

Technical Data Sheet

CODE 12101

VORT HR 450 AVEL D

Wall-mounting residential heat recovery unit



Certifications



Passiv Haus

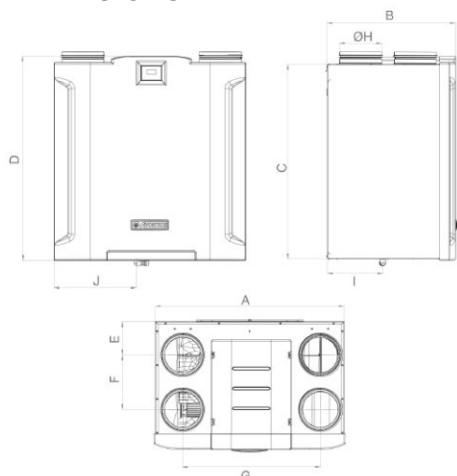


UKCA

TECHNICAL AND PERFORMANCE DATA

Filter class on extract	G4	Weight (Kg)	40
Filter class on supply	G4	Breakout sound power LWA [dB(A)]	47,2
Frequency (Hz)	50-60	Breakout sound pressure at 3m at Max speed Lp [dB (A)]	26,7
Insulation class	I°	Max airflow (l/s)	110
IP	X2	Max airflow (m³/h)	400
Max absorbed current (A)	2,75	Max pressure (mmH2O)	69
Max absorbed power (W)	350	Max pressure (Pa)	680
Nominal current (A)	1,80	Max thermal efficiency (%)	90,4
Nominal diameter (mm)	160	Sound power at exhaust inlet LWA [dB(A)]	45,7
Nominal power (W)	230	Sound power at supply outlet LWA [dB(A)]	61,5
Voltage (V)	220-240	Sound pressure at 3m at Max speed at extraction side Lp [dB (A)]	25,2
		Sound pressure at 3m at Max speed at supply side Lp [dB (A)]	41,0

DIMENSIONS



Size A (mm)	708
Size B (mm)	480
Size C (mm)	730
Size D (mm)	766
Size E (mm)	125
Size F (mm)	205
Size G (mm)	516
Size H (mm)	Ø
	158
Size I (mm)	207
Size J (mm)	308

PER INFORMAZIONI / FOR INFORMATION

ITALY

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Technical Dept:

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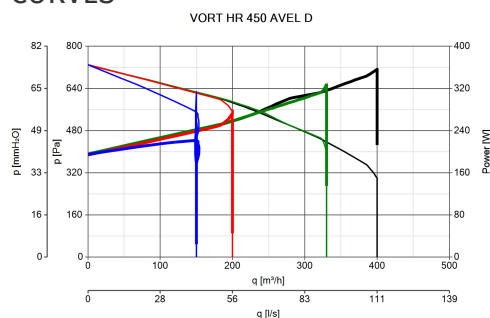
Wall-mounting residential heat recovery unit



DESCRIPTION

- Galvanized and painted sheet steel enclosure.
- Aesthetic front panel made of plastic resin (ABS).
- Internal components made of EPP.
- Round duct connection ports, nominal diameter 160 mm.
- 2 EC (brushless) motors, external rotor, controlled at constant airflow (CAV), with shaft turning in ball bearings to grant a "maintenance free" functioning, each coupled to a forward curved centrifugal impeller; 4 speeds, independently adjustable at the installation.
- High efficiency counter-flow heat exchanger in PS resin.
- Automatic, 100% filtered, mechanic by-pass, granting people comfort in the rooms in mid-season or when the outside temperature does not require the action of the heat exchanger.
- Automatic frost-protection to prevent icing on the heat exchanger.
- 3 x ISO Coarse 90% (G4) filters, respectively on extraction, supply ports and for the by-pass. ePM10 50% (M5) and ePM1 55% (F7) filters available as optional per the supply port and for by-pass.
- Condense water tray with discharge pipes.
- Wired control panel with LCD display, which allows:
 - to switch on / off the unit;
 - the first set-up;
 - to set the speed;
 - to set the weekly timer;
 - to monitor the correct product operation (any faults are shown on the display);
 - to show the product functioning (speed set, by-pass status, defrosting activation, pre and/or post heaters activation if installed);
 - to show the filters status.
- Brackets for wall-mounted installation supplied as standard.
- Possibility of connection to environmental external sensors (available as optional), for automatic functioning control.
- Possibility of integration in home automation environment through ModBus protocol.

CURVES



ACCESSORIES



C SMOKE

Code 12993



C HCS

Code 12994



ELECTRIC HEATER 1200

Code 21622



PER INFORMAZIONI / FOR INFORMATION

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Code 21628



**FTR EPM10
50% (M5)
398X184X21**
Code 21625



**FTR EPM1 55%
(F7) 418X44X21**
Code 21626



**FTR EPM10
50% (M5)
418X44X21**
Code 21627



NA 160 PHI
Code 21643



CB LCD D
Code 21381



**CB TOUCH LCD
W**
Code 21933