

CENTRALIZED VENTILATION

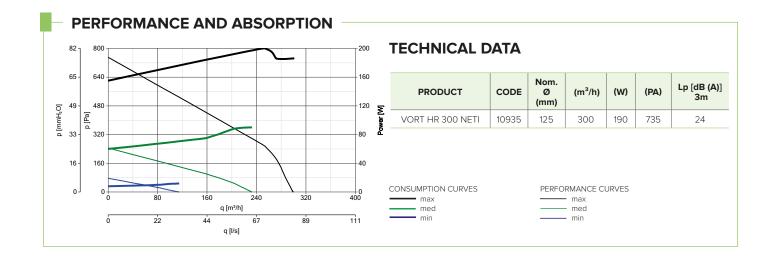
WALL AND FLOOR MOUNTING

UP TO 180 M²

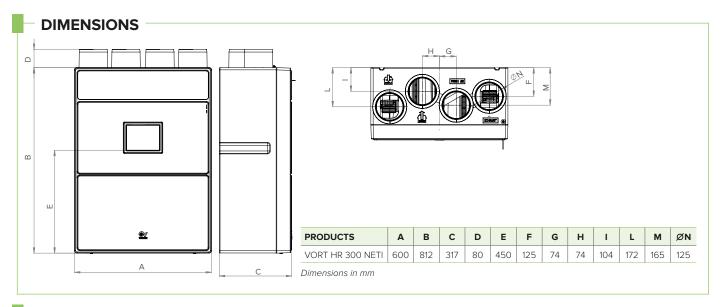
Centralized dual flow ventilation unit with heat recovery for floor and wall installation, ideal for ventilation of homes and residential and commercial premises with a surface area of up to 180 m^2 .



- Internal structure in high density expanded polypropylene 40kg/m³.
- · Aesthetic front panel in plastic resin, glossy white finish.
- Connection spigots to pipes with a nominal diameter of 125 mm, backward curved centrifugal fans directly coupled to EC motors.
- High efficiency counter flow heat exchanger in plastic material (PS).
- Automatic mechanical by-pass for free-cooling.
- Filters ePM10 50% (M5) and Coarse 65% (G4), located respectively in correspondence with the inlet and outlet ducts.
- Integrated control panel (Remote control panel with optional wired connection)
- Supporting bracket for wall installation integrated in the product
- Can be integrated into residential home automation systems (ModBus protocol) on RS485 SLAVE mode.







ENERGY DATA

	UNIT OF MEASURE	VORT HR 300 NETI
MANUFACTURER'S NAME OR TRADE NAME		VORTICE
CLASS OF SPECIFIC ENERGY CONSUMPTION FOR TEMPERATE CLIMATE	-	A
SPECIFIC ENERGY CONSUMPTION SEC (TEMPERATE CLIMATE)		- 35
SPECIFIC ENERGY CONSUMPTION SEC (COLD CLIMATE)	kWh/m²	- 74
SPECIFIC ENERGY CONSUMPTION SEC (WARM CLIMATE)	year	- 11
DECLARED TYPE OF THE VENTILATION UNIT	-	UVR-B**
DRIVE TYPE	-	VSD***
HRS TYPE HEAT EXCHANGER	-	recovery
THERMAL EFFICIENCY OF HEAT RECOVERY AT THE HRS REFERENCE FLOW RATE	%	87.9
MAXIMUM FLOW RATE	m³/h	270
TOTAL ELECTRIC POWER ABSORBED BY THE FAN AT MAXIMUM FLOW RATE	W	190
Sound LEVEL	LWA [dB(A)]	57.2
REFERENCE FLOW RATE	m³/s	0.0525
REFERENCE PRESSURE DIFFERENCE	Pa	56
SPI****	W/(m3/h)	0.4392
CTRL CONTROL FACTOR	-	0.85
CONTROL TYPE	-	centralized env.
MAXIMUM PERCENTAGE OF INTERNAL LEAKAGE	%	2.8
MAXIMUM PERCENTAGE OF EXTERNAL LEAKAGE	%	2.3
MIXING RATE	-	NA*
POSITION AND DESCRIPTION OF THE VISUAL FILTER SIGNAL	-	See instruction booklet
AIR FLOW SENSITIVITY AT PRESSURE VARIATIONS OF ± 20 PA	-	NA*
INDOOR/OUTDOOR AIR SEALING	m³/h	NA*
AEC ANNUAL ELECTRICITY CONSUMPTION	kWh of electricity/year	442
TEMPERATE AHS ANNUAL HEATING SAVINGS		4573
COLD AHS ANNUAL HEATING SAVINGS	kWh of primary energy /year	8946
WARM AHS ANNUAL HEATING SAVING		2068

^{*} NA: Not applicable. ** UVR-U: Residential Ventilation Unit - Uni-directional. *** VM: Multiple speeds. VSD: Variable Speed Drive.

^{****} SPI: Specific power input.

TECHNICAL CHARACTERISTICS

1 model

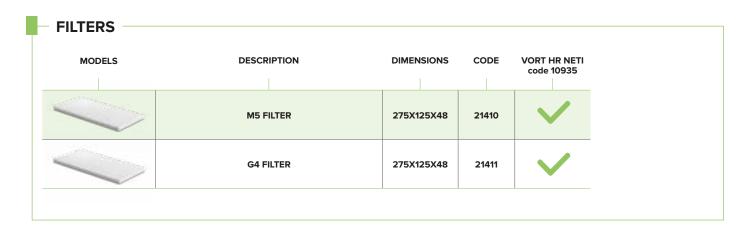
- Fire resistant expanded polypropylene casing (DIN EN 13501). Brackets for wall installation included in the standard equipment.
- Aesthetic front panels in white polycarbonate (alternative colors available on request), integrating the panels for direct access to the filters.
- Intake and delivery spigots compatible with the connection to pipes with a nominal diameter of 125 mm.
- Pair of motor fans driven by EC (brushless) motors of the external rotor type, with shafts mounted on ball bearings to ensure a virtually "maintenance free" operation, directly coupled to backward curved centrifugal impellers to guarantee high aeraulic efficiency. 3 operating speeds, independently settable at installation.
- · High efficiency counter flow heat exchanger in plastic material (PS).
- · Anti frost protection with automatic activation, to prevent the formation of frost at the heat exchanger.
- Mechanical, automatic and 100% filtered by-pass, to guarantee the comfort of the occupants of the rooms in mid seasons, or whenever the outside temperature does not require the action of the heat exchanger.
- · Control unit with LCD display, for:
 - •turning the product on and off;
 - •the initial configuration of the product;
 - manual setting of the operating mode;
 - automatic management of the product and monitoring of its correct operation;
 - system diagnostics;
 - constant monitoring of the filters condition and signaling the need for their maintenance/replacement;
 - updating the firmware release.
- Pair of M5 filters (F7 filter available as an option for the delivery duct), easily accessible for periodic maintenance.
- Condensate collection tray with drain devices.
- · Possibility of integration in home automation environments through the ModBus communication protocol.
- Possibility of interlocking with external environmental sensors (optional), for the automatic control of the operating mode.
- Degree of protection from dust and water: IPX2.
- Electrical insulation class: I (grounding required).

TECHNICAL DATA

PRODUCTS	CODE V~50 / 60HZ		W A max ma	A	A MAX FLOW RATE		MAX PRESSURE		°C*	KG
		IIIdX		m³/h	I/s	mmH_2O	Pa	IVIAA		
VORT HR 300 NETI	10935	220 - 240	190	1.33	300	83	75	735	40	15

^{*} Maximum temperature with continuous operation of the product.





MODELS	DESCRIPTION	DIMENSIONS	CODE	VORT HR NETI code 10935	CB LCD R code 21194
	CB LCD R remote control unit with wired LCD panel, For recessed installation.	116x83x65	21194	~	
d.	WALL BOX HRW RC	-	22732	V	V
5 0	BUILT-IN BOX TYPE 503	- 22461		~	V
.0.	C HCS Humidity detector	144x54x55.8	12994	~	
	C PIR Presence detector	144x54x55.8	12998	~	
	C TEMP Temperature detector	144x54x55.8	12992	~	
	C SMOKE Polluted air detector	144x54x55.8	12993	V	

