

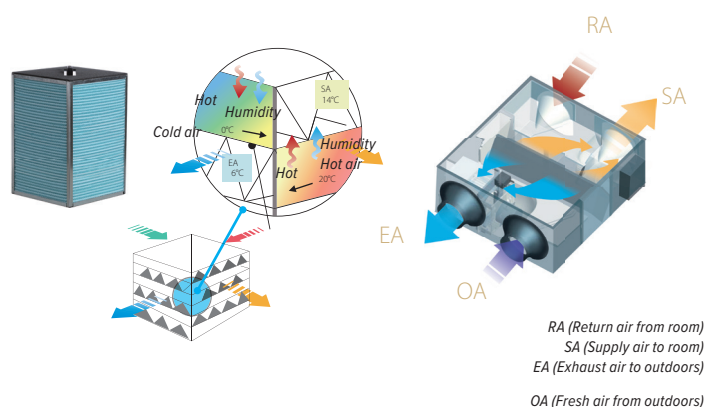
HRV

HRV-2B-Mi D200÷D2000



ENHANCED EFFICIENCY

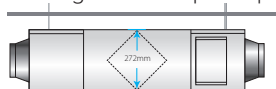
The heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations caused by the ventilation process. The HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control. Exchange efficiencies are over 80%.



FLEXIBILITY AND LOW NOISE

Heights starting from as little as 272 mm and weights from as little as 53 kg mean that the HRV can be easily installed even where space is limited.

Soundproofing is used to guarantee quiet operation.



ECO-DESIGN

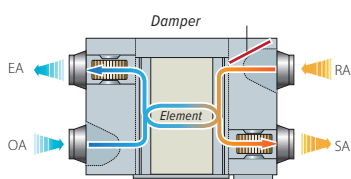
The unit complies with regulation (EU) 1253/2014 requirements for ventilation units.



MULTIPLE OPERATING MODES

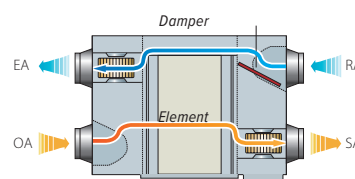
Heat exchange mode

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.



Air supply mode

Air supply mode is a form of bypass mode where the supply fan is set to run faster than the exhaust fan, which is useful in mild climate installations with high fresh air ventilation requirements.

Auto mode

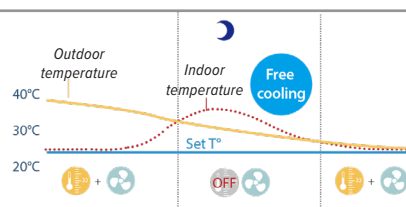
The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoors and indoors. Supply and exhaust fans speeds are regulated automatically.

Exhaust mode

Exhaust mode is a form of bypass mode where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

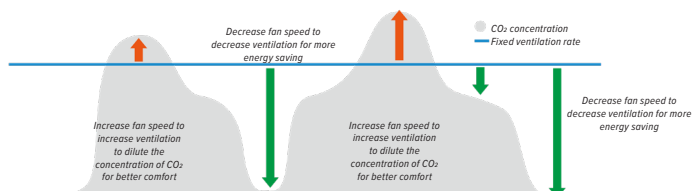
FREE COOLING MODE

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 in the unit, where required it is possible to install a F7 filter available as an accessory to maximize the indoor air quality.

SMART INPUT/OUTPUT CONTACTS

Practical connectors are available as standard on the electronic board of the unit to allow field operations with other devices according to user needs. The available contacts are remote on/off and negative pressure operation forcing as inputs to the unit. And alarm, fan status, and preheating activation as outputs.

UNIFIED AND FLEXIBLE CONTROL

HRV unit can now be managed by the same wired controller available for other VRF second generation indoor units, with the possibility to manage further advanced modes (including interlock with other indoor units, group control and weekly schedule).

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 second generation centralized controller.



technical data

HRV-2B-Mi D200÷D2000



HRV - HEAT RECOVERY VENTILATOR

Size	HRV-2B-Mi	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	75,5	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	76,0	69,4	74,7
Dimensions (Width x Height x Depth)	mm	1195x272x801	1195x272x914	1276x272x1204	1311x390x1106	1311x390x1286	1311x390x1526	1740x615x1375	1811x685x1575
Fresh Air Diameter	mm	Ø 144	Ø 144	Ø 198	Ø 244	Ø 244	Ø 244	346x326	346x326
Weight	kg	53,6	59	71,5	74,4	80	90	181,5	208,5
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	V/Ph/Hz	220-240/1~/50							

For HRV-2B-Mi 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

WDC-120G/WK

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 sizes D200-D300, 4x F7 filters are necessary for sizes D400-D2000

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

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