

RESIDENTIAL HEAT RECOVERY SOLUTIONS



vortice.com



VMC AND HEAT RECOVERY

VORTICE RANGE

CONTROLLED MECHANICAL VENTILATION AND HEAT RECOVERY



VMC AND HEAT RECOVERY

WALL-MOUNTED UNITS

UNITS UP
TO **150 m²**



VORT HR 300 NETI
(code 10935)

UNITS UP
TO **170 m²**



VORT HR 350 AVEL
(code 12106)

UNITS UP
TO **220 m²**



VORT HR 450 AVEL D
(code 12101)

FALSE CEILING UNITS

ENTRY LEVEL

UNITS UP
TO **75 m²**



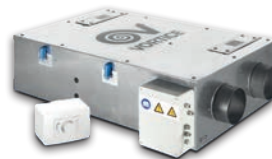
VORT HRI 200 FLAT
(code 11281)

UNITS UP
TO **110 m²**



VORT HRI 200 FLAT
(code 11281)

UNITS UP
TO **150 m²**



VORT HRI 350 FLAT
(code 11282)

UNITS UP
TO **220 m²**



VORT HRI 350 FLAT
(code 11282)

PREMIUM MARKET

UNITS UP
TO **75 m²**



VORT INVISIBLE
MINI TOP
(code 12219)

UNITS UP
TO **110 m²**



VORT HRI 200 PHANTOM BP
(code 11291)

UNITS UP
TO **150 m²**



VORT HRI 350 PHANTOM BP
(code 11293)

UNITS UP
TO **220 m²**



VORT HRI 350 PHANTOM BP
(code 11293)

Heat recovery unit is made considering a 0.5 vol/h air exchange, project flow rate @ 100 Pa and 2.7 m average height

HEAT RECOVERY UNITS - RESIDENTIAL



VMC AND HEAT RECOVERY

DECENTRALISED HEAT RECOVERY UNITS FOR WALL INSTALLATION

Ventilation units with heat recovery designed for air exchange in residential and commercial rooms of new or renovated buildings, characterised by high levels of thermal insulation. They can be installed on perimeter walls between 260 and 700 mm thick.

VORT MONO RANGE 4 MODELS

VORT HRW 40 MONO EVO Ø 160
(on-board controls) Code 12435

VORT HRW 40 MONO EVO HCS Ø 160
(with remote control and humidistat)
Code 12437

VORT HRW 30 MONO EVO Ø 100
(on-board controls) Code 12434

VORT HRW 30 MONO EVO HCS Ø 100
(with remote control and humidistat)
Code 12436

SERIE VORT MONO WI-FI 4 MODELS

VORT HRW 30 MONO WI-FI
(on-board controls) Code 12441

VORT HRW 30 MONO WI-FI HCS
(with remote control and humidistat)
Code 12443

VORT HRW 40 MONO WI-FI
(on-board controls) Code 12442

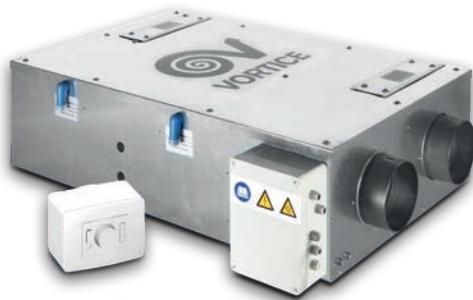
VORT HRW 40 MONO WI-FI HCS
(with remote control and humidistat)
Code 12444



CENTRALISED HEAT RECOVERY UNITS FOR FALSE CEILING INSTALLATION

Five models of heat recovery units for horizontal installation on false ceiling.

VORT HRI FLAT RANGE 2 MODELS



VORT HRI 200 FLAT Code 11281

165 m³/h @ 100 Pa

CASING:
galvanised sheet with internal
sound-absorbing coating

BY-PASS:
thermodynamic and automatic

CONTROL PANEL:
remote with 3 speeds

DIMENSIONS mm: 860x643x240 (h)

WEIGHT: 24 kg

CONNECTION SPIGOTS: 125 mm

VORT HRI 350 FLAT Code 11282

310 m³/h @ 100 Pa

CASING:
galvanised sheet with internal
sound-absorbing coating

BY-PASS:
thermodynamic and automatic

CONTROL PANEL:
remote with 3 speeds

DIMENSIONS mm: 1183x740x288 (h)

WEIGHT: 33 kg

CONNECTION SPIGOTS: 150 mm

VORT PHANTOM RANGE 2 MODELS



VORT HRI 200 PHANTOM B.P
Code 11291

165 m³/h @ 100 Pa

CASING:
galvanised sheet with internal
sound-absorbing coating,
lower cover made of ABS

BY-PASS:
mechanical and automatic

CONTROL PANEL:
remote LCD with wired connection

DIMENSIONS mm: 868x643x248 (h)

WEIGHT: 24 kg

CONNECTION SPIGOTS: 125 mm

VORT HRI 350 PHANTOM B.P
Code 11293

310 m³/h @ 100 Pa

CASING:
galvanised sheet with internal
sound-absorbing coating,
lower cover made of ABS

BY-PASS:
mechanical and automatic

CONTROL PANEL:
remote LCD with wired connection

DIMENSIONS mm: 1183x740x288 (h)

WEIGHT: 24 kg

CONNECTION SPIGOTS: 150 mm

VORT INVISIBLE MINI RANGE



VORT INVISIBLE MINI TOP
Code 12219

100 m³/h @ 100 Pa

CASING:
galvanised and painted sheet, interior made of expanded polypropylene

BY-PASS:
mechanical and automatic

CONTROL PANEL:
remote LCD with wired connection for 503

DIMENSIONS mm: 484x441x218 (h)

WEIGHT: 14 kg

CONNECTION SPIGOTS: 125 mm

Integrated HCS sensor

HEAT RECOVERY UNITS - RESIDENTIAL



VMC AND HEAT RECOVERY

CENTRALISED HEAT RECOVERY UNITS FOR WALL INSTALLATION

Heat recovery units for vertical installation on wall or base.

A

VORT HR 450 AVEL D

Code 12101



400 m³/h @ 100 Pa

CASING:

galvanised and painted steel sheet. Front panel made of plastic resin.

BY-PASS:

mechanical and automatic.

CONTROL PANEL:

integrated on the recovery unit.

Remote LCD control with optional wired connection.

DIMENSIONS mm: 709x486x783 (h)

WEIGHT: 40 kg

CONNECTION SPIGOTS: 160 mm



PASSIVE HOUSE

Independent institute for energy efficiency in buildings

A

VORT HR 350 AVEL

Code 12106



320 m³/h @ 100 Pa

CASING:

expanded polypropylene. Front panel made of plastic resin.

BY-PASS:

mechanical and automatic.

CONTROL PANEL:

Remote LCD control with optional wired connection.

DIMENSIONS mm: 712x455x845 (h)

WEIGHT: 23 kg

CONNECTION SPIGOTS: 150 mm

A

VORT HR 300 NETI

Code 10935



290 m³/h @ 100 Pa

CASING:

expanded polypropylene with front panel made of plastic resin

BY-PASS:

mechanical and automatic

CONTROL PANEL:

integrated on the recovery unit.

Remote LCD control with optional wired connection.

DIMENSIONS mm: 600x317x812 (h)

WEIGHT: 15 kg

CONNECTION SPIGOTS: 125 mm

HEAT RECOVERY UNITS - RESIDENTIAL



VMC AND HEAT RECOVERY

HEAT RECOVERY UNITS WITH DEHUMIDIFICATION FUNCTION

Products to be used when it is necessary to combine ventilation, heat recovery and dehumidification. Generally used as an integration to radiant cooling systems.

VORT HRI DH RANGE 2 MODELS



VORT HRI 260 DH RC

Code 45092

130 m³/h (ventilation) @ 100 Pa
260 m³/h (dehumidification) @ 100 Pa

CASING:

galvanised steel sheet

DEHUMIDIFICATION CAPACITY:

30.1 liters/day

CONTROL PANEL:

integrated on the recovery unit.
Remote LCD control with optional wired connection.

DIMENSIONS mm: 1103x655x262 (h)

WEIGHT: 60 kg

CONNECTION SPIGOTS: 125 mm

VORT HRI 500 DH RC

Code 45094

250 m³/h (ventilation) @ 100 Pa
500 m³/h (dehumidification) @ 100 Pa

CASING:

galvanised steel sheet

DEHUMIDIFICATION CAPACITY:

61.8 liters/day

CONTROL PANEL:

integrated on the recovery unit.
Remote LCD control with optional wired connection.

DIMENSIONS mm: 1304x756x405 (h)

WEIGHT: 80 kg

CONNECTION SPIGOTS: 160 mm



ACCESSORY

MTRH - MECHANICAL THERMO-HYGROSTAT Code 22609

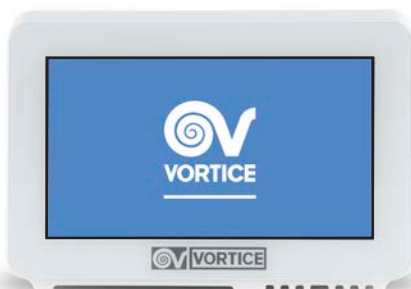
Horizontal installation on false ceiling, dehumidification, cooling and heating action for environments.

CB TOUCH LCD W

REGULATORS AND CONTROLLERS



REMOTE CONTROL PANEL WITH COLOUR LCD GRAPHIC DISPLAY WHICH CAN BE COMBINED WITH CENTRALISED HEAT RECOVERY UNITS OF VORTICE RESIDENTIAL RANGE.



Code 21933



VORTICE RECOVERY UNITS COMPATIBLE

VORT HR 350 AVEL Code 12106
VORT HR 300 NETI Code 10935
VORT HR 450 AVEL D Code 12101
VORT INVISIBLE MINI TOP Code 12219
VORT HRI 200 PHANTOM BP Code 11291
VORT HRI 350 PHANTOM BP Code 11293

- Switching on/off of the controlled mechanical ventilation unit.
- Initial setting protected by password whose access is reserved for the installer.
- Activation of the AUTO MODE: the product automatically regulates its operation based on the weekly schedule previously set.
- Activation of the BOOST MODE: the product goes at maximum speed.
- Activation of the QUIET MODE: the product never operates at the maximum speed during the night time band, which can be set by the user.
- Activation of the HOLIDAY MODE: the unit continuously operates at a reduced temperature so as to guarantee adequate air exchange even if there are no people in the house for a prolonged period of time.
- Setting of the weekly schedule of operation for the controlled mechanical ventilation unit.
- Manual activation of the by-pass damper.
- Activation/exclusion of the pre-heating/post-heating batteries (if installed).
- Display of the following values:
 - a. INDOOR and OUTDOOR air temperature (°C/°F)
 - b. Relative humidity (RH) in the environment.
- Display of the correct activation of the defrosting procedure in case of extremely cold temperatures.
- Signalling of the filter clogging status for a correct periodic maintenance.

Note: The features and display data mentioned above may change depending on the controlled mechanical ventilation unit with which the CB LCD TOUCH W control panel is combined.

VORT SANIKIT

AIR SANITISATION KIT FOR CENTRALISED HEAT RECOVERY SYSTEMS

VORT SANIKIT is a sanitisation device expressly designed for the sanitisation of the air passing through the centralised heat recovery units of VORTICE residential range.

The combined use of heat recovery units and sanitisation kit does not affect in any way the air exchange guaranteed by the ventilation system, which is essential to maintain the humidity and carbon dioxide concentrations. Due to its photocatalysis module, VORT SANIKIT is effective against pathogens such as viruses and bacteria, as well as against bad smells, allergens, moulds, spores, mites, etc.

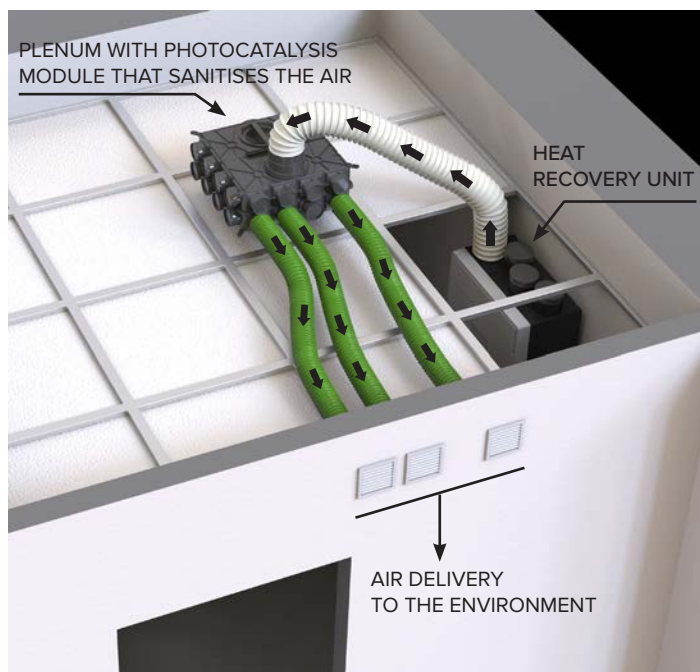
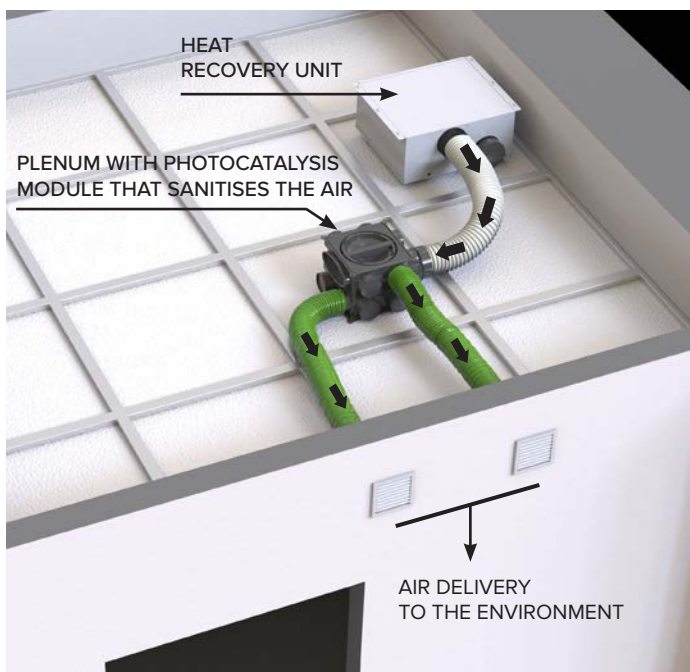
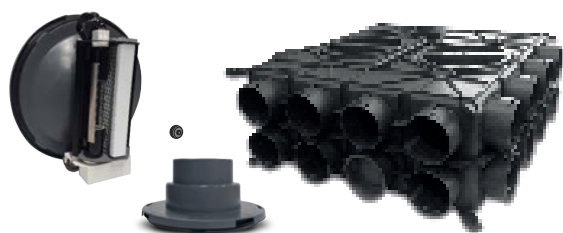
It is possible to integrate VORT SANIKIT in VORTICE controlled mechanical ventilation systems, previously installed.

VORT SANIKIT 2 MODELS





VORT SANIKIT 250 - Cod. 25095



VORT SANIKIT 400 - Cod. 25096



ACCESSORIES

	<p>POT-IT - Code 12826 Potentiometer compatible with wall installation and flush mounting in UNI503 standard box</p>		<p>WDG-CO Code 21356 Adapter cone</p>
	<p>POT-IT - Code 12828 Potentiometer compatible with wall installation and flush mounting in UNI503 standard box</p>		<p>IN LINE S 100 Code 22551 Non-return damper nominal Ø 100 mm</p>

AEREAULIC DISTRIBUTION SYSTEMS



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AIR DISTRIBUTION KIT

In order to perform a rapid sizing of the aeraulic components, VORTICE has designed some AIR DISTRIBUTION KITS based on the number of rooms to be treated.

4-ROOM KIT

CODE	DESCRIPTION	No. OF PIECES
46272	Insulated pipe Ø 125 m m - 10 m	1
46058	External grille Ø 125 mm	2
21323	Plenum WDG-PH PLUS-C 6X63	2
23209	Corrugated hose WD 63 Ø 63/75 mm	1
21086	Fastening rings WDG-OR 63	2
21088	Anti-slipping rings WDG-RR 63	1
26798	Plenum WDPE-PB	6
26799	Single grille WDPE-BF	2
25073	Double grille WDPE-BF	2

Example: living room + bedroom + kitchen + bathroom

5-ROOM KIT

CODE	DESCRIPTION	No. OF PIECES
46272	Insulated pipe Ø 125 m m - 10 m	1
46058	External grille Ø 125 mm	2
21323	Plenum WDG-PH PLUS-C 6X63	2
23209	Corrugated hose WD 63 Ø 63/75 mm	1
21086	Fastening rings WDG-OR 63	2
21088	Anti-slipping rings WDG-RR 63	1
26798	Plenum WDPE-PB	6
26799	Single grille WDPE-BF	4
25073	Double grille WDPE-BF	1

Example: living room + bedroom + bedroom + kitchen + bathroom

6-ROOM KIT

CODE	DESCRIPTION	No. OF PIECES
46272	Insulated pipe Ø 125 m m - 10 m	1
46058	External grille Ø 125 mm	2
21323	Plenum WDG-PH PLUS-C 6X63	2
23209	Corrugated hose WD 63 Ø 63/75 mm	2
21086	Fastening rings WDG-OR 63	2
21088	Anti-slipping rings WDG-RR 63	1
26798	Plenum WDPE-PB	8
26799	Single grille WDPE-BF	4
25073	Double grille WDPE-BF	2

Example: living room + bedroom + bedroom + kitchen + bathroom + bathroom

7-ROOM KIT

CODE	DESCRIPTION	No. OF PIECES
46272	Insulated pipe Ø 125 m m - 10 m	1
46058	External grille Ø 125 mm	2
21323	Plenum WDG-PH PLUS-C 6X63	2
23209	Corrugated hose WD 63 Ø 63/75 mm	2
21086	Fastening rings WDG-OR 63	2
21088	Anti-slipping rings WDG-RR 63	1
26798	Plenum WDPE-PB	10
26799	Single grille WDPE-BF	4
25073	Double grille WDPE-BF	3

Example: living room + bedroom + bedroom + bedroom + kitchen + bathroom + bathroom

SYSTEM COMPONENTS

<p>INSULATED PIPE Code 46272</p> 	<p>EXTERNAL GRILLE Ø 125 Code 46058</p> 	<p>PLENUM Code 21323 WDG-PH PLUS-C 6x63</p> 	<p>CORRUGATED HOSE Code 23209 - WD 63</p> 
<p>FASTENING RING Code 21086 - WDG-OR 63</p> 	<p>ANTI-SLIPPING RING Code 21088 - WDG-RR 63</p> 	<p>PLENUM Code 26798 - WDPE-PB</p> 	<p>SINGLE GRILLE Code 26799 WDPE-BF</p>  <p>DOUBLE GRILLE Code 25073 WDPE-BF</p> 

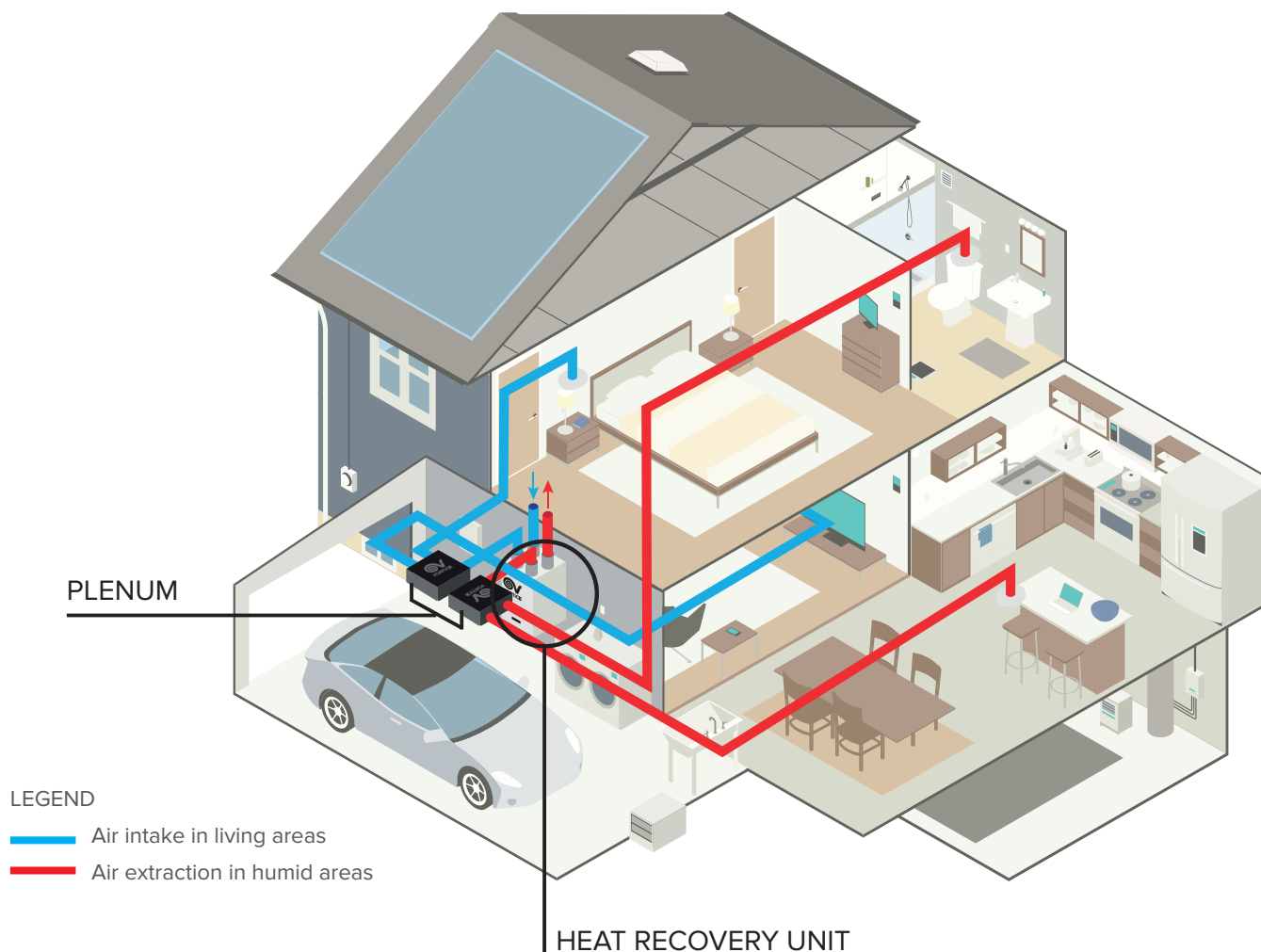
HRU SYSTEM SIZING SUPPORT



VMC AND HEAT RECOVERY

HOW TO REQUEST THE SIZING FROM VORTICE:

VORTICE is organized to offer a sizing support of the complete HRU system, thanks to a dedicated software and qualified Pre-Sales team. It is necessary to provide the planimetry of the area to be treated in pdf or dwg format, with the indication of the intended use of the rooms. It is also necessary to know the space available for positioning both the ventilation unit (false ceiling or wall) and the relating air distribution system (false ceiling or floor).



CUSTOMER SERVICE

BY YOUR SIDE FOR PLANNING AND SIZING.



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BY YOUR SIDE FOR STARTING, CALIBRATION AND SUPPORT ON SITE



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