

General description

HRV 5

FUNCTION

HRV 5 is the perfect ventilation solution to create and maintain a healthy living environment.

The HRV 5 unit is supplied as standard with a user-friendly wireless remote control in a modern design.

APPLICATION

HRV 5 is particularly suitable for apartments and 1 or 2 bedroom homes of between 80 and 200 m² where an air change rate of 0.5/hour is required.

INSTALLATION

The HRV 5 compact dimensions ensure that it can be placed instead of a standard 60 cm wide wall unit closet.

The HRV 5 can be installed in a utility room or cupboard and controlled anywhere in the home using the wireless remote.

CHARACTERISTICS

- Wireless remote control
- High efficiency of up to 80%
- Variable air volume with 3 speed settings
- Week programmer
- Summer mode

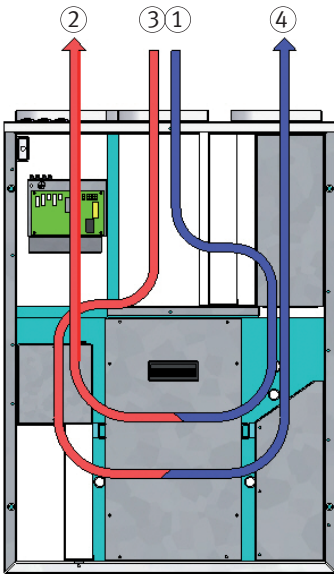
WIRELESS REMOTE CONTROL

The wireless remote control communicates via an antenna signal and has an operating range of approx. 100m (free field).

The remote control enables the user access to the following key functions:

- Week programmer – set different air volumes for different time periods
- 3 speed fan speed / air volume settings
- Summer mode
- Filter change timer with alarm
- Running data readout



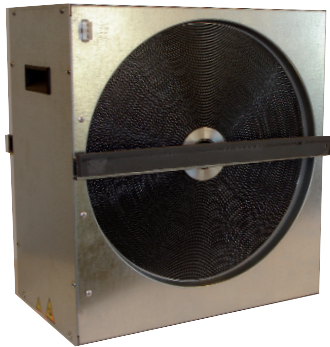


OPTIONAL HYGROSTAT

If an optional hygrometer (see accessories) is connected, the unit will increase to fan speed 3 when the set relative humidity value is exceeded. The unit will return to the original fan speed when the humidity level has been reduced.

ILLUSTRATION OF AIR FLOW IN HRV 5

- 1 Fresh air intake
- 2 Supply air
- 3 Return air
- 4 Exhaust air



ROTARY HEAT EXCHANGER

The HRV 5 is fitted with a rotary heat exchanger. In a rotary heat exchanger heat is transferred from the extract air to the metallic surface of the rotor, which finally transfers the heat to the supply air.

The rotary heat exchanger is a particularly good solution at temperatures below 0°C as unlike traditional crossflow and counterflow heat exchangers, there is no risk of ice formation. As a result no preheating is required which makes the rotary heat exchanger an energy-friendly solution with very low running costs.

The rotary wheel is stopped in summer mode to provide fresh air cooling during the night. This is automatically activated when the outdoor temperature exceeds a pre-set value and therefore heat recovery is not required.

PART NUMBERS

Standard model

HRV 5 unit plus remote controller

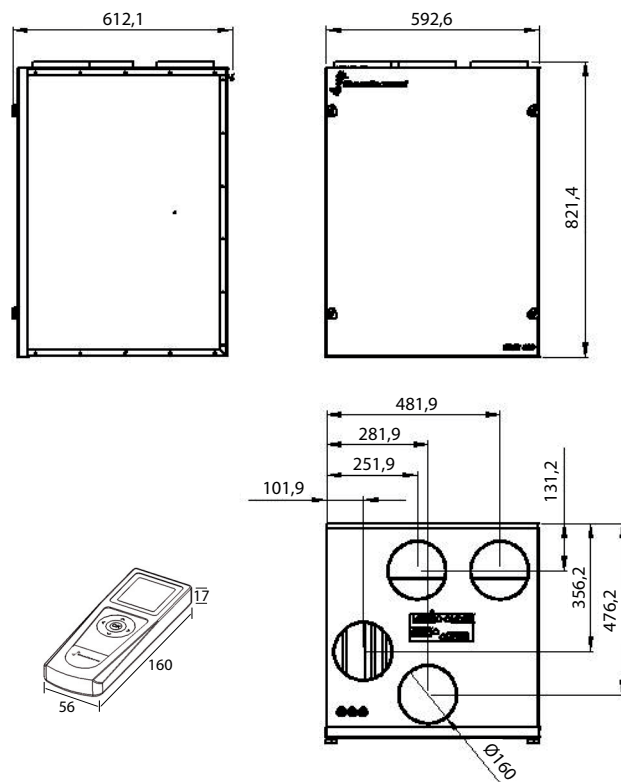
Dantherm nr. 026836

Technical data

Heat exchanger type		Rotary heat exchanger
Efficiency	%	Up to 80%
Max. air volume	m ³ /h	340m ³ /h at 150 Pa
Power supply	V/Hz	230 V/50Hz
Operating temperature range	°C	-20 to +50
Max. power consumption with and without electric heating element*	Watt	900/270
Sound level (1 meter from the cabinet)		
- at 1000 r.p.m.	dB(A)	43,6
- at 1500 r.p.m.	dB(A)	45,7
- at 2000 r.p.m.	dB(A)	49,8
Weight	kg	55
Colour	RAL	9016
Protection class		IP 44
Duct connection	mm	Ø160
Filter type	F/G	G4 extract and F7 supply air
Material, cabinet		Powder painted hot galvanized steel
Material, remote control		ABS plastic

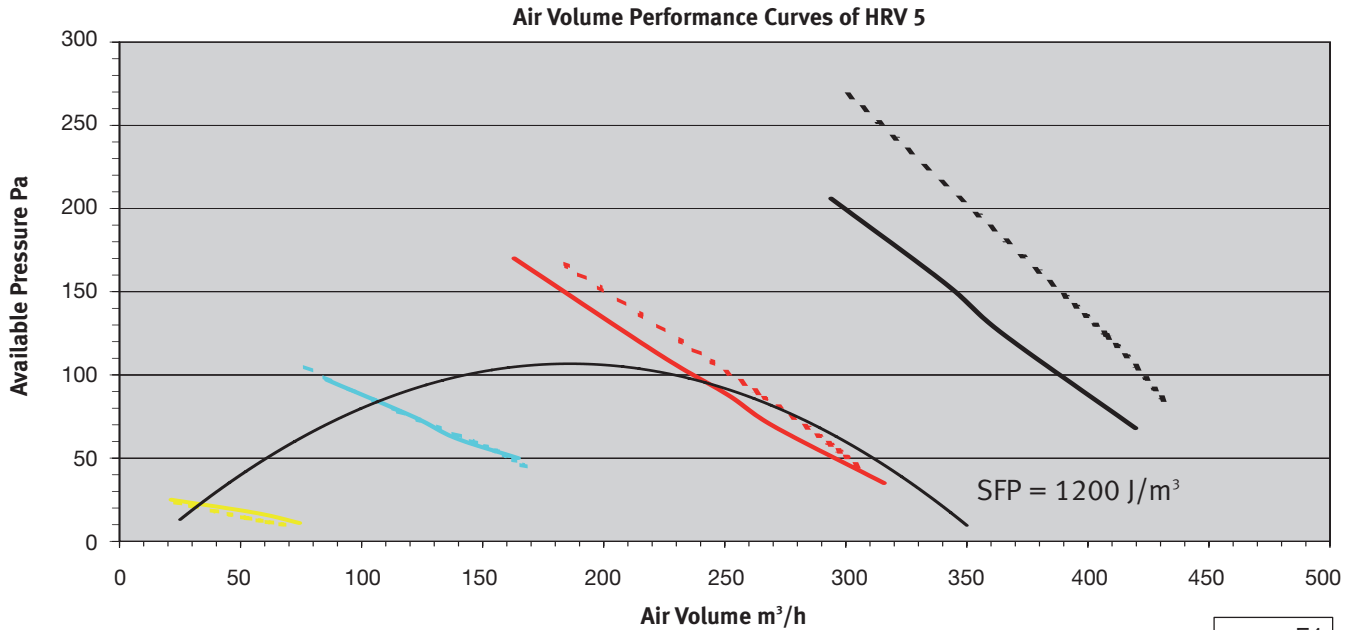
*incl. rotor motor

DIMENSIONS



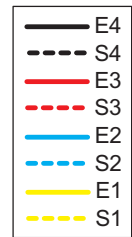
All dimensions are in mm.

PERFORMANCE CURVES



E4=exhaust 100% air volume
 E3=exhaust 70% air volume
 E2=exhaust 50% air volume
 E1=exhaust 25% air volume

S4=supply 100% air volume
 S3=supply 70% air volume
 S2=supply 50% air volume
 S1=supply 25% air volume



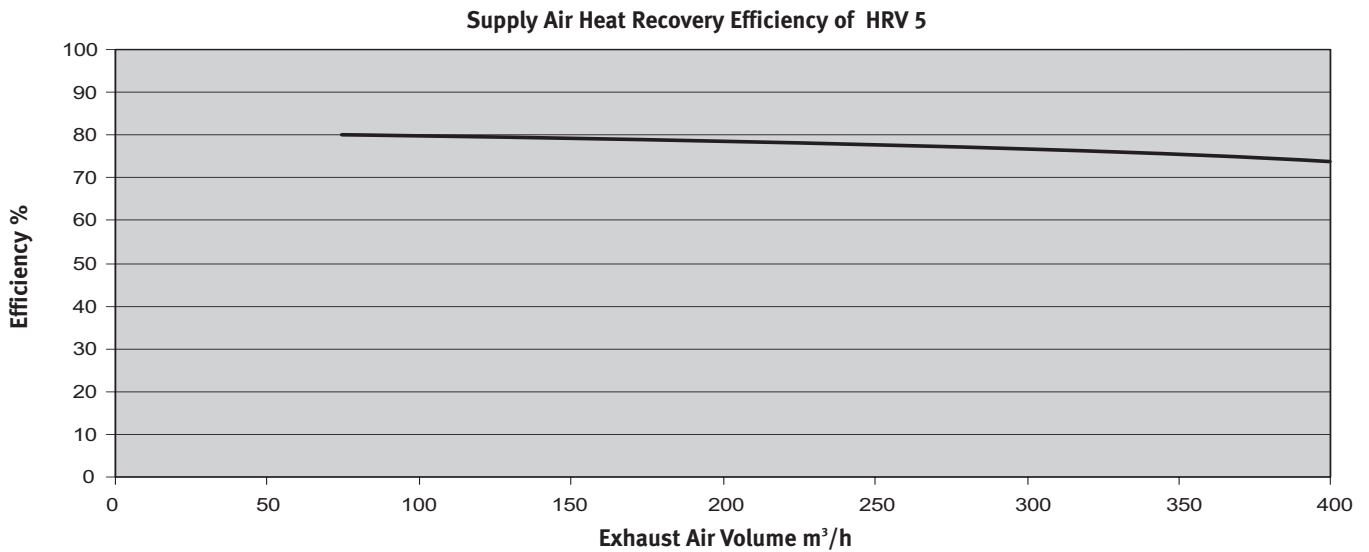
Please note:

HRV 5 has three different settings for air volume, where each setting can be set between 25 and 100%.

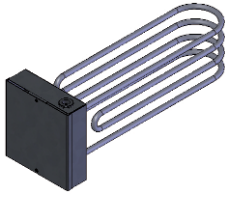
The performance curves for max. air volume (E4; S4) shown are not the factory setting. The factory setting corresponds to approx. 70% of the stated max. air volume (E3; S3).

The performance curves E2; S2 (= 50% air volume) and E1; S1 (= 25% air volume) correspond to the factory setting for these two air volumes.

TEMPERATURE EFFICIENCY



Conditions: $t_{\text{fresh air}} = 4^{\circ}\text{C}$, $t_{\text{return air}} = 20^{\circ}\text{C}$ and $\text{RH}_{\text{return air}} = 50\%$.



ELECTRIC HEATING ELEMENT, 630W

With an electrical heating element installed, the supply air temperature can be increased by approx. 7-8°C (at 200 m³/h). The heater capacity is modulating from 63 to 630W to provide stable supply air temperatures.

When the heating element is active it will be indicated on the remote control.

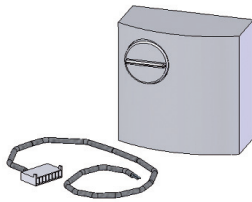
Dantherm No. 041711



ADDITIONAL REMOTE CONTROL

The unit can be paired with additional remote controls to give flexibility.

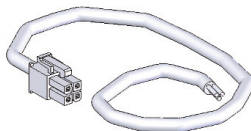
Dantherm No. 041709



HYGROSTAT (INCL. 3 M CABLE)

The hygrostat can be mounted in bathrooms to provide boost dehumidification after showering. With this function the unit will run on maximum speed when the hygrostat detects high RH.

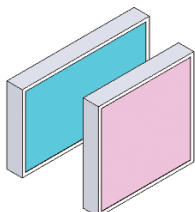
Dantherm No. 041704



ALARM CABLE

Used for the optional connection of external light or audible alarms to alert the user in the event of unit component failures. Alarm accessories are not available from Dantherm. Cable length 3,5 m, Mini-Fit Jr. connector.

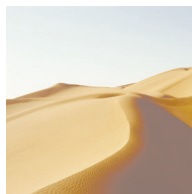
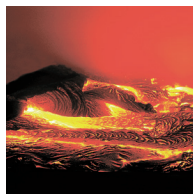
Dantherm No. 041708



FILTERS

To ensure optimal performance of the unit filters should be changed regularly. The filter pack contains one F7 supply air filter and one G4 extract air filter.

Dantherm No. 031831



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Our core business areas are dehumidification, heating, air conditioning, ventilation and electronics cooling. Innovative, durable and cost-efficient products have secured us a position as a leading global manufacturer of stationary and mobile climate control units. And we are forever pursuing new techniques that will improve our solutions and ultimately your projects.

Our Head Office is located in Denmark, and we have companies in Denmark, Norway, Sweden, the United Kingdom, the United States and China, with an extensive European dealer network.

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