



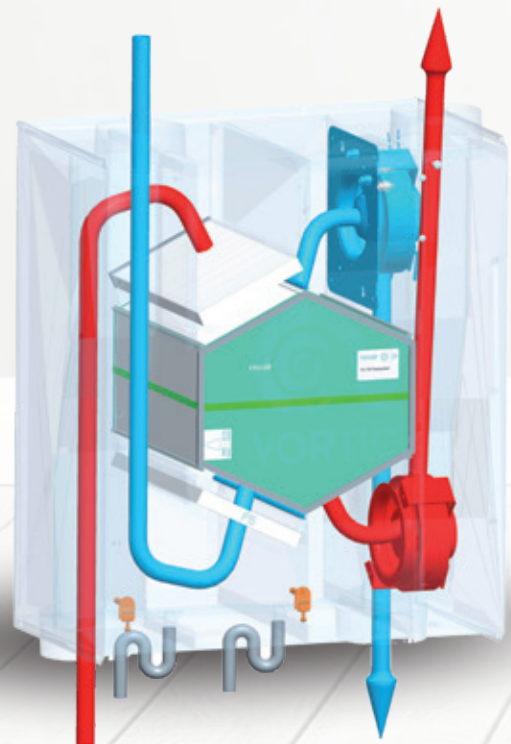
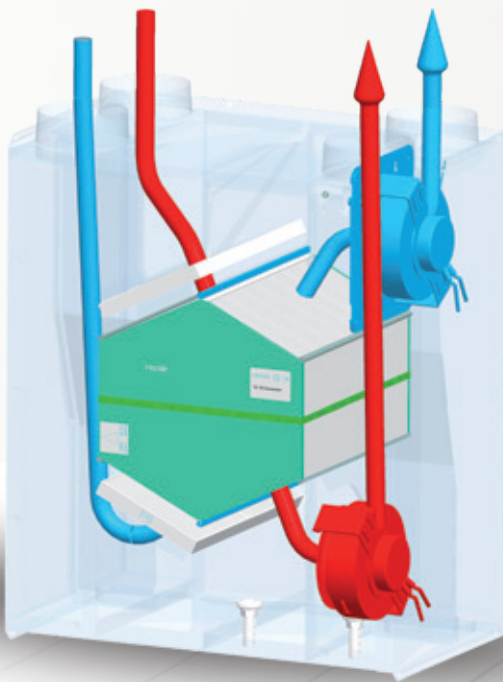
VORT HR 350 EXO RANGE

Wall-mounted residential heat recovery unit

A+

Dual flow centralised unit with heat recovery for floor and wall installation ideal for ventilation of homes and residential and commercial premises.

- Enclosure in galvanised steel sheet insulated by fire-resistant (DIN EN 13501), sound-proof lining.
- Ports nominal diameter 150 mm.
- Very high-efficiency counter-flow heat exchanger in PS resin.
- Highly efficient backward curved centrifugal fans moved by EC (brushless) 3 speed motors impellers with backward-curved blades.
- 2 easily accesible F5 filters (optional F7 filter on intake).
- Integrated frost protection.
- Wired electronic control allowing with LCD display:
 - initial configuration;
 - manual setting of operating mode;
 - automatic operation according to ambient conditions detected by wired sensor (optional);
 - continuous monitoring of correct operation (possible problems shown on LCD display);
 - constant monitoring of filter status (maintenance needs shown on LCD display);
 - SW updating through dedicated port.
- Blocked filter status monitoring system.
- Support brackets for wall-mounting.
- Protection rating: IPX2.
- Insulation class: I. ⊕.





KEY FEATURES

- Designed for outdoor installation.
- High performances (350 m³/h) combined with low power consumption. (150 W).
- Very high-heat transfer efficiency (Max 92%) in the conditions (+5°C, +25°C, 28% RH) established by applicable international standards (EN 308).
- Proportionately compact dimensions
- 2 versions: 4 parts on the top or split on the top and the bottom to accomplish different installations.
- Painted sheet steel cabinet (optional), to house the product in outdoor areas in the absence of dedicated closed vanes.
- Painted sheet steel heated cabinet (optional), designed to ensure the correct and effective operation of the appliance outdoor, even at low temperatures.



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TECHNICAL DATA

MODELS	CODE	V ~ 50 Hz	W	A	MAX AIRFLOW		MAX PRESSURE		°C max	Kg
					m³/h	l/s	mmH ₂ O	Pa		
VORT HR 350 EXO	11590	230	140	1.2	350	97.2	40	392	50	38w

ENERGY DATA

	UNIT OF MEASUREMENT	VORT HR 350 EXO 11590
Supplier's name or trade mark	-	Vortice
Specific Energy Consumption class SEC in average climate zone	-	A+
Specific Energy Consumption class SEC average		-42,3
Specific Energy Consumption class SEC cold	kWh/m ² year	-81,2
Specific Energy Consumption class SEC warm		-17,4
Declared typology	-	BRVU*
Type of drive	-	VSD**
Type of heat recovery system HRS	-	recuperative
Thermal efficiency of heat recovery at reference air flow	%	89,9
Maximum flow rate [m³/s]	m³/h	284
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	66,0
Sound power level LWA	LWA [dB(A)]	57
Reference flow rate	m³/s	0,0556
Reference pressure difference	Pa	50
SPI***	W/(m³/h)	0,15500
Control factor CTRL	-	0,85
Control typology	-	local demand control
Maximum internal leakage rates	%	15,5
Maximum external leakage rates	%	8,2
Mixing rate	-	NA*
Position and description of visual filter warning	-	See user manual
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	-	NA*
Indoor/outdoor air tightness	m³/h	NA*
Annual electricity consumption (AEC)	kWh electricity/year	185
AHS average Annual heating saved		4627
AHS cold Annual heating saved	kWh primary energy/year	9052
AHS warm Annual heating saved		2092

Energy data pursuant to 1254/2014 EU Regulation

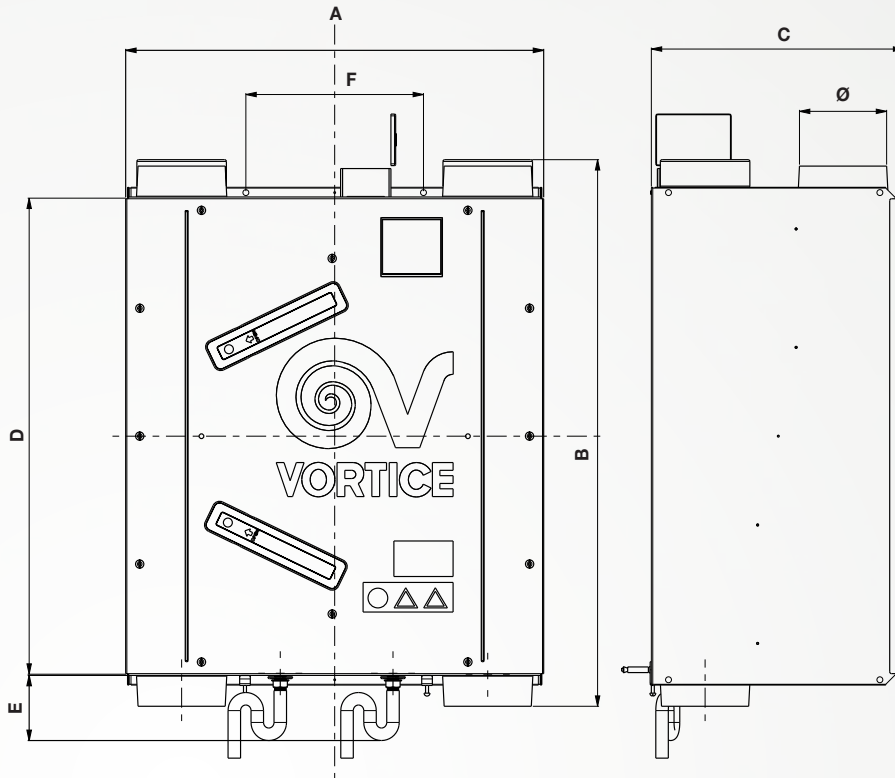
*BRVU: Bidirectional Residential Ventilation Unit
*URVU: Unidirectional Residential Ventilation Unit

**VSD: Variable Speed Drive
**MSD: Multi Speed Drive

***SPI: Specific Power Input

NA: data not applicable

DIMENSIONS



MODELS	CODE	A	B	C	D	E	F	Ø
VORT HR 350 EXO	11590	706	923	429	804	100	300	150

Dimensions (mm)

SOUND LEVELS

		Sound Power						Sound Power Tot.	Sound Pressure Tot.	
		Lw dB (A)						Lw dB (A)	Lp dB (A)**	
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
Nom. Speed	Supply to internal	26.8	36.4	42.8	32.0	26.0	13.3	8.7	53.9	33.4
	Extract to internal	9.8	21.8	18.5	15.5	n.a.	n.a.	n.a.	31.2	10.7
	Breakout	42.5	44.0	43.9	39.6	35.2	26.9	17.2	56.5	36

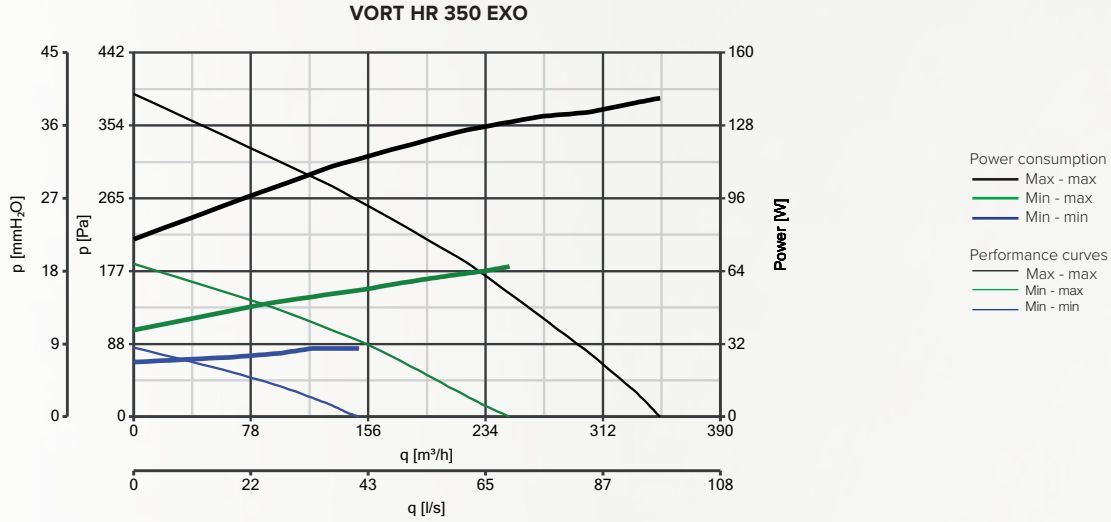
Tests carried out according EN9614 standard. **Sound pressure calculated at 3 m distance in free-field.
n.a. = data not available



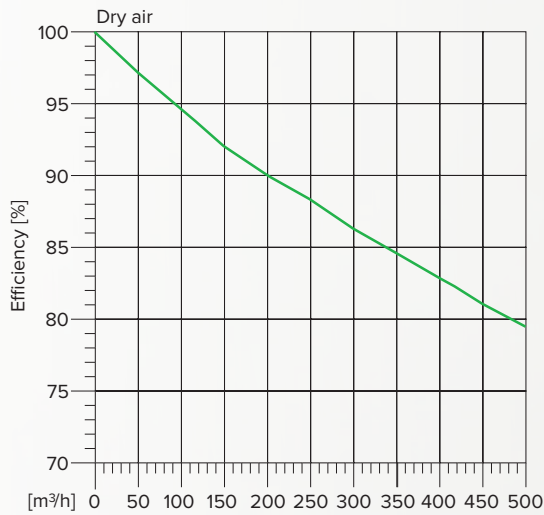
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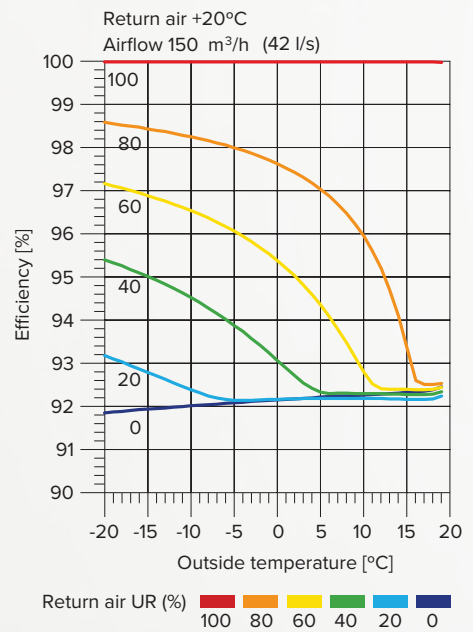
PERFORMANCE CURVES



Efficiency as a function of the airflow



Influence on efficiency due to condensation heat



ACCESSORIES



code 22323
F7 filter

