

EVHRP-PS High efficiency heat recovery unit for flow rates from 150 up to 500 m³/h



Description

Ventilation unit with very high efficiency heat recovery, compact size for ceiling, wall or floor installation. The unit is particularly suitable for individual family units, flats and in all cases where the nominal air exchange rates are less than 500 m³/h. Tested and classified according to the European Ecodesign regulation ref. 1253/2014 and 1254/2014.

Characteristics

- Galvanised sheet metal self-supporting frame painted RAL9003 on the outside, shaped EPS internal structure with density 40kg/m³, compact size and reduced height for easy installation with lower panel easily accessible for maintenance and inspections.
- Very high efficiency polypropylene static heat exchanger with counter-current flows.
- Backward-curved radial centrifugal fans with EC motors with electronic speed control and low energy consumption.
- Filters class ePM1 70-80% with low pressure drop.
- Motorised bypass with motor inserted in the electrical panel for easy maintenance.



Control electronics

Version IN2: with electronic board for 3-step speed management, antifreeze function and automatic bypass. Wall-mounted remote touch panel on 503 box. On-board temperature sensors and possibility of managing auxiliary hot water coil. Humidity / air quality regulators built into the remote display. EVCNV2-N: advanced remote control with built-in humidity and VOC/CO₂ sensors, black. EVCNV2-B: advanced remote control with built-in humidity and VOC/CO₂ sensors, white. EVCNV2-N: advanced remote control with built-in humidity and VOC/CO₂ sensors and built-in Wi-Fi, black. EVCNV2-B: advanced remote control with built-in humidity and VOC/CO₂ sensors and built-in Wi-Fi, white. Version E: with electronic board for 3-step speed management, antifreeze function and automatic bypass control. Sensors on all four sides to display the heat recovery efficiencies and antifreeze and bypass algorithms. Possibility of adjusting each speed of each fan to balance the system. Humidity / air quality regulators or Booster input.

Configurations

Configurations A or B selectable by electronics.

Use

Houses, surgeries and shops for air exchange with up to 90% reduction in energy waste.

On request

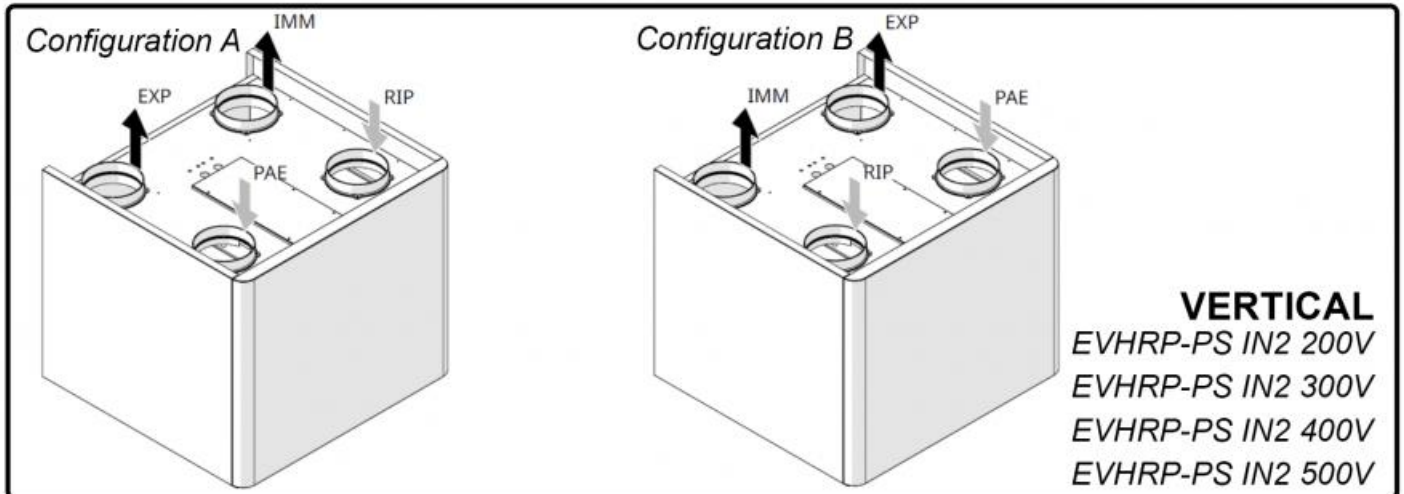
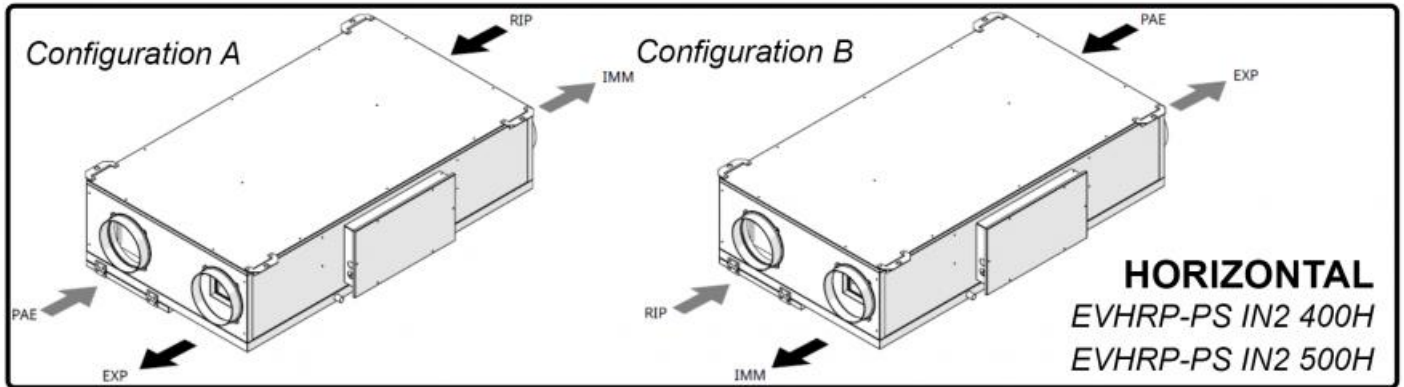
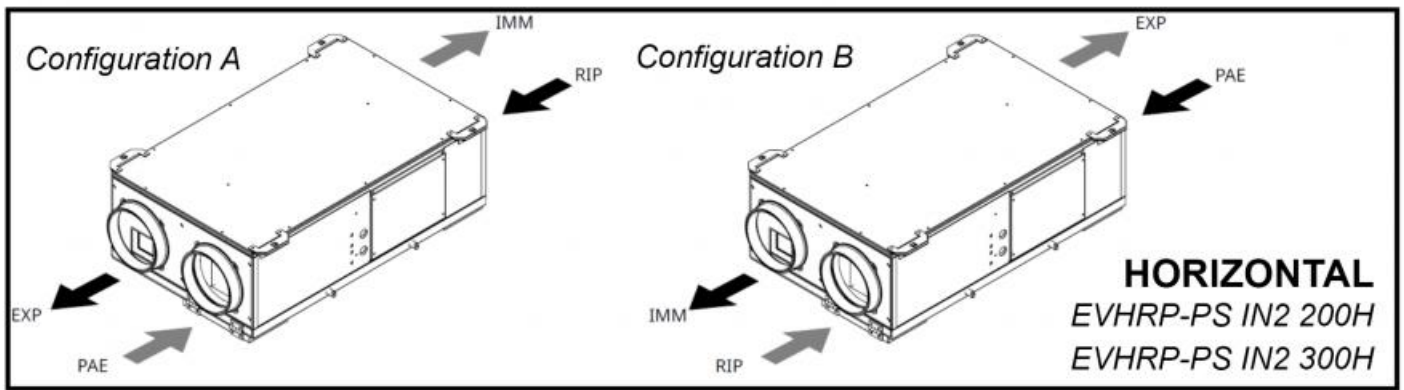
Version with enthalpy exchange pack.

Technical specifications

EVHRP-PS size		200 H	200 V	300 H	300 V	400 H	400 V	500 H	500 V
Type of Fans		Backward-curved radial - direct-coupled electronic motor - 0/10 V signal							
Number of Fans	Nr.	2							
Air flow rate	m ³ /h	155	160	300	300	340	380	455	450
Useful pressure	Pa	100	100	100	100	100	100	100	100
Heat exchanger (Data referring to the UNI EN 13141-7 Standard		Indoor temp. 20° - Indoor humidity 28% - Outside temp. 7° - Outside humidity 72%)							
Type of heat exchanger		Counter-current plates - polypropylene							
Number of Heat exchangers	Nr.	1							
Heat recovery efficiency	%	86,0	86,0	85,0	86,0	89,0	87,0	88,0	86,0
Type of filters		Filters							
Filtration class		Flat filters ePM1 70-80%							
Acoustic data (Data referring to the UNI EN 3741 and UNI EN 3744 Standards)									
Sound pressure at 3 m	dB(A)	35,0	34,0	37,0	36,0	39,0	38,0	43,0	40,0
Electrical Data									
Power supply	V / ph / Hz	230 / 1 / 50							
Current consumption	A	0,7	0,7	1,6	1,6	1,6	1,6	2,5	2,5
Power consumption	W	110	110	180	180	350	350	420	420
Protection rating	IP	X2							
Dimensional data									
Width	mm	487	630	590	787	708	787	708	787
Length	mm	793	-	789	-	1147	-	1147	-
Depth	mm	-	475	-	619	-	749	-	749
Height	mm	273	570	318	670	303	670	303	670
Weight	kg	26,0	32,0	31,0	38,0	39,0	42,0	40,0	43,0
Connection diameter	mm	160	160	160	160	160	160	160	160
Condensate drain	mm	12	20	12	20	12	20	12	20
classification of the various models according to the European regulation 1253/2014 and 1254/2014									
With remote control EVCNV2 - EVCNV2 (UR/VOC-Co2)		-	A	A	A	A	A	A	A

Configurations

Units are shown top view.
Standard configuration A.



Heat recovery units price list

Standard versions A

Item normally available from stock	
model	versione IN2 adjustable + Bypass euro
200 H	2728,57 ✓
200 V	2728,57 ✓
300 H	3022,01 ✓
300 V	3114,74 ✓
400 H	3508,53 ✓
400 V	3408,18 ✓
500 H	3701,61 ✓
500 V	3601,26 ✓

IN2 adjustable + Bypass

Item normally available from stock					
model	remote electronic control EVCNV2-N. Black	remote electronic control EVCNV2-B. White	EVCNW2-N remote electronic control with Wi-Fi connection. Black	EVCNW2-B remote electronic control with Wi-Fi connection. White	Feet for floor installation (only for vertical configuration)
	euro	euro	euro	euro	euro
200	230,88 ✓	230,88 ✓	285,05 ✓	285,05 ✓	110,81 ✓
300	230,88 ✓	230,88 ✓	285,05 ✓	285,05 ✓	110,81 ✓
400	230,88 ✓	230,88 ✓	285,05 ✓	285,05 ✓	110,81 ✓
500	230,88 ✓	230,88 ✓	285,05 ✓	285,05 ✓	110,81 ✓



Spare filters list

Item normally available from stock				
models	pair of filters for HORIZONTALversion		pair of filters for VERTICALversion	
	dimensioni	euro	dimensioni	euro
EVHRP-PS 200	175x225x23	71,14 v	175x225x23	71,14 v
EVHRP-PS 300	175x270x23	80,03 v	175x335x23	80,03 v
EVHRP-PS 400	255x263x23	104,16 v	175x465x25	109,24 v
EVHRP-PS 500	255x263x23	104,16 v	175x465x25	109,24 v