-MOD-BK | Modbus RS-485 Touch room controller with I/O, Black |
| PAW-RE2C3-MOD-WH-1 | Modbus RS-485 room controller with I/O, White |
| PAW-RE2C3-WH-1 | Stand –Alone room controller with I/O, White |
| PAW-RE2D4-WH | Touch display control with 2 Inputs, White |
| PAW-RE2D4-BK | Touch display control with 2 Inputs, Black |
| **Accessories Sensors** | |
| PAW-WMS-DC | Wall silent motion sensor 24V |
| PAW-WMS-AC | Wall silent motion sensor AC |
| PAW-CMS-DC | Ceiling silent motion sensor 24V |
| PAW-CMS-AC | Ceiling silent motion sensor AC |
| PAW-24DC | Power supply 24V |
| PAW-DWC | Door or window contact |

# CONTROL AND CONNECTIVITY

## Centralized Control Systems

### BMS System. PC Base




**CZ-CSWKC2**
P-AIMS. Basic Software
Up to 1024 groups. Controls 1024 units.

### Connection with 3rd Party Controller



**CZ-CAPDC2**
Seri-Para I/O unit for outdoor unit.
Up to 4 outdoor units.



**CZ-CAPC3**
ON/OFF control for external devices such as ERV.
Controls 1 unit.



**CZ-CAPBC2**
Mini Seri-Para I/O Unit 0 - 10V.
Controls 1 indoor unit or a group of 8 indoor units.



**CZ-CFUNC2**
Communication Adaptor.
Up to 128 groups. Controls 128 units.

### AC Smart Cloud



**CZ-CFUSCC1**
Cloud internet control.
Up to 128 groups. Controls 128 units.

## Domestic integration to P-Link - CZ-CAPRA1

Can connect all ranges to P-Link. Full control is now possible.

**Integrates any unit in big system control**

- TKEA / PKEA Server room integration
- Small offices with Domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)

**Centralized Control Systems: 64 Indoor Units**

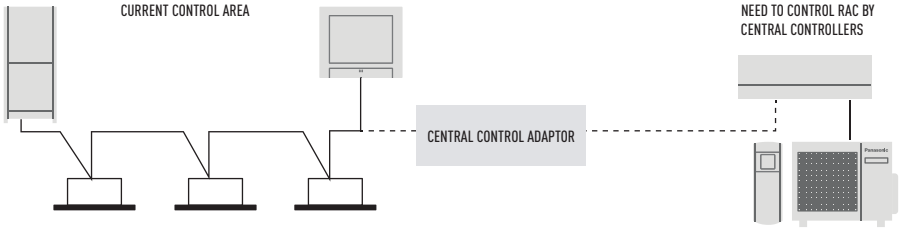


**Intelligent Controller / Web Server: 256 Indoor Units**



**P-AIMS: 1024 Indoor Units**




Current system for PACi / VRF. Central controller can connect to P-Link line to control units directly.

→

RAC units cannot connect directly to P-Link to be managed by Central Controllers.

→

It's necessary to have interface between P-Link and RAC protocol to cover basic operating items.

| Basic operation items | |
|---|---|
| ON/OFF | ✔ |
| Mode select | ✔ |
| Temperature setting | ✔ |
| Fan speed | ✔ |
| Flap setting | ✔ |
| Remote controller prohibit | ✔ |

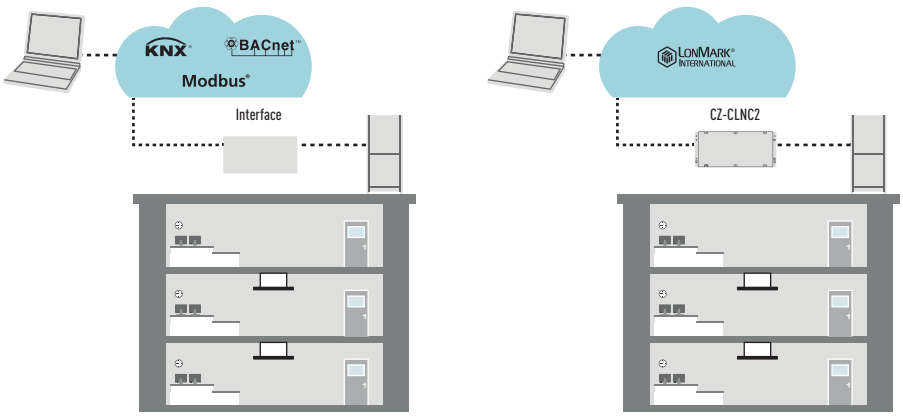
| External input | |
|---|---|
| ON/OFF control signal | ✔ |
| Abnormal stop signal | ✔ |
| **External output for Relay** [1] | |
| Operation status (ON/OFF) | ✔ |
| Alarm status output | ✔ |

1) Because current CN-CNT connector can not provide the power for external output relay, additional Input power for external relay is necessary.

## Easy connection to KNX, Modbus, LonWorks and BACnet

Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.

**For more information, contact Panasonic.**



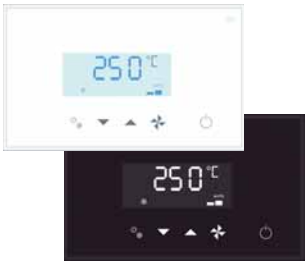
| | | | Econavi control | Built-in thermostat | Indoor units which can be controlled | Use limitations | Function ON/OFF | Mode setting | Fan speed setting | Temperature setting | Air flow direction | Permit/Prohibit switching | Weekly program | BMS protocol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Individual Controllers** | | | | | | | | | | | | | | |
| Touch room controller for Hotel with Dry Contacts |  | PAW-RE2C4-MOD-WH<br>PAW-RE2C4-MOD-BK<br><br>WH: White, BK: Black | – | ✔ | 1 indoor unit | – | ✔ | ✔ | ✔ | ✔ | – | ✔ | – | Modbus + 4 Digital I/O Signals |
| Room controller for Hotel with Dry Contacts |  | PAW-RE2C3-WH-1<br>PAW-RE2C3-MOD-WH-1<br><br>White | – | ✔ | 1 indoor unit | – | ✔ | ✔ | ✔ | ✔ | – | ✔ | – | Stand Alone or Modbus + 4 Digital I/O Signals |
| Touch display control for Hotel with Dry Contacts |  | PAW-RE2D4-WH<br>PAW-RE2D4-BK<br><br>WH: White, BK: Black | – | ✔ | 1 indoor unit | – | ✔ | ✔ | ✔ | ✔ | – | ✔ | – | Stand Alone + 2 Digital Inputs |
| Design wired remote controller with datanavi |  | CZ-RTC5B | ✔ | ✔ | 1 group, 8 units | · Up to 2 controllers can be connected per group | ✔ | ✔ | ✔ | ✔ | ✔ | – | ✔ | – |
| Wired remote controller |  | CZ-RTC2 (for Floor Standing (MP1) indoor units) | – | ✔ | 1 group, 8 units | · Up to 2 controllers can be connected per group | ✔ | ✔ | ✔ | ✔ | ✔ | – | ✔ | – |
| Infrared remote controller |  | CZ-RWS3 + CZ-RWRU3 /<br>CZ-RWS3 /<br>CZ-RWS3 + CZ-RWRL3 /<br>CZ-RWS3 + CZ-RWRD3 /<br>CZ-RWS3 + CZ-RWRT3 /<br>CZ-RWS3 + CZ-RWRC3 | – | ✔ | 1 group, 8 units | · Up to 2 controllers can be connected per group | ✔ | ✔ | ✔ | ✔ | ✔ [1] | – | – | – |
| Quick and easy operation. Simplified remote controller |  | CZ-RE2C2 | – | ✔ | 1 group, 8 units | · CZ-RE2C2: up to 2 controllers can be connected per group | ✔ | ✔ | ✔ | ✔ | ✔ [1] | – | – | – |
| **Centralized Controllers** | | | | | | | | | | | | | | |
| Central controller with weekly timer |  | CZ-64ESMC3 | ✔ | – | 64 groups, maximum 64 units | · Up to 10 controllers, can be connected to one system<br>· Main unit/sub unit (1 main unit + 1 sub unit) connection is possible<br>· Use without remote controller is possible | ✔ | ✔ | ✔ | ✔ | ✔ [1] | ✔ | ✔ | – |
| Only ON/OFF operation from center station. ON/OFF Controller |  | CZ-ANC3 | – | – | 16 groups, maximum 64 units | · Up to 8 controllers (4 main units + 4 sub units) can be connected to one system<br>· Use without remote controller is impossible | ✔ | – | – | – | – | ✔ | – | – |
| Simplified load distribution ratio (LDR) for each tenant. Intelligent Controller (Touch screen panel) |  | CZ-256ESMC3 | ✔ | – | Main unit: 128. Up to 256 units can be expanded | · Communication adaptor CZ-CFUNC2 is necessary for connection with more than 128 units | ✔ | ✔ | ✔ | ✔ | ✔ [1] | ✔ | ✔ | – |

1. Setting is not possible when a remote controller unit is present (use the remote controller for setting). * All specifications subject to change without notice.

# INDIVIDUAL CONTROLLERS

## Room controller for Hotel rooms





**PAW-RE2C3-WH-1 // PAW-RE2C3-MOD-WH-1 // PAW-RE2C4-MOD-WH // PAW-RE2C4-MOD-BK**

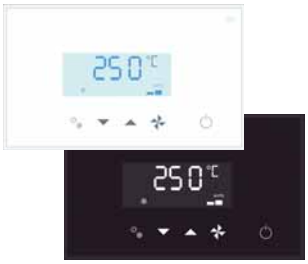
- Easy to install
- Cost effective installation as all electrical cable are centralized on this remote
- Architect inspired attractive design
- Direct connection to the Indoor unit with most of the functions of the indoor unit
- 2 options available: Stand-Alone and Modbus communication
- Colours: WH: White. BK: Black
- Room controller: 4 Digital Inputs and 4 Digital Outputs

**From this remote controller.**
The lighting, card contact, motion detector, window contact and the air conditioning are controlled.

**Energy saving functions included on the device.**
- Turns OFF air conditioning and lighting when room is unoccupied
- Disables air conditioning when window is open
- Maximum/minimum setpoint temperature configurable

**Fast and simple set up.**
Set up is simple and easy for room controllers. But it is extremely easy and quick with Touch models, which can be set up by using smartphone with NFC technology, even when control is not yet installed / powered (for PAW-RE2C4-MOD-WH // PAW-RE2C4-MOD-BK).

## Display control for Hotel rooms



**PAW-RE2D4-WH // PAW-RE2D4-BK**

- Easy to install
- Cost effective installation as all electrical cable are centralized on this remote
- Architect inspired attractive design
- Direct connection to the Indoor unit with most of the functions of the indoor unit
- 2 options available: Stand-Alone and Modbus communication
- Colours: WH: White. BK: Black
- Basic hotel function: 2 Digital Inputs

**From this remote controller.**
The card contact, motion detector, window contact and the air conditioning are controlled.

**Energy saving functions included on the device.**
- Disables air conditioning when window is open
- Maximum/minimum setpoint temperature configurable

**Fast and simple set up.**
Set up with smartphone with NFC technology, even when control is not yet installed/powered.

## Design wired remote controller

datanavi ECONAVI



**CZ-RTC5B**

- Power consumption monitor (only for PACi)
- Flat face design & Touch sensor switch for stylish design and operating usability
- New functions such as for Energy saving & monitoring and for Service use are available on the Full dot LCD (3,5˝ display)
- Improved illumination
- White LED backlit
- Blink when alarm occurs

**datanavi**

- Scan & Save AC system info
- Easy access to manual database
- Commissioning, F gas check data history

* Panasonic App is required on your smartphone.

**Basic Operation.**
- Operation • Mode • Temperature setting • Airflow volume
- Airflow direction

**Timer function.**
- Outing function • Weekly Program timer • Easy ON/OFF timer
- Time display

**Energy saving.**
- Outing function • Temperature setting range limitation
- Temperature auto return • OFF remind • Schedule demand control • Energy saving mode • Energy monitoring

**Others.**
- Key lock • Ventilation fan control • Display contrast adjustment
- Remote controller sensor • Quiet operation mode • Prohibit setting control from Central controller • Rotation / Back up control

* Power consumption monitoring is available for all PACi systems except R410A PACi Standard.
* Rotation and backup control with CZ-RTC5B is available for all PACi systems.

## Wired remote controller (for Floor Standing (P1) indoor units)



**CZ-RTC2**
- Time Function 24 hours real time clock (week day indicator)
- Weekly programme function (a maximum of 6 actions can be programmed for each day)
- Sleeping function (this function controls the room temperature for comfortable sleeping)
- Maximum 8 indoor units can be controlled from one remote controller
- Remote controller by main remote controller and sub controller is possible (maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- Possible to connect to the outdoor unit using PAW-MRC cable for servicing purposes
- Outing function (this function can prevent the room temperature from dropping or rising when the occupants are out for a long time)

**Basic remote controller ON/OFF.**
- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan)
- Temperature setting (Cooling / Dry: 18-30°C Heating: 16-30°C)
- Fan speed setting High / Medium / Low and Auto
- Air flow direction adjustment
- Dimensions (H x W x D): 120 x 120 x 16mm

## Infrared remote controller



CZ-RWS3 + CZ-RWRU3
For 4 Way 90x90 Cassette.



CZ-RWS3
For Wall Mounted and 4 Way 60x60 (with CZ-KPY3AW).



CZ-RWS3 + CZ-RWRL3
For 2 Way Cassette.



CZ-RWS3 + CZ-RWRD3
For 1 Way Cassette.



CZ-RWS3 + CZ-RWRT3
For Ceiling.



CZ-RWS3 + CZ-RWRC3
For all indoor units.

**CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRT3 // CZ-RWS3 + CZ-RWRC3**
- Easy installation for the 4 Way cassette type simply by replacing the corner part
- 24 hour timer function
- Remote controller by main remote controller and sub controller is possible (Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- When CZ-RWS3 is used, infrared control becomes possible for all indoor units (1: when a separate receiver is set up in a different room, control from that room also becomes possible. 2: automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted)
- Operation of separate energy recovery ventilators (When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote controller (interlocked operation with the indoor unit or independent ventilation ON/OFF)

## Simplified remote controller. Quick and easy operation

**CZ-RE2C2. A remote controller with simple functions and basic operation.**
- Suitable for open rooms or hotels where detailed functions are not required
- ON/OFF, operation mode switching, temperature setting, air speed switching, air flow direction setting, alarm display, and remote controller self-diagnosis can be performed
- Batch group control for up to 8 indoor units
- Remote controller by main remote controller and sub controller is possible with a simplified remote controller or a wired remote controller (up to two units)
- Dimensions (H x W x D): 120 x 70 x 16mm



## Remote sensor

**CZ-CSRC3**
- This remote sensor can be connected to any indoor unit. Please use it to detect the room temperature when no remote controller sensor or body sensor is used (connection to a system without a remote controller is possible)
- For joint use with a remote controller switch, use the remote controller switch as main remote controller
- Batch group control for up to 8 indoor units
- Appearance design based on simplified remote controller chassis
- Dimensions (H x W x D): 120 x 70 x 17mm
- Weight: 70g
- Temperature/Humidity range: 0°C to 40°C / 20 % to 80 % (no condensation) (indoor use only)
- Power Source: DC16V (supplied from indoor unit)
- Maximum number of connectable indoor units: Up to 8 units



| Control contents | | Part name, model No. | Quantity |
|---|---|---|---|
| Standard Control | • Control of the various operations of the indoor unit by wired or infrared remote controller<br>• Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller<br>• Switching between remote controller sensor and body sensor is possible | High spec wired remote controller: CZ-RTC5B<br>Wired remote controller: CZ-RE2C2<br>Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 // CZ-RE2C2 | 1 unit each |
| (1) Group control | • Batch remote controller on all indoor units<br>• Operation of all indoor cells in the same mode<br>• Up to 8 units can be connected | High spec wired remote controller: CZ-RTC5B<br>Wired remote controller: CZ-RE2C2<br>Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 // CZ-RE2C2 | 1 unit |
| (2) Main/sub remote controller | • Max 2 remote controllers per indoor unit<br>• The button pressed last has priority<br>• Timer setting is possible even with the sub remote controller | Main or sub. High spec wired remote controller: CZ-RTC5B<br>Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 // CZ-RE2C2 | As required |

# CENTRALISED CONTROLLERS

## System Controller with Schedule timer. Operation with various function from center station

ECONAVI



**Sample display image / Operation status display**

Operation Status ALL



Operation Status ZONE



Operation Status GROUP



**CZ-64ESMC3**

**Panasonic unveils state-of-the-art digital controller**

Panasonic has launched its latest controller, an innovative and easy to use interface that offers full functionality with an integrated schedule timer and system controller, making managing heating and cooling systems easier than ever before. The CZ-64ESMC3 includes Panasonic's popular schedule timer, which gives users full. Flexibility over when they want their property heated or cooled. Users can adjust the system for holidays, pausing operations for long periods of time so that energy isn't wasted heating or cooling an empty home or office. The controller also allows six operations per day to be programmed.

**Mix of current 2 controllers: System controller + Schedule timer.**

System controller will be designed by taking priority on these 2 operations with following technical key points:

- Same operation feeling as wired remote controller by touch-key panel
- High visibility and usability by Full-dot LCD
- Based on High wired remote controller
- Maximum 64 group of indoor units, Individual control for 64 units
- 4 zone control; 1 zone = Maximum 16 groups
- Several energy saving function (based on CZ-RTC5B)
- 6 timer program per day for 1 week (7 days) operation (Total 6 x 7= 42 programs)
- Basic setting items (Temperature, Mode, Fan speed, Flap position) can be set by same manner as CZ-RTC5B

**Function list:**

Central control functions:

- Central control / individual setting
  - Start-stop prohibition for remote controller
  - Start-stop / Mode change / Temperature setting prohibition for remote controller
  - Mode change / Temperature setting prohibition for remote controller
  - Mode change prohibition for remote controller
  - Select items for prohibition
- Filter information
  - Filter sign
  - Filter sign reset
- Ventilation setting

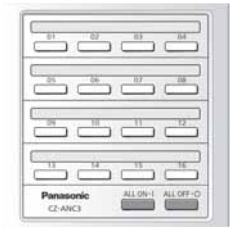
Timer functions and external I/O:

- Weekly Timer
  - Timer setting Enable / Disable
  - Copy of Timer setting
- Maintenance
  - External signal (Start / Stop) (Demand control)
  - Centralized control master-slave setting
  - Alarm history
- Initial setting
  - Clock

Energy saving, maintenance and operating functions:

- Energy-saving control
  - Econavi ON/OFF
- Filter information
  - Filter sign and hour counter display
- Maintenance
  - Service contact
- Initial setting
  - Clock display setting
  - Name Setting
  - Operation lock setting
  - Operation sound setting
  - LCD contrast setting
  - LCD backlight setting
  - Select displayed language (EN / FR / IT / ES / DE)
  - Administrator password
- Setting information list

## ON/OFF Controller. Only ON/OFF operation from center station



**CZ-ANC3**

- 16 groups of indoor units can be controlled
- Collective control and individual group (unit) control can also be performed
- Up to 8 ON/OFF controller (4 main, 4 sub) can be installed in one link system
- The operation status can be determined immediately
- Dimensions (H x W x D): 121 x 122 x 14 + 52mm (embedding dimension)

Power supply: AC 220 to 240V.

I/O part: Remote input (effective voltage: within DC 24V): All ON/OFF.
Remote output (allowable voltage: within DC 30V): ON, Alarm.

Note: As operation mode and temperature settings are not possible with the ON/OFF controller, it must be used together with a remote controller, a system controller etc.

## Intelligent Controller (Touch screen panel). Simplified load distribution ratio (LDR) for each tenant

ECONAVI



**CZ-256ESMC3**
Dimensions (H x W x D): 240 x 280 x 20 (+60)mm.
Power supply: Single Phase 100-240V ~ 50/60Hz.
Maximum number of connectable indoor units: 256 units (maximum per link: 64 units).
Maximum number of connectable outdoor units: 120 units (maximum per link: 30 units).
- Central control device: Up to 10 units

Enlarged Display Screen: 10,4 inch Touch-panel colour LCD.
Pursuing visibility, ease of use. Retrieve data from USB memory: Place the USB port inside the panel (USB memory available in stores). Communication adaptor: CZ-CFUNC2*.

* CZ-CFUNC2 is required to connect more than 128 indoor units.

**Functions:**
- Graph display (trends, comparisons)
- Econavi ON/OFF
- Outdoor unit quiet operation ON/OFF
- Energy-saving functions: Set temperature auto return settings, Auto shut OFF, Set temperature range limit settings, Energy saving for PAC current value,etc.
- Event control (such as equipment linkage)
- Performs closing at end of any period

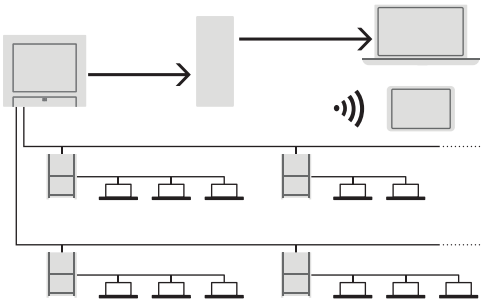
**Operation and status.**
You can check to operational status (ON/OFF, operating mode, alarms, etc.) of all indoor units and outdoor units in real time.
You can also select indoor units to change their settings.

**Operation scheduling.**
You can register daily operation schedules (ON/OFF time, operating modes, set temperatures, etc.) for individual indoor units or groups of indoor units.
Operations can be schedule for up to 2 years in advance.

**Load distribution calculation for each tenant.**
- Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data ($m^3$, kWh)
- Calculated data is stored as a CSV type file
- Data from the last 365 days is stored

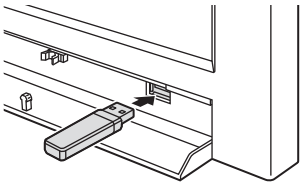
**Web application. Web access & control from remote station.**
- Accessing from remote PC
- You can monitor/operate system by using Web browser

**Remote controller.**
The LAN terminal on this unit enables you connect it to a network. Connecting to Internet will enable you to operate the unit and check the status using a PC from a remote location.

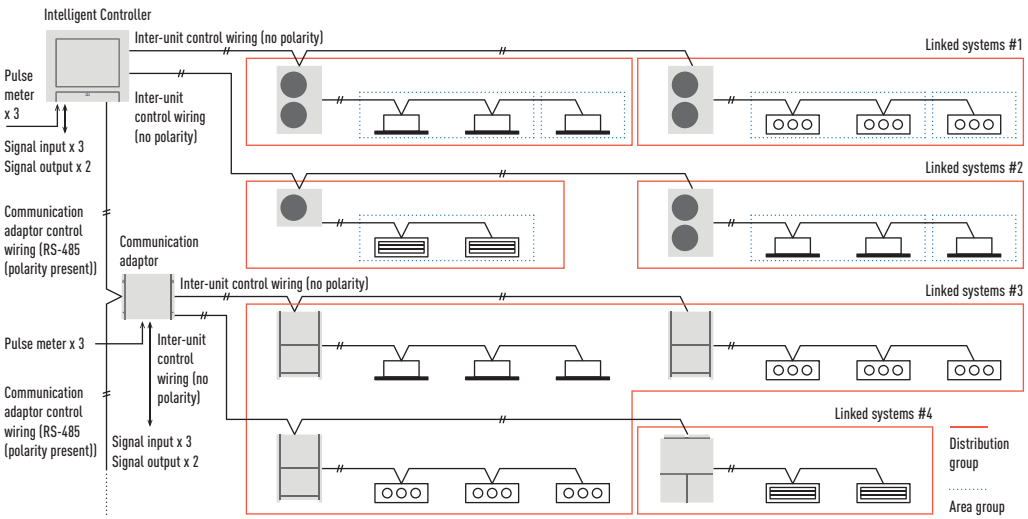


**Back up tool to save your commissioning time.**
Various data such as distribution, setting, log history etc. can be saved by CSV file.
Setting data of CSV file is available to edit and import to the controller again.
You can save time for commissioning and change setting flexibly and easily by your PC.
- Customize data
- Data recovery

Data can be imported again by general USB.



**System Configuration Example.**



# CENTRALISED CONTROLLERS

## P-AIMS. Panasonic Total Air Conditioning Management System



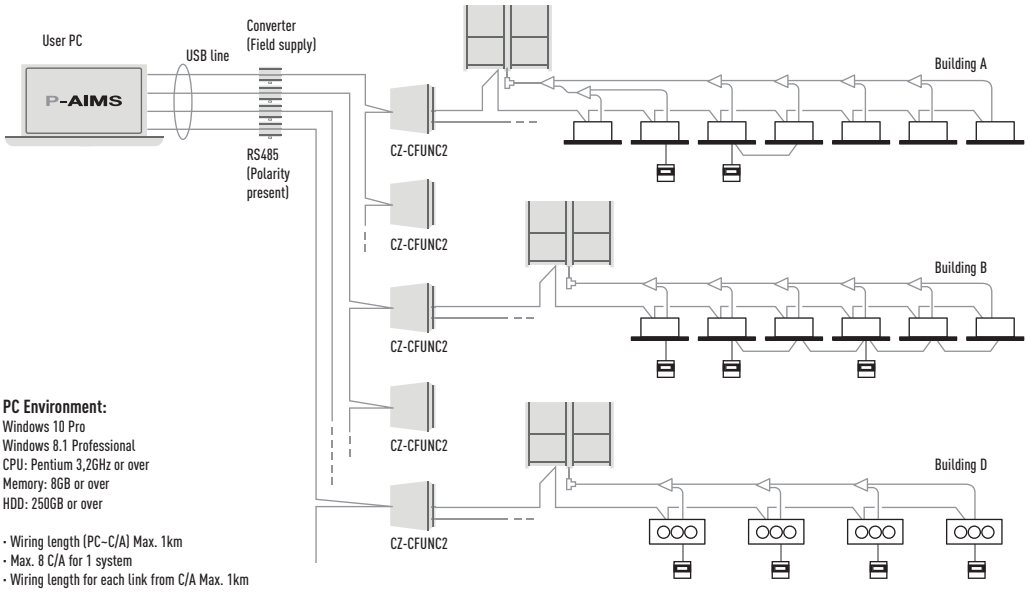




**CZ-CSWKC2 / P-AIMS Basic software.**
Up to 1024 indoor units can be controlled by one PC.

**Functions of basic software.**
- Standard remote controller for all indoor units.
- Many timer schedule programs can be set on the calender.
- Detailed information display for alarms.
- CSV file output with alarm history, operating status.
- Automatic data backup to HDD.

P-AIMS is suitable for large shopping centers and universities with many areas/ buildings. 1 "P-AIMS" PC can have 4 independent systems at once.
Each system can have maximum 8 C/A units, and control maximum 512 units. In total, 1024 indoor units can be controlled by 1 "P-AIMS" PC.




**PC Environment:**
Windows 10 Pro
Windows 8.1 Professional
CPU: Pentium 3,2GHz or over
Memory: 8GB or over
HDD: 250GB or over

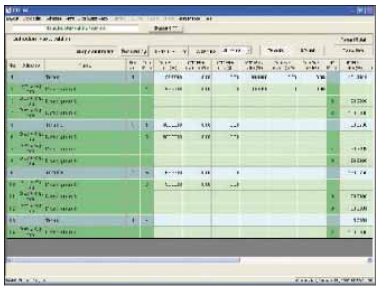
- Wiring length (PC–C/A) Max. 1km
- Max. 8 C/A for 1 system
- Wiring length for each link from C/A Max. 1km

**P-AIMS optional software CZ-CSWAC2 for Load distribution. Load distribution calculation for each tenant.**
- Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data ($m^3$, kWh)
- Calculated data is stored as a CSV type file
- Data from the last 365 days is stored

**P-AIMS optional software CZ-CSWWC2 for Web application.**
**Web access & control from remote station.**
- Accessing P-AIMS software from remote PC
- You can monitor/operate ECOi 6N system by using Web browser (Internet Explorer)

**P-AIMS optional software CZ-CSWGC2 for Object layout display. Whole system can be controlled visually.**
- Operating status monitor is available on the layout display
- Object's layout and indoor unit's location can be checked at once
- Each unit can be controlled by virtual remote controller on the display
- Max. 4 layout screens are shown at once

**P-AIMS optional software CZ-CSWBC2 for BACnet software interface. Connectable to BMS system.**
- Can communicate with other equipment by BACnet protocol
- ECOi 6N system can be controlled by both BMS and P-AIMS
- Max. 255 indoor units can be connected to 1 PC (that has P-AIMS basic & BACnet software).



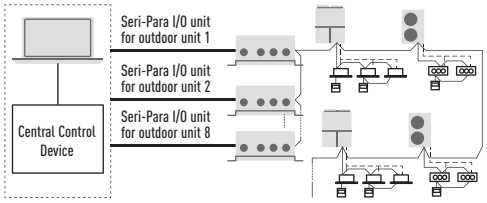
With 4 upgrade packages the basic software can be upgraded to suit individual requirements.

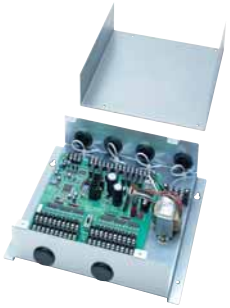
## Seri-Para I/O unit for outdoor unit. Connection with 3rd Party Controller

**CZ-CAPDC2 for ECOi / CZ-CAPDC3 for Mini ECOi and PACi.**
- This unit can control up to 4 outdoor units
- From the central control device, mode changing and batch operation/batch stop are possible
- Required for demand control

Dimensions (H x W x D): 80 x 290 x 260mm.
Power supply: Single Phase 100/200V (50/60Hz), 18W.
Input: Batch operation/Batch stop (non-voltage contact/DC 24 V, pulse signal). Cooling/Heating (non-voltage contact/static signal). Demand 1/2 (non-voltage contact/static signal) (Local stop by switching).

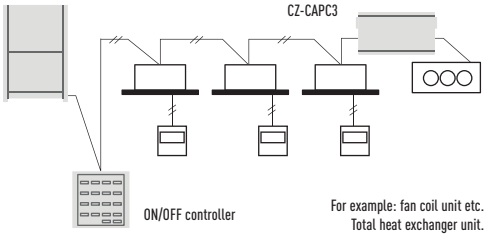
Output: Operation output (non-voltage contact). Alarm output (non-voltage contact).
Wiring length: Indoor/Outdoor operation lines: Total length 1km.
Digital signal: 100m or shorter.



## Local adaptor for ON/OFF control. Connection with 3rd Party Controller

**CZ-CAPC3**
- Control and status monitoring is possible for individual indoor unit (or any external electrical device up to 250 V AC, 10 A) by contact signal

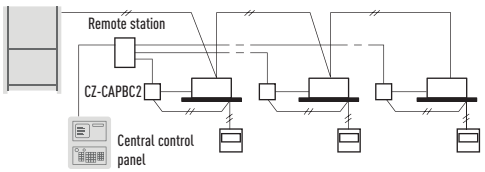





## MINI Seri-Para I/O Unit 0 -10V. Connection with 3rd Party Controller

**CZ-CAPBC2**
- Control and status monitoring is possible for individual indoor unit (1 group)
- In addition to operation and stop, there is a digital input function for air speed and operation mode
- Temperature setting and measuring of the indoor suction temperature can be performed from central monitoring
- Power is supplied from the T10 terminal of the indoor units
- The analog input for demand of the outdoor capacity by 20 steps (from 40% to 120%) by 0-10V
- The analog input for temperature setting is 0 to 10V, or 0 to 140 Ohm
- Separate power supply also is possible (in case of suction temperature measuring)

* Ask to your distributor.





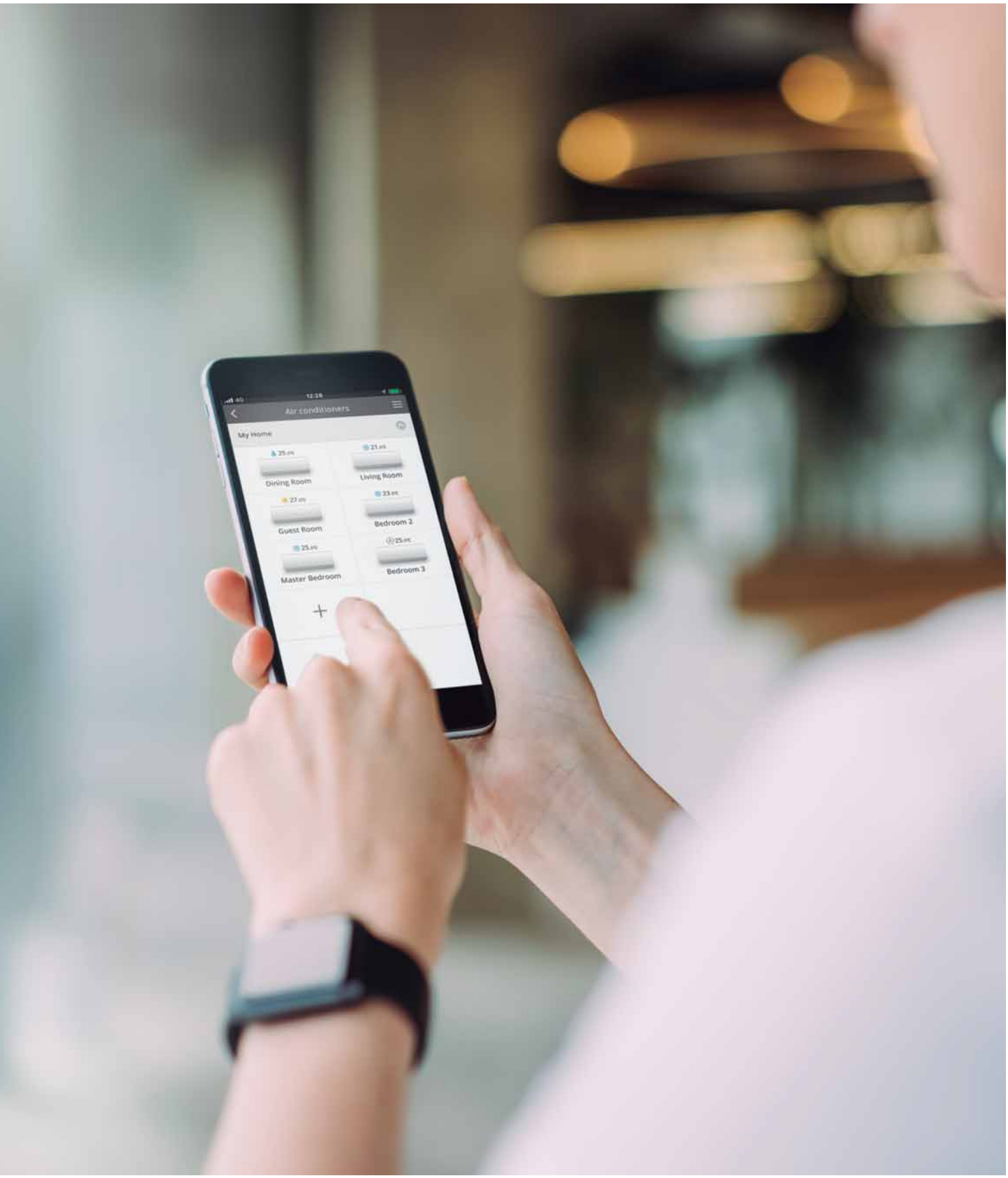

## Communication adaptor for VRF Connectivity

**CZ-CFUNC2**
This communication interface is required to connect a ECOi and GHP systems to a BMS. An additional interface is needed to convert the information into KNX / Modbus / BACnet language. CZ-CFUNC2 is very easy to operate and to connect to the Panasonic P-Link, which is the ECOi bus. From the CZ-CFUNC2, all the indoor and outdoor units of the installation can be easily control. Two linked wiring systems can be connected to one CZ-CFUNC2.
Dimensions (H x W x D): 260 x 200 x 68mm

* As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.



# PACi AND VRF CONTROL AND CONNECTIVITY



Controls and connectivities are the key to offer better comfort and price. Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver optimal performance. You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote controller provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.

BMS CONNECTIVITY

### Panasonic PACi, ECOi and ECO G protocol room controllers and Interfaces.

| Type of connection | Number of units | RC or IF | Modbus | KNX | BACnet | LonWorks |
|---|---|---|---|---|---|---|
| ECOi / PACi Indoor Units | 1 unit/group | Room controller | | | SER8150R0B1194 | |
| | | | PAW-RE2C3-MOD-WH-1 | | SER8150R5B1194 | |
| | | | SER8150R0B1194 | | | |
| | | | SER8150R5B1194 | | | |
| | | Interfaces | PAW-RC2-MBS-1 | PAW-RC2-KNX-1i | PAW-AC-BAC-1 | |
| | 4 units/groups | Interfaces | PAW-RC2-MBS-4 | | | |
| PACi / ECOi / ECO G P-Link | 16 indoors | Interfaces | PAW-AC2-MBS-16P | PAW-AC2-KNX-16P | PAW-AC2-BAC-16P | |
| | 64 indoors | Interfaces | | | | CZ-CLNC2 [1] |
| | | Interfaces | PAW-AC2-MBS-64P | PAW-AC2-KNX-64P | PAW-AC2-BAC-64P | |
| | 128 indoors | Interfaces | PAW-AC2-MBS-128P | | PAW-AC2-BAC-128P | |

1) 16 groups of maximum 8 indoor units, in total maximum 64 indoor units.

## PACi, ECOi and ECO G Connectivity

The interface has been designed specifically for Panasonic and provides complete monitoring, control and full functionality of the line-up from IntesisHome, KNX, Modbus, BACnet and LonWorks installations.
This connectivity solution with "PAW" model names is made by a third party company, please contact Panasonic for more information.

| | Model name | Interface | Maximum number of indoor units connected |
|---|---|---|---|
| ECOi / PACi Indoor Units | PAW-RC2-KNX-1i | KNX | 1 (1 Group of Indoor units) |
| | PAW-RC2-MBS-1 | Modbus RTU [1] | 1 (1 Group of Indoor units) |
| | PAW-RC2-MBS-4 | Modbus | 4 indoor/groups |
| | PA-RC2-WIFI-1 | IntesisHome | 1 (1 Group of Indoor units) |
| PACi / ECOi / ECO G P-Link | PAW-AC2-KNX-16P | KNX | 16 |
| | PAW-AC2-KNX-64P | KNX | 64 |
| | PAW-AC2-MBS-16P | Modbus | 16 |
| | PAW-AC2-MBS-64P | Modbus | 64 |
| | PAW-AC2-MBS-128P | Modbus | 128 |
| | PAW-TM-MBS-RTU-64 | Modbus RTU [2] | 64 |
| | PAW-TM-MBS-TCP-128 | Modbus TCP [2] | 128 |
| | PAW-AC-BAC-1 | BACnet | 1 |
| | PAW-AC2-BAC-16P | BACnet | 16 |
| | PAW-AC2-BAC-64P | BACnet | 64 |
| | PAW-AC2-BAC-128P | BACnet | 128 |
| | CZ-CLNC2 | LonWorks | 16 groups of maximum 8 indoor units, in total maximum 64 indoor units |

1) Interface Modbus RTU/TCP is needed in case if Modbus TCP connection. PAW-MBS-TCP2RTU (ModBus RTU Slave devices). 2) Interface CZ-CFUNC2 needed.

## Airzone. Control of the Hide Aways

Airzone has developed interfaces to easily connect to Panasonic Commercial Hide Away units. Ensuring optimum performance, comfort and energy savings, the new system is efficient and easy to install.

### Airzone full range of accessories for any duct project.

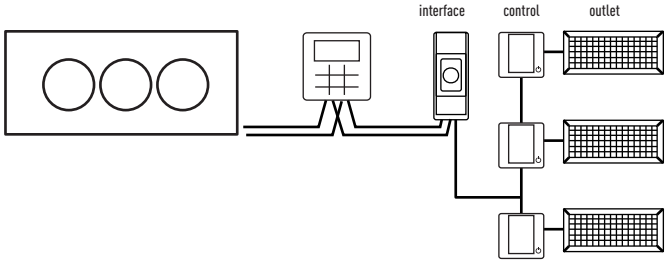

Different type of outlets


Also plenum automatic doors



Full range of remote controls (wired / Infrared, ...)

AIRZONE



# ECOi, ECO G AND PACi CONNECTIVITY INDOOR UNITS

| PCB's and cables for ECOi, ECO G and PACi indoor units | | |
|---|---|---|
| **Name of the cables** | **Function** | **Comment** |
| **CZ-T10** | All T10 functions | Requires field supplied accessory |
| **PAW-FDC** | Operate external fan | Requires field supplied accessory |
| **PAW-OCT** | All option monitoring signals | Requires field supplied accessory |
| **CZ-CAPE2** | Option monitoring signals wo. fan | Requires additional wires from spare part supply |
| **PAW-EXCT** | Forced Thermo OFF/Leakage D. | Requires field supplied accessory |
| **Name of the PBC** | **Function** | **Comment** |
| **PAW-T10** | All T10 functions | Allows easy connection "Plug & Play" |
| **PAW-PACR3** | Redundancy of 2 or 3 systems; for ECOi and PACi | Redundancy of 2 or 3 ECOi or PACi systems including temperature monitoring, error indication, backup, alternative run |

## T10 connector (CN015)



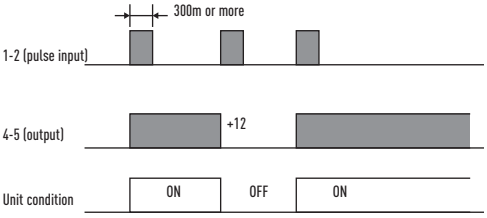
### CZ-T10

Panasonic has developed an optional accessory (consisting of plug + wires) called CZ-T10 to enable an easy connection to this T10 connector.

Connecting an ECOi indoor unit to an external device is easy. The T10 terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.

### T10 terminal Specification (T10: CN015 at indoor unit PCB).

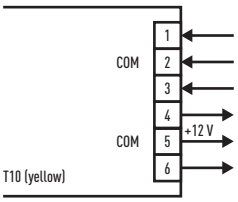
- Control items: 1. Start/stop input
  2. Remote controller prohibit input
  3. Start signal output
  4. Alarm signal output




NOTE: The wire length from indoor unit to the Relay must be within 2,0m. Pulse signal changeable to static by cutting jumper JP001.

- Condition
1. 1-2 (Pulse input): Unit ON/OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300msec. or more)
2. 2-3 (Static input): Open / Operation with Remote is permitted (Normal condition) Close / Remote controller is prohibited
3. 4-5 (Static output): 12V output during the unit ON / No output at OFF
4. 5-6 (Static output): 12V output when some errors occur / No output at normal

- Example of wiring

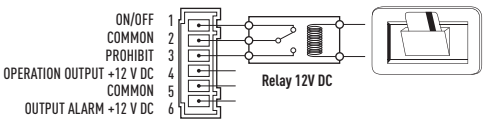



### Usage Example.
### Forced OFF control.

Term 1 & 2: Free contact for ON/OFF signal (cut *JP1* for static signal) when the hotel card is it connected the contact must be close (the unit can be used).

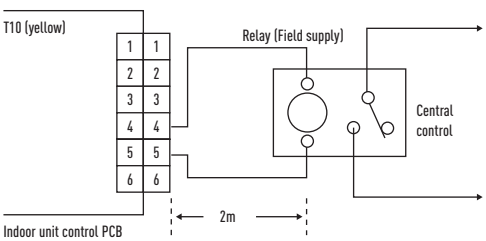
Term 2 & 3: Free contact to prohibit all function in the remote controller install in the room when the hotel card is it removed the contact must be closed (the unit can not work).

**Terminal = T10**




### Operation ON/OFF signal output.

- Condition:
  4-5 (Static output): 12V output during the unit ON / No output at OFF
- Example of wiring




NOTE: The wire length from indoor unit to the Relay must be within 2,0m. Pulse signal changeable to static by cutting jumper JP001.

## Fan Drive Connector (CN032)

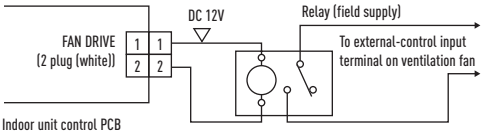
**PAW-FDC**
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-FDC to enable an easy connection to this Fan Drive Connector (CN032).

Operating the ventilation fan from the remote controller
- Start / stop of external ventilation and total heat exchanger fans
- Works even if indoor unit is stopped
- In case of group control ➔ all fans will operate; no individual control



**External fan ON/OFF**



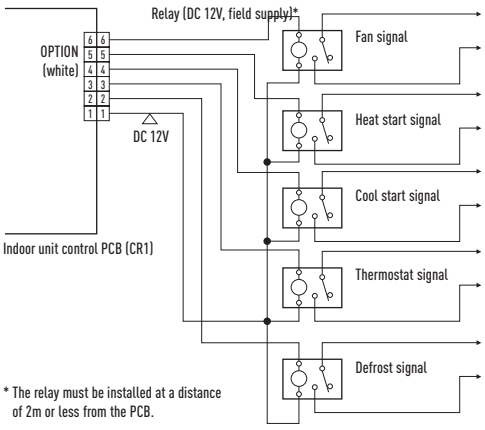




## Option Connector (CN060) Output external signals

**PAW-OCT**
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-OCT to enable an easy connection to this Option Connector (CN060).

**With the combination of the T10 and the option CN060 an external control of the indoor units is possible!**

**6P (white): Outputs external signals as shown in the figure below**







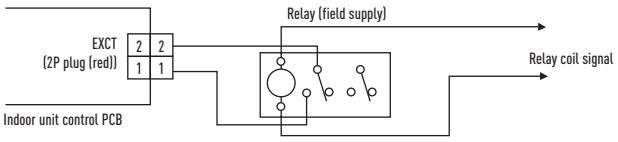
## EXCT Connector (CN009)

**PAW-EXCT**
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-EXCT to enable an easy connection to this EXCT Connector (CN009).

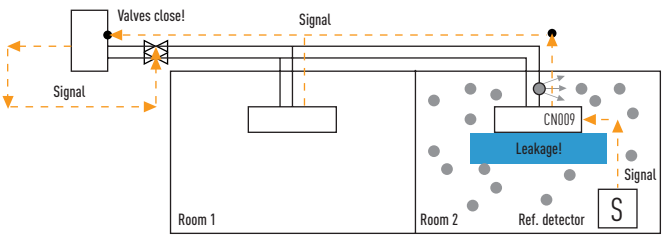
**A) With static input.**
**➔ STATIC INPUT ➔ THERMO OFF ➔ ENERGY SAVING**
2P plug (red): Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

Note: The length of the wiring from the indoor unit control PCB to the relay must be 2m or less.

- Examples of wiring:




**B) Example: In connection with a refrigerant sensor.**
- Signal from leakage detector: non voltage, static.
- Indoor unit setting: Code 0b ➔ 1
- Connector for leak detector: EXCT
- Outdoor unit setting:
  Code C1 ➔ 1 power output if alarm from O2 connector 230V
  Code C1 ➔ 2 power output if alarm from O2 connector 0V
- Displayed alarm message P14






# PANASONIC CONDENSING UNITS WITH NATURAL REFRIGERANT



Panasonic is now introducing the new environmentally friendly $CO_2$ condensing units for commercial refrigeration.
With Panasonic condensing units you can expect:
· Energy savings · Low noise levels · Light weight · Low refrigerant charge · Low installation cost · Low costs on servicing

# CHOOSE THE GREEN SOLUTION BY PANASONIC

**ENVIRONMENTALLY FRIENDLY**
**$CO_2$**
**CONDENSING UNITS**

## Why $CO_2$?: Natural refrigerant

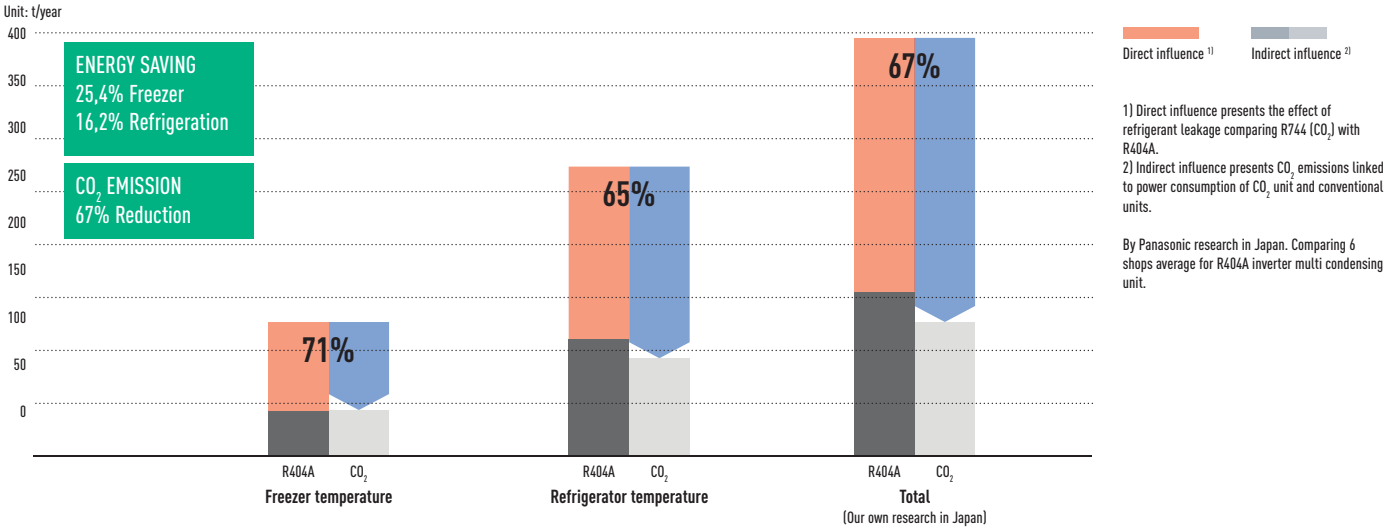
EU F-Gas Regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies.
Carbon dioxide (R–744) is regaining its place in the refrigeration world. Driven by environmental concerns, legislation is requiring increased adoption of 'alternative' refrigerants, of which $CO_2$ is one.
$CO_2$ is a very attractive refrigerant from an environmental perspective. Zero ODP and "GWP" (Global Warming Potential)=1 means natural substance in the atmosphere.
In Europe a step-by-step HFC reduction has been in place since the F Gas regulation was introduced in 2015.
In fact, not only in Europe but also other countries all over the world have actively been preparing to enact the necessary domestic legislation to implement the agreement for reducing the use of HFCs.
Panasonic is now able to provide a solution in Europe with $CO_2$ refrigeration systems to prevent global warming and to support environment-friendly retail operations.
The following table shows how well R744 ($CO_2$) performs regarding environmental impact and safety.



### ODP (Ozone Depletion Potential) = 0 - GWP (Global Warming Potential) = 1.

| | Next generation refrigerant | | | Current refrigerant | |
|---|---|---|---|---|---|
| | **$CO_2$** | Ammonia | Isobutane | R410A | R404A |
| **ODP** | **0** | 0 | 0 | 0 | 0 |
| **GWP** | **1** | 0 | 4 | 2090 | 3920 |
| **Flammability** | **Non flammable** | Light flammable | Flammable | Non flammable | Non flammable |
| **Toxicity** | **No** | Yes | No | No | No |

## Comparison of $CO_2$ emissions




1) Direct influence presents the effect of refrigerant leakage comparing R744 ($CO_2$) with R404A.
2) Indirect influence presents $CO_2$ emissions linked to power consumption of $CO_2$ unit and conventional units.

By Panasonic research in Japan. Comparing 6 shops average for R404A inverter multi condensing unit.

## Reliable quality made in Japan. Excellent quality control established by skilled factory team.

### $CO_2$ transcritical condensing units New MT/LT model (OCU-CR1000VF8A(SL))

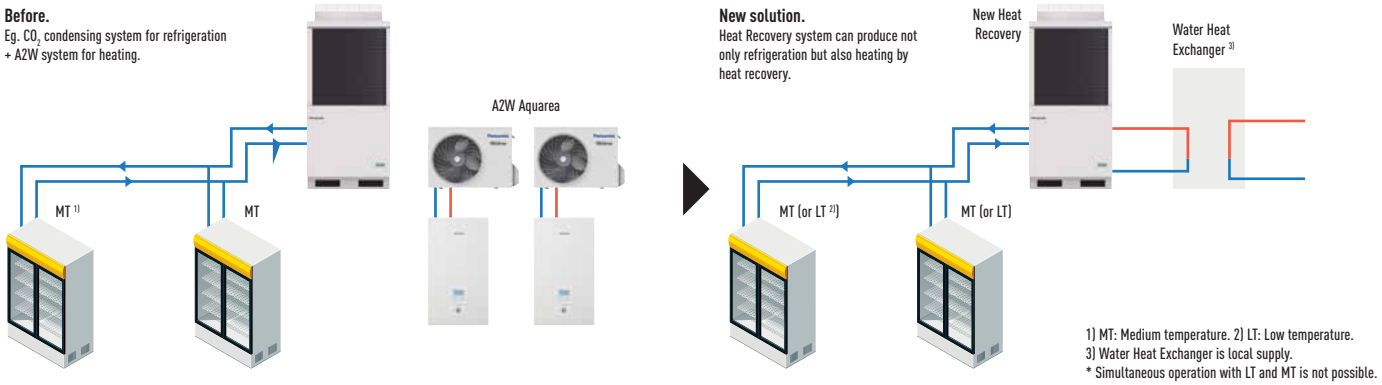
Panasonic has introduced new model offering both MT and LT options.
An enlarged 12L tank in this new model ensures an optimum operation.

**Both MT and LT options.**
Maximum cooling capacity.
MT: Up to 15kW.
LT: Up to 7,5kW.

**Up scales tank 7L to 12L.**
This 12L tank keeps inside extra amount of refrigerant when the system stops.
Also helping installers by making wider tolerance from optimum charge.

**Heat recovery function for heating. Coming soon!**
This function offers refrigeration together with heating in one system. Its a ground breaking function giving a great opportunity to cut running costs by utilizing exhausted heat from refrigeration to the energy source for heating.

**What is Heat Recovery function?**




### $CO_2$ transcritical condensing units CR Series

- Set-points at medium or low temperature available depending on applications
- High COP at high ambient temperature thanks to Panasonic's 2-stage compression $CO_2$ rotary compressor
- Compact and extremely quiet
- Transfer Pressure control for stable expansion valve control in showcases (1000VF8 and 1000VF8A models only)

* SEPR values has been tested at 3-part laboratory.

MT/LT TYPE
200VF5
4kW / 2kW

**3,83**
**SEPR COOLING***
**1,92**
**SEPR FREEZING***




MT TYPE
1000VF8
15kW



NEW
2019

MT/LT TYPE
1000VF8A
15kW / 7,5kW



| CR Series | Low temperature | Medium temperature | ET (Evaporation Temperature) Set points range |
|---|---|---|---|
| OCU-CR200VF5 | ✔ | ✔ | -45 ~ -5°C |
| OCU-CR1000VF8 | – | ✔ | -20 ~ -5°C |
| OCU-CR1000VF8A | ✔ | ✔ | -45 ~ -5°C |

## Reliability is our main target and therefore we offer compressor warranties of 5 years, and 2 year warranties on other components!

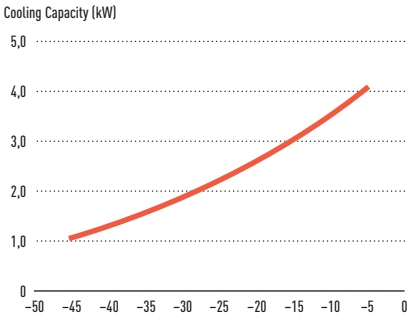
### Superior cooling capacity at each evaporating temperature

$CO_2$ Transcritical Condensing units have a high cooling capacity at each set point. $CO_2$ 2-stage compression rotary compressor developed by Panasonic is designed to compress $CO_2$ refrigerant twice; it reduces load in operation by half compared with 1-stage refrigerant compression and delivers better durability and reliability.

Units can be set to run at low and medium temperatures with four initial settings. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings. (200VF5 model only).

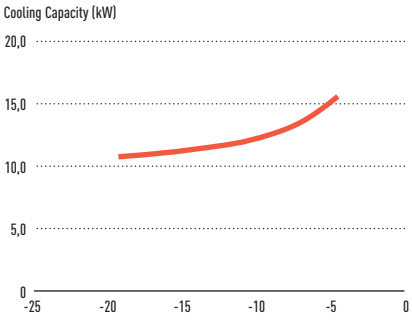
**4kW: OCU-CR200VF5(SL)**

This compact unit provides flexibility to adapt to changing needs of refrigeration depending on the install setting.



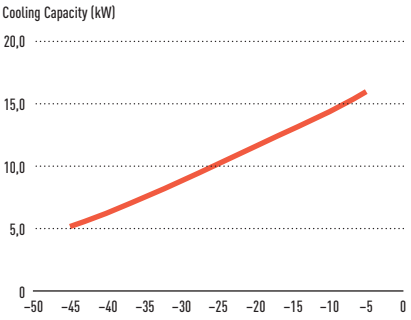

Ambient temperature: 32°C, 230V, Compressor: operation frequency: 65 $S^{-1}$
Refrigerant: R744, suction gas temperature: 18°C.

**15kW: OCU-CR1000VF8(SL)**




Ambient temperature: 32°C, 400V, Compressor: Operation frequency: 60 $S^{-1}$,
Refrigerant: R744, suction gas temperature:18°C.

**15kW: OCU-CR1000VF8A(SL)**




Ambient temperature: 32°C, 400V, Compressor: Operation frequency: 60 $S^{-1}$,
Refrigerant: R744, suction gas temperature:18°C.

### Reliable $CO_2$ technology by Panasonic

- Reliable Quality: Made in Japan
- Experience: 10000 units sold and installed in 3700 retail operations such a convenience stores and supermarkets in Japan*
- Excellent quality control established by skilled factory team
- Panasonic offers 5 year warranties on compressor and 2 years on components
- The 5 year compressor warranty matches the products long lifetime

* As of the end of November 18.






## Cold chain applications

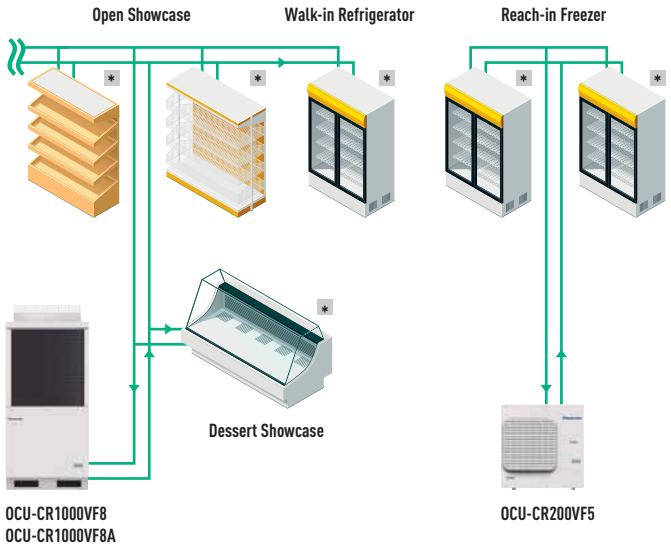
Panasonic's CR Series of $CO_2$ condensing units provide the ideal solution for supermarkets, convenience stores and gas stations.
Keeping food always fresh at right temperature in showcases or cold rooms is a very critical point. And one of the biggest challenges for those retailers has been the expensive effects of refrigeration breakdowns which can result in costly product wastage.
Panasonic's reliable $CO_2$ solution helps address the above issue by having a stable and reliable all year-round system to help maximise energy efficiency.

## Showcases

Convenience stores, supermarket, gas stations.

| $CO_2$ Model | Showcase type example |
|---|---|
| **4kW / OCU-CR200VF5** | Reach in Freezer |
| **15kW / OCU-CR1000VF8**<br>**15kW / OCU-CR1000VF8A** | Open Showcase [1] (total width 850cm) / Dessert showcase / Walk-in refrigerator (6 or 7 doors) |

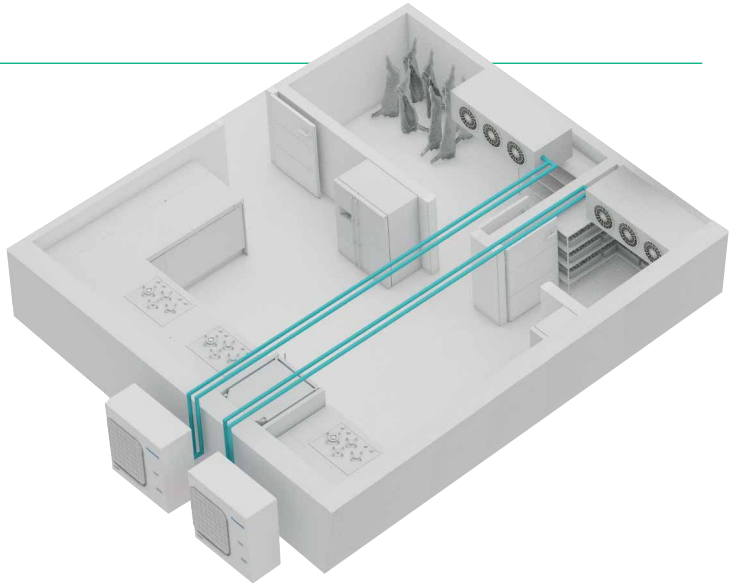
1) Showcases are local supply.
* Controllers: PAW-CO2-PANEL or local supply.
** Minimum cooling load must be 18% of the total capacity.




## Cold room application to keep food fresh

Hotel, school, hospital.





| $CO_2$ Model | Cold room | |
|---|---|---|
| | Evaporation temperature | Room size example* |
| **4kW / OCU-CR200VF5** | -30 ~ -45°C | 10m³ |
| | -10 ~ -5°C | 40m³ |
| **15kW / OCU-CR1000VF8** | -10 ~ -5°C | 200m³ |
| **15kW / OCU-CR1000VF8A** | -30 ~ -45°C | 50m³ |
| | -10 ~ -5°C | 200m³ |

* Room size is reference. Please contact to authorized Panasonic dealer for calculation.

# Panasonic condensing units with natural refrigerant: The environmentally friendly and reliable solution for convenience stores, supermarket, gas stations and cold rooms.

## Saving installation time with Plug & Play kit

To ensure a quick and easy install of the product, Panasonic has designed a one box solution that includes the condensing unit, a panel pre-programmed controller, electronic expansion and all required sensors in addition to providing easy to understand instructions.



**Plug & Play kit**



Electronic expansion for superheat control.



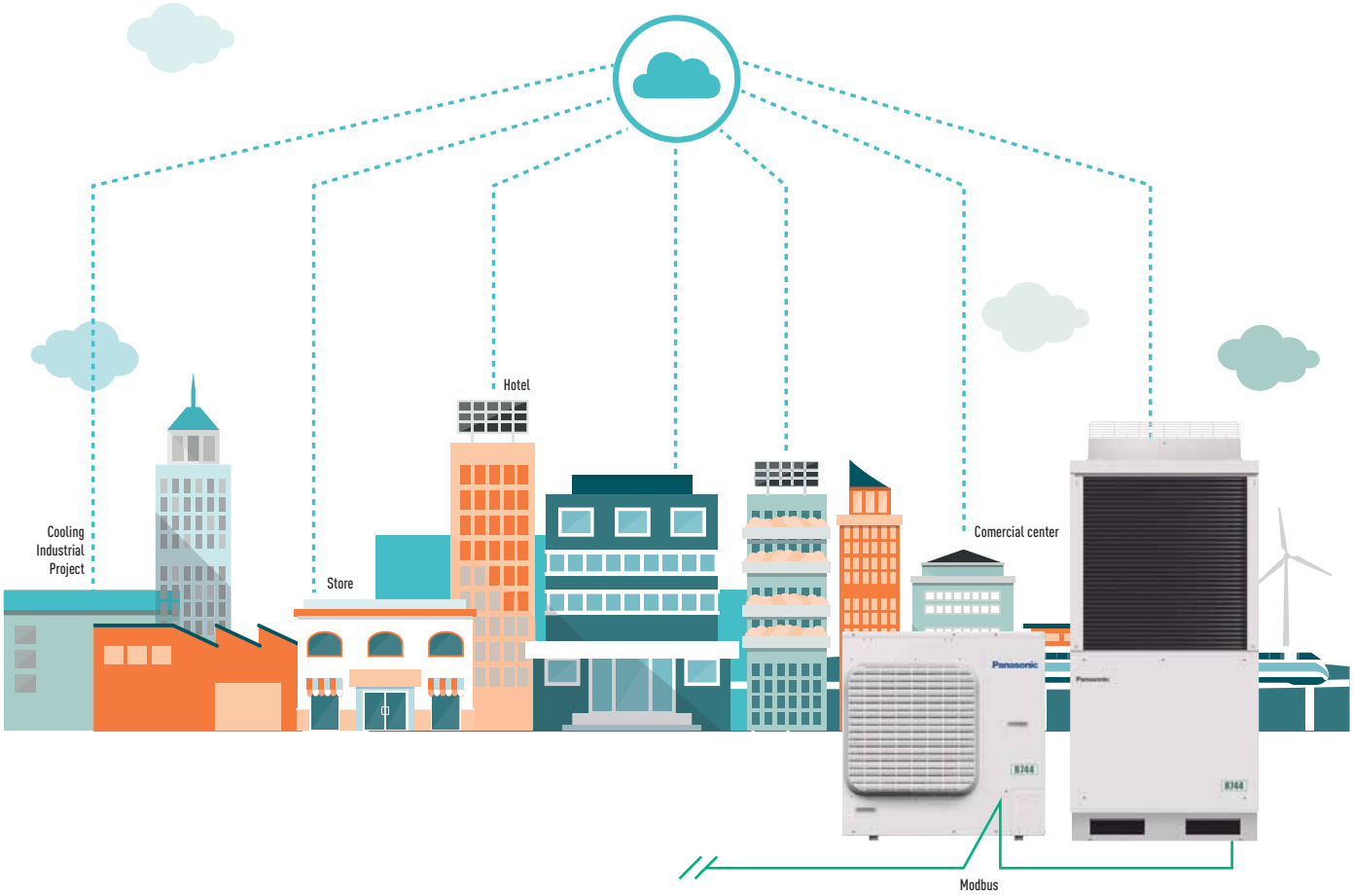
Intelligent controller programmed specially for storage rooms and showcases.

**Model code: PAW-CO2-PANEL**

## Modbus compatibility with monitoring system

Panasonic $CO_2$ condensing unit CR Series can be supervised by major monitoring system such as CAREL, Eliwell and Danfoss. Monitoring system ensures the recording, monitoring and reporting of temperature conditions etc... of entire $CO_2$ condensing units system at shops.

| Monitoring system | | |
|---|---|---|
| CAREL | Danfoss | eliwell by Schneider Electric |
| Standard boss & boss-mini | AK-SM Series | TelevisGo |






## $CO_2$ Condensing units

**Please contact Panasonic for price**

| Model | | | OCU-CR200VF5 | OCU-CR200VF5SL | OCU-CR1000VF8 | OCU-CR1000VF8SL | OCU-CR1000VF8A* | OCU-CR1000VF8ASL* |
|---|---|---|---|---|---|---|---|---|
| Description | | | MT/LT Type | MT/LT Type + anti corrosion coating | MT Type | MT Type + anti corrosion coating | MT/LT Type | MT/LT Type + anti corrosion coating |
| Power supply | Voltage | V | 220/230/240 | | 380/400/415 | | 380/400/415 | |
| | Phase | | Single Phase | | Three Phase | | Three Phase | |
| | Frequency | Hz | 50 | | 50 | | 50 | |
| Cooling capacity at ET -10°C AT 32°C | | kW | 3,70 | | 14,0 | | 14,0 | |
| Cooling capacity at ET -35°C AT 32°C | | kW | 1,80 | | N/A | | 7,5 | |
| Evaporator connection | | | Multiple [1] | | Multiple | | Multiple | |
| Evaporation temperature | Min ~ Max | °C | -45~-5 | | -20~-5 | | -45~-5 | |
| Ambient temperature | Min ~ Max | °C | -15~+43 | | -15~+43 | | -15~+43 | |
| Refrigerant | | | R744 | | R744 | | R744 | |
| Design pressure liquid line | | Mpa | 12 | | 8 | | 8 | |
| Design pressure suction line | | Mpa | 8 | | 8 | | 8 | |
| User system external alarm. Digital input. Non-voltage contact | | | Yes | | Yes | | Yes | |
| Liquid tube electromagnetic valve | | Vac | 220/230/240 | | 220/230/240 | | 220/230/240 | |
| Showcase operation ON/OFF signal. Digital input. Non-voltage contact | | | Yes | | Yes | | Yes | |
| Modbus communication line (RS485) | | Ports | 2 | | 2 | | 2 | |
| Compressor type | | | 2- stage rotary | | 2- stage rotary | | 2- stage rotary | |
| Dimension | H x W x D | mm | 930x900x437 | | 1941x890x890 | | 1941x890x890 | |
| Net weight | | Kg | 70 | | 293 | | 300 | |
| Piping connections | Suction pipe | Inch (mm) | 3/8(9,52) | | 3/4(19,05) | | 3/4(19,05) | |
| | Liquid pipe | Inch (mm) | 1/4(6,35) | | 5/8(15,88) | | 5/8(15,88) | |
| Length of connection piping | | m | 25 | | 100 [2] | | 100 [2] | |
| Standard performance | Ambient temperature | °C | 32 | | 32 | | 32 | |
| | Evaporating temperature | °C | -10 | -35 | -10 | -35 | -10 | -35 | -10 | -35 | -10 | -35 | -10 | -35 |
| | Cooling capacity | kW | 3,70 | 1,80 | 3,70 | 1,80 | 14,00 | — | 14,00 | — | 14,00 | 7,50 | 14,00 | 7,50 |
| | Power consumption | kW | 1,79 | 1,65 | 1,79 | 1,65 | 8,20 | — | 8,20 | — | N/A | N/A | N/A | N/A |
| | Nominal load ampere | A | 7,94 | 7,26 | 7,94 | 7,26 | 12,60 | — | 12,60 | — | N/A | N/A | N/A | N/A |
| | Sound pressure level | dB(A) | 35,5 [3] | 35,5 [3] | 35,5 [3] | 35,5 [3] | 36,0 [4] | — | 36,0 [4] | — | 36,0 [4] | 36,0 [4] | 36,0 [4] | 36,0 [4] |
| Air volume | | $m^3$/min | 54 | | 220 | | 220 | |
| External static pressure | | Pa | 17 | | 58 | | 58 | |
| **Necessary accessories** | | | | | | | | |
| Tube connector adaptor for vacuum and service | | **SPK-TU125** | Yes [5] | | Yes [5] | | Yes [5] | |
| Drier filter liquid line, diameter 6,35mm | | **D-152T** | Yes | | — | | — | |
| Drier filter liquid line, diameter 15,88mm | | **D-155T** | — | | Yes | | Yes | |
| Suction filter, diameter 19,05mm (outer diameter welding) | | **S-008T** [5] | — | | Yes [5] | | Yes [5] | |

| Accessories | |
|---|---|
| **PAW-CO2-PANEL** | Room and superheat control including both Panel + expansion valve |
| **SPK-TU125** | Tube connector adaptor for vacuum and service |

| Accessories | |
|---|---|
| **D-152T** | Drier filter liquid line, diameter 6,35mm for 4kW model |
| **D-155T** | Drier filter liquid line, diameter 15,88mm for 15kW model |
| **S-008T** | Suction filter |

1) Ask salesperson if you make multiple connection. 2) PZ-68S (refrigeration oil) must be added if >50m. 3) ET-10°C, 65 S-1, 10m from product. 4) ET -10°C, 60 S-1, 10m from product. 5) Optional. Please order separately.
* Tentative data.



**SPK-TU125**
Tube connector adaptor for vacuum and service.



**D-152T**
Drier filter liquid line, diameter 6,35mm.



**D-155T**
Drier filter liquid line, diameter 15,88mm.



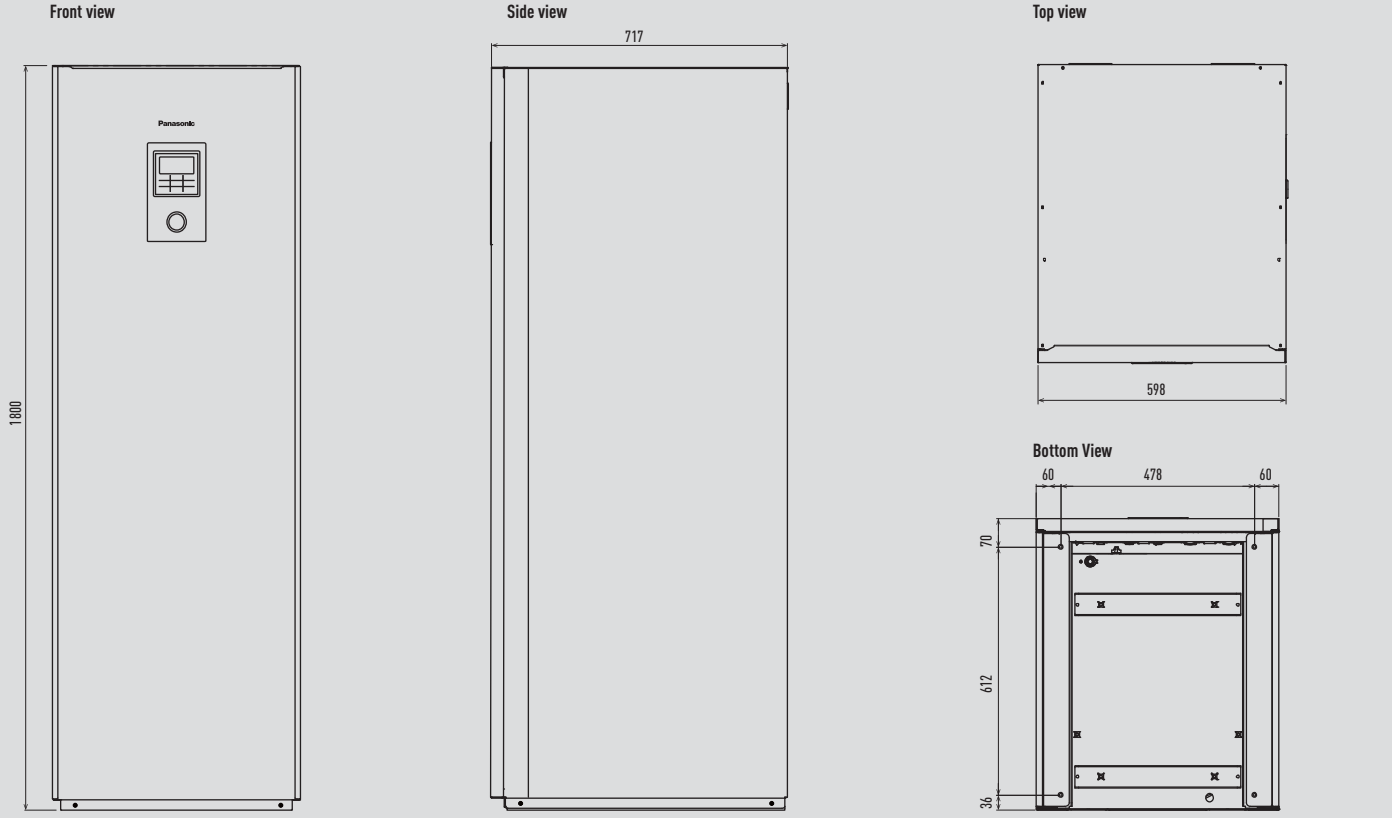
**S-008T**
Suction filter, diameter 19,05mm (outer diameter welding).

5 YEARS COMPRESSOR WARRANTY



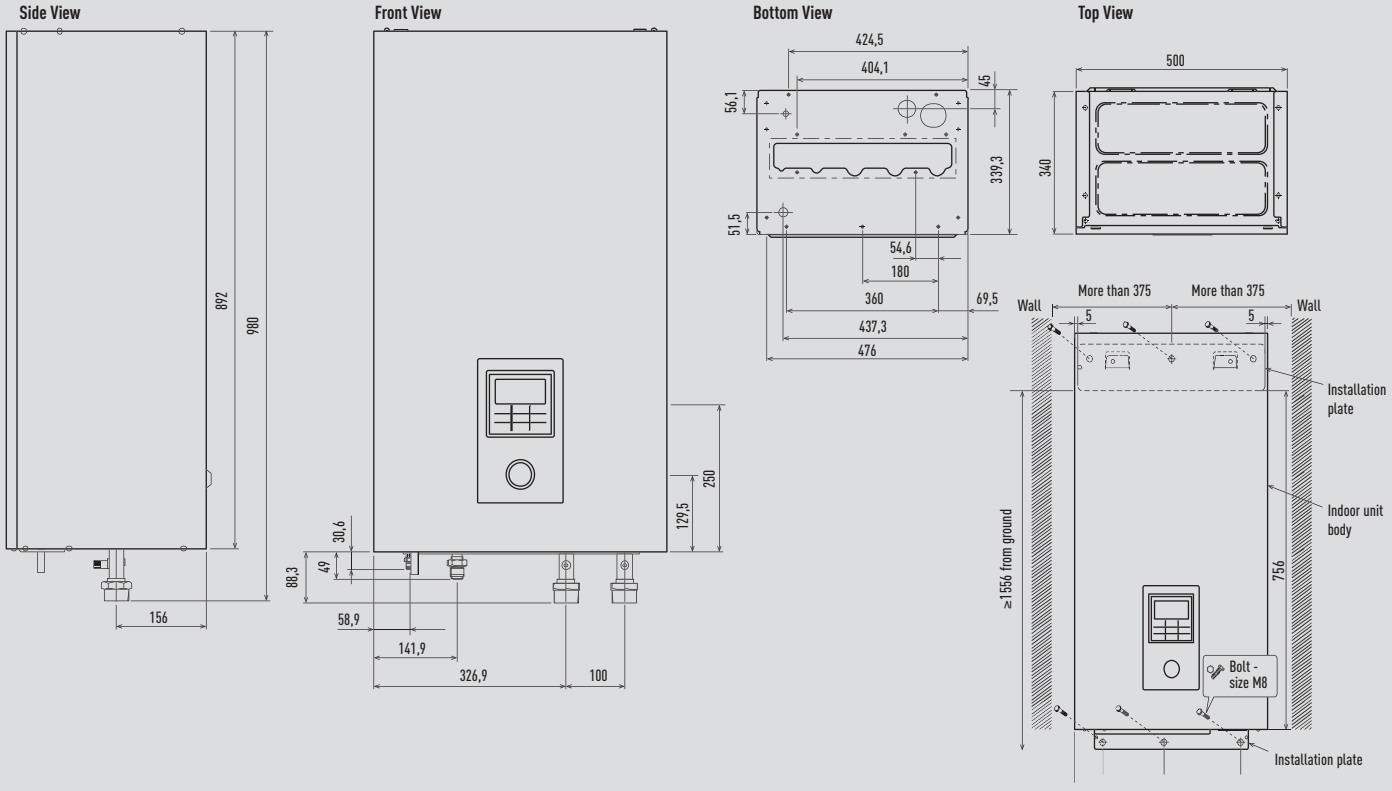
# DIMENSIONS

## All in One H Generation




Unit: mm

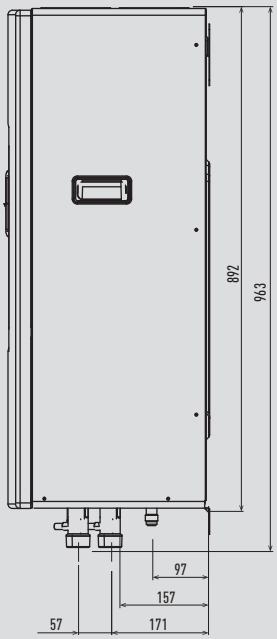
## Hydraulic Module H Generation



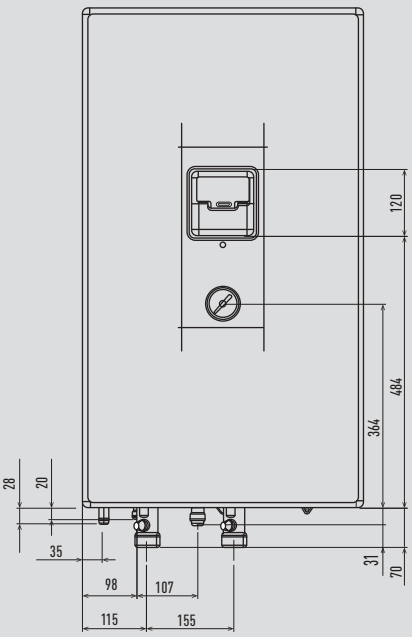

Unit: mm

## Hydraulic Module F Generation

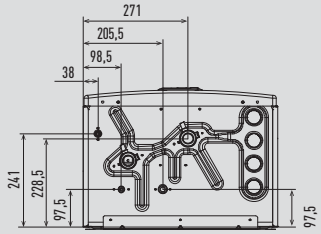
**Side View**



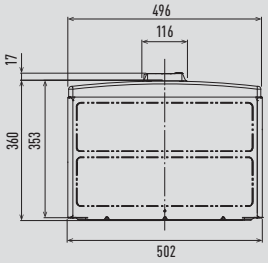

**Front View**



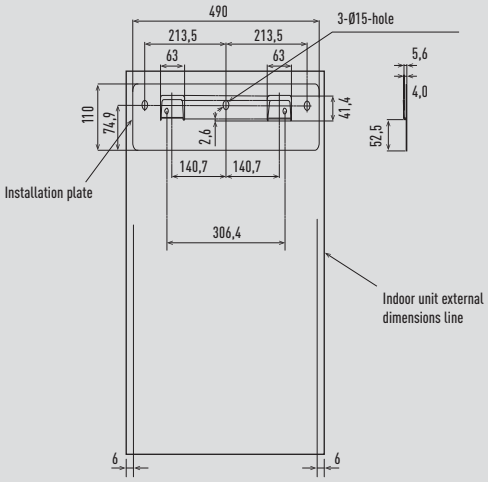

**Bottom View**




**Top View**



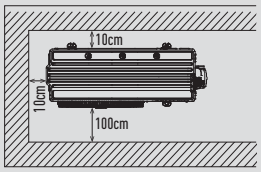

**Relative position between the indoor unit and the installation plate Front View**




Unit: mm

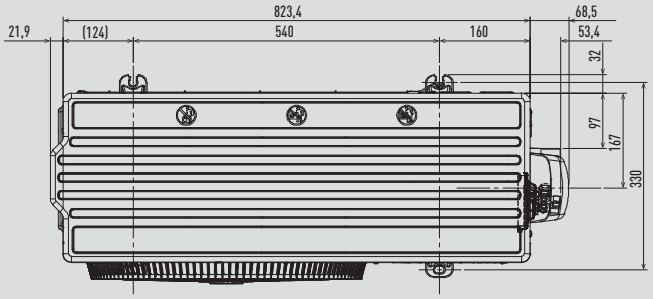
## Bi-bloc outdoor unit 3 and 5kW

Space necessary for installation

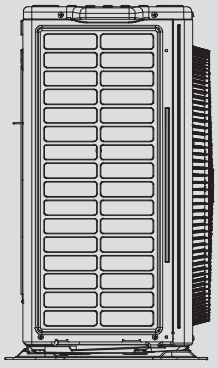



Anchor bolt pitch 355 x 260

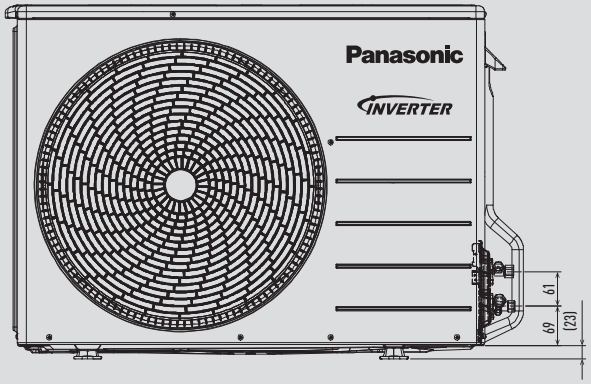
**Top View**



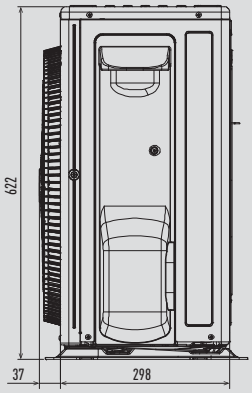

**Side View**



**Front View**

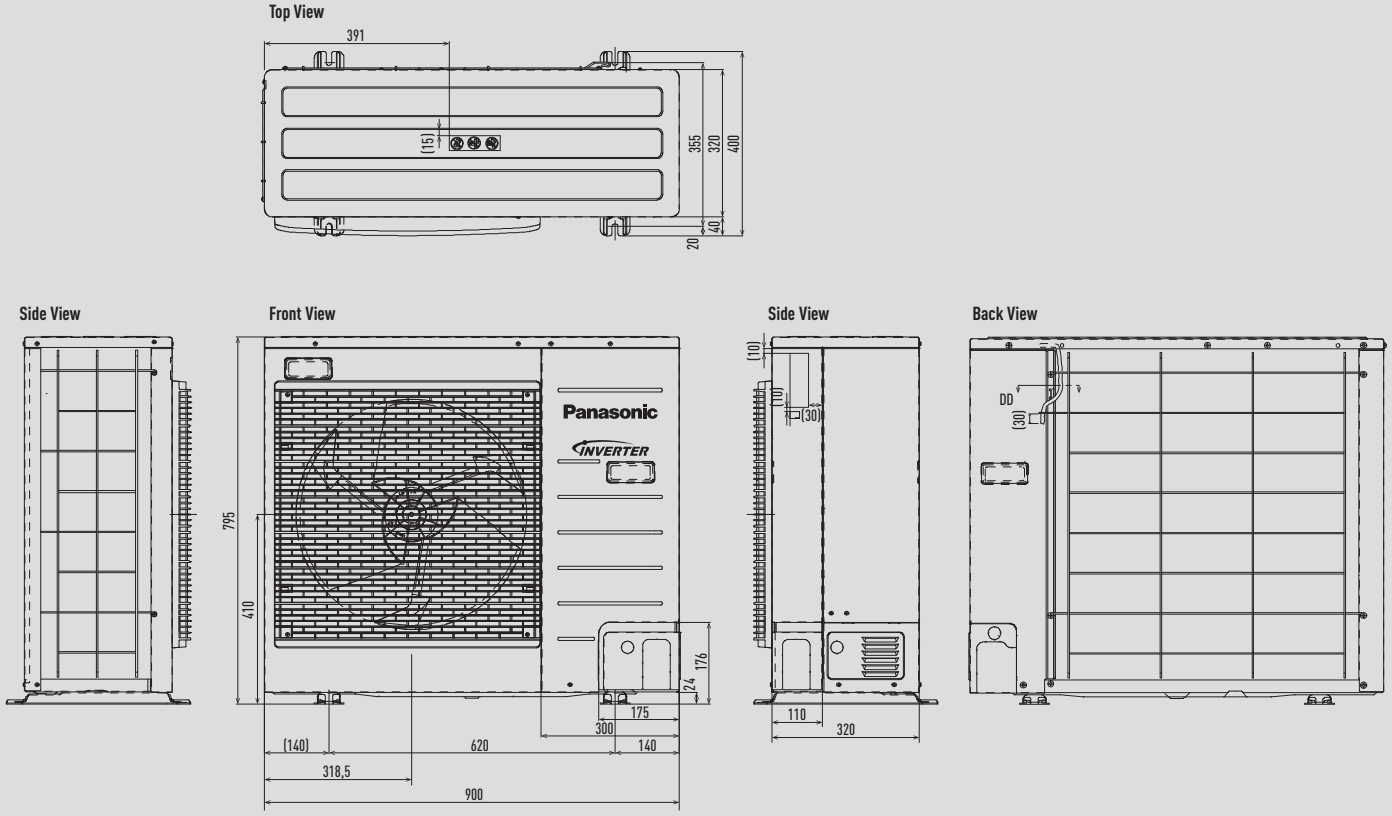



**Side View**



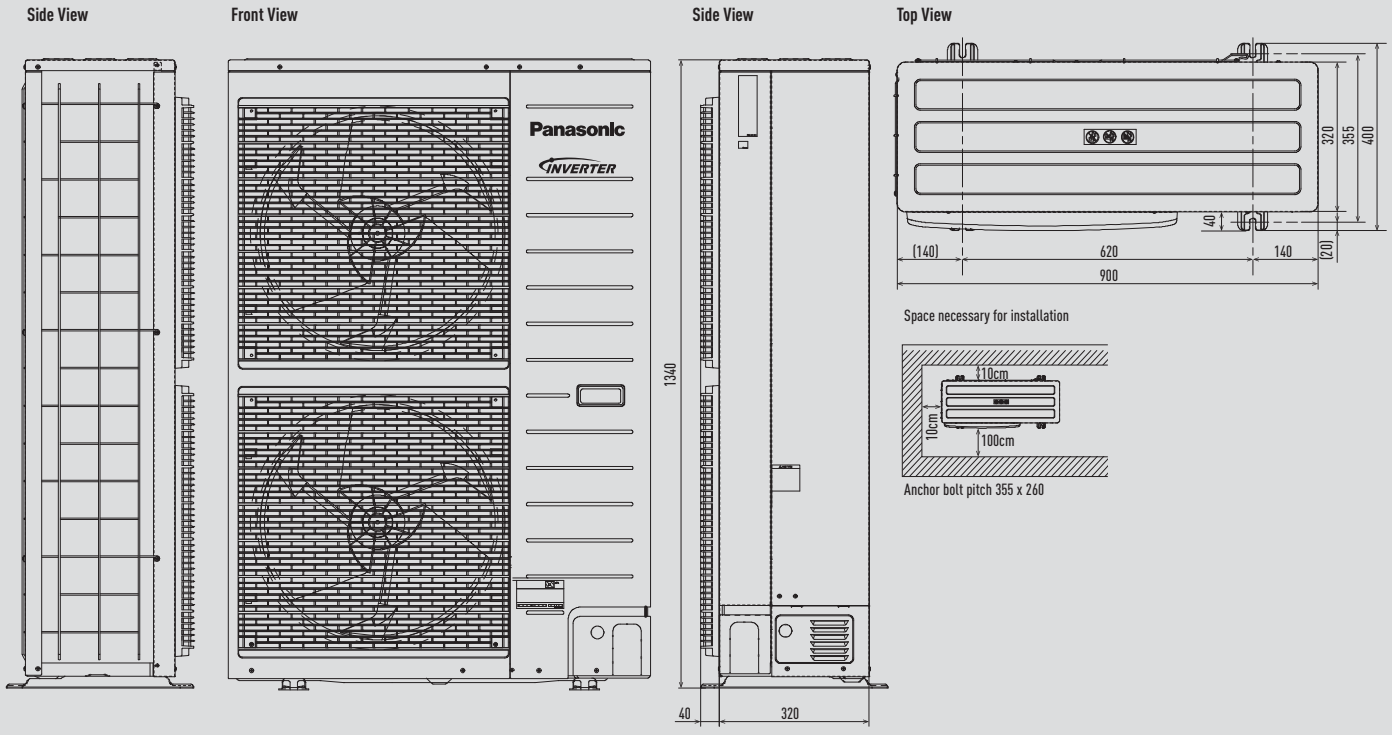

Unit: mm

## Bi-bloc outdoor unit 7 and 9kW



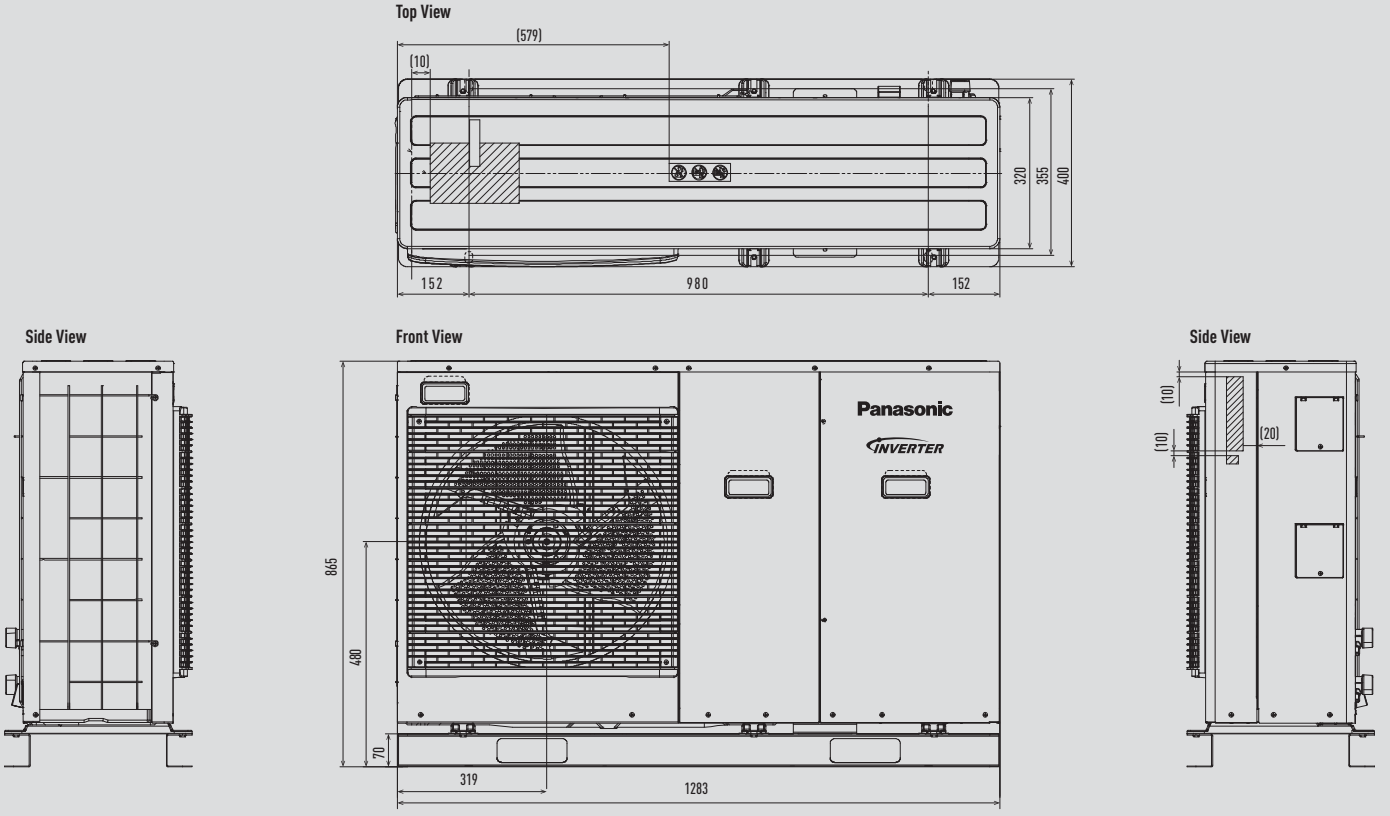

Unit: mm

## Bi-bloc outdoor unit from 9 to 16kW



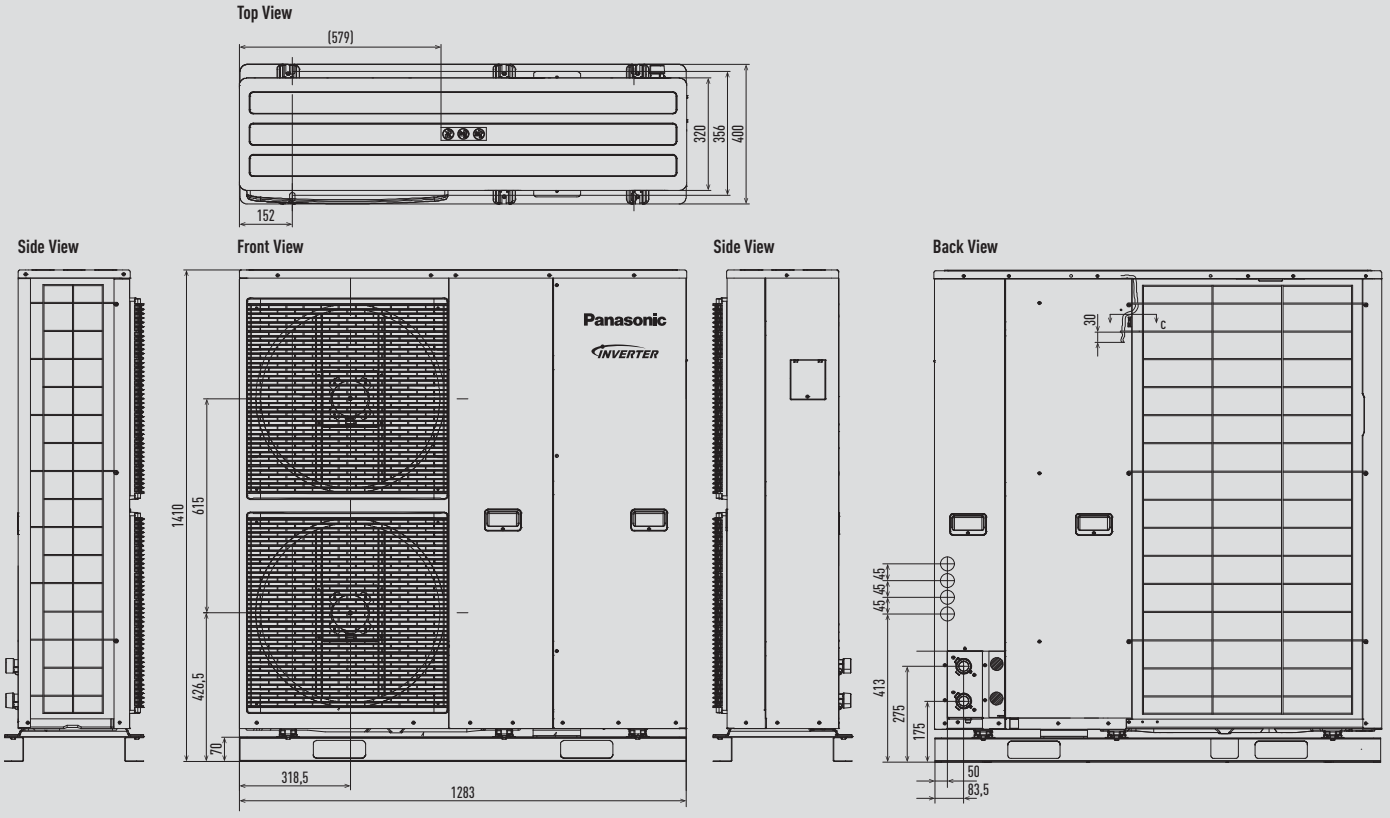

Unit: mm

## Mono-bloc outdoor unit from 5 to 9kW



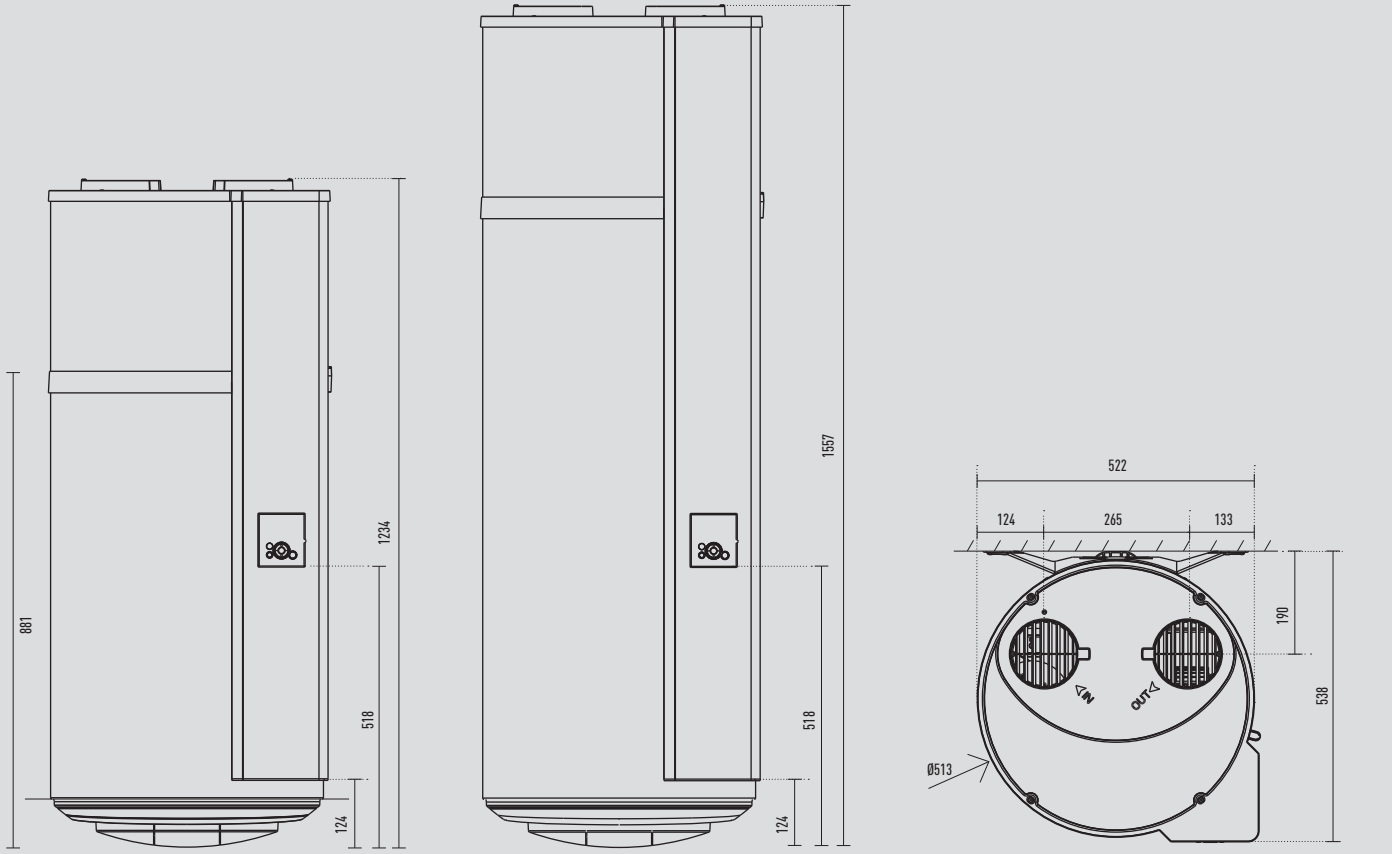

Unit: mm

## Bi-bloc Super Quiet outdoor unit and Mono-bloc outdoor unit from 9 to 16kW



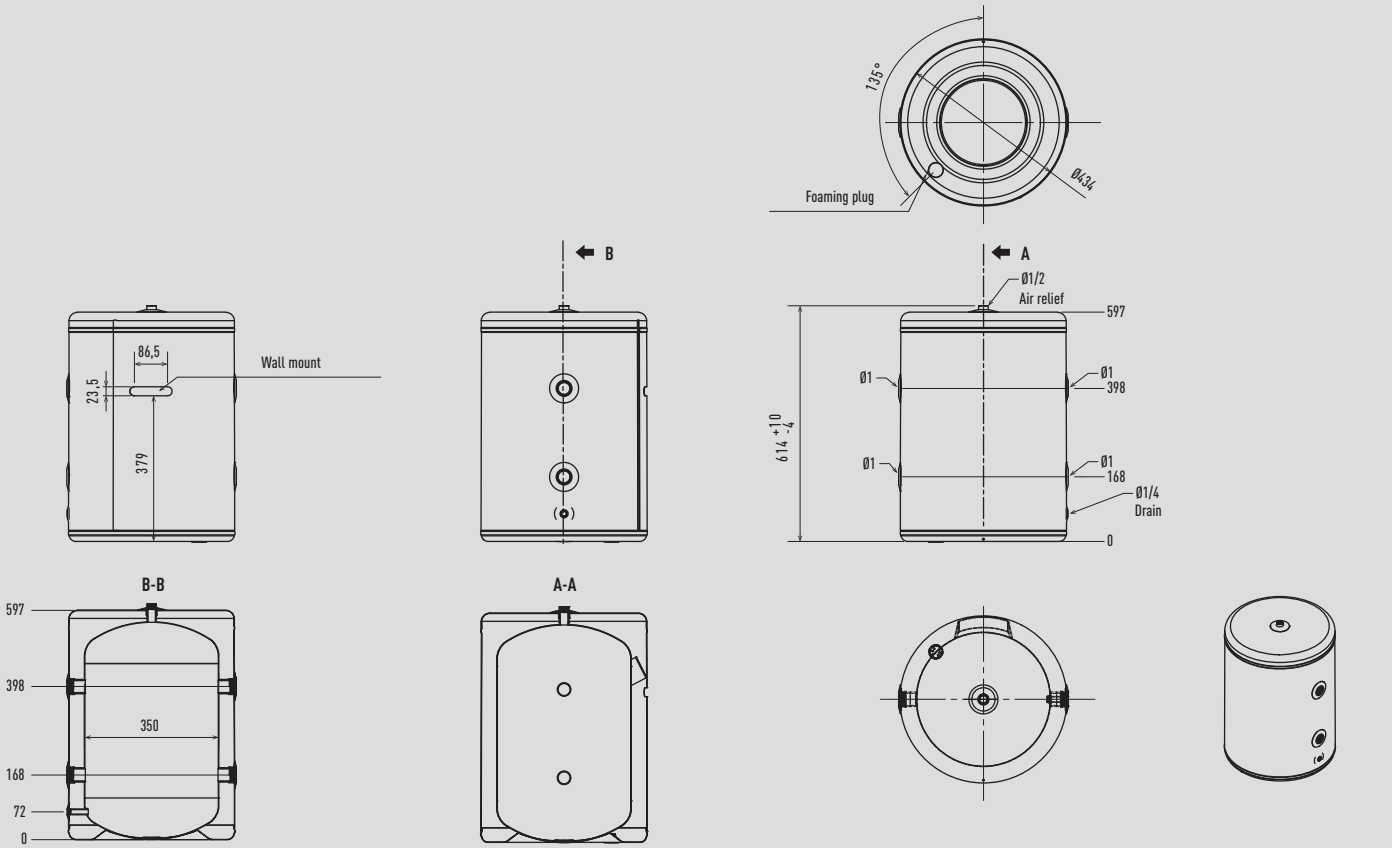

Unit: mm

## DHW Stand Alone




Unit: mm

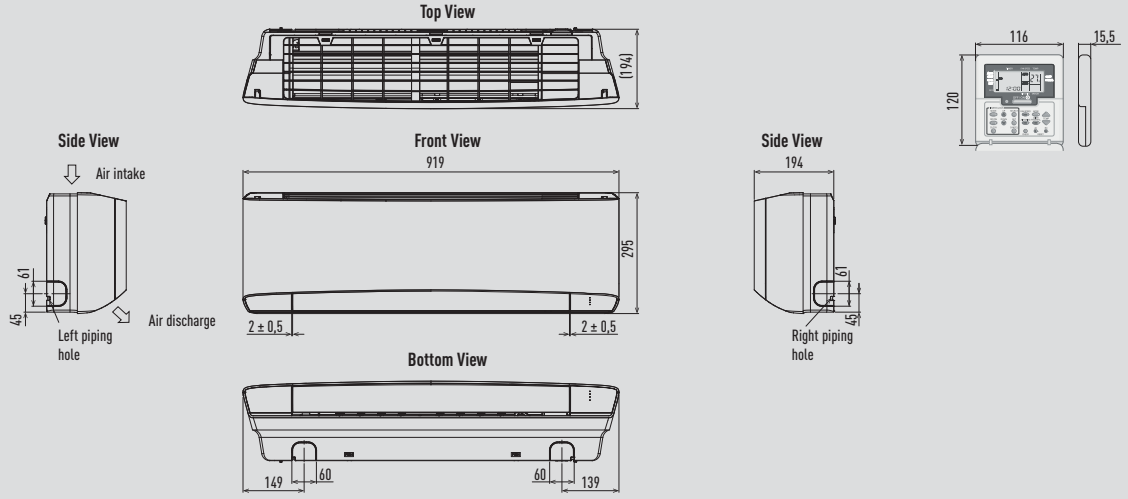
## Buffer tank



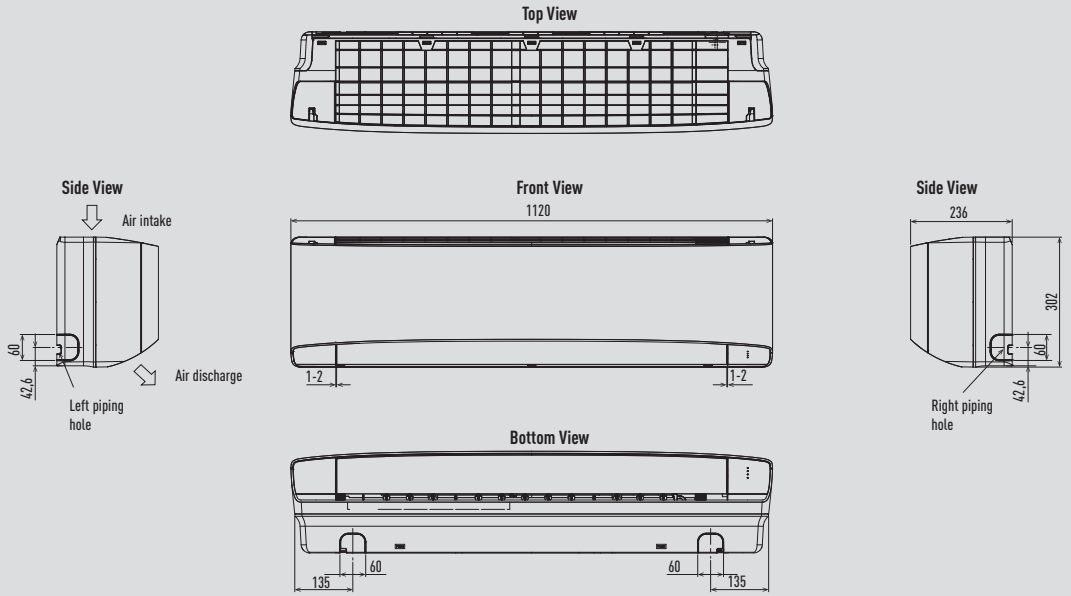

Unit: mm

## Wall Mounted TKEA

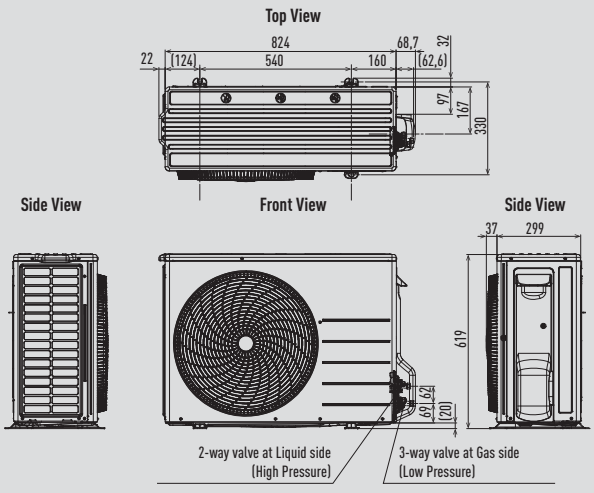
### CS-Z25TKEA / CS-Z35TKEA



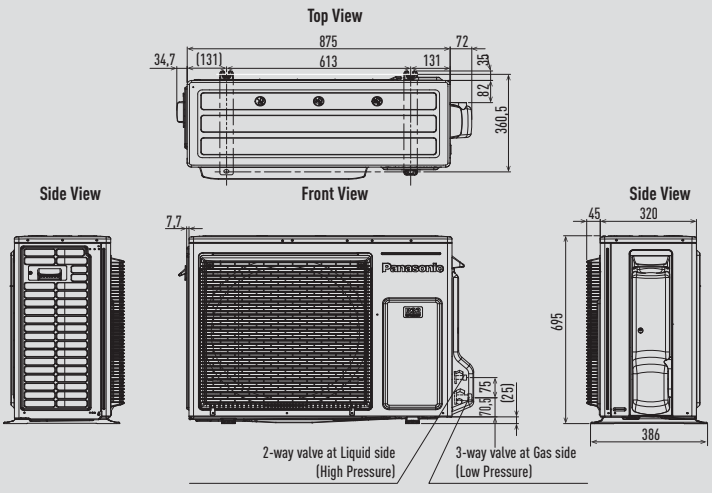

### CS-Z42TKEA / CS-Z50TKEA / CS-Z71TKEA




### CU-Z25TKEA / CU-Z35TKEA / CU-Z42TKEA



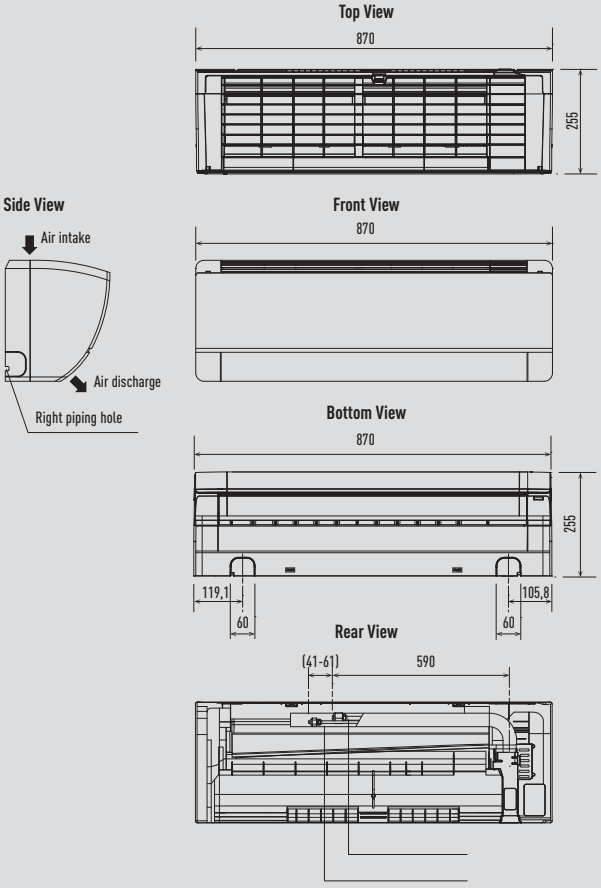

### CU-Z50TKEA / CU-Z71TKEA



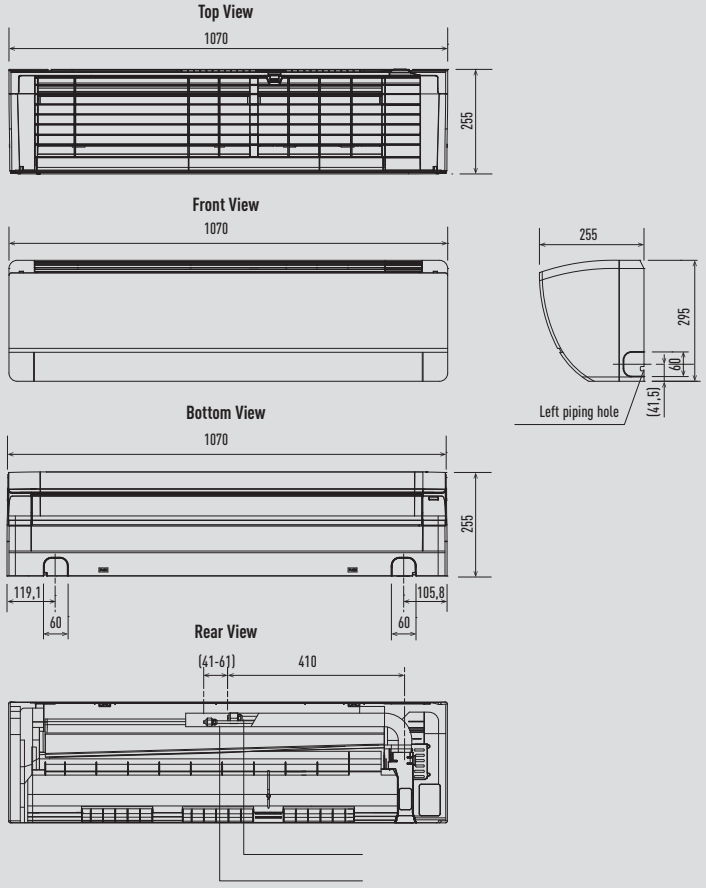

Unit: mm

## Wall Mounted PKEA

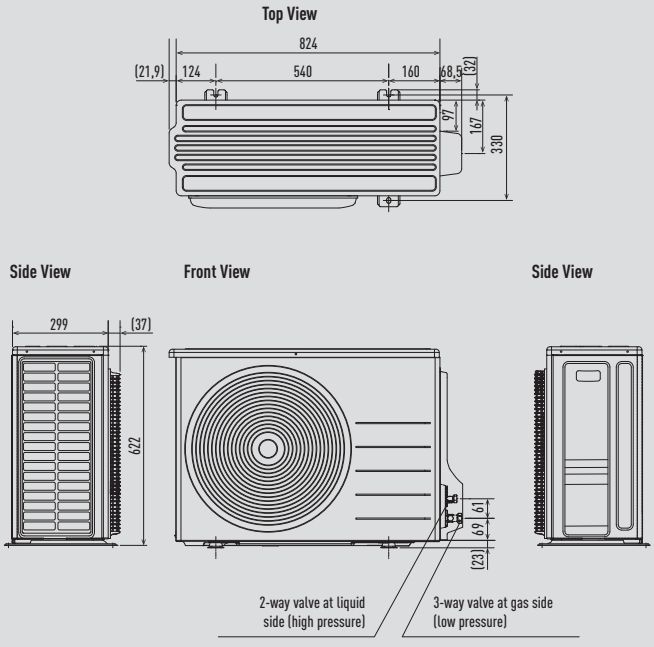
### CS-E9PKEA / CS-E12PKEA



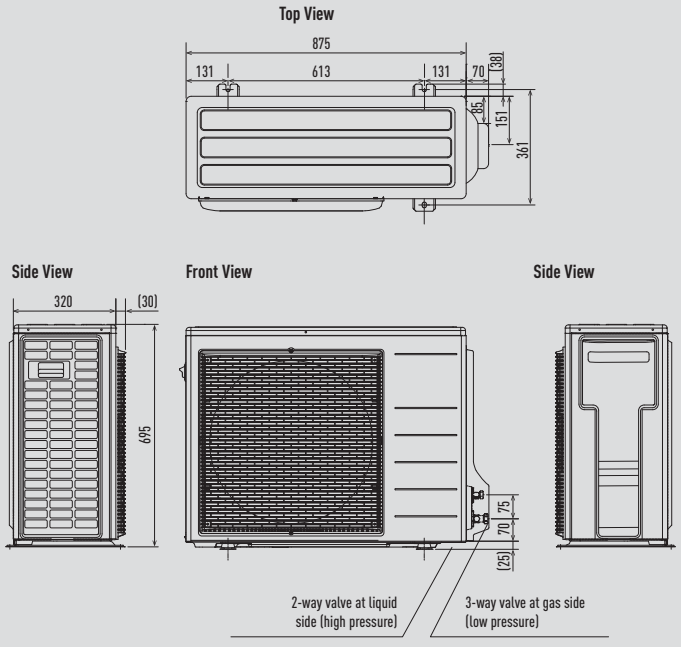

### CS-E15PKEA / CS-E18PKEA




### CU-E9PKEA / CU-E12PKEA

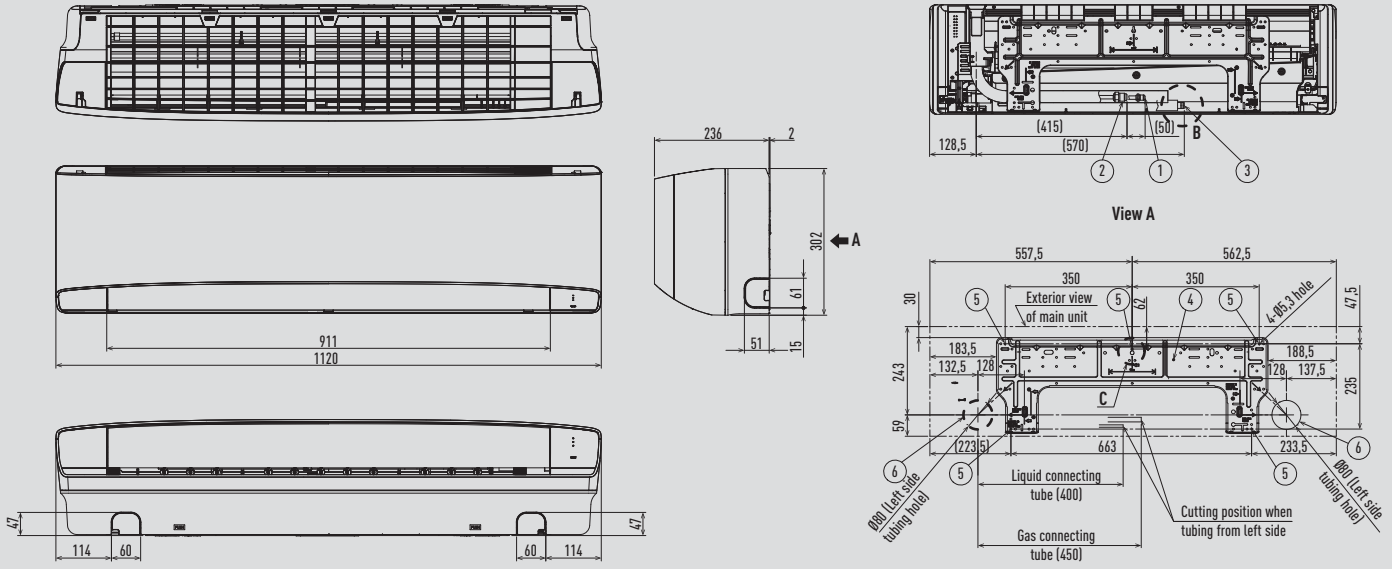


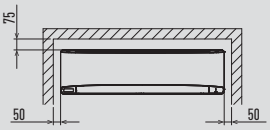

### CU-E15PKEA / CU-E18PKEA



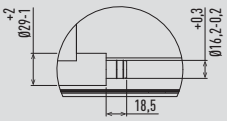

Unit: mm

## PACi Wall Mounted

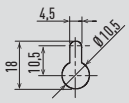



Minimum space requirements for installation




Detailed view B

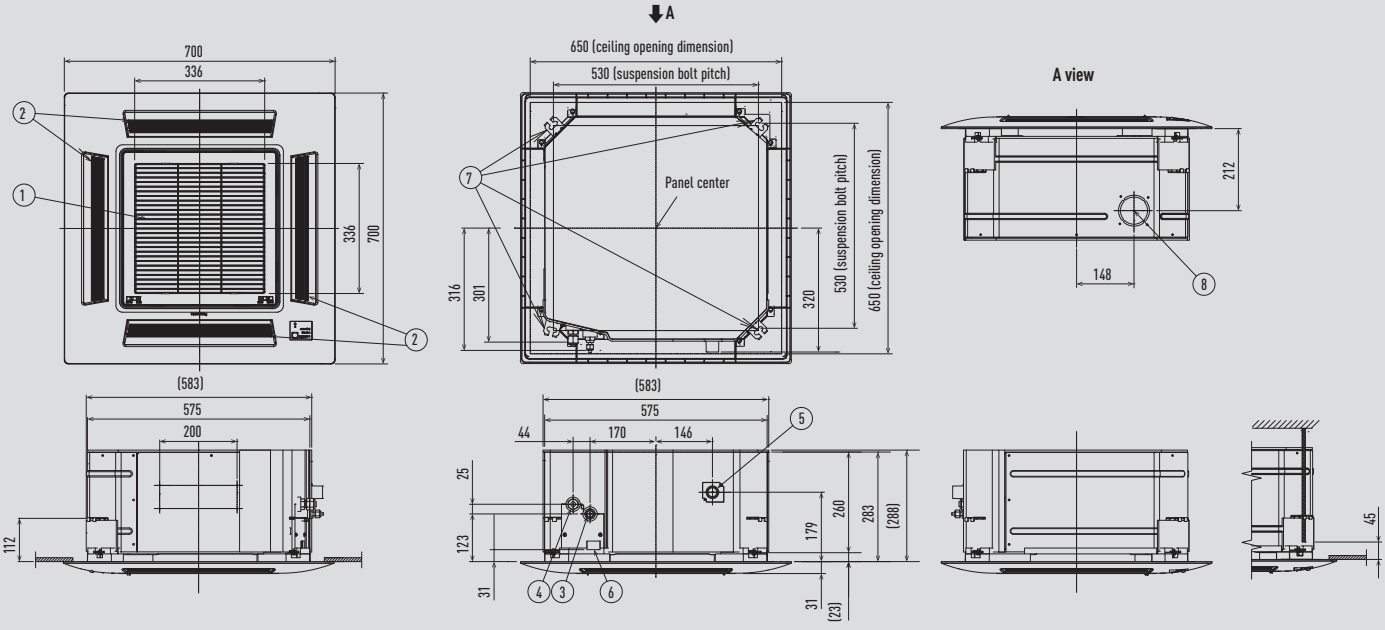


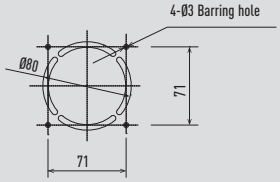

Detailed view C

| Type | | 36-50 | 60-100 |
|---|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø6,35 (flared) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø12,70 (flared) | Ø15,88 (flared) |
| 3 | Drain hose | | |
| 4 | Rear panel | | |
| 5 | Rear panel fixing holes (Ø5,3 holes or as shown in figure "C") | | |
| 6 | Tubing and wiring holes (Ø80) | | |

Unit: mm

## PACi 4-Way 60x60 Cassette



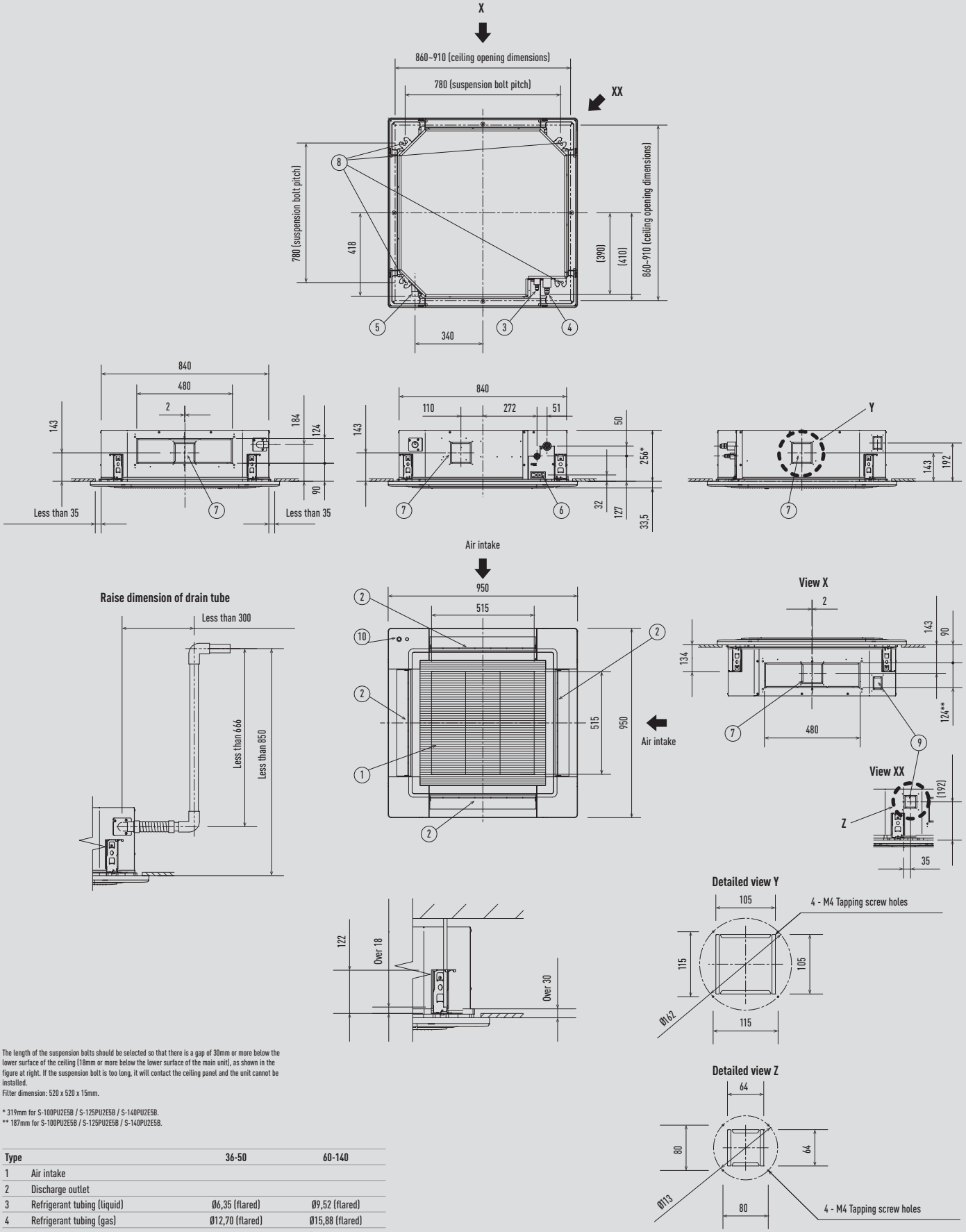

Dimension of Fresh air intake duct (field supply) connection port

Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 45mm or more, as shown in the figure at right.
If the suspension bolts is too long, it will contact the ceiling panel and the unit cannot be installed.

| | | |
|---|---|---|
| 1 | Air intake | |
| 2 | Discharge outlet | |
| 3 | Refrigerant tubing (liquid) | Ø6,35 (flared) |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) |
| 5 | Drain tube connection port VP25 | Outer diameter Ø32 |
| 6 | Power supply port | |
| 7 | Suspension bolt hole | 4-11 x 26 hole |
| 8 | Fresh air intake duct connection port | Ø80 |

Unit: mm

## PACi 4 Way 90x90 Cassette




The length of the suspension bolts should be selected so that there is a gap of 30mm or more below the lower surface of the ceiling (18mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.
Filter dimension: 520 x 520 x 15mm.

* 319mm for S-100PU2E5B / S-125PU2E5B / S-140PU2E5B.
** 187mm for S-100PU2E5B / S-125PU2E5B / S-140PU2E5B.

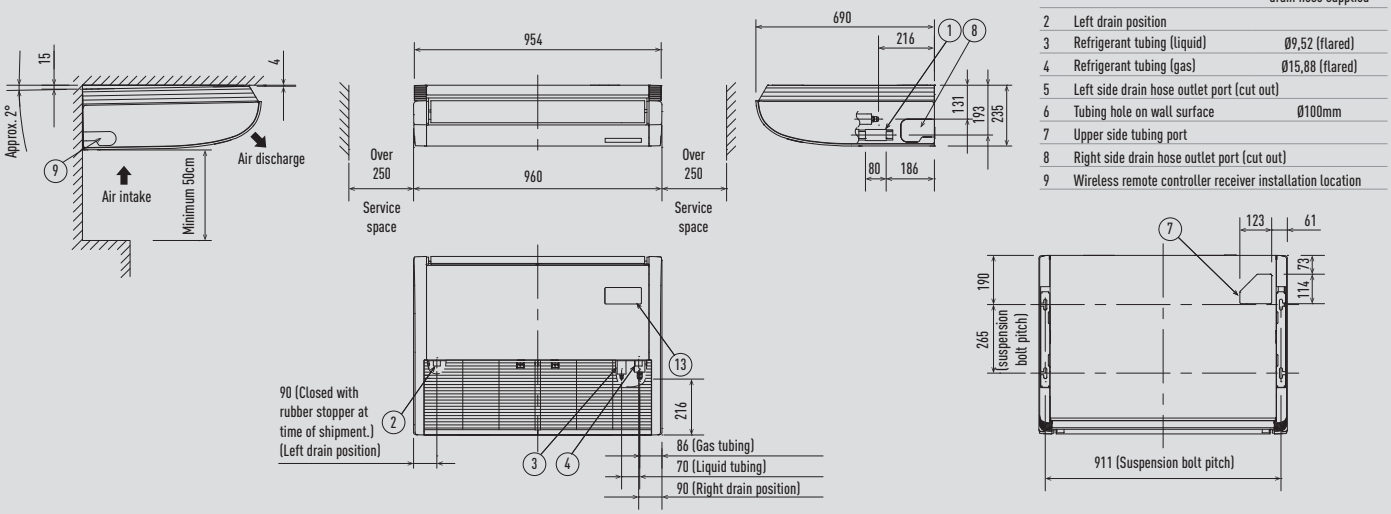
| Type | | 36-50 | 60-140 |
|---|---|---|---|
| 1 | Air intake | | |
| 2 | Discharge outlet | | |
| 3 | Refrigerant tubing (liquid) | Ø6,35 (flared) | Ø9,52 (flared) |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) | Ø15,88 (flared) |
| 5 | Drain tube connection port VP25 | Outer diameter Ø32 | |
| 6 | Power supply port | | |
| 7 | Suspension bolt hole | 4-12x30 elongated hole | |
| 8 | Fresh air intake duct connection port | Ø100 [1] | |
| 9 | Suspension bolt hole | 4-12x30 elongated hole | |
| 10 | Econavi sensor (Only CZ-KPU3A) | | |

1) Necessary to attach duct connecting flange(field supplied).

Unit: mm

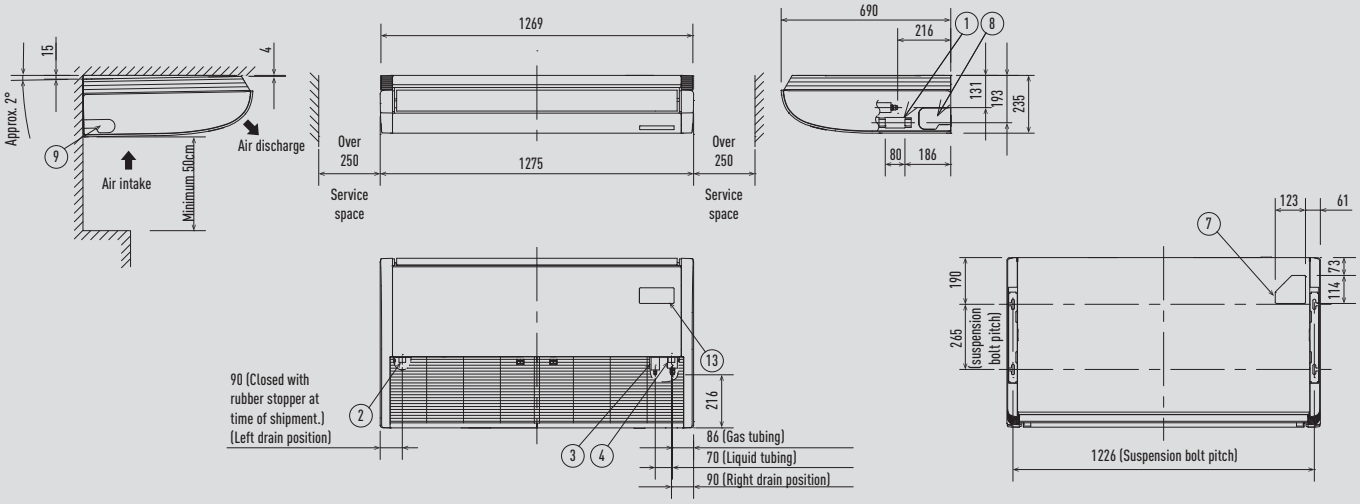
## PACi Ceiling

### S-36PT2E5B / S-45PT2E5B / S-50PT2E5B

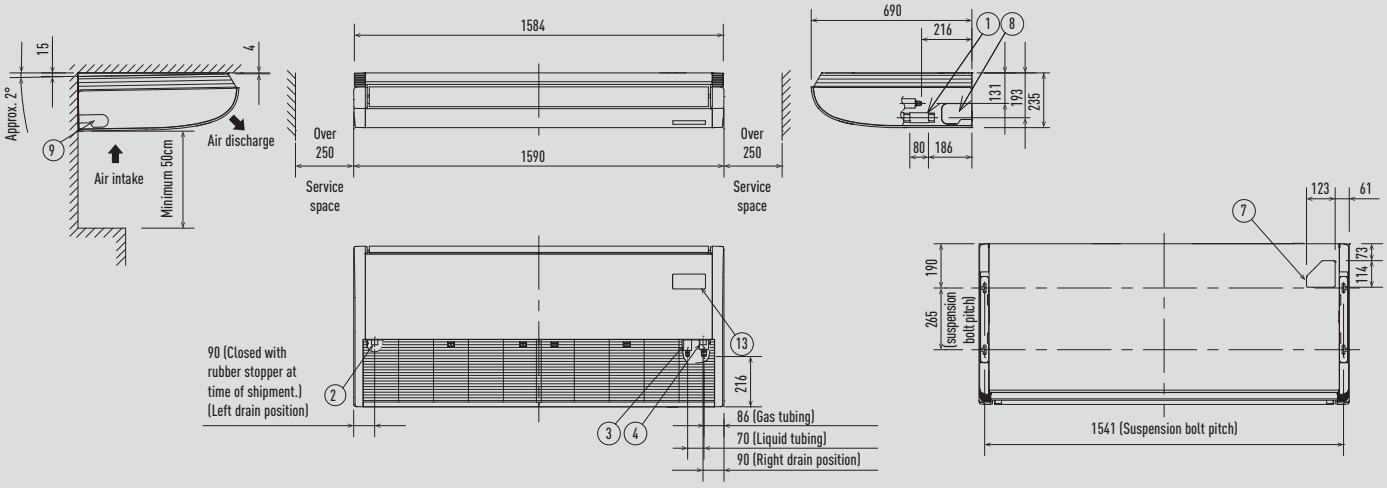



| | | |
|---|---|---|
| 1 | Drain tube connection port VP20 | Inside diameter Ø26mm, drain hose supplied |
| 2 | Left drain position | |
| 3 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 4 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 5 | Left side drain hose outlet port (cut out) | |
| 6 | Tubing hole on wall surface | Ø100mm |
| 7 | Upper side tubing port | |
| 8 | Right side drain hose outlet port (cut out) | |
| 9 | Wireless remote controller receiver installation location | |

### S-60PT2E5B / S-71PT2E5B



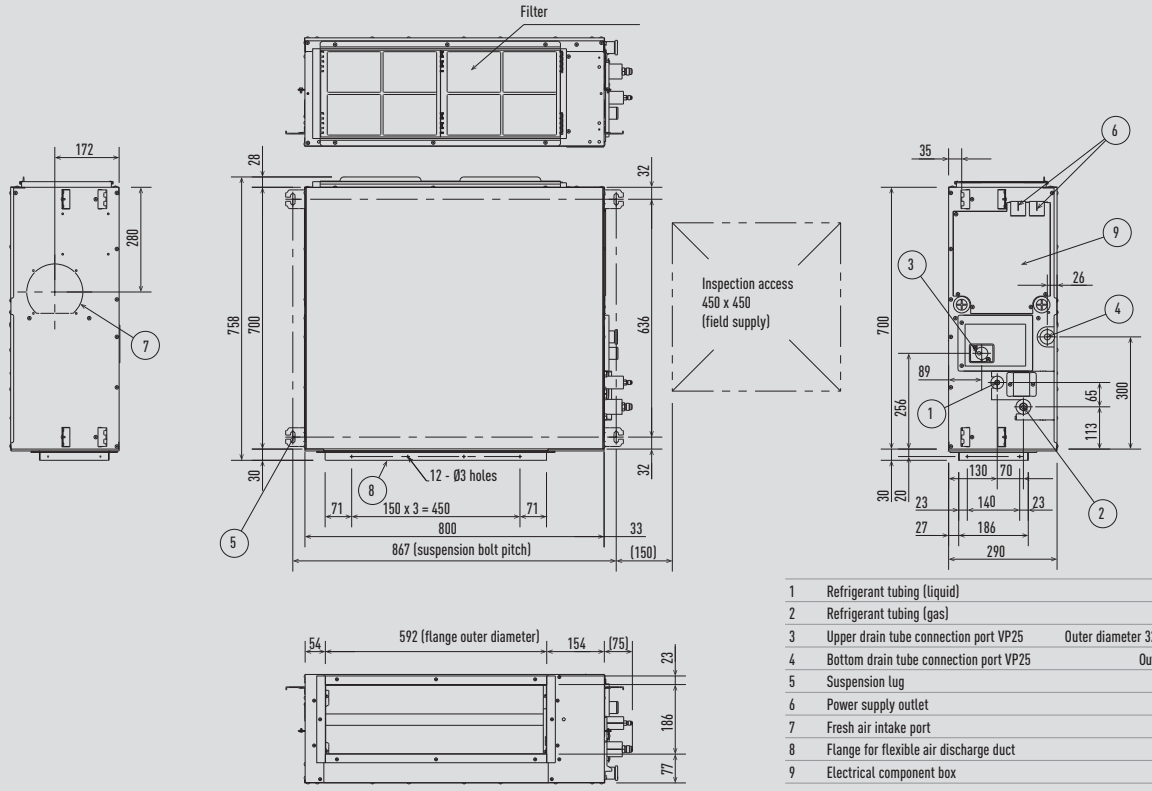

### S-100PT2E5B / S-125PT2E5B / S-140PT2E5B




Unit: mm

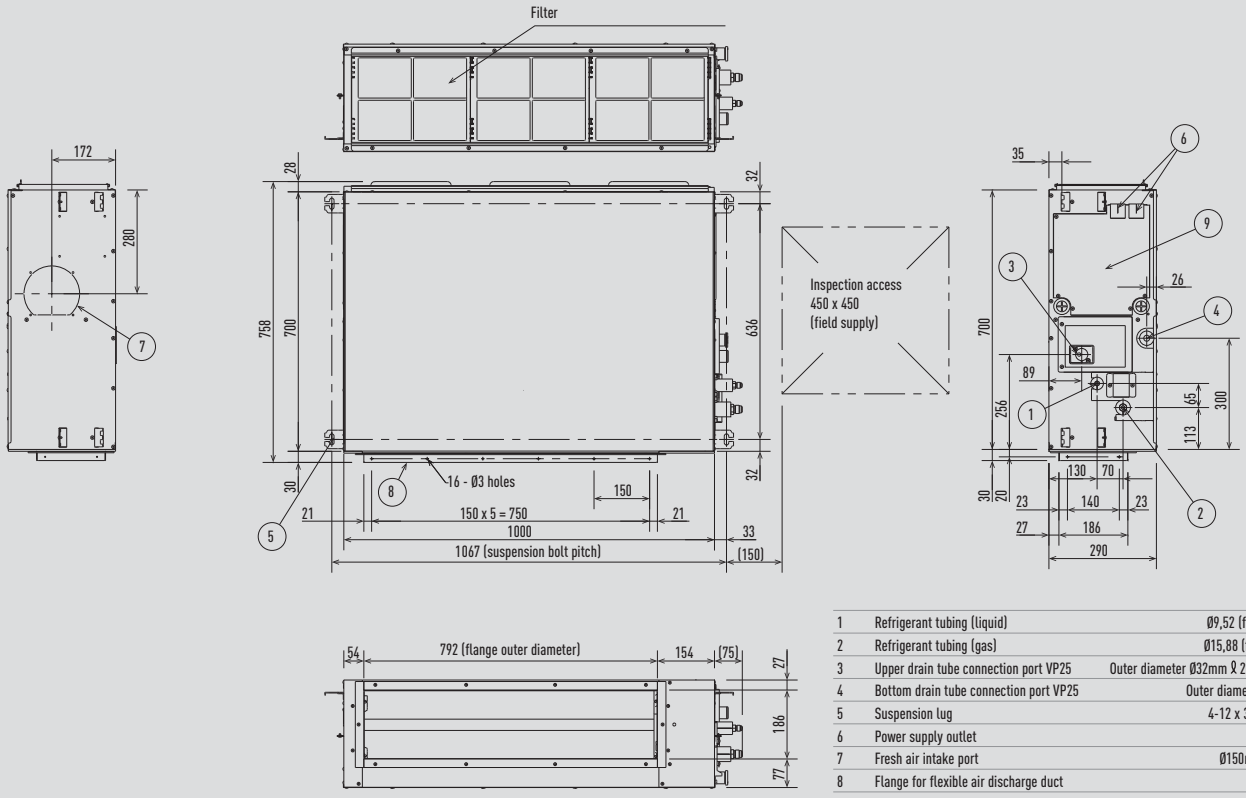
## PACi High Static Pressure Hide Away

**S-36PF1E5B / S-45PF1E5B / S-50PF1E5B**




| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø6,35 (flared) |
| 2 | Refrigerant tubing (gas) | Ø12,70 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter 32mm & 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter Ø32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

**S-60PF1E5B / S-71PF1E5B**

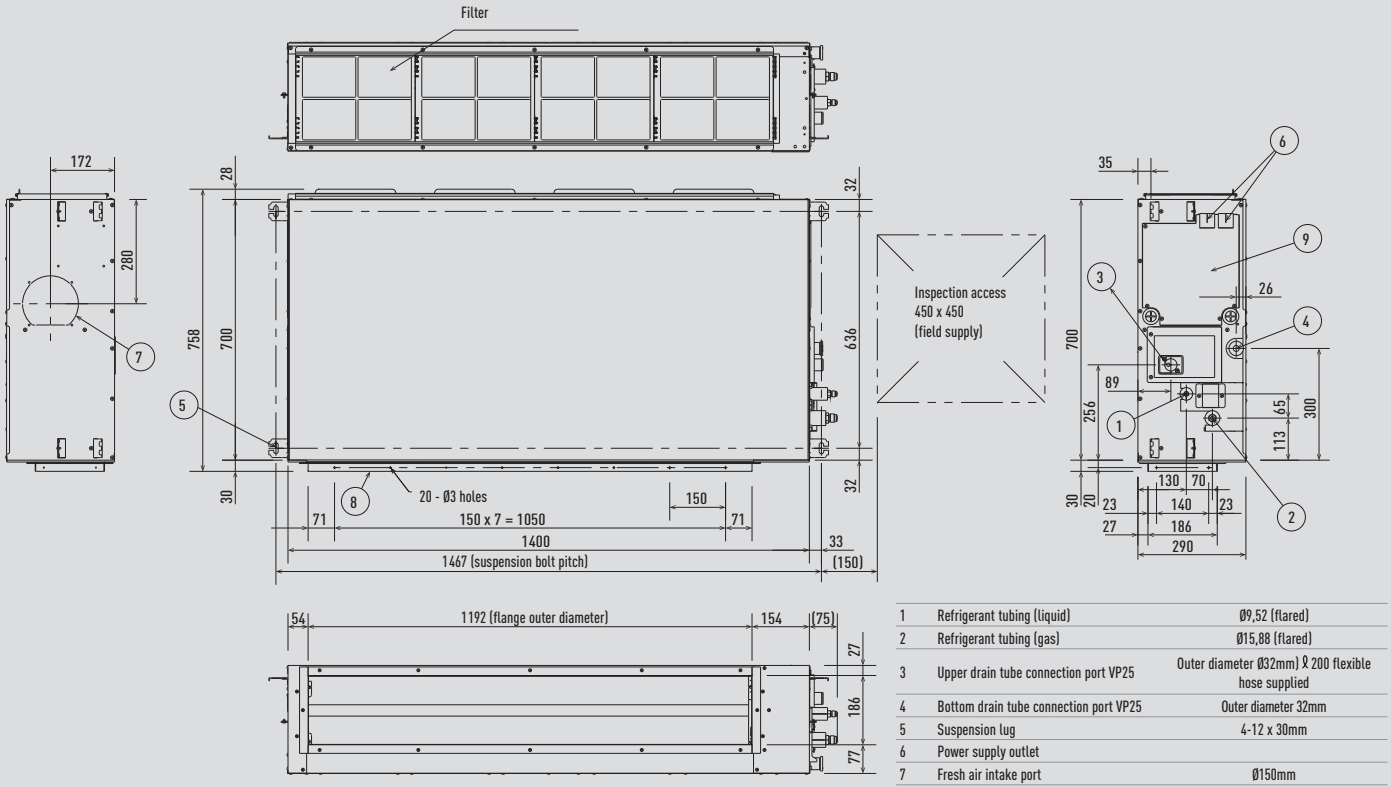



| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter Ø32mm & 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter 32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

Unit: mm

## High Static Pressure Hide Away (Cont.)

**S-100PF1E5B / S-125PF1E5B / S-140PF1E5B**

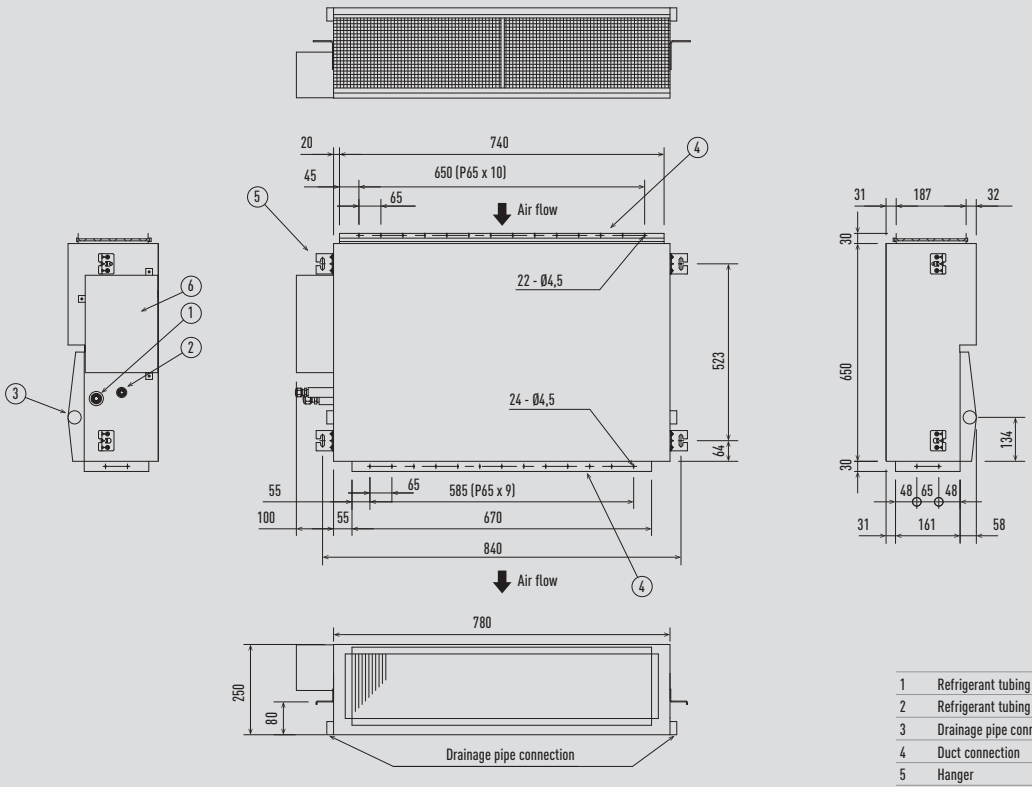



| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter Ø32mm ℓ 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter 32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

Unit: mm

## PACi Low Static Pressure Hide Away

**S-36PN1E5A / S-45PN1E5A / S-50PN1E5A**

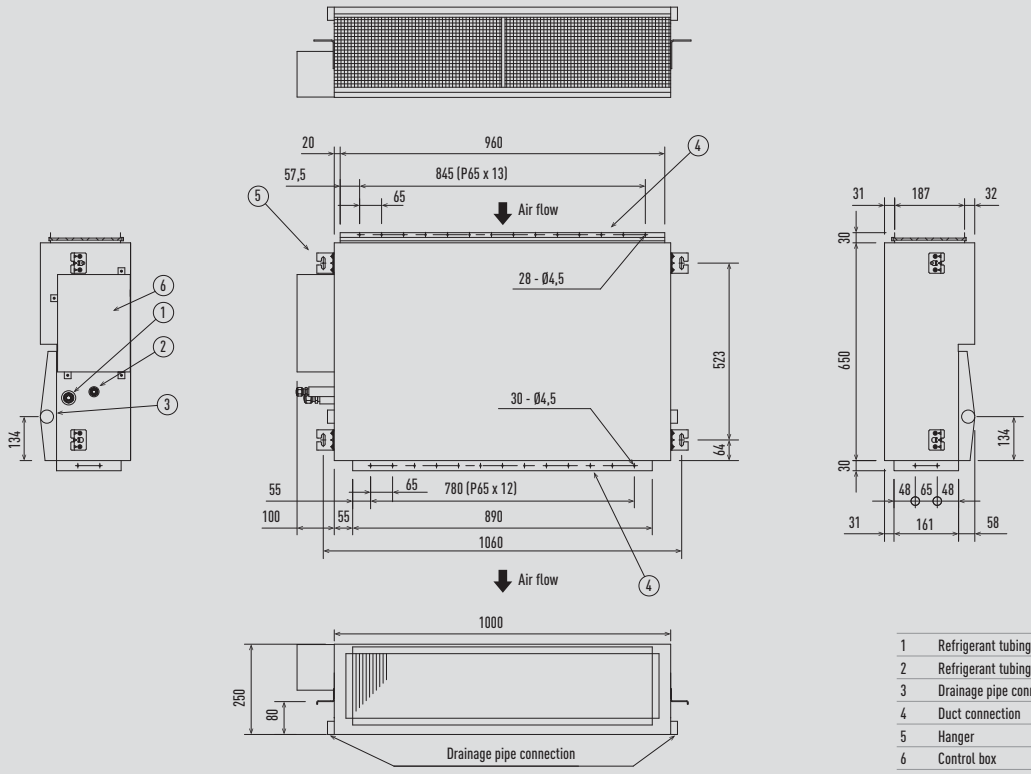



| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Outer diameter Ø12,70 (flared) |
| 2 | Refrigerant tubing (gas) | Outer diameter Ø6,35 (flared) |
| 3 | Drainage pipe connection | Female screw PT1" |
| 4 | Duct connection | |
| 5 | Hanger | |
| 6 | Control box | |

Unit: mm

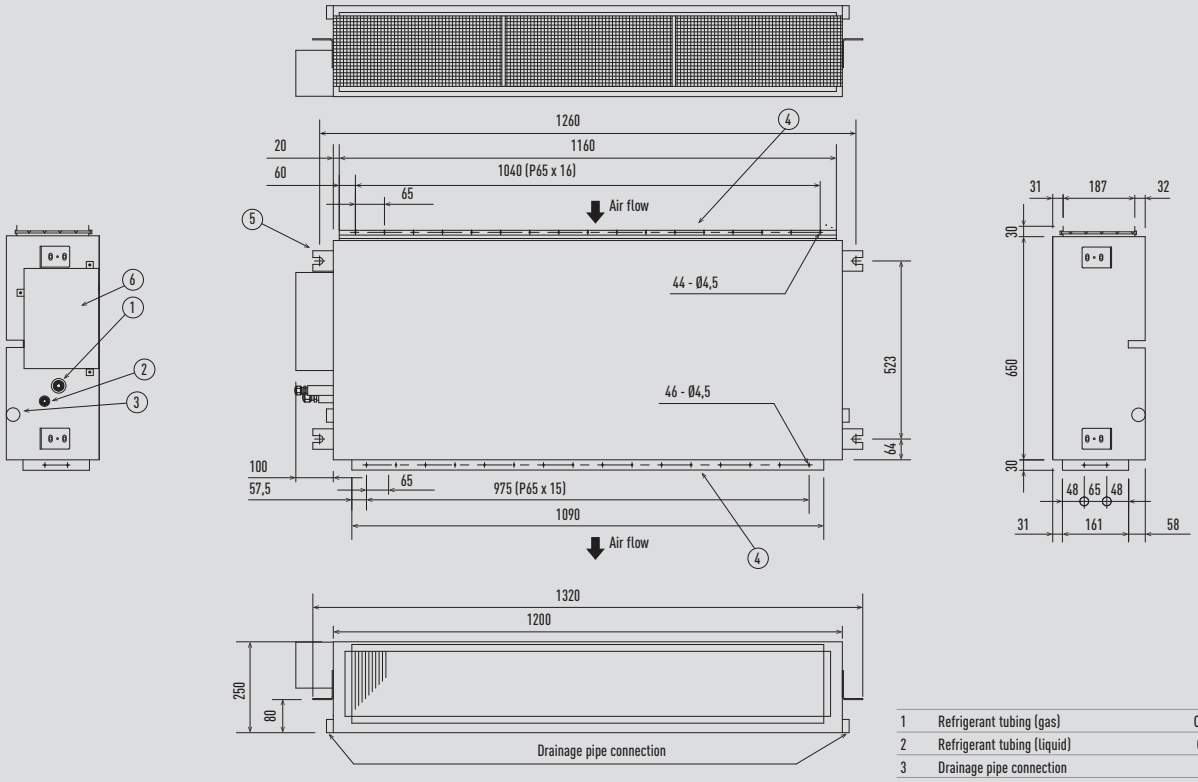
## PACi Low Static Pressure Hide Away (Cont.)

**S-60PN1E5A / S-71PN1E5A**




| | | |
|---|---|---|
| 1 | Refrigerant tubing (gas) | Outer diameter Ø15,88 (flared)d |
| 2 | Refrigerant tubing (liquid) | Outer diameter Ø9,52 (flared)d |
| 3 | Drainage pipe connection | Female screw PT1" |
| 4 | Duct connection | |
| 5 | Hanger | |
| 6 | Control box | |

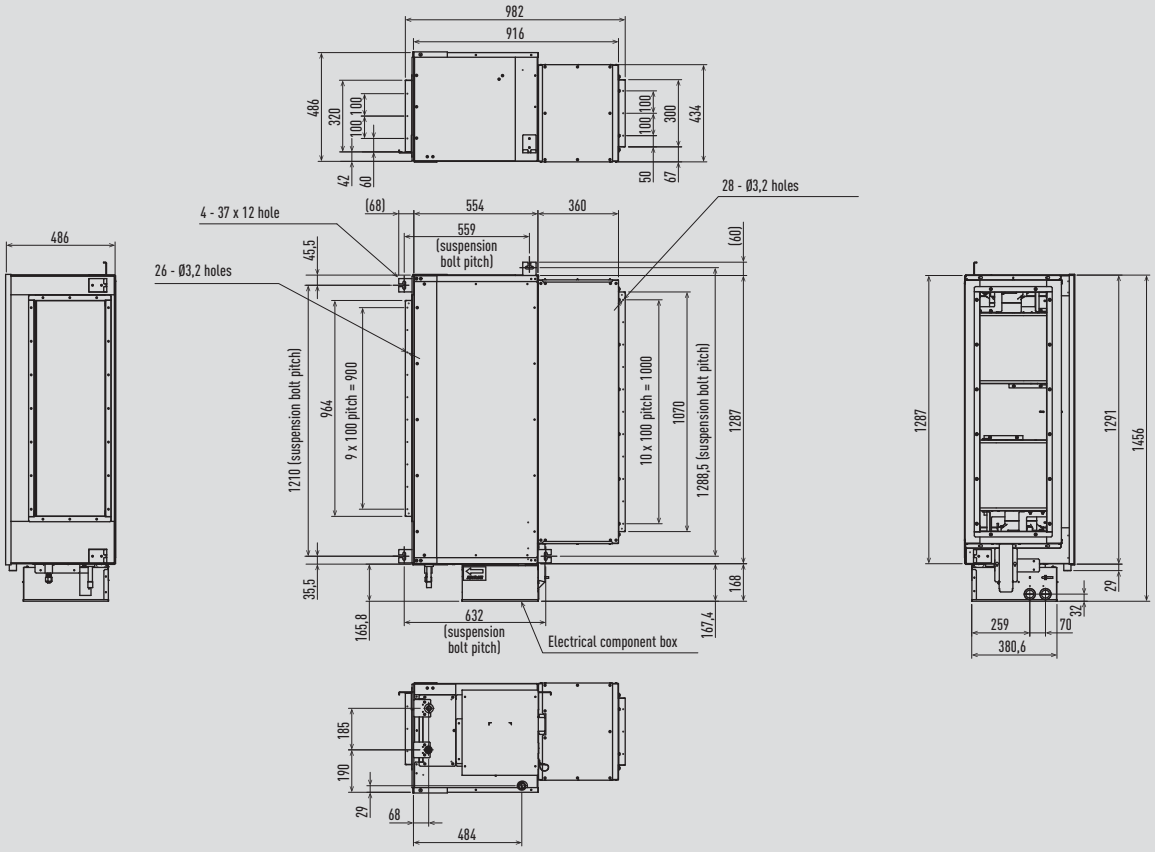
**S-100PN1E5A / S-125PN1E5A / S-140PN1E5A**




| | | |
|---|---|---|
| 1 | Refrigerant tubing (gas) | Outer diameter Ø15,88 (flared)d |
| 2 | Refrigerant tubing (liquid) | Outer diameter Ø9,52 (flared)d |
| 3 | Drainage pipe connection | Female screw PT1" |
| 4 | Duct connection | |
| 5 | Hanger | |
| 6 | Control box | |

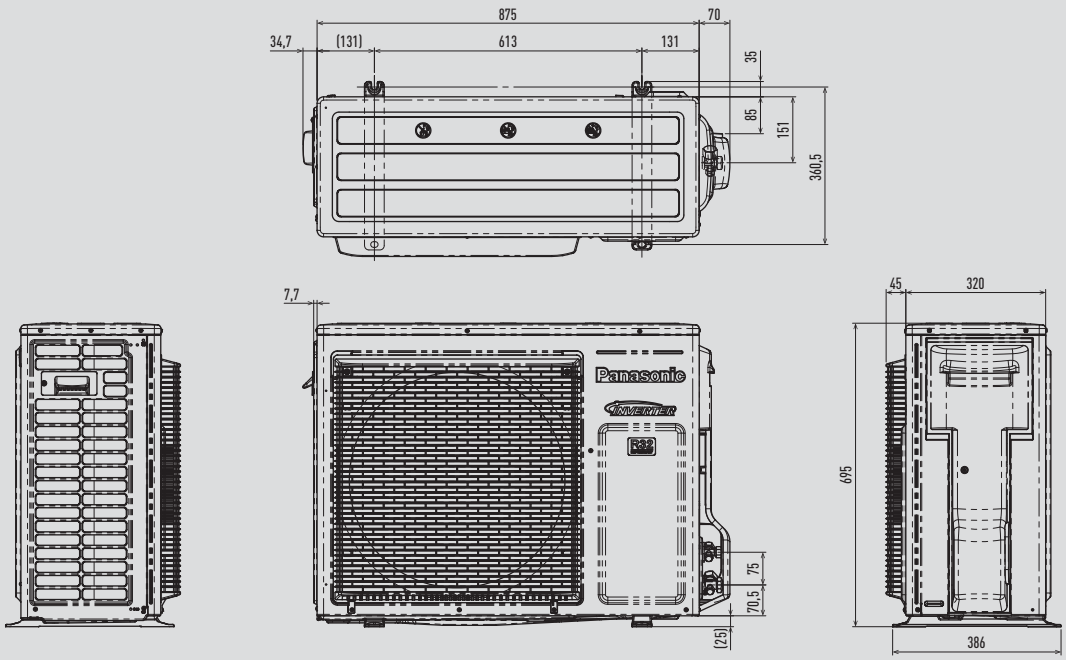
Unit: mm

## PACi High Static Pressure Hide Away 20,00-25,00kW



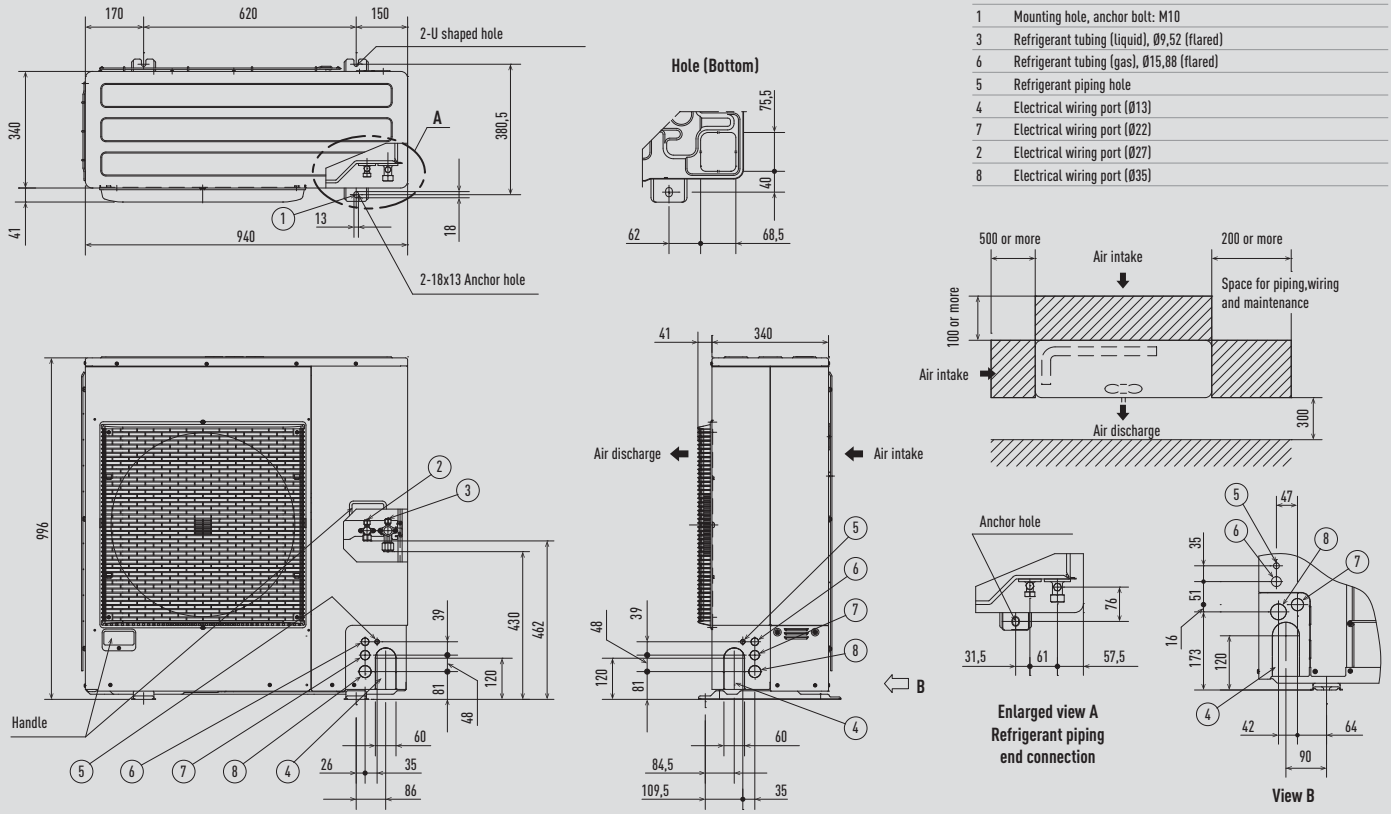

Unit: mm

## PACi R32 outdoor unit: small 1 fan




Unit: mm

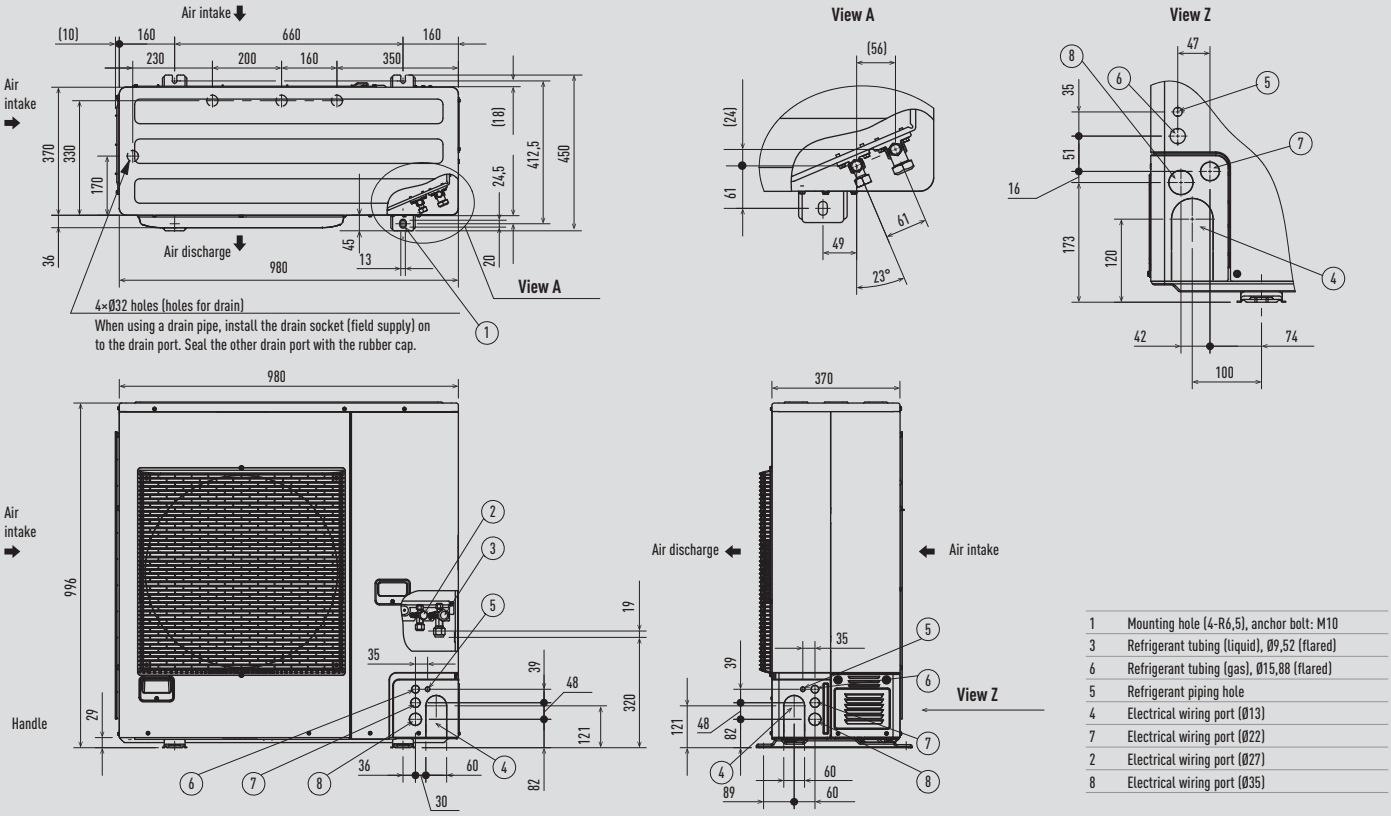
## PACi Elite R32 outdoor unit: medium 1 fan




| | |
|---|---|
| 1 | Mounting hole, anchor bolt: M10 |
| 3 | Refrigerant tubing (liquid), Ø9,52 (flared) |
| 6 | Refrigerant tubing (gas), Ø15,88 (flared) |
| 5 | Refrigerant piping hole |
| 4 | Electrical wiring port (Ø13) |
| 7 | Electrical wiring port (Ø22) |
| 2 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

Unit: mm

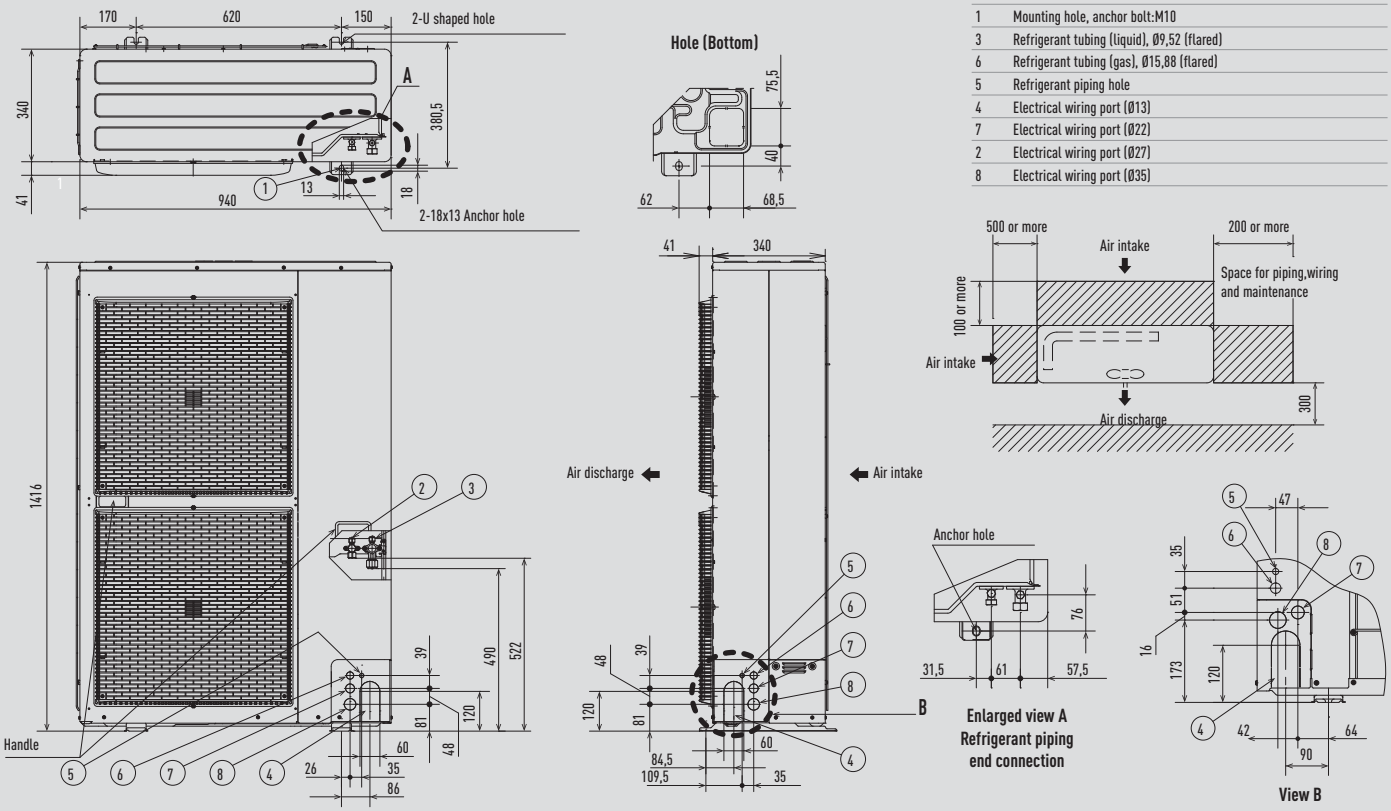
## PACi Standard R32 outdoor unit: medium 1 fan




| | |
|---|---|
| 1 | Mounting hole (4-R6,5), anchor bolt: M10 |
| 3 | Refrigerant tubing (liquid), Ø9,52 (flared) |
| 6 | Refrigerant tubing (gas), Ø15,88 (flared) |
| 5 | Refrigerant piping hole |
| 4 | Electrical wiring port (Ø13) |
| 7 | Electrical wiring port (Ø22) |
| 2 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

Unit: mm

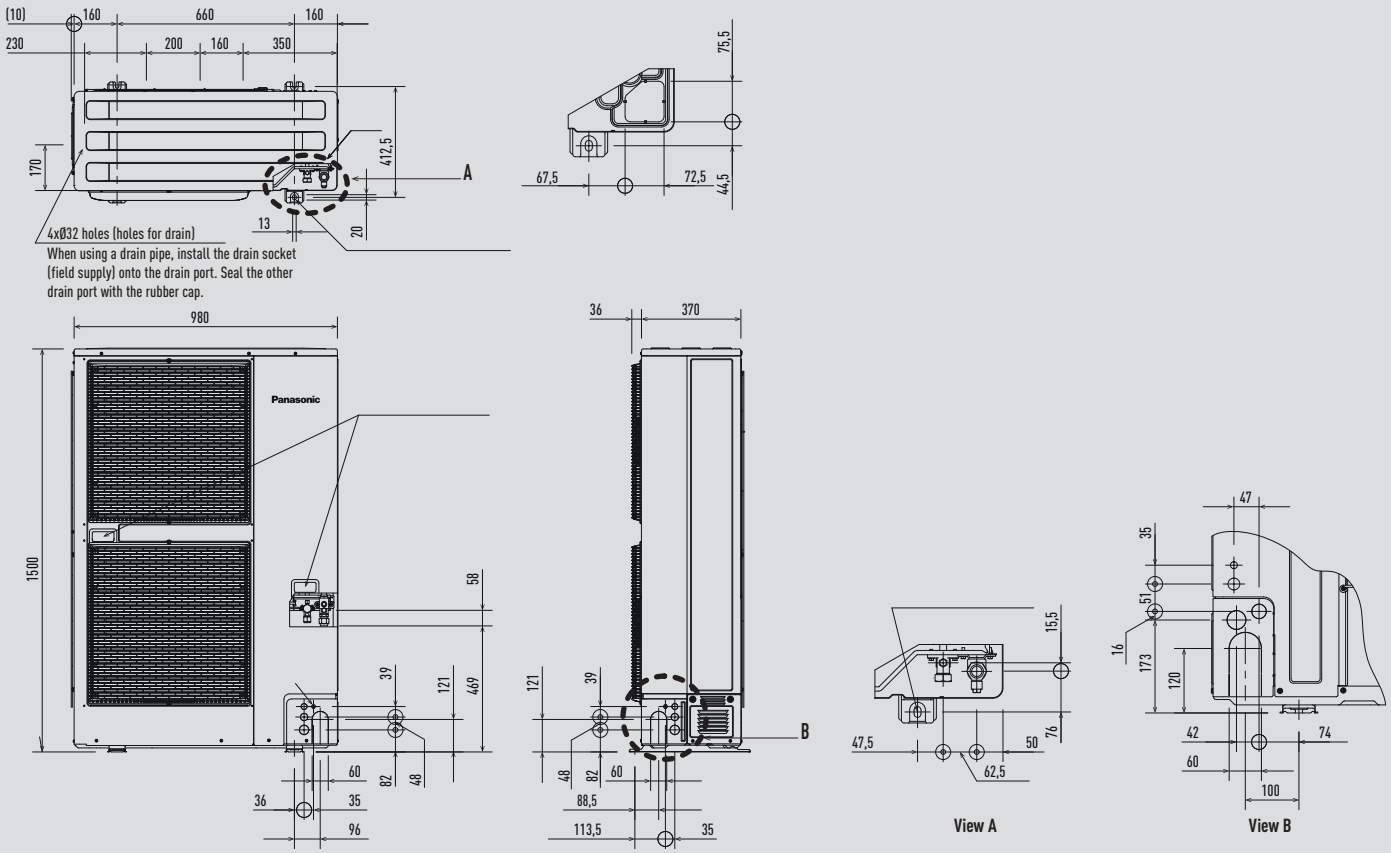
## PACi R32 outdoor unit: 2 fans




| | |
|---|---|
| 1 | Mounting hole, anchor bolt:M10 |
| 3 | Refrigerant tubing (liquid), Ø9,52 (flared) |
| 6 | Refrigerant tubing (gas), Ø15,88 (flared) |
| 5 | Refrigerant piping hole |
| 4 | Electrical wiring port (Ø13) |
| 7 | Electrical wiring port (Ø22) |
| 2 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

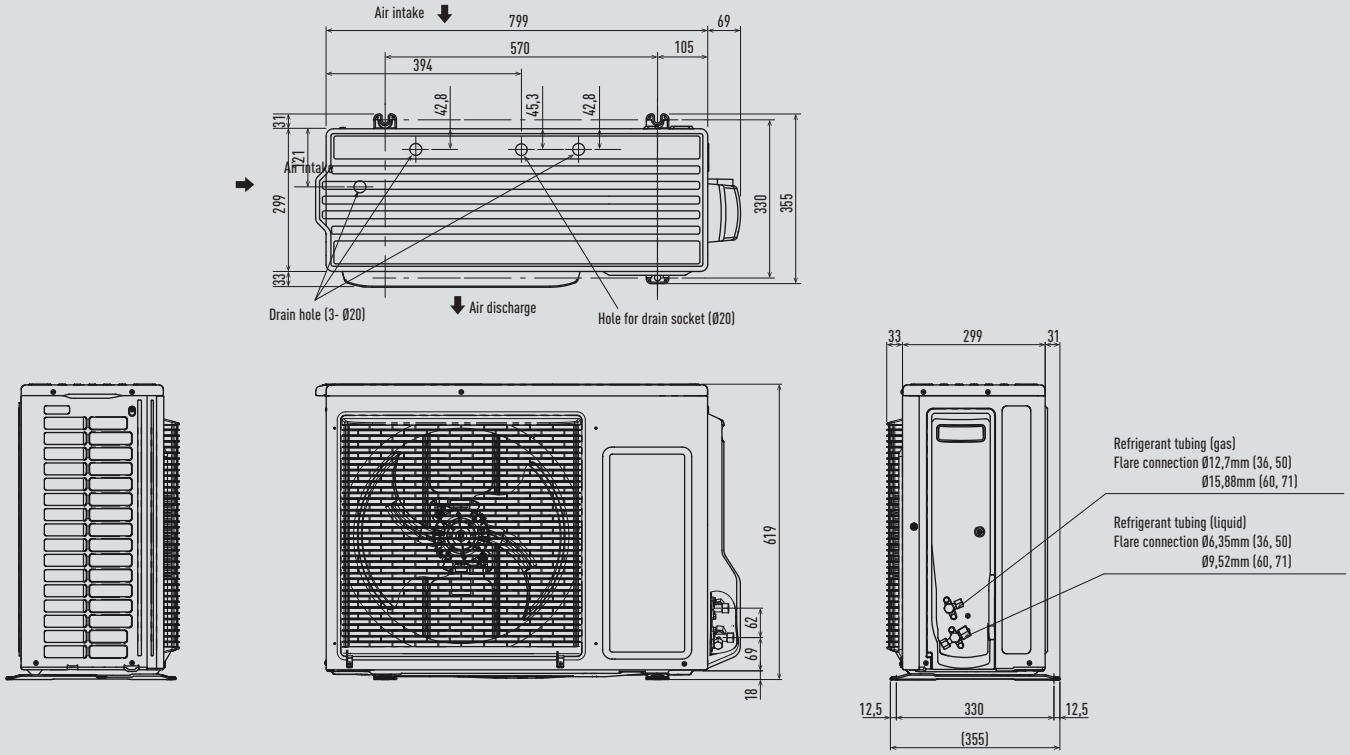
Unit: mm

## Big PACi R32 outdoor unit 20,00 and 25,00kW



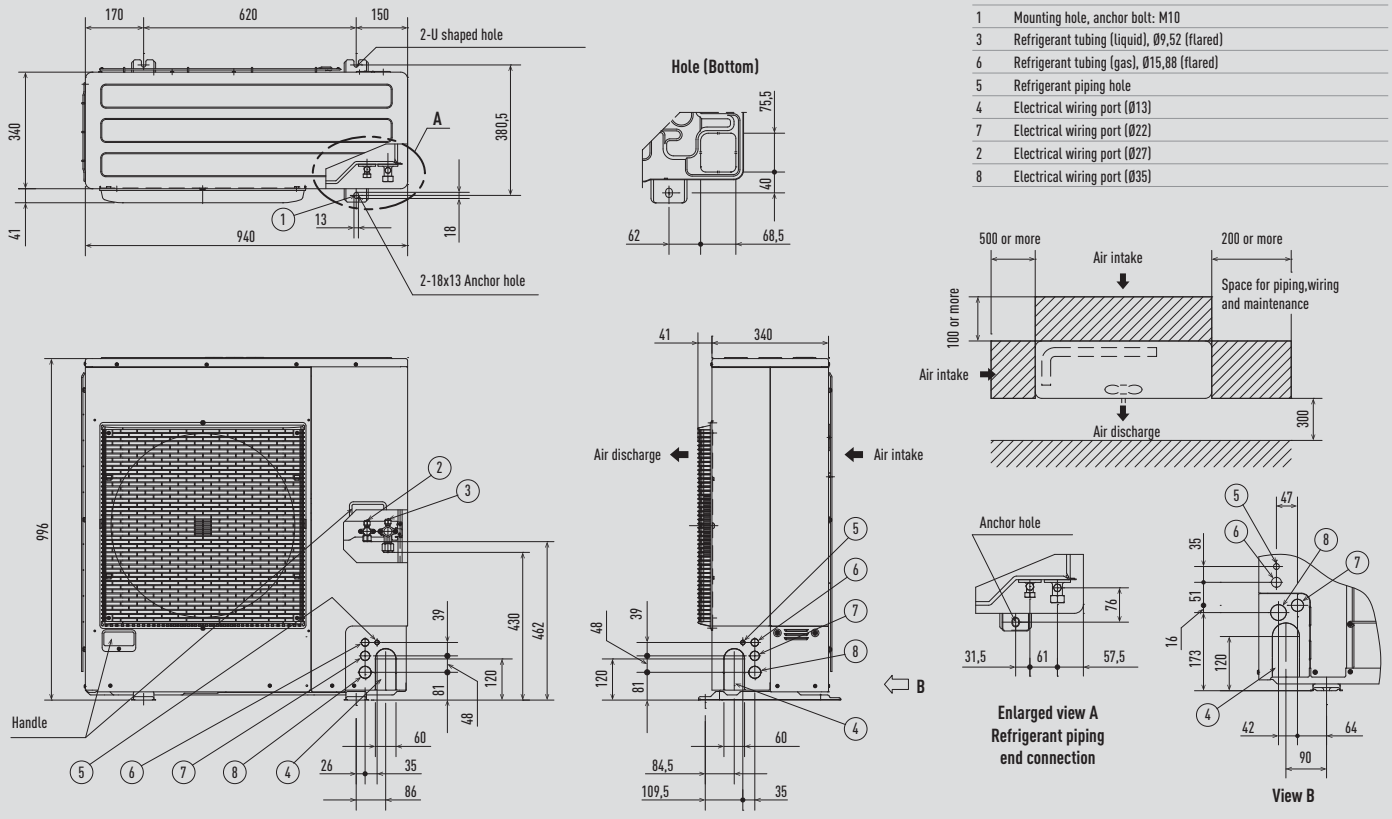

Unit: mm

## PACi R410A outdoor unit: small 1 fan



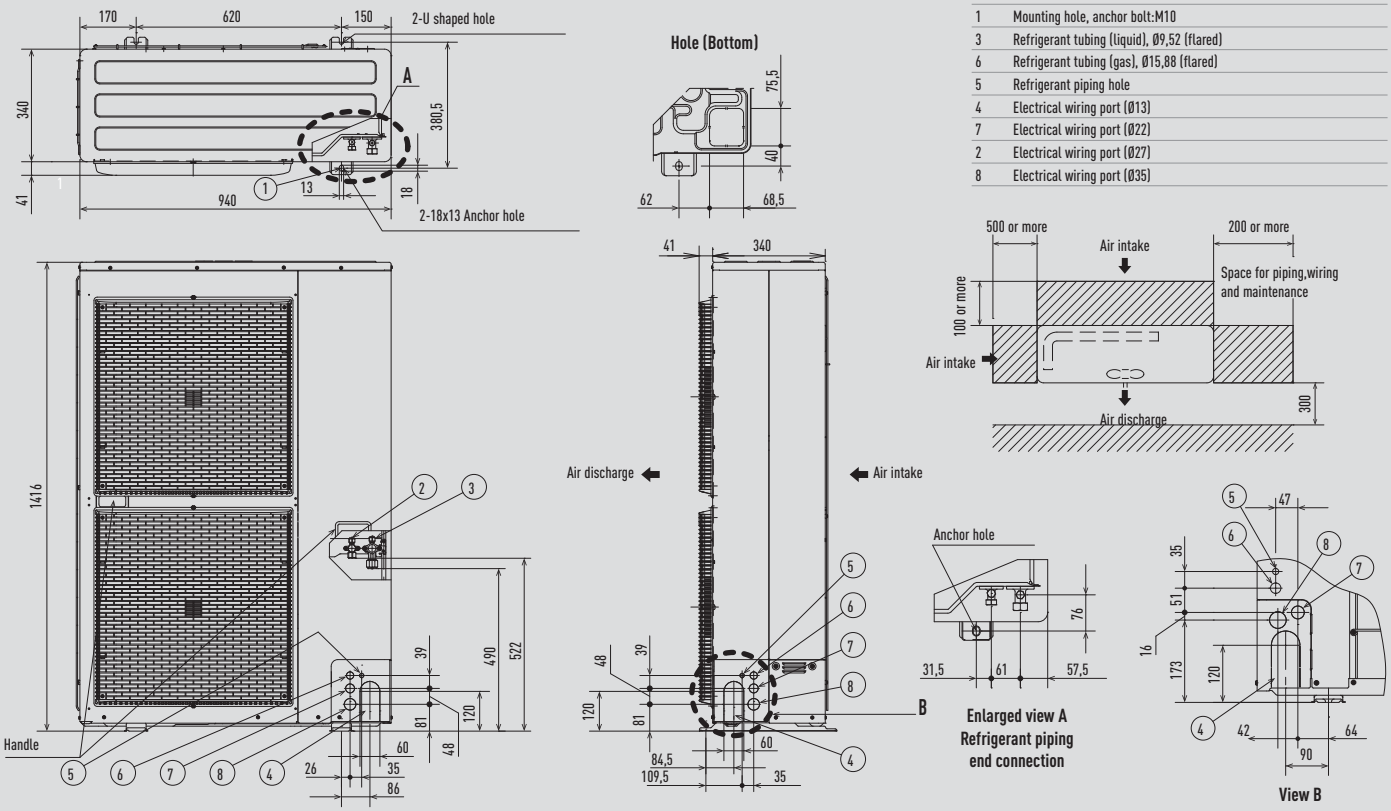

Unit: mm

## PACi R410A outdoor unit: medium 1 fan




Unit: mm

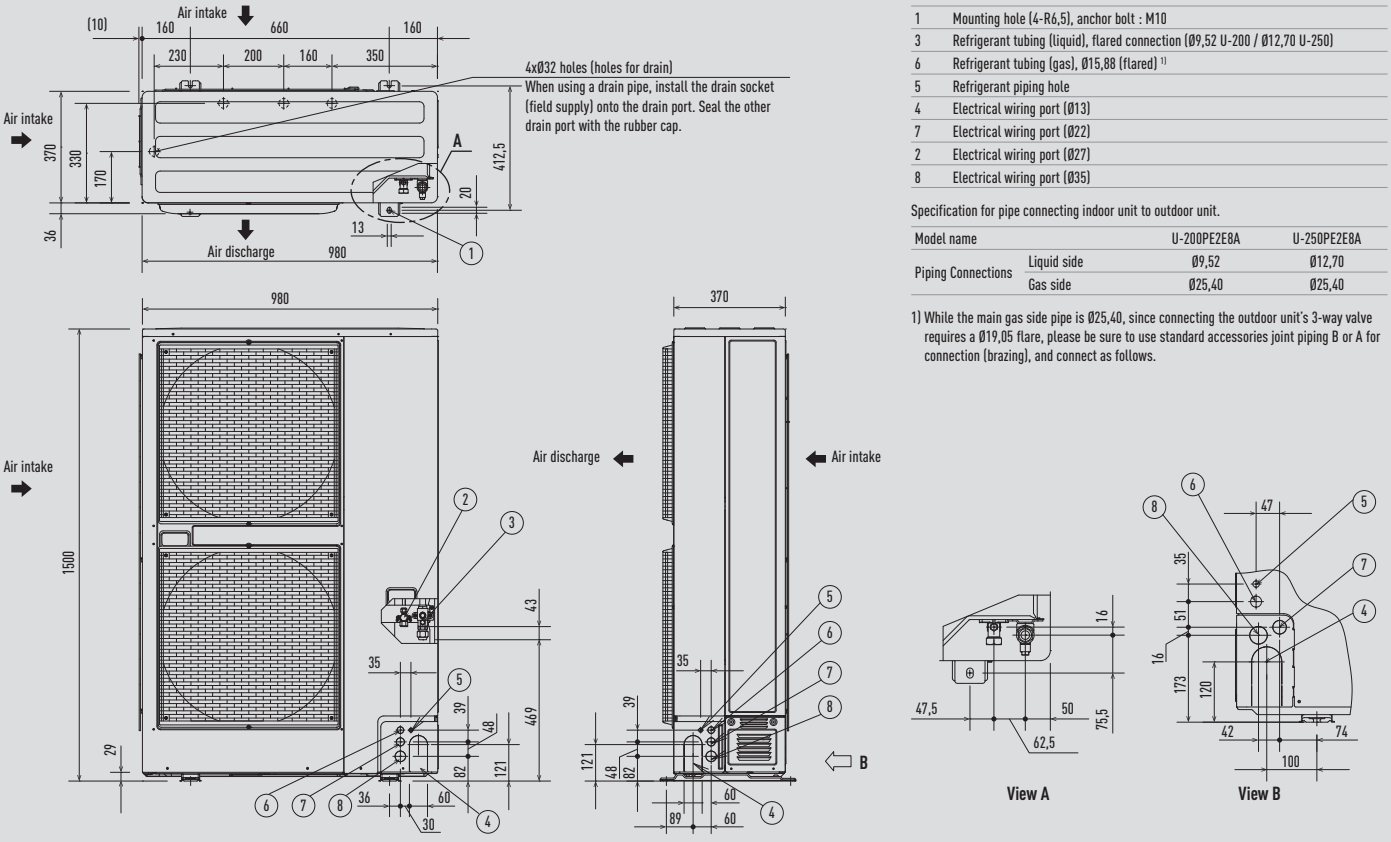
## PACi R410A outdoor unit: 2 fans




| | |
|---|---|
| 1 | Mounting hole, anchor bolt:M10 |
| 3 | Refrigerant tubing (liquid), Ø9,52 (flared) |
| 6 | Refrigerant tubing (gas), Ø15,88 (flared) |
| 5 | Refrigerant piping hole |
| 4 | Electrical wiring port (Ø13) |
| 7 | Electrical wiring port (Ø22) |
| 2 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

Unit: mm

## Big PACi R410A outdoor unit 20,00 and 25,00kW




| | |
|---|---|
| 1 | Mounting hole (4-R6,5), anchor bolt : M10 |
| 3 | Refrigerant tubing (liquid), flared connection (Ø9,52 U-200 / Ø12,70 U-250) |
| 6 | Refrigerant tubing (gas), Ø15,88 (flared) [1] |
| 5 | Refrigerant piping hole |
| 4 | Electrical wiring port (Ø13) |
| 7 | Electrical wiring port (Ø22) |
| 2 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

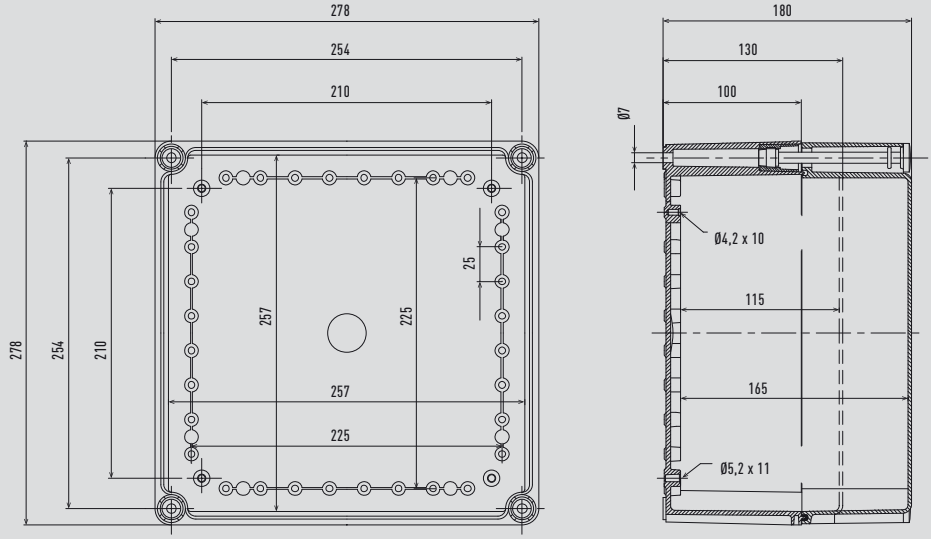
Specification for pipe connecting indoor unit to outdoor unit.

| Model name | | U-200PE2E8A | U-250PE2E8A |
|---|---|---|---|
| Piping Connections | Liquid side | Ø9,52 | Ø12,70 |
| | Gas side | Ø25,40 | Ø25,40 |

1) While the main gas side pipe is Ø25,40, since connecting the outdoor unit's 3-way valve requires a Ø19,05 flare, please be sure to use standard accessories joint piping B or A for connection (brazing), and connect as follows.

Unit: mm

## AHU Connection Kit

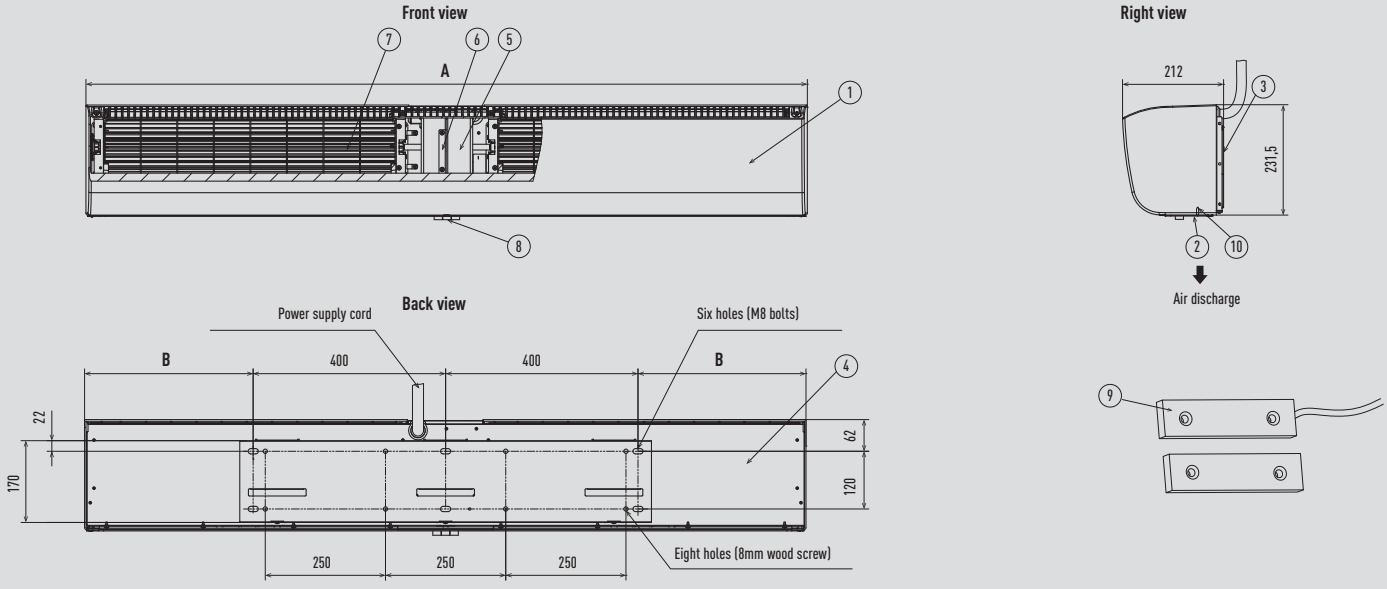



Front View (transparent cover removed)

Side View

Unit: mm

## Electric Air Curtain



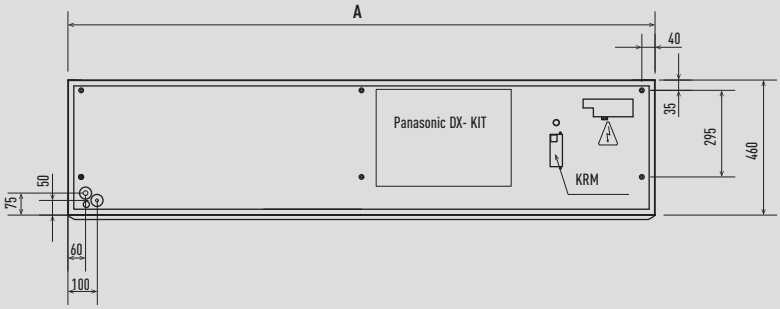

| | |
|---|---|
| 1 | Front panel |
| 2 | Air discharge |
| 3 | Mounting plate |
| 4 | Back panel |
| 5 | Motor |
| 6 | Motor support |
| 7 | Cross-flow impeller |
| 8 | Push–button switch |
| 9 | Gate magnetic switch |
| 10 | Guide plate |

| | FY-3009U1 | FY-3012U1 | FY-3015U1 |
|---|---|---|---|
| A | 900 | 1200 | 1500 |
| B | 50 | 200 | 350 |

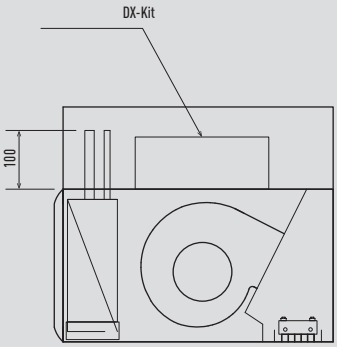
Unit: mm

## Air Curtain with DX Coil

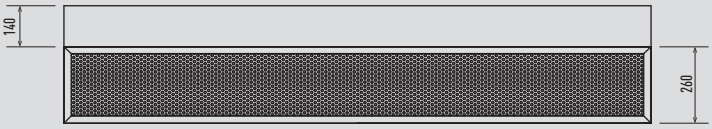
**Top view**



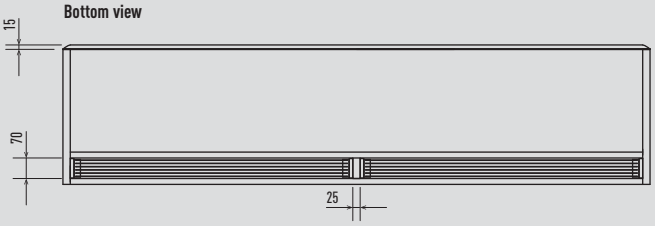

**Side view**




**Front view**



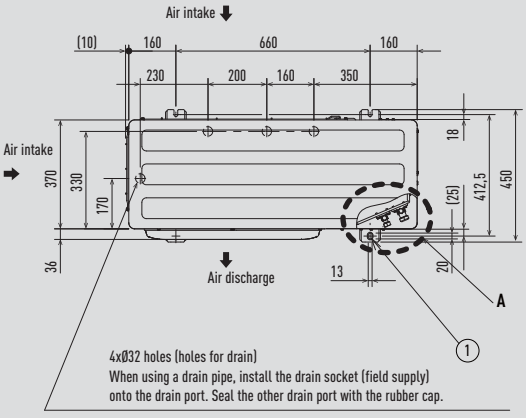

**Bottom view**

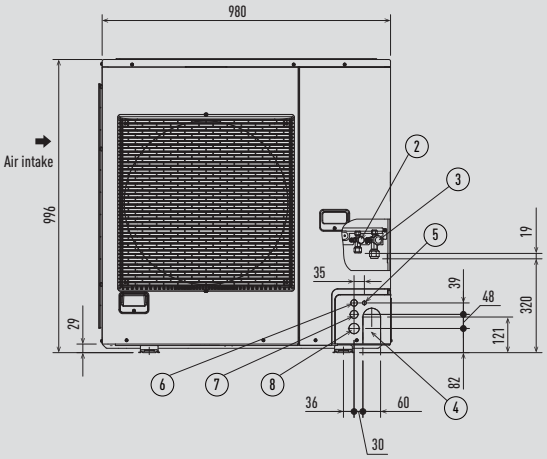


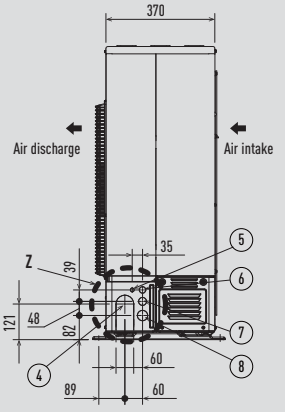

| | PAW-10PAIRC-LS | PAW-15PAIRC-LS | PAW-20PAIRC-LS | PAW-25PAIRC-LS |
|---|---|---|---|---|
| | PAW-10PAIRC-HS | PAW-15PAIRC-HS | PAW-20PAIRC-HS | PAW-25PAIRC-HS |
| A | 1,0m | 1,5m | 2,0m | 2,5m |

Unit: mm

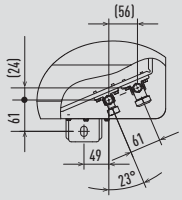
## Mini ECOi LE2 Series High Efficiency 4 to 6HP



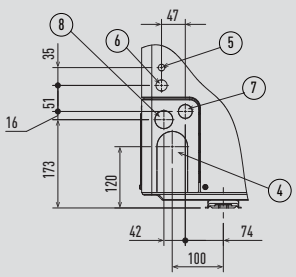




**A View**



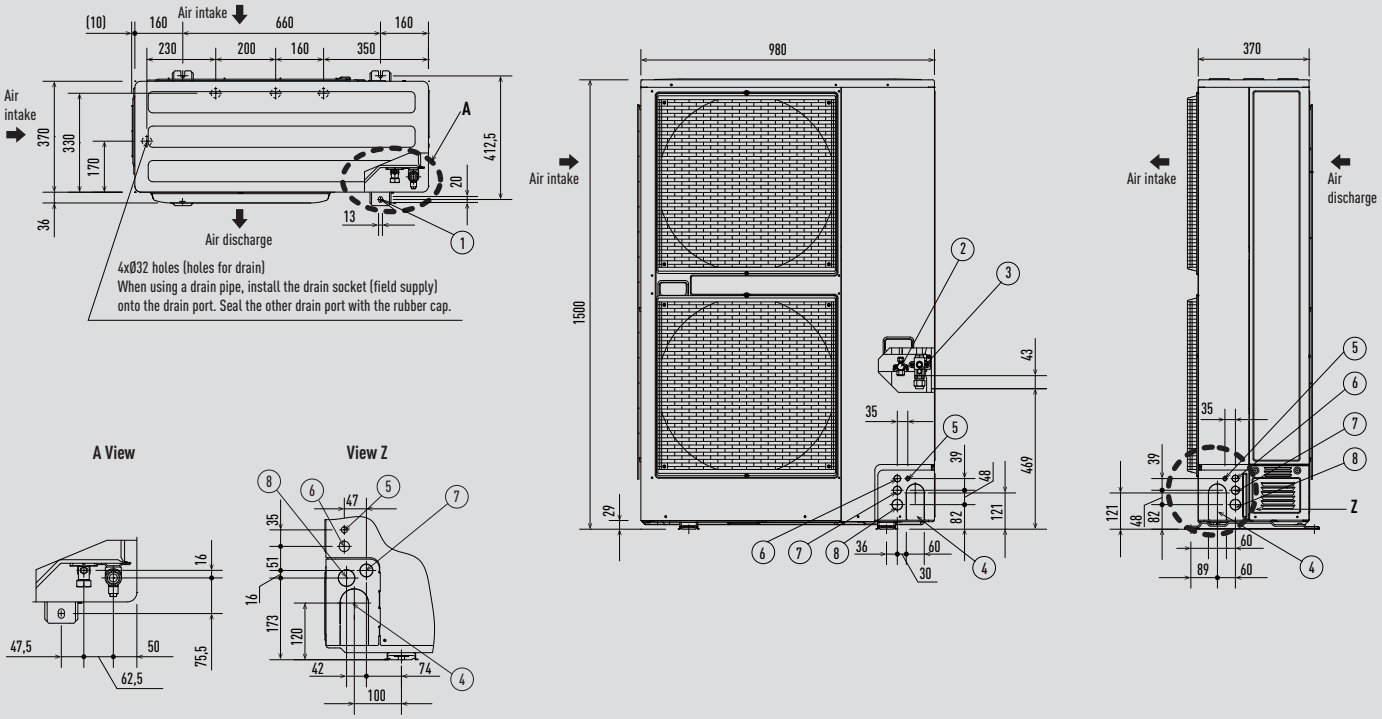

**View Z**




| | |
|---|---|
| 1 | Mounting hole (4-R6,5), anchor bolt: M10 |
| 2 | Refrigerant tubing (liquid), Ø9,52 (flared) |
| 3 | Refrigerant tubing (gas), Ø19,05 (flared) |
| 4 | Refrigerant piping port |
| 5 | Electrical wiring port (Ø13) |
| 6 | Electrical wiring port (Ø22) |
| 7 | Electrical wiring port (Ø27) |
| 8 | Electrical wiring port (Ø35) |

Unit: mm

## Mini ECOi LE1 Series High Efficiency 8 and 10HP

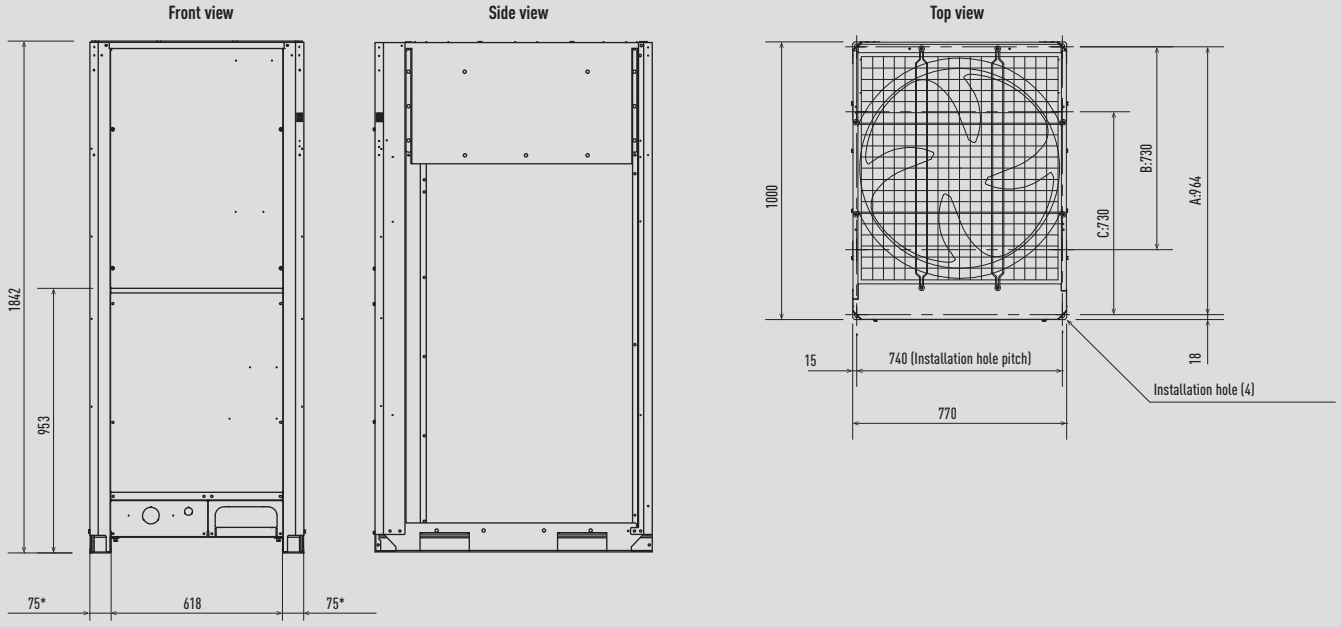



| | | | |
|---|---|---|---|
| 1 | Mounting hole (4-R6,5), anchor bolt: M10 | 5 | Electrical wiring port (Ø13) |
| 2 | Refrigerant tubing (liquid), Ø9,52 (flared) | 6 | Electrical wiring port (Ø22) |
| 3 | Refrigerant tubing (gas), Ø19,05 (flared) | 7 | Electrical wiring port (Ø27) |
| 4 | Refrigerant piping port | 8 | Electrical wiring port (Ø35) |

The piping of the gas main has a diameter of ø22,22, but the connection to the service valve of the outdoor unit has a diameter of ø19,05, so a flare has to be used. Consequently, be sure to use the enclosed joint tube B and joint tube A in making connections (braze).

Unit: mm

## 2-Pipe ECOi EX ME2 Series 8 and 10HP



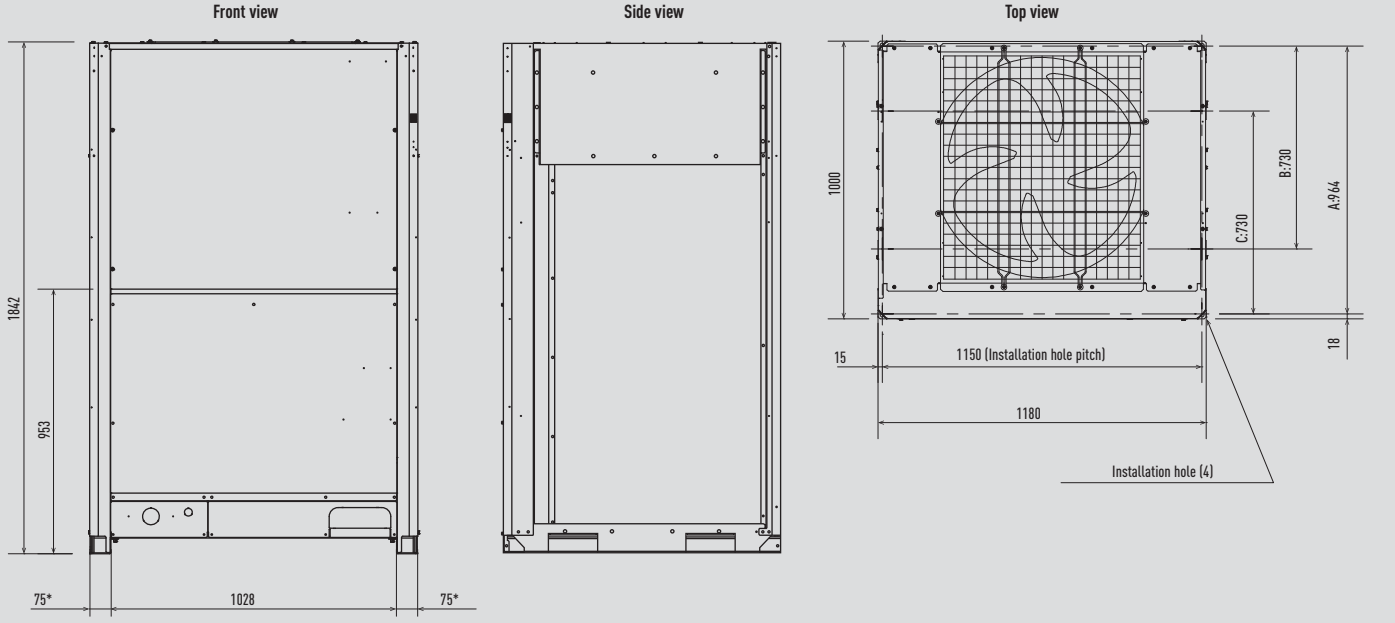

According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

A: 964 (Installation hole pitch). The piping is routed out from the front.
B: 730 (Installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (Installation hole pitch).

* Installation fixing bracket. Installation side.

Unit: mm

## 2-Pipe ECOi EX ME2 Series 12, 14 and 16HP / 3-Pipe ECOi EX MF3 Series 8-16HP



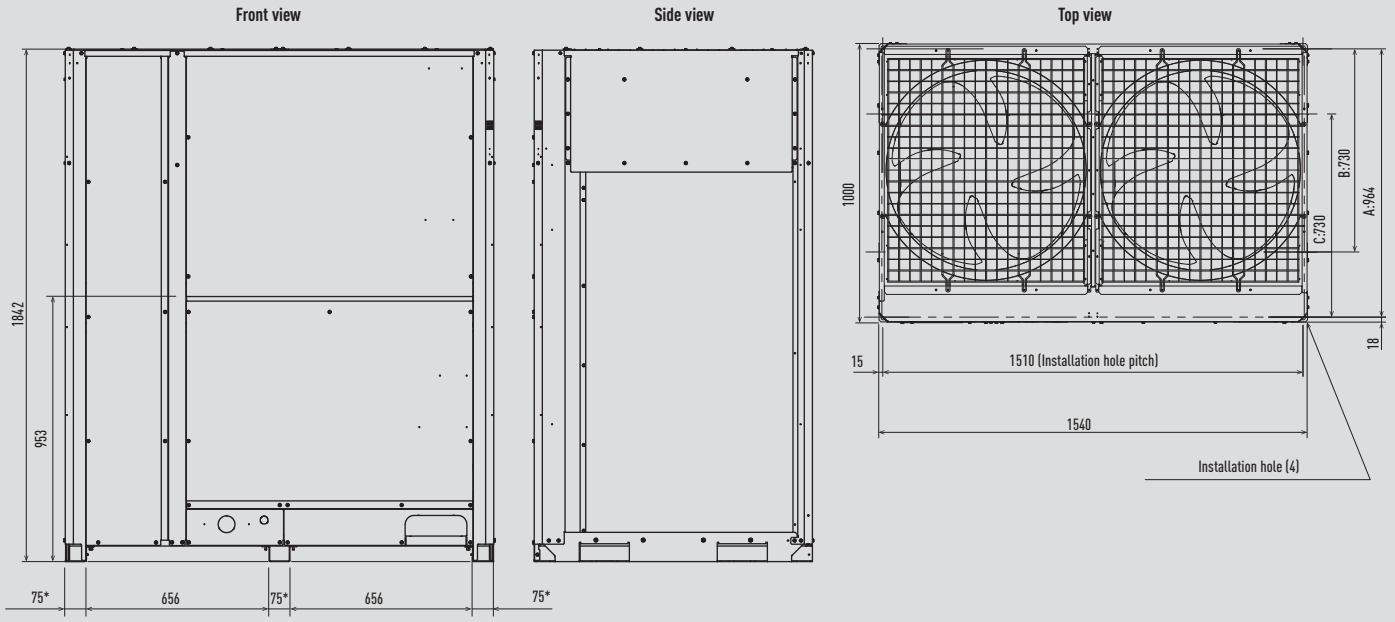

According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

A: 964 (Installation hole pitch). The piping is routed out from the front.
B: 730 (Installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (Installation hole pitch).

* Installation fixing bracket. Installation side.

Unit: mm

## 2-Pipe ECOi EX ME2 Series 18 and 20HP




According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

A: 964 (Installation hole pitch). The piping is routed out from the front.
B: 730 (Installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (Installation hole pitch).

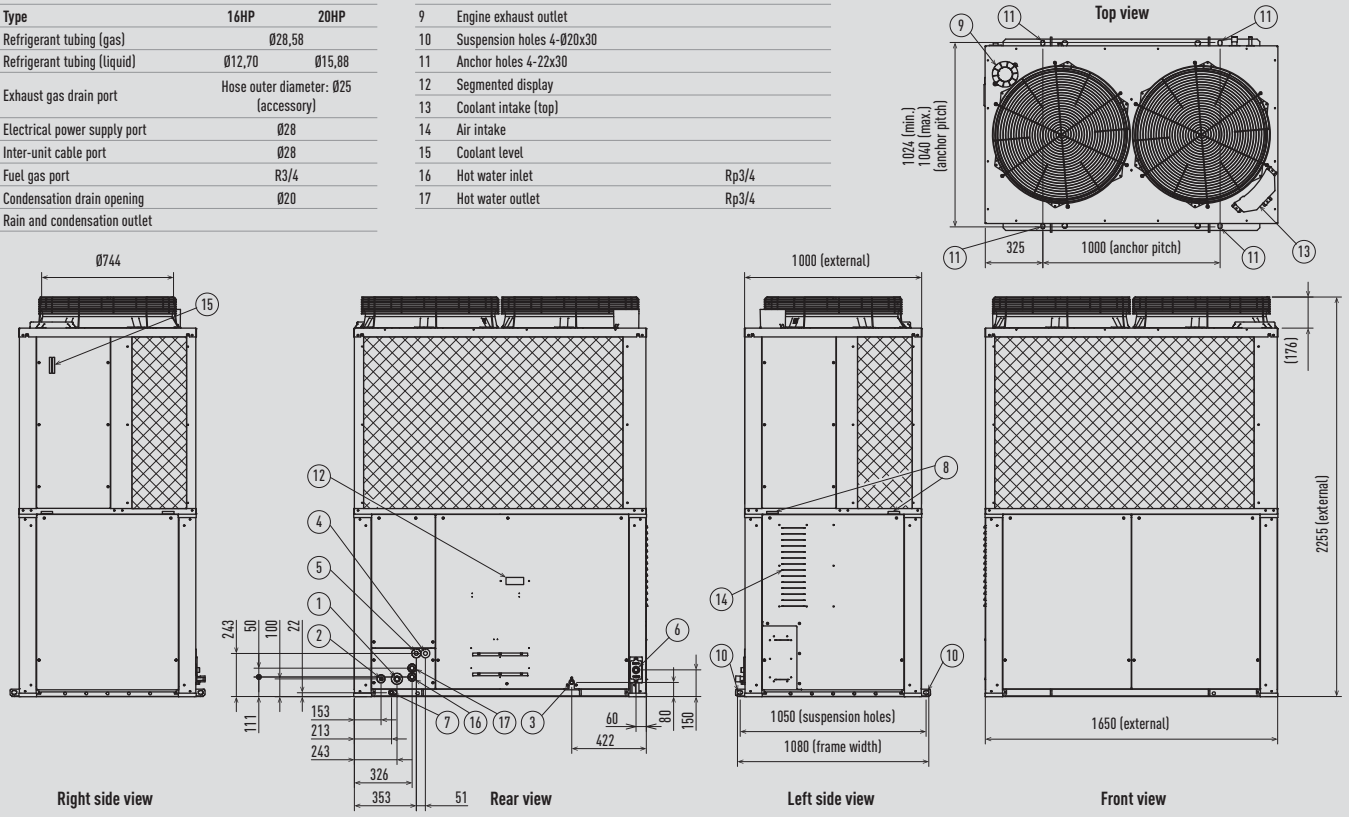
* Installation fixing bracket. Installation side.

Unit: mm

## ECO G GE3 Series 16 and 20HP

| | Type | 16HP | 20HP |
|---|---|---|---|
| 1 | Refrigerant tubing (gas) | Ø28,58 | |
| 2 | Refrigerant tubing (liquid) | Ø12,70 | Ø15,88 |
| 3 | Exhaust gas drain port | Hose outer diameter: Ø25 (accessory) | |
| 4 | Electrical power supply port | Ø28 | |
| 5 | Inter-unit cable port | Ø28 | |
| 6 | Fuel gas port | R3/4 | |
| 7 | Condensation drain opening | Ø20 | |
| 8 | Rain and condensation outlet | | |

| | | |
|---|---|---|
| 9 | Engine exhaust outlet | |
| 10 | Suspension holes 4-Ø20x30 | |
| 11 | Anchor holes 4-22x30 | |
| 12 | Segmented display | |
| 13 | Coolant intake (top) | |
| 14 | Air intake | |
| 15 | Coolant level | |
| 16 | Hot water inlet | Rp3/4 |
| 17 | Hot water outlet | Rp3/4 |

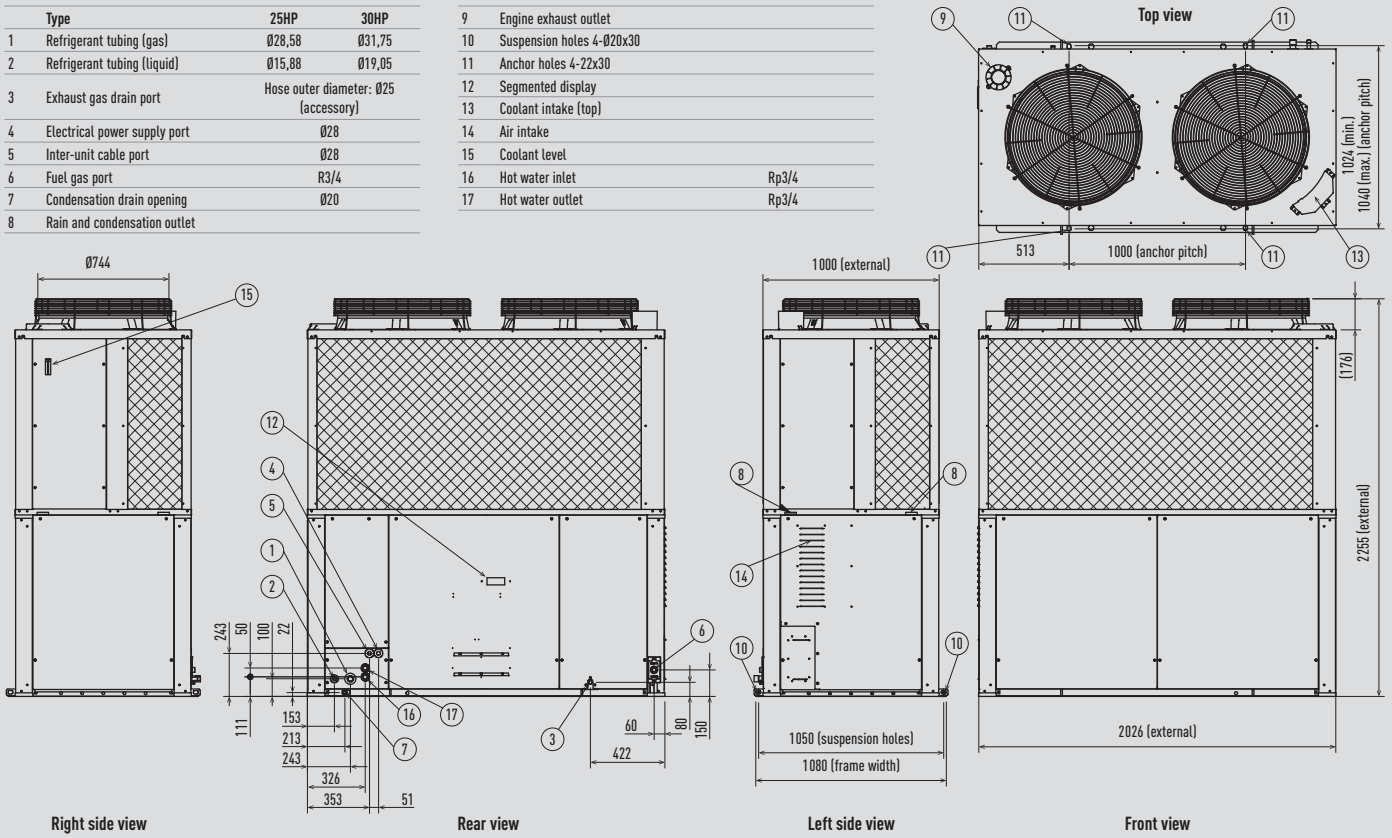



Unit: mm

## ECO G GE3 Series 25 and 30HP

| | Type | 25HP | 30HP |
|---|---|---|---|
| 1 | Refrigerant tubing (gas) | Ø28,58 | Ø31,75 |
| 2 | Refrigerant tubing (liquid) | Ø15,88 | Ø19,05 |
| 3 | Exhaust gas drain port | Hose outer diameter: Ø25 (accessory) | |
| 4 | Electrical power supply port | Ø28 | |
| 5 | Inter-unit cable port | Ø28 | |
| 6 | Fuel gas port | R3/4 | |
| 7 | Condensation drain opening | Ø20 | |
| 8 | Rain and condensation outlet | | |

| | | |
|---|---|---|
| 9 | Engine exhaust outlet | |
| 10 | Suspension holes 4-Ø20x30 | |
| 11 | Anchor holes 4-22x30 | |
| 12 | Segmented display | |
| 13 | Coolant intake (top) | |
| 14 | Air intake | |
| 15 | Coolant level | |
| 16 | Hot water inlet | Rp3/4 |
| 17 | Hot water outlet | Rp3/4 |

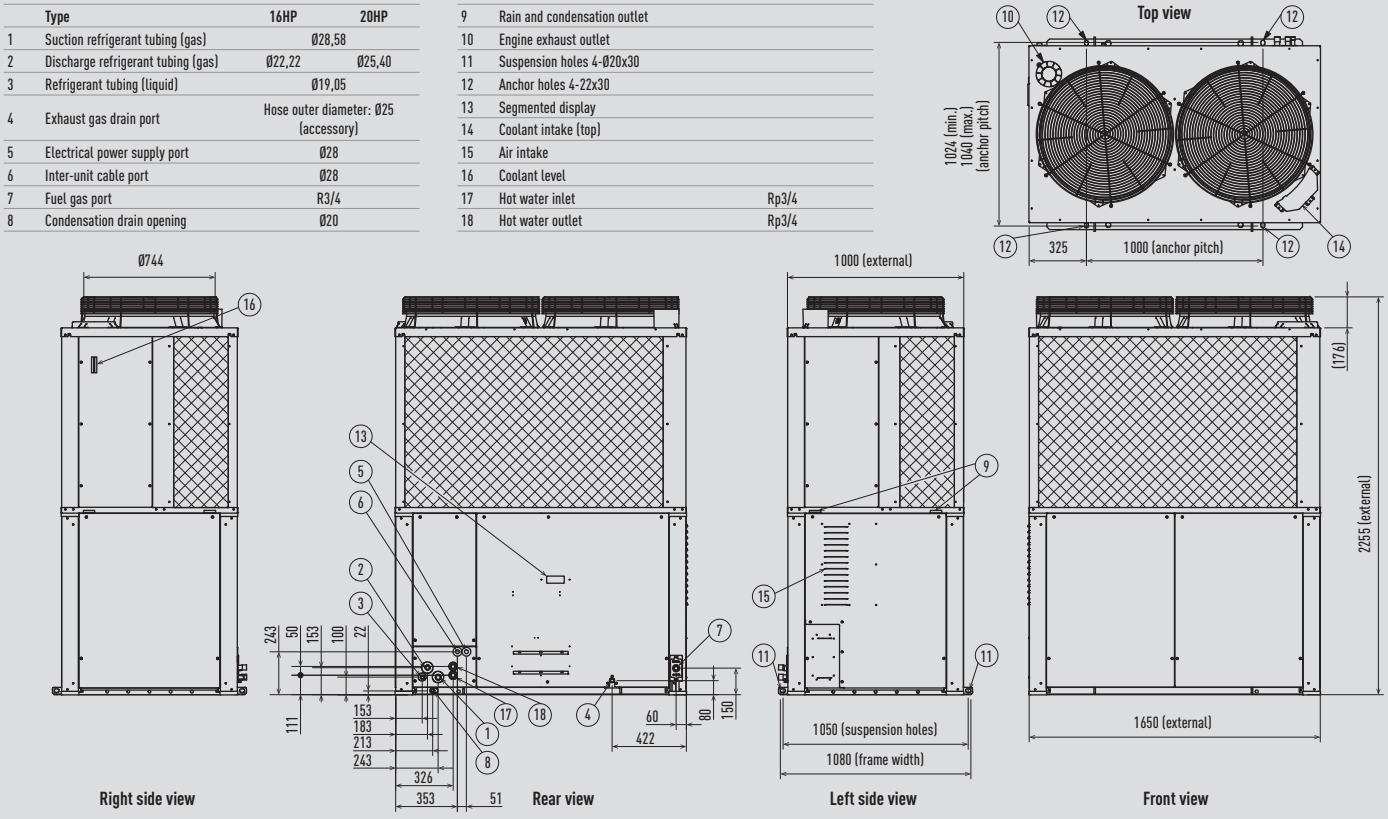



Unit: mm

## ECO G GF3 Series 16 and 20HP

| | Type | 16HP | 20HP |
|---|---|---|---|
| 1 | Suction refrigerant tubing (gas) | Ø28,58 | |
| 2 | Discharge refrigerant tubing (gas) | Ø22,22 | Ø25,40 |
| 3 | Refrigerant tubing (liquid) | Ø19,05 | |
| 4 | Exhaust gas drain port | Hose outer diameter: Ø25 (accessory) | |
| 5 | Electrical power supply port | Ø28 | |
| 6 | Inter-unit cable port | Ø28 | |
| 7 | Fuel gas port | R3/4 | |
| 8 | Condensation drain opening | Ø20 | |

| | | |
|---|---|---|
| 9 | Rain and condensation outlet | |
| 10 | Engine exhaust outlet | |
| 11 | Suspension holes 4-Ø20x30 | |
| 12 | Anchor holes 4-22x30 | |
| 13 | Segmented display | |
| 14 | Coolant intake (top) | |
| 15 | Air intake | |
| 16 | Coolant level | |
| 17 | Hot water inlet | Rp3/4 |
| 18 | Hot water outlet | Rp3/4 |

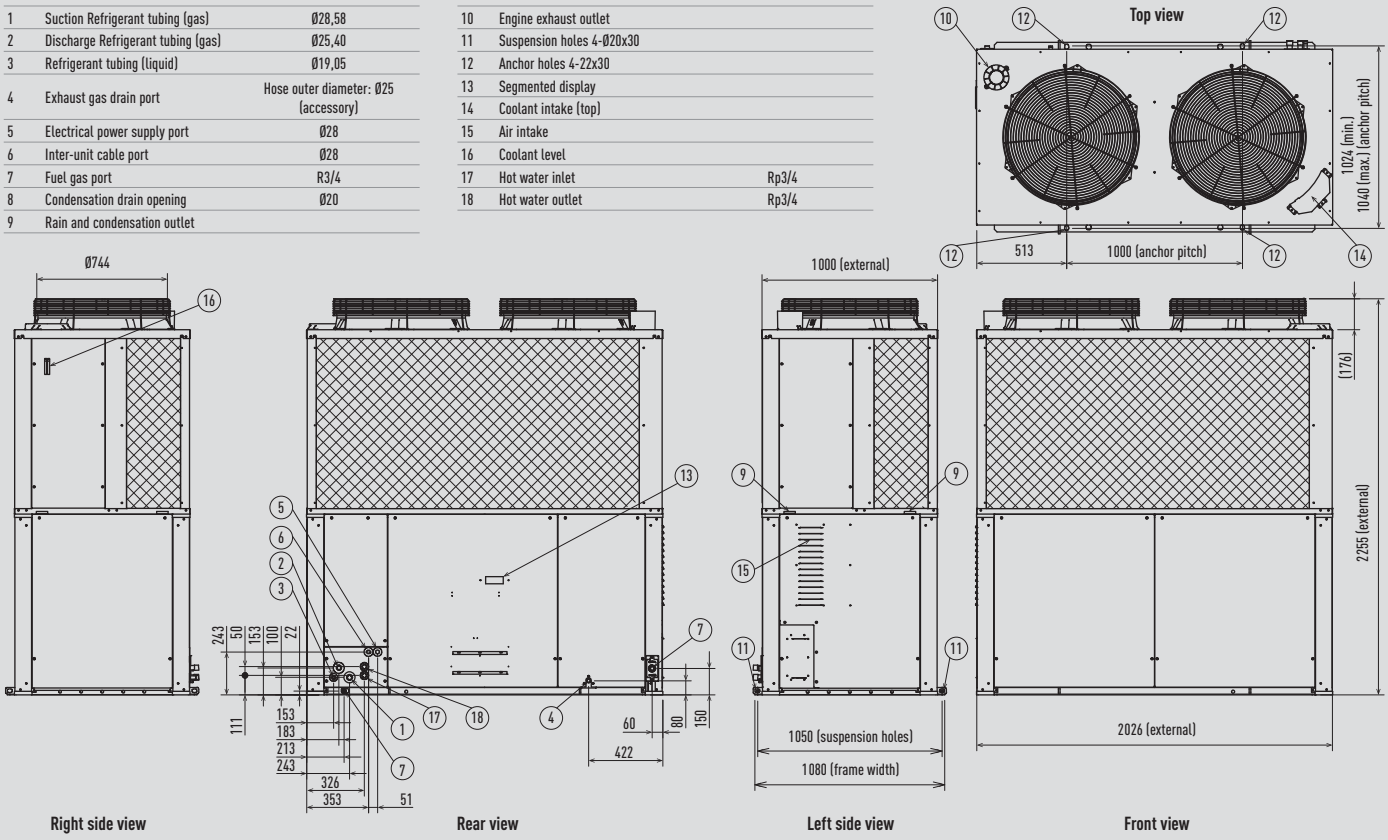



Unit: mm

## ECO G GF3 Series 25HP

| | | |
|---|---|---|
| 1 | Suction Refrigerant tubing (gas) | Ø28,58 |
| 2 | Discharge Refrigerant tubing (gas) | Ø25,40 |
| 3 | Refrigerant tubing (liquid) | Ø19,05 |
| 4 | Exhaust gas drain port | Hose outer diameter: Ø25 (accessory) |
| 5 | Electrical power supply port | Ø28 |
| 6 | Inter-unit cable port | Ø28 |
| 7 | Fuel gas port | R3/4 |
| 8 | Condensation drain opening | Ø20 |
| 9 | Rain and condensation outlet | |

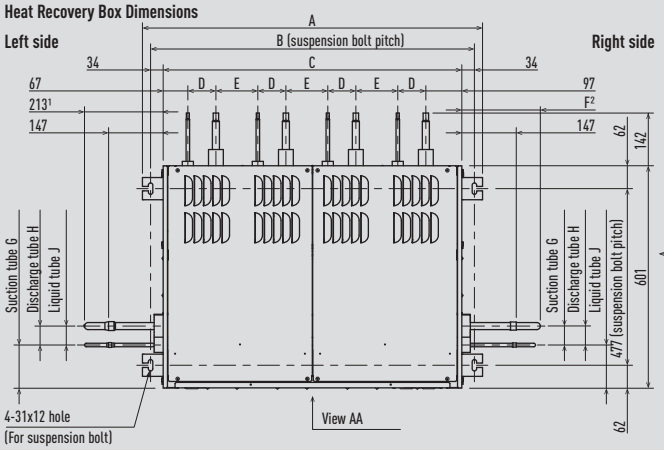
| | | |
|---|---|---|
| 10 | Engine exhaust outlet | |
| 11 | Suspension holes 4-Ø20x30 | |
| 12 | Anchor holes 4-22x30 | |
| 13 | Segmented display | |
| 14 | Coolant intake (top) | |
| 15 | Air intake | |
| 16 | Coolant level | |
| 17 | Hot water inlet | Rp3/4 |
| 18 | Hot water outlet | Rp3/4 |

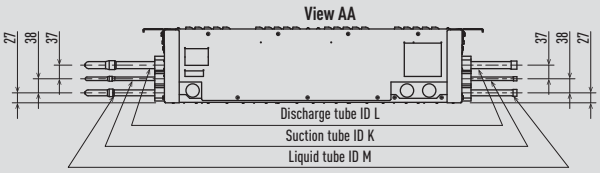


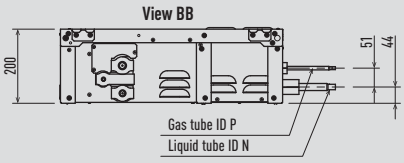

Unit: mm

## 3-Pipe Control Box Kit / Multiple connection type

**Heat Recovery Box Dimensions**



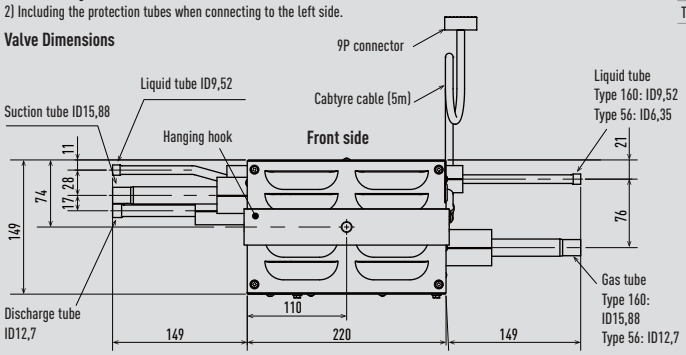



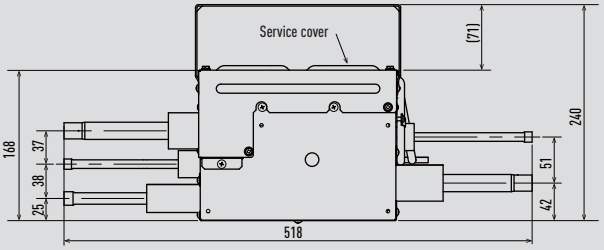




| | A | B | C | D | E | F | G | H | J | K | L | M | N | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type 456 | 919 | 874 | 807 | 67 | 113 | 213 | 51 | 51 | 117 | Ø19,05 | Ø15,88 | Ø9,52 | Ø6,35 | Ø12,70 |
| Type 4160 | 919 | 874 | 807 | 67 | 113 | 207 | 55 | 54 | 113 | Ø9,52 | Ø15,88 | Ø28,58 | Ø25,40 | Ø15,88 |
| Type 656 | 1297 | 1253 | 1185 | 67 | 113 | 213 | 54 | 55 | 115 | Ø25,40 | Ø19,05 | Ø12,70 | Ø6,35 | Ø12,70 |
| Type 856 | 1675 | 1631 | 1563 | 67 | 113 | 213 | 53 | 53 | 115 | Ø28,58 | Ø22,22 | Ø12,70 | Ø6,35 | Ø12,70 |

1) In case of right side connection.
2) Including the protection tubes when connecting to the left side.

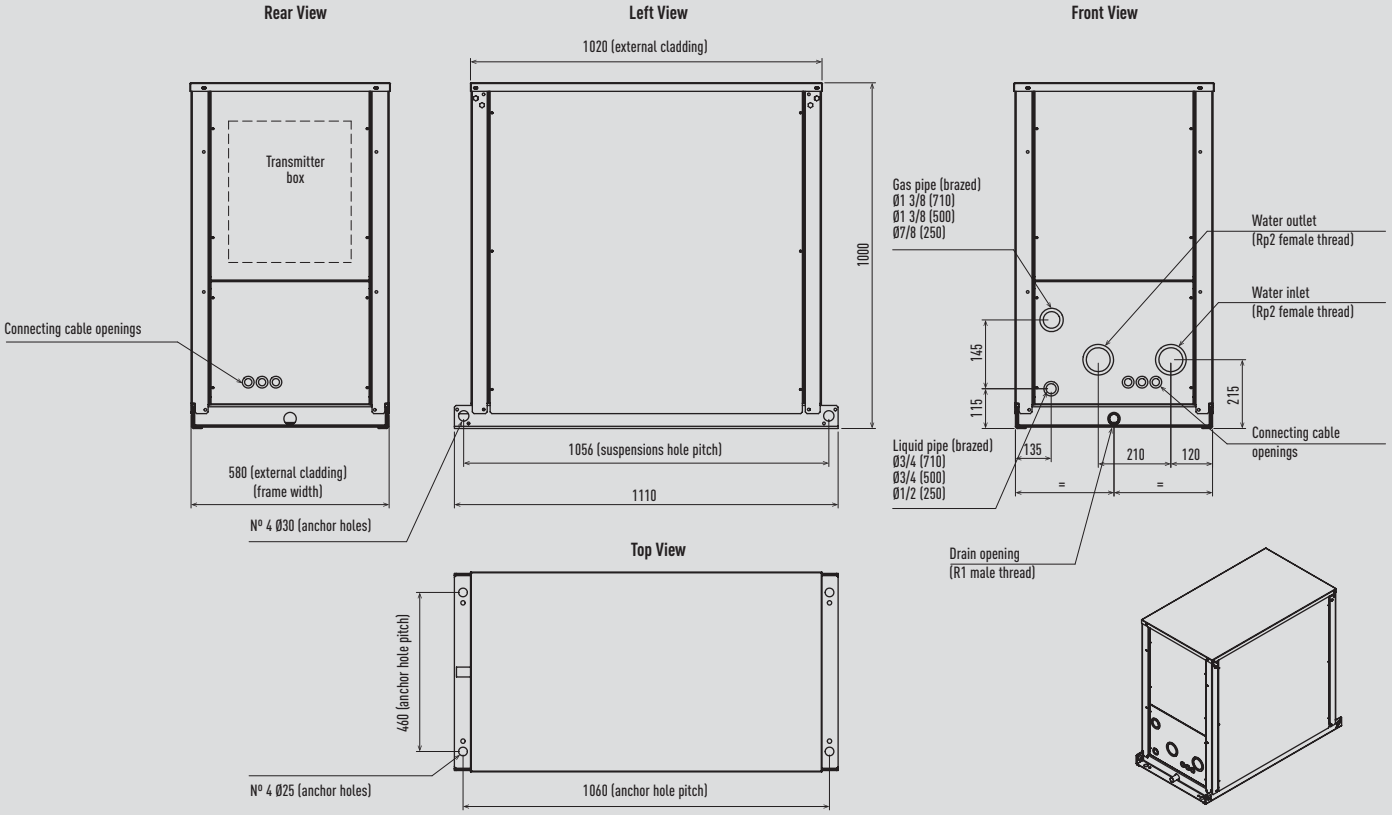
**Valve Dimensions**



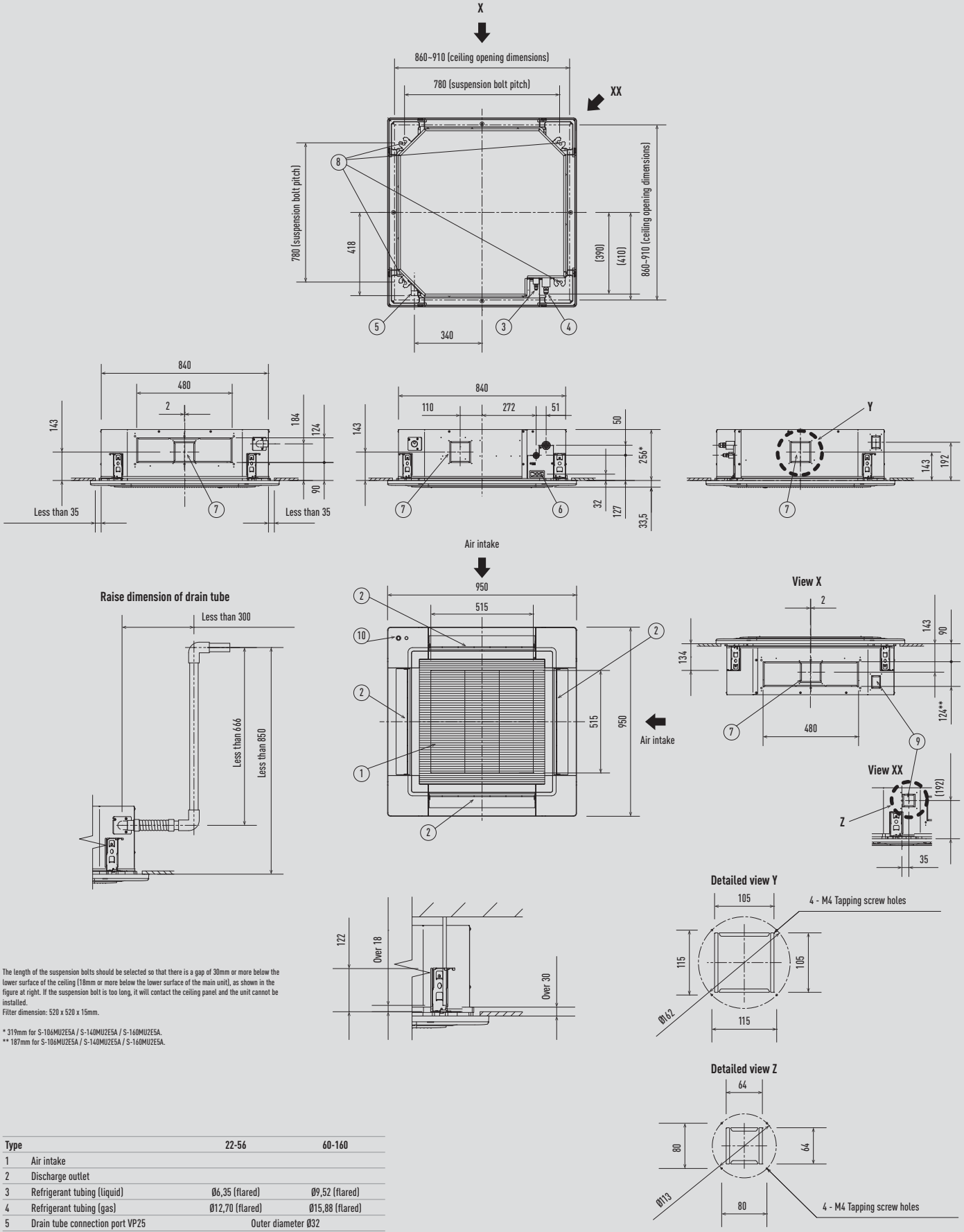

Unit: mm

## Water Heat Exchanger for chilled and hot water production




Unit: mm

## U2 Type 4 Way 90x90 Cassette




The length of the suspension bolts should be selected so that there is a gap of 30mm or more below the lower surface of the ceiling (18mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.
Filter dimension: 520 x 520 x 15mm.

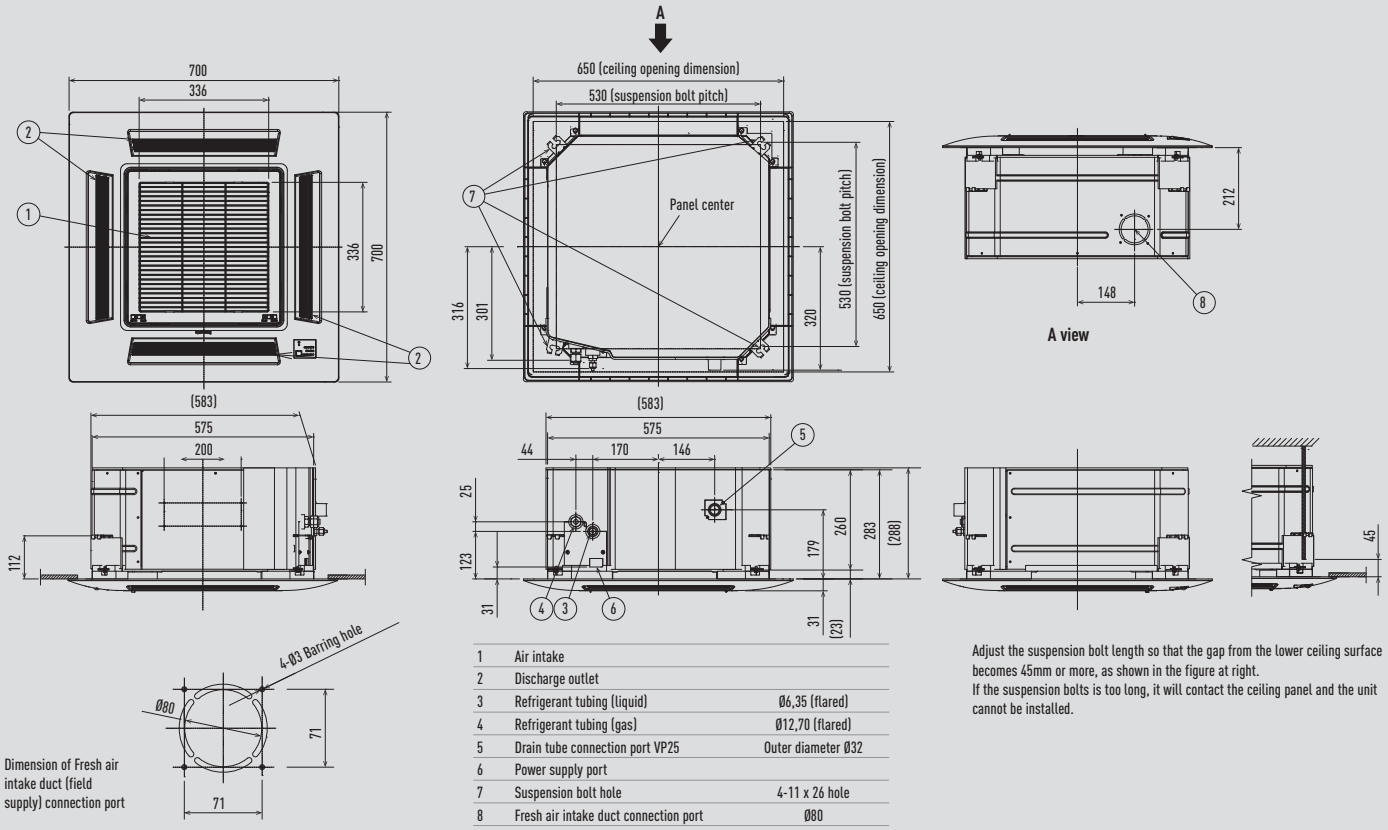
* 319mm for S-106MU2E5A / S-140MU2E5A / S-160MU2E5A.
** 187mm for S-106MU2E5A / S-140MU2E5A / S-160MU2E5A.

| Type | | 22-56 | 60-160 |
|---|---|---|---|
| 1 | Air intake | | |
| 2 | Discharge outlet | | |
| 3 | Refrigerant tubing (liquid) | Ø6,35 (flared) | Ø9,52 (flared) |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) | Ø15,88 (flared) |
| 5 | Drain tube connection port VP25 | Outer diameter Ø32 | |
| 6 | Power supply port | | |
| 7 | Suspension bolt hole | 4-12x30 elongated hole | |
| 8 | Fresh air intake duct connection port | Ø100 [1] | |
| 9 | Suspension bolt hole | 4-12x30 elongated hole | |
| 10 | Econavi sensor (Only CZ-KPU3A) | | |

1) Necessary to attach duct connecting flange(field supplied).

Unit: mm

## Y2 Type 4 Way 60x60 Cassette

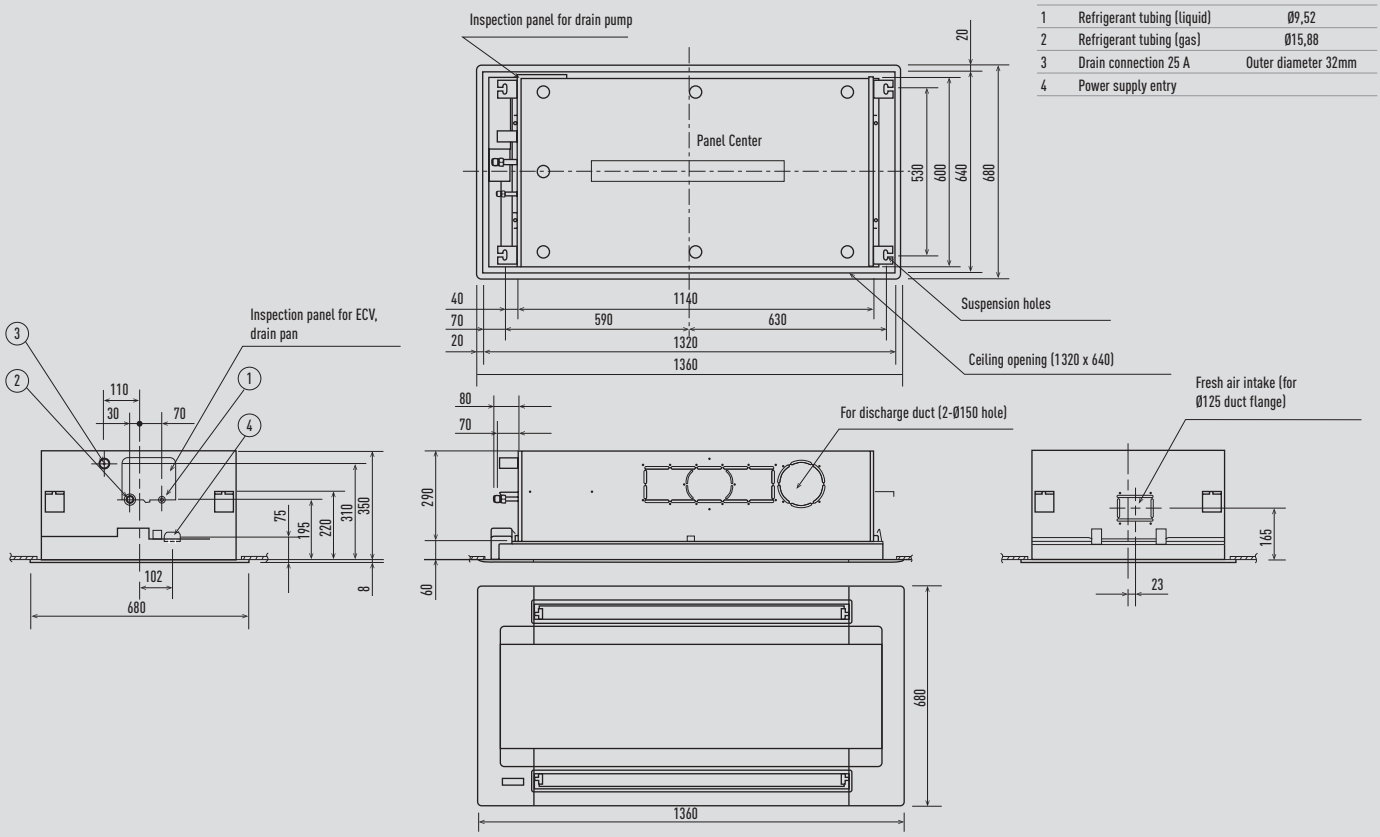



| | | |
|---|---|---|
| 1 | Air intake | |
| 2 | Discharge outlet | |
| 3 | Refrigerant tubing (liquid) | Ø6,35 (flared) |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) |
| 5 | Drain tube connection port VP25 | Outer diameter Ø32 |
| 6 | Power supply port | |
| 7 | Suspension bolt hole | 4-11 x 26 hole |
| 8 | Fresh air intake duct connection port | Ø80 |

Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 45mm or more, as shown in the figure at right.
If the suspension bolts is too long, it will contact the ceiling panel and the unit cannot be installed.

Unit: mm

## L1 Type 2 Way Cassette

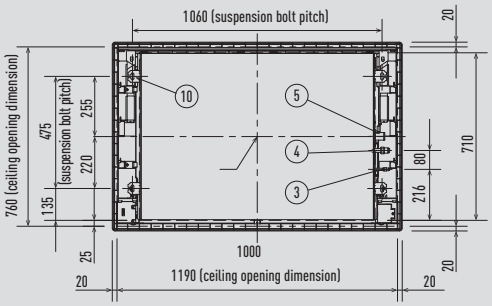


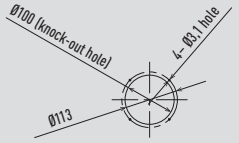

| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 |
| 2 | Refrigerant tubing (gas) | Ø15,88 |
| 3 | Drain connection 25 A | Outer diameter 32mm |
| 4 | Power supply entry | |

Unit: mm

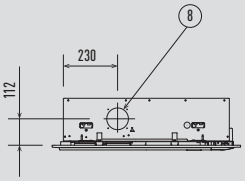
## D1 Type 1 Way Cassette

| | | 28-56 | 73 |
|---|---|---|---|
| 1 | Air intake grille | | |
| 2 | Discharge outlet | | |
| 3 | Refrigerant tubing (liquid) | Ø6,35 (flared) | Ø9,52 (flared) |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) | Ø15,88 (flared) |
| 5 | Drain tube connection port VP25 | Outer diameter32 | |
| 6 | Power supply entry | | |
| 7 | Discharge duct connection port (for descending ceiling) | | |
| 8 | Fresh air intake duct connection port | Ø100 | |
| 9 | Installation port for wireless remote controller receiver | | |
| 10 | Suspension bolt hole | 4-12 x 30mm | |

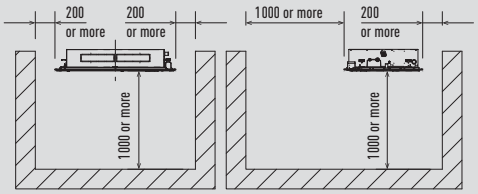


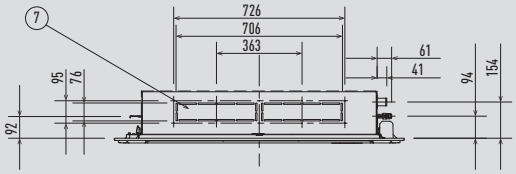




**Fresh air intake duct connection port (detail)**

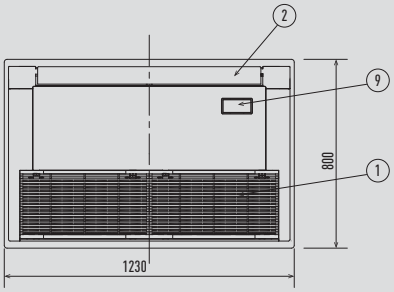


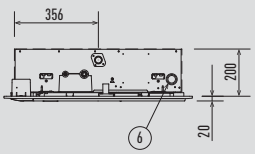

**Required space for installation**




**Front view**

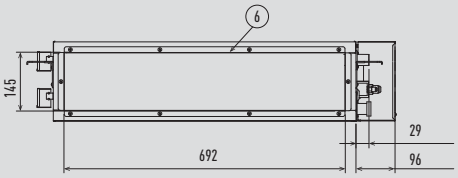


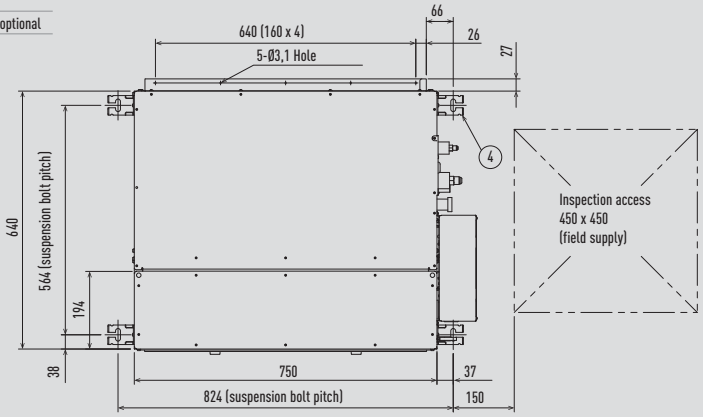



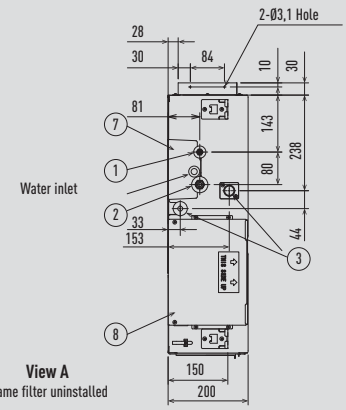

Unit: mm

## M1 Type Slim Variable Static Pressure Hide Away

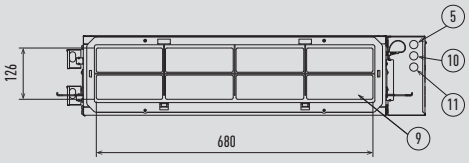
| | | |
|---|---|---|
| 1 | Refrigerant piping (narrow tube) | |
| 2 | Refrigerant piping (wide tube) | |
| 3 | Upper and bottom drain port | Outer diameter 26mm |
| 4 | Suspension lug | |
| 5 | Power supply outlet | 2- Ø30 |
| 6 | Flange for air intake duct | |
| 7 | PL cover | |
| 8 | Electrical component box | |
| 9 | Frame filter | |
| 10 | Signal output board | ACC-SG-AGB: optional |

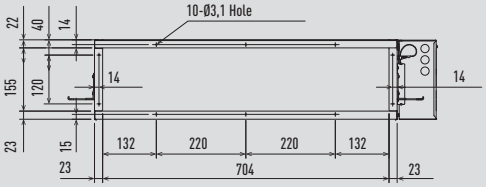



**View A**
Frame filter uninstalled

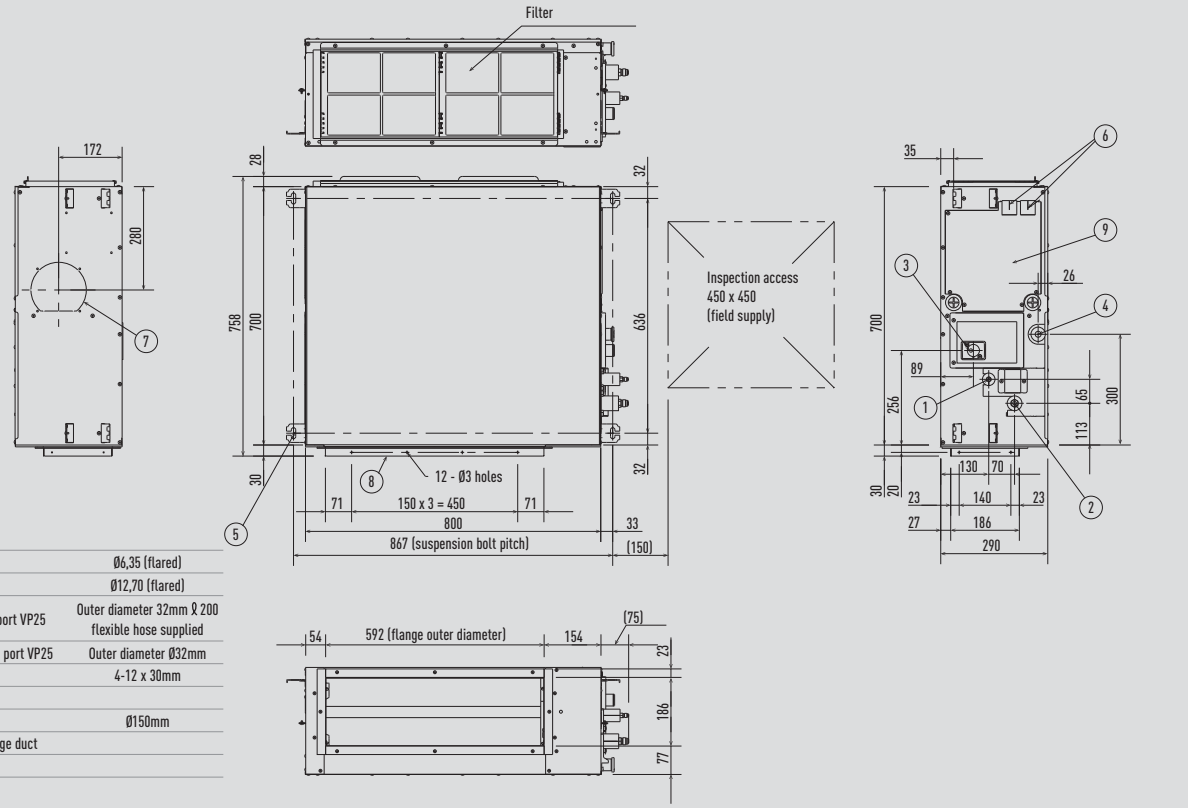



Unit: mm

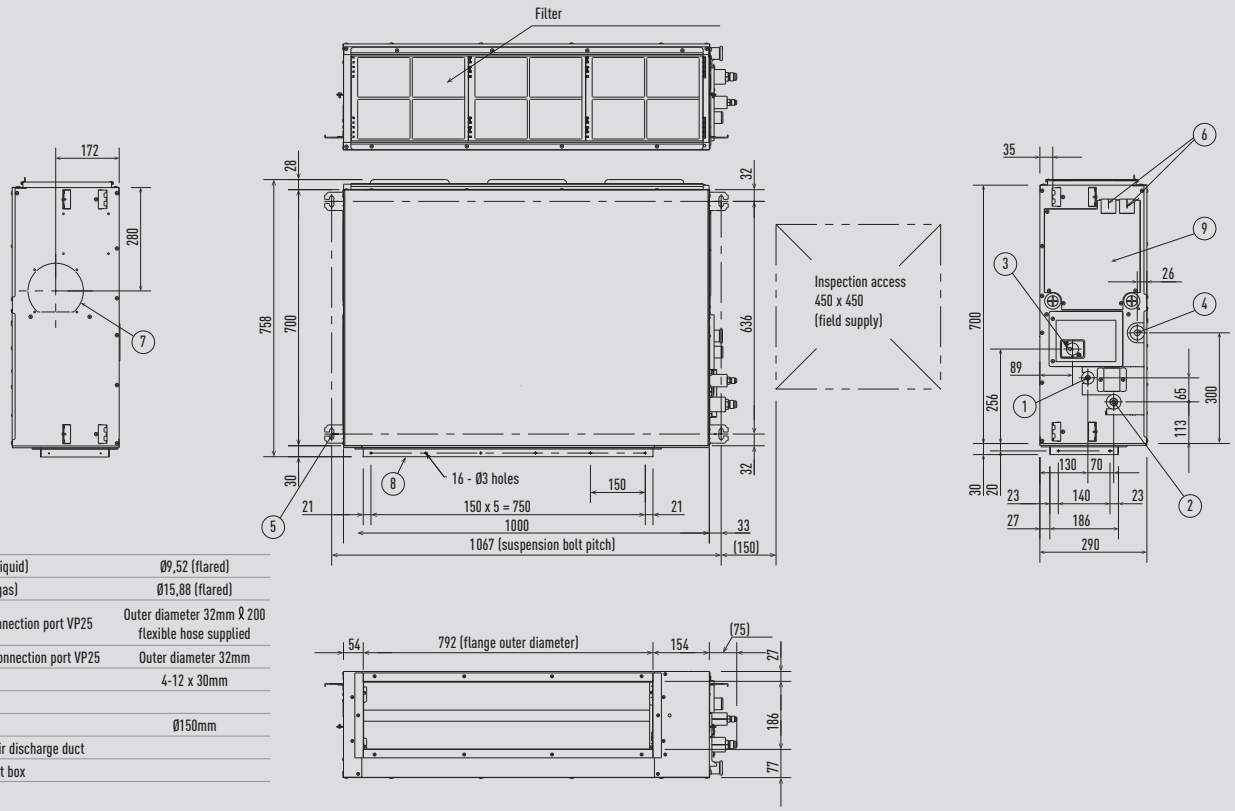
## F2 Type Variable Static Pressure Hide Away

**S-15MF2E5A / S-22MF2E5A / S-28MF2E5A / S-36MF2E5A / S-45MF2E5A / S-56MF2E5A**




| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø6,35 (flared) |
| 2 | Refrigerant tubing (gas) | Ø12,70 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter 32mm ℓ 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter Ø32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

**S-60MF2E5A / S-73MF2E5A / S-90MF2E5A**

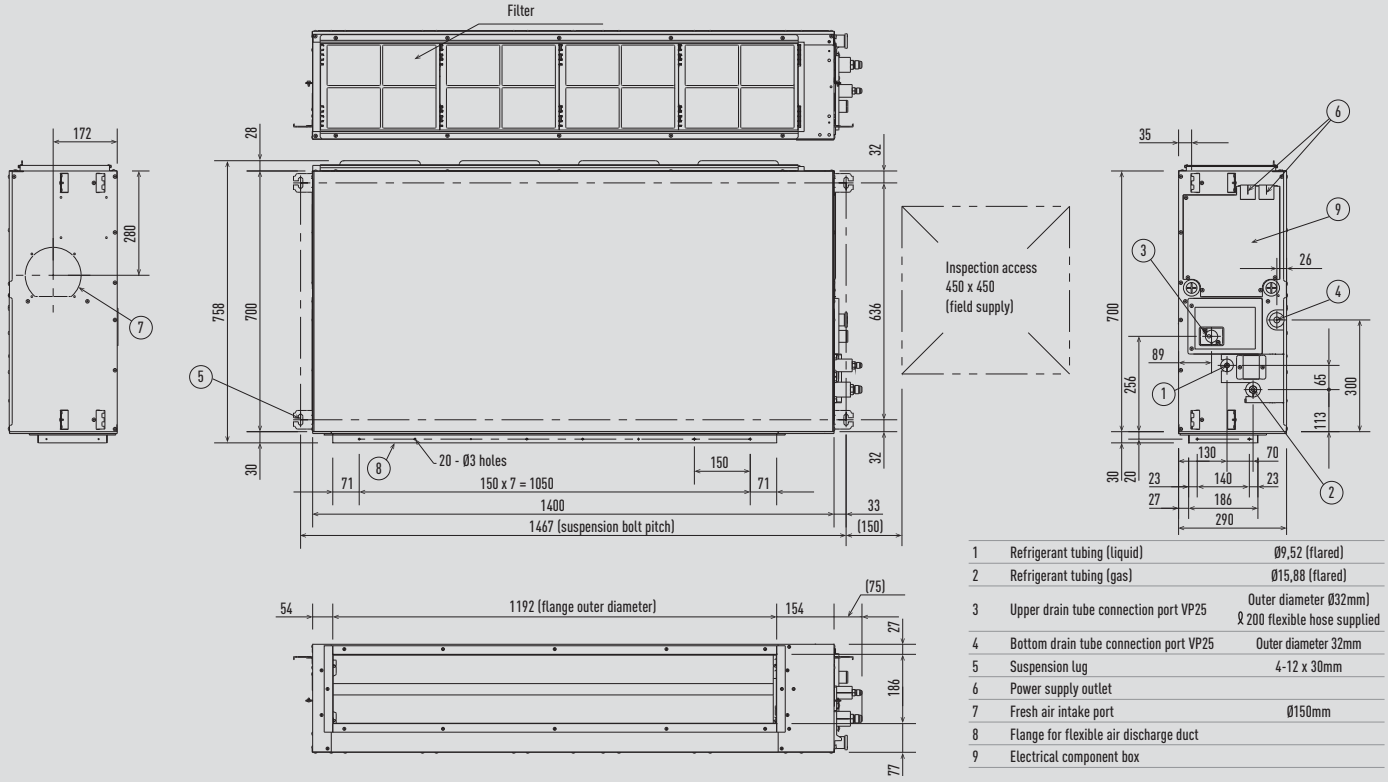



| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter 32mm ℓ 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter 32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

Unit: mm

## F2 Type Variable Static Pressure Hide Away

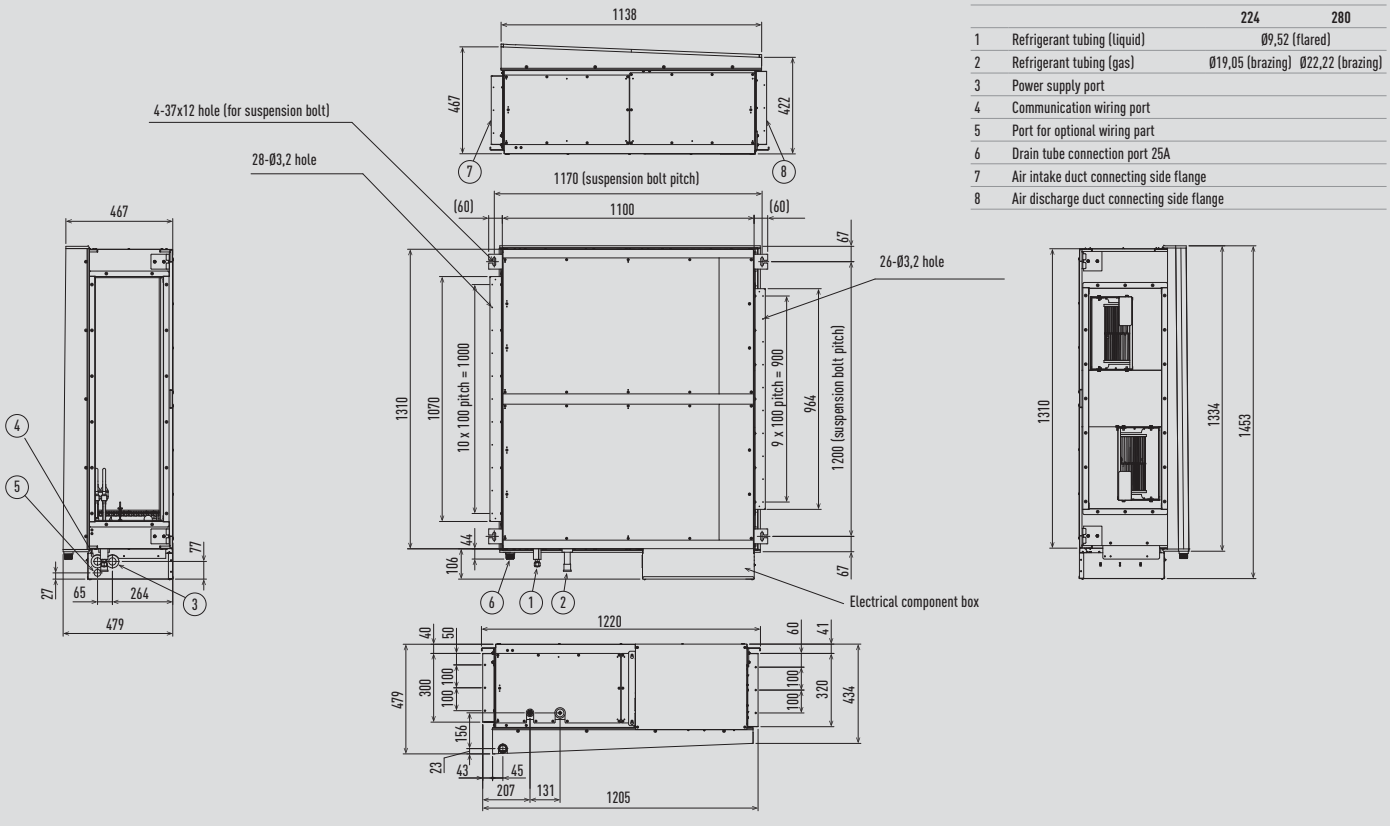
**S-106MF2E5A / S-140MF2E5A / S-160MF2E5A**




| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 3 | Upper drain tube connection port VP25 | Outer diameter Ø32mm)<br>ℓ 200 flexible hose supplied |
| 4 | Bottom drain tube connection port VP25 | Outer diameter 32mm |
| 5 | Suspension lug | 4-12 x 30mm |
| 6 | Power supply outlet | |
| 7 | Fresh air intake port | Ø150mm |
| 8 | Flange for flexible air discharge duct | |
| 9 | Electrical component box | |

Unit: mm

## E2 Type High Static Pressure Hide Away

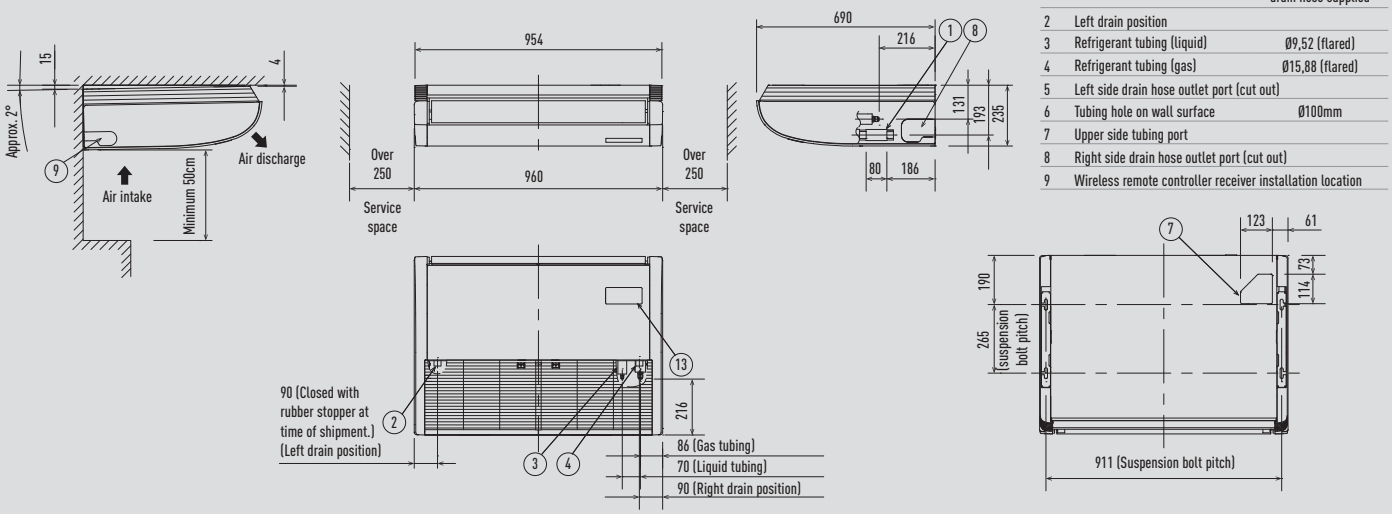



| | | 224 | 280 |
|---|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø9,52 (flared) | |
| 2 | Refrigerant tubing (gas) | Ø19,05 (brazing) | Ø22,22 (brazing) |
| 3 | Power supply port | | |
| 4 | Communication wiring port | | |
| 5 | Port for optional wiring part | | |
| 6 | Drain tube connection port 25A | | |
| 7 | Air intake duct connecting side flange | | |
| 8 | Air discharge duct connecting side flange | | |

Unit: mm

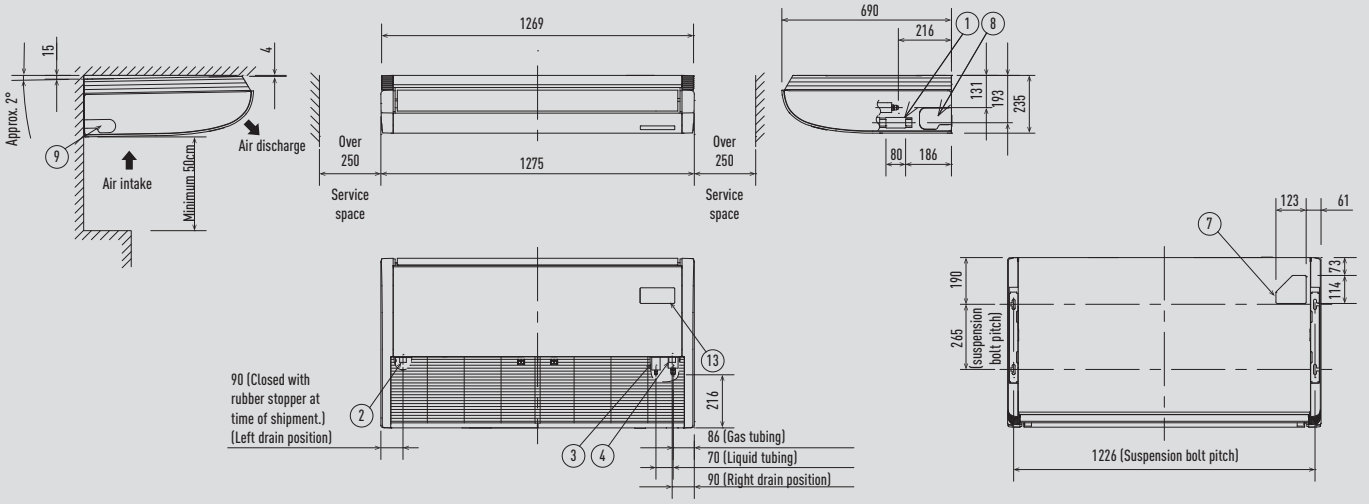
## T2 Type Ceiling

**S-36MT2E5A / S-45MT2E5A / S-56MT2E5A**

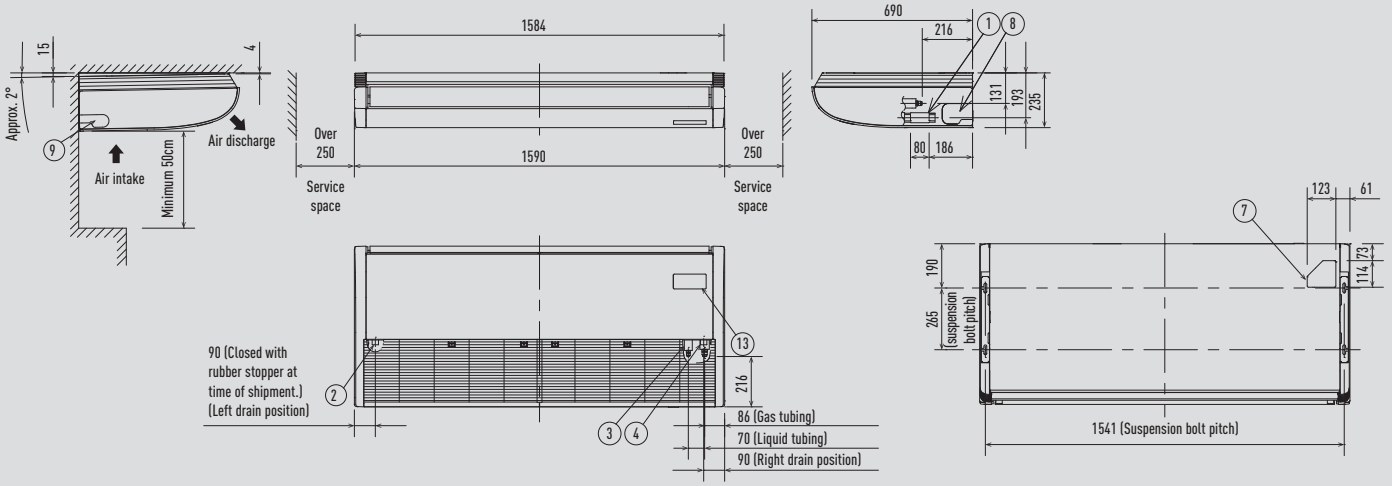



| | | |
|---|---|---|
| 1 | Drain tube connection port VP20 | Inside diameter Ø26mm, drain hose supplied |
| 2 | Left drain position | |
| 3 | Refrigerant tubing (liquid) | Ø9,52 (flared) |
| 4 | Refrigerant tubing (gas) | Ø15,88 (flared) |
| 5 | Left side drain hose outlet port (cut out) | |
| 6 | Tubing hole on wall surface | Ø100mm |
| 7 | Upper side tubing port | |
| 8 | Right side drain hose outlet port (cut out) | |
| 9 | Wireless remote controller receiver installation location | |

**S-73MT2E5A**

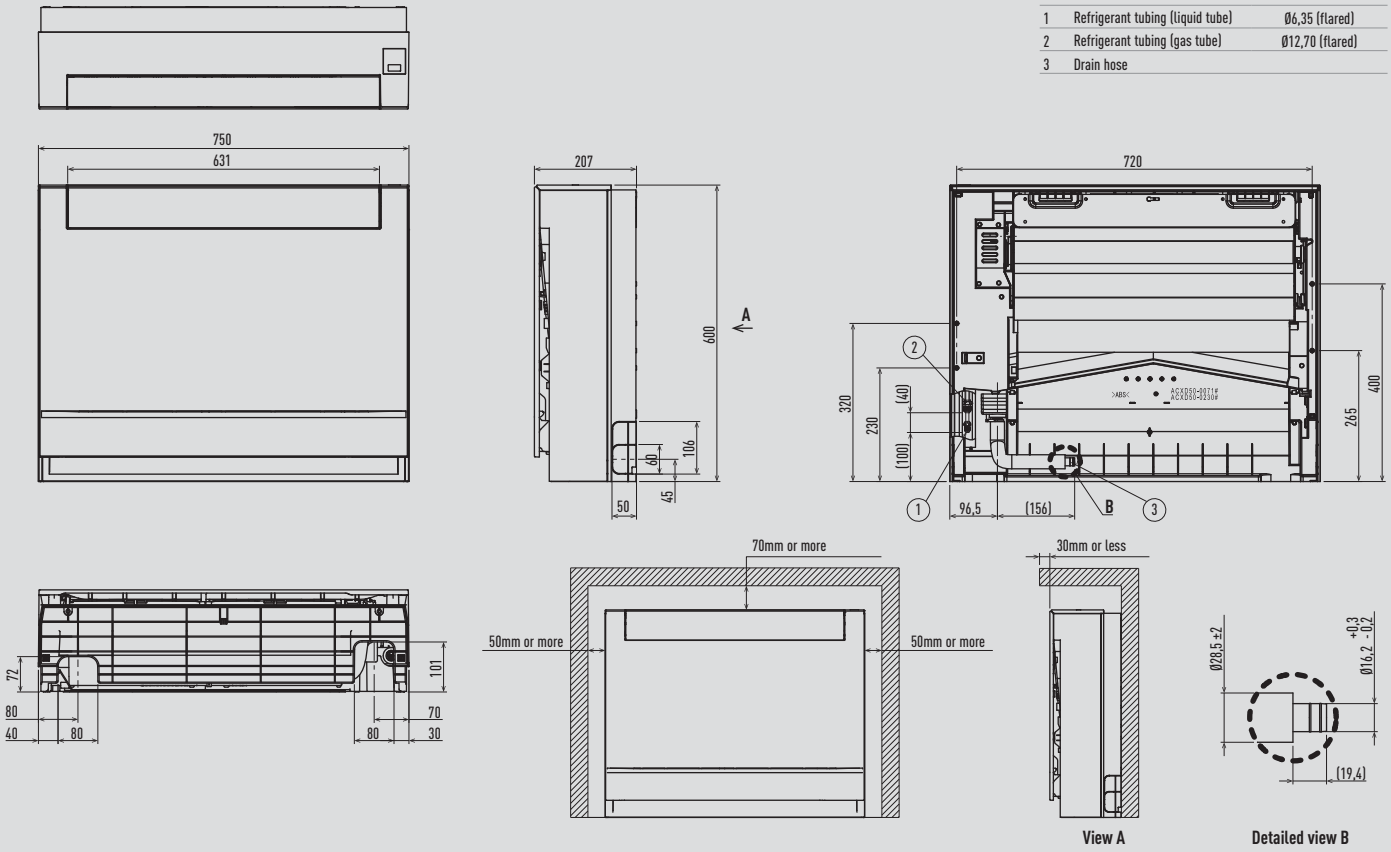



**S-106MT2E5A / S-140MT2E5A**




Unit: mm

## G1 Type Floor Console

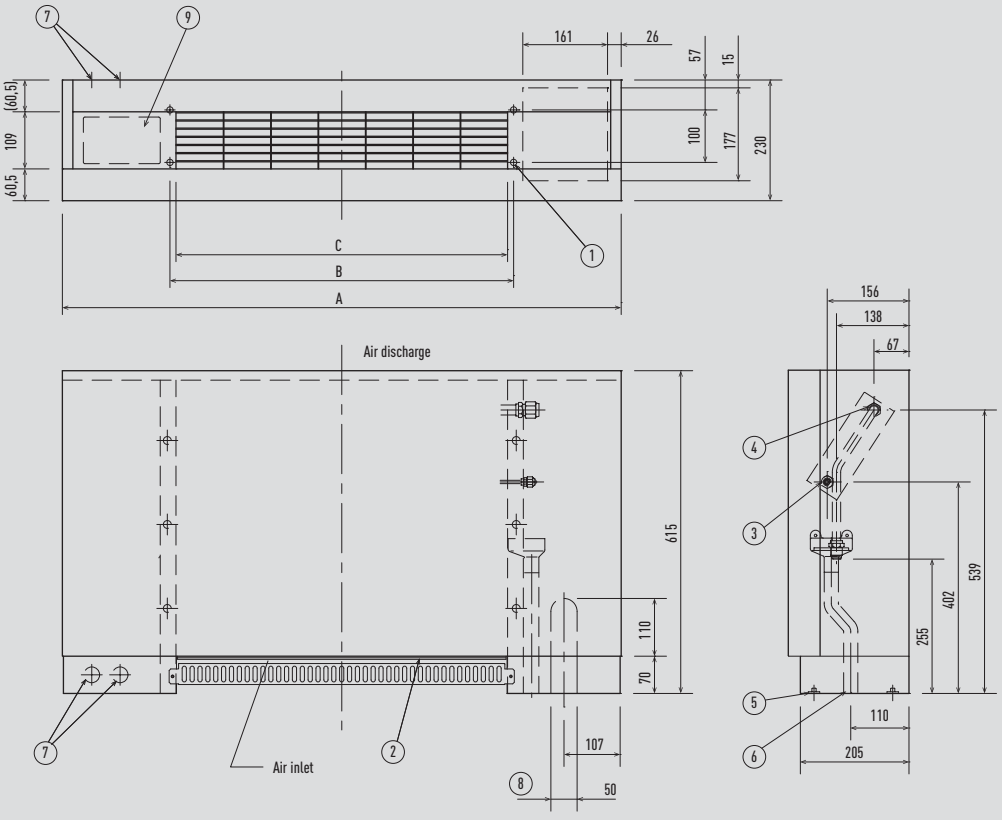



Unit: mm

## P1 Type Floor Standing

| | |
|---|---|
| 1 | 4-Ø12 hole (for fastening the indoor unit to the floor with screws) |
| 2 | Air filter |
| 3 | Refrigerant tubing (liquid) |
| 4 | Refrigerant tubing (gas) |
| 5 | Level adjusting bolt |
| 6 | Drain tube connection port (20 A) |
| 7 | Power cord outlet (downward, rear) |
| 8 | Refrigerant piping outlet (downward, rear) |
| 9 | Location for mounting the remote controller (remote controller can be attached within the room) |

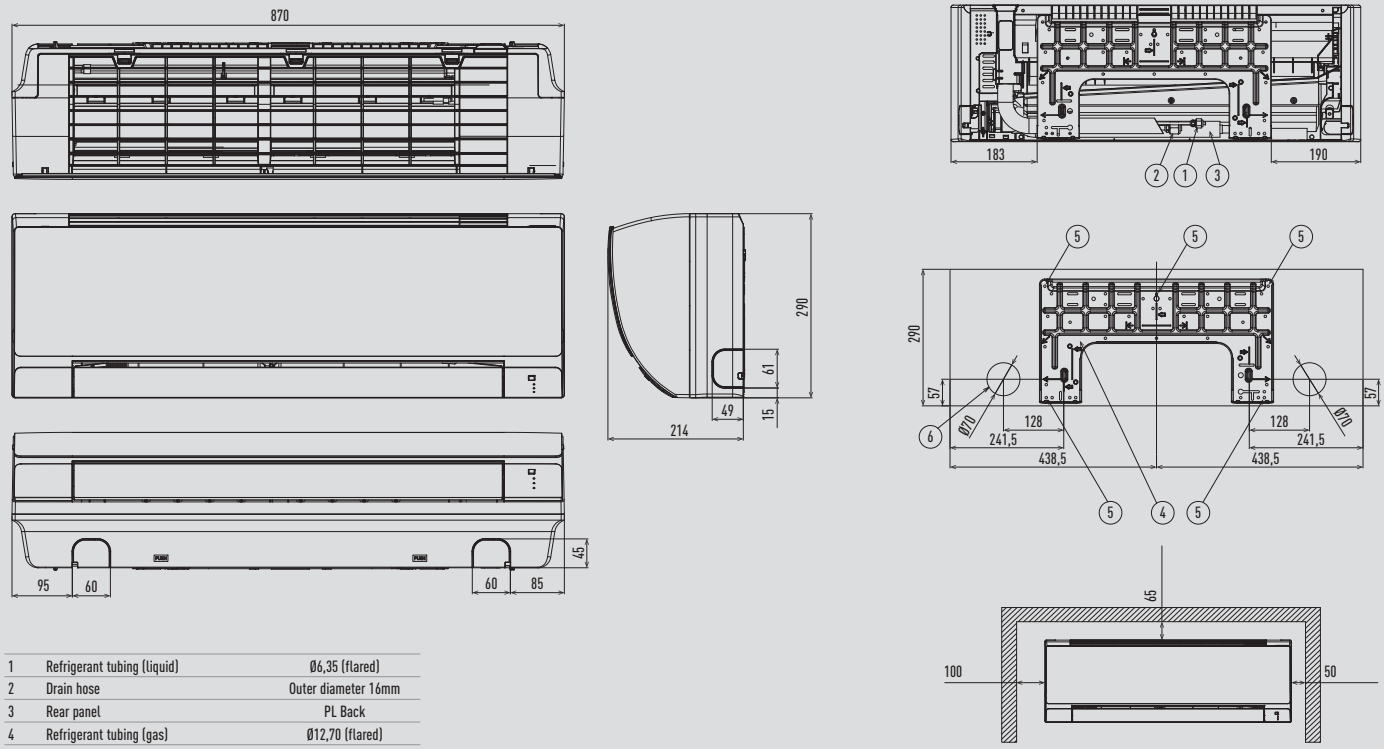
| | A | B | C | Liquid pipes | Gas pipes |
|---|---|---|---|---|---|
| 22-36 | 1065 | 665 | 632 | Ø6,35 | Ø12,70 |
| 45 | 1380 | 980 | 947 | | |
| 56 | | | | | |
| 71 | | | | Ø9,52 | Ø15,88 |




Unit: mm

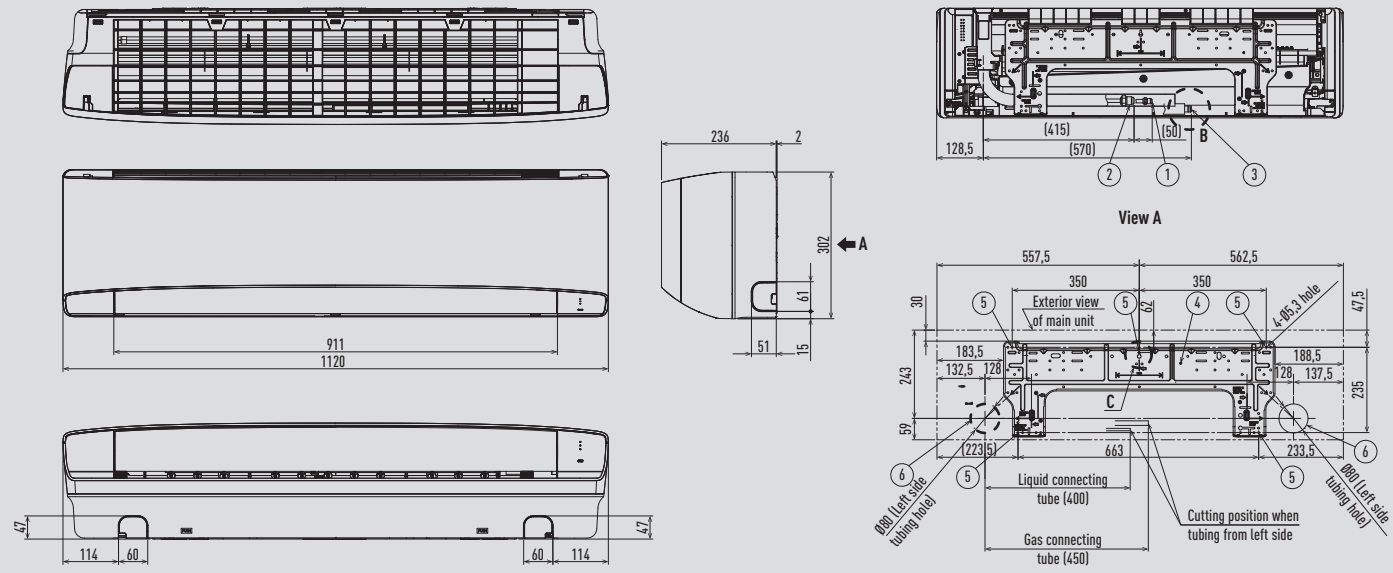
## K2 Type Wall Mounted

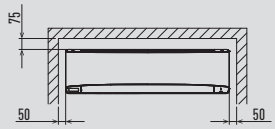
**S-15MK2E5A / S-22MK2E5A / S-28MK2E5A / S-36MK2E5A**



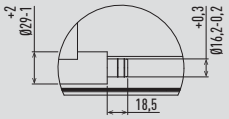

| | | |
|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø6,35 (flared) |
| 2 | Drain hose | Outer diameter 16mm |
| 3 | Rear panel | PL Back |
| 4 | Refrigerant tubing (gas) | Ø12,70 (flared) |
| 5 | Rear panel fixing holes | |
| 6 | Piping and wiring holes | Ø70 |

**S-45MK2E5A / S-56MK2E5A / S-73MK2E5A / S-106MK2E5A**

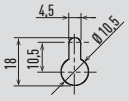



Minimum space requirements for installation




Detailed view B




Detailed view C

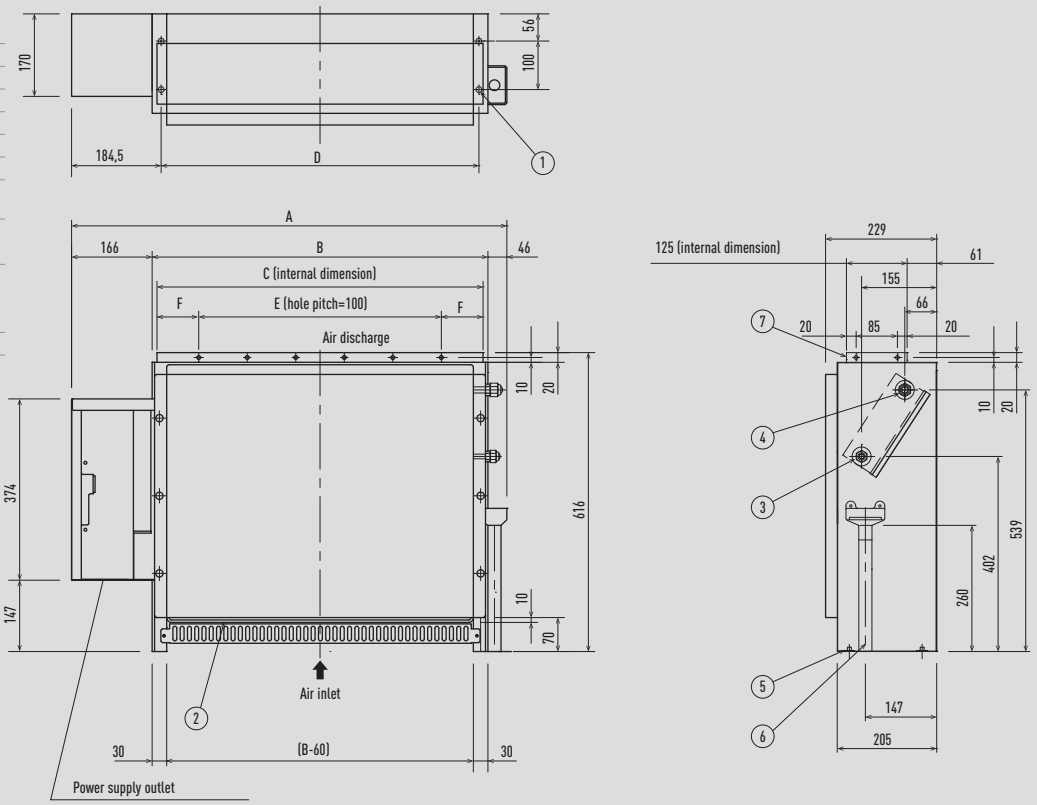
| Type | | 45-56 | 73-106 |
|---|---|---|---|
| 1 | Refrigerant tubing (liquid) | Ø6,35 (flared) | Ø9,52 (flared) |
| 2 | Refrigerant tubing (gas) | Ø12,70 (flared) | Ø15,88 (flared) |
| 3 | Drain hose | | |
| 4 | Rear panel | | |
| 5 | Rear panel fixing holes (Ø5,3 holes or as shown in figure "C") | | |
| 6 | Tubing and wiring holes (Ø80) | | |

Unit: mm

## R1 Type Concealed Floor Standing

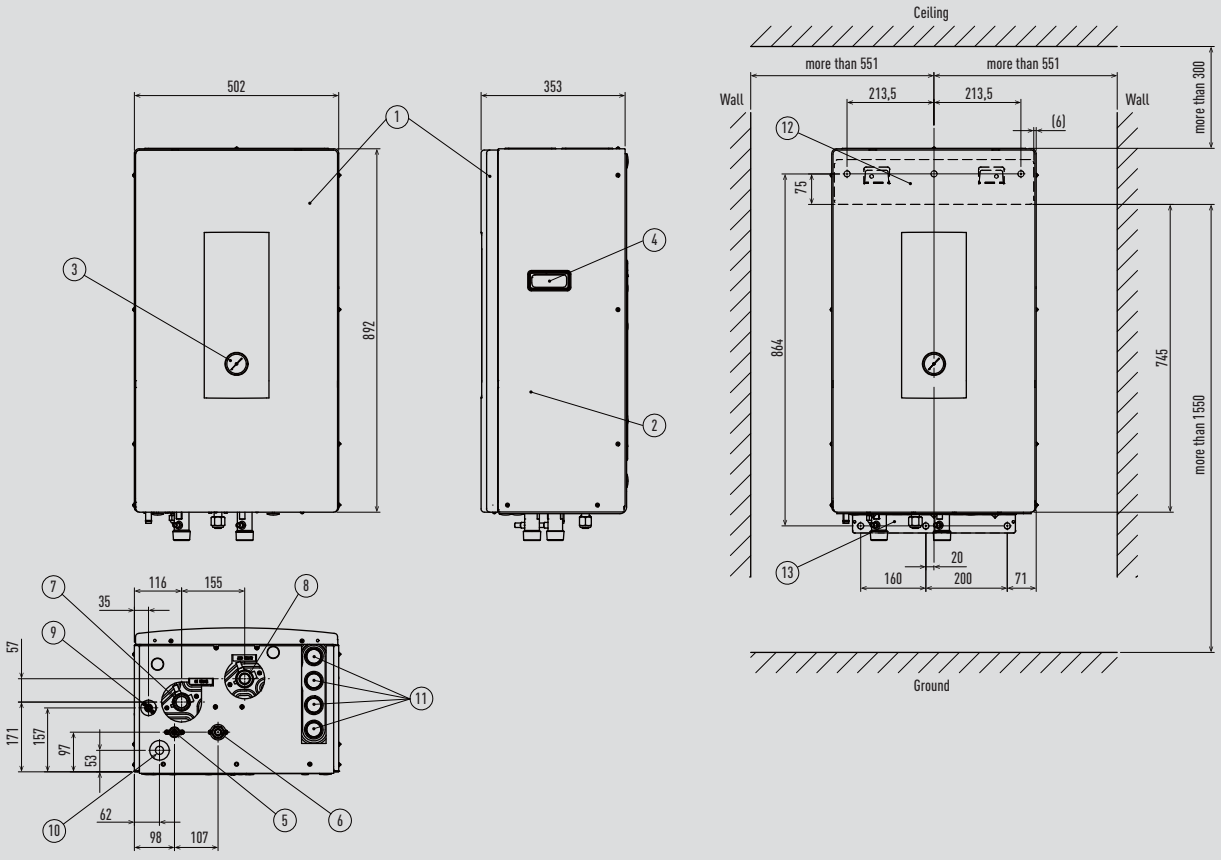
| | |
|---|---|
| 1 | 4-Ø12 hole (for fastening the indoor unit to the floor with screws) |
| 2 | Air filter |
| 3 | Refrigerant tubing (liquid) |
| 4 | Refrigerant tubing (gas) |
| 5 | Level adjusting bolt |
| 6 | Drain tube connection port (20 A) |
| 7 | Flange for the air-outlet duct |

| | A | B | C | D | E | F | Liquid pipes | Gas pipes |
|---|---|---|---|---|---|---|---|---|
| 22-36 | 904 | 692 | 672 | 665 | 500 | 86 | Ø6,35 | Ø12,70 |
| 45 | | | | | | | | |
| 56 | 1219 | 1007 | 1002 | 980 | 900 | 51 | | |
| 71 | | | | | | | Ø9,52 | Ø15,88 |



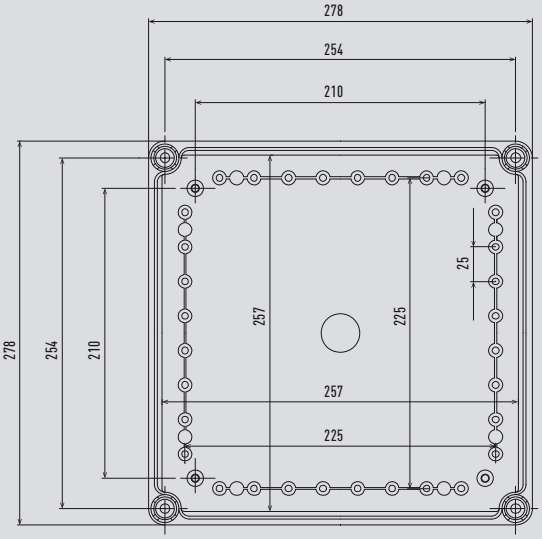

Unit: mm

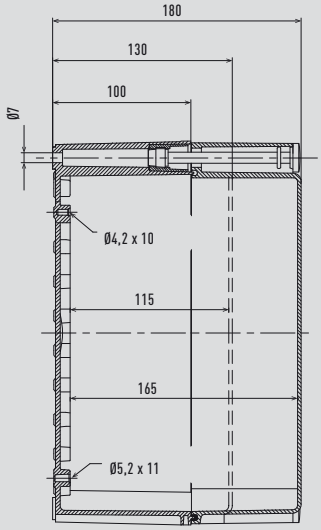
## Hydrokit for ECOi, water at 45°C




Unit: mm

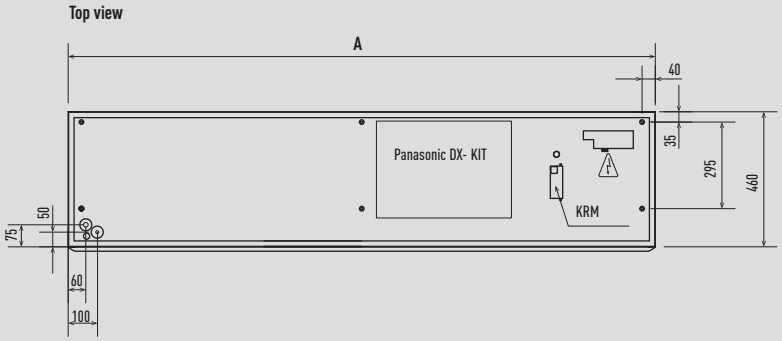
## AHU Connection Kit

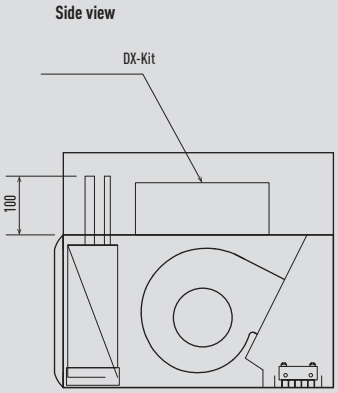


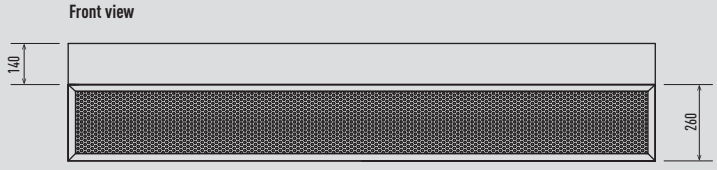



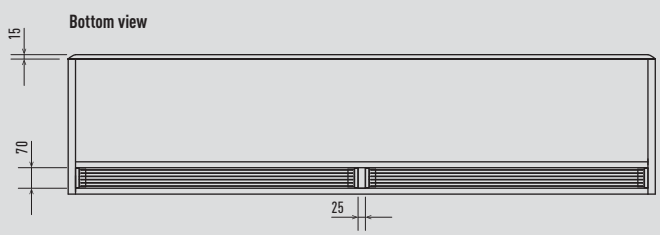

Unit: mm

## Air Curtain with DX Coil



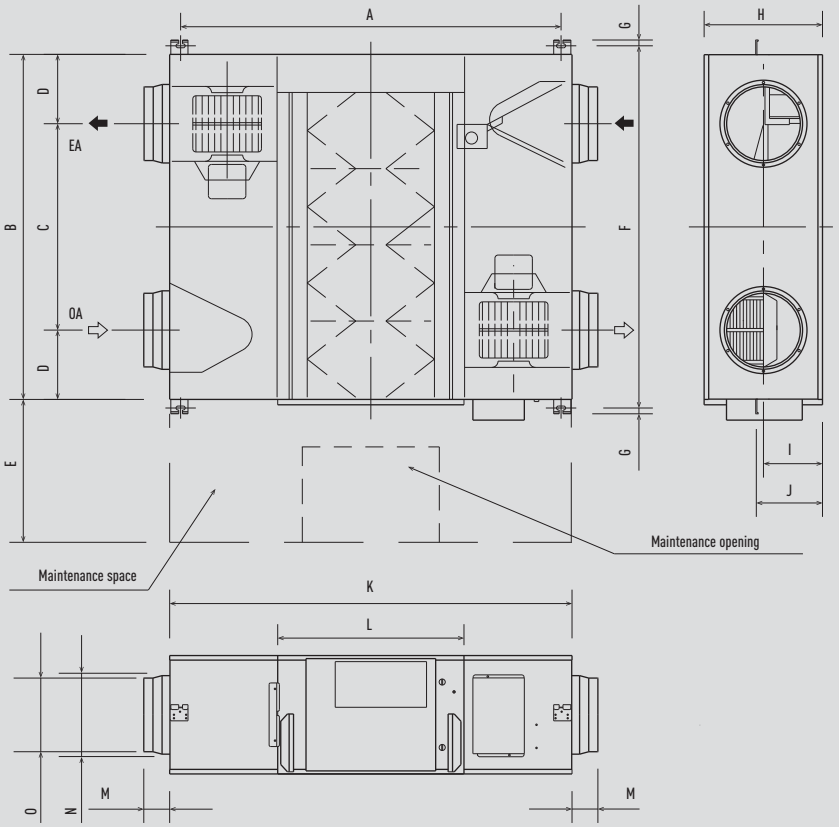




| | PAW-10EAIRC-LS | PAW-15EAIRC-LS | PAW-20EAIRC-LS | PAW-25EAIRC-LS |
|---|---|---|---|---|
| | PAW-10EAIRC-HS | PAW-15EAIRC-HS | PAW-20EAIRC-HS | PAW-25EAIRC-HS |
| A | 1,0m | 1,5m | 2,0m | 2,5m |

Unit: mm

## Energy Recovery Ventilation System

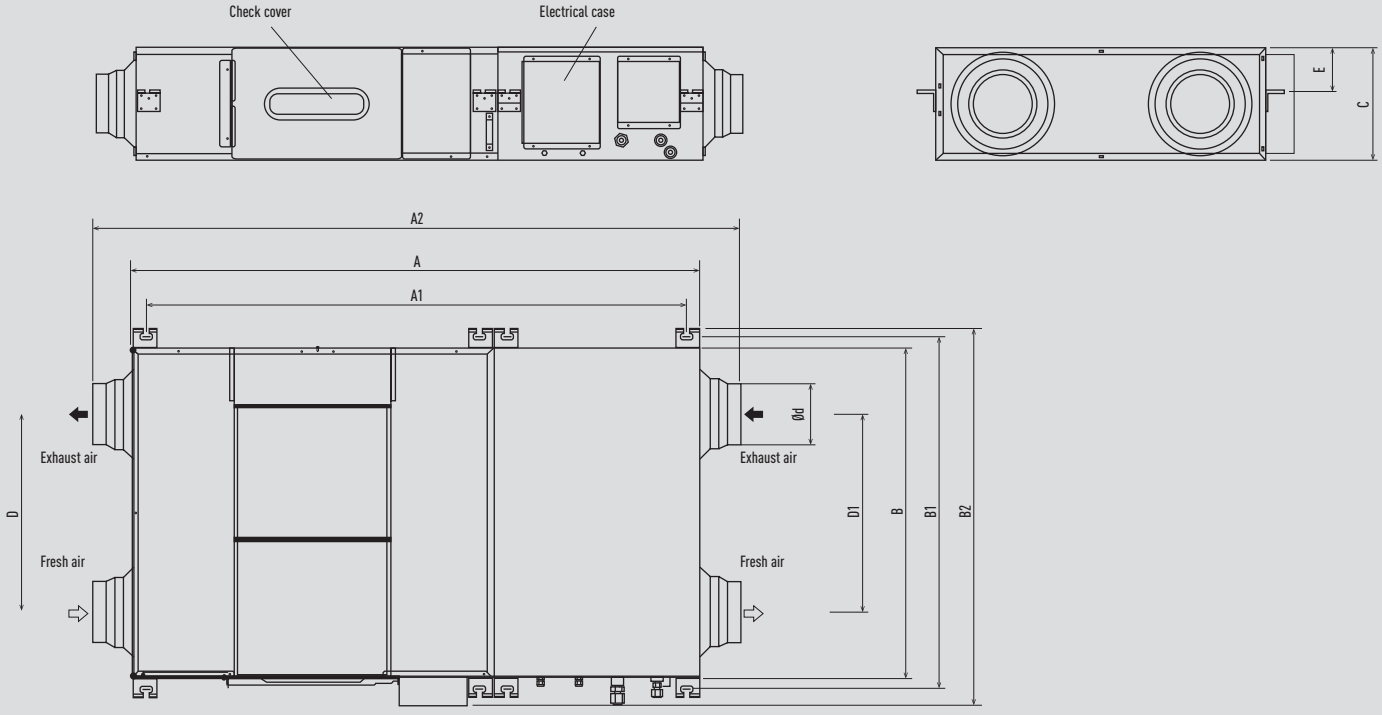



| | FY-250ZDY8R | FY-350ZDY8R | FY-500ZDY8R | FY-800ZDY8R | FY-01KZDY8R |
|---|---|---|---|---|---|
| A | 810 | 810 | 890 | 1250 | 1250 |
| B | 599 | 804 | 904 | 884 | 1134 |
| C | 315 | 480 | 500 | 428 | 678 |
| D | 142 | 162 | 202 | 228 | 228 |
| E | 600 | 600 | 600 | 600 | 600 |
| F | 655 | 860 | 960 | 940 | 1190 |
| G | 19 | 19 | 19 | 19 | 19 |
| H | 270 | 317 | 317 | 288 | 388 |
| I | 135 | 145 | 145 | 194 | 194 |
| J | 159 | 159 | 159 | 218 | 218 |
| K | 882 | 882 | 962 | 1322 | 1322 |
| L | 414 | 414 | 414 | 612 | 612 |
| M | 95 | 95 | 107 | 85 | 85 |
| N | 219 | 219 | 246 | 258 | 258 |
| O | 144 | 144 | 194 | 242 | 242 |

Unit: mm

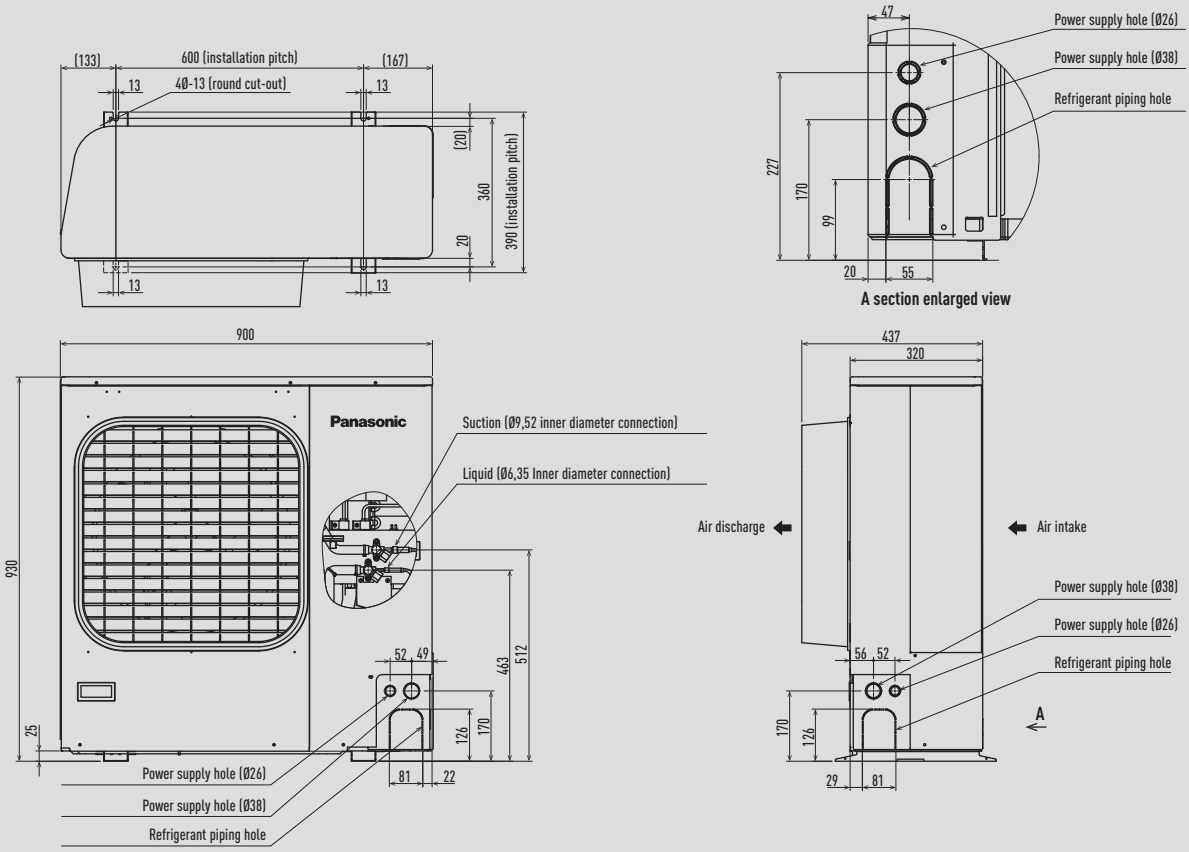
## Heat Recovery with DX Coil

| | A | A1 | A2 | B | B1 | B2 | C | D | D1 | Ød | E | Net weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PAW-500ZDX3N** | 1822 | 1752 | 1986 | 882 | 936 | 994 | 390 | 431 | 431 | 250 | 169 | 81 |
| **PAW-800ZDX3N** | 1822 | 1752 | 1986 | 1132 | 1186 | 1244 | 390 | 431 | 431 | 250 | 169 | 87 |
| **PAW-01KZDX3N** | 1822 | 1752 | 1986 | 1132 | 1186 | 1244 | 390 | 681 | 532 | 250 | 169 | 87 |



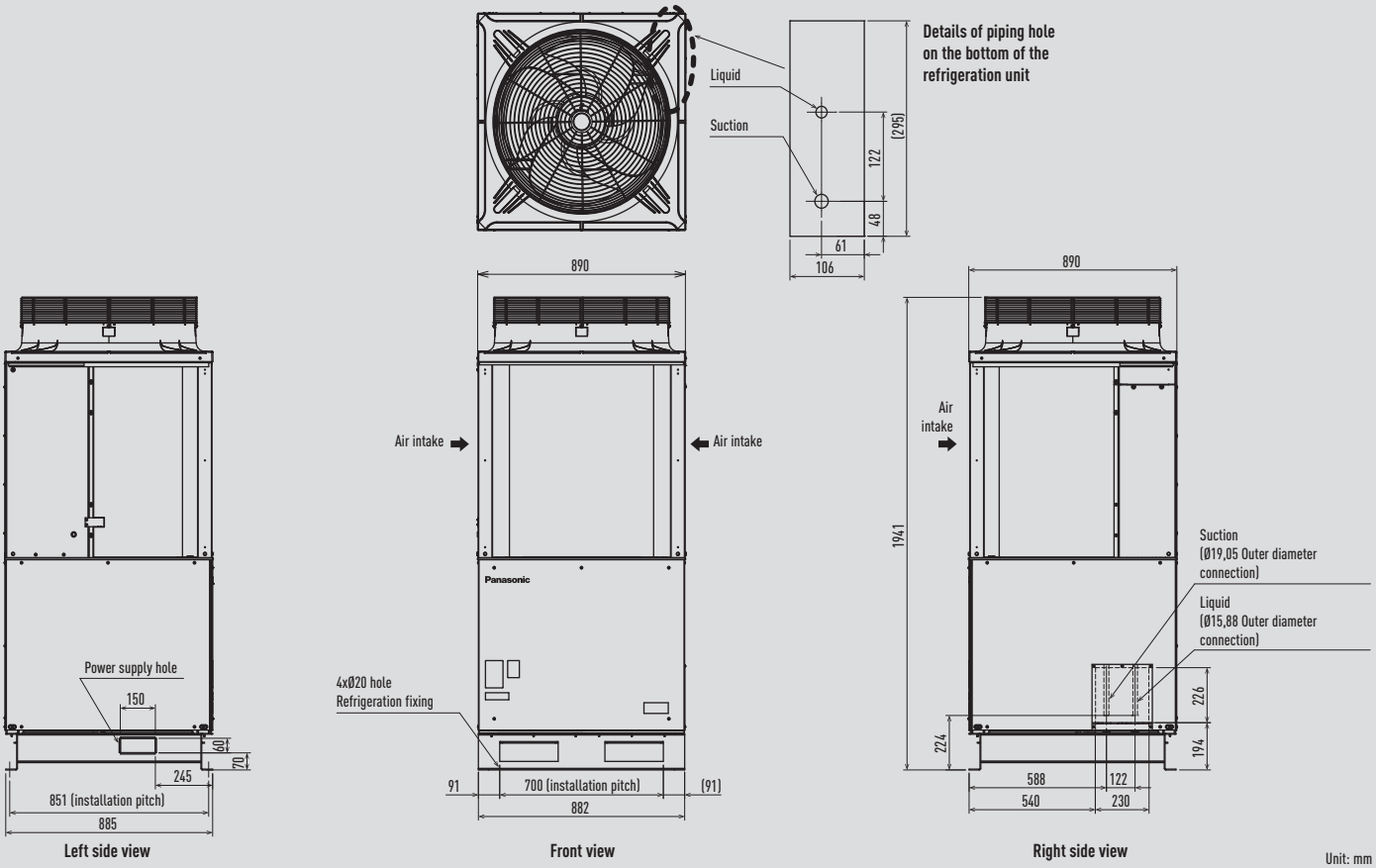

Unit: mm

## Condensing units VF Series 4,00kW



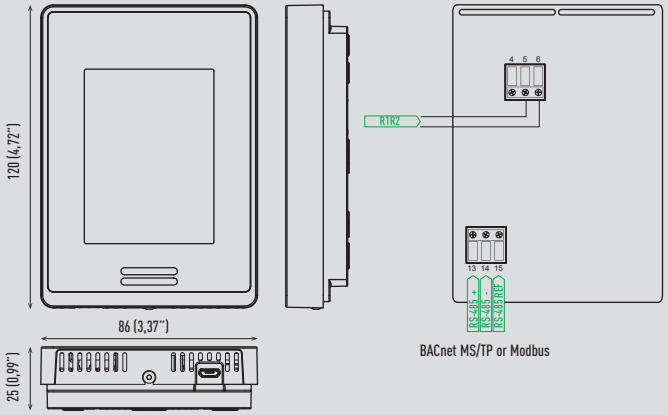

Unit: mm

## Condensing units VF Series 15,00 and 14,00kW




Unit: mm

## Room controller for SE8000




Check with your local government for instruction on disposal of these products.

THIS PRODUCT FOR COMMERCIAL USE ONLY.

**Dimensions:**
Height: 12cm/4,72in.
Width: 8,6cm/3,39in.
Depth: 2,7cm/1,06in.

**Power requirements:**
16 Vdc from Panasonic R-R IDU connectors.
50/60 Hz, 4VA, Class 2 Supply.

**Range from indoor unit:**
Recommended 500ft (150 m).

**Operating conditions:**
0 °C to 50°C (32°F to122°F).
0% to 95% R.H. non-condensing.

**Storage conditions:**
-30°C to 50°C (-22°F to 122°F).
0% to 95% R.H. non-condensing.

**Temperature sensor:**
Local 10 K NTC type 2 thermistor.

**Temperature sensor resolution:**
± 0,1°C (± 0,2°F).

**Temperature sensor accuracy:**
± 0,5°C (± 0,9°F ) @ 21°C (70°F) typical calibrated.

**Humidity sensor and calibration:**
Single point calibrated bulk polymer type sensor.

**Humidity sensor precision:**
Reading range from 10% to 90 % R.H. non-condensing.
10% to 20% precision: 10%.
20% to 80% precision: 5%.
80% to 90% precision: 10%.

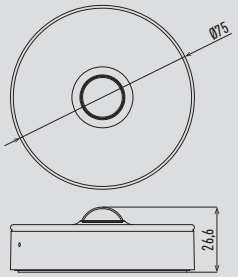
**Humidity sensor stability:**
Less than 1,0% yearly (typical drift).

**Wiring:**
Maximum wire length between last indoor unit to SER8150RxB1194 equals 490ft (150m) with AWG #18 wire (0,82mm²).
Refer to Panasonic VRF guidelines "Wiring system diagram for remote controller" for this limitation.

**Approximate shipping weight:**
0,34kg (0,75lb)

Unit: mm

## Wall/ceiling wireless sensor SED-MTH-G-5045




**Certification**

Check with your local government for instruction on disposal of these products.

**Dimensions:**
70mm diameter x 26,6mm.

**Colour:**
White.

**Weight:**
59g.

**Communication:**
ZigBee 3,0 HA.

**Detection range:**
Ceiling: Ø4m (installation height 2,5m).
Wall: R5m (installation height 1,2m).

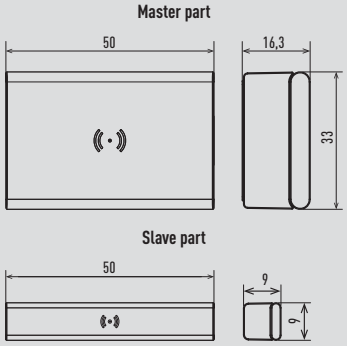
**Battery voltage:**
3V.

**Battery cell:**
LR03 AAA (2 pcs).

**Battery life:**
Up to 5 years.

**Ambient temperature:**
-10°C ~ +50°C.

## Door/window wireless sensor SED-WDC-G-5045




**Certification**

Check with your local government for instruction on disposal of these products.

**Dimensions:**
Master part: 50 x 33 x 16,3mm.
Slave part: 50 x 9 x 9mm.

**Colour:**
White / transparent.

**Weight:**
30g

**Communication:**
ZigBee 3,0 HA.

**Detection range:**
Trigger 'close': wood 30mm, metal 18mm.
Trigger 'open': wood 32mm, metal 20mm.

**Battery voltage:**
3V.

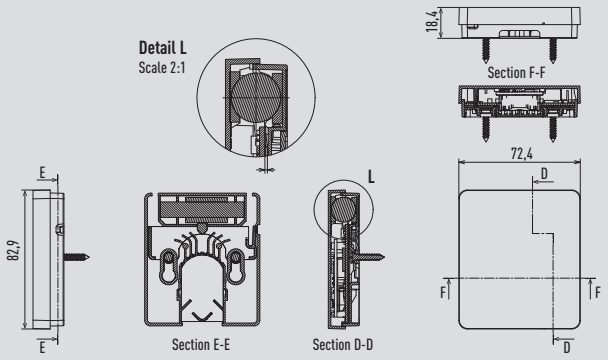
**Battery cell:**
CR2450.

**Battery life:**
Up to 5 years.

**Ambient temperature:**
-10°C ~ +50°C.

Unit: mm

## $CO_2$ sensor SED-CO2-G-5045




**Certification**

Check with your local government for instruction on disposal of these products.

**Dimensions:**
3,26 x 2,85 x 0,72 inches.
82,9 x 72,4 x 18,4mm.

**Operating temperature:**
0°C to 50°C (32°F to 122°F).

**Temperature accuracy:**
±0,3°C (0,54 °F) typical within operating range.

**Humidity range:**
0% to 100%.

**Humidity accuracy:**
± 3% RH (typical within 0% to 80% RH).

**Measurement range:**
0 to 5000ppm.

**Measurement/Transmission intervals:**
2,5 minutes (day), 10 minutes (evening).
Note: Battery life will be reduced should interval be shortened (i,e, using remote temperature/humidity functions).

**$CO_2$ accuracy at NTP:**
±60ppm +3% of reading (400 - 2,000ppm range).

**Communication:**
Zigbee 3,0 Green Power (encrypted, bi-directional).

**Battery voltage:**
3,6V.

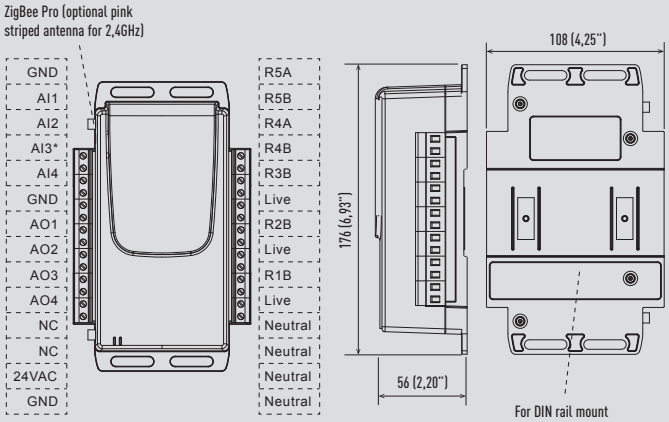
**Battery cell:**
AA Lithium ion.

**Battery life:**
10+ years (non-replaceable).
Note: Battery life can be reduced when sensor is operated at temperatures approaching the operating limits.

**Ambient temperature:**
-30°C to 70°C.

Unit: mm

## Relay pack TE2




* AI3 can be used for pulse counting when ZigBee is paired directly to MPM.

**Dimensions:**
6,93 x 4.25 inches.
176 x 108mm.

**Voltage:**
24VAC; ± 15%; 50/60Hz; Class 2.
24VDC ± 10%.
115VAC/230VAC.

**Typical consumption:**
10VA (115/230VAC).
5VA (24V).

**Inputs:**
Pulse input: Support for one fast pulse input counting (up to 1000Hz / 1ms) – AI3.

**Certification**

4001432

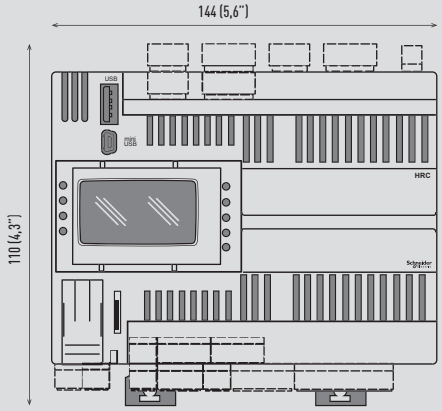
**Outputs:**
Analog (x4): 0-12V, nominal 50mA maximum each, 12-bit resolution.
Relay (x5) (optional): Maximum 230VAC, 5A per relay.
First three relays (R1, R2 and R3) or based on input power voltage (24V, 115VAC or 230VAC).
Two relays (R4 and R5) are independent of the input power voltage.
Analog (x1): 24VAC, 2VA (115 VAC and 230 VAC Voltage only models, one additional output).
(*20VAC if used with 110V 50Hz).

**ZigBee Pro range:**
Frequency: 2400 to 2483.5MHz, 16RF channels.
Non line of sight to MPM: 50ft/17m.
Line of sight to MPM: 100ft/30m.

* Power supply is not included.

Check with your local government for instruction on disposal of these products.

## Hotel room controller (HRC)




**Dimensions:**
5,6 x 4,3 x 2,4 inches.
144 x 110 x 60,5mm.

**Digital inputs:**
12.

**High voltage relay digital outputs:**
10 x 3 A SPST +250 VAC relays.

**Analog inputs:**
2 x configurable analog inputs.
DI: voltage free DI, 10 kΩ input impedance.
0-20mA: range 0,1000, < 150 Ω impedance.
0-10V: range 0,1000 > 10 kΩ impedance.

**Analog outputs:**
6 x 0-10V outputs, Load impedance > 700 Ω.

**Certification**

**Supply voltage:**
24VAC + 10% NOT ISOLATED.
+20...38Vdc NOT ISOLATED.

**Supply frequency:**
50 / 60Hz.

**Power cycle:**
35VA / 15W.

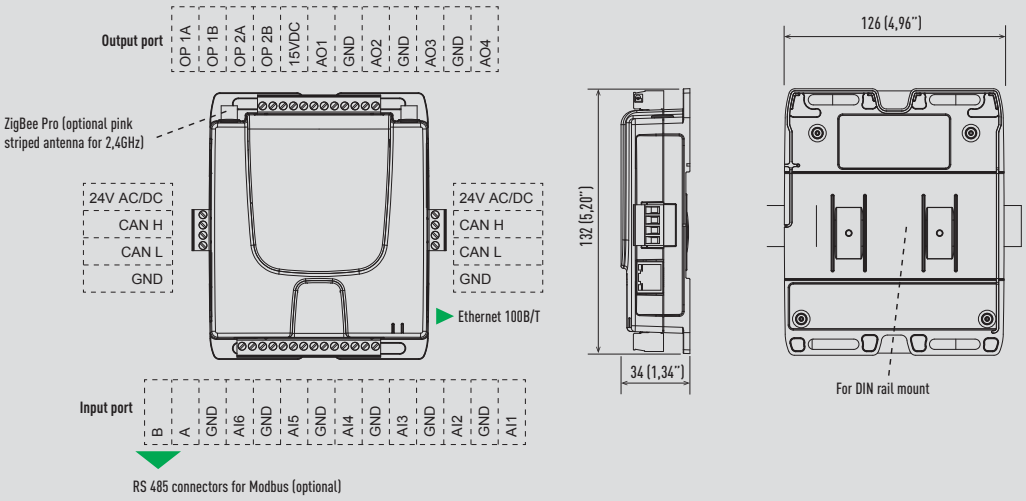
**Operating temperature:**
-20 to 60°C (-4 to 140°F) conforming to UL 60730-1.

**Storage temperature:**
-30 to 70°C (-22 to 158°F).

* Power supply is not included.

Check with your local government for instruction on disposal of these products.

## BEMS Gateway MPM




**Dimensions:**
5,20 x 4,96 inches.
132 x 126mm.

**Voltage:**
24VAC; ± 15%; 50/60Hz.
24VDC ± 10%.

**Typical consumption communication:**
5VA + Output (VAC), 1,6W + Output (VDC).
ZigBee Pro, EnOcean, BACnet.
CANbus (125-500Kbps).
Ethernet (10/100Mbps).

**Analog inputs:**
Current: 4-20mA with 249 external resistor.
Voltage: 0-10V.

**Outputs:**
Analog (x4): 0-12V,nominal 50mAmax each, 12-bit resolution.
Relay (x2): 24V, 1,1 Amp per relay.

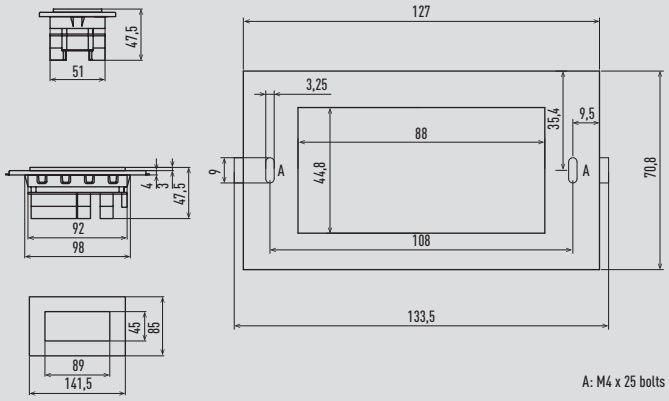
**RS485 (optional):**
Supported protocols: Modbus.

**ZigBee Pro (optional):**
Frequency: 868MHz, 902MHz.

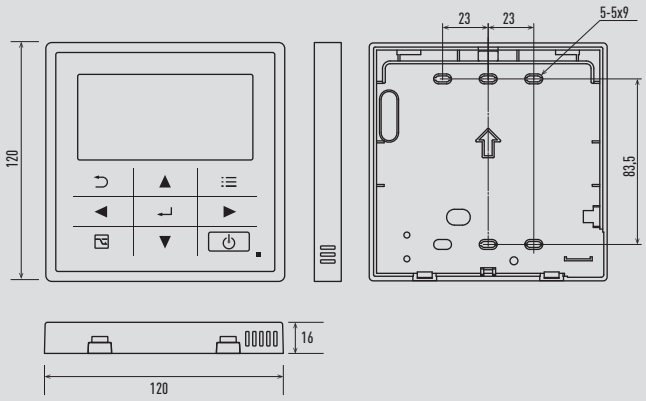
**Certification**

Check with your local government for instruction on disposal of these products.

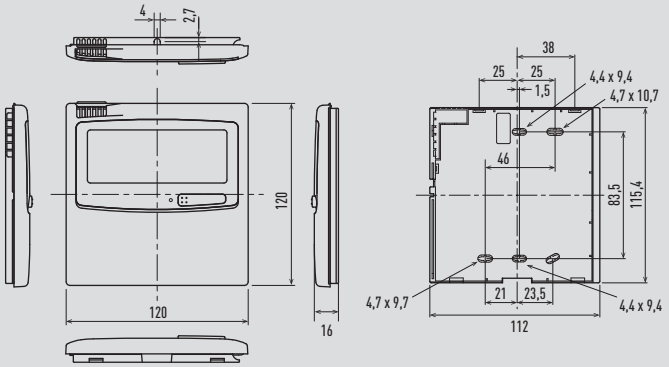
## PAW-RE2C3 Hotel Controller



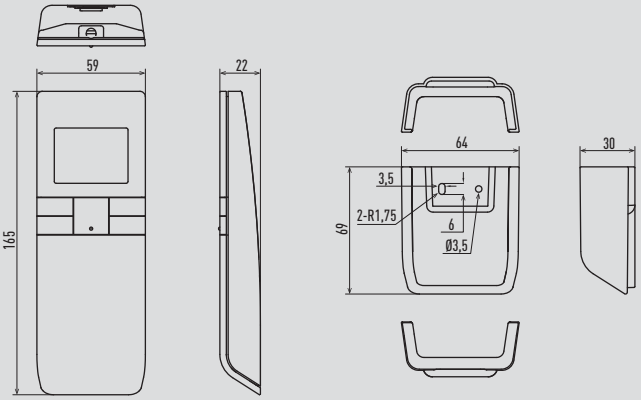

## CZ-RTC5B Design wired remote controller



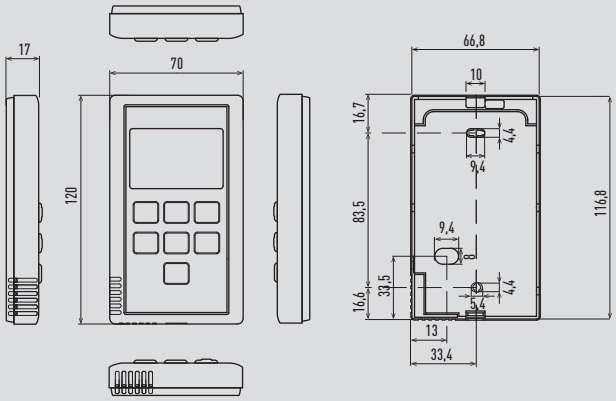

## CZ-RTC2 Wired remote controller. Normal operation



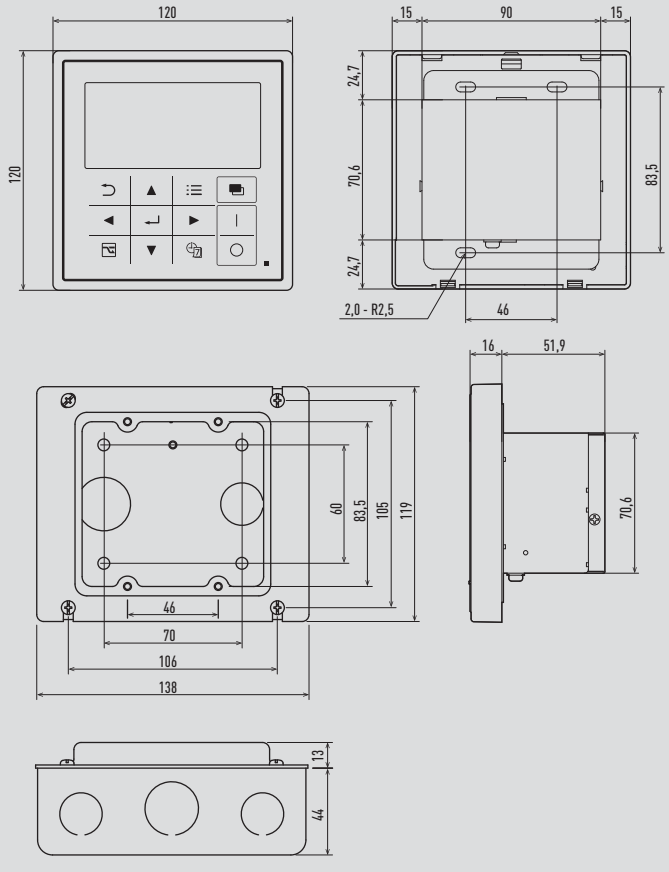

## CZ-RWS3 Wireless remote control



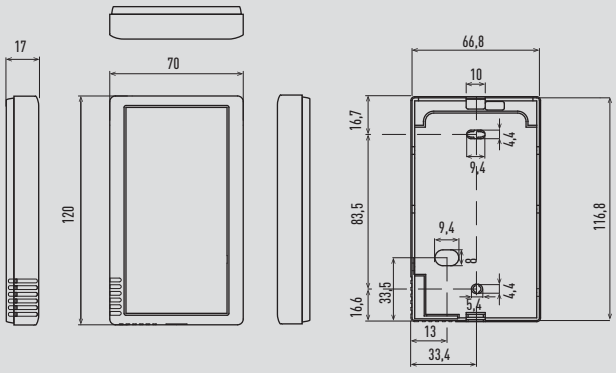

## CZ-RE2C2 Simplified remote controller




## CZ-64ESMC3 System Controller with Schedule timer

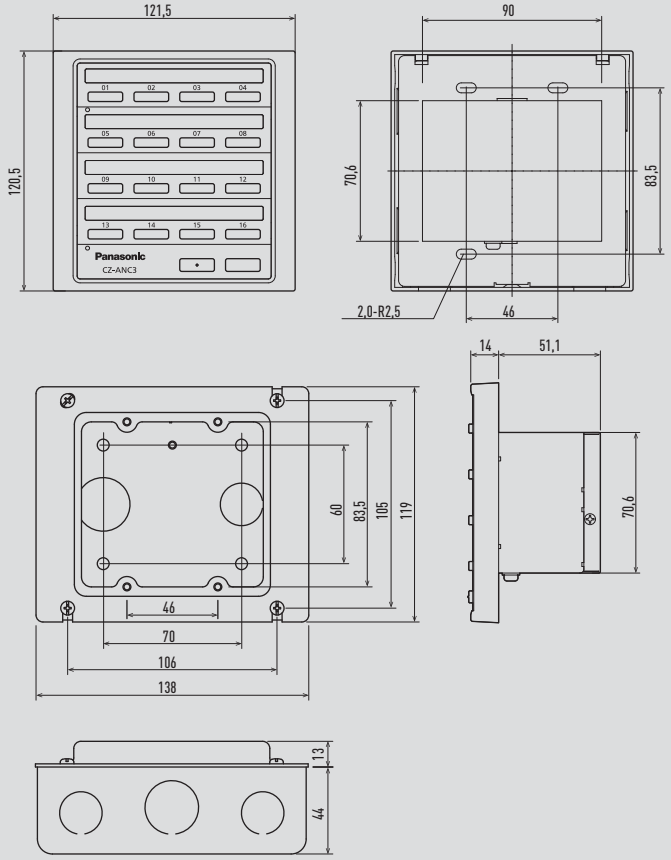



## CZ-CSRC3 Remote sensor

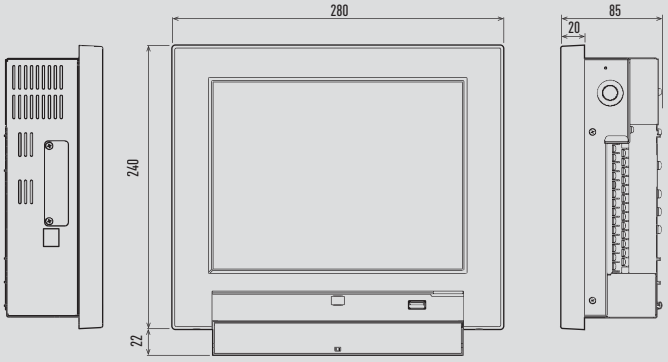



Unit: mm

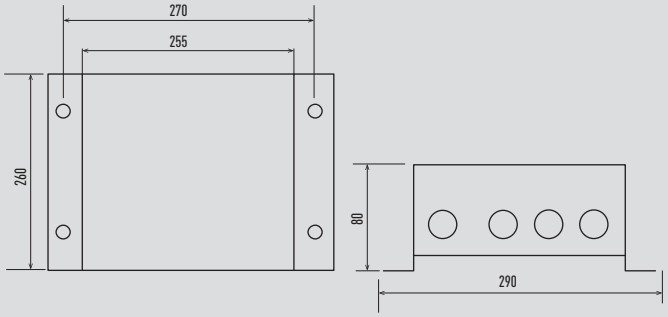
## CZ-ANC3 ON/OFF Controller



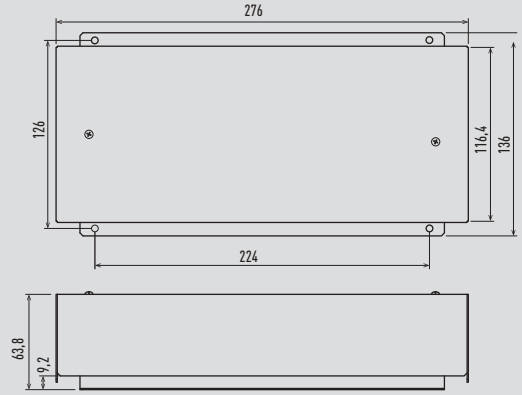

## CZ-256ESMC3 Intelligent Controller (Touch screen panel)



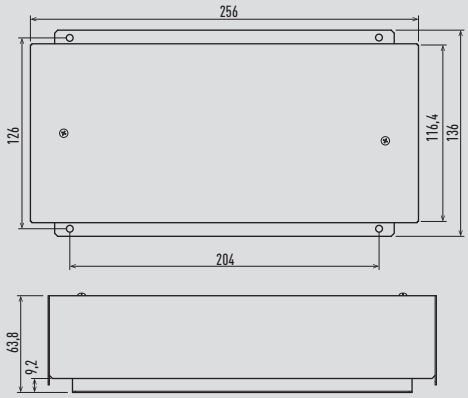

## CZ-CAPDC2 Seri-Para I/O unit for outdoor unit



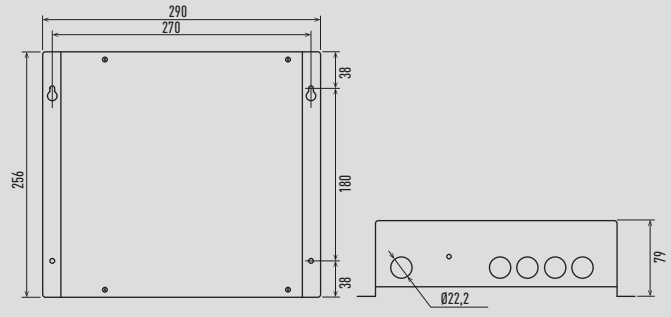

## CZ-CAPC3 Local adaptor for ON/OFF control



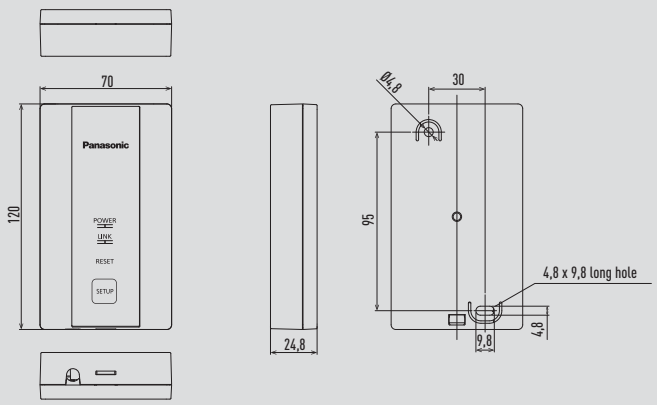

## CZ-CAPBC2 Mini Seri-Para I/O Unit 0 -10V




## CZ-CFUNC2 Communication Adaptor




## CZ-CAPWFC1 Commercial WLAN adapter

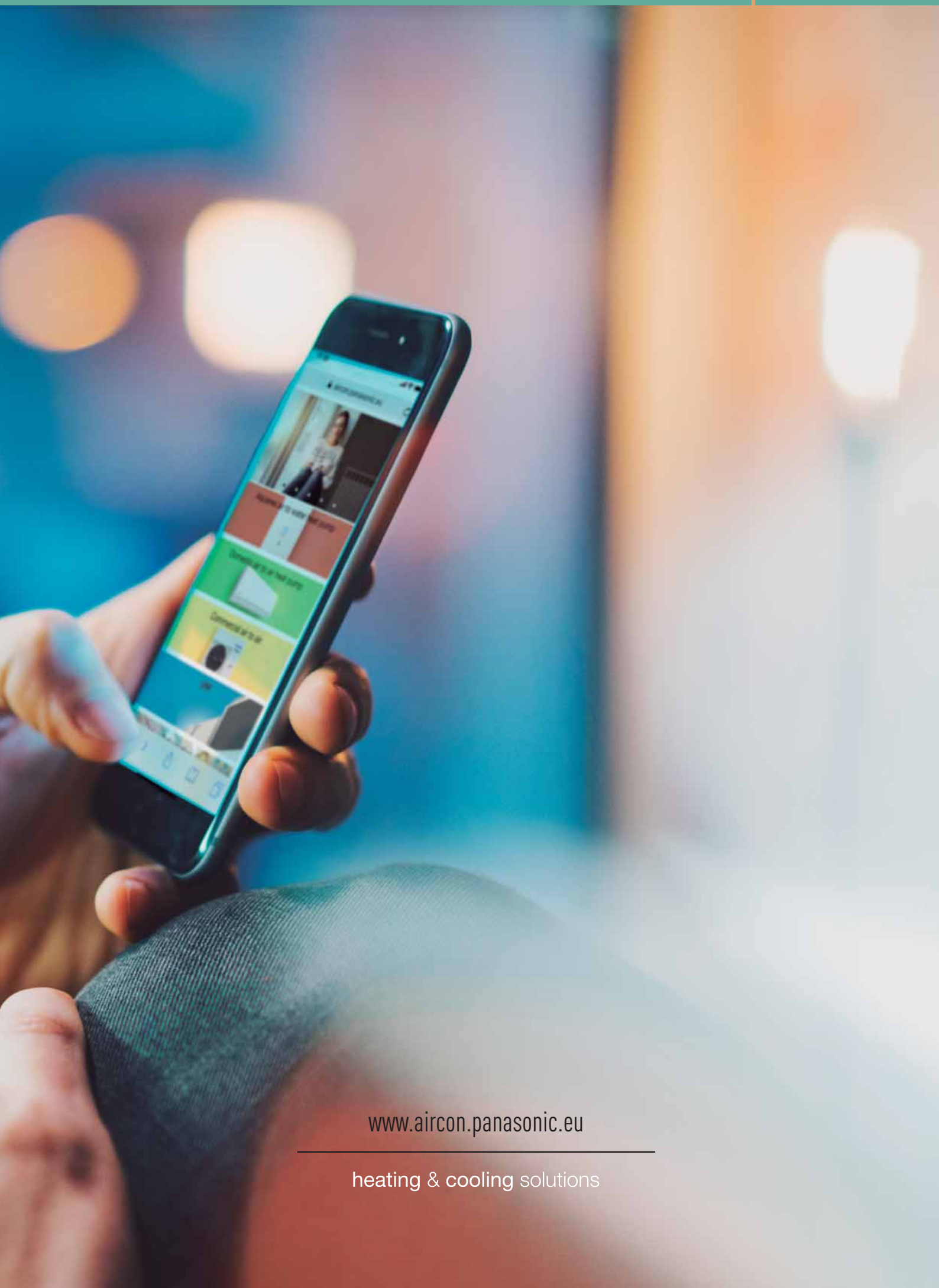



Unit: mm

# NOTES

# NOTES





www.aircon.panasonic.eu

heating & cooling solutions

Due to the ongoing innovation of our products, the specifications of this catalogue are valid barring typographic errors, and may be subject to minor modifications by the manufacturer without prior warning in order to improve the product. The total or partial reproduction of this catalogue is prohibited without the express authorisation of Panasonic Marketing Europe GmbH.

www.eggassociats.net

**UK / Ireland**
**Panasonic House**
Panasonic Heating & Cooling Systems
Willoughby Road
Bracknell, Berkshire
RG12 8FP

01344 85 3182
uk-aircon@eu.panasonic.com
www.aircon.panasonic.eu

**France / Belgium / Luxemburg**
**Panasonic France**
Division Chauffage et Climatisation
1 à 7 Rue du 19 Mars 1962
92238, Gennevilliers Cedex

www.aircon.panasonic.eu

**Germany / Austria / Switzerland**
**Panasonic Deutschland**
Hagenauer Str. 43
65203 Wiesbaden

Hotline Germany: 0800-200 22 23
Hotline Austria: 0800-700 666
Hotline Switzerland: 0800-001 074
klimaanlagen@eu.panasonic.com
heizung@eu.panasonic.com
www.aircon.panasonic.eu

**Turkey**
**Panasonic Elektronik Satis A.S.**
Abdurrahmangazi Mah. Ebubekir Cad.
No: 44
34887 Sancaktepe - Istanbul

+90 216 6810400
contact.ptr@eu.panasonic.com
www.aircon.panasonic.eu

**Czech Republic / Slovakia**
**Panasonic Marketing Europe GmbH, organizační složka Česká republika**
Palac Karlin, Thamova 289/13
186 00 Prague 8, Czech Republic

+420 236 032 511
panasonic.praha@eu.panasonic.com
www.aircon.panasonic.eu

**Spain / Portugal**
**Panasonic España**
WTC Almeda Park, Plaza de la Pau s/n,
Edificio 8, Planta baja
08940, Cornellá de Llobregat / Barcelona

902 15 30 60
www.aircon.panasonic.eu

**Italy / Malta**
**Panasonic Italia**
Viale dell'Innovazione, 3
20126, Milano

02-67072556
www.aircon.panasonic.eu

**Sweden**
**Panasonic Nordic**
Telefonvägen, 26
126 26 Hägersten

+46 8 680 26 00
www.aircon.panasonic.eu

**Poland**
**Panasonic Marketing Europe GmbH**
**Oddział w Polsce Sp. z o.o.**
Wołoska 9A
02-583, Warszawa

+48 801 801 887
AirCon_Warsaw@eu.panasonic.com
www.aircon.panasonic.eu

**Netherlands**
**Panasonic Netherlands**
Europalaan 28E
5332 BC, 's-Hertogenbosch

+31 73 6402 538
airconditioning.nl@eu.panasonic.com
www.aircon.panasonic.eu

**Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.**
**The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.**

Panasonic®

**To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu**

**Panasonic Marketing Europe GmbH**
**Panasonic Air Conditioning**
Hagenauer Strasse 43, 65203 Wiesbaden, Germany