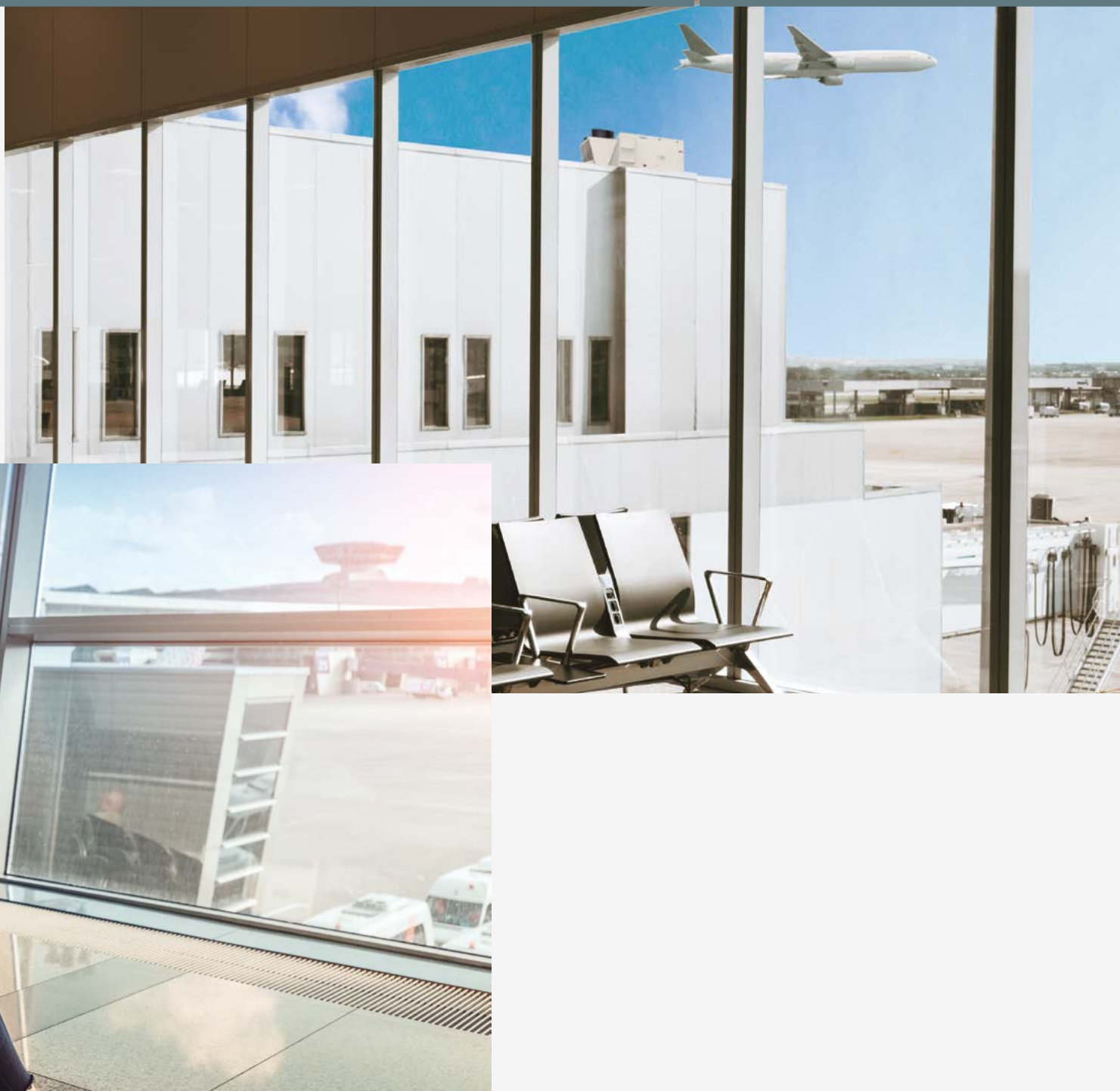


Rooftops

Rooftop units provide air-based cooling and heating for commercial buildings to ensure thermal comfort and proper indoor air quality (IAQ) through ventilation. Easy installation, space savings and customisation allow you to meet all your needs.





Rooftops	→ 594
Quick selection guide - Rooftops cooling only	→ 596
Quick selection guide - Rooftops reversible	→ 596
Energy recovery system configurations	→ 597
ECOi-RT-Z 40-50 C/H · R32	→ 598
ECOi-RT-Z 105-140 H · R32	→ 600
ECOi-RT C/H · R410A	→ 602

Rooftops

A complete mono-bloc solution for large buildings.

With rooftop units, you get a complete compact and mono-bloc solution to heat and cool large buildings such as shopping centers, industries or airports that need high capacities. It is an easy to install, space saving solution, directly on the roof or close to a building.



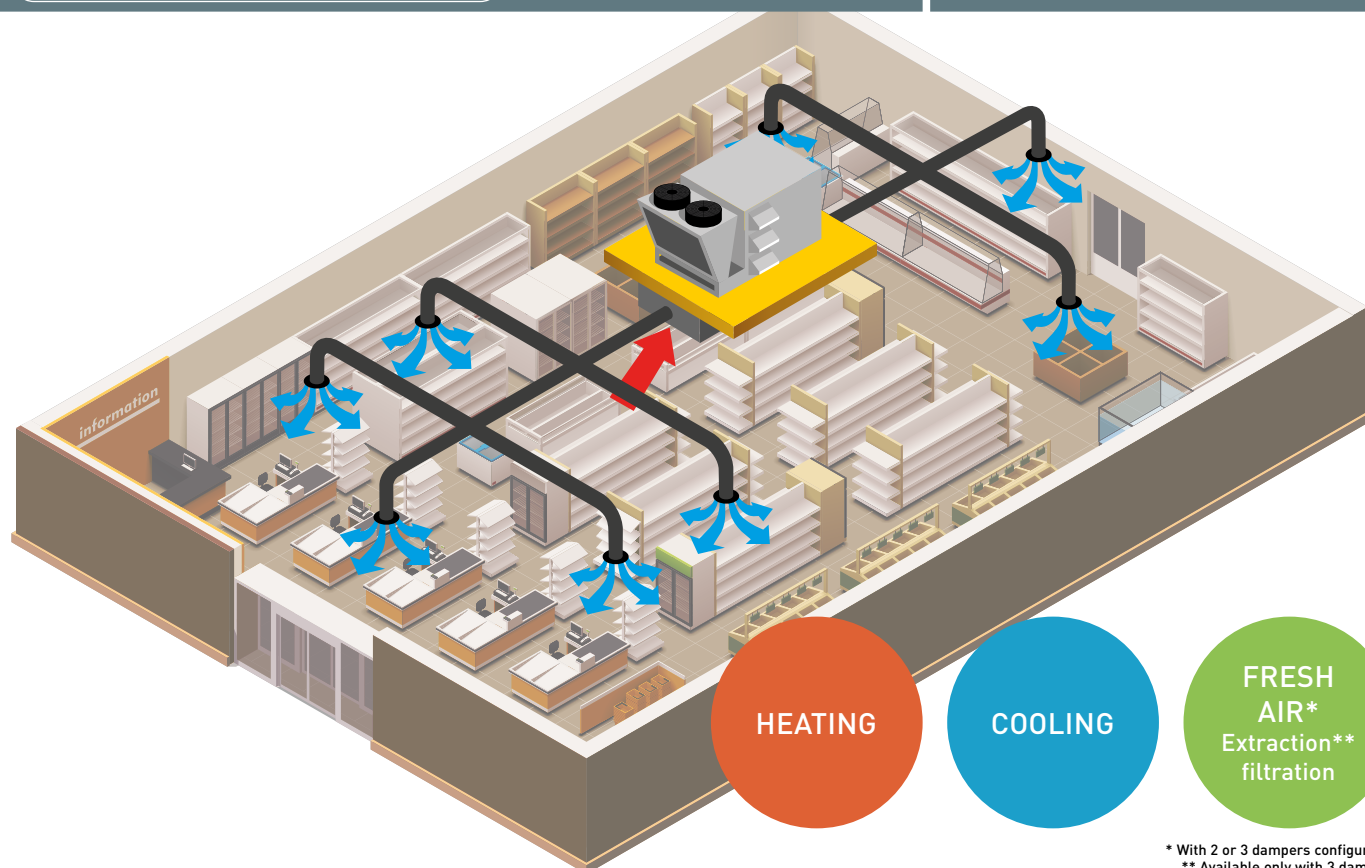
R32 Rooftop units.

Extension of the rooftop range with R32 refrigerant.

2 sizes (40-50).

1 chassis.

- Low energy consumption EC indoor fans
- EC outdoor fan (option)
- Cooling only and heat pump versions
- Wide operating limits: from -15 °C to +50 °C OAT
- Very compact unit
- Double skin (standard)
- Many aerodynamic configurations
- Dehumidification
- Fresh air preheating
- Air quality management (option)



* With 2 or 3 dampers configurations.
** Available only with 3 dampers configuration.



Self-contained solution,
compact and mono-bloc.



Capacity range
from 40 to 220 kW.

R410A
R32

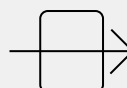
Refrigerants:
R410A / R32.

HIGH SEER
HIGH SCOP

High SEER
and SCOP.

HIGH
ESP

Very high external static
pressure.

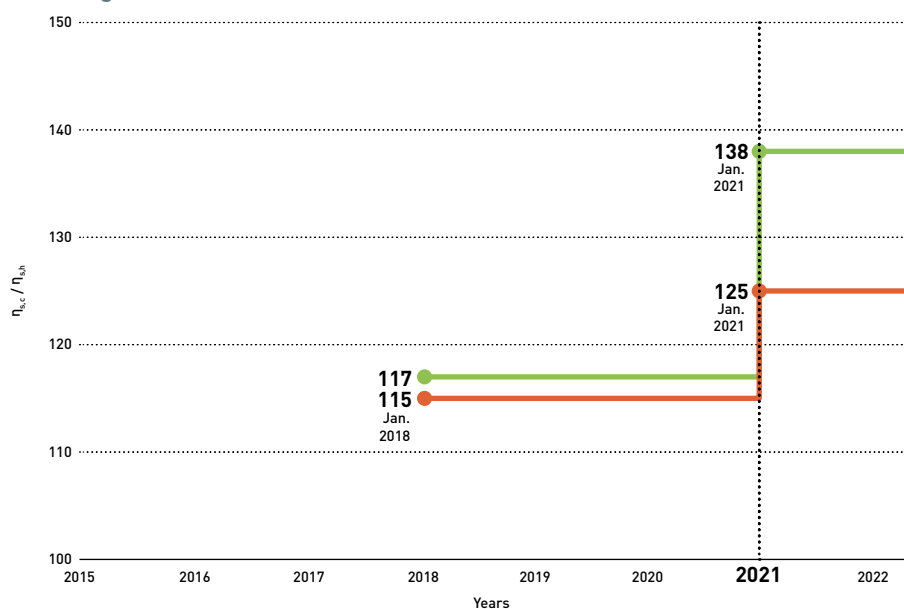


Extractible
drain pan.



Many configurations and
options.

Ecodesign



Air to air rooftops cooling only.

Minimum $\eta_{a,c}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

Air to air rooftops reversible.

Minimum $\eta_{a,h}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) No813/2013.

Quick selection guide - Rooftops cooling only

Page	Size	Cooling capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension LxHxW (mm)
NEW ECOi-RT-Z 40-50 C · R32  P. 598	40	40,80	7500	—	2484 x 1652 x 1850
	50	50,50	9200	—	2484 x 1652 x 1850
ECOi-RT C · R410A  P. 602	55	49,60	9720	80	3250 x 1800 x 2030
	65	62,80	11500	83	3250 x 1800 x 2030
	80	79,00	14300	80	3250 x 1800 x 2030
	95	89,27	17500	85	3740 x 2110 x 2285
	105	111,08	19200	85	3740 x 2110 x 2285
	120	119,87	21500	87	3740 x 2110 x 2285
	140	142,09	25500	91	3740 x 2110 x 2285
	160	164,98	28000	91	5505 x 2110 x 2285
	190	197,06	30000	92	5505 x 2110 x 2285
	210	219,12	32000	94	5505 x 2110 x 2285

Quick selection guide - Rooftops reversible

Page	Size	Cooling and heating capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension LxHxW (mm)
NEW ECOi-RT-Z 40-50 H · R32  P. 598	40	40,80 52,00	7500	—	2484 x 1652 x 1850
	50	50,50 53,00	9200	—	2484 x 1652 x 1850
ECOi-RT-Z 105-140 H · R32  P. 600	105	106,0 106,0	19200	79,8	3740 x 2150 x 2285
	120	119,0 117,0	21500	79,8	3740 x 2150 x 2285
	140	139,0 142,0	25500	86,1	3740 x 2150 x 2285
ECOi-RT H · R410A  P. 602	55	48,1 50,7	9720	80	3250 x 1800 x 2030
	65	61,0 59,7	11500	83	3250 x 1800 x 2030
	80	76,7 76,6	14300	80	3250 x 1800 x 2030
	95	87,2 90,7	17500	85	3740 x 2110 x 2285
	105	107,8 107,0	19200	85	3740 x 2110 x 2285
	120	116,3 117,1	21500	87	3740 x 2110 x 2285
	140	137,9 148,7	25500	91	3740 x 2110 x 2285
	160	160,1 157,9	28000	91	5505 x 2110 x 2285
	190	191,2 187,3	30000	92	5505 x 2110 x 2285
	210	212,6 214,4	32000	94	5505 x 2110 x 2285

* Heat pump version with EC fans.

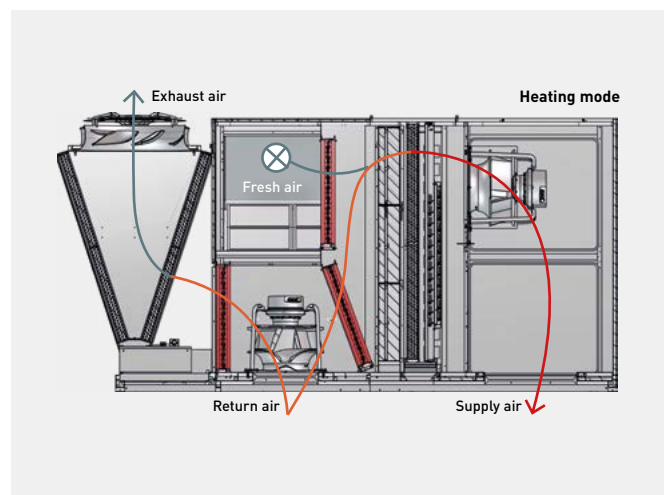
Energy recovery system configurations

RECO - standard energy recovery (3 dampers)

Energy recovery on the exhaust air.

	Pc	EER	Ph	COP
3 dampers + RECO 30% fresh air	+1%	+2%	+7%	+4%
3 dampers + RECO 60% fresh air	+2%	+4%	+14%	+8%

* Nominal conditions. Pc: cooling capacity / Ph: heating capacity.



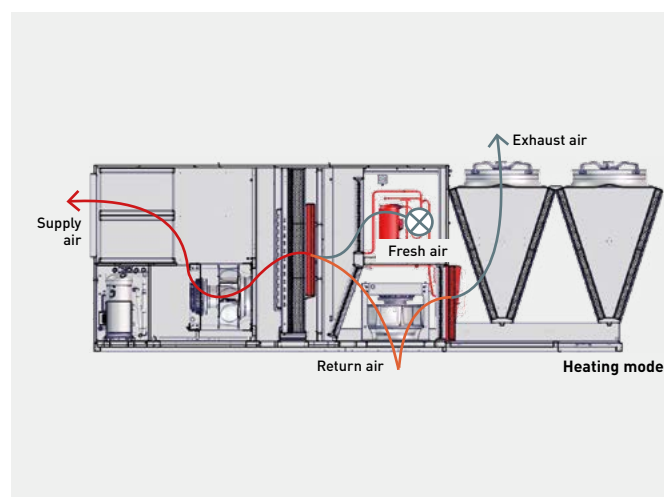
TRECO - thermodynamic energy recovery (3 dampers)

Active energy recovery between the exhaust air and the fresh air using dedicated thermodynamic system.

	Pc	EER	Ph	COP
3 dampers + TRECO 20% fresh air	+21%	0%	+20%	+3%
3 dampers + TRECO 60% fresh air	+20%	-2%	+21%	+4%

* Nominal conditions. Pc: cooling capacity / Ph: heating capacity.

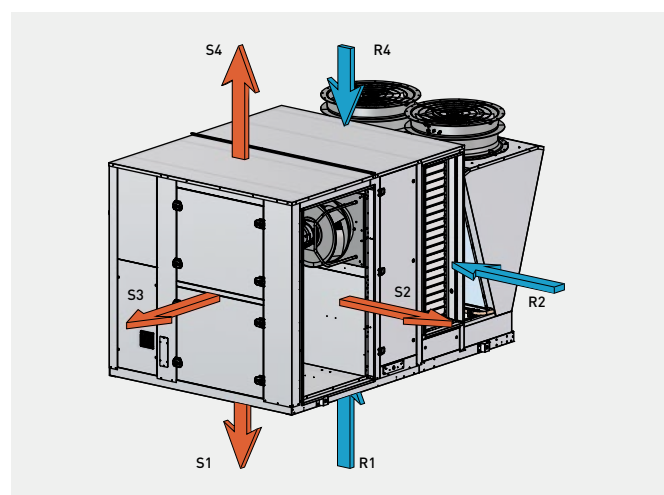
** TRECO is not available for the R32 rooftops.



Supply and return air configurations

Supply air	S1 bottom side supply air
	S2 left side supply air
	S3 front side supply air
	S4 top side supply air
Return air	R1 bottom side return air
	R2 left side return air
	R4 top side return air ¹⁾

1) Not available with the 3 dampers - RECO system configuration.



AC SELECT.

Smart and user-friendly the new air conditioning selection program: <https://acselect.panasonic.eu/>





ECOi-RT-Z 40-50 C/H · R32

Rooftop cooling only and reversible units.

Cooling capacity: 40,8 to 50,5 kW.

Heating capacity: 52,0 to 53,0 kW.

**CO₂ carbon footprint
reduced by -80%***

* Impact considering only the refrigerants
and not the units as a whole.

R32
REFRIGERANT

Coming soon. **Summer 2025**



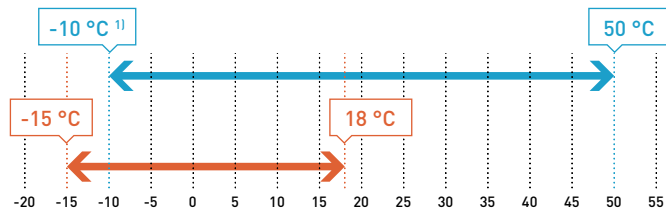
New **2025**

Operating limits

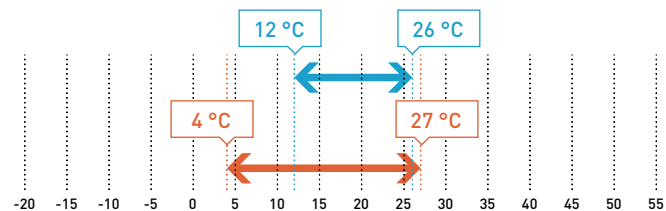
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature (DB).



Temperature before indoor coil ²⁾.



1) Using fan speed control option. 2) Cooling: °C (WB). Heating: °C (DB).

Accessories and options

2 dampers - for external air inlet

3 dampers - return EC exhaust fan included

Adjustable roof curb

Anti-vibration mounts

Clogged filter sensor (1 or 2 stages)

Compressor soft starter

Container transportation compatibility

Dehumidification function

Electrical heater 18, 27 or 36 kW

Preheater 27 or 36 kW

Accessories and options

Energy meter

Fan speed control

G4, G4+F7 or G4+F9 filters

Hot water coil

Local and additional remote keyboard

Many aeratic configurations

Room temperature sensor

Sensors (enthalpy, CO₂)

Smoke detector

Supply EC LPF plug fans

The range at a glance

- 2 versions: C (cooling only) and H (reversible)
- 2 sizes
- SEER up to 4,35 and SCOP up to 3,56
- Nominal air flow from 19200 to 25500 m³/h
- Additional heaters & preheater available
- 3 dampers configuration including EC exhaust fan

Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Very low sound levels
- Very compact unit
- Safety ventilation system
- Low energy consumption EC indoor fans standard
- Low energy consumption EC outdoor fans in option
- Many supply and return air configurations
- Thermal/acoustic insulation: double skin (25 mm glasswool)
- Dehumidification function (option)
- 100% factory tested

Equipment

- 1 refrigerant circuit with tandem of compressors. The circuit comprises 2 Scroll compressors in tandem, indoor and outdoor coils, 4 way reversing valve, filter dryer, sight glass, electronic expansion valve, high and low pressure switches, defrosting pressure switch, and temperature sensors
- 2 Scroll compressors in tandem. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with an overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The new advanced control system includes, among others, Modbus RTU, Modbus TCP/IP, BACnet IP or BACnet MSTP protocols, optimised defrost logic, very high security envelope, Modbus control of the indoor fans, and a dehumidification function. The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. They have a highly optimised design providing a refrigerant charge reduction of 40% (compared to a unit operating with R410A). Outdoor coil is largely dimensioned to optimise performance and defrost cycles. It can also be equipped with a protective grille in option to prevent shocks - Bluefin treatment
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fans are plug fan type with EC motors
- A safety ventilation system ensures venting of the refrigerant gas to atmosphere in case of leak



Technical features

Size				
ECOi-RT-Z 40-50 H - cooling only			40	50
Cooling capacity ¹⁾	kW		40,8	50,5
Input power ¹⁾	kW		11,7	15,6
EER ¹⁾			3,49	3,24
Pdesign ^{2) 3)}	kW		40,8	50,5
SEER ^{2) 3)}			4,28	4,24
Energy efficiency class ^{2) 3)}	A+ to E		B	B
η _{s,c} ^{2) 3)}			168,3	166,7
ECOi-RT-Z 40-50 H - reversible				
Cooling capacity ¹⁾	kW		40,8	50,5
Input power ¹⁾	kW		11,7	15,6
EER ¹⁾			3,49	3,24
Pdesign ^{2) 3)}	kW		40,8	50,5
SEER ^{2) 3)}			4,28	4,24
Energy efficiency class ^{2) 3)}	A+ to E		B	B
η _{s,c} ^{2) 3)}			168,3	166,7
Heating capacity ¹⁾	kW		52,0	53,0
Input power ¹⁾	kW		11,3	14,7
COP ¹⁾			3,72	3,61
Pdesign ^{2) 3)}	kW		52,0	53,0
SCOP ^{2) 3)}			3,44	3,42
Energy efficiency class ^{2) 3)}	A+ to E		B	B
η _{s,h} ^{2) 3)}			134,4	133,6
Electrical data				
Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Refrigerant and compressors				
Number of refrigerant circuits			1	1
Compressors	Number / type		2 / Scroll	2 / Scroll
Mounting type			Tandem	Tandem
Capacity steps	%		0 / 50 / 100	0 / 50 / 100
Indoor coil				
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins
Outdoor coil				
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins
Indoor fans - EC type				
Fan type			Backward curved centrifugal	Backward curved centrifugal
Number of fans			2	2
Air flow rate	Min. / Nominal / Max.	m³/h	7500	9200
Outdoor fans				
Fan	Number / type		2 / Axial	2 / Axial
Dimension and weight				
Dimension	L x W x H	mm	2484 x 1850 x 1652	2484 x 1850 x 1652
Weight (without option)		kg	694	712

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

R32

REFRIGERANT

HIGH
SEER

3,82

HIGH
SCOP

3,56

ErP

EC MOTOR
GREEN VENTILATIONSCROLL
COMPRESSORVERY HIGH
PERFORMANCE



ECOi-RT-Z 105-140 H · R32

Rooftop reversible units.

Cooling capacity: 106 to 139 kW.

Heating capacity: 106 to 142 kW.

**CO₂ carbon footprint
reduced by -80%***

* Impact considering only the refrigerants
and not the units as a whole.

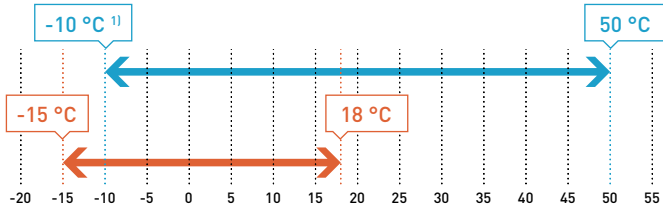
R32
REFRIGERANT



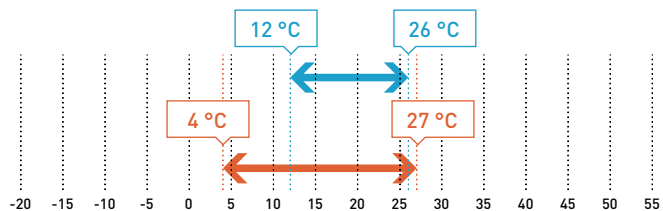
Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

Ambient temperature (DB).



Temperature before indoor coil ²⁾.



1) Using fan speed control option. 2) Cooling: °C (WB). Heating: °C (DB).

The range at a glance

- Reversible version
- SEER up to 3,8 and SCOP up to 3,56
- 3 sizes
- Nominal air flow from 19200 to 25500 m³/h
- Additional heaters available
- Many supply and return air configurations
- 1 energy recovery system configuration (RECO)

Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Very low sound levels
- Safety ventilation system
- Low energy consumption EC fans
- Many supply and return air configurations
- Thermal/acoustic insulation: double skin (25 mm glasswool)
- Dehumidification function (option)
- 100% factory tested

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of 1 Scroll compressor, indoor and outdoor coils, 4 way reversing valve, filter dryer, sight glass, thermostatic expansion valve, high and low pressure switches, defrosting pressure switch, and temperature sensors
- 2 Scroll compressors - 1 per circuit - covered with sound jackets. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with an overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The new advanced control system includes, among others, Modbus protocols, optimised defrost logic, very high security envelope, Modbus control of the indoor fans, and a dehumidification function. The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. They have a highly optimised design providing a refrigerant charge reduction of 40% (compared to a unit operating with R410A). Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fans are plug fan type with EC motors
- A safety ventilation system ensures venting of the refrigerant gas to atmosphere in case of leak

ECOi-RT-Z 105-140 H · R32 units are available in 3 configurations:

- No damper: unit working with 100% recycled air
- 2 dampers: with outdoor air inlet
- 3 dampers - RECO system: energy recovery system on the exhaust air. This configuration is equipped with 2 return EC plug fans



Technical features

Size		105	120	140
ECOi-RT-Z 105-140 H - reversible		P-RTZ0105HA	P-RTZ0120HA	P-RTZ0140HA
Cooling capacity ¹⁾	kW	106	119	139
Input power ¹⁾	kW	31,5	36,8	43,0
EER ¹⁾		3,37	3,23	3,24
P_{design} ^{2) 3)}	kW	106	119	139
SEER ^{2) 3)}		3,82	3,82	3,67
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B
η_{s,c} ^{2) 3)}		150	150	144
Heating capacity ¹⁾	kW	106	117	142
Input power ¹⁾	kW	27,0	30,3	38,0
COP ¹⁾		3,72	3,89	3,69
P_{design} ^{2) 3)}	kW	100	118	140
SCOP ^{2) 3)}		3,36	3,56	3,32
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B
η_{s,h} ^{2) 3)}		131	130	130
Electrical data				
Power supply	Voltage	V	400	400
	Phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50
Maximum operating intensity	A	79,0	85,0	105,0
Refrigerant and compressors				
Number of refrigerant circuits		2	2	2
Compressors	Number / type	2 / Scroll	2 / Scroll	2 / Scroll
Mounting type		Single	Single	Single
Capacity steps	%	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100
Indoor coil				
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		4	4	4
Front surface	m ²	3,24	3,24	3,24
Outdoor coil				
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		3	3	3
Front surface	m ²	1,50	1,50	1,50
Indoor fans - EC type				
Fan type		Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans		2	2	2
Air flow rate	Min. / Nominal / Max.	m ³ /h 15360 / 19200 / 23040	17200 / 21500 / 25800	20400 / 25500 / 30600
Motor power	kW	4,23	4,60	5,72
Outdoor fans				
Fan	Number / type	2 / Axial	2 / Axial	2 / Axial
Motor power	kW	1,51	1,51	1,51
Sound levels				
Sound power	dB(A)	79,8	79,8	86,1
Supply sound power	dB(A)	84,2	84,2	91,3
Sound pressure at 10 m	dB(A)	48,8	48,8	55,1
Dimension and weight				
Dimension	Length total / floor	mm 3740 / 3295	3740 / 3295	3740 / 3295
	Width / Height	mm 2285 / 2150	2285 / 2150	2285 / 2150
Weight (without option)	kg	1685	1805	1855

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options

2 dampers - for external air inlet
 3 dampers RECO - return EC plug fans included (HPF or LFP) + Recovery
 Anti-vibration mounts
 Clogged filter sensor (1 or 2 stages)
 Compressor soft starter
 Container transportation compatibility
 Dehumidification function
 Electric heater 48 kW
 Energy meter

Accessories and options

Fan speed control
 G4, G4+F7 or G4+F9 filters
 Hot water coil
 Local and additional remote keyboard
 Many aeraulic configurations
 Room temperature sensor
 Sensors (enthalpy, CO₂)
 Smoke detector
 Supply EC LPF plug fans

Accessories supplied loose

P-575505 Kit adjustable roof curb S1R1 - 0/2 Dampers without gas





ECOi-RT C/H · R410A

Rooftop cooling only and reversible units.

Cooling capacity: 48,1 to 219,1 kW.

Heating capacity: 50,7 to 214,4 kW.

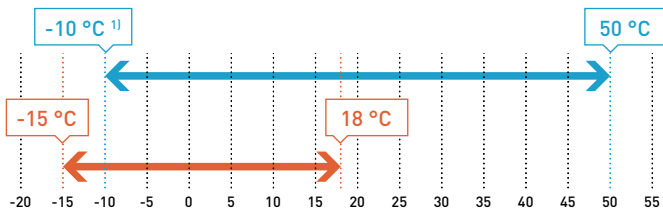


Operating limits

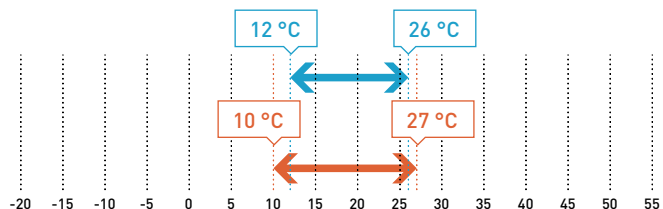
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature (DB).



Temperature before indoor coil ²⁾.



1) Using fan speed control option. 2) Cooling: °C (WB). Heating: °C (DB).

Accessories and options

AC HP plug fan
Anti-vibration mounts
Clogged filter sensor (1 or 2 stages)
Compatible container transportation
Compressor soft starter
EC or EC HP plug fan
Electric heaters
2-dampers configuration including free-cooling/free-heating functions
Epoxy treatment (indoor/outdoor coils)
Fan speed control
G4, G4+F7 or G4+F9 filters
Gas heater

Accessories and options

Hot water coil
Local additional remote keyboard
Many aeraulic configurations (bottom, side, front, top)
Modbus / BACnet
RECO or TRECO energy recovery systems including 3-dampers and exhaust fan
FRECO energy recovery system
Room temperature sensor
Sensors (VOC, enthalpy, CO ₂)
Smoke detector

Accessories supplied loose

P-372062	Kit adjustable roof curb S1R1 - 0/2 dampers with/without gas for sizes 55-80
P-575505	Kit adjustable roof curb S1R1 - 0/2 dampers with/without gas for sizes 95-140
P-575506	Kit adjustable roof curb S1R1 - 0/2 dampers without gas for sizes 160-210
P-374372	Kit adjustable roof curb S1R1 - 0/2 dampers with gas for sizes 160-210
P-372627	Kit adjustable roof curb S1R1 - 3 dampers with/without gas for sizes 55-80
P-372628	Kit adjustable roof curb S1R1 - 3 dampers with/without gas for sizes 95-140
P-372629	Kit adjustable roof curb S1R1 - 3 dampers without gas for sizes 190-210

The range at a glance

- 2 versions: C (cooling only) and H (reversible)
- SEER up to 3,94 and SCOP up to 3,23
- 10 sizes
- Nominal air flow from 9720 to 32000 m³/h
- Additional heaters available
- Many aeraulic configurations
- 2 energy recovery system configurations (RECO and TRECO)

Advantages

- Very high performances: A class EER and COP
- Low energy consumption EC fans
- Wide operating limits
- Thermal/acoustic insulation: double skin (25 mm glasswool)
- 100% factory tested

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of Scroll compressor(s) (2 per circuit from size 160), indoor and outdoor coils, 4 way reversing valve (H type), filter dryer, sight glass, thermostatic or electronic expansion valve (from 160 to 210), high and low pressure switches, defrosting pressure switch, intake temperature sensor, and a liquid accumulation bottle (for sizes from 160 to 210)
- 2 or 4 Scroll compressors - 1 per circuit from 55 to 140 and 2 per circuit for 160 to 210 assembled together in tandem. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment that is isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment applicable to reversible type
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fan(s) are plug type with AC or EC motors; low pressure or high pressure according to the configuration selected by the customer.



Technical features

Size		55	65	80	95	105	120	140	160	190	210
ECOi-RT C EC fan - cooling only	P-RTE****CA	0055	0065	0080	0095	0105	0120	0140	0160	0190	0210
Cooling capacity ¹⁾	kW	49,60	62,80	79,00	89,27	111,08	119,87	142,09	164,98	197,06	219,12
Input power ¹⁾	kW	15,85	19,44	23,24	28,80	33,56	37,10	47,09	51,19	60,61	71,54
EER ¹⁾		3,13	3,23	3,40	3,10	3,31	3,23	3,02	3,22	3,25	3,06
Pdesign ^{2) 3)}	kW	49,57	62,81	79,00	95,10	111,08	119,87	142,09	164,98	197,06	219,12
SEER ^{2) 3)}		3,57	3,58	3,74	3,54	3,66	3,57	3,52	3,91	3,94	3,71
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B	B	B	B	B	B	B	B
η_{s,c} ^{2) 3)}		140	140	147	139	143	140	138	154	154	145
ECOi-RT H EC fan - reversible	P-RTE****HA	0055	0065	0080	0095	0105	0120	0140	0160	0190	0210
Cooling capacity ¹⁾	kW	48,10	61,00	76,70	87,21	107,81	116,34	137,88	160,10	191,21	212,60
Input power ¹⁾	kW	15,82	19,49	23,24	28,97	33,56	37,10	45,69	51,19	60,61	70,47
EER ¹⁾		3,04	3,13	3,30	3,01	3,21	3,14	3,02	3,13	3,15	3,02
Pdesign ^{2) 3)}	kW	48,12	60,95	76,67	92,34	107,81	116,34	137,88	160,10	191,21	212,60
SEER ^{2) 3)}		3,53	3,52	3,63	3,52	3,55	3,52	3,52	3,80	3,82	3,65
Energy efficiency class ^{2) 3)}	A+ to E	B	C	B	C	B	B	B	B	B	B
η_{s,c} ^{2) 3)}		138,12	137,80	142,20	137,80	139,17	138,00	138,00	148,92	149,82	143,15
Heating capacity ¹⁾	kW	50,65	59,65	76,63	90,66	106,95	117,10	148,70	157,90	187,31	214,37
Input power ¹⁾	kW	14,81	17,49	21,77	26,59	30,38	34,14	42,85	46,17	54,29	62,68
COP ¹⁾		3,42	3,41	3,52	3,41	3,52	3,43	3,47	3,42	3,45	3,42
Pdesign ^{2) 3)}	kW	48,00	58,00	67,00	85,00	100,00	112,00	145,00	155,00	180,00	210,00
SCOP ^{2) 3)}		3,20	3,22	3,22	3,23	3,22	3,21	3,20	3,19	3,23	3,19
η_{s,h} ^{2) 3)}		125,00	125,80	125,80	126,20	126,00	125,00	125,00	125,00	126,00	125,00
Electrical data											
Power supply	Voltage	V	400	400	400	400	400	400	400	400	400
	Phase		Three 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	50
Maximum operating intensity	A	46,30	57,60	74,60	83,80	89,80	103,00	123,00	157,80	161,80	178,60
Start intensity (without soft starter)	A	156,10	175,00	184,60	225,80	276,80	290,00	347,00	266,80	303,80	365,60
Start intensity (with soft starter)	A	69,96	85,68	113,60	125,40	139,20	152,40	185,40	198,10	203,40	228,00
Refrigerant and compressors											
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	4 / Scroll	4 / Scroll	4 / Scroll
Mounting type			Single	Single	Single	Single	Single	Single	Tandem	Tandem	Tandem
Capacity steps	%		0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100
Crankcase heater	W		2 x 70	2 x 70	2 x 70	2 x 70	2 x 70	2 x 120	4 x 70	4 x 70	2 x 70 - 2 x 120
Indoor coil											
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			3	3	4	3	4	4	4	6	6
Front surface	m ²		1,50	1,80	2,25	2,25	3,24	3,24	3,24	3,24	3,24
Indoor fan(s) - EC type											
Fan type			Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans			1	1	2	2	2	2	2	2	2
Air flow rate	Minimum	m ³ /h	7760	9200	11440	14000	15600	17200	20400	24000	27500
	Nominal	m ³ /h	9720	11500	14300	17500	19500	21500	25500	28000	32000
	Maximum	m ³ /h	11640	13800	17160	21000	23400	25800	30600	33600	38400
Motor power	kW		3,5	5,7	5,8	7	7	11,4	11,4	13,5	13,5
Outdoor coil											
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			2	2	3	2	3	3	3	2	3
Front surface	m ²		0,76	1,01	1,01	1,50	1,50	1,50	1,50	2,70	2,70
Outdoor fans											
Fan type			Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Number of fans			2	2	2	2	2	2	4	4	4
Diameter	mm		630	710	710	800	800	800	800	800	800
Air flow rate	Nominal	m ³ /h	9800	13000	13000	20000	20000	20000	20000	15500	15500
Motor power	kW		0,62	0,94	0,94	1,65	1,65	1,65	1,65	0,84	0,84
Sound levels											
Sound power (lwo) - outside	C type	dB(A)	80	83	80	85	85	87	91	91	92
	H type	dB(A)	80	83	80	81	85	87	91	91	92
Sound power (lwi) - in supply duct		dB(A)	87	94	89	90	91	95	100	91	92
Dimension and weight											
Length	Total	mm	3250	3250	3250	3740	3740	3740	3740	5505	5505
	Floor	mm	2895	2895	2895	3295	3295	3295	3295	5050	5050
Width	mm		2030	2030	2030	2285	2285	2285	2285	2285	2285
Height	mm		1800	1800	1800	2110	2110	2110	2110	2110	2110
Weight (without option)	kg		1085	1155	1225	1470	1637	1757	1787	2350	2555

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.



ErP: ECOi-RT H and ECOi-RT C 105/160/190/210 need to be equipped with EC fans to be ErP compliant.
Eurovent certification from size 55 to 95.

