

Rooftop Package Units



Rooftops

Rooftop units give you 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.

Quick selection guide

Page	Size	Cooling and heating capacity (kW)	Nominal air flow (m³/h)	Sound power (two - dB(A))	Dimension L x H x W (mm)
NEW ECOi-RT-Z 40-50 H · R32 	40	40.80	7500	—	2484 x 1652 x 1850
		52.00			
	50	50.50	9200	—	2484 x 1652 x 1850
Coming September 2025					
ECOi-RT-Z 105-140 H · R32 	105	106.0	19200	79.8	3740 x 2150 x 2285
	120	119.0	21500	79.8	3740 x 2150 x 2285
	140	139.0	25500	86.1	3740 x 2150 x 2285
ECOi-RT H · R410A 	55	48.1	9720	80	3250 x 1800 x 2030
	65	61.0	11500	83	3250 x 1800 x 2030
	80	76.7	14300	80	3250 x 1800 x 2030
	95	87.2	17500	85	3740 x 2110 x 2285
	105	107.8	19200	85	3740 x 2110 x 2285
	120	116.3	21500	87	3740 x 2110 x 2285
	140	137.9	25500	91	3740 x 2110 x 2285
	160	160.1	28000	91	5505 x 2110 x 2285
	190	191.2	30000	92	5505 x 2110 x 2285
	210	212.6	32000	94	5505 x 2110 x 2285

* Heat pump version with EC fans.



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



Extractable
drain pan

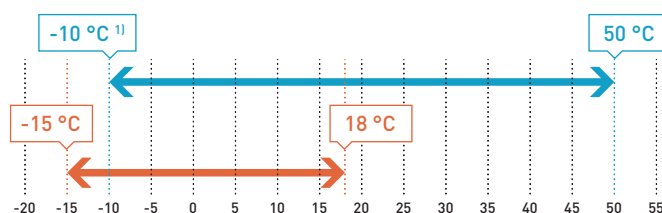


Many configurations
and options

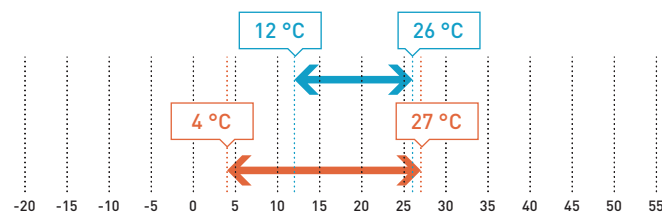
Operating limits

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).

CO₂ carbon footprint reduced by 80%*

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

R32
REFRIGERANT



Size 40 - 50



Size 105 - 140



Size 160 - 210

The range at a glance

- Reversible version
- SEER up to 3.8 and SCOP up to 3.56
- 4 sizes
- Nominal air flow from 19,200 to 25,500 m³/h
- Additional heaters available
- Many supply and return air configurations
- 3 energy recovery system configurations (RECO)

Advantages

- Low GWP R32 refrigerant (GWP = 675)
- Very low sound levels
- Safety ventilation system
- Low energy consumption EC fans
- Thermal/acoustic insulation: double skin (25mm glasswool)
- Dehumidification function (optional)
- 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 or 2 scroll compressors, 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 - 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. 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.

AC SELECT

Smart and user-friendly selection tool. Configure your air conditioning solution at required conditions:
<https://acselect.panasonic.eu/>



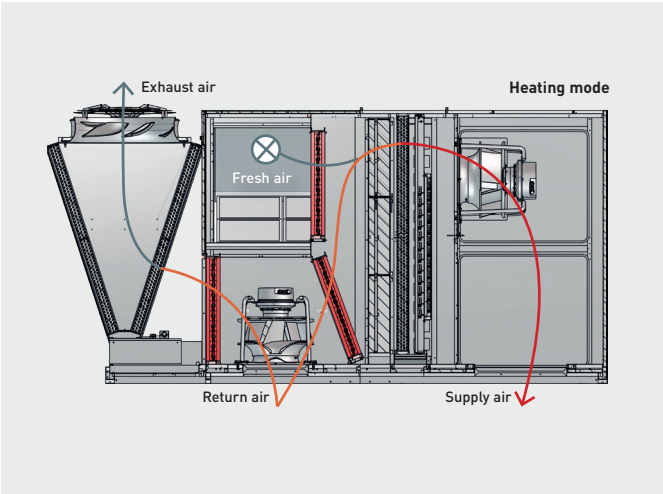
Energy recovery system configurations

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.



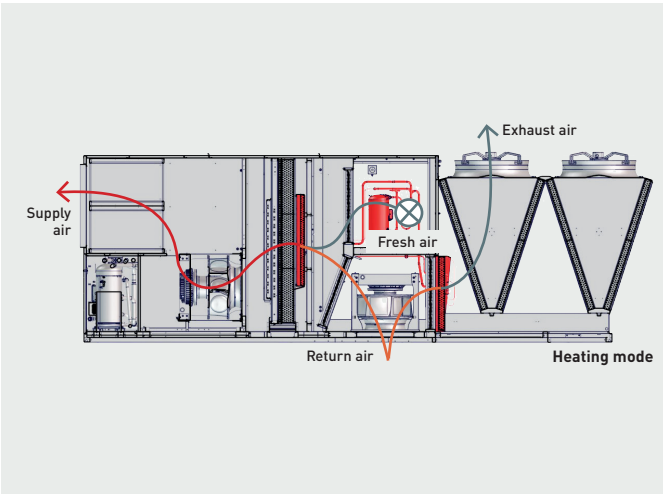
TRECO - thermodynamic energy recovery (3 dampers)

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.

