

PANASONIC NEWS

NEW 2013

New Panasonic heating and cooling ranges more efficient, more green!



Panasonic proves it!

In all line ups, Panasonic have an efficient answer and the best seasonal efficiency! Not only are our products efficient but also:

- great for planning with the new VRF designer with Autocad reader
- great for installation with easy access to all parameters from central command
- great for communicating with BMS with a large range of interfaces
- great for maintenance with remote access capabilities

And helping you to control and reduce the CO₂ emissions of your building.

New ECOi excellent energy saving 3-Pipe

The best efficiency on the market. Achieving a COP of **4.77** at full load, there is no doubt Panasonic is reducing environmental impact! PAGE 16



New PACi Elite and Standard

Two line ups, but always providing the best seasonal efficiency in this category. PAGE 12



New Heatcharge air conditioning

Heating power and efficiency even at -25 °C

Panasonic innovation takes air conditioning heating to a new level. With the development of revolutionary Heatcharge technology, heat that was previously released into the atmosphere is now stored and used for heating. PAGE 8



New ECO G High Power

1% this is what the new ECO G High Power is consuming versus your Electrical VRF. Start saving now!

Ideal for locations with low electricity grid, for Chiller, Ventilation and Air conditioning application. PAGE 18



New Aquarea Heat Pump with A class pump

The best option for low consumption houses and for retrofit! PAGE 4



NEW



Panasonic – leading the way in Heating & Cooling

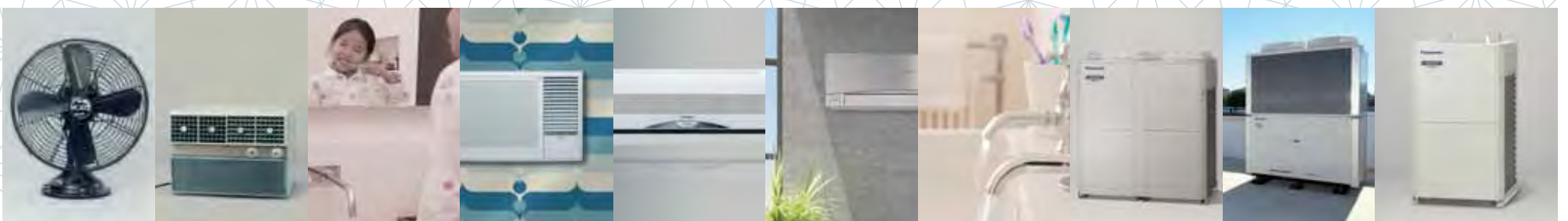
With more than 30 years of experience, selling to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the heating and cooling sector.

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.

History of Air Conditioning Group

Panasonic starts with a desire to create things of value. As hard work and dedication results in one innovative product after another, the fledgling company takes its first steps towards becoming the electronics giant of today.



- | | | | | | | | | | |
|---|--|---|---|--|--|---|---|--|--|
| <p>1936
First electric Fan with Automatic Oscillation (36 cm table top model).</p> | <p>1958
First room air conditioner launched for domestic installation. Prior to this date, air conditioners were large and only for commercial use. Panasonic developed the first compact air conditioner for windows; it was lightweight and easy to install, improving the quality of life in Japanese homes. 1,100 units were sold in Japan in the first year, and just two years later, in 1960, this figure rose to 230,000.</p> | <p>1973
Panasonic launches the first highly efficient air-to-water heat pump in Japan.</p> | <p>1975
Panasonic becomes the first Japanese air conditioner manufacturer in Europe.</p> | <p>2002
The Ion and Oxygen Generator — two of the most important contributions to air conditioning systems.</p> | <p>2008
Etherea new concept of air conditioning systems: high efficiency and high performances with a great design. Etherea also includes a very innovative air quality sensor and air purifier in order to enjoy healthy air at home at all times.</p> | <p>2010
New Aquarea. Panasonic has created Aquarea, an innovative new, low-energy system, designed to help you enjoy ideal temperatures and hot water in your home, even with extreme outdoor temperatures. Aquarea cools or heats to ensure maximum comfort. Aquarea is far cleaner, safer, cheaper and environmentally friendly than alternatives using gas, oil and other electrical systems.</p> | <p>2011
New Eco i VRF solution. The new Panasonic VRF solution for big buildings is the most efficient in the industry in more than 74% of combinations. ECO i satisfies the most demanding standards required by design offices, architects, owners and installers.</p> | <p>2012
New ECO G units. Panasonic's gas-driven VRF systems are ideal for projects where power restrictions apply. In 2012, Panasonic extends the Gas Heat Pump range with a new ECO G line-up, new ECO G G Power (electricity production) and the new Chiller Units.</p> | <p>2013
New ECOi 3-pipes. The best efficiency for your building. Our New 6 Series 3-pipes is achieving a COP of 4.77 at full load, and even more when recovering heat from the building. There is no doubt, Panasonic is reducing environmental impact!</p> |
|---|--|---|---|--|--|---|---|--|--|

Panasonic air conditioning products you can trust

The desire to advance has made Panasonic the international leader in air conditioning. Our industrial capabilities and firm commitment to the environment enable us to open new avenues of research and to develop innovative technologies which can enhance today's way of life.

The domestic range, commercial range and VRF industrial range, together with the new Aquarea system, are adaptable to the construction needs and environmental demands of our time. At Panasonic we know what a great responsibility it is to install heating and cooling systems. Because offering you the best solutions in heating and cooling matters.



NEW

AQUAREA

Page 4



NEW

heatcharge

Page 8



NEW

PACi

Page 12



NEW

VRF SYSTEMS

Page 16

NEW

AQUAREA

Aquarea's new air-to-water heat pump for residential applications

From 3 kW to 16 kW. The biggest line-up in the market to meet all your demands! Cost-effective and environmentally friendly.



A
class pump

SEASONAL EFFICIENCY

PRODUCT READY FOR THE NEW ErP ECODESIGN REQUIREMENTS LOT 1



Panasonic's new Aquarea air to water system provides maximum efficiency and capacity even at -20 °C

Panasonic's new Aquarea system, based on high-efficiency heat pump technology, not only heats your home and hot water, but also cools your home in summer with incredible operating performance. This creates perfect comfort whatever the weather conditions, even with outside temperatures as low as -20 °C.

The Aquarea range of heat pumps is designed to satisfy the new demand for low consumption housing, with high efficiency and low running costs.

ENERGY SAVING



High efficiency heating
Inverter+ System. The A Inverter+ system provides energy savings of up to 30% compared to non Inverter models. Both you, and nature, wins!



Environmentally friendly refrigerant
Refrigerant R410A / R407C. R410A / R407C offers optimal performance and involves no environmental cost since it does not harm the ozone layer.



Down to -20 °C in heating mode
Up to -20 °C in Heating Mode. The Heat Pumps works in heat pump mode with an outdoor temperature as low as -20 °C.



Boiler connection
Renovation. Our Aquarea heat pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.



Solar panels connection
Solar Kit. For even greater efficiency, our Aquarea heat pumps can be connected to photovoltaic solar panels with an optional kit.



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



Easy control by BMS
Connectivity. The communication port is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.



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



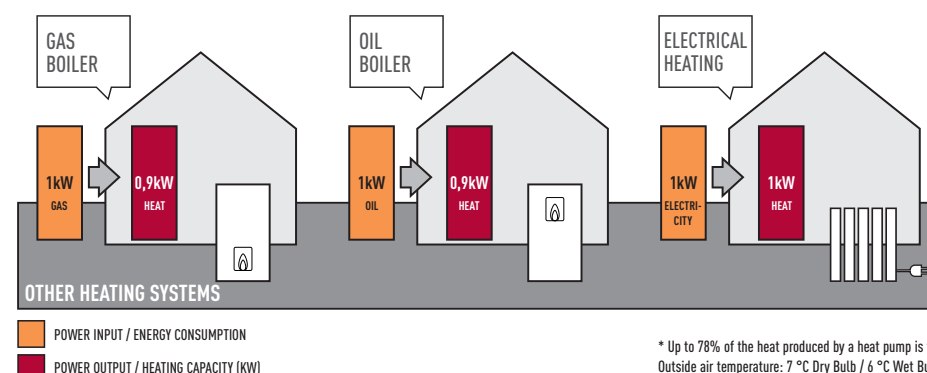
5 year compressor warranty
5 Years Warranty. We guarantee the compressors in the entire range for five years.

Up to 78% energy savings*

Panasonic's Aquarea heat pump provides savings of up to 78% on heating expenses compared with electrical heaters. For example, the Aquarea 9 kW system has a COP of 4.74. This is 3.74 kW more than a conventional electrical heating system which has a maximum COP of 1. This is equivalent to a 78% saving.

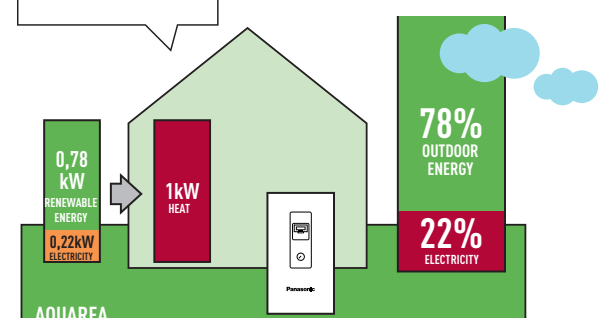
Consumption can be further reduced by connecting photovoltaic solar panels to the Aquarea system.

* COP: energy efficiency in heating mode. COP of 4.74 for the 9kW WH-MDF09C9E8 or WH-UD09CE8 models at an outside temperature of 7 °C, and for water, input and output temperatures of 30 °C and 35 °C (according to EN 14511-2) We note that ADEME (French environmental and energy management agency) encourages consumers to choose heating and cooling systems that use heat pump systems.



UP TO
78%
energy savings

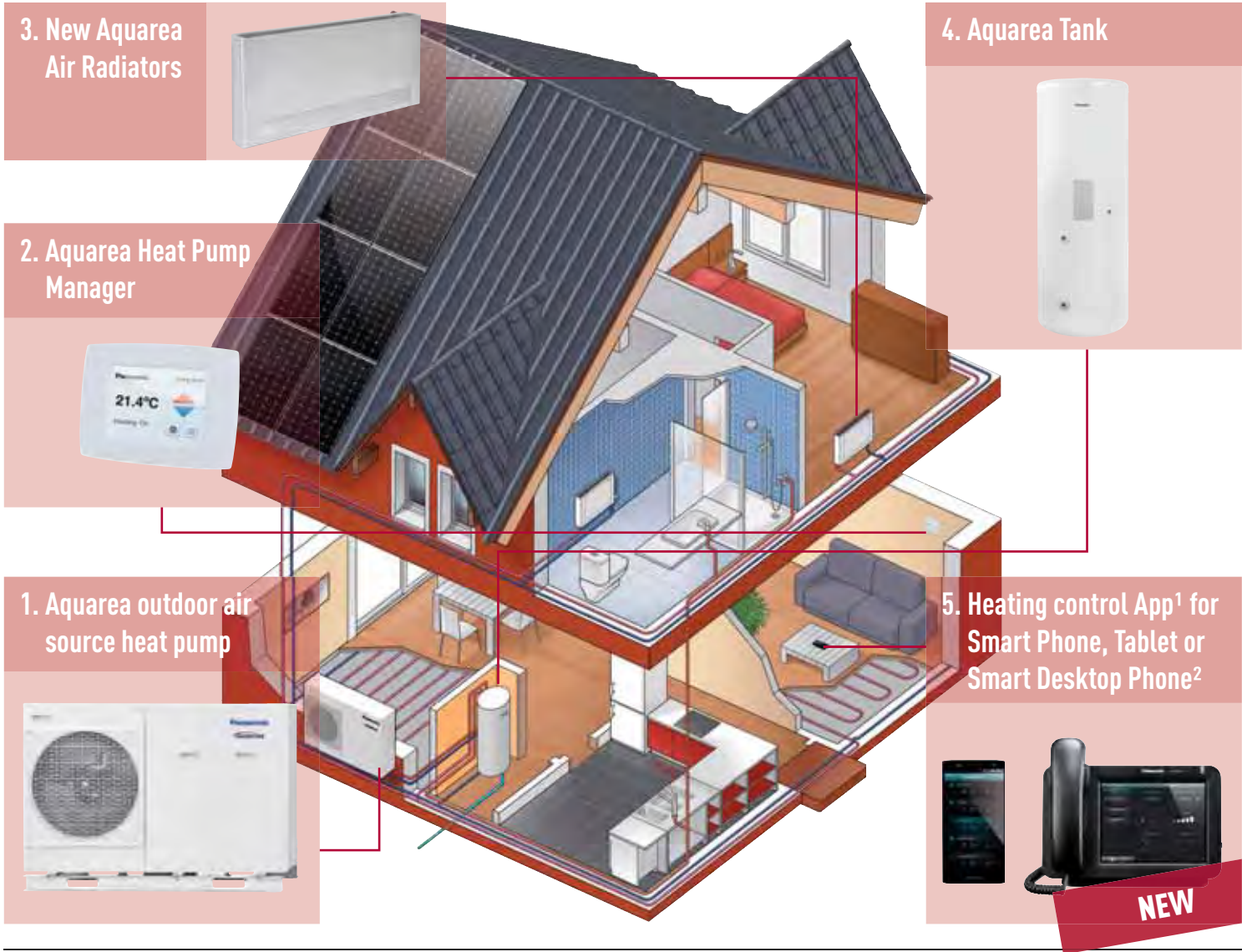
AQUAREA
UP TO 78%
ENERGY SAVINGS*



* Up to 78% of the heat produced by a heat pump is free, since it comes from the outdoor air. 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

"Green" high-efficient heating with Panasonic's new air-to-water heat pump systems

At the forefront of energy innovation, Aquarea is resolutely positioned as a “green” heating and air-conditioning system.



1. Aquarea outdoor air source heat pumps
Panasonic has developed an extensive range of air-to-water heat pumps designed to efficiently convert free air into sustainable heating and hot water. Fitted externally to your home and designed to operate in all year round weather conditions (-20 °C), it's the smart alternative to oil, LPG and electric heating systems.

2. Aquarea Heat Pump Manager
This new generation of smart controllers for eco-efficient heating, features our versatile stand-alone controller not only for our heat pump systems, but also your gas, oil boiler and all other devices installed on your heating system.

3. New Aquarea Air Radiators
The extremely slim Aquarea Air radiator is a highly efficient climate control solution.

4. Aquarea Tank
Using the latest technology and energy efficient insulation, the indoor tank provides constant hot water for domestic use.

5. Heating control App¹ for Smart Phone, Tablet or Smart Desktop Phone²
The heating control App allows you to control the heating and hot water system via your smart phone, tablet or computer with ease, whether at home or away.

[†] Based upon a floor area of 225 m² at 50 Watts per m² using Panasonic's T-CAP 12 kW output heat pump at SCOP (Seasonal Coefficient of Performance) 3.7, Air temperature -8 °C/Water temperature 55 °C. For more information, contact uk-aircon-tech@eu.panasonic.com.
¹. Optional.
². KX-UT670 Smart Desktop Phone from Panasonic.

NEW

New solutions

A
class pump

5.00¹ COP
high efficiency

AQUAREA
HIGH PERFORMANCE

Aquarea High Performance for low consumption houses. From 3 to 16 kW
For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution. This solution can work as a stand-alone unit or can be combined with an existing gas- or oil-fired heating system depending on requirements. This new solution is ideal for low consumption homes.

¹ Only for the 3 kW.

A
class pump

100%
capacity
at -15 °C

AQUAREA T-CAP

Aquarea T-CAP. From 9 to 12 kW
If the most important aspect is to maintain nominal heating capacities even at temperatures as low as -7 °C or -15 °C, select the Aquarea T-CAP. This ensures that there is always enough capacity to heat the house without help from an external boiler – even at extremely low temperatures. Aquarea T-CAP always has high efficiency and high heating capacity even at extremely low temperatures. With Aquarea T-CAP, you can always enjoy high savings.

Output water
65 °C

HIGH TEMP
HEAT PUMP

Aquarea HT. From 9 to 12 kW
For a house with traditional high-temperature radiators (such as cast iron radiators), the Aquarea HT Solution is the most appropriate as the Aquarea HT provides output water temperatures of 65 °C even at outdoor temperatures as low as -20 °C. Aquarea HT is able to deliver hot water to 65 °C with the Heat Pump alone.



Heat pump + Photovoltaic solar panels: the best solution for high savings

Panasonic Aquarea heat pumps can be easily integrated into a system with photovoltaic solar panels in order to make maximum of savings and to reduce CO₂ emissions.

HIT Photovoltaic solar panel from Panasonic

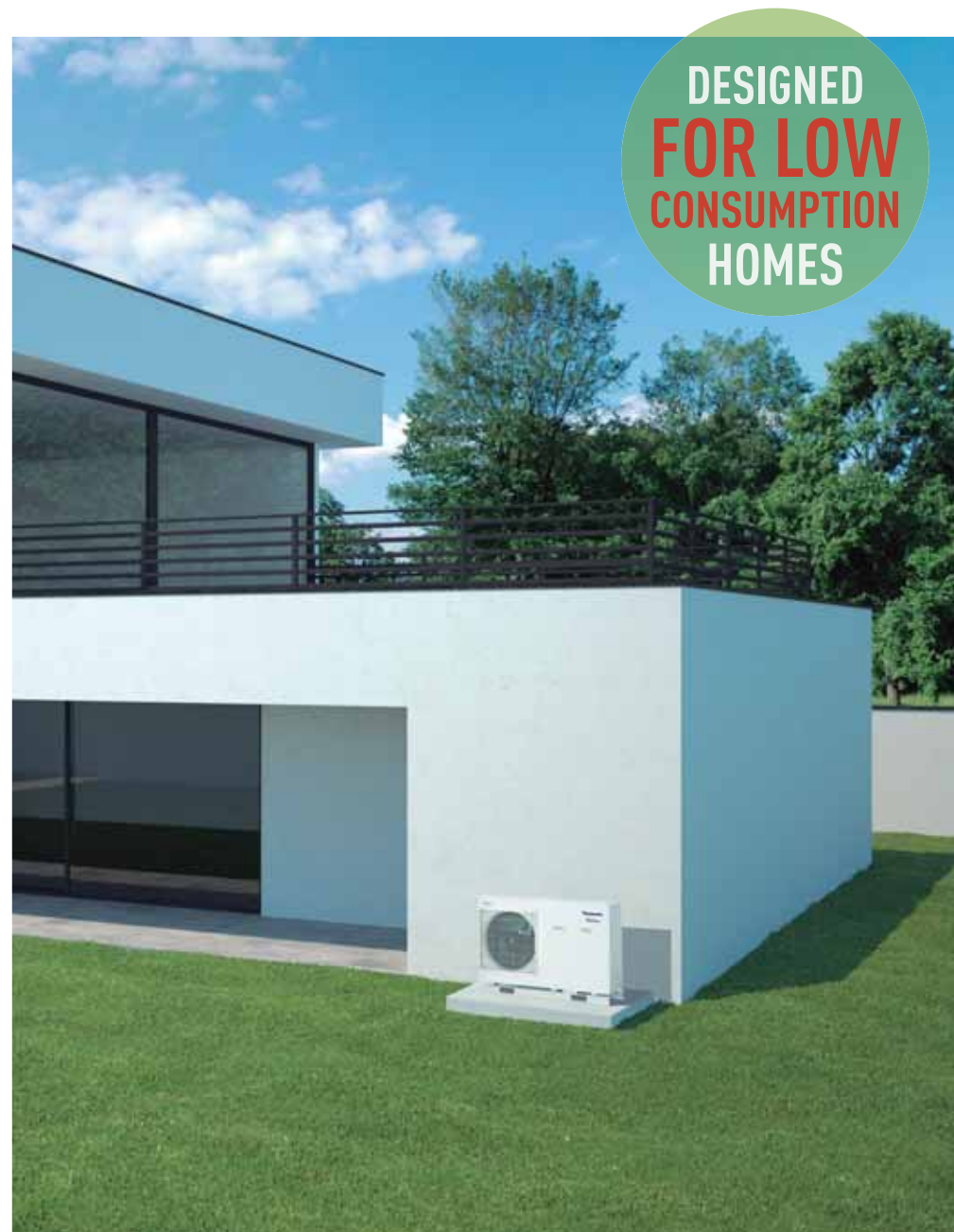
NEW

AQUAREA

New Aquarea 3 and 5 kW Bi-Bloc and 6 and 9 kW Mono-Bloc air to water heat pump

Panasonic has designed the new Aquarea Bi-Bloc and Mono-Bloc heat pumps for homes which have high performance requirements.

Whatever the weather, Aquarea will always give you maximum efficiency, even at -25 °C! The New Aquarea is easy to install on new or existing installations, in all types of properties.



Maximum savings, Maximum efficiency, Minimum CO₂ emissions, Minimum of space

Technical benefits

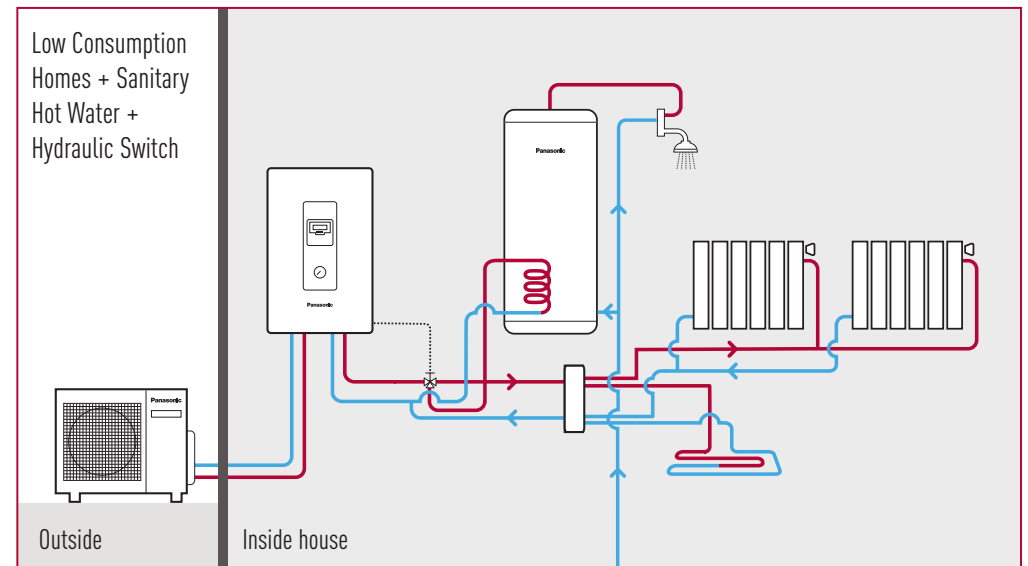
- Super efficient: COP of 5 in the 3.2 kW!
- A Class Pump
- Special software for low consumption homes with minimum output temperature: 20 °C
- Works down to -20 °C
- Automatic Air purge valve

Technical elements

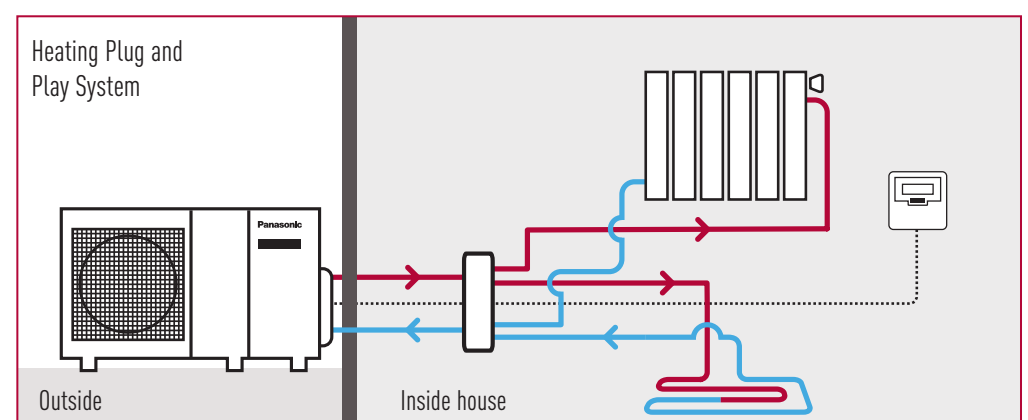
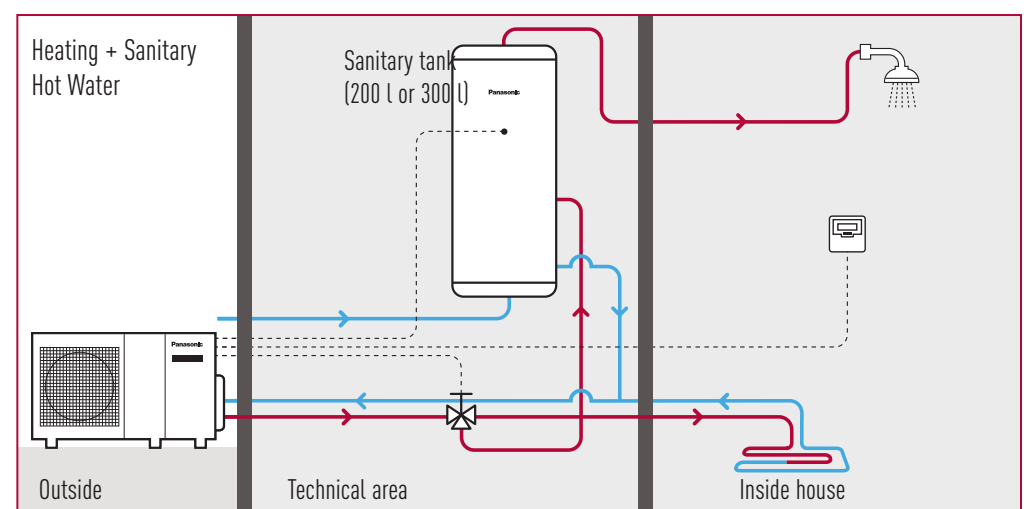
- Mono-Bloc unit includes:
- Heat exchanger
 - Variable speed pump
 - 6 litre expansion vessel
 - Safety valve
 - Pressure gauge
 - 3 kW electrical heater



Bi-Bloc application Examples

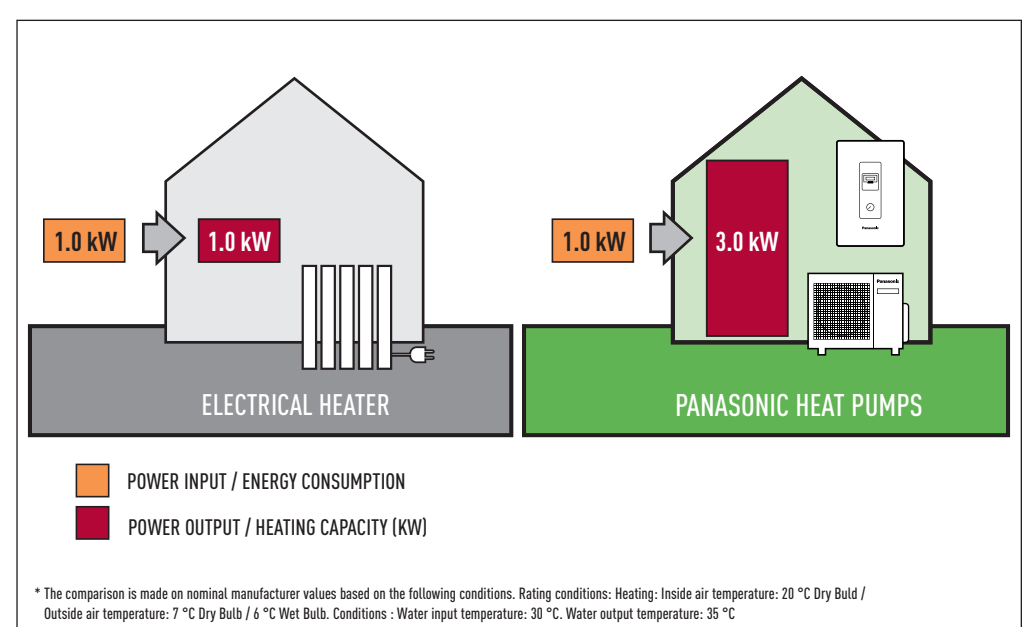


Mono-Bloc application Examples



COP Comparison (3 kW Bi-Bloc)

(Electrical Heater versus Panasonic Heat Pumps)

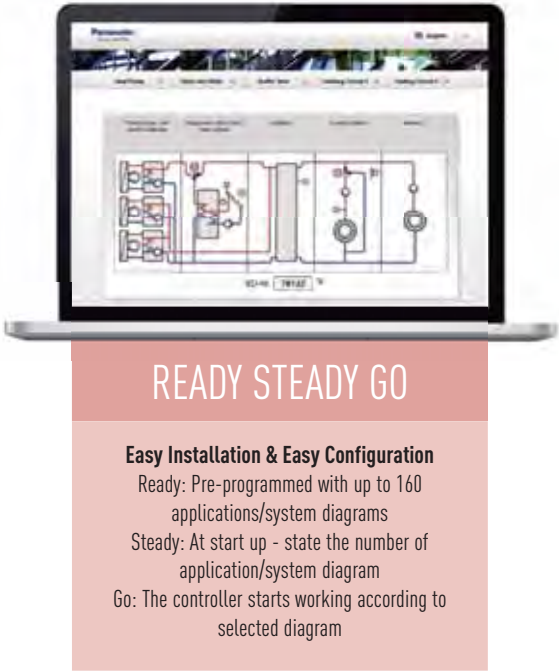




The next generation of Aquarea Manager

This new generation of smart controllers for eco-efficient heating features our versatile stand-alone controller for heating and domestic hot water.

Panasonic offers:
Trends. Statistics. Consumption Energy Management-Optimization. Alarm. Handling + Maintenance. Complete documentation etc.



- Technical Specification**
- 2 x Mixed Heating Circuits
 - Floor screed dry program
 - Cascade/bivalent controller
 - Automatic switch from heating to cooling mode
 - Photovoltaic / Smart Grid contact
 - Night shift: - Internal Energy Manager. - Trend
 - Solar collector control
 - Domestic hot water priority
 - Web-control
 - Up to 10 languages
 - Ready, Steady, Go!: With up to 155 preconfigured system diagrams.
 - Ready to operate in less than 3 minutes
 - Easy to startup – easy to operate
 - 230 V power supply
 - 7 output relays
 - 2 x 0.10 V output
 - 8 Sensor inputs (PT1000)
 - Built-in backlit text display
 - USB interface (upload, service, remote control, trend)
 - RS485 interface (com. with additional heat pump)
 - RS485 interface (for external display)
 - External touch display available
 - Large Amount of External remote control units

Easy mounting
Simple mounting without screws in the cabinet/door or on DIN-rail. Also possible to mount directly on to the wall.

Aquarea Line-Up!



SEASONAL EFFICIENCY
PRODUCT READY FOR THE NEW E+P ECODESIGN REQUIREMENTS LOT 1

Line up			3 kW	5 kW	6 kW	7 kW	9 kW	12 kW	14 kW	16 kW
Aquarea High Performance for well insulated houses	Bi-Bloc	Single Phase	Heating only	WH-SDF03E3E5 WH-UD03EE5 (F1)	WH-SDF05E3E5 WH-UD05EE5 (F1)	WH-SDF07C3E5 WH-UD07CE5-A (F3)	WH-SDF09C3E5 WH-UD09CE5-A (F3)	WH-SDF12C6E5 WH-UD12CE5-A (F4)	WH-SDF14C6E5 WH-UD14CE5-A (F4)	WH-SDF16C6E5 WH-UD16CE5-A (F4)
			Heating and cooling	WH-SDC03E3E5 WH-UD03EE5 (F1)	WH-SDC05E3E5 WH-UD05EE5 (F1)		WH-SDC09C3E5 WH-UD09CE5-A (F3)	WH-SDC12C6E5 WH-UD12CE5-A (F4)	WH-SDC14C6E5 WH-UD14CE5-A (F4)	WH-SDC16C6E5 WH-UD16CE5-A (F4)
		Three Phase	Heating only				WH-SDF09C3E8 WH-UD09CE8 (F4)	WH-SDF12C9E8 WH-UD12CE8 (F4)	WH-SDF14C9E8 WH-UD14CE8 (F4)	WH-SDF16C9E8 WH-UD16CE8 (F4)
			Heating and cooling				WH-SDC09C3E8 WH-UD09CE8 (F4)	WH-SDC12C9E8 WH-UD12CE8 (F4)	WH-SDC14C9E8 WH-UD14CE8 (F4)	WH-SDC16C9E8 WH-UD16CE8 (F4)
	Mono-Bloc	Single Phase	Heating only			WH-MDF06E3E5 (F2)	WH-MDF09E3E5 (F2)	WH-MDF12C6E5 (F5)	WH-MDF14C6E5 (F5)	WH-MDF16C6E5 (F5)
			Heating and cooling			WH-MDC06E3E5 (F2)	WH-MDC09E3E5¹ (F2)	WH-MDC12C6E5 (F5)	WH-MDC14C6E5 (F5)	WH-MDC16C6E5 (F5)
Aquarea T-CAP for cold areas	Bi-Bloc	Single Phase	Heating only				WH-SXF09D3E5 WH-UX09DE5 (F4)	WH-SXF12D6E5 WH-UX12DE5 (F4)		
			Heating and cooling				WH-SXC09D3E5 WH-UX09DE5 (F4)	WH-SXC12D6E5 WH-UX12DE5 (F4)		
		Three Phase	Heating only				WH-SXF09D3E8 WH-UX09DE8 (F4)	WH-SXF12D9E8 WH-UX12DE8 (F4)		
			Heating and cooling				WH-SXC09D3E8 WH-UX09DE8 (F4)	WH-SXC12D9E8 WH-UX12DE8 (F4)		
	Mono-Bloc	Single Phase	Heating only				WH-MXF09D3E5 (F5)	WH-MXF12D6E5 (F5)		
			Heating and cooling				WH-MXC09D3E5 (F5)	WH-MXC12D6E5 (F5)		
		Three Phase	Heating only				WH-MXF09D3E8 (F5)	WH-MXF12D9E8 (F5)		
			Heating and cooling				WH-MXC09D3E8 (F5)	WH-MXC12D9E8 (F5)		
Aquarea HT for retrofit	Bi-Bloc	Single Phase	Heating only				WH-SHF09D3E5 WH-UH09DE5 (F4)	WH-SHF12D6E5 WH-UH12DE5 (F4)		
		Three Phase	Heating only				WH-SHF09D3E8 WH-UH09DE8 (F4)	WH-SHF12D9E8 WH-UH12DE8 (F4)		
	Mono-Bloc	Single Phase	Heating only				WH-MHF09D3E5 (F5)	WH-MHF12D6E5 (F5)		
		Three Phase	Heating only				WH-MHF09D3E8 (F5)	WH-MHF12D9E8 (F5)		

Low connectivity : control of 3 way valve, tank heater On/Off signal, tank thermostat signal reception, On/Off from external control, weekly timer. High connectivity : Low connectivity + solar panels connection, room thermostat connection.

Tanks

Panasonic has developed unique, high efficiency water tanks with a large exchange surface and high levels of insulation to minimise energy losses. For example, the HRS200 tank is suitable for installation in non-heated areas.

With Panasonic, you get more savings and more comfort.

1. Panasonic's term of warranty is based on the warranty conditions provided by the tank supplier being met. Please ensure the maintenance programme is carried out as instructed in the tank manufacturer's manual.
All the tank Kits include additional components to comply with the G3 building regulation including 3-way valve, 18 l expansion vessel and sensor cable.
The tanks HRS will be available from May 2013.

Tanks		Standard Sanitary		Super High Efficiency	
Model		KIT-TD20E3E5-G3	KIT-TD30E3E5-G3	KIT-HRS200-G3¹	KIT-HRS300-G3¹
Water volume	L	200	300	200	300
Max. water temperature	°C	75	75	75	75
Dimension	Height / Diameter	mm 1,150 / 580	mm 1,150 / 580	mm 1,642 / 600	mm 1,435 / 680
Weight	kg	49	65	135	170
Electric heater	kW	3	3	3	3
Power supply	V	230	230	230	230
Material inside tank		Stainless steel	Stainless steel	Enamelled	Enamelled
Exchange surface	m²	1.4	1.8	2.3	3.5
Energy loss at 65 °C (insulated tested under EN12897)	kWh/24h	1.9	2.3		2.2
3 Way valve included		Yes	Yes	Yes	Yes
20 m temperature sensor cable included		Yes	Yes	Yes	Yes
Heat up time	Valuation	★★★	★★★	★★★★	★★★★
Energy losses	Valuation	★★★★	★★★★	★★★★	★★★★
Efficiency of the tank	Valuation	★★★	★★★	★★★★	★★★★
Warranty		10 years		7 years	7 years
Maintenance required		No	No	Yearly	Yearly

NEW

heatcharge

Panasonic develops a new 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.

NEW



Best New ErP Labelling

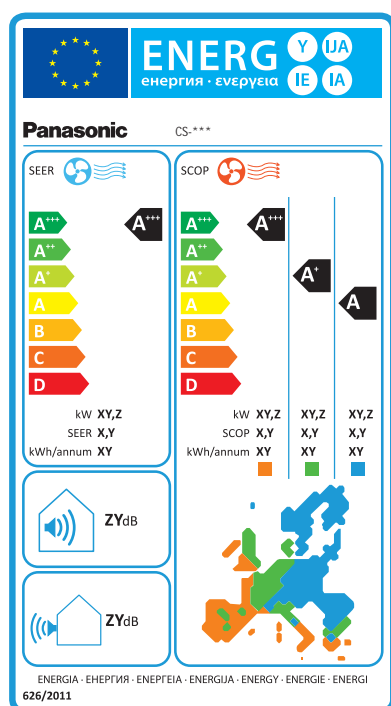
EU Member States have set themselves individual measures to achieve these targets, but new legislation has also been introduced that applies to countries across the region. One of these, the Energy Related Products Directive (ErP) has significant implications for the Heat Pump industry. Coming into effect on 1 January 2013, the new directive lays out some new minimum energy-efficiency requirements for air-conditioning systems and products. These measures are great news for the consumer who will get even more value for every euro spent on new Panasonic energy efficiency products!

INTELLIGENT
MICROPROCESSOR

DC INVERTER

Economical, environment-friendly operation high SCOP (Seasonal Coefficient of Performance)

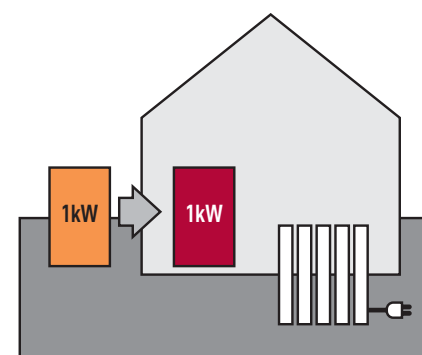
Original Panasonic Inverter technology and a high performance compressor provide top-class operating efficiency. This lets you enjoy lower electricity bills while contributing to environmental protection.



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!

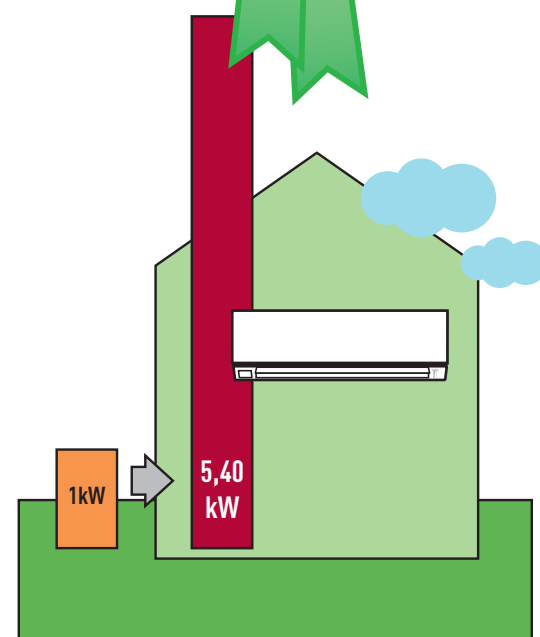
Heatcharge is a unique, innovative Panasonic technology that stores this waste heat in the compressor and effectively uses it as heating energy. This lets you enjoy a new level of air conditioner heating power and efficiency.



* SCOP On heating mode for VE9-NKE compared with electrical heaters.

SEASONAL EFFICIENCY

PRODUCT FOLLOWS THE NEW ErP ECODESIGN REQUIREMENTS



The new Heatcharge heating power and efficiency

- Energy Charge System. Heat storage unit which features Non-Stop heating and fast heating function
- Maximum efficiency and comfort with Econavi sunlight detection
- Nanoe-G air purifying system
- More powerful airflow to quickly reach the desired temperature



NEW



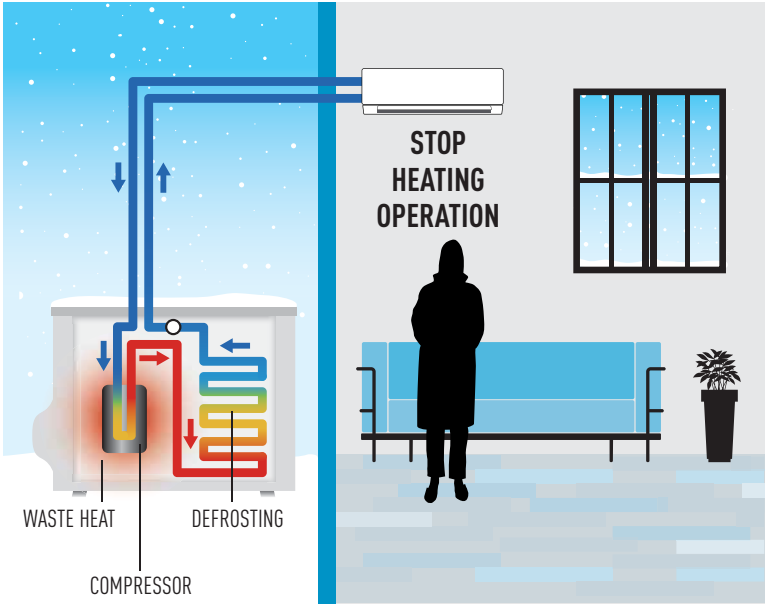
Constant heating
HEATCHARGE

heatcharge

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 experienced when heating is temporarily stopped during the defrost cycle.



CONVENTIONAL THE ROOM GRADUALLY BECOMES COLD

DEFROST OPERATION

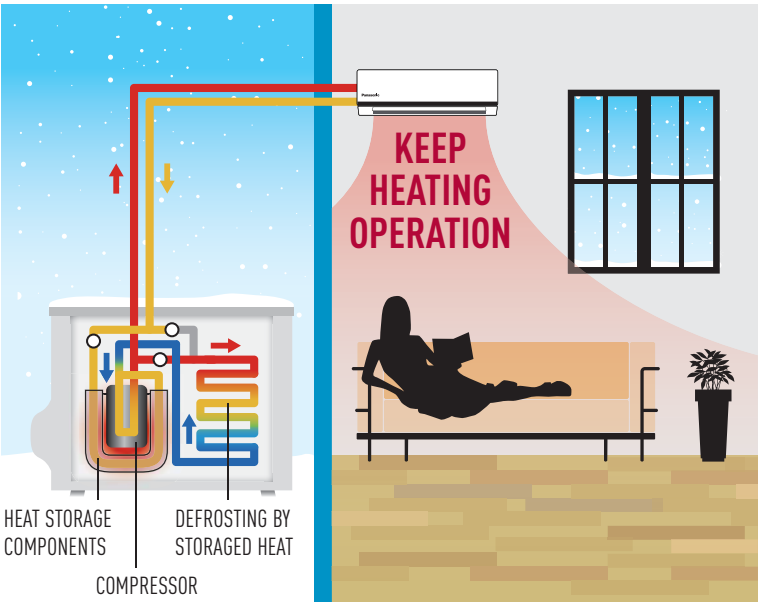
FALL IN ROOM TEMPERATURE

About 11 to 15 min.

About 5 to 6 °C



You can check the charge level with the remote control Press the Information button and the level is displayed in five stages (from 0 to 4)



HEATCHARGE THE ROOM IS THOROUGHLY WARMED

DEFROST OPERATION

FALL IN ROOM TEMPERATURE

About 5 to 6 min.

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.

NEW

Sunlight detection

Econavi detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It can reduce energy consumption by adjusting cooling requirements under less sunny conditions. Econavi automatically adjusts cooling power to save energy efficiently, whilst still providing uninterrupted cooling comfort and convenience.

INTELLIGENT ECO SENSORS

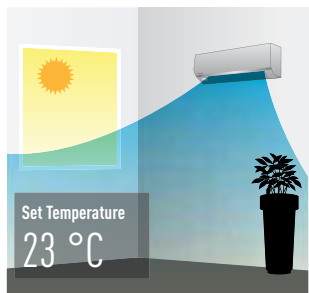
ECONAVI

Sunlight
detection

ECONAVI

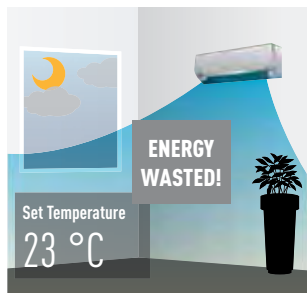
New Sunlight Detection (on Heating Mode)

Econavi detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces the waste of heating under more sunlight conditions. When weather changes from sunny to cloudy/night, Econavi detects a reduction in sunlight intensity and determines more heating power is required.



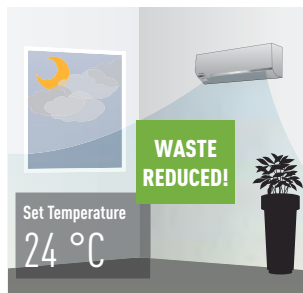
CLOUDY

Econavi is switched on when it is Cloudy/Night.



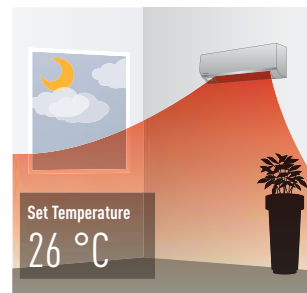
DETECT

Econavi detects less heating power is required.



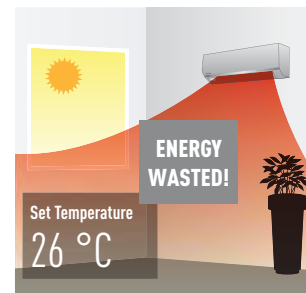
REDUCE WASTE

Reduces heating power by an amount equivalent to decreasing the set temperature by 1 °C.



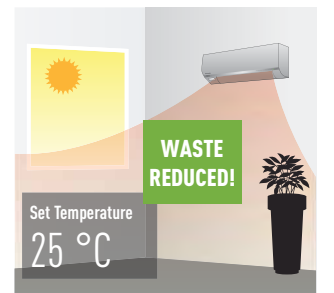
SUNNY

Econavi is switched on when it is Sunny.



DETECT

Econavi detects less cooling power is required.



REDUCE WASTE

Reduces cooling power by an amount equivalent to increasing the set temperature by 1 °C.

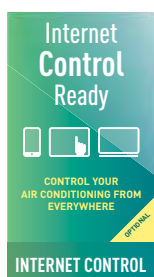
New Free Multi Range: up to 5 indoor units with a single outdoor unit

From 1.6 to 7.1 kW indoor units capacity.

Panasonic has developed a new wall mounted indoor unit for Multi applications*.

This new 1.6 kW wall mounted indoor units is suitable for small rooms or well insulated places, in domestic houses or office buildings.

*Compatible with the outdoor units: CU-2E15PBE / CU-2E18PBE / CU-3E18PBE / CU-4E23PBE / CU-4E27PBE



NEW
1.6 kW
INDOOR UNIT



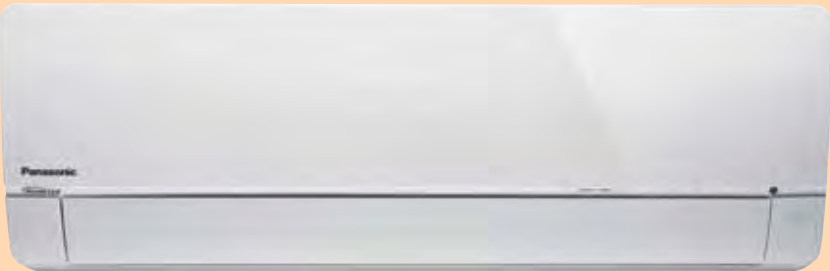
24 hours a day, 7 days a week! PKEA never stops!



Down to
-15 °C in
cooling mode
OUTDOOR
TEMPERATURE

Complete line-up with high efficiency even at -15 °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.



Wall Mounted Professional Inverter -15 °C

Protect your computer rooms

Especially designed for professional applications such as computer rooms.

- Cooling from as low as ambient -15 °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)

* Additional optional interfaces are needed. Intesis home version is available.

Internet
Control
Ready

CONTROL YOUR
AIR CONDITIONING FROM
EVERYWHERE

INTERNET CONTROL

A class
energy saving

INVERTER

Down to
-15 °C in
heating mode

OUTDOOR
TEMPERATURE

Down to
-15 °C in
cooling mode

OUTDOOR
TEMPERATURE

Easy
control
by BMS

CONNECTIVITY

2 Interface options to manage server room operation

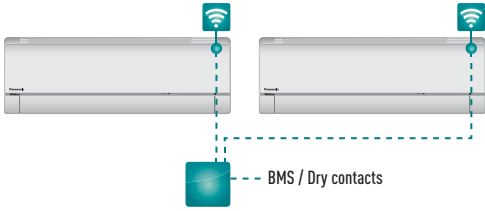
- **IntesisHome**, Advance package: PA-AC-WIFI-1 + Advance function. 1 interface PA-AC-WIFI-1 for indoor unit is needed. This interface must be connected to the local Wi-Fi network. Server room functionalities of the PA-AC-WIFI-1 + Advance function:
 - On/Off, temperature setting management
 - Backup management
 - Alternative running
 - Email in case of failure
 - Room temperature display on the online IntesisHome application
 - Energy consumption display
 - Online access of all functionalities
 - Ipad/Iphone/Android/Web application



2 Interface options to manage server room operation: PA-AC-WIFI-1*

*Available from May 2013

- **PAW-SERVER-PKEA** server room interface with dry contacts for easy interconnection with BMS systems. 1 interface PAW-SERVER-PKEA can be connected to 2 PKEA indoor units. Server room functionalities with the PAW-SERVER-PKEA:
 - On/Off management by dry contact
 - Temperature set-up (easy setup on the interface without computer)
 - Backup management (easy setup on the interface without computer)
 - Alternative running (easy setup on the interface without computer)
 - Dry contact in case of failure (easy setup on the interface without computer)



Optional accessory: PAW-SERVER-PKEA*

Wide operating temperature range (from -15 °C up to 46 °C)

Panasonic Air Conditioners Let you enjoy stable and comfortable cooling or heating even with extreme outside temperatures. Outdoor units operate from -15 °C to 24 °C. Cooling is possible even when the outside temperature is from 5 °C up to 46 °C. Add to this exceptional durability and reliability and you are looking at worry-free operation for comfort throughout the year.



NEW

PACi

PACi Newly designed!

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 and thus reduce energy costs.



A class
energy saving

INVERTER+



New PACi Elite and PACi Standard: Two Ranges to cover all your projects

Energy saving concept. The use of an energy-saving design for the construction of fans, fan motors, compressors and heat exchangers, has resulted in a high COP value, which ranks as one of the best in class in the industry. In addition, use of highly efficient R410A refrigerant reduces CO₂ emissions and lowers operating costs.

SEASONAL EFFICIENCY (SCOP)

PRODUCT FOLLOWS THE NEW
ECODESIGN REQUIREMENTS



PACi Standard, Improved energy saving

- Good balance, system cost vs energy efficiency
- Top class SEER/SCOP (Standard Inverter category)
SEER: A++ / SCOP: A+ at 10.0 kW (in Cassette 90x90)
- Interchangeable controller with ECOi range
- 1 compact, outdoor fan (up to 12.5 kW)
- 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 size and light weight make it ideal for installations with limited space including small commercial and residential applications.

INDOOR UNITS PACi STANDARD AND ELITE	3.6 kW	4.6 kW	5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW
WALL PACi // INVERTER+										
4-WAY 60x60 CASSETTE PACi // INVERTER+ (FOR TWIN COMBINATIONS)										
4 WAY 90x90 CASSETTE PACi // INVERTER+										
LOW STATIC PRESSURE HIDE AWAY PACi // INVERTER+										
HIGH STATIC PRESSURE HIDE AWAY PACi // INVERTER+										
CEILING PACi // INVERTER+										
HIGH STATIC PRESSURE HIDE AWAY 20.0-25.0 kW PACi // INVERTER+										
AHU Kit										
AIR CURTAIN JET-FLOW ¹										
AIR CURTAIN STANDARD ¹										

* The indoor units from 3.6 to 5.0 kW are only available only for Twin, Triple and Quadriple combinations. 1 Available from April 2013.

OUTDOOR UNITS PACi STANDARD AND ELITE			5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW
PACi STANDARD										
PACi ELITE										

¹ Single Phase ^{II} Three Phase

NEW

PACi

Air handling unit kit 5-25 kW for PACi

New AHU kit connects PACi outdoor units to Air Handling Units system.

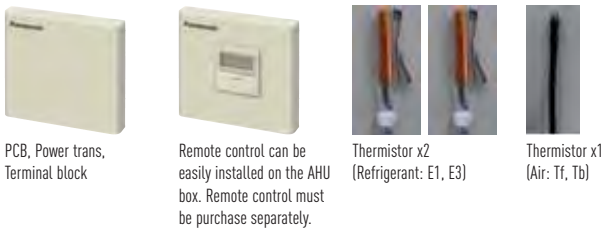
NEW



Panasonic's AHU kit provides impressive connectivity options in order to ensure easy integration.

They can be installed in hotels, offices, server rooms or all large buildings where air quality control, such as humidity control and fresh air, is needed.

AHU Connection Kit



Panasonic AHU Kit, 5-25 kW connected to PACi outdoor unit

PCB, Transformer, Thermistor x 3 pcs, Terminal Base and Electrical Component Box.

Optional parts: Following functions are available by using different type of control accessories:

CZ-RTC2 Wired 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 DC12 V)

PAW-OCT, DC12 V outlet. OPTION terminal

- Output signal= Cooling/Heating/Fan status
- Defrost
- Thermostat-ON

CZ-CAPBC2 Mini seri-para I/O unit

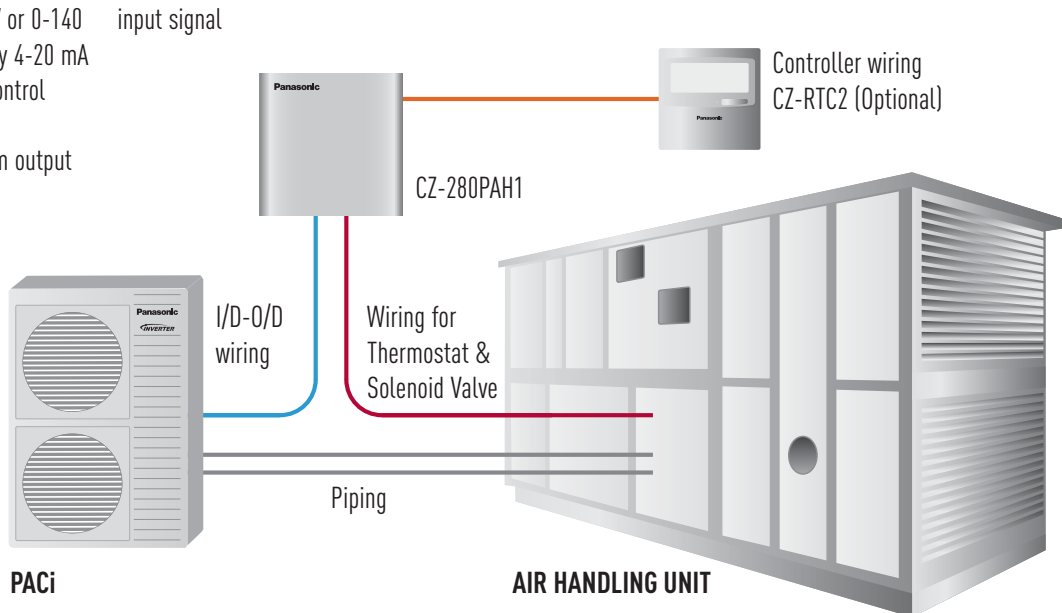
- Temperature setting by 0-10 V or 0-140 input signal
- Room (inlet air) temp outlet by 4-20 mA
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output

COMBINATION TABLE FOR PACi SINGLE OUTDOOR UNIT

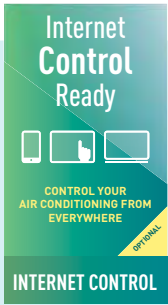
Combination shown in below table is available for PACi single system

Power	Size	PACi Standard	PACi Elite	AHU kit
Single phase	5.0 kW		U-50PE1E5	CZ-280PAH1 (Common use for all outdoor units. Only 1 by 1 connection is allowed.)
	6.0 kW	U-60PEY1E5	U-60PE1E5	
	7.1 kW	U-71PEY1E5	U-71PE1E5	
	10.0 kW	U-100PEY1E5	U-100PE1E5	
	12.5 kW	U-125PEY1E5	U-125PE1E5	
	14.0 kW		U-140PE1E5	
Three phase	7.1 kW		U-71PE1E8	
	10.0 kW	U-100PEY1E8	U-100PE1E8	
	12.5 kW	U-125PEY1E8	U-125PE1E8	
	14.0 kW	U-140PEY1E8	U-140PE1E8	
	20.0 kW		U-200PE1E8	
	25.0 kW		U-250PE1E8	

* Additional notice/instruction for system design, installation work will be defined for PAC-i connection.



Internet Control. Control your heat pump or air conditioning system with your smart device from wherever you are



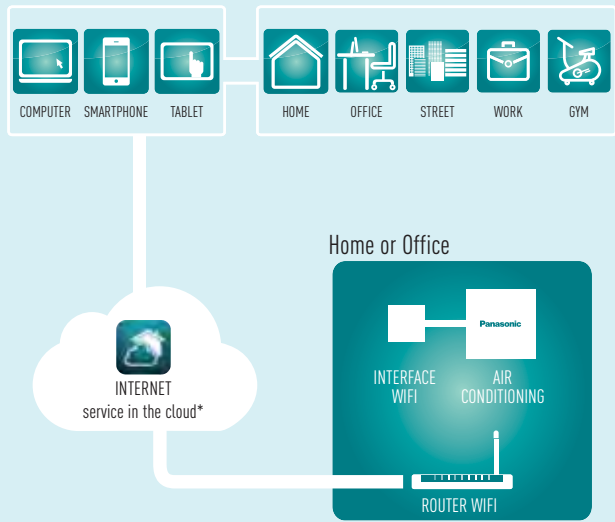
KX-UT670 Smart Desktop Phone from Panasonic.

Control your comfort and efficiency with the lowest energy consumption

Control your air conditioning with the smart internet control device via smartphones, tablet, PC and smart desktop phone via internet

Offering the same functions as if you were at home or the office: start/stop, Mode Operation, Set Temperature, Room Temperature etc as well as the new, advanced functionality provided by Internet Control to achieve the best comfort and efficiency with the lowest energy consumption.

TAKE CONTROL FROM WHEREVER YOU ARE!



* Functionalities depend on the license. The information indicated above is subject to changes and updates.

Control your comfort and efficiency with the lowest energy consumption

What's Internet Control?

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

Simple Installation

Just connect the Internet Control device to the air conditioner or heat pump with the supplied wire and then link it to your WIFI Access point.

Internet Control. Easy to install. Maximum benefit

Internet Control is underlined with the slogan "Your home in the cloud", meaning a simple and easy to handle solution has been considered for every user to manage the device, not requiring any communication or computer skills.

No servers. No adaptors. No wires. Just a small box is needed to be connected and placed close to the air conditioning indoor unit... and your smartphone, tablet or PC.

Start the App from your smartphone device, your tablet or your computer, and enjoy a new experience in comfort. An intuitive and user-friendly application on the screen of your smartphone or PC that lets you manage the air conditioning unit in the same way you do with the remote controller.

Internet Control can be downloaded in Apple's AppStore and Android's PlayStore.



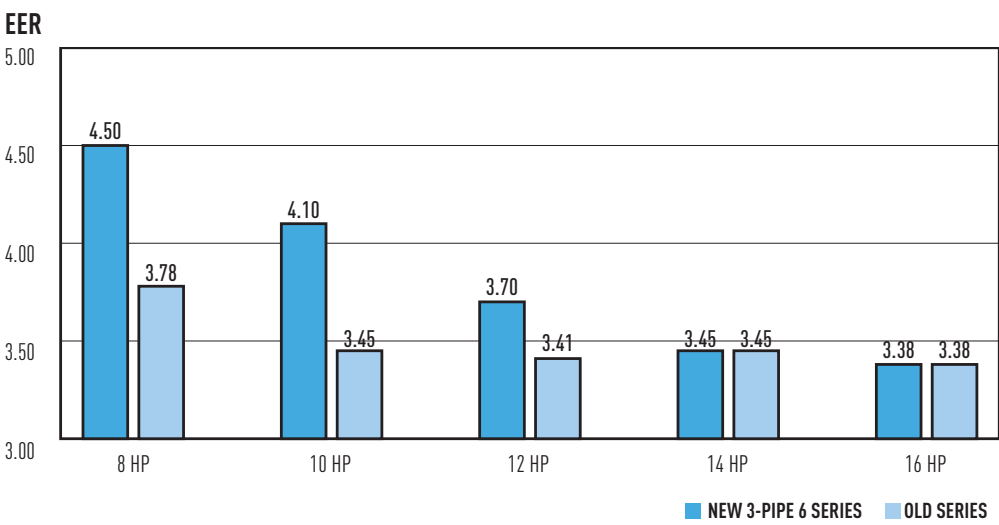
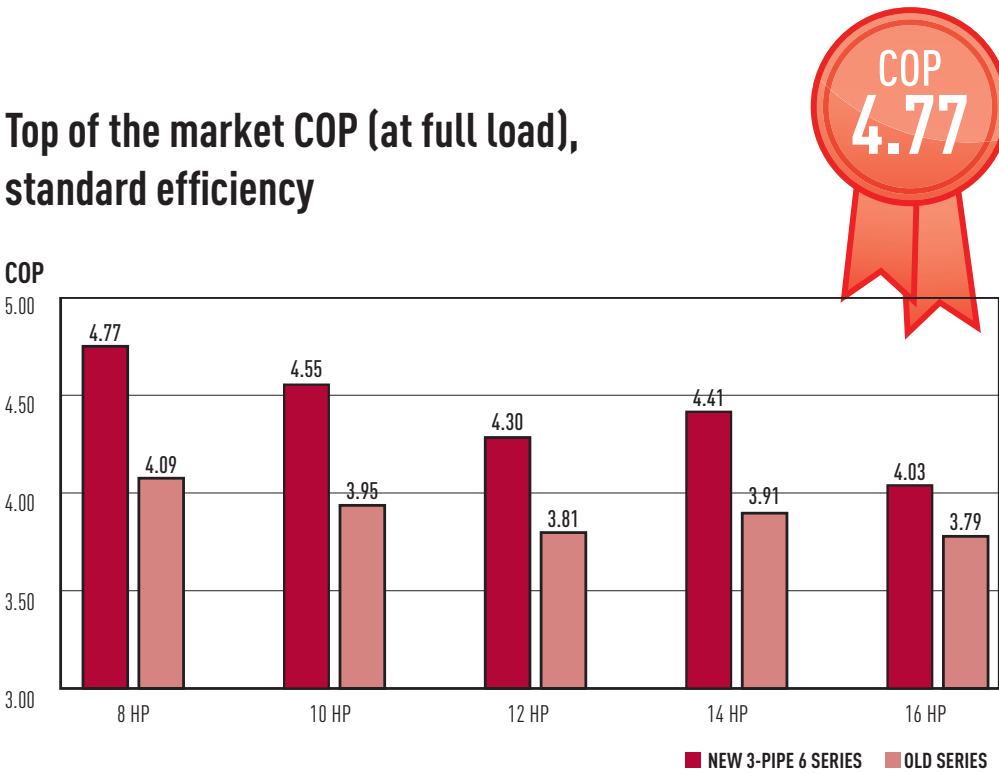
Study Case. Alice, Shop Owner

"I want maximum comfort and the best savings for my shop. And I manage to get these in the easiest and most natural way possible. From my smartphone, something I always carry with me, I can control the temperature of my shop and in this way, as well as maintaining an ideal temperature I also save a small fortune in electricity at the end of the year."

The new Panasonic 3 way 6N Series offers the best to the most demanding customers

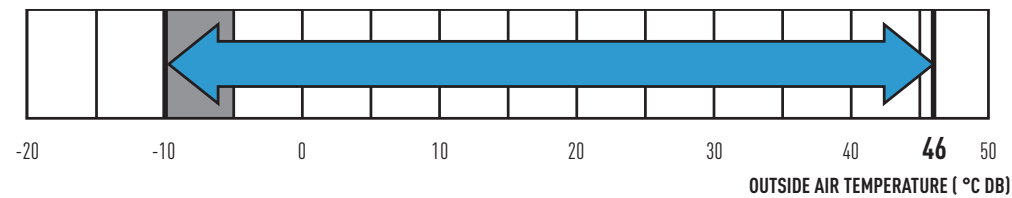
- The new 3-Pipe units have only one chassis size, with a very small footprint (only 0.93 m²)
- 1 body for all sizes: H 1.758 x W 1.000 x D 930 mm, for 8, 10, 12, 14 and 16 HP
- Maximum capacity size as 48 HP by 3 unit combinations (16 HP x 3 = 48 HP)
- Up to 52 indoor units connectable
- Maximum capacity ratio of 150%

Top of the market COP (at full load), standard efficiency

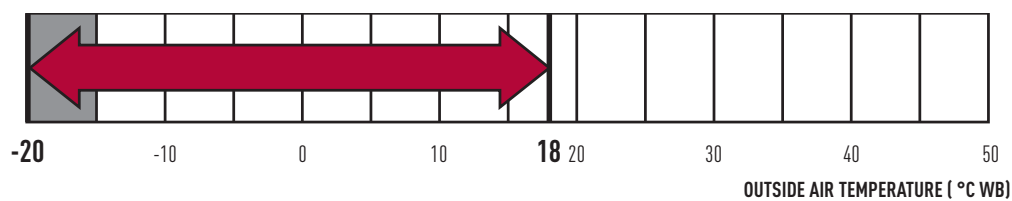


Extended operating range

Cooling operation range: The cooling operation range has been extended to -10 °C by changing the outdoor fan to an inverter type.



Heating operation range: 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.

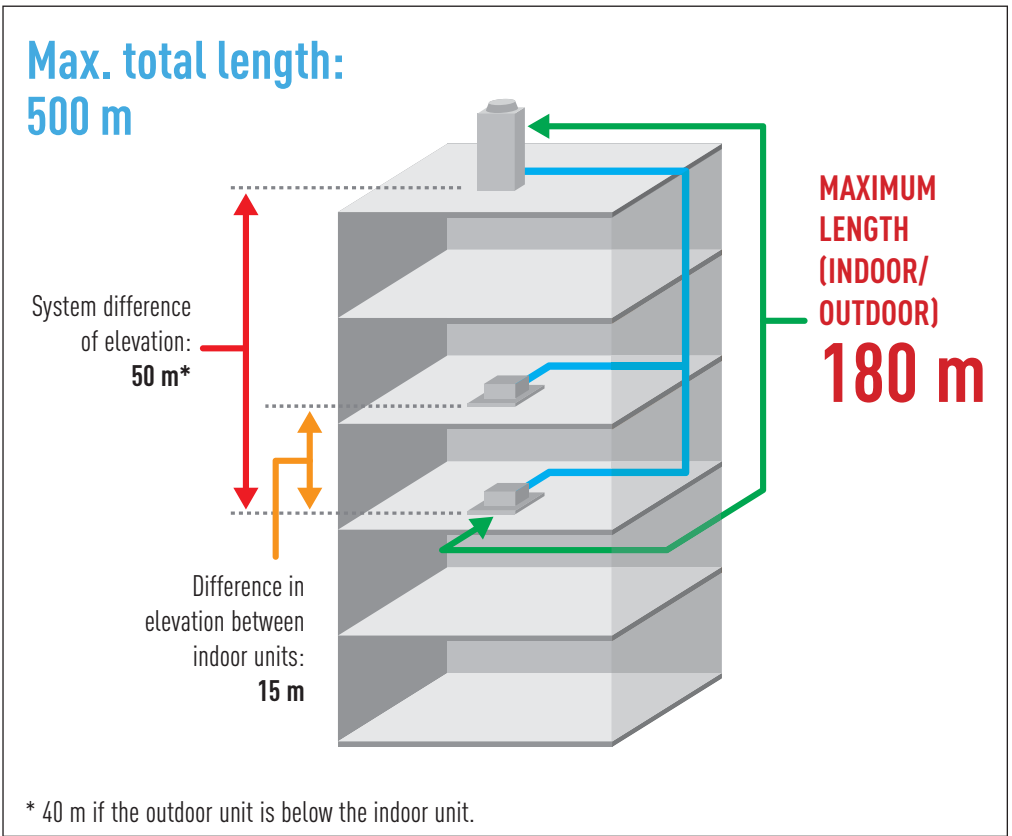


NEW



Increased piping lengths and design flexibility

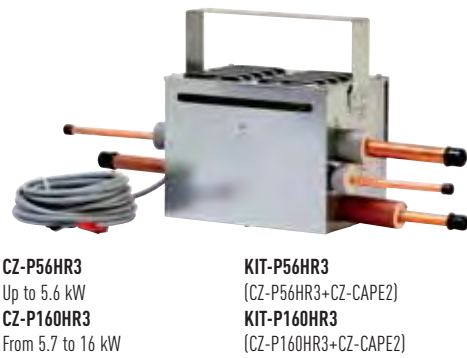
Adaptable to various building types and sizes. Actual piping length: 180 m. Maximum piping length: 500 m.



New Solenoid valve kit

Oil-recovery operation to gives more stable comfort air-conditioning control.

3-Pipe control Solenoid valve kit



3-Pipe control PCB



NEW

ECO G

Panasonic introducing the Gas Driven VRF with electric generator

Internet Control Ready
CONTROL YOUR AIR CONDITIONING FROM EVERYWHERE
INTERNET CONTROL

High savings
ECO G

Environmentally friendly refrigerant
R410A

Easy control by BMS
CONNECTIVITY



NEW

New ECO G High Power

1% this is what the new ECO-g High Power is consuming versus your Electrical VRF. Your savings starts now!
Ideal for locations with low electricity grid, for Chiller, Ventilation and Air conditioning application.



ECO G and ECO G Multi

The S Series 2-Pipe not only offers improved performance but also increased flexibility.



ECO G 3 Way Multi

3 Way heat recovery system with simultaneous heating & cooling.

HP	16	20	25	30	32	36	40	45	50
Capacity (Cooling / Heating) kW	45.00 / 50.00	56.00 / 63.00	71.00 / 80.00	85.00 / 95.00	90.00 / 100.00	101.00 / 113.00	112.00 / 126.00	127.00 / 143.00	142.00 / 160.00



NEW

ECO G High Power	U-16GEP2E5	U-20GEP2E5	U-25GEP2E5						
ECO G and ECO G Multi	U-16GE2E5	U-20GE2E5	U-25GE2E5	U-30GE2E5	U-16GE2E5 U-16GE2E5	U-16GE2E5 U-20GE2E5	U-20GE2E5 U-20GE2E5	U-20GE2E5 U-25GE2E5	U-25GE2E5 U-25GE2E5
ECO G 3 Way Multi	U-16GF2E5	U-20GF2E5	U-25GF2E5						

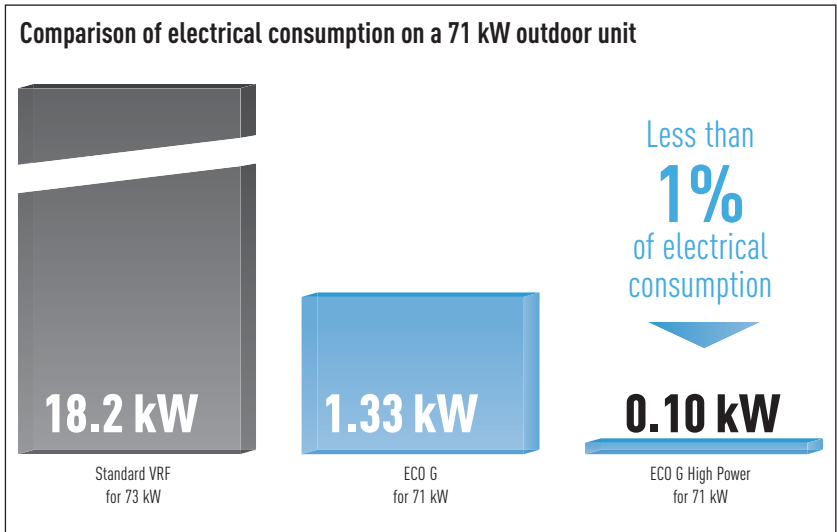
Easy to position

The advanced Gas Driven VRF systems offers increased efficiency and performance across the range. Now more powerful than ever before, it can connect up to 48 indoor units.
Improvements include increased part load performance, reduced gas consumption with a Miller-cycle engine and reduced electrical consumption by using DC fan motors.

- Up to 71 kW of cooling from a current consumption of 11.0 AMPs
- Single phase power supply across the range
- The option of natural gas or LPG as its main power source
- A water heat exchanger to connect to domestic hot water systems 16–25 HP (2-Pipe units only)
- Option of DX or chilled water for indoor heat exchange
- Reduced CO₂ emissions

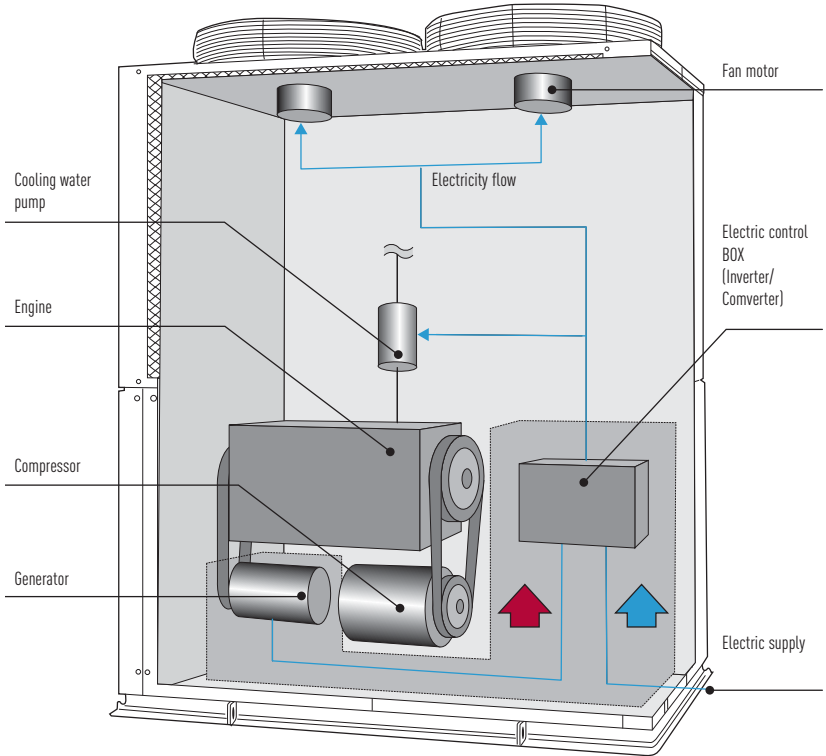
New ECO G High Power

ECO G with electrical generator. Only consumes 1% of the electricity required by Standard VRF systems.



Panasonic innovates again introducing a new ECO G producing its own electricity.

Equipped with a small generator of high-performance Compressor and generator are driven by gas engine. The generated electricity is used for the fan motor and cooling water pump. The generating efficiency is more than 40%.



Possible to use on R22 pipings

R22 RENEWAL

R22 Renewal for PACi and ECOi

R22 - The reduction of chlorine critical for a cleaner future

Why renewal? 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 starting from Jan 1st 2010 the use of Virgin (new) R22 refrigerant was banned within the European Community.

Panasonic are doing our part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment., Panasonic have 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 systems. By bringing a simple solution to the problem Panasonic can renew all Split Systems and VRF systems; and depending upon certain restrictions we don't even limit the manufactures equipment we are replacing. By installing a new high efficiency Panasonic R410A system you can benefit from around 30% running cost saving compared to the R22 system.

The installation can also qualify for the government's ECA (Enhanced Capital Allowance Scheme) which enables you to offset the cost against your Capital Gains Tax.

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...

Panasonic's Renewal system allows a completely new VRF system, indoor and outdoor units, to be installed using the existing systems pipe work.

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.

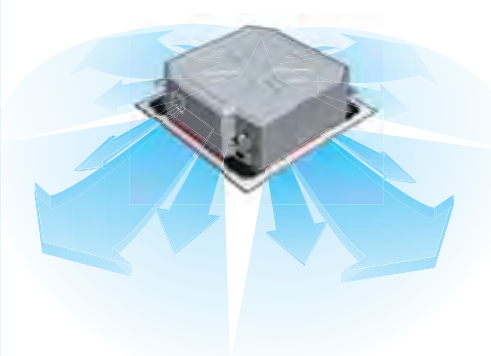
Firstly a thorough inspection of the pipe work must be carried out and any damage must be repaired.

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.

NEW

Indoor units for Mini ECOi, ECOi and ECO G

Wide choice of models depending on the indoor requirements.

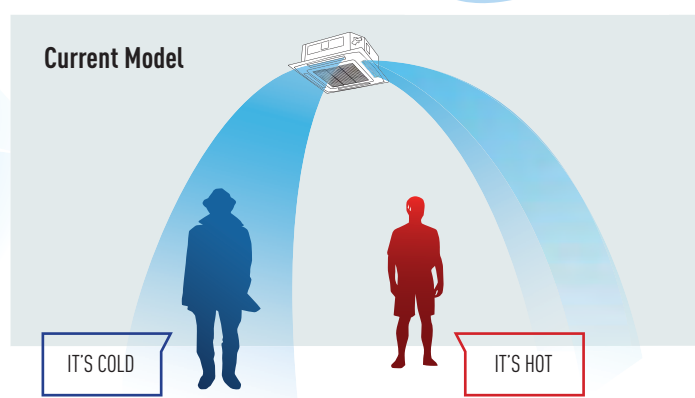


New 360° Air Flow for better comfort

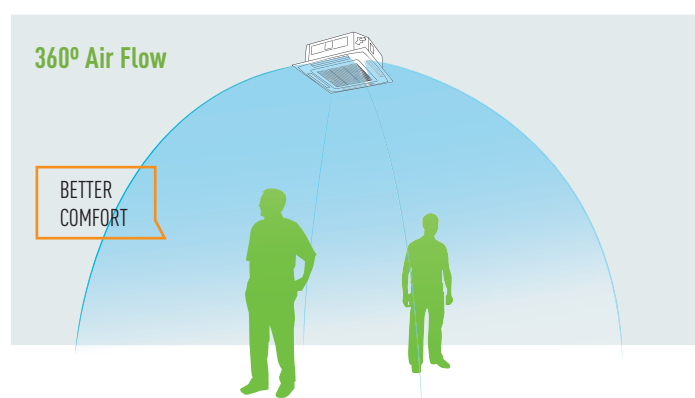
This proprietary design provides a wide and very comfortable airflow. The cassette's wide-angle discharge outlets and flaps are larger in the middle, featuring a shape that was selected based on geometrics and testing of actual prototype units. Air coming out of the center of the discharge outlets travels farther. From the sides of each outlet, where the openings are larger, airflow spreads out to reach the corners of the room. Air is discharged across a wide area from the four sides of the unit. The curves on the room temperature distribution graph expand gently out through 360° in a circle centred on the indoor unit.

360°
air flow
































Current Model



360° Air Flow



VRF Systems Indoor Units Range

	2.2 kW	2.8 kW	3.6 kW	4.5 kW	5.6 kW	6.0 kW	7.3 kW	8.4 kW	9.0 kW	10.6 kW	11.2 kW	12.5 kW	14.0 kW	16.0 kW	16.8 kW	20.0 kW	22.4 kW	25.0 kW	28.0 kW	30.0 kW
U1 Type // 4-Way 90x90 Cassette																				
	S-22MU1E51	S-28MU1E51	S-36MU1E51	S-45MU1E51	S-56MU1E51	S-60MU1E51	S-73MU1E51		S-90MU1E51	S-106MU1E51			S-140MU1E51	S-160MU1E51						
Y1 Type // 4-Way 60x60 Cassette																				
	S-22MY1E51	S-28MY1E51	S-36MY1E51	S-45MY1E51	S-56MY1E51															
L1 Type // 2-Way Cassette																				
	S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5		S-73ML1E5													
D1 Type // 1-Way Cassette																				
		S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5		S-73MD1E5													
F2 Type // Variable Static Pressure Hide Away																				
	S-22MF2E5	S-28MF2E5	S-36MF2E5	S-45MF2E5	S-56MF2E5	S-60MF2E5	S-73MF2E5		S-90MF2E5	S-106MF2E5			S-140MF2E5	S-160MF2E5						
M1 Type // Slim Variable Static Pressure Hide Away																				
	S-22MM1E51	S-28MM1E51	S-36MM1E51	S-45MM1E51	S-56MM1E51															
E1 Type // High Static Pressure Hide Away																				
																	S-224ME1E5A		S-280ME1E5	
T1 Type // Ceiling																				
			S-36MT1E5	S-45MT1E5	S-56MT1E5		S-73MT1E5			S-106MT1E5			S-140MT1E5							
K2/K1 Type // Wall Mounted																				
	S-22MK2E5 ¹ S-22MK1E5 ²	S-28MK2E5 ¹ S-28MK1E5 ²	S-36MK2E5 ¹ S-36MK1E5 ²	S-45MK1E5	S-56MK1E5		S-73MK1E5			S-106MK1E5										
P1 Type // Floor Standing																				
	S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5		S-73MP1E5													
R1 Type // Concealed Floor Standing																				
	S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5		S-73MR1E5													
AHU Connection Kit, 28 and 56 kW for ECOi and ECO G																				
		CZ-280MAH1			CZ-560MAH1		CZ-280MAH1 + CZ-560MAH1		CZ-560MAH1 x 2			CZ-280MAH1 + CZ-560MAH1 x 2		CZ-560MAH1 x 3						
Air Curtain Jet-Flow																				
											PAW-10EAIRC-MJ					PAW-16EAIRC-MJ		PAW-25EAIRC-MJ		PAW-30EAIRC-MJ
Air Curtain Standard																				
											PAW-10EAIRC-MS							PAW-25EAIRC-MS		

Wide choice of models depending on the indoor requirements. 1 Available from June 2013. 2 Available until current stock ends.

Panasonic's New Advanced VRF Software with AutoCAD® compatibility makes design easier than ever

Panasonic is pleased to announce the launch of its new Advanced VRF Designer software. Building on the success of the ECOi VRF Designer software, this package provides air conditioning system designers, installers and dealers with a program to design and size projects for Panasonic's VRF ranges.

Similar to the standard VRF Designer software, it is possible to create wiring diagrams, electrical power wiring and issue bills of quantities with a simple push of a button. With Panasonic's Advanced software, designers are now able to work directly from AutoCAD files, making the process extremely easy to manage and time-saving. AutoCAD drawings, print outs and scans from existing designs can be imported and altered with the system therein. Super-efficient and built for the designers' every need, Panasonic's Advanced VRF software can create life-sized piping designs and automatic length calculation based on their imported drawings.



Available on www.panasonicproclub.com
or connect simply with your smartphone to the proclub using this QR.

NEW

Air Handling Unit Kit for VRF

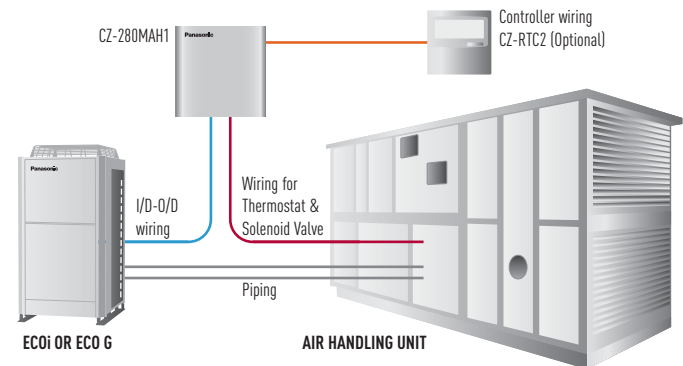
New AHU Kit connects VRF systems to Air Handling Unit systems, using the same refrigerant circuit as the VRF system.



Possible Solution 1 by 1

Panasonic AHU Kit, 28 / 56 kW

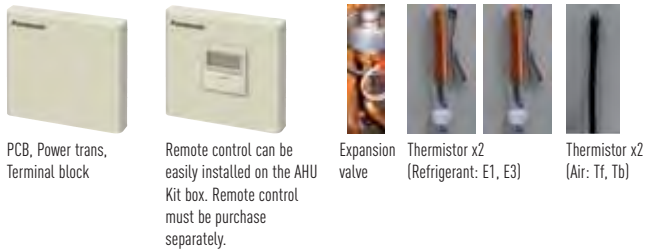
PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box.



Panasonic's AHU kit provides impressive connectivity options in order to ensure easy integration.

They can be installed in hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air is needed.

AHU Connection Kit

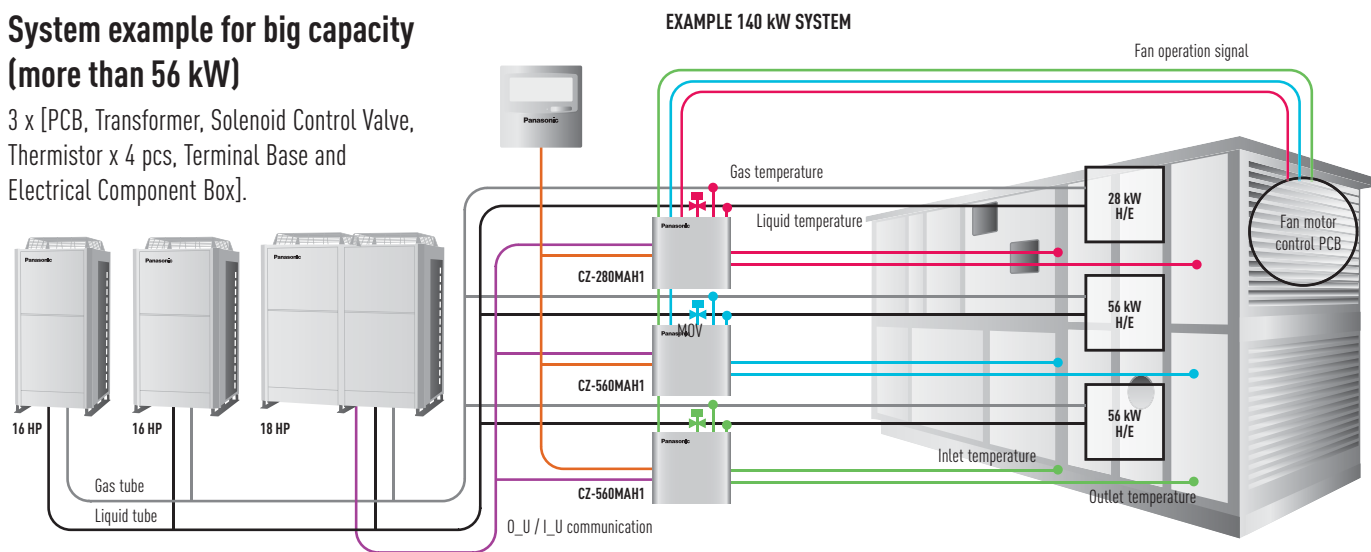


Remote controller



System example for big capacity (more than 56 kW)

3 x [PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box].



Optional parts: Following functions are available by using different type of control accessories:

CZ-RTC2 Wired 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

- Temperature setting by 0-10 V or 0-140 input signal
- Room (inlet air) temp outlet by 4-20 mA
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output

NEW Connectivity solutions for all types of applications

Control your Air conditioning system with your smart device -smartphone & internet for PACi and FS Multi

Panasonic has always offered its customers the most efficient Heat Pumps and Air Conditioners. Now it has taken a step forward and presents with the partnership of Intesis the IntesisHome, the most advanced service taking advantage of the latest Cloud Technology to manage your climate system from anywhere in the world.

Control your environment from you iPad, iPhone, any Android device or from a PC with Internet access using IntesisHome®. Offering the same functions as if you were at home: start/stop, Mode Operation, Set Temperature, Room Temperature etc. Experience the new, advanced functionality provided by IntesisHome® to achieve the best comfort and efficiency with the lowest energy consumption.



KX-UT670 Smart Desktop Phone from Panasonic.

Easy control of the indoor unit using a simple interface

The Intesis interface is designed for Panasonic devices and allows monitoring and control of all the functioning parameters of the remote controls. It can be simply installed inside the indoor unit - with no need for external power supply. The configuration is made directly from ETS, the database of the device comes with a complete set of communication objects allowing, from a simple and quick integration using the basic objects, to the most advanced integration with monitoring and control all the indoor unit's parameters. More information on http://www.intesis.com/pdf/IntesisBox_PA-AC-xxx-1_AC_Compatibility.pdf

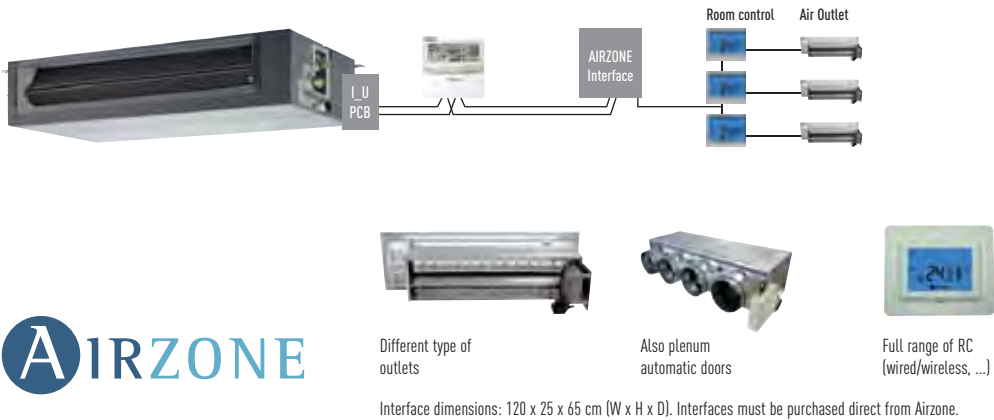


	Interfaces					
Aquarea			Modbus®			
Etherea			Modbus®			
PACi			Modbus®			
FS Multi						
ECOi / ECO G			Modbus®			

Airzone. Control of the PACi and FS Multi Hide Aways

Airzone has developed interfaces to easily connect to Panasonic PACi and FS Multi 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

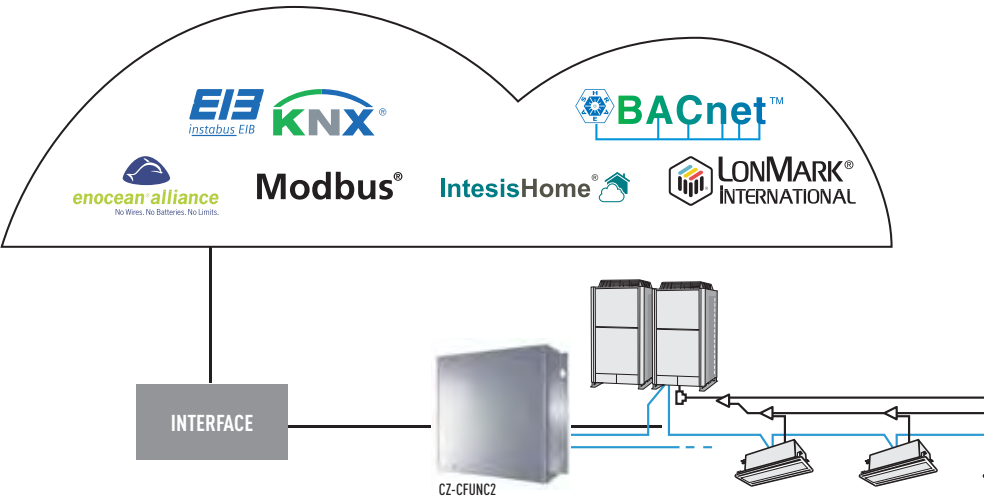


Full integration on BMS projects for ECOi and ECO G

Connectivity with ECOi and ECO G. New Plug and play interfaces connected directly to your system. Great flexibility for integration into your KNX / EnOcean / Modbus / IntesisHome / BACnet / LonWorks projects allows fully bi-directional monitoring and control of all the functioning parameters. Panasonic Partners have designed solutions specifically for Panasonic air conditioners, and provide complete monitoring, control and full functionality of the entire Commercial line-up from KNX / EnOcean / Modbus / IntesisHome / BACnet / LonWorks installations. For more information, contact Panasonic.

Communication adaptor (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 260 x W 200 x D 68 mm

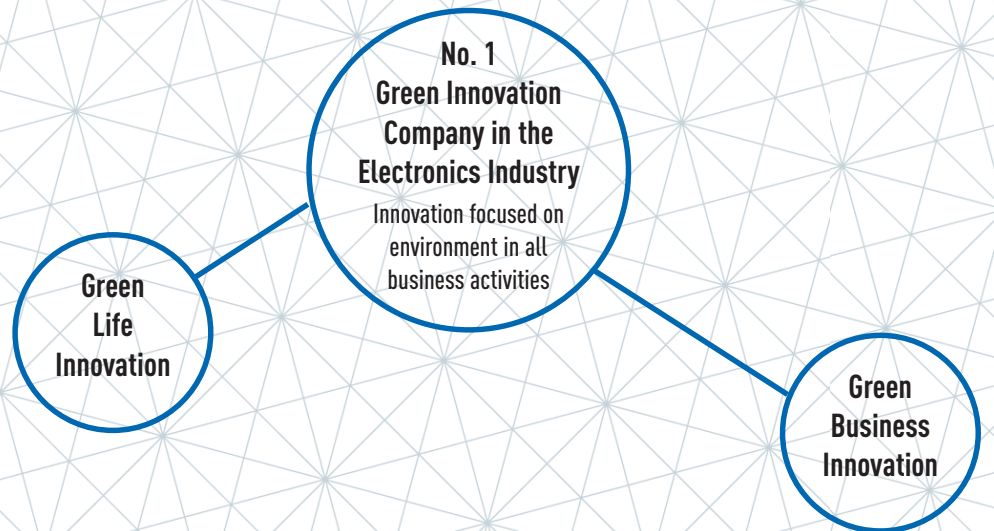
* As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.



Eco & smart ideas for a sustainable lifestyle

Panasonic aims to be the No. 1 Green Innovation Company in the Electronics Industry by 2018.

We will make the environment central to all our business activities and work to realise our vision with innovations for both business and everyday life.



Exemplary sustainable projects



Blackfriars Bridge. London, UK
with Panasonic solar panels.



Skolkovo City. Moscow, Russia
with Panasonic energy saving concept.

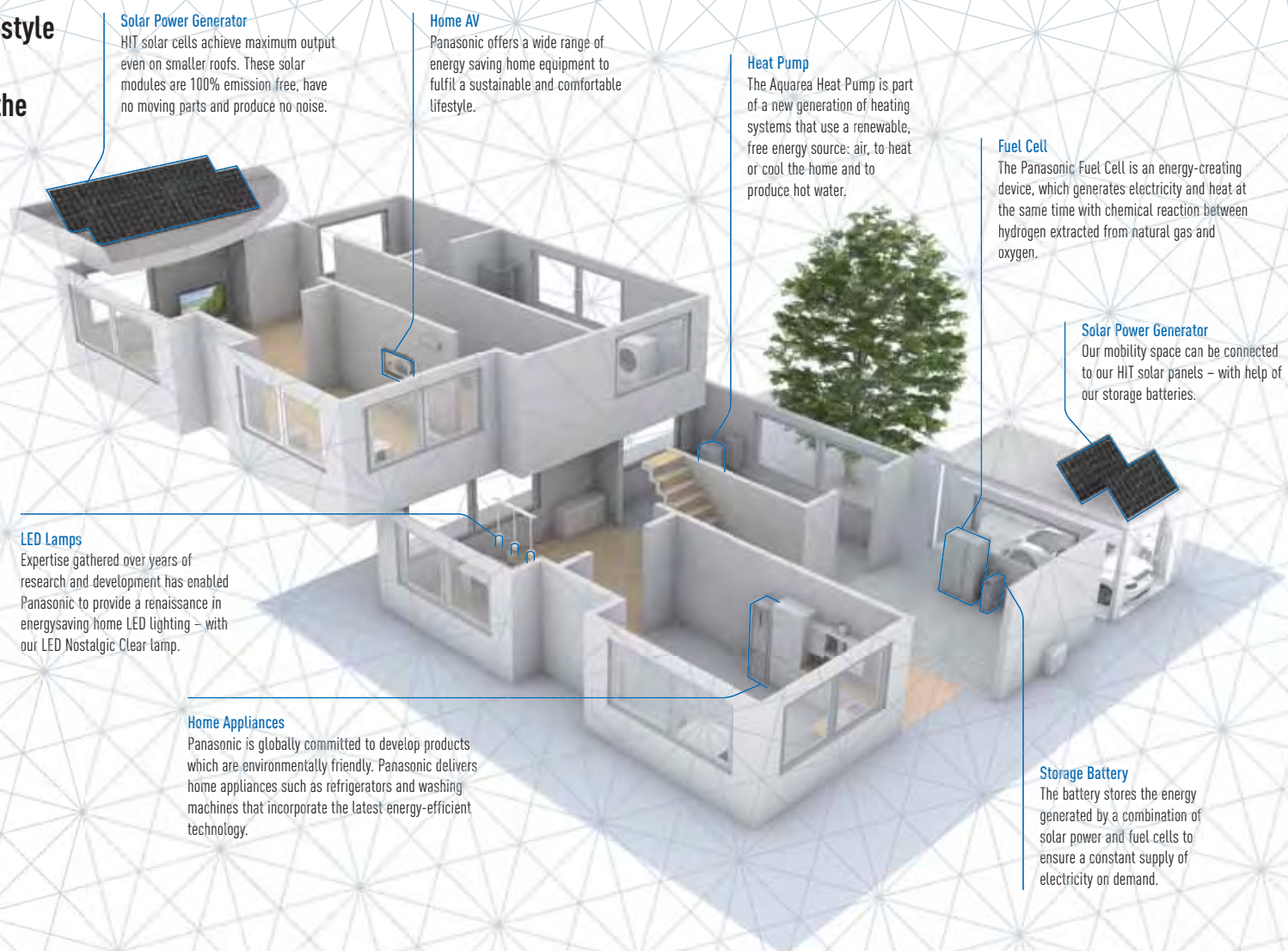


Photosynthesis. Milano Salone, Milano, Italy
with Panasonic LED light bulbs and HIT solar power generators.



Siestorage
modular energy storage solution with Panasonic lithium ion batteries.

We aim to realise a lifestyle with virtually zero CO₂ emissions throughout the entire home



Panasonic®

To find out how Panasonic cares for you,
log on to: www.panasonic.co.uk/aircon

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