Technical Data Sheet

CODE 12101

VORT HR 450 AVEL D

Wall-mounting residential heat recovery unit

Certifications

CE

Passiv Haus

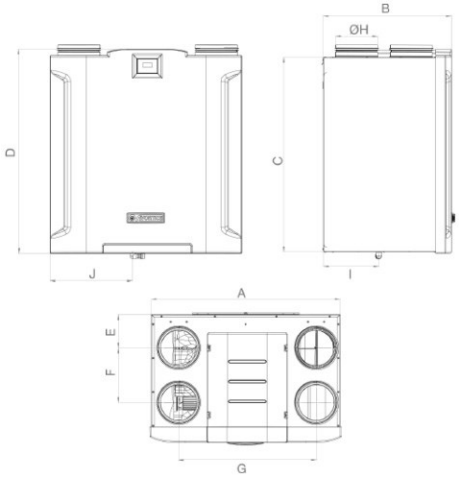
UKCA

TECHNICAL AND PERFORMANCE DATA

Filter class on extract	G4
Filter class on supply	G4
Frequency (Hz)	50-60
Insulation class	I°
IP	X2
Max absorbed current (A)	2,75
Max absorbed power (W)	350
Nominal current (A)	1,80
Nominal diameter (mm)	160
Nominal power (W)	230
Voltage (V)	220-240

Weight (Kg)	40
Breakout sound power LWA [dB(A)]	47,2
Breakout sound pressure at 3m at Max speed Lp [dB (A)]	26,7
Max airflow (l/s)	110
Max airflow (m³/h)	400
Max pressure (mmH2O)	69
Max pressure (Pa)	680
Max thermal efficiency (%)	90,4
Sound power at exhaust inlet LWA [dB(A)]	45,7
Sound power at supply outlet LWA [dB(A)]	61,5
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

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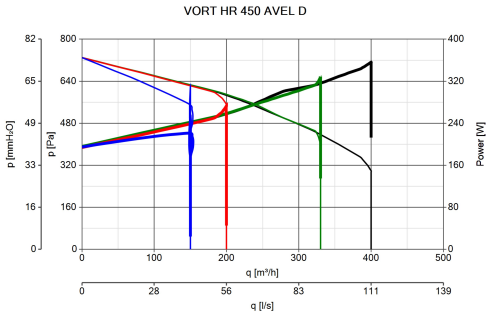
VORT HR 450 AVEL D

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

ELECTRIC HEATER 2400
Code 21623

FTR ISO COARSE 90% (G4) 400X200X5
Code 21628

FTR ISO COARSE 90% (G4) 420X59X5
Code 21629

FTR EPM1 55% (F7) 398X184X21
Code 21624

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

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