

# HRP DOMO SMALL



The universal and compact heat recovery unit

# HRP DOMO SMALL

Compact unit for air renewal with passive recovery system. Vertical/horizontal installation, surface-mounted or built-in installation.

One size: 160 m<sup>3</sup>/h



#### COMPLETE

Complete ventilation unit with summer bypass and frost protection control.



#### RESIDENTIAL APPLICATIONS

Ideal for individual family units/flats.



#### AIR EXCHANGE AND PURIFICATION

High-efficiency air renewal and filtration, with ePM1 80% filters.

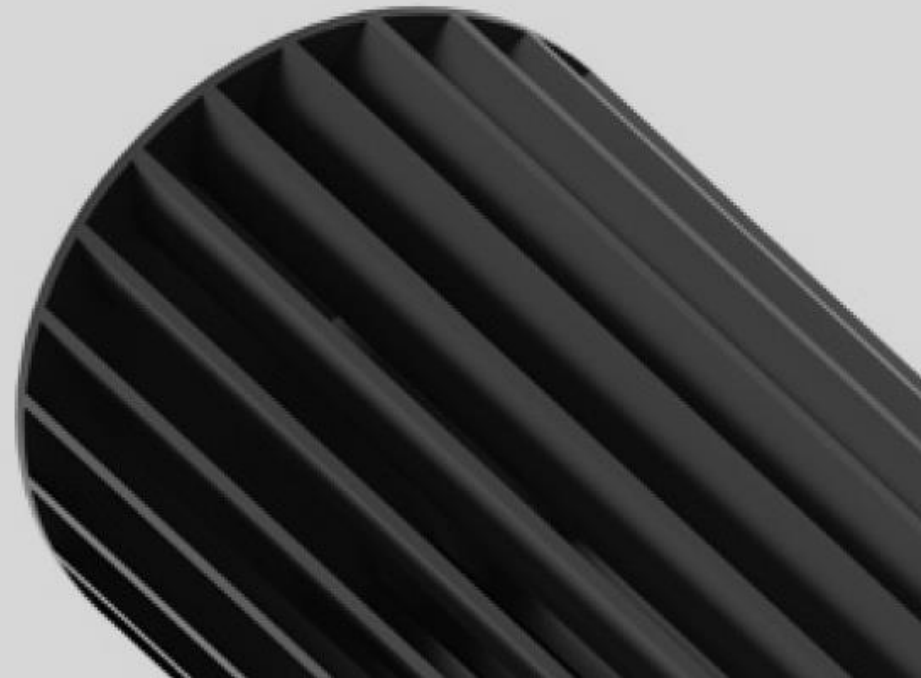


#### SMART TOUCH CONTROL PANEL

Highly attractive and functional wall-mounted remote control panel.

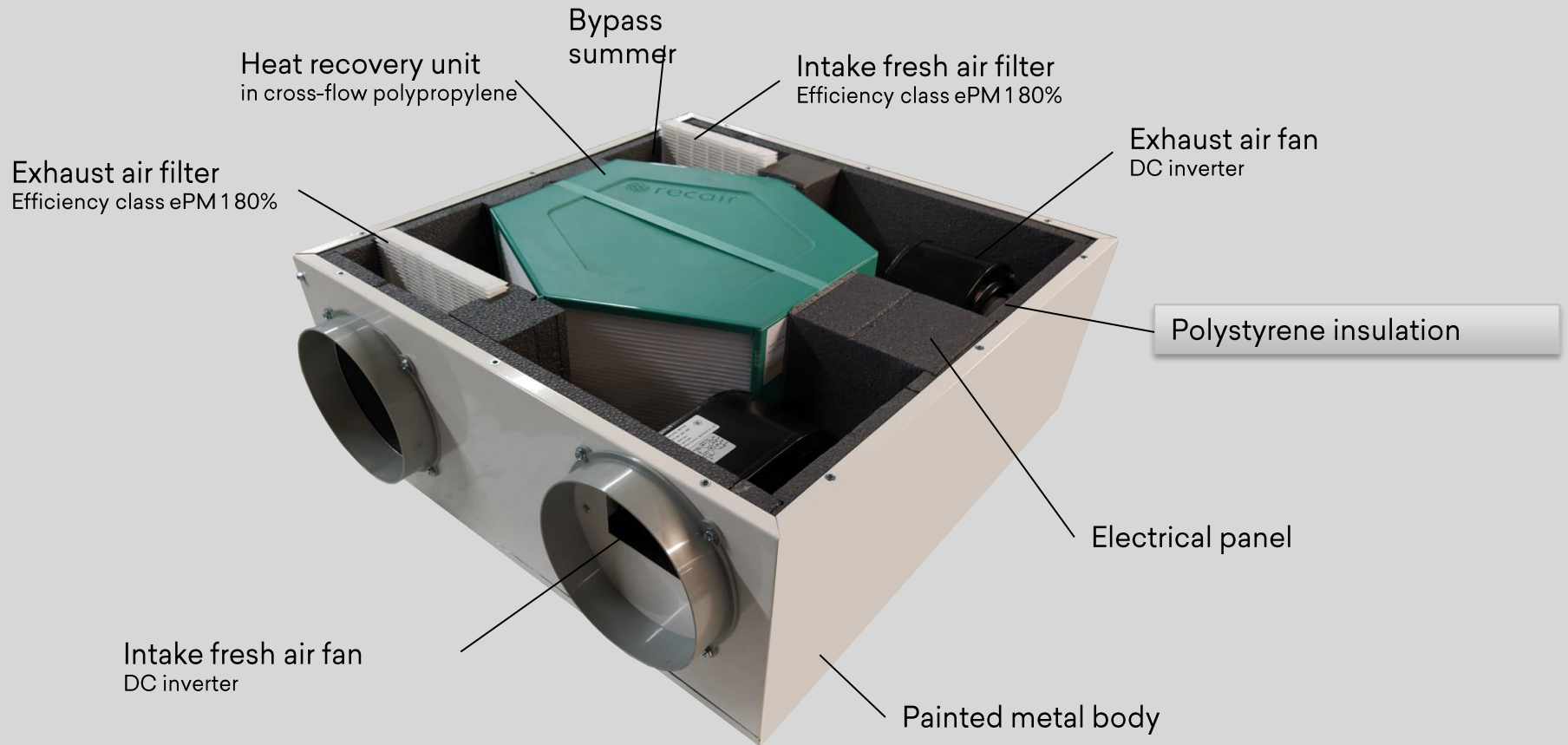
## COSTANT AIR FLOW DC INVERTER CENTRIFUGAL FAN

- intelligent" fans that keep the air flow rate constant by independently increasing or decreasing the speed according to pressure drop in ducts and air filter
- allow constant and accurate quantity of fresh air



# HRP DOMO SMALL

## COMPLETE HEAT RECOVERY, NO DISPERSION



# HRP DOMO SMALL

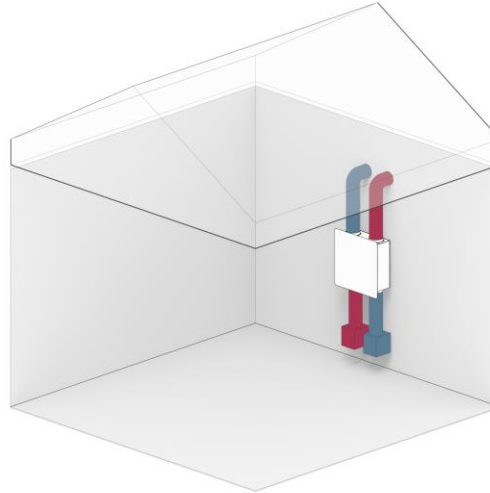


SIMPLE, ADVANCED Wi-Fi OR ModBUS CONTROLS

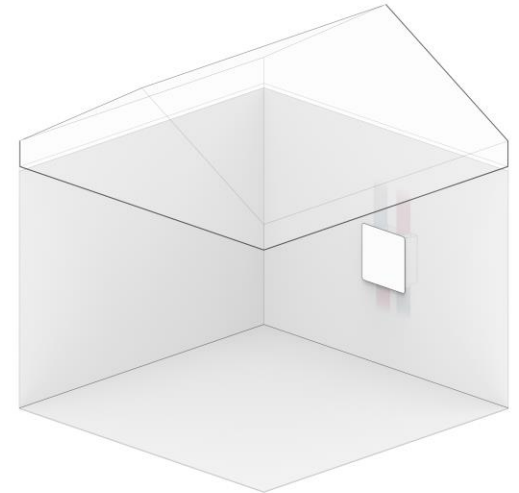
# HRP DOMO SMALL

A SINGLE  
PRODUCT CODE,  
FOUR  
POSSIBLE  
INSTALLATIONS

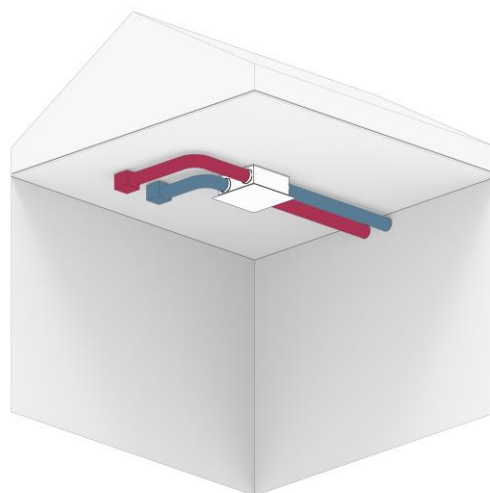
Vertical surface-mounted



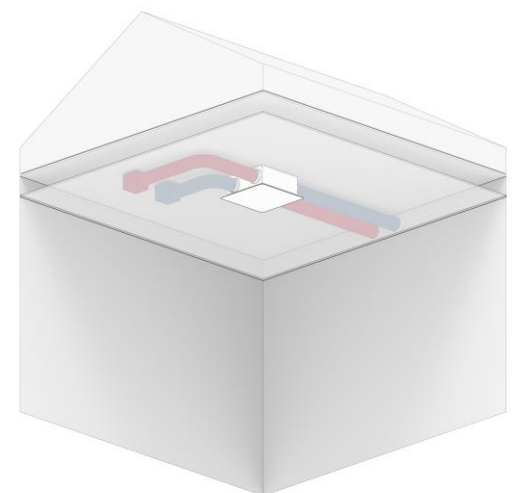
Vertical built-in



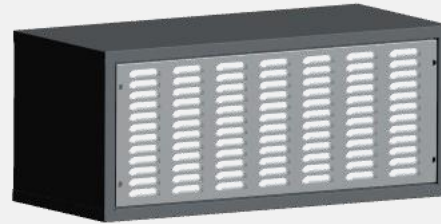
Horizontal surface-mounted



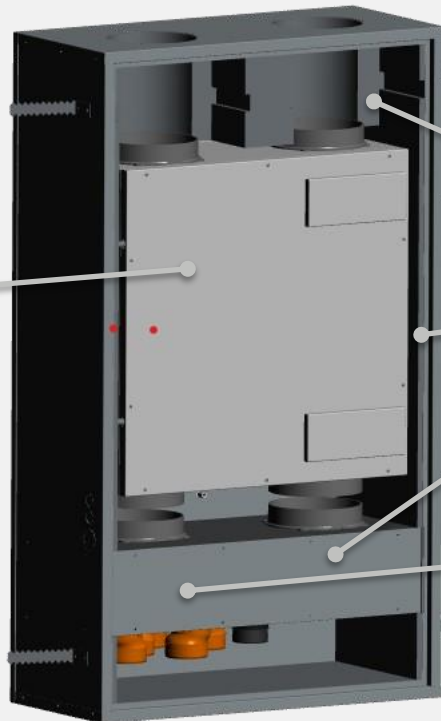
Horizontal built in



## ALL ACCESSORIES FOR A BESPOKE INSTALLATION



**Built in plenum** with external grille for exhaust and external air intake



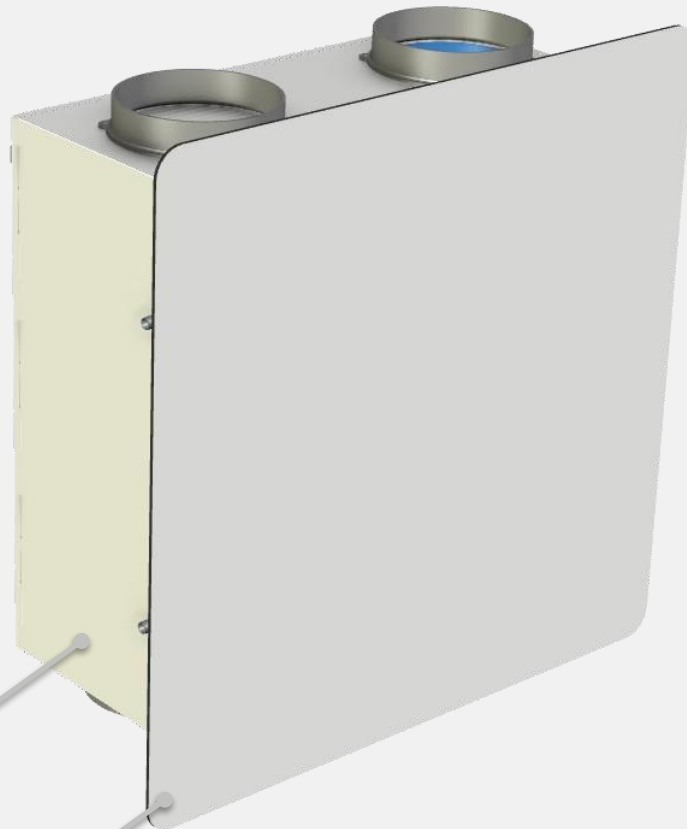
Heat recovery unit  
HRP DOMO SMALL 20

**Built in formwork** includes:

- metal body with anchoring clamps
- polystyrene ducts to connect units/framework connections
- internal insulation in 30mm polystyrene
- exhaust air plenum with #6 connections with calibration damper for DN75 corrugated pipes
- intake fresh air plenum with #6 connections with calibration damper for DN75 corrugated pipes

# HRP DOMO SMALL

A COMPLETE UNIT,  
FOR AN ELEGANT, **SURFACE-MOUNTED**  
**INSTALLATION**



HRP DOMO SMALL

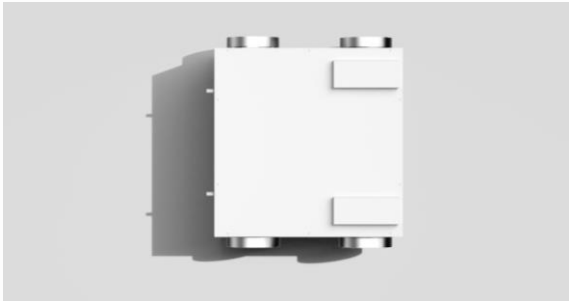
Aesthetic panel





# HRP DOMO SMALL

One size:



HRP DOMO <sup>SMALL</sup> 20

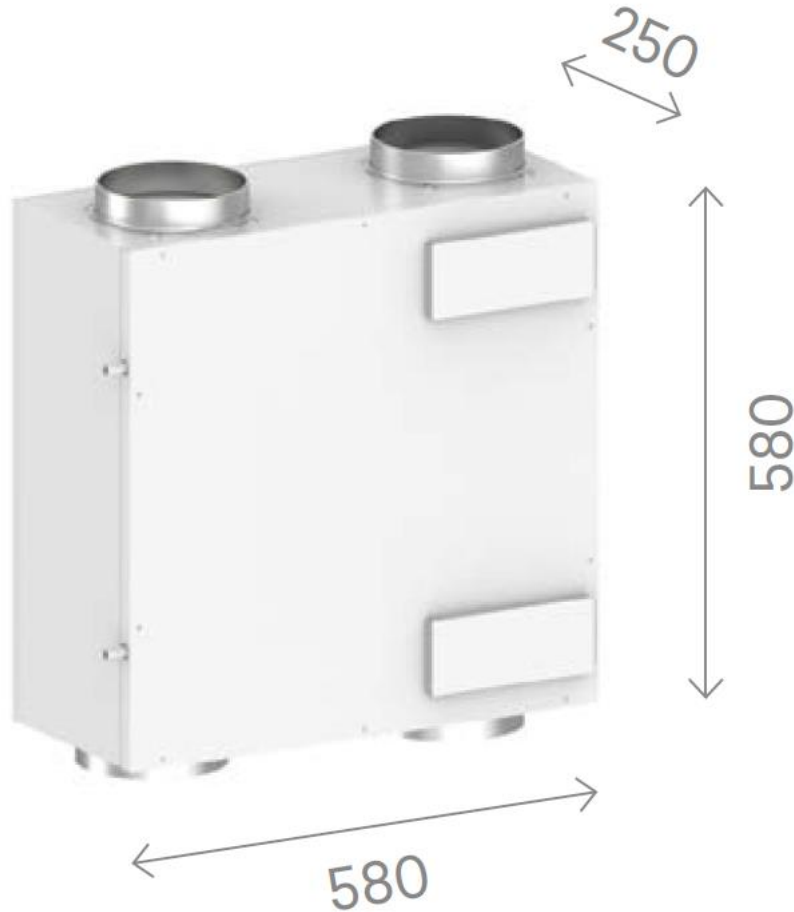
Air flow rate = 160 m<sup>3</sup>/h Available pressure head =100 Pa

Suitable for homes with areas up to 118 m<sup>2</sup> (\*)

(\*) with 0.5 Vol/h and a room height of 2.7m

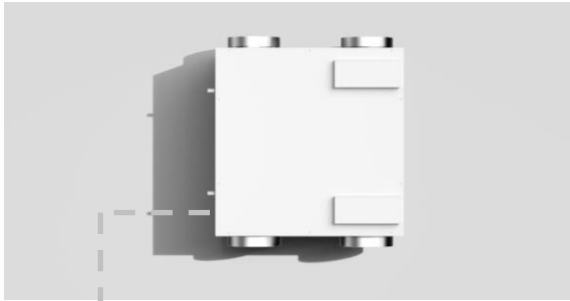
# HRP DOMO SMALL

## COMPACT DIMENSIONS



# HRP DOMO SMALL

On board electronic control connected to  
EDA649-EDB649-EWG649-EWW649 wall mounted panel



Thermostat-unit  
connection with 4-core  
cable



EDB649II colour white



EDA649II colour black

SMART Touch Thermostat  
With **ModBUS** serial port



EWW649II colour white



EWG649II colour black

SMART Touch Thermostat  
With integrated **Wi-Fi**

# HRP DOMO SMALL

## AIR DUCT FITTINGS:

### STANDARD

### VIEW FROM ABOVE

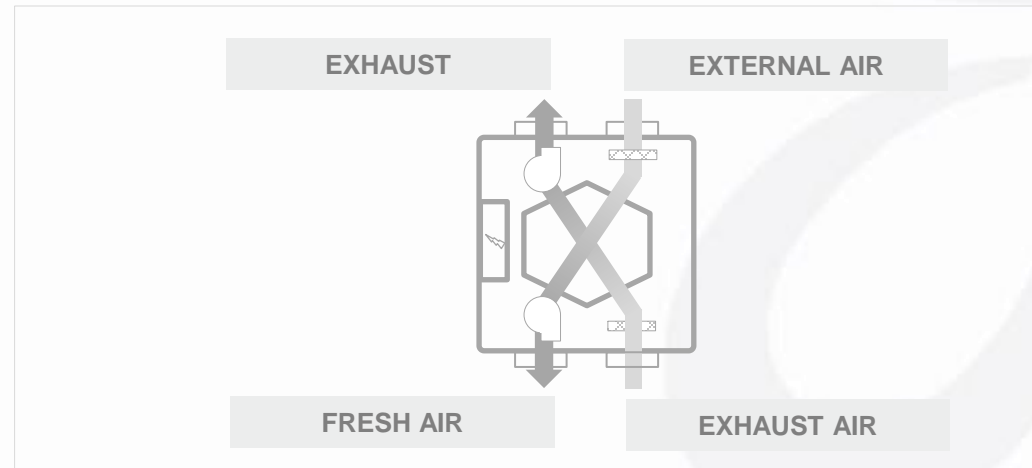
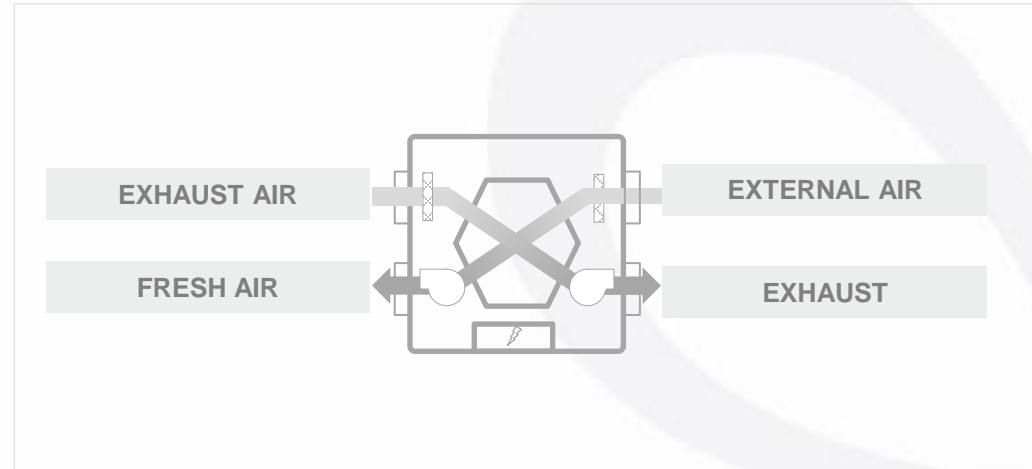
(if the unit is installed horizontally)

or

### FRONT VIEW

(if the unit is installed vertically)

Single code/product for horizontal or vertical installation



# HRP DOMO SMALL

## AIR DUCT FITTINGS:

### On-site connection inversion

### VIEW FROM ABOVE

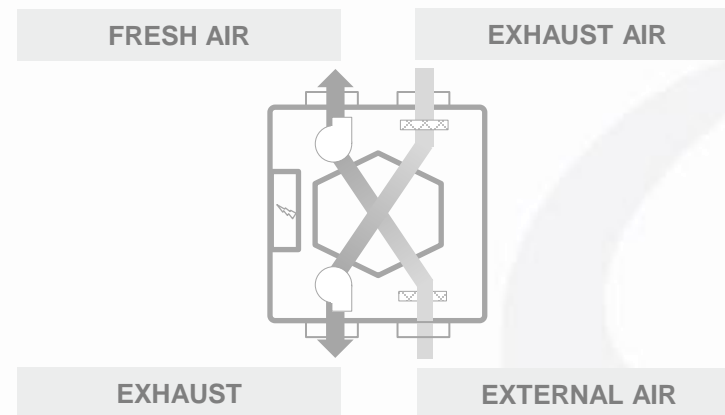
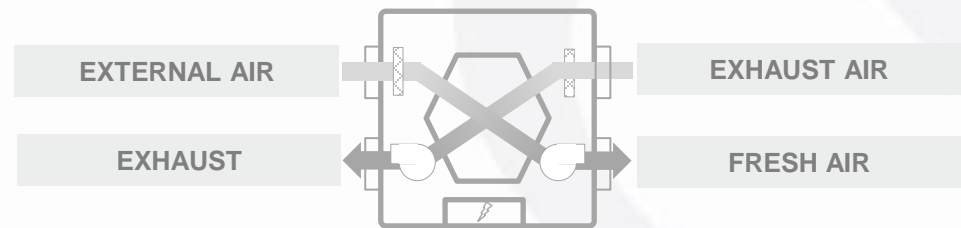
(if the unit is installed  
horizontally)

or

### FRONT VIEW

(if the unit is installed  
vertically)

Connections may be inverted on site with reconnection of  
connectors of probes and fans on circuit board



## HYDRAULIC FITTINGS: CONDENSATE DRAIN

### SIPHON

Supplied with the unit

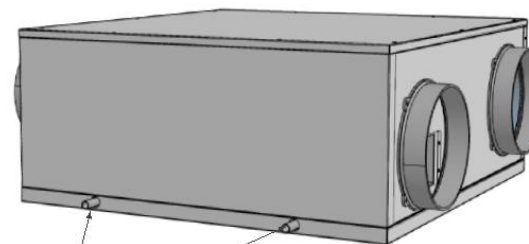


Siphon for horizontal installation



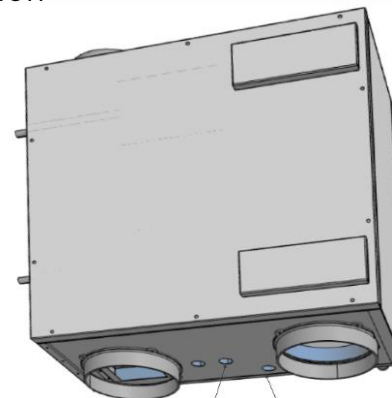
Siphon for vertical installation

Horizontal installation



Condensate drain  
Diam. 20mm

Vertical installation



INGRESSO  
CAVI ELETTRICI

Condensate drain  
Diam. 20mm

# HRP DOMO SMALL

## PERFORMANCE:

TECHNICAL SPECIFICATIONS		HRP DOMO SMALL
Size		20
<b>AIR FLOW RATE</b>		
Nominal fresh air flow rate	m <sup>3</sup> /h	160
Static pressure available	Pa	100
<b>HEATING PERFORMANCE</b>		
Energy class (1)		A
Recovery efficiency (2)	%	82
Static recovery heating power (2)	kW	0.4
<b>GENERAL FEATURES</b>		
Fan		Costant air flow centrifugal DC inverter - DC inverter motor
Fan Quantity	#	2
Static heat recovery unit		Cross-flow plates - polypropylene
Bypass summer		yes
Filters		Flat filters - #2 ePM1 80%
Sound pressure (3)	dB(A)	38.3

(1) Energy classification according to European Regulation 1253/2014 and 1254/2014, taking into account moisture probe accessories/VOC-CO2

(2) Outdoor temperature 7°C, relative humidity 72%. Indoor temperature 20°C, relative humidity 28%. Performance according to UNI 13141-7

(3) Sound pressure in open environment at distance of 3m according to UNI EN3744

# HRP DOMO SMALL

## PERFORMANCE:

TECHNICAL SPECIFICATIONS		HRP DOMO SMALL	
Size		20	
Power input at the maximum fan speed	kW	0.10	
Total power input	kW	0.10	
Current absorbed at the maximum allowed conditions	A	0.8	
Power supply	V/ph/Hz	230/1/50	
<b>SIZES</b>			
Width	mm	580	
Height	mm	250	
Depth	mm	580	
Connections diameter	mm	160	
Condensate drain	mm	20	
Weight	kg	31	
<b>OPERATING LIMITS</b>			
Heating - Indoor air min/max	°C	15/35	
Heating - Outdoor air min/max	°C	-20/20	
Cooling - Indoor air min/max	°C	15/35	
Cooling - Outdoor air min/max	°C	20/45	

(1) Energy classification according to European Regulation 1253/2014 and 1254/2014, taking into account moisture probe accessories/VOC-CO2

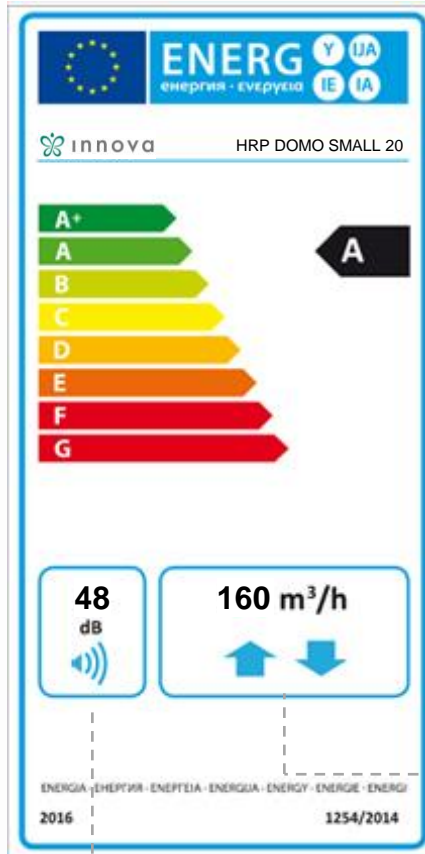
(2) Outdoor temperature 7°C, relative humidity 72%. Indoor temperature 20°C, relative humidity 28%. Performance according to UNI 13141-7

(3) Sound pressure in open environment at distance of 3m according to UNI EN3744



# HRP DOMO SMALL

## ENERGY CLASS ERP:



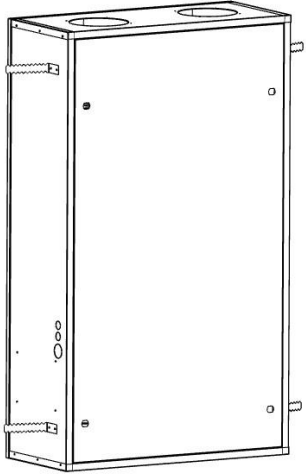
HRP DOMO SMALL 20

Air flow rate

Noise power level dB(A)

# HRP DOMO SMALL

## ACCESSORIES SUPPLIED SEPARATELY:



### FRAMEWORK

Insulated framework for built in installation with connections for internal air distribution (delivery and extraction) for corrugated tube DN75/90 and connections for external air distribution (exhaust air and fresh air intake) for hose DN160

Size W 700 mm x H 1200 mm x D 310 mm

### Plenum with external grilles

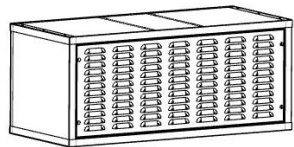
Plenum with external grilles for exhaust and external air intake.

For built in installation.

May be positioned adjacent to the framework or at a distance.

If positioned at a distance, the plenum is connected to the framework using two DN 160 hoses supplied separately.

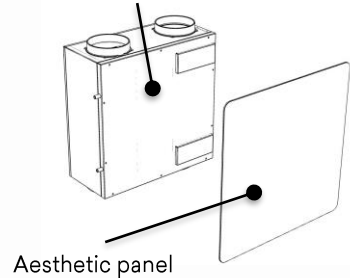
Dimensions W 700 mm x H 300 mm x D 310 mm



# HRP DOMO SMALL

## ACCESSORIES SUPPLIED SEPARATELY:

HRP DOMO SMALL



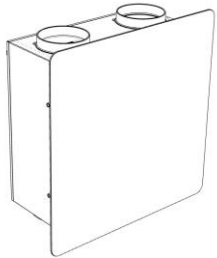
Aesthetic panel

### **Aesthetic cover panel**

The metal panel color is white RAL 9003

Can be used in both vertical and horizontal installations

Dimensions 680 x 680 x 5 mm



## ACCESSORIES SUPPLIED SEPARATELY:



### **SQA AIR QUALITY SENSOR**

Regulator for inner space VOC control with an integrated sensor.

Low/Medium/High VOC level jumper setting. If the sensor level is not satisfied, fan control is set to maximum speed/air flow.

Dimensions W 96.4mm x H 101mm x D 39mm



### **UMR HUMIDISTAT**

On – off room humidistat signal for dehumidification control.

Range 30...90% RH. If the sensor level is not satisfied, fan control is set to maximum speed/air flow

Dimensions W 76mm x H 76mm x D 34mm

## ACCESSORIES SUPPLIED SEPARATELY:



### **ACTIVATED CARBON FILTER**

Active filter consisting of filtering medium F7 activated with mini granules of activated carbon;

Recommended for areas with a high rate of contaminating gases in the outside air (VOC, PAC, OZONE, SO<sub>2</sub>, NO<sub>X</sub>)

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



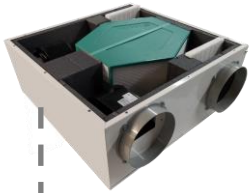
### **REPLACEMENT FILTERS ePM1 80%**

Kit consisting of two filters ePM1 80% for the unit maintenance;

The filters are easily removable through the dedicated inspection doors;

# HRP DOMO SMALL

## CONTROL AND REGULATION DETAILS



On board electronic control connected to  
EDA649-EDB649-EWG649-EWW649 wall mounted panel

Thermostat-unit  
connection with 4-core  
cable



EDA649II colour white



EDA649II colour black

SMART Touch Thermostat  
With ModBUS serial port



EWW649II colour white



EWG649II colour black

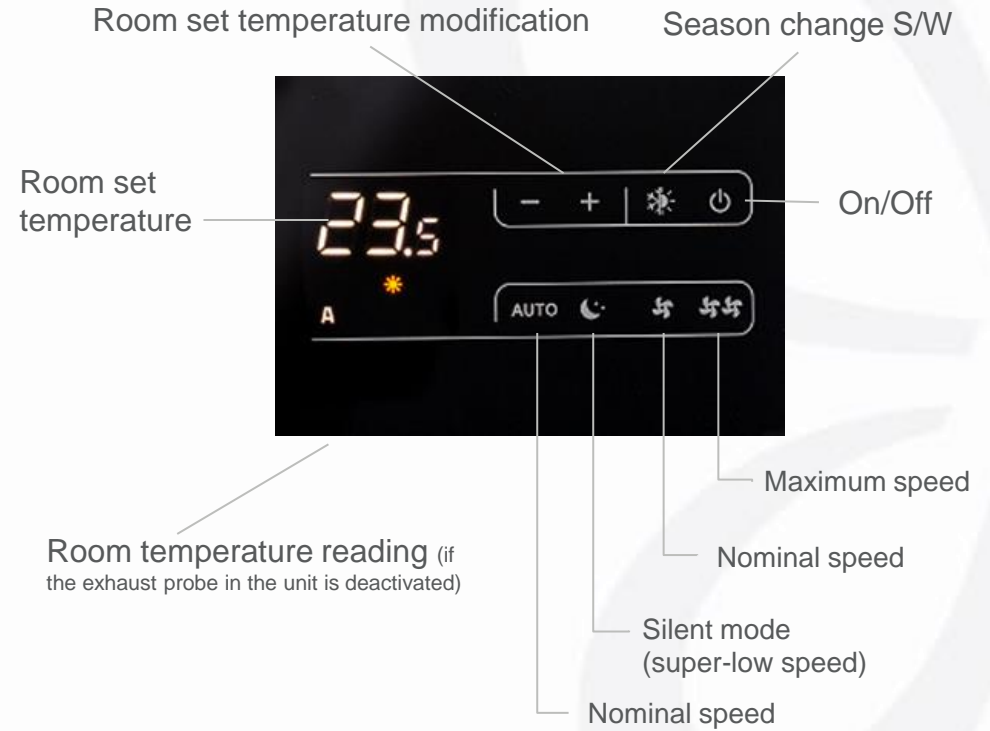
SMART Touch Thermostat  
With integrated Wi-Fi

# HRP DOMO SMALL

## WALL MOUNTED PANEL DETAILS



### Basic functions:



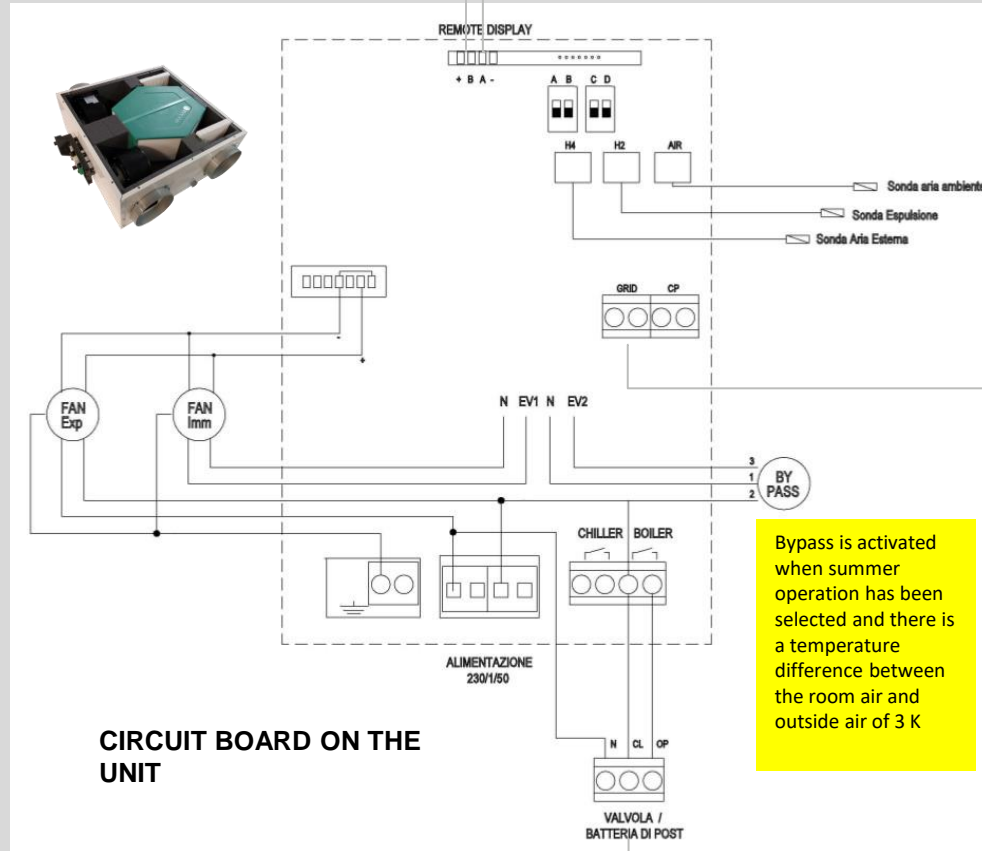
Fan speed/airflow settings

## CONTROL AND REGULATION DETAILS

### REMOTE CONTROL



Remote control is mandatory for operation of the unit with capacitive touch for wall mounting.



**CIRCUIT BOARD ON THE UNIT**

Bypass is activated when summer operation has been selected and there is a temperature difference between the room air and outside air of 3 K

CONNECTION OF UP TO 30 HEAT RECOVERY UNITS MANAGED BY THE SAME REMOTE CONTROL



The control manages automatic frost protection in winter using the room air and external air probe

### OPTIONAL SENSORS



**Air quality sensor** with Low/Medium/High jumper setting

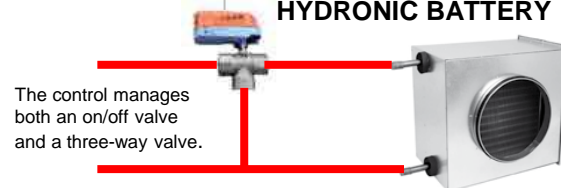


**Relative humidity sensor** with desired setting

Both sensors may be connected in parallel.

If the sensor level is not satisfied, fan control is set to maximum speed/air flow.

### HYDRONIC BATTERY

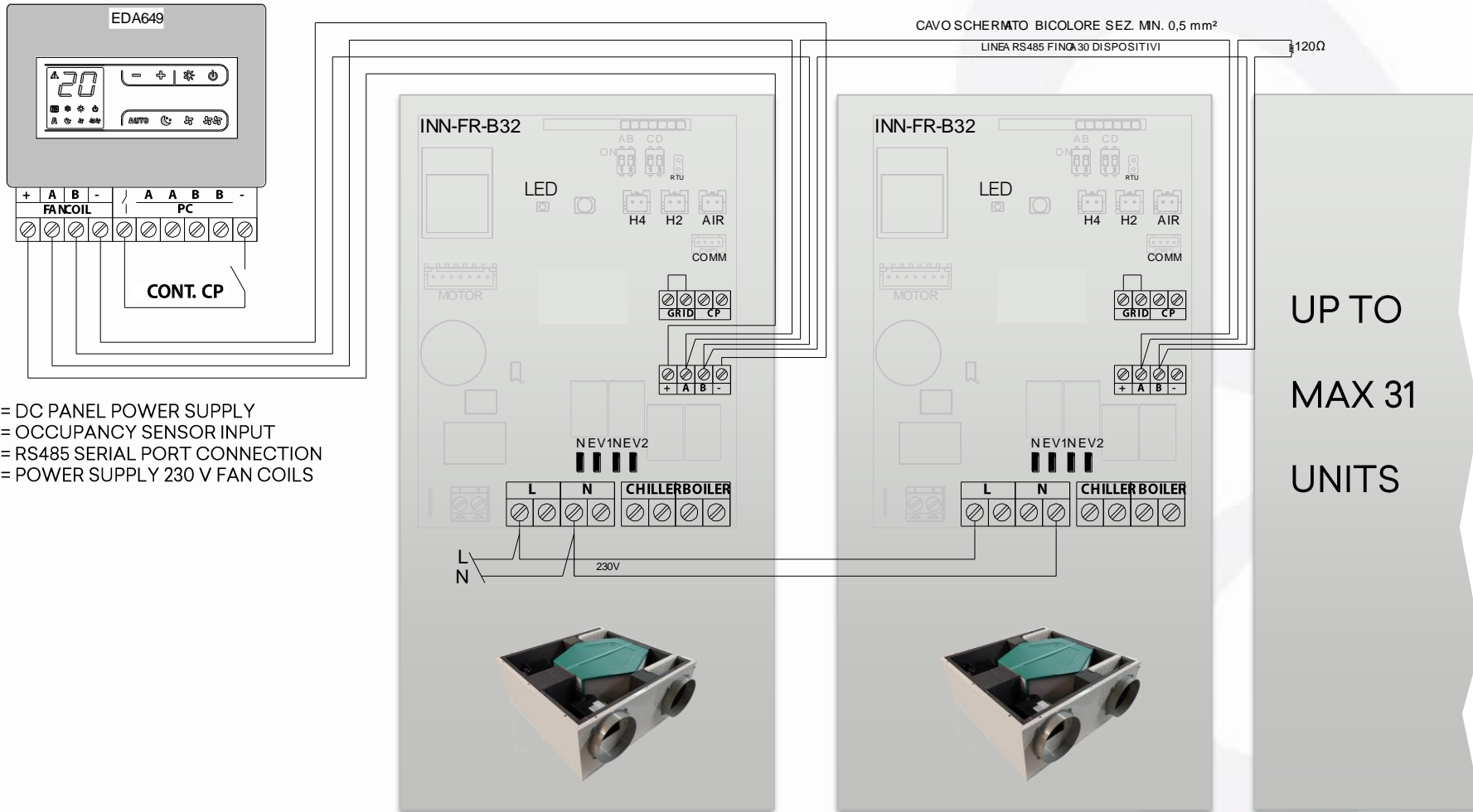


The control manages both an on/off valve and a three-way valve.



# HRP DOMO SMALL

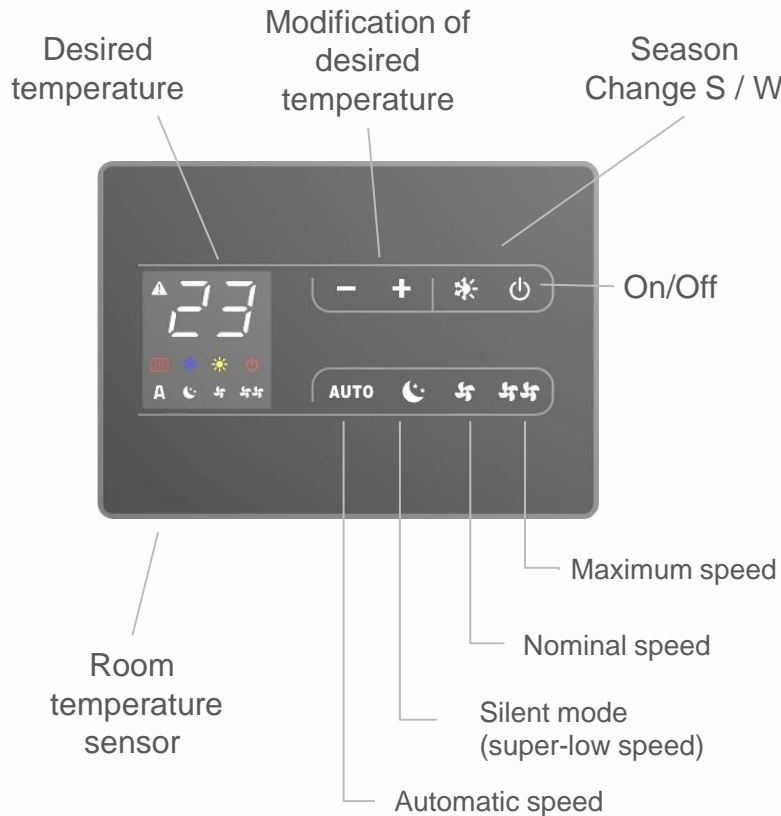
## MANAGEMENT OF UP TO 31 UNITS USING A SINGLE THERMOSTAT: EDA649 / EDB649 / EWG649 / EWW649



- + - = DC PANEL POWER SUPPLY
- CP = OCCUPANCY SENSOR INPUT
- AB = RS485 SERIAL PORT CONNECTION
- L-N = POWER SUPPLY 230 V FAN COILS

# HRP DOMO SMALL

## WALL MOUNTED PANEL: EDA649 / EDB649 / EWG649 / EWW649



### Brightness

After 20 seconds from the last action the panel brightness will be reduced for improved night-time comfort, and the room temperature will appear on the display. Press any button to restore maximum brightness.

### Button functions

+	Increases the temperature by 0.5 °C	☀️	Seleziona la stagione
-	Decreases the temperature by 0.5 °C	⏻	Accende o pone in stand by il fancoil
🌙	Funzione notturna	🌀	Funzionamento alla minima velocità
AUTO	Automatic operation with modulation	🌀🌀	Funzionamento alla massima velocità

### LED Signals

A	Automatic operation active	☀️	Funzionam. raffrescamento attivo
🌀	Funzionam. vel. minima attivo	⚠️	Lampeggiante: funzionam. da remoto
🌀🌀	Funzionam. vel. max attivo	⚠️	Fisso: allarme
🌙	Funzionam. notturno super silent attivo	⏻	Segnalazione fancoil spento
☀️	Funzionam. riscaldamento attivo	🚫	Inactive

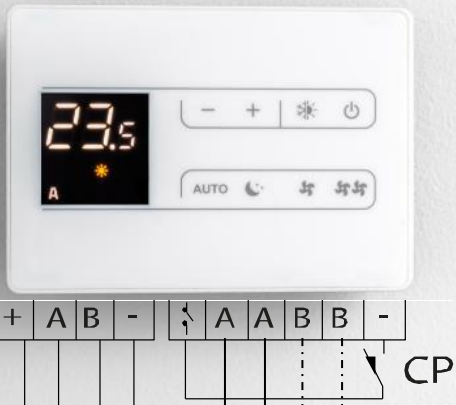

### Alarm signals

CODE	DESCRIPTION	CAUSE	SOLUTION
E1	Intake Probe Alarm	Probe breakage and read failure	Check probe connection or replace
E2	Fan alarm	Fan connector or feedback signal absent	Check connection of board connector to fan
E3	H4 exhaust Probe Alarm	Probe breakage and read failure	Check probe connection or replace
E5	H4 external air Probe Alarm	Probe breakage and read failure	Check probe connection or replace
NO LINK	Communication alarm	Check for green LED on board;	Check the status of indicator LED on board
ACL	Dirty filter alarm	Operating hours per dirty filter reached (default = 0)	Check state of filter and press and hold the on off button to reset the signal;

# HRP DOMO SMALL

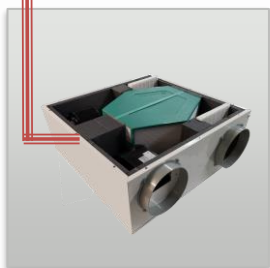
## CONNECTIVITY:

EDA649 colour black  
EDB649 colour white



CP

**BUTLER**  
(or BMS)



EWG649 colour black  
EWW649 colour white

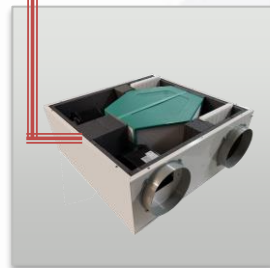


CP



**APP**

[www.innovaenergie.com](http://www.innovaenergie.com)






## BUTTON LOCK FUNCTION: EDA649 / EDB649 / EWG649 / EWW649

- By pressing both the **+** and **-** buttons for 1 second, all buttons are locked locally, and this is indicated by "LOC" which appears on the display.
- All actions are prohibited to the user and whenever any button is pressed, "LOC" will appear.
- To deactivate the local button lock, press the **+** and **-** buttons once more.



## SPECIAL FUNCTIONS: EDA649 / EDB649 / EWG649 / EWW649

### Advanced INSTALLER menu, available from 2020

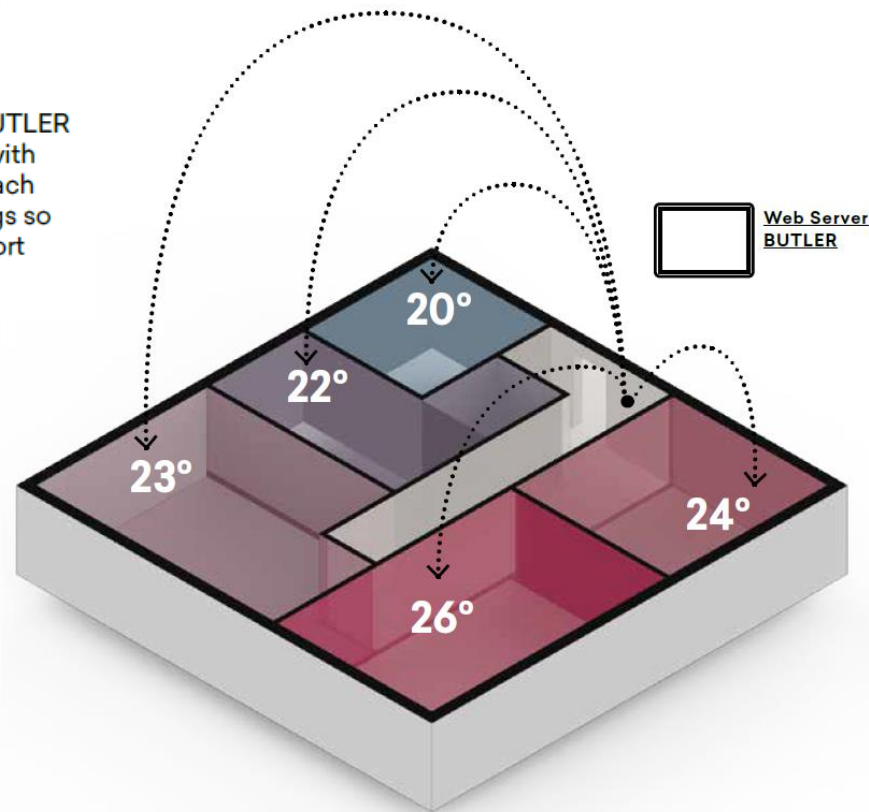
- To access, press and hold the power button  for 10 seconds
- The control will switch on and display the room temperature
- If press and held again, the following lettering will appear: **Ad**
- To navigate around in the menu, use the icons **+** and **-**
- To select menu items and confirm the changes, press 
- To exit the menu, press  for 10 seconds or wait 30 seconds without executing any commands. The display will switch off and the settings will be stored in memory

<b>Ad</b>	Control modbus address	<b>rb</b>	Mobdus reset
<b>uu</b>	Wi-Fi antenna enable	<b>Fr</b>	Factory reset
<b>Ub</b>	Buzzer volume control	<b>ot</b>	Room T-probe offset
<b>br</b>	Display brightness adjustment	<b>oH</b>	Room U.R. probe offset (inactive)
<b>di</b>	CP digital input management	<b>Sc</b>	Temperature display scale
<b>rZ</b>	Radiant zone management (only with EF1027)	<b>rE</b>	Resistance option (inactive)
<b>Ld</b>	Not used		

# BUTLER, advanced system control

## Room by room control

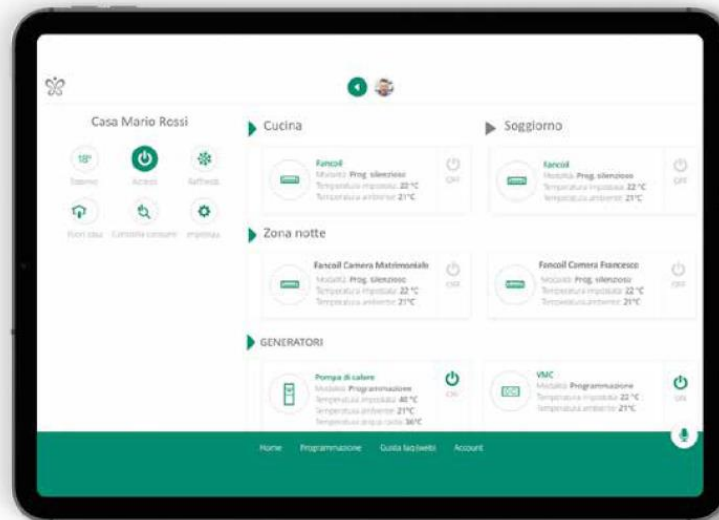
You can control each room with BUTLER by configuring a weekly calendar with time bands, creating settings for each room or area, modifying the settings so your home is at just the right comfort level for your needs.



# BUTLER, advanced system control

## Principal functions

- **Monitoring and control in local network or remotely**  
The system can be managed by any smartphone, tablet or computer
- **Personalised winter and summer programming**  
You can have different programmes for every season
- **Three temperature level setting on INNOVA fan coil network**  
For each room or area, you can select 3 different operating temperatures, which can be modified at any time
- **Weekly programming schedule**  
You can set the schedule for the different functions for each room; the same can be done for HRV and fan coils
- **PC-type network interface**  
Once the bus network has been set up between the heat pump and the fan coils, the connection to the web server is the same as a standard computer
- **Remote assistance**  
With the consent of the user, BUTLER can automatically enter the INNOVA cloud for diagnostics and assistance if it is needed



## Weekly scheduling



## Domestic hot water settings

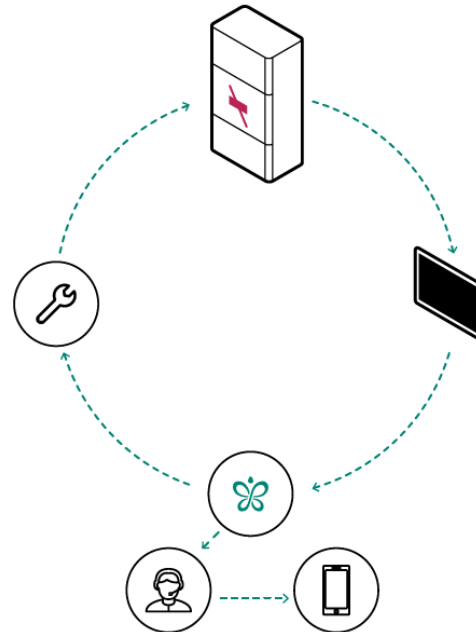


# BUTLER, advanced system control



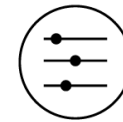
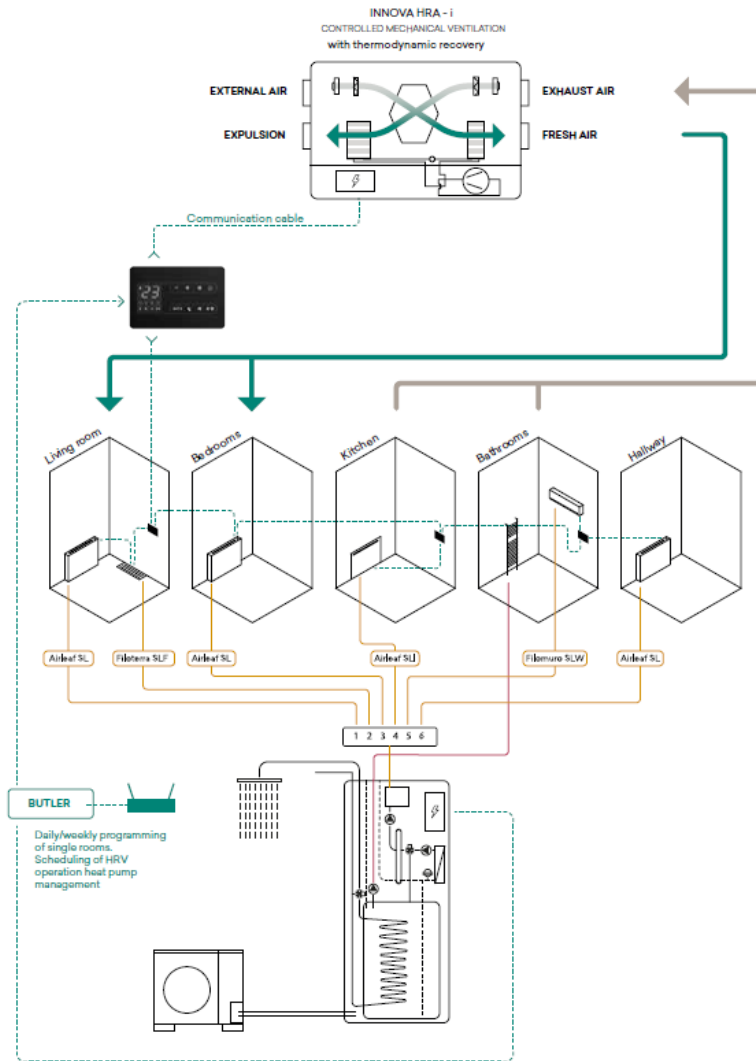
## Remote assistance

With the consent of the user, BUTLER can automatically enter the INNOVA cloud for diagnostics and assistance, if needed. Thanks to the internet connection, it is possible to check if the INNOVA products connected to the BUTLER are working correctly. Any malfunctions can be automatically sent to the BUTLER at the support centre which can intervene by modifying the operating parameters or deciding to intervene in person, thus providing a fast and prompt service.





# BUTLER, advanced system control



Total control

The advantage of choosing a complete INNOVA system is that we are your single point of contact for scheduled maintenance and support. A complete, quality service.

End of presentation  
Thank you for your time