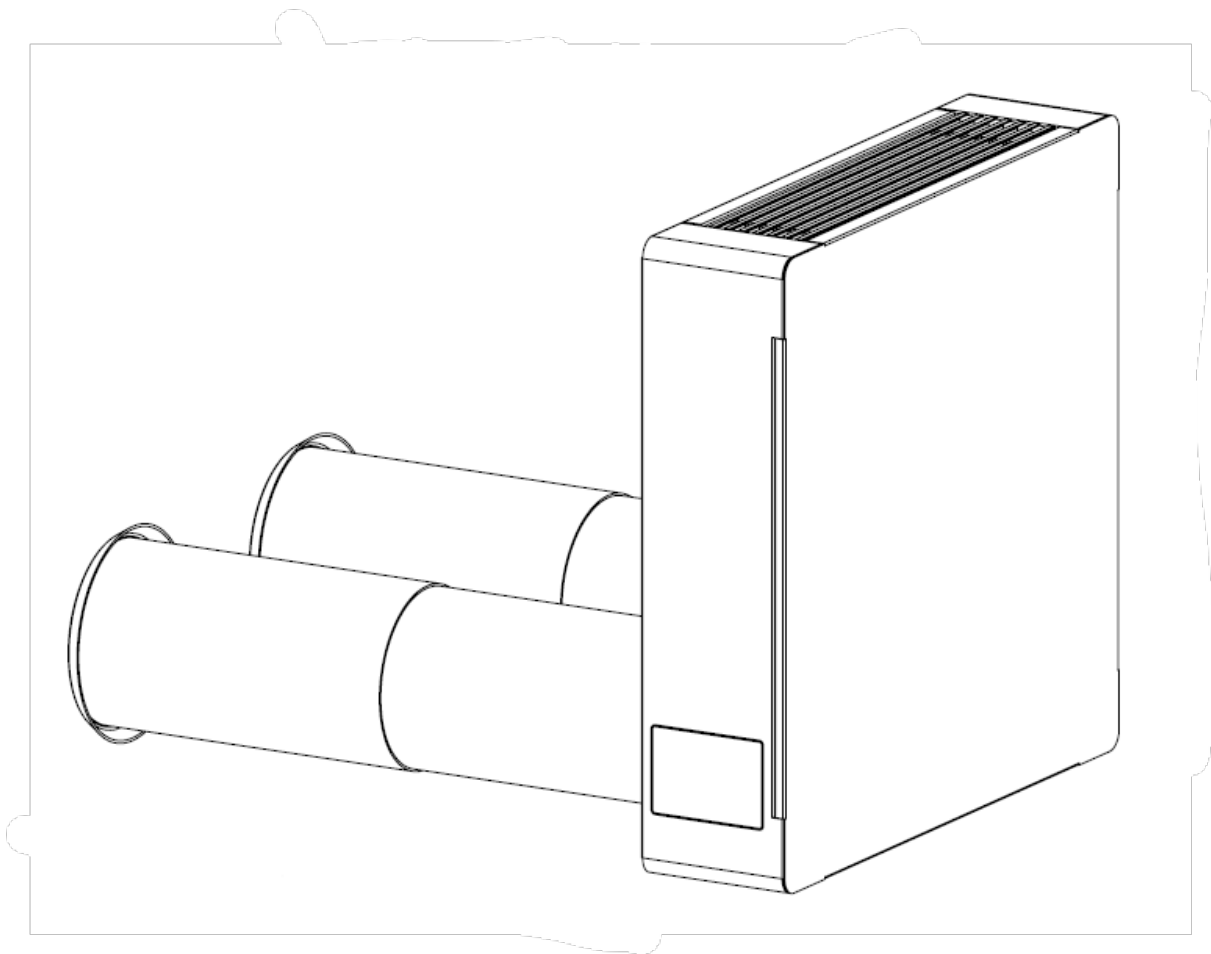


Dual-flow HRC – 08

Cross-flow recuperator for decentralized application



GENERAL FEATURES

STRUCTURE

High-strength structure with frame
self-supporting sheet metal
Internal parts made of polyethylene



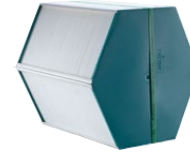
FANS

The unit is equipped with axial fans with
Brushless BLDC motor.



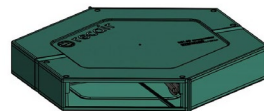
RECUPERATOR

Sensible or enthalpic cross-flow counterflow heat
exchanger with very high efficiency.



FILTRATION

Upstream of the recuperator are
two filters with filtration class
ePM1-80%/ ePM1-80%.
Removal can take place
without the aid of any tools



BYPASS

The units are equipped with
Bypass,
which allow the function of only
supplying fresh air from outside
when ideal conditions exist.



REMOTE CONTROL – WIFI

The unit provides for operation through
Remote control and APP;
Air quality, humidity and temperature sensor

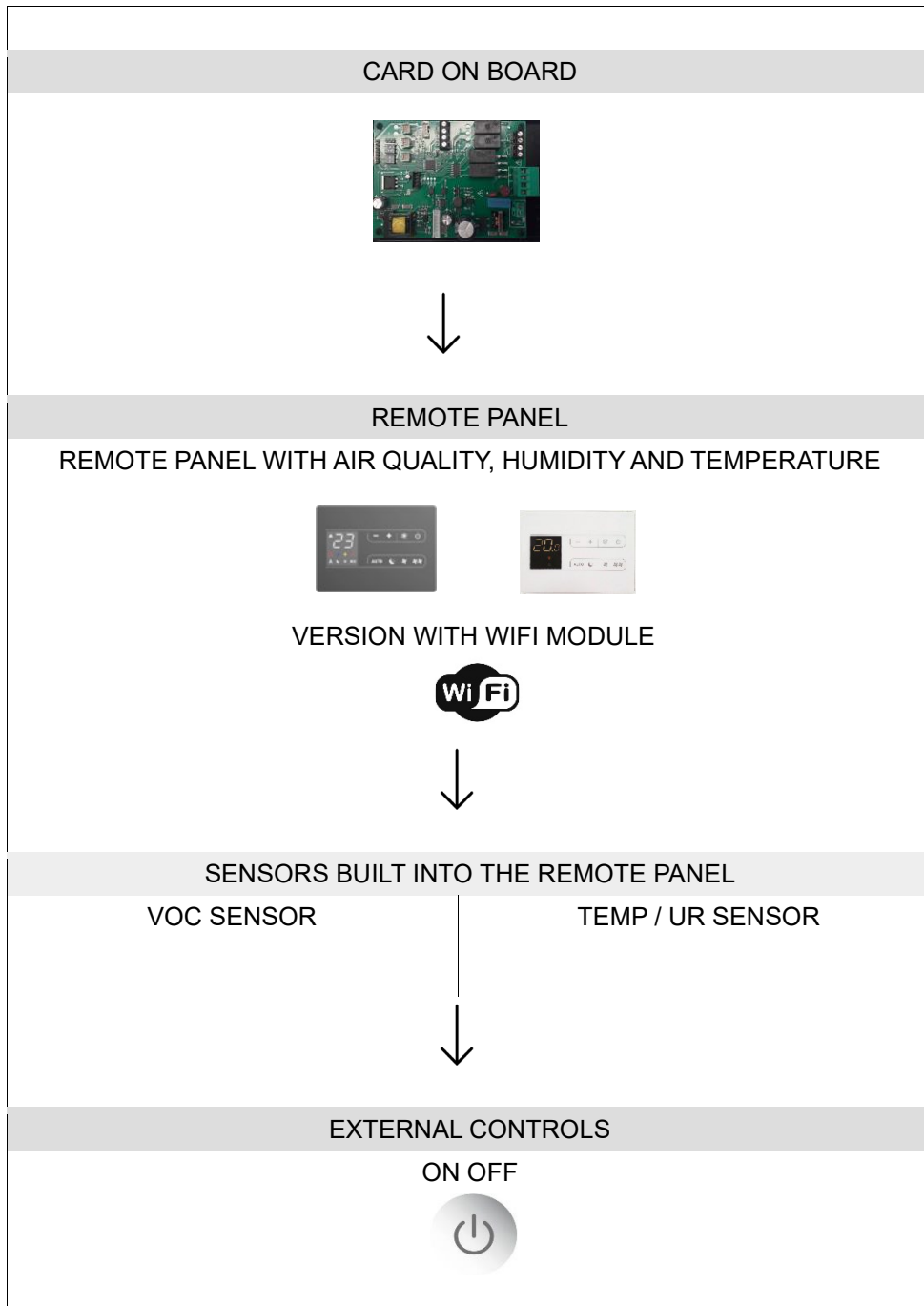
CONSTRUCTION FEATURES

HRC double-flow - 08 is a decentralized double-flow ventilation unit with very high efficiency; The unit is particularly suitable for residential units with the possibility of installing as many units as necessary to cover the air exchange requirements of the dwelling; Each unit covers approximately 50-60 m² of floor area.

FRAME:	Self-supporting sheet metal frame, galvanized sheet metal panels, with high-density polyethylene insulation inside; exterior painting of aesthetics with RAL9003 finish
HEAT EXCHANGER:	High-efficiency polypropylene cross-flow countercurrent heat exchanger. Low freezing temperatures, very high exchange efficiency
FANS:	Brushless fans with electronic motor and constant flow control; very high efficiency and low noise levels
FILTERS:	80/80% ePM1 filters with low pressure drop. Easily removable in both horizontal and vertical positioning.
FREE COOLING:	Free cooling with automatic management through temperature probes
SWITCHBOARD:	VERSION I Switchboard complete with management board 4 fan speeds, antifreeze, automatic bypass, temperature probes, post-heating coil management and automatic dirty filter signaling. Control panel for unit operation with capacitive touch, built-in air quality temperature and humidity sensors; for 502-503 box or wall mounting; Wi-fi chip for management through remote APP;
EFFICIENCY:	Due to the special construction features and its components HRC is able to achieve recovery efficiencies greater than 90 %. In the winter and summer seasons, there is considerable energy recovery of the fresh air fed into the room.

FUNCTIONALITY COMMANDS

The composition of the three possible electronics of the unit and the functions of the various versions are defined below:



ECODESIGN CLASSIFICATION

I regulation, which will take effect from December 15, 2014, defines the energy consumption labels to be attached to ventilation units and the information to be put in the instruction booklets of appliances, so that consumers are fully informed about the consumption and energy efficiency of appliances.

DEFINITIONS: "Ventilation unit" means an electrically powered unit equipped with at least one impeller, a motor and a case, intended to carry out the exchange of exhaust air with air from outside a building or part of a building. Residential ventilation units subject to the requirement are those with a maximum flow rate of 250 m³/h. The rules are extended to those with a capacity between 250 and 1,000 m³/h only if they are intended, as declared by the manufacturer, exclusively for ventilation of residential buildings.

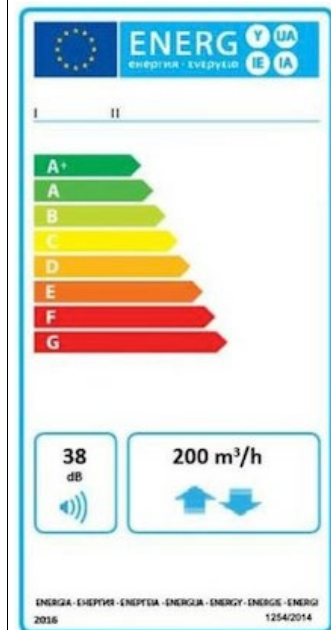
LABEL: The label will inform the consumer of the supplier's name or brand, supplier's model identifier, energy efficiency class of the appliance, sound power level (LWA), in dB, and maximum flow rate, in m³/h.

RESPONSIBILITY OF SUPPLIERS. Suppliers placing residential ventilation units on the market shall ensure that, as of January 1, 2016, the following conditions are met:

1. Each residential ventilation unit shall be provided with a printed label, in the format set out in Annex III, and containing the information specified therein; the label shall be present at least in the packaging of the unit. An electronic label of the format and with the information specified in Annex III shall be available to distributors for each model of residential ventilation unit;
2. a product fiche shall be available as specified in Annex IV. At a minimum, the fiche shall be present in the packaging of the unit. An electronic product fiche as described in Annex IV shall be available to distributors and on public websites for each model of residential ventilation unit;
3. the technical documentation referred to in Annex V shall be provided upon request to the authorities of the Member States and the Commission;
4. instructions for use shall be provided;
5. any advertisement for a specific model of residential ventilation unit containing information concerning energy or price shall indicate the specific energy consumption class of that model;
6. any technical promotional material relating to a specific model of residential ventilation unit, describing its specific technical parameters, shall indicate its specific energy consumption class.


RESPONSIBILITY OF DISTRIBUTORS: Instead, distributors shall ensure that:

1. at the point of sale, each residential ventilation unit carries the label made available by suppliers under Article 3(1)(a) on the outside of the front or top of the unit so that it is clearly visible;
2. Residential ventilation units offered for sale, for rental or installment sale in situations where the end user is not expected to be able to view the product displayed shall be marketed with the information provided by suppliers in accordance with Annex VI, unless the offer is made via the Internet, in which case the provisions of Annex VII shall apply;
3. any advertisement relating to a specific model of residential ventilation unit that contains information concerning energy or price indicates the specific energy consumption class of the unit;
4. any technical promotional material relating to a specific model, describing the technical parameters of a residential ventilation unit, includes the specific energy consumption class of the model, as well as the instruction manual provided by the supplier



The following summarizes the classification of various models according to European Regulation 1253/2014 and 1254/2014

ENERGY CLASS UNIT

HRC 08 enthalpy exchanger


UNIT CONFIGURATION

	-1-	-2-	-3-
HRC	08	VX	I

1) Defines the maximum flow rate

Size: 08 up to 80 m³/h

2) Type of installation

VX: Vertical enthalpy view

3) Type of control

I: electronics I

TECHNICAL FEATURES

GENERAL TECHNICAL DATA

Size	HRC 08
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Fans

Fan Type		Brushless fans with electronic motor and modulating control.
Number Fans	Nr	2
Maximum air flow rate	m ³ /h	80
Reference scope	m ³ /h	56
Available useful pressure	Pa	15

Acoustic data

Sound power Lw transmitted by the structure	dB (A)	46
Average sound pressure Lp at 1 m	dB (A)	33
Average sound pressure Lp at 3 m	dB (A)	26

Sensible heat exchanger

Exchanger type		Countercurrent with enthalpy membrane
Recovery efficiency Temperature/humidity	%	80,5 / 61 %

Data Referred to the following conditions (UNI EN 13141-7):

- nominal air flow rate
- outdoor air 7°C with 70% ur / indoor air 20°C with 28% ur

Filter

Side	Renewal	Extraction
Filtration class	ePM 1 - 80 % (F7)	ePM 1 - 80 % (F7)

Electrical Data

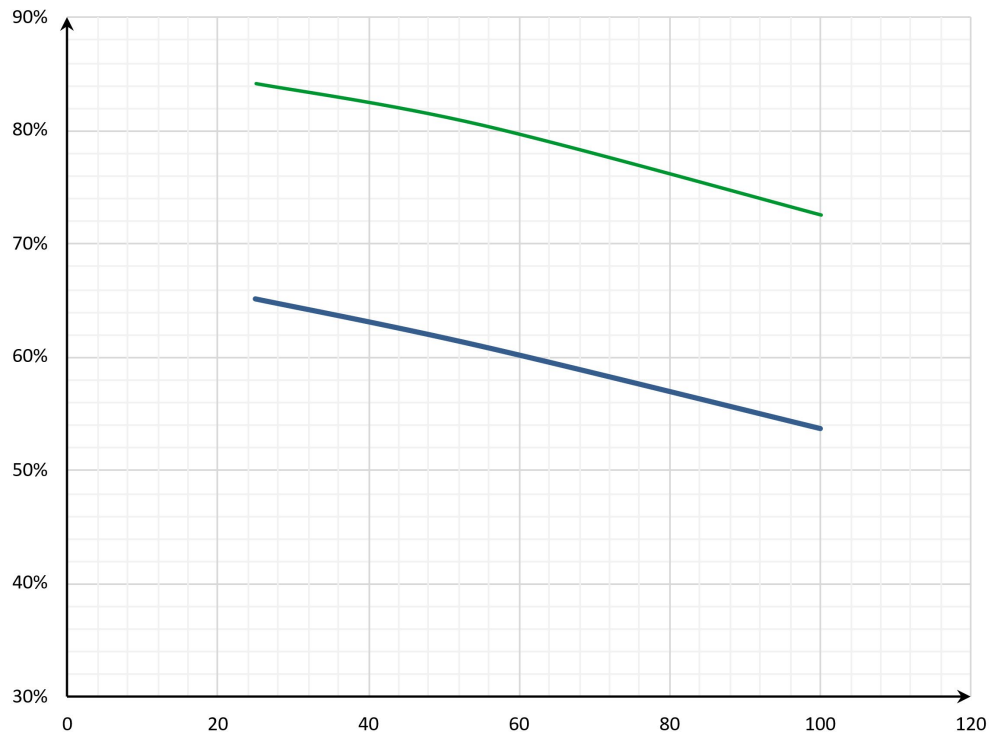
Supply voltage		230 V / 1 / 50Hz
Max power consumption	W	45
Unit degree of protection	IP	X2

ENERGY CLASS UNIT

<div style="background-color: #008080; color: white; padding: 10px 20px; display: inline-block; font-weight: bold; font-size: 24px;">A</div>
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CURVES HRC 08

THERMAL EFFICIENCY WITH ENTHALPY EXCHANGER




* Curves referred to the following conditions (UNI EN 13141-7): Outdoor air 7° - 70% R.H. - Indoor air 20° -28% R.H.

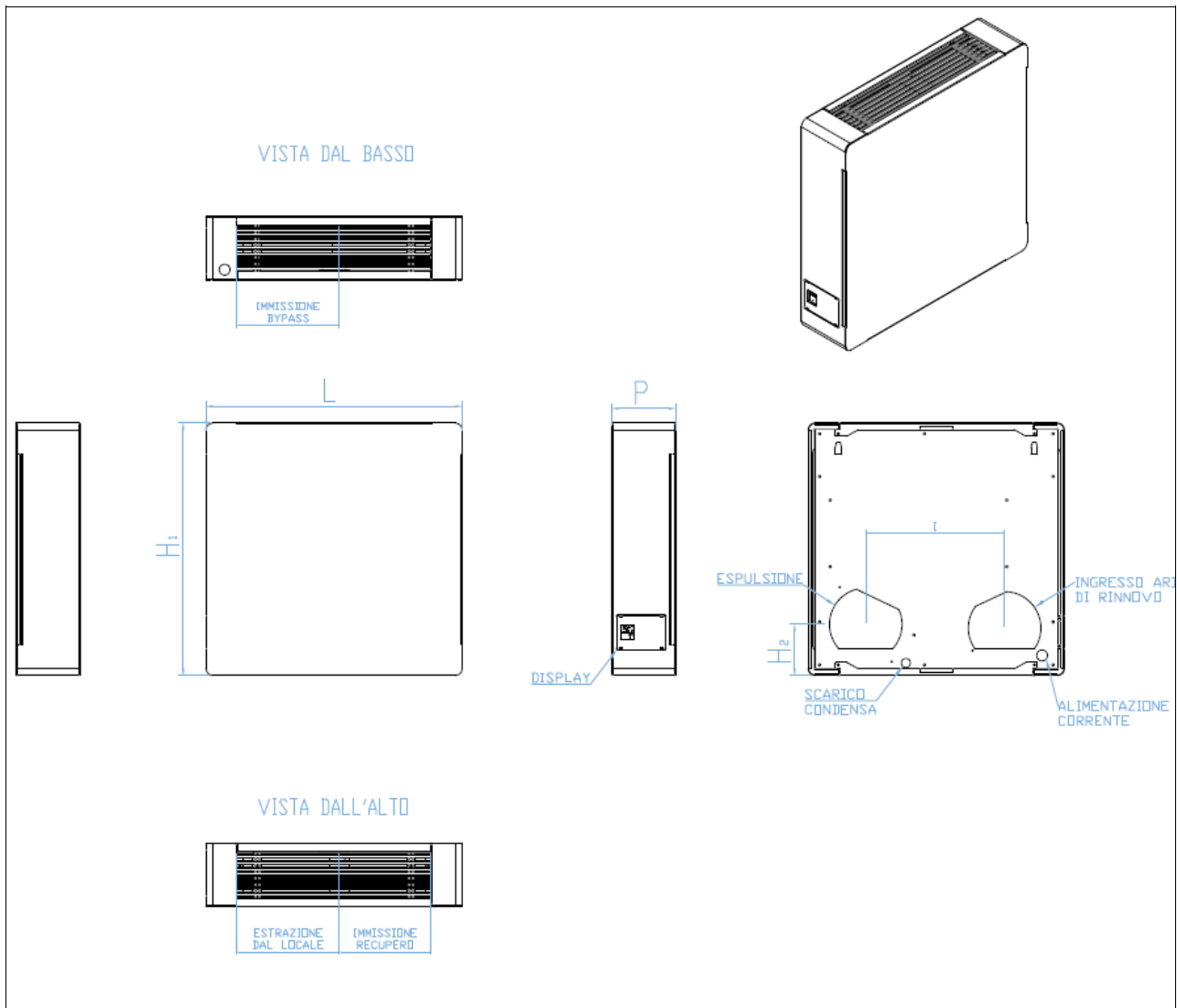
DATA ERP ECODESIGN HRC 08 VX I

Model		HRC 08 V X	
Version		Local demand control/Version I + Regolatore UR / Voc - Co2	
SEC	kWh/(m ² a)	COLD	-77,83
		AVERAGE	-40,0
		WARM	-15,70
SEC CLASS		A 	
Declared type		UVR - Bidirectional	
Type of drive installed		Variable speed drive	
Heat recovery system		Recovery	
Thermal efficiency of heat recovery	%	81,5	
Maximum flow rate	m ³ /s	0,022	
Electrical power input at maximum flow rate	W	45	
Sound power level	Lwa	48	
Reference flow rate	m ³ /s	0,0155	
SPI	W / m ³ /h	0,357	
Control factor	CLTR	0,65	
Declared maximum percentages of leakage	%	3,5 ext. / 3,9 int.	
Position and description of the signal related to the filter		Displayed on the unit and remote control display and On the instruction manual	
AEC annual electricity consumption (kWh/(m ² a))	COLD	7,71	
	AVERAGE	2,34	
	WARM	1,89	
Annual heating saved AHS (kWh/(m ² a))	COLD	88,37	
	AVERAGE	45,17	
	WARM	22,42	

Item specifications

	<p>Decentralized ventilation unit with very high efficiency heat recovery with cross-flow counter-current exchanger, compact size for wall installation.</p> <p>Specific unit for ventilation in single residential buildings and collective apartments with low energy requirements.</p> <p>Tested and classified according to the European Ecodesign regulation ref. 1253/2015 and 1254/2014</p> <p>CONSTRUCTION FEATURES.</p> <p>High-strength structure with self-supporting sheet metal frame and polyethylene internal parts externally painted RAL9003.</p> <p>Design aesthetics and compact size for simplified installation with front panel easily accessible for maintenance and inspection.</p> <p>160 mm diameter circular rear inlets with sealing gasket for connection to air ducts.</p> <p>Front panel release for quick and tool-free filter inspection, drain for condensate evacuation.</p> <p>Electrical panel, excluded from airflow with management boards and control terminal blocks</p> <p>Centrifugal backward-bladed radial type fans with EC motors with electronic speed control and low power consumption, polypropylene counterflow static heat exchanger for very high sensible heat recovery efficiencies, ePM1 80% class filters with low pressure drop, motorized by-pass with motor inserted in electrical panel for easy maintenance</p> <p>CONTROLS AND ADJUSTMENTS</p> <p>I versions with electronic board for 3-step speed management, antifreeze functions and automatic bypass.</p> <p>Temperature, humidity and IAQ sensors on panel and temperatures on board and possibility of hot water auxiliary coil management.</p> <p>Version with enthalpy exchanger</p>
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DIMENSIONS



Width L	mm	565
Depth P	mm	148
Height H1	mm	555
Height H2	mm	112
External hole diameter	Ø	2 x 160
Hole spacing I	mm	306
Hole spacing distance - bottom of unit	mm	112
Condensate drain	Ø	15
Current power supply	Ø	24
Templates		Enthalpy
Weight	Kg	21,1

ACCESSORIES

EQA649II – EQB649II

SMART TOUCH wall control panel with thermostat and temperature, relative humidity and room air quality probe.
Black or white color



ERA649II – ERB649II

SMART TOUCH wall control panel with thermostat and temperature, relative humidity and room air quality probe with built-in Wi-Fi module, InnovApp.
Black or white color



CORNER EXIT KIT

The kit provides the possibility of installing the product with the outlet not directly on the wall, but with angular flow direction. For example, if you have shoulders between the window and the outer wall, you can mask the grille by using the corner kit and exiting close to the window frame.



REPLACEMENT FILTER KIT

Kit consisting of two filters for unit maintenance;
Filters are easily removed through dedicated inspectable ports



EXTERNAL WALL GRID

Aesthetic finishing grid made of anti-static and anti-UV plastic material.



RIGID EPP PIPE

Vapor-tight rigid insulating pipe.
Suitable for supply, exhaust, sending to supply manifold and return to return manifold.



ACOUSTIC SILENCER

Silencer for noise abatement



UNIT ORDERING CODES

HRC dual flow - with enthalpy exchanger

Code	Model	Description
VRVP08WC1II	HRC 08 V X	Decentralized dual-flow heat recovery unit with very high efficiency.

Control panel

Model	HRC 08 V X	
Description	SMART TOUCH wall control panel with thermostat and temperature, relative humidity and room air quality probe. Black or white color	
Code	EQA649II	EQB649II

Control panel with Wi-Fi

Model	HRC 08 V X	
Description	SMART TOUCH wall control panel with thermostat and temperature, relative humidity and room air quality probe with built-in Wi-Fi module, App. Black or white color	
Code	ERA649II	ERB649II

Corner exit kit

Model	HRC 08 V X	
Description	Corner exit kit DN 160 mm	
Code	AHRC0091II	

Replacement filter kit

Model	HRC 08 V X	
Description	Replacement filter kit	
Code	AHRC0045II	

External wall grid

Model	HRC 08 V X	
Description	Aesthetic outer grille DN 160 mm	
Code	AHRC0031II	

EPP rigid tube

Model	HRC 08 V X	
Description	Rigid vapor-tight insulating pipe DN 160 mm	
Code	SCE116001II	

Acoustic silencer

Model	HRC 08 V X	
Description	Silencer for noise abatement from outside DN 160	
Code	AHRC0033II	

CE Marking

The CE marking (found on each machine) certifies compliance with the following EU standards:

- Low Directive Voltage 2014/35/EC
- Electromagnetic Compatibility Directive 2014/30/EC
- Ecodesign 2009/125/EC

Reseller	
The data in this technical catalog may be changed by the manufacturer without prior notice.	