

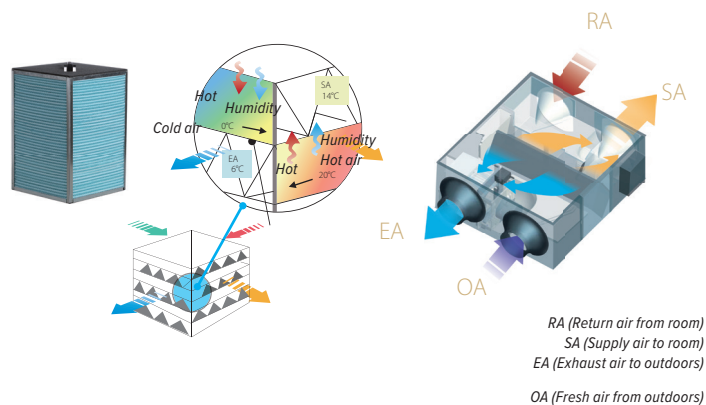
HRV

HRV-3 D200÷D2000



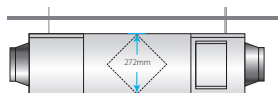
ENHANCED EFFICIENCY

The heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations that come with the ventilation process. The HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control, while improving comfort levels too.



FLEXIBILITY AND LOW NOISE

Heights starting from as low as 272 mm and weights from as low as 51 kg mean that HRV can be easily installed even where space is limited. Soundproofing is used to guarantee quiet operation.



ECO-DESIGN

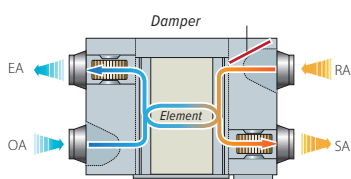
The unit complies with regulation (EU) 1253/2014 requirements for ventilation units.



MULTIPLE OPERATING MODES

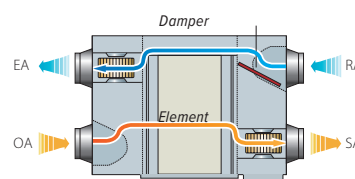
Heat exchange mode

The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.



Bypass mode

In mild climates or seasons, where temperature and humidity differences between indoors and outdoors are small, the HRV can work as a conventional ventilation fan bypassing the heat exchanger core. In standard bypass mode the supply and exhaust fans run at the same speed.



Auto mode

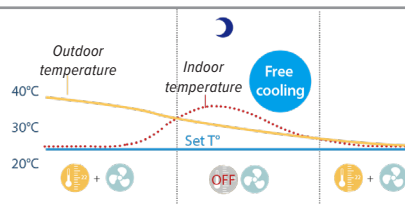
The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoors and indoors. Both fans are regulated automatically.

Positive and negative pressure modes

These modes allow to control room pressure balance. In positive pressure mode the supply fan is set to run faster than the exhaust fan, in negative pressure mode is the opposite.

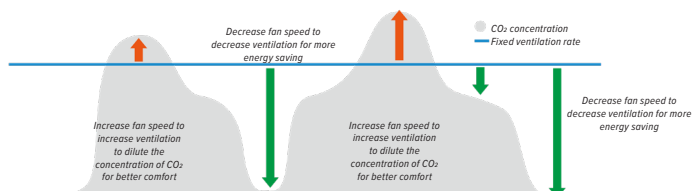
FREE COOLING MODE

During Summer, when outdoor temperature is lower than indoor temperature like at night, free cooling mode allows to cool down the rooms reducing the running costs.



INTEGRATED CO₂ SENSOR

The built-in CO₂ sensor allows to activate a specific function, which automatically manages the unit regulating the fan speed as a function of the detected indoor air quality. In this way, the proper air renewal is automatically provided depending on the actual needs.



HIGH FILTRATION GRADE

In addition to the G4 filter included as standard inside the unit, is also possible to install a F7 filter on supply air side to maximize indoor air quality.

SMART INPUT/OUTPUT CONTACTS

Practical connectors are available as standard on the electronic boards to manage the following:
INPUT: remote on/off and forcing negative pressure operation
OUTPUT: alarm and preheating activation.

UNIFIED AND FLEXIBLE CONTROL

In addition to the independent control by its own remote controller, the unit can be managed also at a system level along with other indoor units via third generation centralized controller.



technical data

HRV-3 D200÷D2000



HRV - HEAT RECOVERY VENTILATOR

Size	HRV-3	D200	D300	D400	D500	D800	D1000	D1500	D2000
Nominal air flow	m ³ /h	200	300	400	500	800	1000	1500	2000
External static pressure	Pa	100	90	100	90	140	160	180	200
Power input	W	70	100	110	150	320	380	680	950
Current	A	0,64	0,84	0,97	1,2	2,4	2,9	3,8	5,7
Temperature exchange efficiency ⁽¹⁾	%	79,5	75,7	77,7	80,6	78,7	82,8	75,5	77,2
Enthalpy exchange efficiency ⁽¹⁾	%	75,0	72,1	73,5	74,0	72,3	76	69,4	74,7
Dimensions (Width x Height x Depth)	mm	1195x272x784	1195x272x898	1276x272x1189	1311x390x1090	1311x390x1270	1311x390x1510	1740x615x1344	1811x685x1545
Fresh Air Diameter	mm	Ø 144	Ø 144	Ø 198	Ø 244	Ø 244	Ø 244	346x326	346x326
Weight	kg	51	57	72	62	77	85	168	195
Sound pressure level ⁽²⁾	dB(A)	33/29.5/25.5	36.5/33.5/30	36.5/32/28	36/30.5/24.5	42/39/34	44/39/33.5	51.5/46.5/41.5	53/48.5/42.5
Sound power level ⁽²⁾⁽³⁾	dB	45	48	48	50	55	54	69	70
Operating temperature range ⁽⁴⁾	°C	-7 ~ 43	-7 ~ 43	-7 ~ 43	-7 ~ 43	-7 ~ 43	-7 ~ 43	-7 ~ 43	-7 ~ 43
Power supply		220-240/1~/50							

For HRV-3 D200~D2000, 3 fan speeds are available (Hi, Med, Low).

The parameters in the table are measured at high fan speed and with standard G4 filter, please refer to the technical manual for data at other conditions.

(1) Sizes D200: indoor air temperature 20°C DB/12°C WB; fresh air temperature 7°C DB. Sizes D300-2000: Indoor air temperature 25°C DB/14°C WB; Fresh air temperature 5°C DB.

(2) Sound levels are measured 1,5 m below the center of the unit in an anechoic room.

(3) Data refer to the 3 fan speeds, in descending order.

(4) DB temperatures with 80% RH or less.

accessories

WDC3-86S2

Wired controller

HRV200(B)-GLW(F7)

F7 filter (size D200)*

HRV300(B)-GLW(F7)

F7 filter (size D300)*

HRV400(B)-GLW(F7)

F7 filter (size D400)*

HRV500(B)-GLW(F7)

F7 filter (size D500)*

HRV800(B)-GLW(F7)

F7 filter (size D800)*

HRV1000(B)-GLW(F7)

F7 filter (size D1000)*

HRV1500(B)-GLW(F7)

F7 filter (size D1500)*

HRV2000(B)-GLW(F7)

F7 filter (size D2000)*

*2x F7 filters are necessary for size D200, 4x F7 filters are necessary for sizes D300-D2000

Data contained in this document are not binding and may be changed by the Manufacturer without notice

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