

Single Room Heat Recovery Ventilation

Nano Air 50



Advantages

Conformity

Installation

Description

Range

Technical details

Remote control



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Remote control

Conformity

- CE electrical safety.

Advantages

- Plug & Play installation.
- Excellent sound level (19 db(A))*.
- Ideal for renovation applications.
- Recovery efficiency up to 88%.
- Multifunctional wireless Remote Control.
- EC motor.

* at 3 m on speed 1



FIELD OF APPLICATION

- General and permanent ventilation for dwellings.
- Single room heat recovery system.
- Ideal solution for renovation and new buildings.

DESCRIPTION

- Single room Heat Recovery Ventilation unit.
- 3 possible speed modes.
- Airflow from 14 m³/h to 54 m³/h.
- 2 Filters G3.
- EC Motor.
- Ceramic Heat Exchanger with efficiency up to 88%.
- Nano Air 50 is operated with a remote controller or the buttons on the ventilator casing:
 - Manually with three-position switches for more basic functionality,
 - With remote controller to provide wider control capabilities (night mode, humidity settings).
- Operating temperature limits:
 - Ambient temperature ranging from -20°C up to +50°C and relative humidity up to 80%.
- 2 year warranty.

RANGE

Designation	Code	Energy efficiency
Nano Air 50	11023290	A

COMPOSITION OF KITS

Designation	Code
Nano Air 50	11023290
Multi-function remote control	11023297
Filters (2 x G3)	11023297

ACCESSORIES

Designation	Code
Finishing plate	11023298

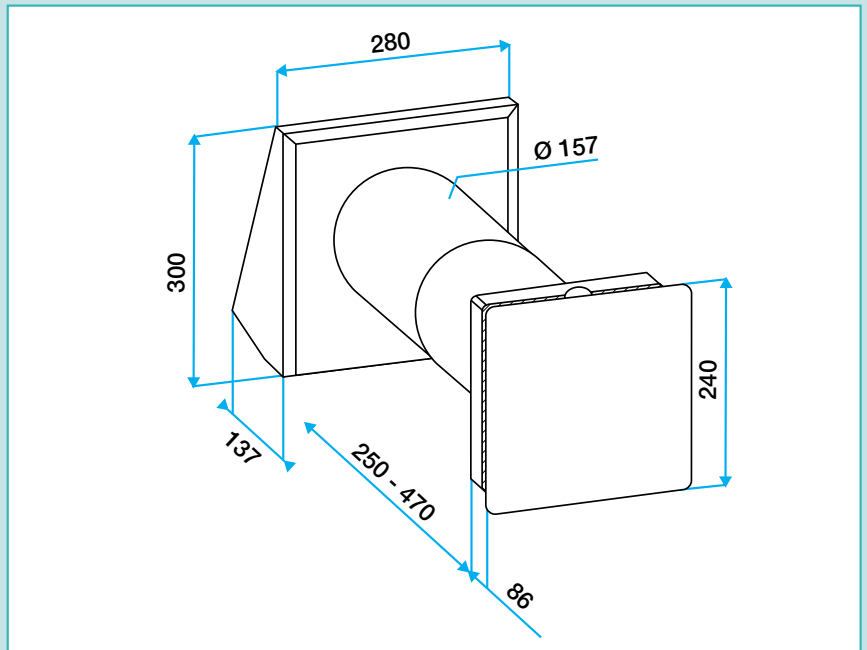
* Out of the scope of ecodesign 327/2011 and ecodesign 1253/2014 regulations because of max power <30W. In accordance with energy labelling 1254/2014 regulations.

Single Room Heat Recovery Ventilation

Technical Details Nano Air 50

DIMENSIONS (mm)

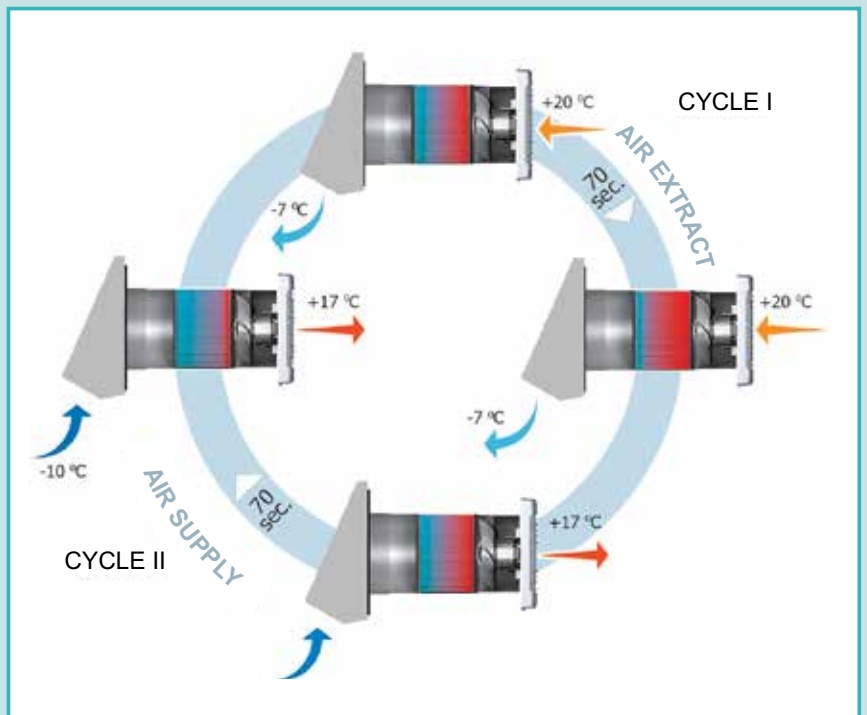
- G3 Filter = 150 mm



FUNCTIONING PRINCIPLE

In heat recovery mode, Nano Air 50 operates in two cycles, 70 seconds each.

- **Cycle I:** Warm stale air is extracted from the room. As it flows through the ceramic regenerator, it heats and moisturizes the regenerator. As the ceramic regenerator gets warmed up, the unit switches to the supply mode.
- **Cycle II:** Fresh intake air flows through the regenerator and absorbs accumulated heat and humidity. When the ceramic regenerator is cooled down, the unit switches to the extract air mode.



TECHNICAL AND ELECTRICAL DETAILS

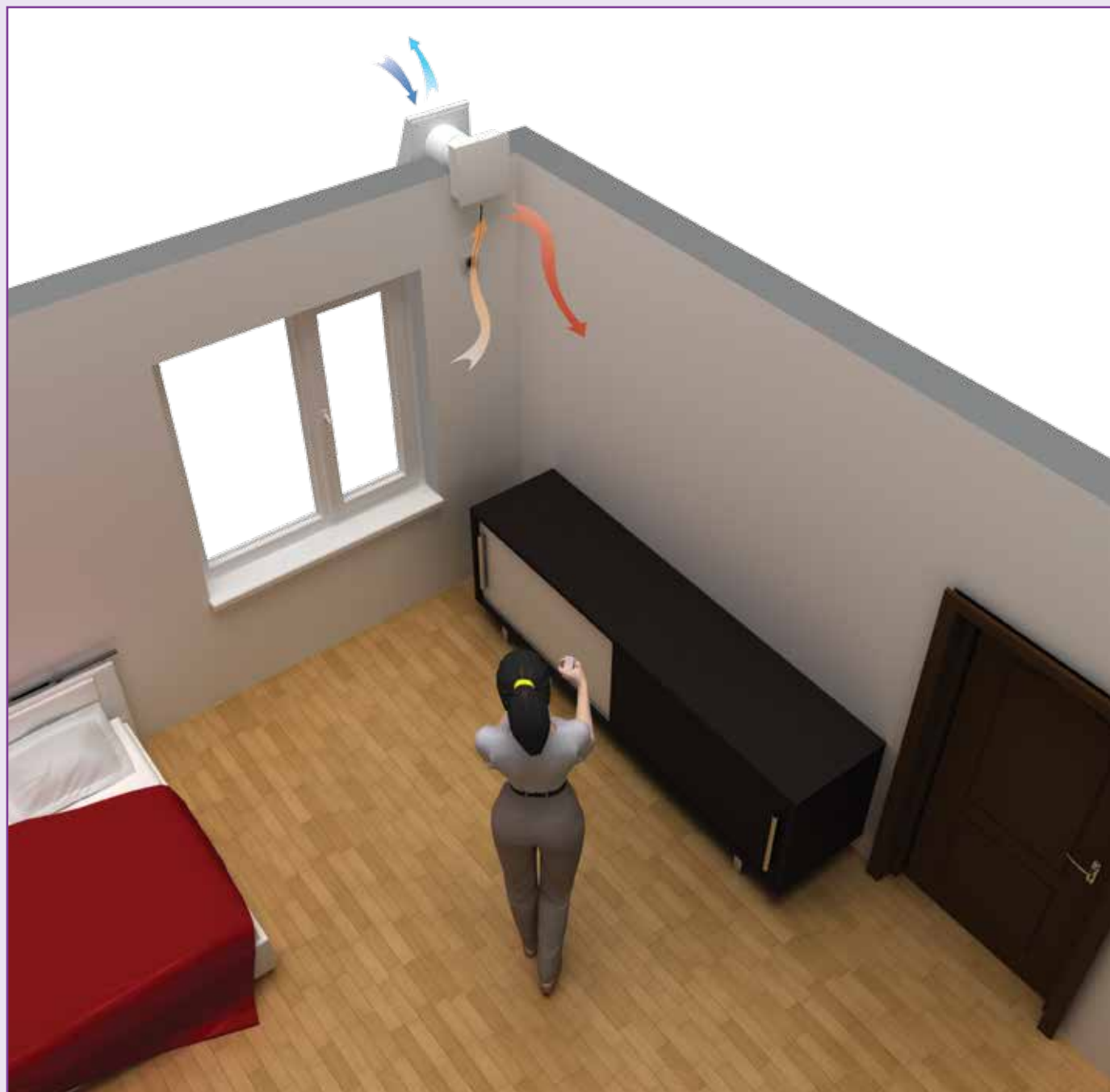
Power supply: 230 V – 50 Hz
Protection rating: IP 24, class

Speed levels	I	II	III
Airflow (m ³ /h)	14	28	54
Ventilator total power (W)	3.8	3.9	5.6
Noise Level, 3 m (db(A))	19	22	29
Recovery efficiency	Up to 88%		
Exchanger type	Ceramic		

Single Room Heat Recovery Ventilation

Nano Air 50 Installation

- Nano Air 50 is designed for external through-the-wall installation inside a prepared round hole in the wall of the building.
- The ventilator arranges permanent controllable air exchange in:
 - houses,
 - flats,
 - and other domestic premises.
- The ventilator should be installed only in living areas:
 - living rooms,
 - bedrooms,
 - dining rooms.
- To arrange the most energy-efficient ventilation in a kitchen or in a bathroom, we recommend installing extraction fans in the kitchen or in the bathroom.

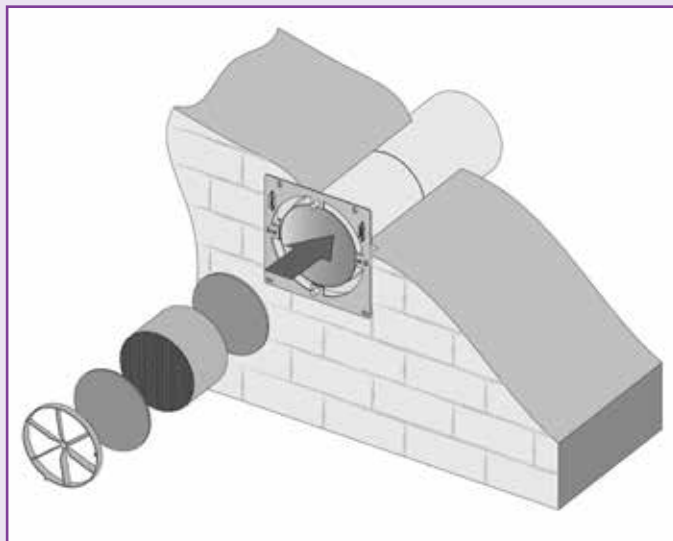
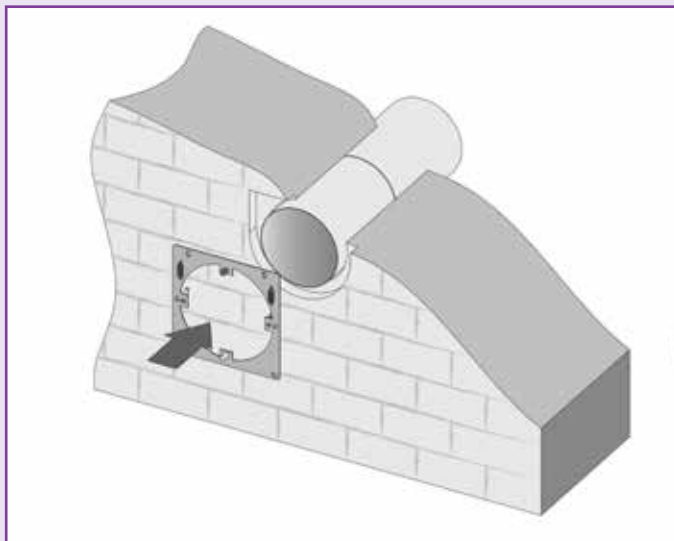


Single Room Heat Recovery Ventilation

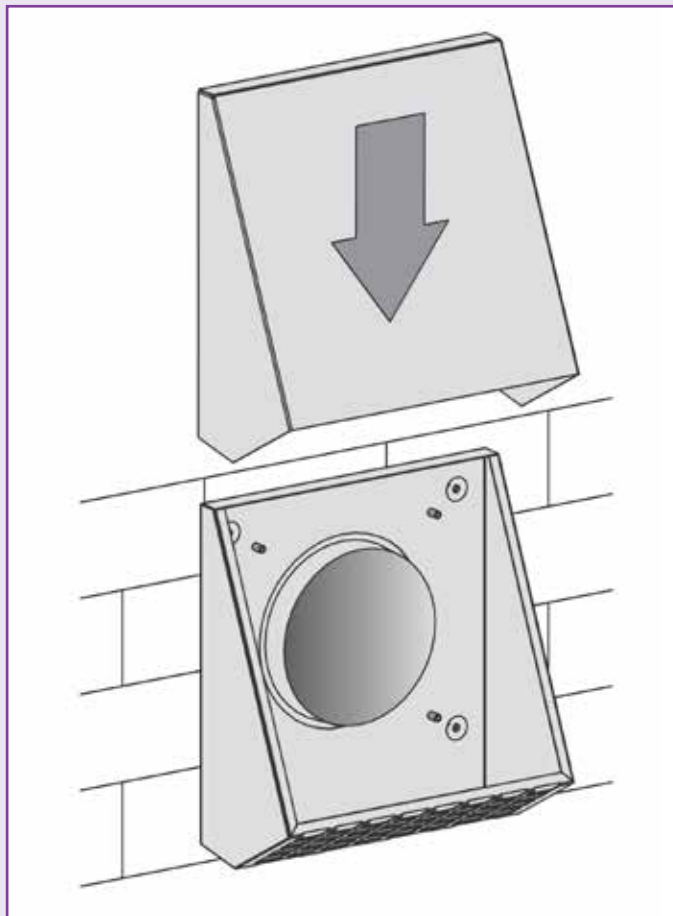
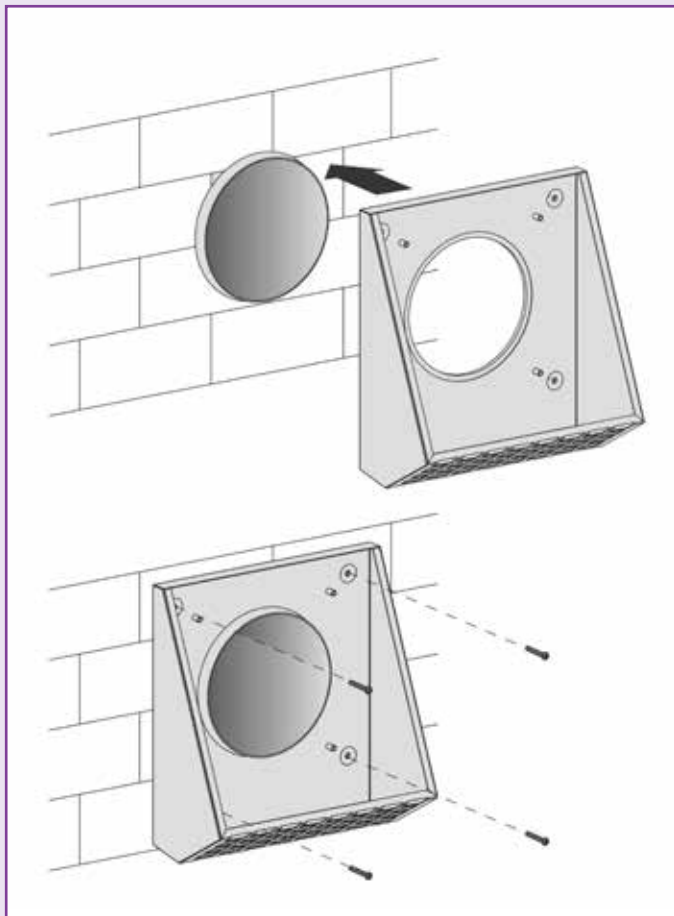
Mounting Nano Air 50

- The mounting of Nano Air 50 is realized in 2 parts:
 - Inside ventilator mounting
 - Outside ventilator hood mounting.
- To mount Nano Air 50, a thorough round hole should be prepared in the wall (170 mm).
- The space between the gaps must be filled with mounting foam (not supplied).

INSIDE VENTILATOR MOUNTING



OUTSIDE VENTILATOR HOOD MOUNTING



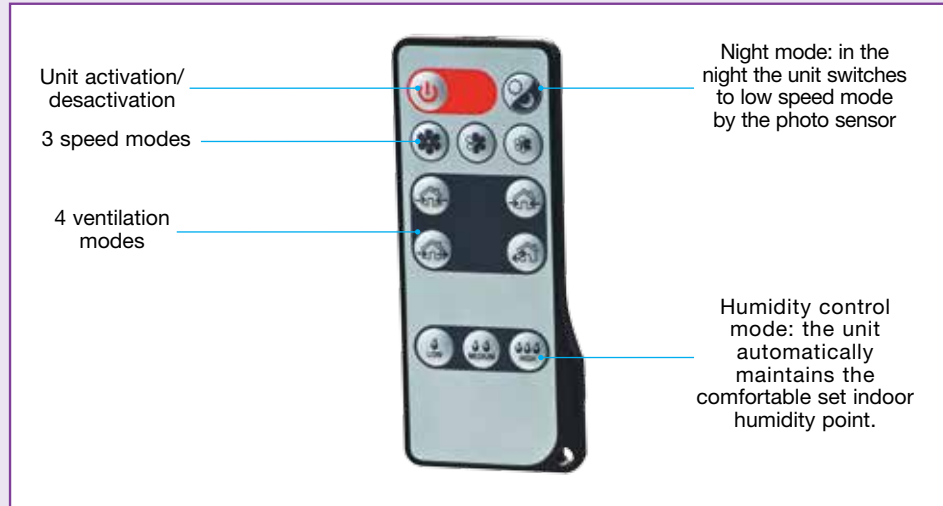
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REMOTE CONTROL

Nano Air 50 is operated with a remote controller (infrared) or the buttons on the ventilator casing.

Remote control functions



Control on Ventilation casing



CONNECTION OF SEVERAL VENTILATORS IN SERIES

When several Nano Air 50 are connected in series, all the connected ventilators are controlled with the first ventilator and a common remote control. Up to 10 Nano Air 50 may be connected in series.

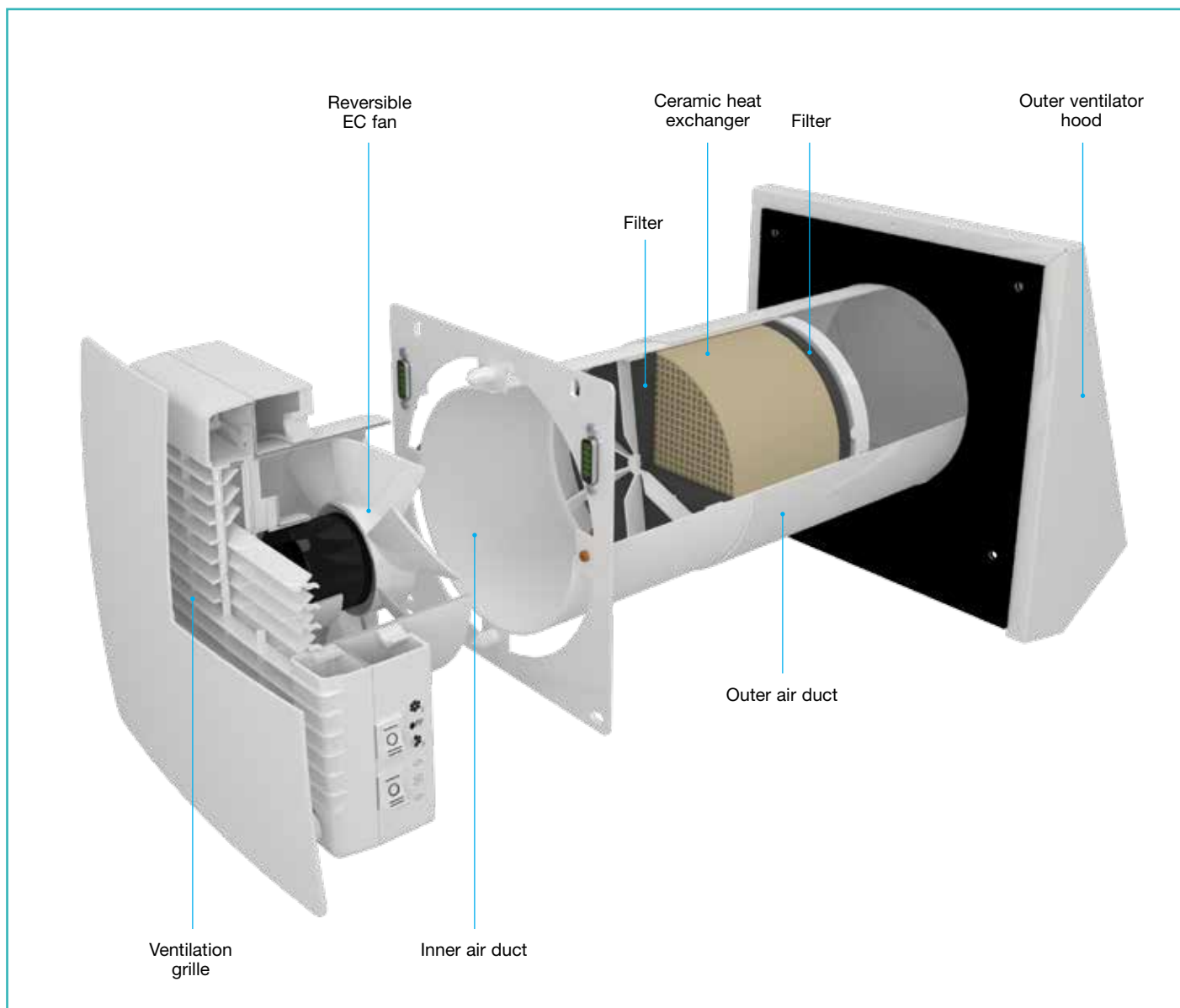
To connect Nano Air 50 in series connect the contact socket on the mounting plate of the first Nano Air 50 with the contact socket of the second Nano Air 50. Connect the third Nano Air 50 with the second one in the same way. The signal from the remote control is received by the first Nano Air 50 only.

The best ventilation solution is pairwise installation of reverse phase connected units. Some units ensure supply of fresh air to the room and other units provide air extract from the premise. This allows arranging the most efficient balanced ventilation.



Single Room Heat Recovery Ventilation

General diagram



Single Room Heat Recovery Ventilation

Nano Air 50



Principle

Single heat recovery ventilation offers general and uninterrupted permanent ventilation and is designed for through-the-wall mounting. The ceramic heat exchanger operates in two cycles, 70 seconds each. When air is extracted, the ceramic is charged with the thermal energy of the indoor air, in order to release it to the outdoor air being brought in when the fan changes direction.

It is an ideal solution for renovation as well as for new constructions.

Avantages

- Plug & Play installation.
- Excellent sound level (19 db(A) at 3 m on speed 1).
- Ideal for renovation applications.
- Recovery efficiency up to 88%.
- Multifunctional wireless Remote Control.
- EC motor

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