



## **2.0 RINNOVA**

Thermodynamic  
heat recovery  
ventilation units



**High performance,  
easy to install, air  
renewal units.**

# Why should we renew indoor air?



## It is necessary to improve the indoor air quality

Especially in crowded environments such as shop, public offices, schools, etc.



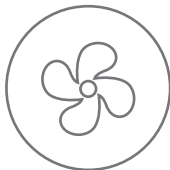
## Adopt solutions indicated by reliable sources

AiCARR (Culture and Technique for Energy Man and Environment), REHVA (Federation Of European Heating, Ventilation and Air Conditioning Associations), ASHRAE (Organization dedicated to advancing the arts and sciences of heating, ventilation, air conditioning and refrigerant).



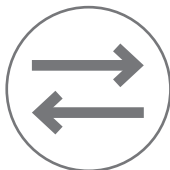
## Outdoor air is the best solution to reduce indoor pollutants

(viruses, cleaning products, dust, VOC, CO<sub>2</sub>, etc.).



## Use a mechanical ventilation system

Simply opening the windows is not enough and not comfortable.



## The fresh intake air must not be polluted by the stale air that is extracted



## The fresh intake air must be heated or cooled to maintain the correct room temperature

## 2.0 RINNOVA

Easy, low impact and high performing solutions.



### Easy to install

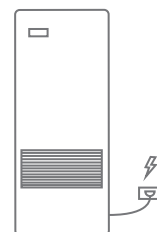


Ø 162mm

Make 2 holes in the perimeter wall



Install the unit

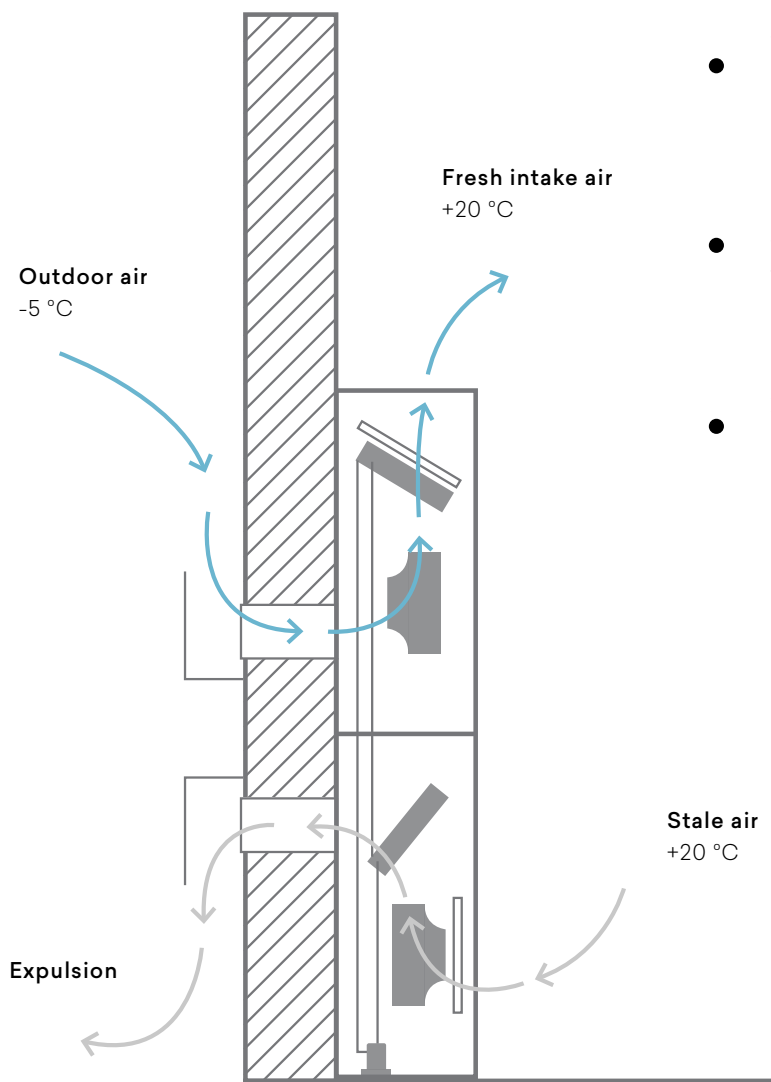


Connect the power supply



## The thermodynamic heat recovery

- Complete and safe separation between the exhaust air and the fresh intake air
- Thermodynamic recovery takes heat from stale air and transfers it to the fresh intake air
- In most severe conditions (e.g. external T.  $-5\text{ }^{\circ}\text{C}$ ) the fresh intake air is at the same temperature as the extracted air,  $20\text{ }^{\circ}\text{C}$ .
- At middle conditions (e.g. external T.  $15\text{ }^{\circ}\text{C}$ ) the fresh intake air is warmer and contributes to the heating of the room. Similarly, this also happens for summer cooling.



## 2.0 RINNOVA

Units for air renewal and purification with thermodynamic heat recovery



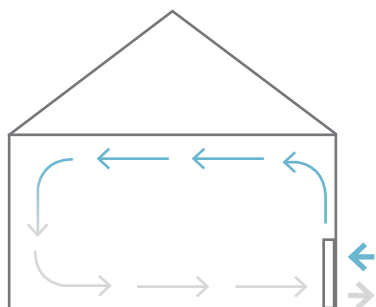
### 2.0 RINNOVA VERTICAL

320  
m<sup>3</sup>/h

Fresh air intake flow 320 m<sup>3</sup>/h (booster 380 m<sup>3</sup>/h)

12

For rooms up to 12 people (25 m<sup>3</sup>/h per person, example referred to the fresh air intake flow rate for school environments according to UNI 10339)



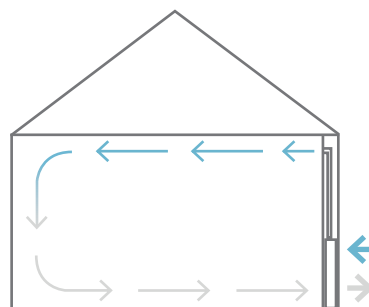
### 2.0 RINNOVA VERTICAL BUILT-IN

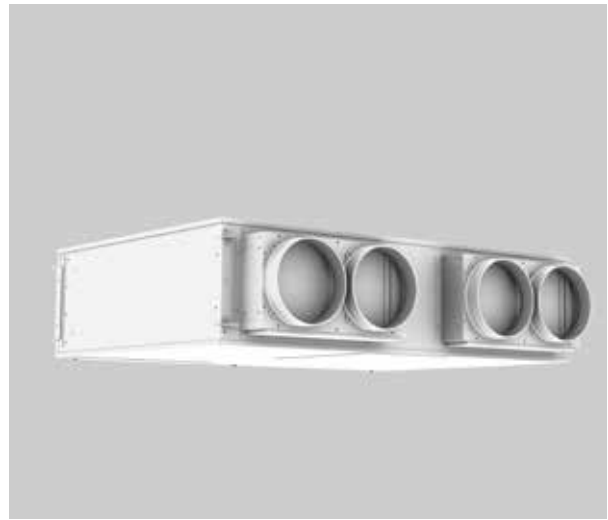
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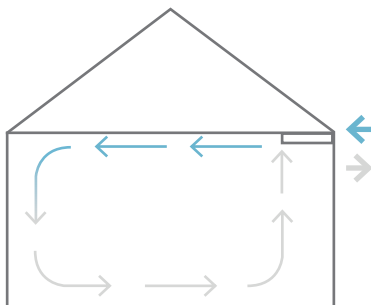
## 2.0 RINNOVA CEILING

400  
m<sup>3</sup>/h

Fresh air intake flow 400 m<sup>3</sup>/h (booster 460 m<sup>3</sup>/h)

16

For rooms up to 16 people (25 m<sup>3</sup>/h per person, example referred to the fresh air intake flow rate for school environments according to UNI 10339)



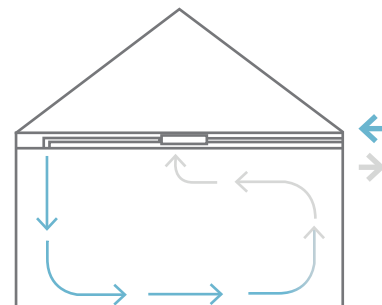
## 2.0 RINNOVA DUCT

400  
m<sup>3</sup>/h

Fresh air intake flow 400 m<sup>3</sup>/h (booster 460 m<sup>3</sup>/h)

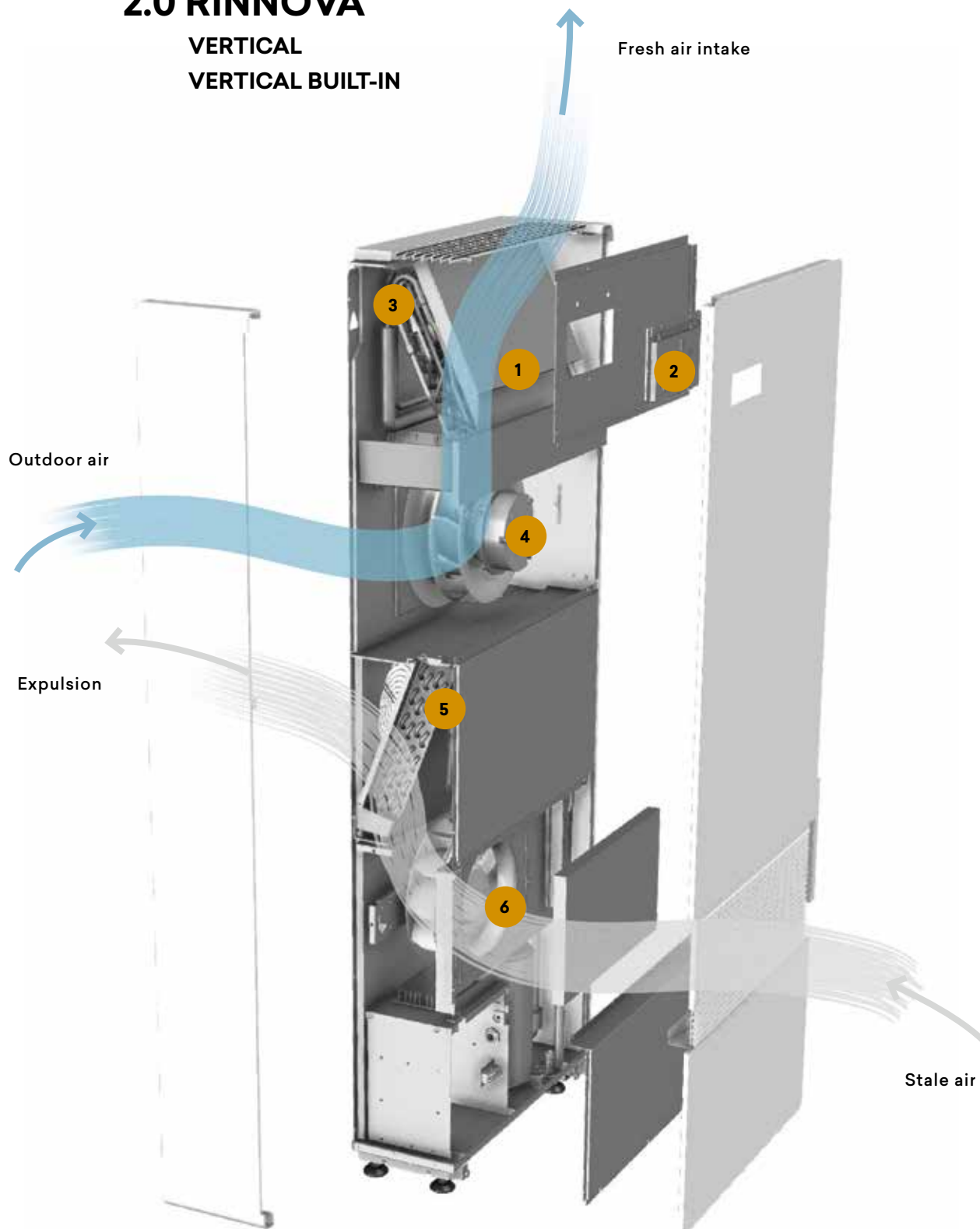
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For rooms up to 16 people (25 m<sup>3</sup>/h per person, example referred to the fresh air intake flow rate for school environments according to UNI 10339)



## 2.0 RINNOVA

VERTICAL  
VERTICAL BUILT-IN

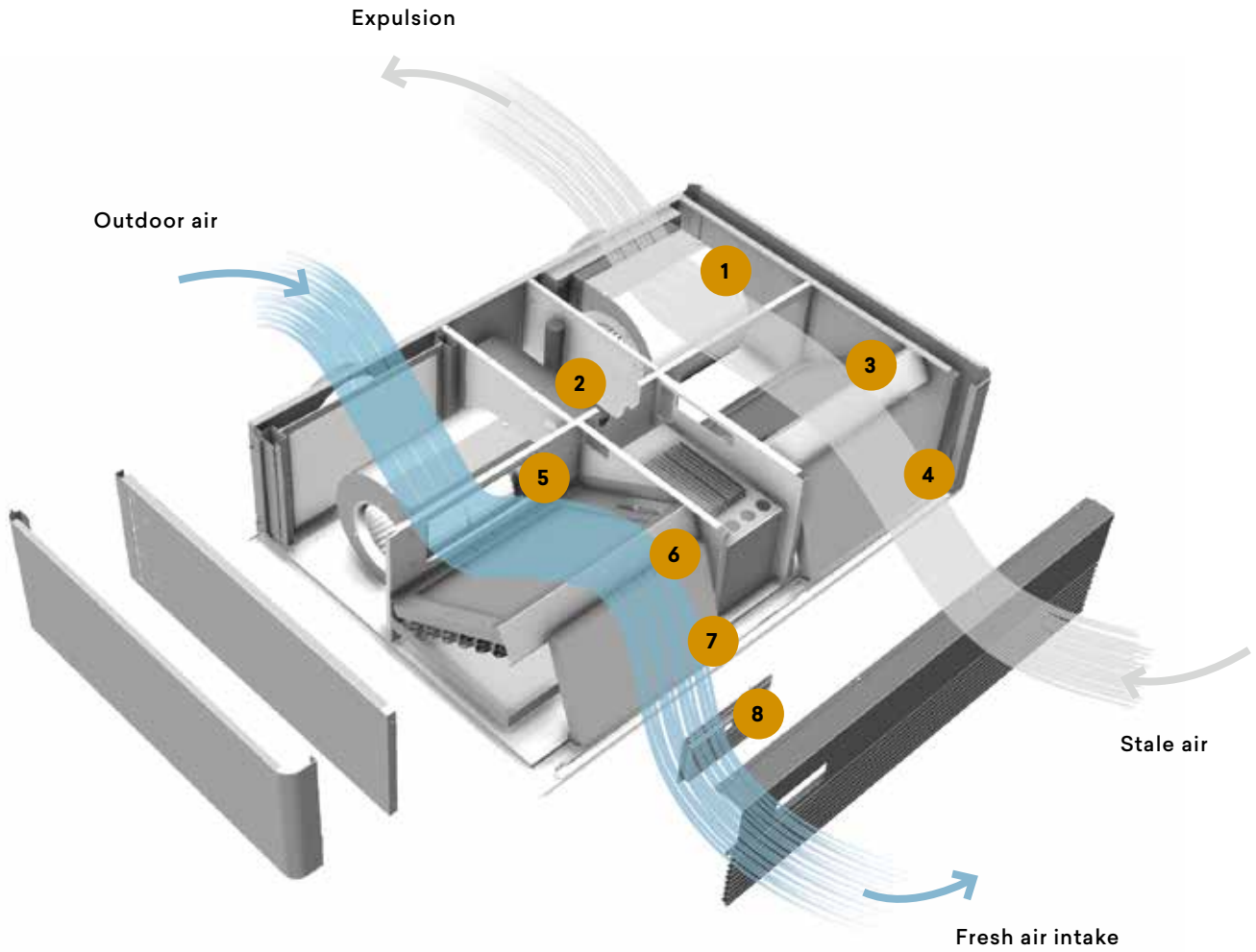


1. 80% ePM1 filter
2. Control display
3. Internal exchanger
4. DC Inverter radial fan
5. External exchanger
6. DC Inverter radial fan
7. 80% ePM1 filter
8. DC Inverter compressor



# 2.0 RINNOVA

## CEILING DUCT



1. DC Inverter centrifugal fan with constant flow
2. DC Inverter compressor
3. External exchanger
4. 80% ePM1 filter
5. DC Inverter centrifugal fan with constant flow
6. Internal exchanger
7. 80% ePM1 filter
8. Control display

## UV-C LAMP OPTION

UV rays are divided into three bands; UV-A (long waves), UV-B (medium waves) and UV-C (short waves).

UV-C include the largest portion of the entire UV spectrum and have a strong germicidal effect because they can alter the molecular structure of the DNA. The simpler the structure of a microorganism, the easier it will be to inactivate it through UV radiation.

UV-C is the germicidal belt used to kill microorganisms in hospitals, laboratories, in water treatment, in the production of drinks, in the transformation of food products and in the pharmaceutical field. Thanks to new technologies, UV-C can be used to destroy the contagious diseases that circulate in the air.



### Benefits

- **Eliminates mold, bacteria and viruses**

It uses UV-C germicidal irradiation (ultraviolet-C) as an effective method of inactivating mold, bacteria and viruses.

- **Prevents the spread of diseases**

It prevents the spread of infectious diseases caused by bacteria and viruses.

- **Does not harm health**

It does not produce ozone or secondary contaminations, it does not harm the people who occupy the building or the equipment.

- **Keeps the components of the unit clean**

It constantly keep the battery and the blow clean to collect condensate drain, plenums and channels, reducing or eliminating cleaning processes and the use of harmful chemical products and disinfectants.

- **2.0 RINNOVA can be supplied with UV-C lamp factory installed**



# CONTROLS

## Control display on the unit

- Touch interface
- Modulating speed
- Integrated WiFi
- Availability of all mode, temperature and special function settings



## Handset remote control

- Ventilation speed control and settings



## Smart Touch remote wall controls

- Touch interface
- Modulating speed
- Unit control and settings: seasonal setting, temperature set point, ventilation speed
- Connectivity: WiFi or Modbus



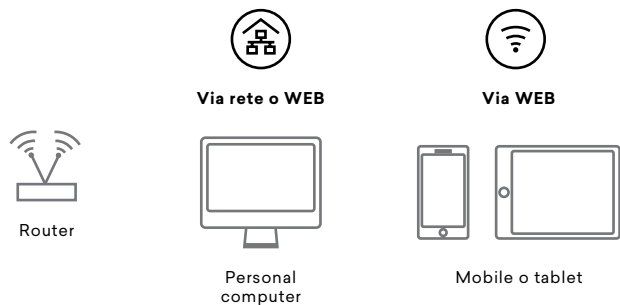
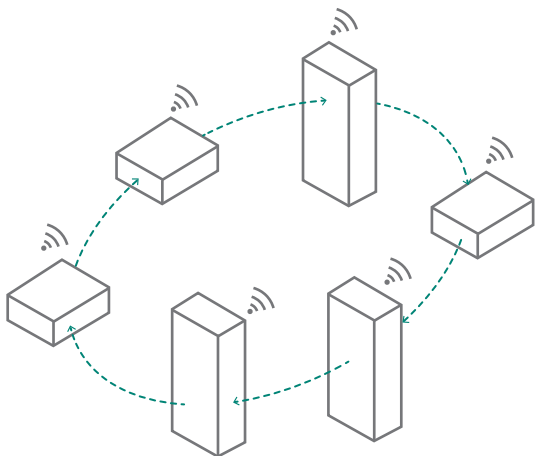
### 2.0 RINNOVA VERTICAL AND CEILING

Control display on board unit and remote control supplied as standard.

### 2.0 RINNOVA VERTICAL BUILT-IN AND DUCT

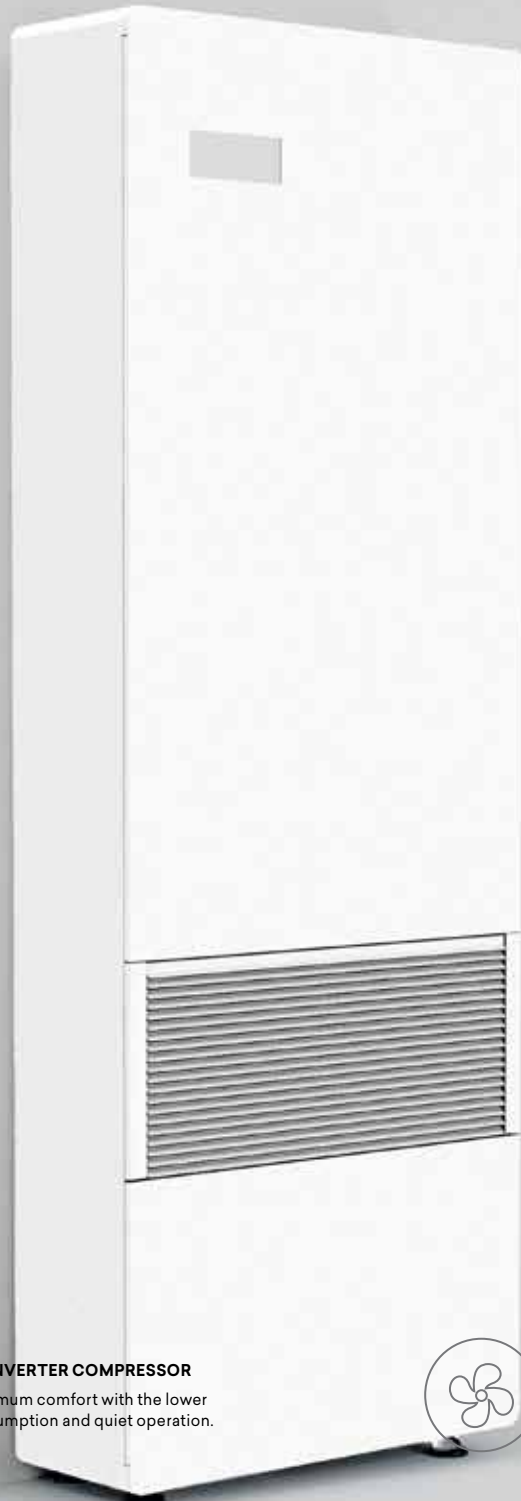
For correct operation, the wall control connected to the unit with a cable is mandatory.

## CENTRALIZED MANAGEMENT VIA WIFI



The 2.0 RINNOVA units can be managed from a single location and communicate via WiFi without the need for a cable connection.

# 2.0 RINNOVA VERTICAL



#### DC INVERTER COMPRESSOR

Maximum comfort with the lower consumption and quiet operation.



#### FRESH AND PURIFIED AIR

Renewal air and filtration air, with ePM1 80% filters.



#### AIR QUALITY CONTROL

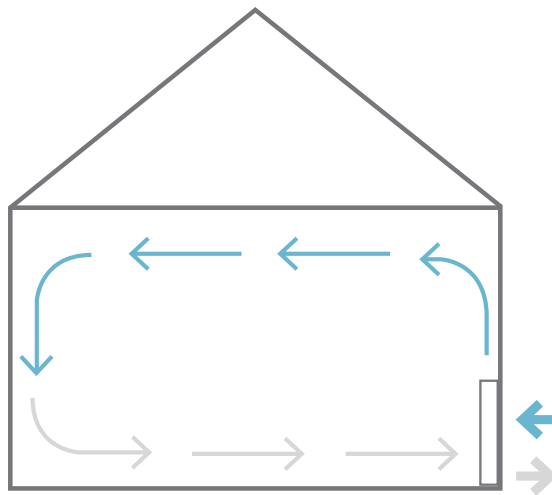
Through the CO<sub>2</sub>, VOC, temperature and humidity sensors, it automatically adjusts the operation of the unit.



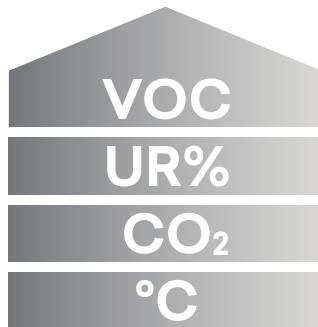
#### WIFI REMOTE CONTROL

# 2.0 RINNOVA VERTICAL

CONTINUOUS AIR RENEWAL



INTEGRATED AIR QUALITY, HUMIDITY AND TEMPERATURE SENSORS



SIMPLE AND ADVANCED CONTROLS WITH INTEGRATED WIFI



Integrated touch-screen



Handset control

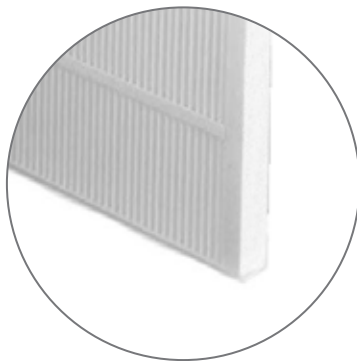


iOS and Android APP



Smart touch WIFI or Modbus remote control (optional)

FILTRATION WITH EFFICIENCY CLASS ePM1 80%




VERTICAL FLOW




# 2.0 RINNOVA VERTICAL


Thermodynamic heat recovery ventilation unit.

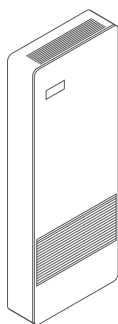
-  Fresh air flow 320 m³/h




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-  Exposed vertical installation

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-  DC Inverter Compressor



-   
Width  
500 mm
-   
Height  
1398 mm
-   
Depth  
185 mm

<b>COMV12VC3II</b>	2.0 RINNOVA VERTICAL 30	Nominal fresh air flow 320 m³/h Total heating capacity: 3,10 kW Total cooling capacity: 2,41 kW
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Standard supply:

- soft touch control display on the unit with integrated WIFI
- handset remote control
- installation template
- wall fixing bracket
- DN 160 external grilles kit, internal flanges and plastic protection film
- external anti bypass covers
- adjustable feet

ACCESSORY DESCRIPTION	CODE
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### CONTROLS

Smart touch electronic wall control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), BLACK color	ECA031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), WHITE color	ECB031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), BLACK color	ECA032II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), WHITE color	ECB032II

### AIR STERILIZATION

Germicidal lamp with UV-C rays with power supply and fixings. The lamp life is estimated at 10,000 operating hours	GB1094II
UV-C lamp spare part	GB1095II

### GRILLES AND ACCESSORIES

Kit n. 2 external grilles with fixed fins DN 160	GB0738II
Kit n. 2 insect protection. Applicable only on fixed grids DN 160	GB0755II

### SPARE PARTS FILTERS

Kit 2 filters ePM1 80% fresh air delivery and exhaust	GR1134II
Outdoor air intake Coarse filter kit	GR1135II

### 3.0

Condensate nebulizer To be coupled to eliminate the condensate	COVA00102II
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## TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS 2.0 RINNOVA VERTICAL		2.0 RINNOVA VERTICAL
Size	u.m.	30
<b>AIR FLOW RATE</b>		
Fresh air flow rate B/3/2/1 (1)	m <sup>3</sup> /h	380 / 320 / 190 / 130
Static pressure available (2)	Pa	-
<b>HEATING PERFORMANCE</b>		
Total heating capacity (3)	kW	3,1
Space heating capacity without fresh air load (3) (4)	kW	0,38
Total power input (3)	kW	0,71
COP (3)		4,4
<b>COOLING PERFORMANCE</b>		
Total cooling capacity (5)	kW	2,41
Space cooling capacity without fresh air load (5)	kW	0,76
Total power input (5)	kW	0,73
EER (5)		3,3
<b>GENERAL FEATURES</b>		
Fans	int/ext	Radial / Radial
Fans Quantity	Nr	2
Heat recovery		Thermodynamic
Compressor		Rotary Inverter DC
Filters		Flat filters - 2 x ePM1 80%
Sound pressure (6)	dB(A)	41
Refrigerant		R410a
<b>ELECTRICAL DATA</b>		
Max Fans power input	kW	0,1
Max Compressor power input	kW	0,95
Max Total power input	kW	1,05
Max current absorbed	A	4,8
Power supply	V/ph/Hz	230/1/50
<b>DIMENSIONS</b>		
Width	mm	500
Depth	mm	1398
Profondità	mm	185
Connections diameter	mm	162
Condensate drain	mm	20
Weight	kg	53
<b>OPERATING LIMITS</b>		
Heating - Indoor air min/max	°C	10 / 25
Heating - Outdoor air min/max	°C	-15 / 20
Cooling - Indoor air min/max	°C	18 / 28
Cooling - Outdoor air min/max	°C	15 / 38

(1) B = booster, V3 = nominal flow at maximum speed, V2 = medium speed flow, V1 = flow at minimum speed

(2) The fresh air supply and exhaust air intake are directly in the room

(3) Heating capacity at nominal air flow. Outdoor air temperature -5 °, relative humidity 80%. Ambient temperature 20 ° C; relative humidity 50%, nominal air flow

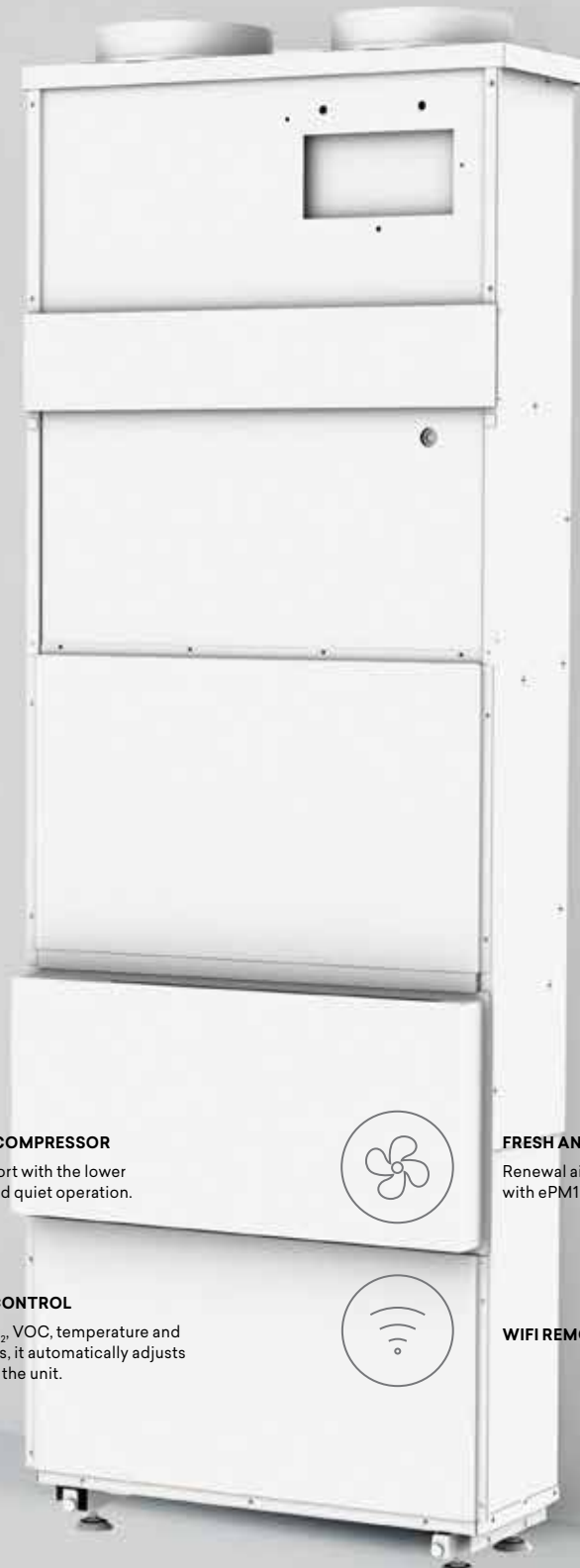
(4) Space heating capacity = Total heating capacity - Ventilation load  
Ventilation load = capacity to heat nominal fresh air flow of the unit from -5°C outdoor air to 20°C indoor air

Example:  
Space heating capacity = Total heating capacity - Fresh air load = 3.1 - (Q x c x DT)  
= 3.1 - (320x0.34 x 25/1000) = 3.1 - 2.72 = 0.38 kW  
Q = nominal air flow  
DT = delta T = indoor air temp. - outdoor air temp.

(5) Cooling capacity at nominal air flow. Outdoor air temperature 35 °, relative humidity 50%. Ambient temperature 27 ° C; relative humidity 60%, nominal air flow

(6) Sound pressure at nominal flow rate in open field at a distance of 3m according to UNI EN3744

# 2.0 RINNOVA VERTICAL BUILT-IN



#### DC INVERTER COMPRESSOR

Maximum comfort with the lower consumption and quiet operation.



#### FRESH AND PURIFIED AIR

Renewal air and filtration air, with ePM1 80% filters.



#### AIR QUALITY CONTROL

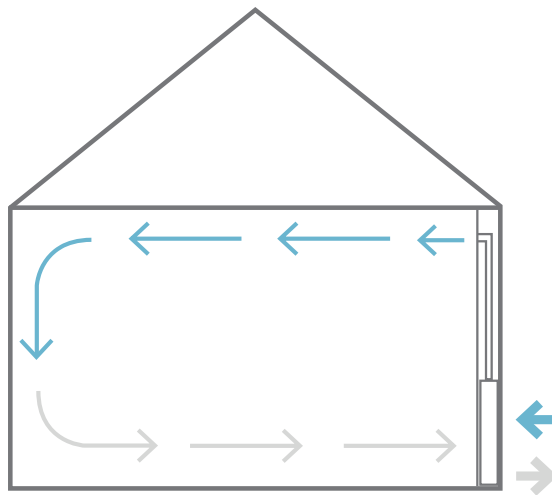
Through the CO<sub>2</sub>, VOC, temperature and humidity sensors, it automatically adjusts the operation of the unit.



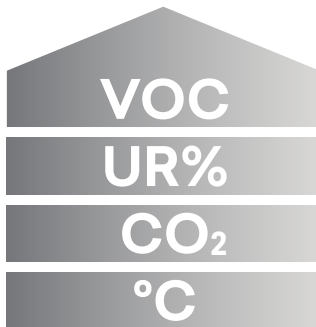
#### WIFI REMOTE CONTROL

# 2.0 RINNOVA VERTICAL BUILT-IN

CONTINUOUS AIR RENEWAL



INTEGRATED AIR QUALITY, HUMIDITY AND TEMPERATURE SENSORS



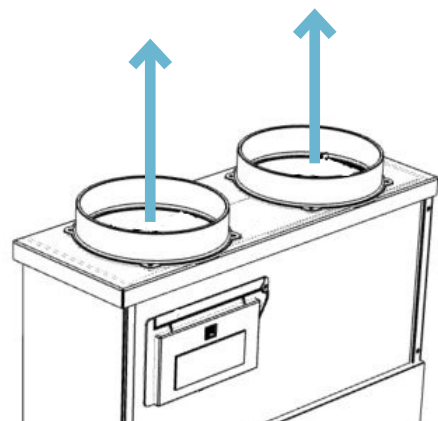
SIMPLE AND ADVANCED CONTROLS  
WIFI OR INTEGRATED MODBUS



ALL ELEMENTS FOR STANDARD INSTALLATION,  
INCLUDING EXTERNAL GRILLS DN 160




DUCTABLE FLOW




# 2.0 RINNOVA VERTICAL BUILT-IN


Thermodynamic heat recovery ventilation unit.

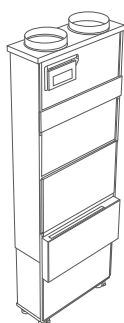
-  Fresh Air flow 320 m³/h

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-  Built in vertical installation

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-  DC Inverter Compressor



<b>COMV12DC3II</b>	2.0 RINNOVA VERTICAL BUILT-IN 30	Nominal fresh air flow 320 m³/h Total heating capacity: 3.10 kW Total cooling capacity: 2.41 kW
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Note: ECA031II or ECB031II or ECA032II or ECB032II. wall control is mandatory for correct operation.

Standard supply:

- installation template
- wall fixing bracket
- DN 160 external grilles kit, internal flanges and plastic protection film
- external anti bypass covers
- adjustable feet

ACCESSORY DESCRIPTION	CODE
<b>COMANDI</b>	
Smart touch electronic wall control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), BLACK color	ECA031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), WHITE color	ECB031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), BLACK color	ECA032II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), WHITE color	ECB032II
<b>AIR STERILIZATION</b>	
Germicidal lamp with UV-C rays with power supply and fixings. The lamp life is estimated at 10,000 operating hours	GB1094II
UV-C lamp spare part	GB1095II
<b>GRILLS AND ACCESSORIES</b>	
Kit n. 2 external grilles with fixed fins DN 160	GB0738II
Kit n. 2 insect protection. Applicable only on fixed grids DN 160	GB0755II
Insulated plenum for supply / intake with 2 connections DN 160 mm, n° 1 DN 160 cap and grille connection. Dimensions: 450x175x175 mm	GR1118II
Supply grille in aluminum with double row of adjustable fins, white color. Dimensions: 450x225 mm	GR1119II
Intake grille in aluminium with removable filter, white color. Dimensions: 450x225 mm	GR1120II
<b>SPARE PARTS FILTERS</b>	
Kit 2 filters ePM1 80% fresh air delivery and exhaust	GR1134II
Outdoor air intake Coarse filter kit	GR1135II
<b>3.0</b>	
Condensate nebulizer To be coupled to eliminate the condensate	COVA00102II



## TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		2.0 RINNOVA VERTICAL BUILT-IN
Size	u.m.	30
<b>AIR FLOW RATE</b>		
Fresh air flow rate B/3/2/1 (1)	m³/h	380 / 320 / 190 / 130
Static pressure available nominal/max (2)	Pa	60/110
<b>HEATING PERFORMANCE</b>		
Total heating capacity (3)	kW	3,1
Space heating capacity without fresh air load (3) (4)	kW	0,38
Total power input (3)	kW	0,71
COP (3)		4,4
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Total cooling capacity (5)	kW	2,41
Space cooling capacity without fresh air load (5)	kW	0,76
Total power input (5)	kW	0,73
EER (5)		3,3
<b>GENERAL FEATURES</b>		
Fans	int/ext	Radial / Radial
Fans Quantity	Nr	2
Heat recovery		Thermodynamic
Compressor		Rotary Inverter DC
Filters		Flat filters - 2 x ePM1 80%
Sound pressure (6)	dB(A)	43 / 46
Refrigerant		R410a
<b>ELECTRICAL DATA</b>		
Max Fans power input	kW	0,15
Max Compressor power input	kW	0,95
Max Total power input	kW	1,15
Max current absorbed	A	5
Power supply	V/ph/Hz	230/1/50
<b>DIMENSIONS</b>		
Width	mm	490
Height	mm	1430
Depth	mm	175
Connections diameter	mm	162
Condensate drain	mm	20
Weight	kg	51
<b>OPERATING LIMITS</b>		
Heating - Indoor air min/max	°C	10 / 25
Heating - Outdoor air min/max	°C	-15 / 20
Cooling - Indoor air min/max	°C	18 / 28
Cooling - Outdoor air min/max	°C	15 / 38

(1) B = booster, V3 = nominal flow at maximum speed, V2 = medium speed flow, V1 = flow at minimum speed

(2) Static pressure available on fresh air delivery. It is possible to set the fan at the nominal static pressure available or at the max static pressure available.

(3) Heating capacity at nominal air flow. Outdoor air temperature -5 °, relative humidity 80%. Ambient temperature 20 ° C; relative humidity 50%, nominal air flow

(4) Space heating capacity = Total heating capacity - Ventilation load  
Ventilation load = capacity to heat nominal fresh air flow of the unit from -5°C outdoor air to 20°C indoor air

Example:  
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(6) Sound pressure at nominal flow rate in open field at a distance of 3m according to UNI EN3744

# 2.0 RINNOVA CEILING



#### DC INVERTER COMPRESSOR

Maximum comfort with the lower consumption and quiet operation.



#### CONSTANT AIR FLOW FANS

Centrifugal fans with constant flow that automatically adapt the speed to the pressure drops of the ducts.



#### AIR QUALITY CONTROL

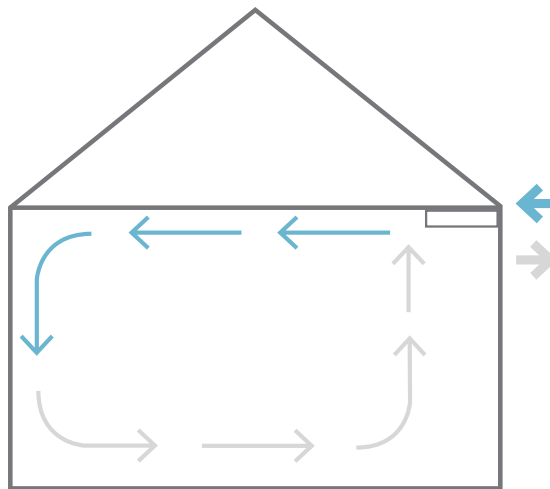
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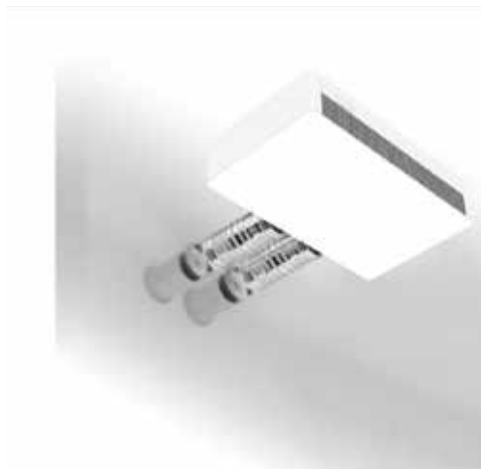
#### WIFI REMOTE CONTROL

# 2.0 RINNOVA CEILING

CONTINUOUS AIR RENEWAL



## DUCTABLE OUTDOOR AIR CONNECTIONS



## CONSTANT AIRFLOW DC INVERTER FANS



## SIMPLE AND ADVANCED CONTROLS WITH INTEGRATED WIFI



Integrated touch-screen



Handset control

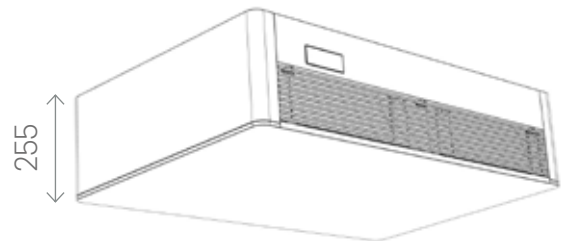


iOS and Android APP




Smart touch WIFI or ModBus remote control (optional)


## EXTREMELY THIN



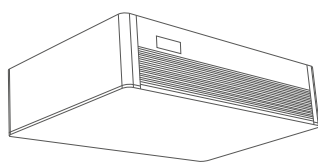
# 2.0 RINNOVA CEILING

Thermodynamic heat recovery ventilation unit.

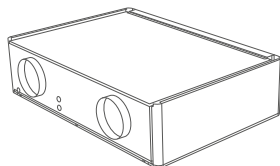
 Fresh Air flow 400 m³/h

 Ceiling installation

 DC Inverter Compressor



Front view



Rear view



Width  
1010 mm



Height  
255 mm



Depth  
690 mm

<b>COMS13VC3II</b>	2.0 RINNOVA CEILING 40	Nominal fresh air flow 400 m³/h Total heating capacity: 3,62 kW Total cooling capacity: 2,77 kW
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Standard supply:

- soft touch control display on the unit with integrated WIFI
- handset remote control
- installation template
- DN 160 external grilles kit, internal flanges and plastic protection film

ACCESSORY DESCRIPTION	CODE
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### CONTROLS

Smart touch electronic wall control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), BLACK color	ECA031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), WHITE color	ECB031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), BLACK color	ECA032II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), WHITE color	ECB032II

### AIR STERILIZATION

Germicidal lamp with UV-C rays with power supply and fixings. The lamp life is estimated at 10,000 operating hours	GB1094II
UV-C lamp spare part	GB1095II

### GRILLS AND ACCESSORIES

Kit n. 2 external grilles with fixed fins DN 160	GB0738II
Kit n. 2 external grilles with fixed fins DN 200	GB1091II
Kit n. 2 insect protection. Applicable only on fixed grids DN 160	GB0755II

### DUCTING COMPONENTS

DN 160 alufonic insulated flexible hose. Supplied in rolls of 10 meters. Price in € / meter	GR0945II
DN 200 alufonic insulated flexible hose. Supplied in rolls of 10 meters. Price in € / meter	GR0946II
F / M connection DN 160-DN 200. N ° 1 piece	GR1136II

Note: the DN 160 flexible hose is to be used for distances between the unit and the outdoor grille up to 5 meters. For distances up to 10 meters it is mandatory to use the DN 200 flexible hose and to provide 2 F / M connections DN 160-DN 200 and 2 DN200 external grilles kit.

### SPARE PARTS FILTERS

Kit 2 filters ePM1 80% fresh air delivery and exhaust	GR1137II
Kit filtro Coarse presa aria esterna	GR1138II

### 3.0

Condensate nebulizer To be coupled to eliminate the condensate	COVA00102II
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## TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		2.0 RINNOVA CEILING
Size	u.m.	40
<b>AIR FLOW RATE</b>		
Fresh air flow rate B/3/2/1 (1)	m³/h	460 / 400 / 240 / 140
Static pressure available nominal/max (2)	Pa	130
<b>HEATING PERFORMANCE</b>		
Total heating capacity (3)	kW	3,62
Space heating capacity without fresh air load (3) (4)	kW	0,22
Total power input (3)	kW	0,84
COP (3)		4,3
<b>COOLING PERFORMANCE</b>		
Total cooling capacity (5)	kW	2,77
Space cooling capacity without fresh air load (5)	kW	0,71
Total power input (5)	kW	0,91
EER (5)		3,0
<b>GENERAL FEATURES</b>		
Fans	int/ext	Costant air flow Centrifugal fan / Costant air flow Centrifugal fan
Fans Quantity	Nr	2
Heat recovery		Thermodynamic
Compressor		Rotary Inverter DC
Filters		Flat filters - 2 x ePM1 80%
Sound pressure (6)	dB(A)	41 / 43
Refrigerant		R410a
<b>ELECTRICAL DATA</b>		
Max Fans power input	kW	0,12
Max Compressor power input	kW	1,15
Max Total power input	kW	1,27
Max current absorbed	A	5,8
Power supply	V/ph/Hz	230/1/50
<b>DIMENSIONS</b>		
Width	mm	1010
Height	mm	255
Depth	mm	690
Connections diameter	mm	162
Condensate drain	mm	20
Weight	kg	74
<b>OPERATING LIMITS</b>		
Heating - Indoor air min/max	°C	10 / 25
Heating - Outdoor air min/max	°C	-15 / 20
Cooling - Indoor air min/max	°C	18 / 28
Cooling - Outdoor air min/max	°C	15 / 38

(1) B = booster, V3 = nominal flow at maximum speed, V2 = medium speed flow, V1 = flow at minimum speed

(2) Static pressure available on fresh air fan (from outdoor grille to indoor delivery grille) and exhaust air fan (from exhaust intake grille to outdoor expulsion grille). The fans maintain the constant air flow between 0 Pa and 130 Pa

(3) Heating capacity at nominal air flow. Outdoor air temperature -5 °, relative humidity 80%. Ambient temperature 20 ° C; relative humidity 50%, nominal air flow

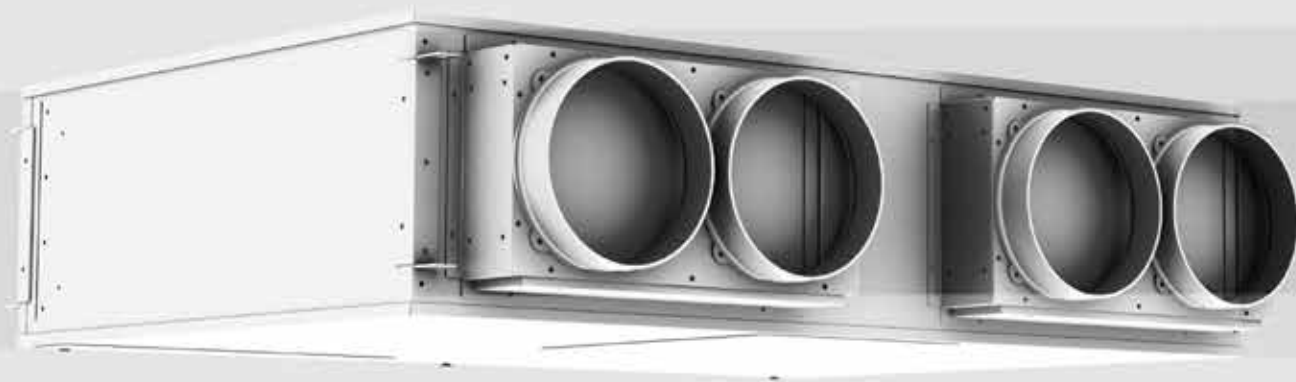
(4) Space heating capacity = Total heating capacity - Ventilation load  
Ventilation load = capacity to heat nominal fresh air flow of the unit from -5°C outdoor air to 20°C indoor air

Example:  
Space heating capacity = Total heating capacity - Fresh air load = 3,1 - (Q x c x DT)  
= 3,62 - (400 x 0,34 x 25/1000) = 3,62 - 3,40 = 0,22 kW  
Q = nominal air flow  
DT = delta T = indoor air temp. - outdoor air temp.

(5) Cooling capacity at nominal air flow. Outdoor air temperature 35 °, relative humidity 50%. Ambient temperature 27 ° C; relative humidity 60%, nominal air flow

(6) Sound pressure at nominal flow rate in open field at a distance of 3m according to UNI EN3744

# 2.0 RINNOVA DUCT



#### DC INVERTER COMPRESSOR

Maximum comfort with the lower consumption and quiet operation.



#### CONSTANT AIR FLOW FANS

Centrifugal fans with constant flow that automatically adapt the speed to the pressure drops of the ducts.



#### AIR QUALITY CONTROL

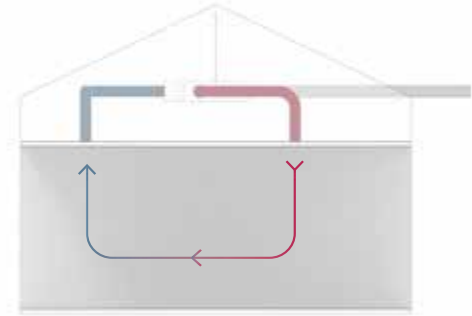
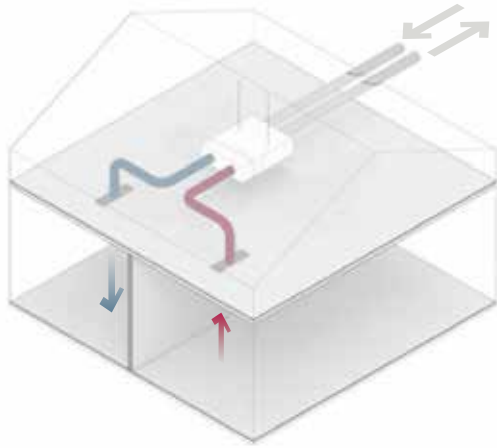
Through the CO<sub>2</sub>, VOC, temperature and humidity sensors, it automatically adjusts the operation of the unit.



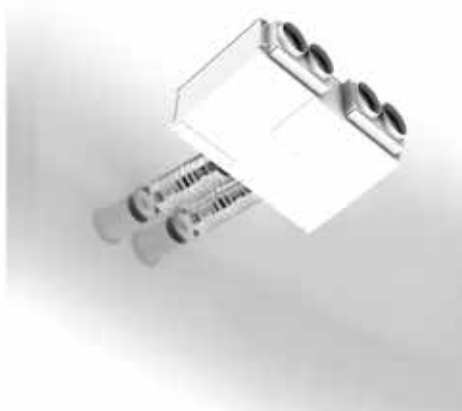
#### WIFI REMOTE CONTROL

# 2.0 RINNOVA DUCT

CONCEALED INSTALLATION



DUCTABLE OUTDOOR AND INDOOR AIR CONNECTIONS



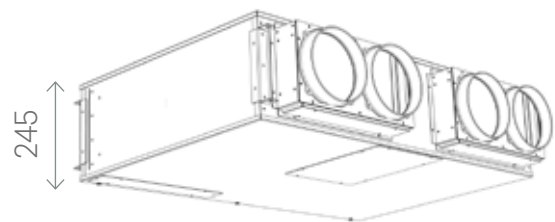
CONSTANT AIRFLOW DC INVERTER FANS



SIMPLE AND ADVANCED CONTROLS  
WIFI OR INTEGRATED MODBUS





EXTREMELY THIN



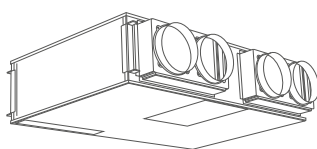
# 2.0 RINNOVA DUCT

Thermodynamic heat recovery ventilation unit.

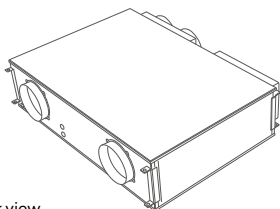
 Fresh Air flow 400 m³/h

 False ceiling installation

 DC Inverter Compressor



Front view



Rear view



Width 950 mm    Height 245 mm    Depth 710 mm

Standard supply:

- installation template
- antivibration rubbers
- DN 160 external grilles kit, internal flanges and plastic protection film

<b>COMS13DC3II</b>	2.0 RINNOVA DUCT 40	Nominal fresh air flow 400 m³/h Total heating capacity: 3,62 kW Total cooling capacity: 2,77 kW
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Note: ECA031II or ECB031II or ECA032II or ECB032II. wall control is mandatory for correct operation.

ACCESSORY DESCRIPTION	CODE
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### CONTROLS

Smart touch electronic wall control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), BLACK color	ECA031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated WiFi module (supplied with 8 m connection cable), WHITE color	ECB031II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), BLACK color	ECA032II
Smart touch electronic wall-mounted control panel with thermostat and room probe with integrated Modbus port (supplied with 8 m connection cable), WHITE color	ECB032II

### AIR STERILIZATION

Germicidal lamp with UV-C rays with power supply and fixings. The lamp life is estimated at 10,000 operating hours	GB1094II
UV-C lamp spare part	GB1095II

### GRILLS AND ACCESSORIES

Kit n. 2 external grilles with fixed fins DN 160	GB0738II
Kit n. 2 external grilles with fixed fins DN 200	GB1091II
Kit n. 2 insect protection. Applicable only on fixed grids DN 160	GB0755II
Insulated plenum for supply / intake with 2 connections DN 160 mm, n° 1 DN 160 cap and grille connection. Dimensions: 450x175x175 mm	GR1118II
Supply grille in aluminum with double row of adjustable fins, white color. Dimensions: 450x225 mm	GR1119II
Intake grille in aluminium with removable filter, white color. Dimensions: 450x225 mm	GR1120II

### DUCTING COMPONENTS

DN 160 alufonic insulated flexible hose. Supplied in rolls of 10 meters. Price in € / meter	GR0945II
DN 200 alufonic insulated flexible hose. Supplied in rolls of 10 meters. Price in € / meter	GR0946II
F / M connection DN 160-DN 200. N° 1 piece	GR1136II

Note: the DN 160 flexible hose is to be used for distances between the outdoor grille - unit - indoor grille up to 5 meters.

For distances up to 10 meters it is mandatory to use:

- from outdoor grilles to the unit, the DN 200 flexible hose and to provide 2 F / M connections DN 160-DN 200 and 2 DN200 external grilles kit.
- from unit to indoor grilles, the two DN 160 flexible hose for fresh air supply and intake exhaust air.

### SPARE PARTS FILTERS

Kit 2 filters ePM1 80% fresh air delivery and exhaust	GR1137II
Outdoor air intake Coarse filter kit	GR1138II

### 3.0

Condensate nebulizer To be coupled to eliminate the condensate	COVA00102II
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## TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		2.0 RINNOVA DUCT
Size	u.m.	40
<b>AIR FLOW RATE</b>		
Fresh air flow rate B/3/2/1 (1)	m³/h	460 / 400 / 240 / 140
Static pressure available nominal/max (2)	Pa	130
<b>HEATING PERFORMANCE</b>		
Total heating capacity (3)	kW	3,62
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Total cooling capacity (5)	kW	2,77
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Total power input (5)	kW	0,91
EER (5)		3,0
<b>GENERAL FEATURES</b>		
Fans	int/ext	Constant air flow Centrifugal fan / Constant air flow Centrifugal fan
Fans Quantity	Nr	2
Heat recovery		Thermodynamic
Compressor		Rotary Inverter DC
Filters		Flat filters - 2 x ePM1 80%
Sound pressure (6)	dB(A)	45 /47
Refrigerant		R410a
<b>ELECTRICAL DATA</b>		
Max Fans power input	kW	0,24
Max Compressor power input	kW	1,15
Max Total power input	kW	1,37
Max current absorbed	A	6,1
Power supply	V/ph/Hz	230/1/50
<b>DIMENSIONS</b>		
Width	mm	950
Height	mm	245
Depth	mm	710
Connections diameter	mm	162
Condensate drain	mm	20
Weight	kg	72
<b>OPERATING LIMITS</b>		
Heating - Indoor air min/max	°C	10 / 25
Heating - Outdoor air min/max	°C	-15 / 20
Cooling - Indoor air min/max	°C	18 / 28
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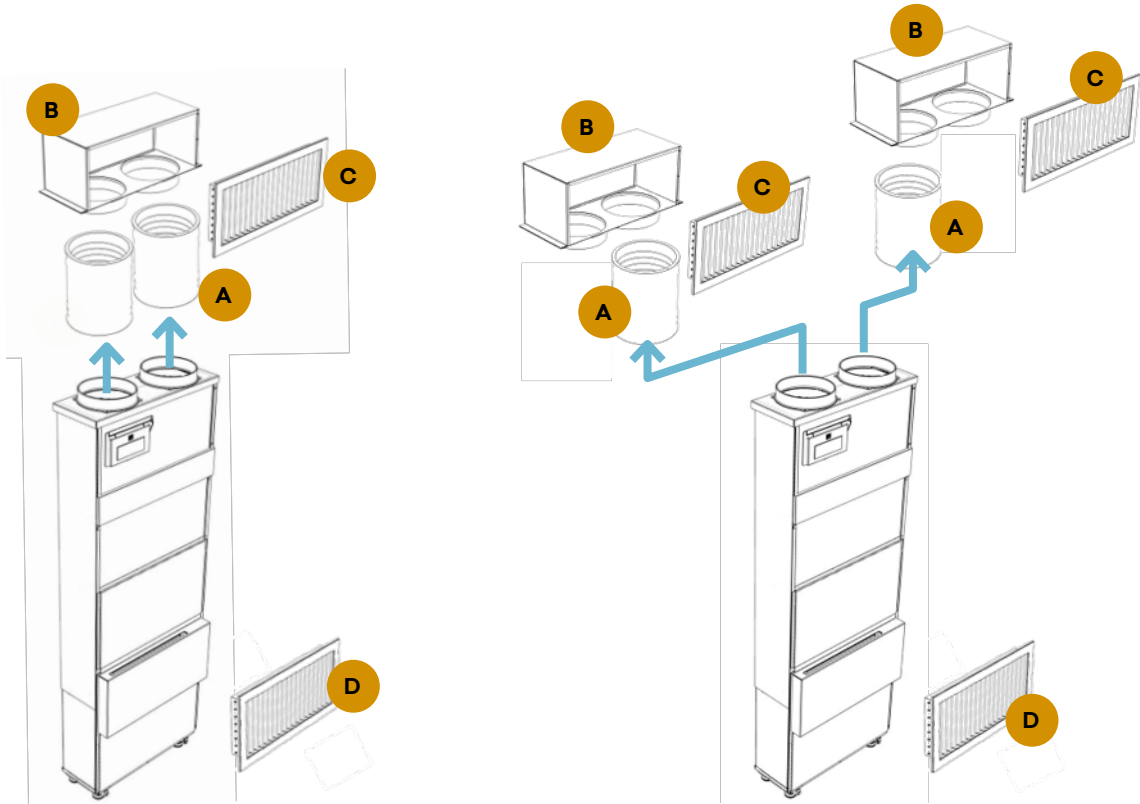
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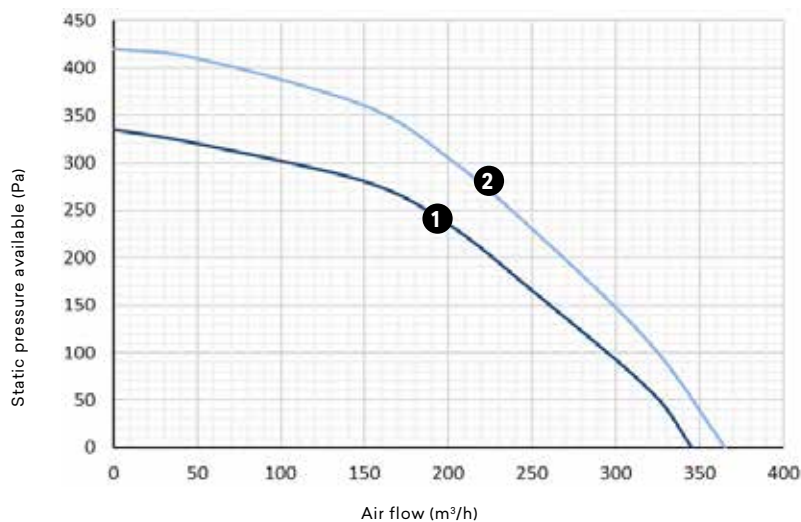
(6) Sound pressure at nominal flow rate in open field at a distance of 3m according to UNI EN3744

## 2.0 RINNOVA VERTICAL BUILT-IN AEREAULIC ACCESSORIES



- A. Insulated flexible hose DN 160
- B. Double connection plenum DN160 + n ° 1 cap
- C. Double row supply grille
- D. Intake grille with removable filter

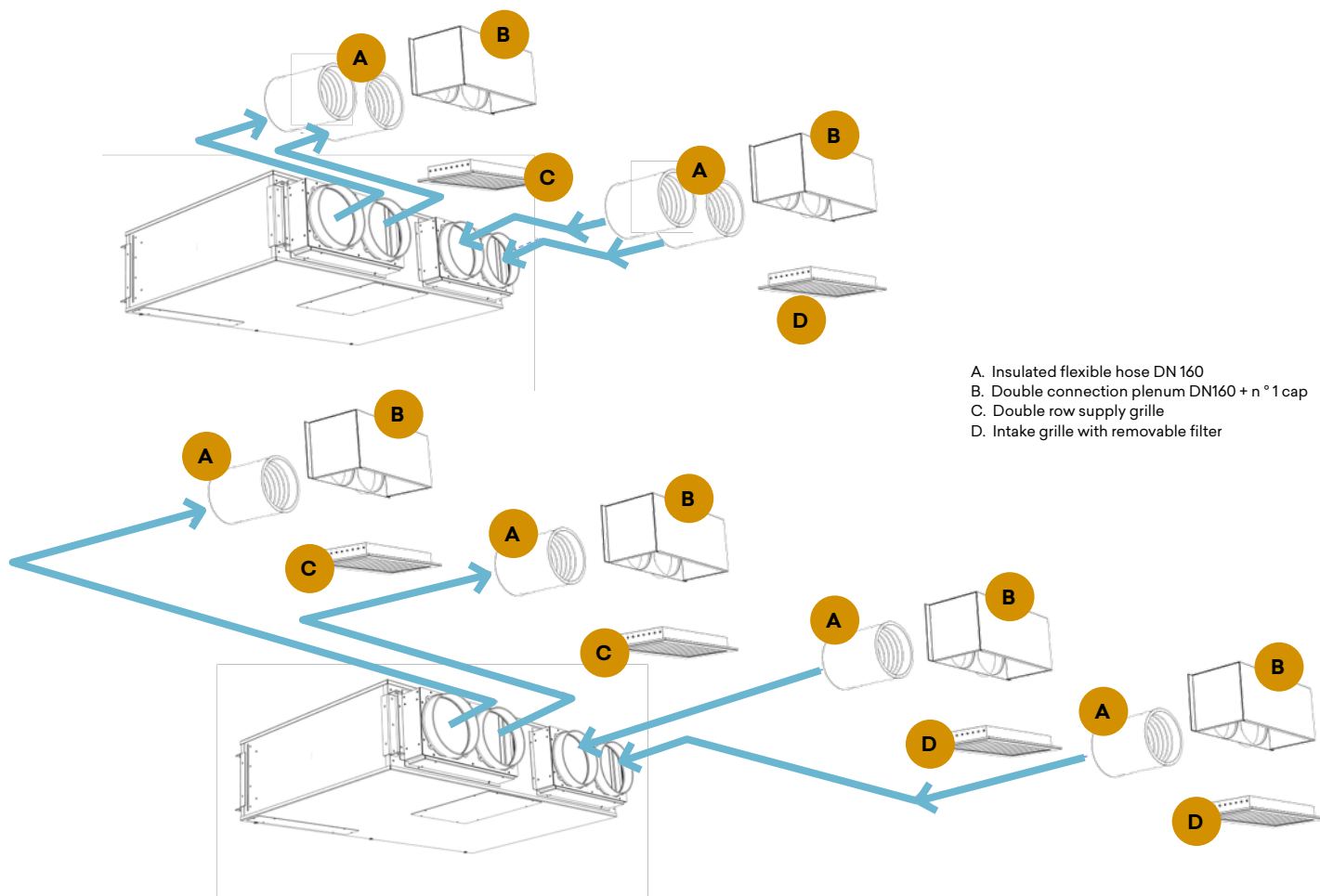
### Air flow – Static pressure available fresh air supply fan 2.0 RINNOVA VERTICAL BUILT-IN



1. Fan set at the nominal static pressure available
2. Fan set at the MAX static pressure available

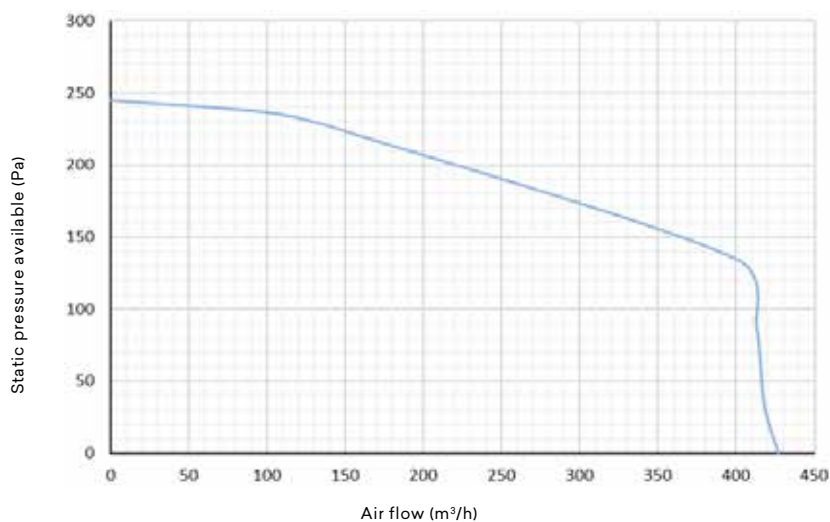


# 2.0 RINNOVA DUCT AEREAUTIC ACCESSORIES



- A. Insulated flexible hose DN 160
- B. Double connection plenum DN160 + n°1 cap
- C. Double row supply grille
- D. Intake grille with removable filter

**Air flow – Static pressure available fresh air supply and intake exhaust air fan  
2.0 RINNOVA DUCT**







Projects turned  
into reality.





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