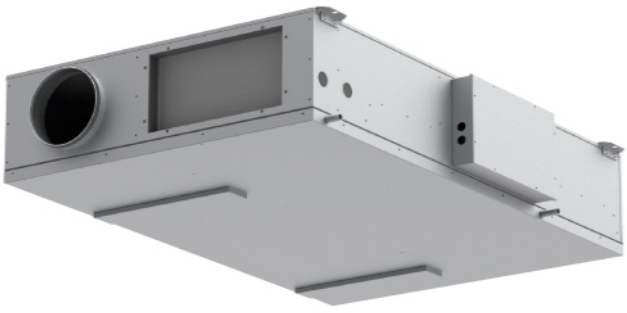
Panasonic

heating & cooling solutions

Energy recovery ventilation with DX coil - HRPT Series for VRF

The HPRT Series is specifically designed for commercial applications or collective residential buildings, offering highly efficient heat recovery of up to 85,2%.

It's an ideal solution to achieve the highest energy certification for buildings in the tertiary, industrial and collective residential sectors including centralized condominium systems.



1. Dual flow ventilation with EC fan, featuring high efficiency heat recovery (>85%η)

2. 5 model line-up is available with air flow rates of 480, 800, 1100, 1500 and 1750m³/h

3. 2 types of polystyrene heat exchanger (high efficiency and sensible) with counter-current flows and integrated bypass as standard

4. Modbus connection available

Energy recovery ventilation

Highly efficient and flexible

The HRPT Series is a dual flow ventilation with an EC fan, ensuring high efficiency heat recovery (>85% η).

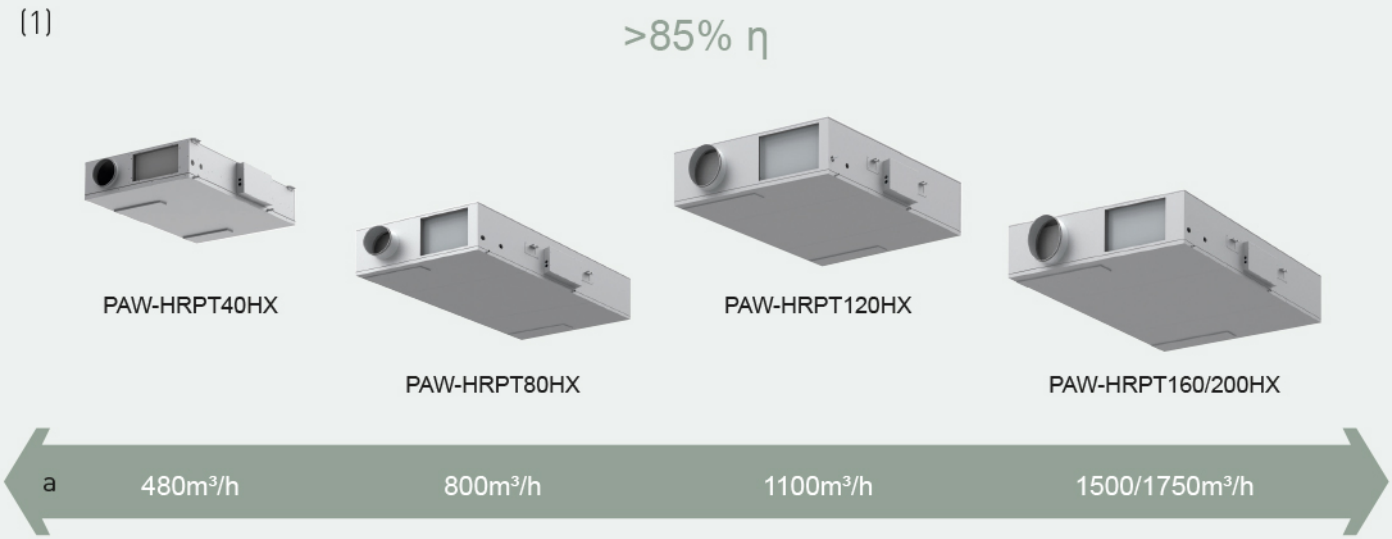
The series includes five models with air flow rates from 480 to 1750m³/h. Two types of polystyrene heat exchangers (high efficiency and sensible) are provided to meet a range of requirements.

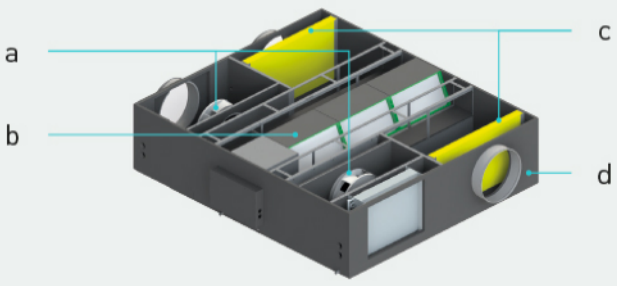
HRPT Series line-up

PAW-HRPT40HX - PAW-HRPT80HX - PAW-HRPT120HX - PAW-HRPT160/200HX (see below in image 1).

a. Air flow rate.

High efficiency heat recovery >85%η

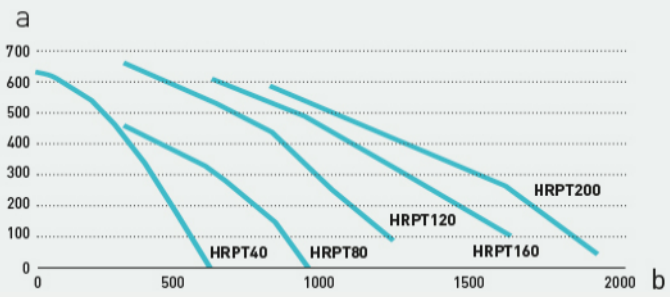




Quality meets efficiency. Explore the HPRT Series

a. Reverse blade radial fans with low-consumption and low-noise electronic motor. b. Highly efficient polystyrene heat exchanger with counter-current flows and integrated bypass as standard. c. Two filters with low pressure drop: F7 (ePM1) on the fresh air and M5 (ePM10) on the ambient air. d. Structure with high thermal insulation.

* Model shown: HRPT120.



Aeraulic performance

EC motors with electronic speed control ensure high values of effective static pressure for ducting.

a. External static pressure (Pa). b. Air flow (m³/h).

Energy recovery ventilation

Two types of heat exchangers:

1. High efficiency heat exchanger type (chart 1)*

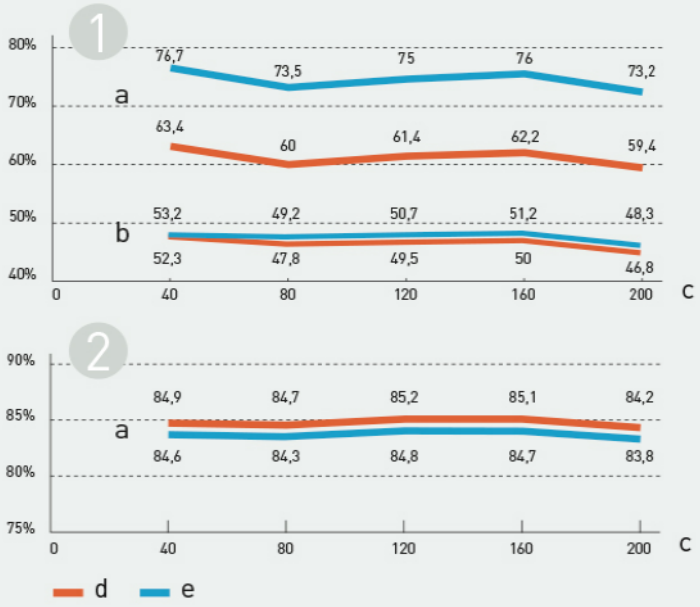
· Recovering both temperature and humidity
· High enthalpy exchange efficiency, average 50% in heating and cooling
· Recovering humidity enhances the cooling performance of VRF

2. Sensible heat exchanger type (chart 2)*

· High temperature exchange efficiency, maximum 84,8% in cooling and 85,2% in heating

a. Temperature exchange efficiency. b. Enthalpy exchange efficiency. c. Size (**). d. Heating. e. Cooling.

* PAW-HRPT**HX.



DX coil total capacity

DX coil total capacity from 3,0 to 12,5kW in cooling and 3,2 to 12,8kW in heating.

1. Cooling (chart 1)*

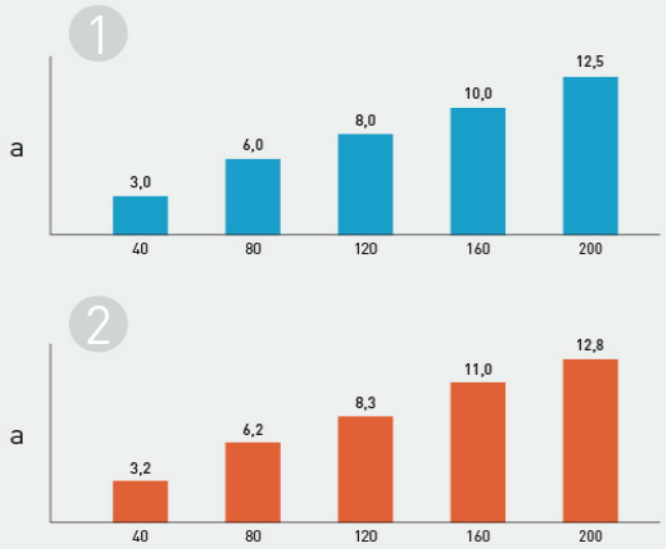
Data according to the following conditions:
· Nominal air flow
· Coil inlet temperature in cooling (summer): 27°C with 48% RH
· Ambient temperature 35°C

2. Heating (chart 2)*

Data according to the following conditions:
· Nominal air flow
· Coil inlet temperature in heating (winter): 20°C with 50% RH
· Ambient temperature 7°C DB / 6°C WB

a. Capacity (kW).

* HRPT size.

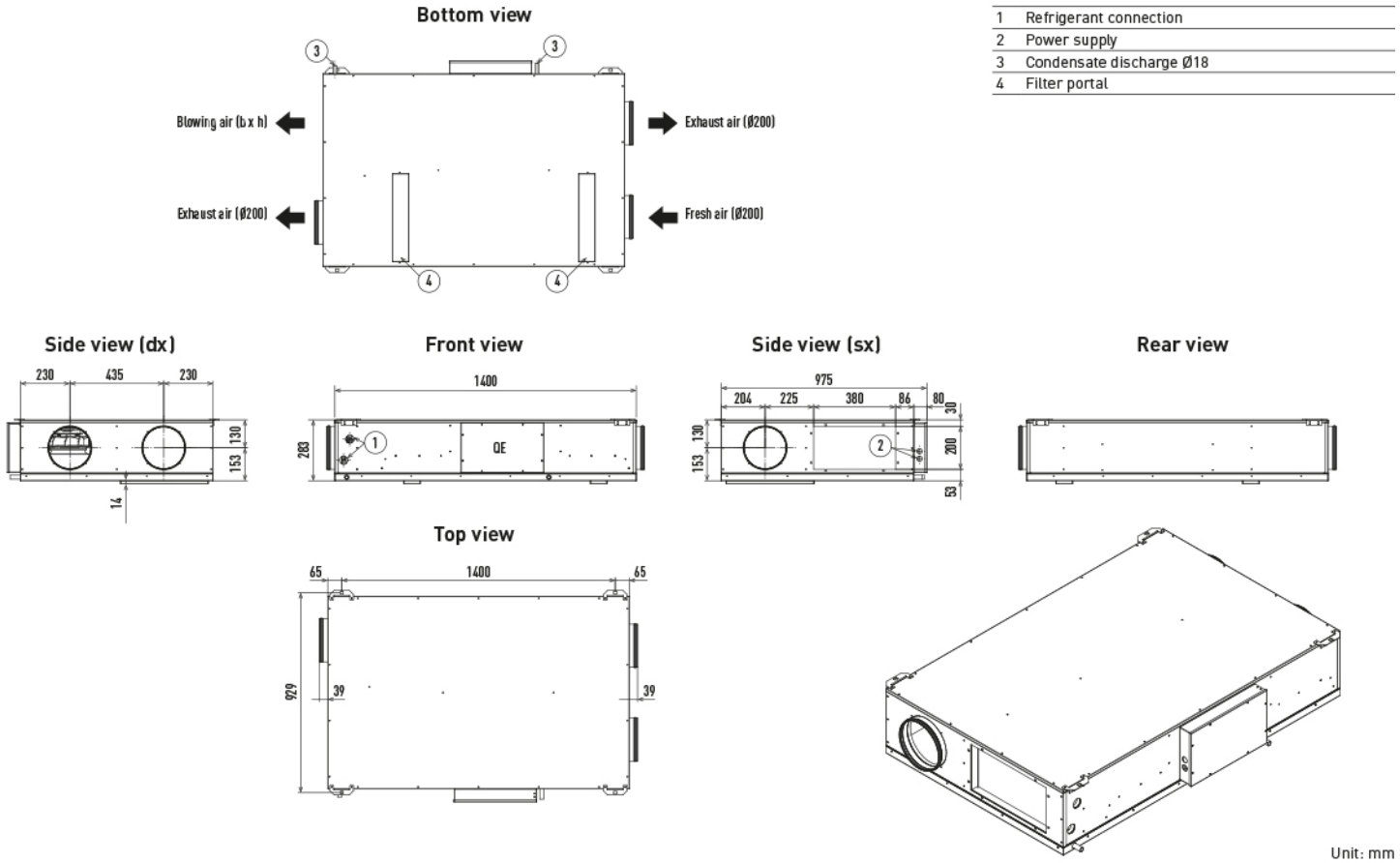


Accessories

1. CZ-RTC6W: CONEX wired remote controller (non-wireless), white.
1. CZ-RTC6WBL: CONEX wired remote controller with Bluetooth®, white.
2. CZ-RTC6: CONEX wired remote controller (non-wireless), black.
2. CZ-RTC6BL: CONEX wired remote controller with Bluetooth®, black.
3. CZ-RTC5B: Wired remote controller with Econavi function.
4. CZ-RWS3 + CZ-RWRC3: Infrared remote controller and receiver.
5. PAW-RE2C4-MOD-WH: Room controller for hotel rooms, white.
5. PAW-RE2D4-WH: Display control for hotel rooms, white.
6. PAW-RE2C4-MOD-BK: Room controller for hotel rooms, black.
6. PAW-RE2D4-BK: Display control for hotel rooms, black.

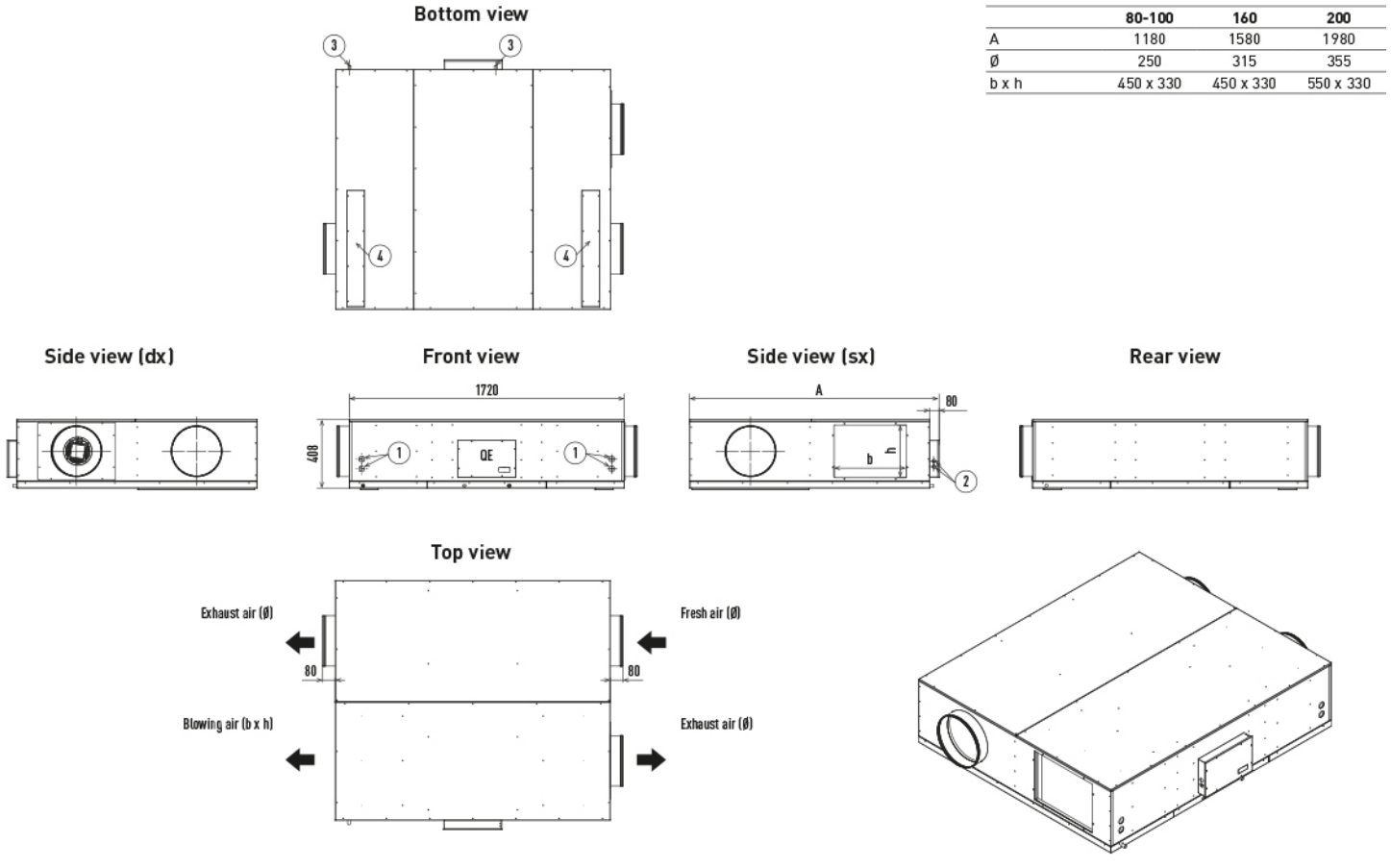
Dimensions

ERV with DX coil - HRPT Series - PAW-HRPT40HX.



1	Refrigerant connection
2	Power supply
3	Condensate discharge Ø18
4	Filter portal

ERV with DX coil - HRPT Series - PAW-HRPT80HX / PAW-HRPT120HX / PAW-HRPT160HX / PAW-HRPT200HX.



	80-100	160	200
A	1180	1580	1980
Ø	250	315	355
b x h	450 x 330	450 x 330	550 x 330