

HRP DOMO SMALL

High efficiency heat recovery unit up to 90%





- -Horizontal / Vertical installation
- -Constant flow rate with 3 selectable levels
- -Remote panel with Wi-Fi and management via APP







DATA SHEET



GENERAL CHARACTERISTICS

STRUCTURE

High strength frame construction sheet metal self-supporting Internal parts in high density EPS.



FANS

The unit is equipped with centrifugal fans with low consumption electronic motor and constant flow rate.



RECOVERY

Very high efficiency counter-flow cross-flow polypropylene heat exchanger.







FILTRATION

Upstream of the recuperator are present two filters with filtration class ePM1. Removal can happen without the aid of any tools.



BYPASS

The units are equipped with automatic bypass which allow the function of only fresh air intake from the outside when there are ideal conditions.



REMOTE CONTROL - WIFI

The unit provides for operation through Remote control and APP.

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CONSTRUCTION FEATURES

HRP DOMO SMALL is a ventilation unit complete with heat recovery unit dedicated to the exchange of air without wasting energy. The unit is particularly suitable for single family units, apartments and in all cases where the nominal air exchange flow rates are not higher than 320 m³/h.

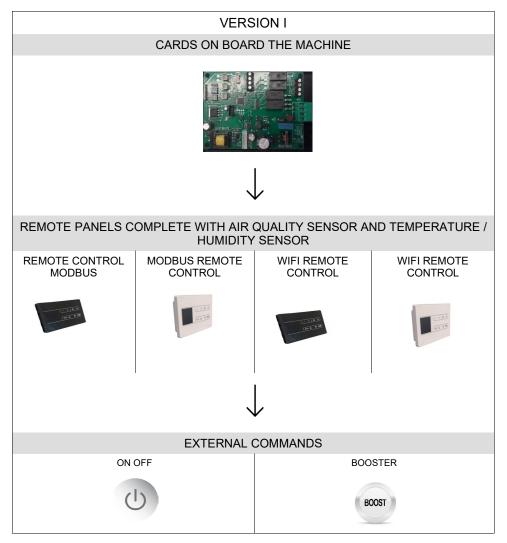
CHASSIS:	Self-supporting sheet metal frame Galvanized sheet panels, externally painted with internal insulation in high density Eps; Front aesthetics in composite Aluicobond
HEAT EXCHANGER:	High efficiency counter-current cross-flow polypropylene heat exchanger. Low freezing temperatures Very high exchange efficiency.
FANS:	Brushless fans with electronic motor and constant flow control; Very high efficiency and low noise levels.
FILTERS:	70/80% ePM1 filters with low pressure drop. Easily removable both horizontally and vertically.
FREE COOLING:	Free cooling with automatic management through temperature probes
ELECTRICAL CABINET:	Electrical panel complete with 4-speed fan management board, antifreeze, automatic bypass, temperature probes, post-heating coil management and automatic dirty filter signalling. Mandatory control panel for unit operation with capacitive touch and integrated air quality, humidity and temperature sensors; for mounting on box 502-503 or on wall; Wi-Fi chip for management via remote APP;
EFFICIENCY:	Thanks to the construction features and its HRP components, DOMO is able to achieve recovery efficiency greater than 90%. In the winter and summer seasons there is a considerable energy recovery of the fresh air

introduced into the environment.



COMMAND FUNCTIONALITY

The composition of the module electronics and version functions is defined below:



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ECODESIGN CLASSIFICATION

The regulation, which will enter into force on 15 December 2014, defines the energy consumption labels to be applied to ventilation units and the information to be placed in the appliance instructions, so that consumers are

fully informed about the consumption and energy efficiency of the appliances.

DEFINITIONS: "Ventilation unit" means an electrically powered appliance equipped with at least one impeller, one motor and one casing, intended to replace the exhausted air with air coming from outside a building or part of it. residential ventilation units subject to the obligation are those with a maximum flow rate of 250 m³/h. The rules are extended to those with flow rates between 250 and 1,000 m³/h only if they are intended, as declared by the manufacturer, exclusively for the ventilation of residential buildings.

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

SUPPLIER RESPONSIBILITIES: Suppliers who place residential ventilation units on the market shall ensure that, as of 1 January 2016, the following conditions are met:

- 1. each residential ventilation unit is accompanied by a printed label, in the format set out in Annex III, and containing the information indicated therein; the label must be present at least in the packaging of the unit. An electronic label in the format and with the information set out in Annex III is available to distributors for each model of residential ventilation unit:
- 2. A product sheet is available as indicated in Annex IV. The card is present at least in the packaging of the unit. For each residential ventilation unit model, an electronic product fiche, as described in Annex IV, is available to distributors and on public websites;
- 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 are provided;
- **5.** any advertisement relating to a specific model of residential ventilation unit which contains information concerning energy or price indicates the specific energy consumption class of that model;
- **6.** any technical promotional material relating to a specific model of residential ventilation unit, which describes its specific technical parameters, indicates its specific energy consumption class. as described in Annex IV;

RESPONSIBILITIES OF DISTRIBUTORS:Instead, distributors shall:

- 1. at the point of sale, each residential ventilation unit bears the label made available by the suppliers pursuant to Article 3, paragraph 1, letter a), on the outside of the front or top of the appliance so that it is clearly visible;
- 2. and residential ventilation units offered for sale, for hire or hire-purchase in situations where it is not expected that the end user can view the product displayed, are marketed accompanied by the information provided by the suppliers pursuant to the annex VI, except if the offer is made via the Internet, in which case the provisions of Annex VII apply;
- **3.** any advertisement relating to a specific model of residential ventilation unit which contains energy or price information indicates the specific energy consumption class of the unit;
- **4.** any technical promotional material relating to a specific model, which describes the technical parameters of a residential ventilation unit, including the specific energy consumption class of the model, as well as the instruction manual provided by the supplier

Below are summarized the classification of the various models according to the European regulation 1253/2014 and 1254/2014

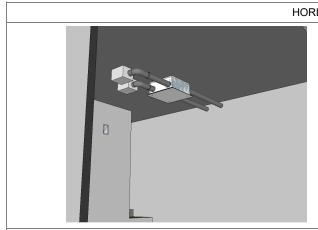
UNIT ENERGY CLASS

HRP DOMO 10 Z	HRP DOMO 20 Z
A	Α

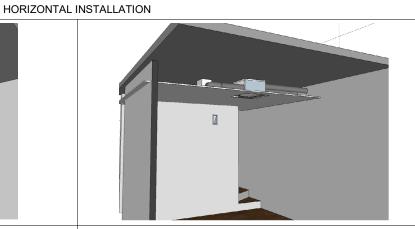
DATA SHEET



TYPES OF INSTALLATION

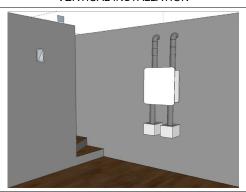






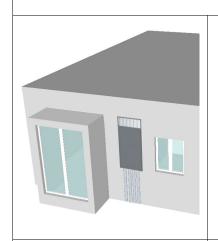
FALSE CEILING INSTALLATION





WALL INSTALLATION

VERTICAL INSTALLATION

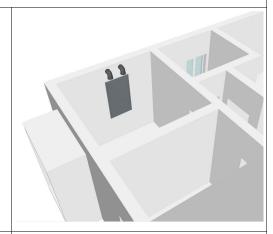


OUTDOOR RECESSED INSTALLATION
WITH EXTERNAL SOCKET AND DIRECT
EXPULSION USING DOMO SMALL
EXTERNAL SOCKET KIT (ACCESSORY)

**SIZE 10 only

OUTDOOR RECESSED INSTALLATION WITH EXTERNAL SOCKET AND DUCTED EXPULSION

**size 10 only



INTERNAL RECESSED INSTALLATION

**sizes 10 only

DATA SHEET



SPECIFICATION ITEM

Specification item

Ventilation unit with very high efficiency heat recovery, compact dimensions for installation on ceiling, wall, wall with aesthetics or recessed wall with insulated formwork and accessory for non-ducted external sockets;

Specific unit for ventilation in individual residential buildings and collective flats with low energy requirements Tested and classified according to the European Ecodesign regulation ref. 1253/2015 and 1254/2014

CONSTRUCTION FEATURES

High resistance structure with self-supporting sheet metal frame

Internal parts in high density polystyrenecompact dimensions and reduced height for simplified installation with easily accessible lower panel for maintenance and inspection.

Circular inlets with a diameter of 160 mm for connection to the air ducts

Quick and tool-free filter inspection and double drain for condensate evacuation with siphon supplied

Electrical panel, excluded from the air flow with management cards and command terminal blocks

Forward curved centrifugal fans with EC motors with electronic air flow control and low consumption

static heat exchanger in polypropylene with counter-current flows for very high sensible or enthalpic heat recovery efficiency ePM1 class filters 80% with low pressure drop

by-pass for summer operation;

- FORMWORK FOR RECESSING THE WALL in self-supporting galvanized sheet, internally insulated with high density EPS;
- EXTERNAL SOCKETS KIT to be able to create the external sockets directly above the formwork without the aid of further ducts:
- AESTHETIC COVER for exposed wall installation;

CHECKS AND ADJUSTMENTS

<u>Versions I</u> with electronic board for 3-step speed management, anti-freeze and automatic bypass functions. Wall-mounted remote touch panel with Wi-Fi module for unit management with VMC APP;

Temperature sensors on board the machine and possibility of managing the auxiliary hot water coil.

Temperature, humidity and air quality sensors included in the remote controls;



Innova

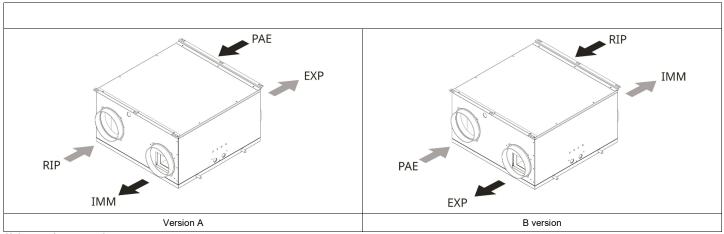
UNIT CONFIGURATION

	-1-	-2-	-3-
HRP DOMO SMALL	10	Z	I

1) Defines the maximum range Size: 10 up to 130 m³/h 20 up to 200 m³/h 2) Type of installation Z: universal – horizontal / vertical

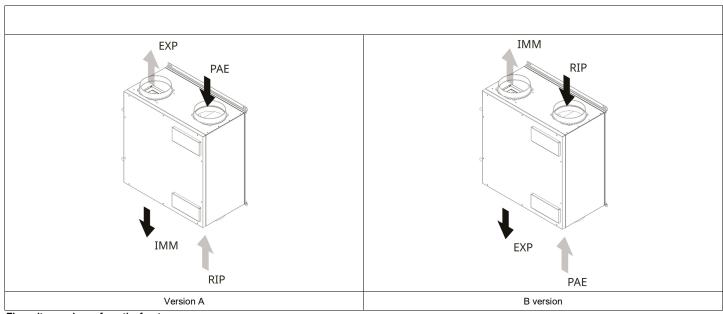
3) Type of control I: electronics I

HORIZONTAL INSTALLATION H



Units are shown top view

VERTICAL INSTALLATION V



The units are shown from the front

DATA SHEET

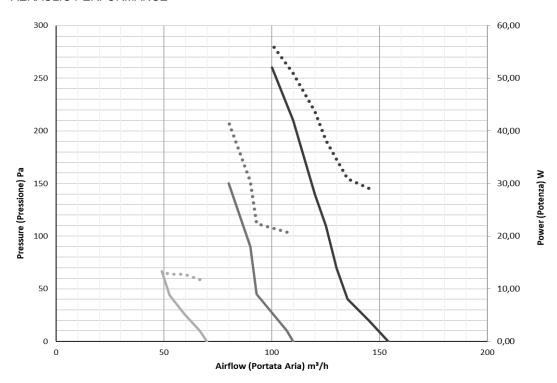


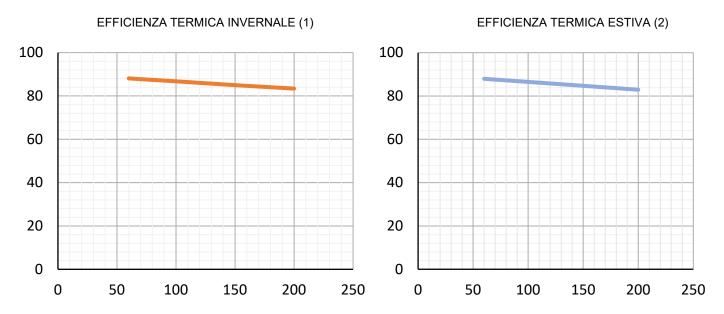
HRP DOMO SMALL 10				
GENERAL TECHNICAL DATA				
Size		10		
Fans				
Type of Fans		Forward curved centrifugal – directly coupled Bushless electronic motor		
Number of fans	No	2		
Air flow	m³/h	130		
Useful pressure	Pa	100		
	EN 13141	1-7 standard - Internal temperature 20 °C - Internal humidity 28% - External temperature 7 °C - External humidity 72%)		
Type of exchanger		Counterflow plates – polypropylene material		
Number of Exchangers	No	1		
Recovery efficiency	%	85.2		
Filters				
Type of filters		Plan Filters		
Filtration class		ePM1 80%		
Acoustic data (Data referring to the UN	I ENI 27/1	and UNI EN 2744 standards)		
Sound power Lw transmitted by the structure	dB(A)	49		
Sound power Lw radiated in the channel	dB(A)	54		
Average sound pressure Lp at 1 m	dB(A)	42.1		
Average sound pressure Lp at 3 m	dB(A)	34.7		
Electrical data				
Supply voltage	٧	230 / 1 / 50Hz.		
Current consumption	TO	0.8		
Absorbed power	w	95		
Degree of protection	IP	IPX0		
Dimension them without aesthetics	5			
Length	mm	580		
Depth	mm	580		
Height	mm	255		
Weight	mm	19		
Connection diameter	mm	160		
Condensate drain	mm	12		



DOMO SMALL 10 HRP CHARTS

AERAULIC PERFORMANCE



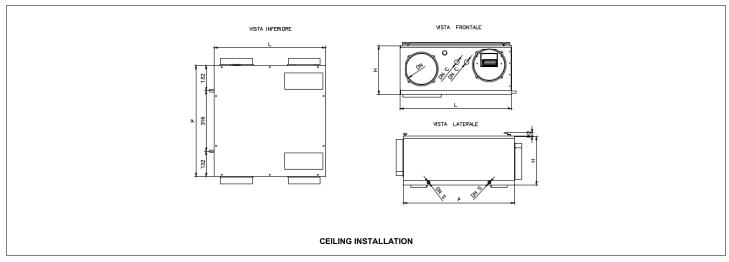


(1) Curve riferite alle seguenti condizioni (UNI EN 13141-7): Aria esterna 7 °C - 75 % UR - Aria interna 20 °C -37 % UR (2) Curve riferite alle seguenti condizioni (UNI EN 13141-7): Aria esterna 35 °C - 40 % UR - Aria interna 27 °C -47 % UR

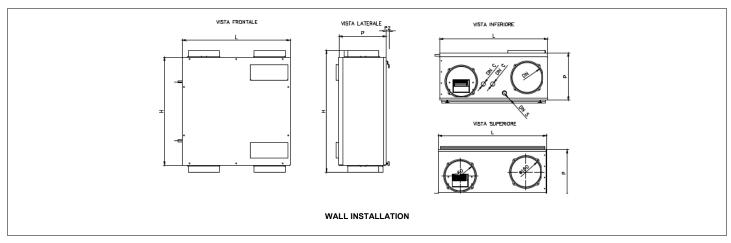
DATA SHEET



HRP DOMO SMALL 10 DIMENSIONS



Width L	mm	580
Depth P	mm	580
Height H	mm	255
Bracket height H2	mm	16
Air diameter DN	OR	160
Condensate drain diameter DN S	mm	12
Cable diameter DN S	mm	16
Weight	Kg	19



Width L	mm	580
Depth P	mm	255
Height H	mm	580
Bracket depth P2	mm	16
Air diameter DN	OR	160
Condensate drain diameter DN S	mm	20
Cable diameter DN S	mm	16
Weight	Kg	19





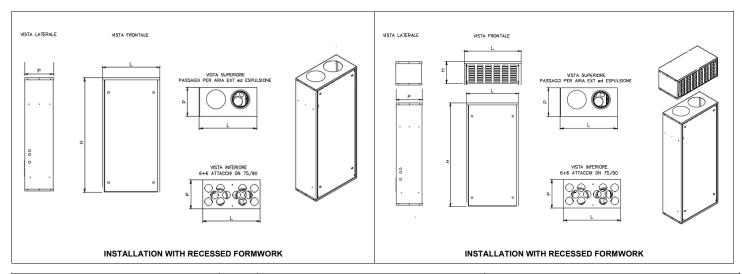
DATA ERP ECODESIGN HRP DOMO SMALL 10

TO	Supplier name or brand			
b	Model identifier			HRP DOMO SMALL 10
	Version			Central demand control / + RH / Voc - Co2 regulator
			COLD	-72.0
	Specific energy consumption SEC	kWh/m²a	AVERAGE	-34.3
С			WARM	-10.1
	SEC CLASS			A
d	Declared typology			UVR - Bidirectional
AND	Drive type installed			Speed variator
f	Heat recovery system			To recovery
g	Thermal efficiency of heat recovery		%	85.2
h	Maximum capacity		m³/s	0.038
THE	Electrical power absorbed at maximum flow	rate	w/h	95
j	Sound power level		Lwa	49
k	Reference range		m³/s	0.027
L	Reference pressure		Pa	50
m	SPI specific power consumption		W / m³/h	0.448
No	Control factor		CLTR	0.85
ΩD	Maximum percentages declared for leakage		% int.	3.1 int.
UK			% East.	4.1 ext.
Q	Location and description of the signal relate	d to the filter		Shown on unit and remote control display e on the instruction manual
St	Disassembly instructions internet address			
			Cold	987.47
٧	Annual electricity consumption AEC	kWh/m²a	Medium	450.47
			Heat	405.47
			Cold	8802.65
w	Annual heating energy savings AHS	kWh/m²a	Medium	4499.72
			Heat	2034.72

DATA SHEET



FORMWORK DIMENSIONS HRP DOMO SMALL 10



Width L	mm	698	698
Depth P	mm	310	310
Height H	mm	1200	1200 + 320
Bracket depth P2	mm	16	16
External / exhaust air diameter DN	OR	160	160
Inlet / outlet diameter DN	OR	(6 + 6) x 75mm	(6 + 6) x 75mm
Condensate drain diameter DN S	mm	20	20
Cable diameter DN S	mm	16	16
Weight	Kg	21	21

DATA SHEET

Condensate drain

mm



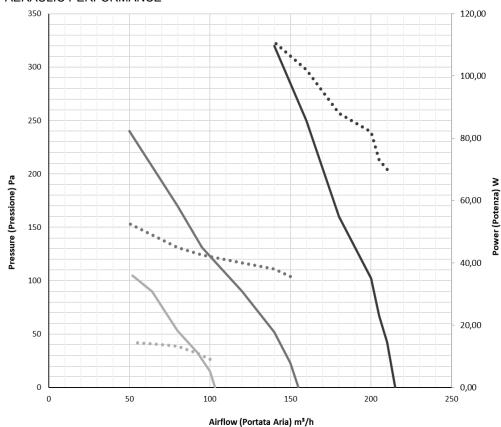
		HRP DOMO SMALL 20
GENERAL TECHNICAL DATA		
Size		20
-	l	
Fans	T	
Type of Fans		Forward curved centrifugal – directly coupled Bushless electronic motor
Number of fans	No	2
Air flow	m³/h	200
Useful pressure	Pa	100
Heat exchanger(Data referring to the UNI Type of exchanger	EN 13141-7 stan	dard - Internal temperature 20 °C - Internal humidity 28% - External temperature 7°C - External humidity 72%) Counterflow plates – polypropylene material
Number of Exchangers	No	1
Recovery efficiency	%	87
Filters		
Type of filters		Plan Filters
Filtration class		ePM1 80%
Acoustic data(Data referring to the L Sound power Lw transmitted by the structure	dB(A)	d UNI EN 3744 standards) 48.0
Average sound pressure Lp at 1 m	dB(A)	35.0
Average sound pressure Lp at 3 m	dB(A)	27.0
Electrical data		
Supply voltage	V	230 / 1 / 50Hz.
Current consumption	ТО	2.2
Absorbed power	w	120
Degree of protection	IP	IPX0
	1	
Dimensional without aestheticsica		500
Length	mm	580
Depth	mm	580
Height	mm	315
Weight	mm	23
Connection diameter	mm	160

12

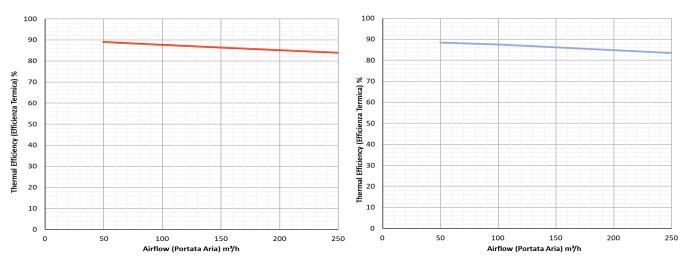


DOMO SMALL 20 HRP CHARTS

AERAULIC PERFORMANCE



WINTER THERMAL EFFICIENCY (1) SUMMER THERMAL EFFICIENCY (2)

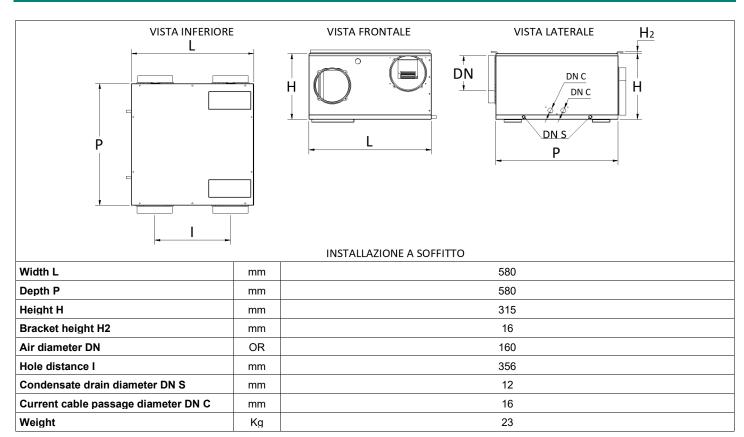


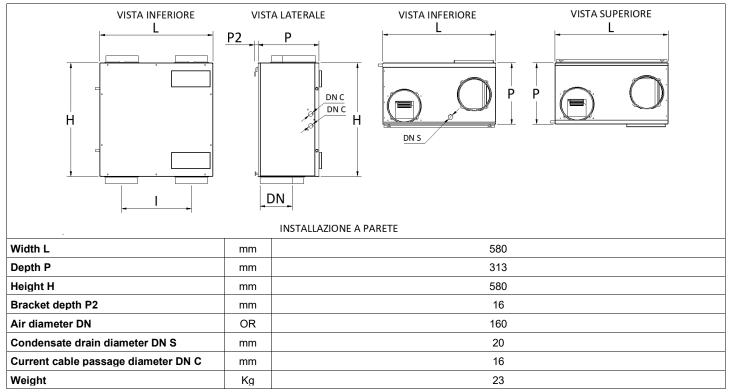
Curves referred to the following conditions (UNI EN 13141-7): External air 7 °C - 75% RH - Internal air 20 °C - 37% RH
 Curves referred to the following conditions (UNI EN 13141-7): External air 35 °C - 40% RH - Internal air 27 °C - 47% RH

DATA SHEET



HRP DOMO SMALL 20 DIMENSIONS





DATA SHEET



DATA ERP ECODESIGN HRP DOMO 20 Z TO Supplier name or brand Model identifier HRP DOMO SMALL 20 Central demand control / Version + RH / Voc - Co2 regulator COLD -76.80 Specific energy consumption SEC kWh/m²a **AVERAGE** -38.78 С WARM -14.37 SEC CLASS Α d Declared typology UVR - Bidirectional AND Drive type installed Speed variator f Heat recovery system To recovery g Thermal efficiency of heat recovery % 86.6 h Maximum capacity m³/s 200 THE 120 Electrical power absorbed at maximum flow rate w/h Sound power level 48 Lwa k Reference range m³/s 0.0388 L Reference pressure Pa 50 $W / m^3/h$ 0.27 m SPI specific power consumption No Control factor CLTR 0.85 % int. 1.8 OR Maximum percentages declared for leakage 1.6 % ext. Shown on unit and remote control display e Q Location and description of the signal related to the filter on the instruction manual St Internet address disassembly instructions Cold 827.65 Medium 290.65 Annual electricity consumption AEC kWh/m²a Heat 245.65 Cold 8876.79 Annual heating energy savings AHS kWh/m²a Medium 4537.62

Heat

2051.85

DATA SHEET



ACCESSORY LIST

FORMWORK FOR VERTICAL RECESSED INSTALLATION

Galvanized sheet formwork for wall recessed installation; Complete with delivery and return air plenum 6+6 outlets DN75 mm; High density polystyrene insulation;



Accessory for built-in formwork, to perform external air intake and expulsion, directly above the formwork or remotely in the desired position;



SQV extension

Air quality probe for wall mounting or Euro thermostat box 80x80 mm; VOC parameter control that can be set for automatic ventilation regulation;

Can be combined only with the TDV control;

Maximum connection length from TDV 50 m if made with 4-wire twisted shielded cable.



COMMAND FOR VERSIONS I

NVC B/W

Removable panel for mounting on box 502-503 or on wall;

Speed, temperature and operating mode control;

Built-in air quality, temperature and humidity sensor

Maximum connection length 50 m if made with 4-wire twisted shielded cable. Black and white version





CNW B/W

Removable panel for mounting on box 502-503 or on wall;

Speed, temperature and operating mode control;

Built-in air quality, temperature and humidity sensor

Maximum connection length 50 m if made with 4-wire twisted shielded cable. wifi commandfi for management via smartphone or tablet and dedicated APP;

Black and white version





FCA – ACTIVE FILTER

Active filter composed of an F7 filter media activated with mini granules of activated carbon:

Recommended for areas with a high rate of contaminating gases in the outdoor air (VOC, PAC, OZONE, SO2, NOX)

The activated carbon filter must be replaced regularly to ensure its effectiveness.



FDR - REPLACEMENT FILTERS F7

Kit consisting of two F7 filters for unit maintenance;

The filters are easily removable through the dedicated inspectable doors;



DATA SHEET

Model

Code

Description



Andala varaion with alactr				
	onics Iwith high efficiency heat exchanger			
Model	Description	Code		
HRP DOMO 10	Heat recovery unit, for universal installation with, flow rate 140 m³/h	VRVM10UC1II		
HRP DOMO 20	Heat recovery unit, for universal installation with, flow rate 200 m³/h	VRVM16UC1II		
ersion models with electr	onics I with high heat exchangerenthalpy efficiency			
Model	Description	Code		
HRP DOMO 10 X	Heat recovery unit, for universal installation with, flow rate 140 m³/h	VRVM10XC1II		
HRP DOMO 20 X	Heat recovery unit, for universal installation with, flow rate 180 m³/h	VRVM16XC1II		
Description	Insulated galvanized sheet metal casing for recessed wall installation with LOWER connections for internal air distribution 6+6 delivery and return for DN 75 mm corrudistribution and external air intake for DN 160 flexible pipe. Dimension	gated pipe and connections for a		
Types of installation	All			
Code	AHRP0802II			
Description	Insulated galvanized sheet metal casing for wall recessed installation with UPPER	room side delivery complete wit		
	connections for internal air distribution 6+6 delivery and return for DN 75 mm corru distribution and external air intake for DN 160 flexible pipe. Dimension	gated pipe and connections for a		
Types of installation		gated pipe and connections for a		
	distribution and external air intake for DN 160 flexible pipe. Dimension	gated pipe and connections for a		
Code	distribution and external air intake for DN 160 flexible pipe. Dimension	gated pipe and connections for a		
Code	distribution and external air intake for DN 160 flexible pipe. Dimension	gated pipe and connections for a		
Code Air quality sensor Model	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II	gated pipe and connections for a		
Code ir quality sensor Model Description	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone	gated pipe and connections for a		
Code Air quality sensor Model Description	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II	gated pipe and connections for a		
Code Air quality sensor Model Description Code	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II	gated pipe and connections for a		
Code ir quality sensor Model Description Code fouch control for I Nero very	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II	gated pipe and connections for a s 698x1200x310 mm		
Code ir quality sensor Model Description Code ouch control for I Nero very Model Description	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II ersions Everyone Smart Touch wall control panel with thermostat and temperature, relative humidity	gated pipe and connections for a s 698x1200x310 mm		
Code Air quality sensor Model Description Code Couch control for I Nero very Model Description Code	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II Prsions Everyone Smart Touch wall control panel with thermostat and temperature, relative humidity Black colour EQA649II	gated pipe and connections for a s 698x1200x310 mm		
Code Air quality sensor Model Description Code Couch control for I Nero versions Code Code Code Code Code	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II Prsions Everyone Smart Touch wall control panel with thermostat and temperature, relative humidity Black colour EQA649II	gated pipe and connections for a s 698x1200x310 mm		
Code Air quality sensor Model Description Code	distribution and external air intake for DN 160 flexible pipe. Dimension All AHRP0805II Everyone Air quality probe with integrated sensor AHRP0431II Prisions Everyone Smart Touch wall control panel with thermostat and temperature, relative humidity Black colour EQA649II	gated pipe and connections for a s 698x1200x310 mm		

Everyone

Smart Touch wall control panel with thermostat and temperature, relative humidity and air quality probe in the room with integrated Wi-Fi module. Black colour

ERA649II

DATA SHEET

Ecodesign 2009/125/EC



Touch control for I versio	ns with White WIFI module
Model	Everyone
Description	Smart Touch wall control panel with thermostat and temperature, relative humidity and air quality probe in the room with integrated Wi-Fi module. White color.
Code	AHRP0636
Room humidistat	
Description	Room humidistat
Code	AHRP0441II
External grille plenum	
Description	Plenum with external grilles for recessed installation
Code	AHRP0803II
Activated Carbon Filter	
Description	Activated carbon filter recommended for areas with a high rate of contaminated gases in the outside air.
Code	AHRP0901II
Spare filter pair kit F7	
Description	Kit of 2 ePM1 80% replacement filters for unit maintenance.
Code	AHRP0501II
CE marking	
The CE marking (preser	nt on each machine) certifies compliance with the following EU standards:
	Directive 2014/35/EC
 Electromagne 	etic Compatibility Directive 2014/30/EC

Dealer	
The data contained in this technical catalog may be changed by the manufactur	er without notice.