

# **KONTROLAIR®**

**Smart Controlled Mechanical Ventilation  
for single room with heat recovery**

**INSTALLATION MANUAL**

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# INSTALLATION INSTRUCTION

## CAUTION

The assembly and installation work must be carried out by qualified personnel.

### 1. Safety instructions and warnings

Before installing **Kontrolair®**, make sure there is no visible damage.

Do not install or operate if the equipment is damaged after unpacking.

If the machine is damaged contact the technical assistance service.

Only after completing assembly and installation operations, the equipment can be connected to the power supply unit and to the mains.

The manufacturer is not liable for injury or damage deriving from failure to respect the warnings and safety instructions.

### 2. Package Contents

Image	Description	Pieces
(K)	<b>Kontrolair®</b> CMV System	1
(A)	White plastic flange with pipe joint 40 mm diameter	1
(B)	40 mm diameter PVC pipe	1
(C)	PVC elbow fitting 45 °- diameter 40 mm	1
(D)	M3 screw (unscrew from the seat)	2
(E)	Dowels and steel screws to secure the frame of the external ventilation grille	4
(F)	Frame of outdoor ventilation grille	1
(G)	Outdoor ventilation grille with insect net	1
(H)	Electric cable with <b>male plug</b> length m. 3	1
(I)	220-12V power supply unit	1
(L)	Indoor magnetic mask	1
(M)	Particle filter (already installed)	1
(N)	Bluetooth remote control	1
(O)	Remote controller batteries <b>type CR2032</b>	2
(P)	<b>Attachment joint 40mm</b>	1

### 3. Unpacking

1. Remove the casing cover.
2. Without deepening the blade, open the box top by cutting the adhesive tape.
3. Remove the contents by placing them gently on a flat surface.

### 4. Mechanical installation sequence

#### 4.1 External wall drilling

Bore a feed-through hole in the wall, using a 170 mm diameter hole saw drill.

**\*\*\* Caution \*\*\*** *If the system is installed on a wall facing the road, check that it is positioned at a height such that it does not disturb or cannot be damaged by the passage of people.*

#### 4.2 Cutting PVC pipes

Cut the 160 mm diameter PVC pipe to the same length of the wall thickness, taking care to extract the machine body before performing the operation.

Cut the 40 mm pipe as much as the the length of the wall thickness minus 270 mm. If the wall thickness exceeds 47cm, it will be necessary to lengthen the main PVC pipe (160mmx3.9mm PVC) and the secondary pipe (40mmx1.8mm PVC).

#### 4.3 Equipment assembly

1. Insert the joint (P) into the white plastic flange (A) (see fig. 1-A).
2. Insert the 40mm pipe (B) into the joint (P) (see fig. 1-B), possibly wetting the rubber seal with water and soap.
3. Insert the 45 ° elbow fitting of 40 mm diameter (C) into the pipe (B) just fixed to the white plastic flange (A) to the ventilation unit (see fig. 1-C), possibly wetting the rubber seal with soapy water.
4. Fix the flange (A) to the machine body. Fixing screws (D) are on the ventilation system body, they must be unscrewed and used for the described purpose (see fig. 1-D).

#### 4.4 Kontrolair® application in masonry

1. Insert the 160 mm pipe into the feed-through hole of the wall, with a slight slope (2% -3%) towards the outside.
2. Fix and caulk the 160 mm pipe with expanded foam and / or silicone, smoothing the wall surface / pipe both inside and outside.
3. Insert the machine body into the 160 mm pipe, taking care not to damage the expanded polystyrene, which covers the appliance.

**\*\*\* Caution \*\*\*** For a correct insertion of the machine body inside the feed-through hole of the wall rotate the elbow fitting (C) 180 °.

4. Apply the indoor magnetic ventilation mask (L).

#### 4.5 Outdoor ventilation grille assembling

1. Reach the hole outside in the wall. With the 4 supplied dowels (E) install and secure the frame (F) of the outdoor ventilation grille as shown in fig. 3.
2. Install the outdoor ventilation grille (G), inserting it in the interlocking side holders of the frame (F). Pay attention to the insect net. For a greater protection it is recommended to apply silicone between the frame (F) and grille (G).

### 5. Electrical installation sequence

1. Identify the junction box where to install **Kontrolair**<sup>®</sup> power supply.
2. Disconnect wiring power in the house where to install **Kontrolair**<sup>®</sup>.
3. Open the junction box.

**\*\*\*caution\*\*\*.** Make sure that enough space is available inside the identified junction box for locating the included power supply unit (I).

4. Connect the supplied cable (H) to the plug on the left side of **Kontrolair**<sup>®</sup> indoor metal holder.

**\*\*\*caution\*\*\*.** The supplied cable (H) is 3 meters long; if the junction box is further away this cable can be extended. This connection has got a polarity. In the event of prolongation, be careful and use at least 0.5 mm<sup>2</sup> conductors.

5. Connect the supplied cable (H) to the plug on the left side of **Kontrolair**<sup>®</sup> indoor metal holder
6. Reach the junction box with the cable (H) (or its extension).
7. Connect the cable (H) to the power supply unit (I) in the terminal board, marked with the symbols "-V" "V". (-V black wire, V white wire).
8. Connect the 230 V power supply to the AC / N and AC / L terminals.
9. Close the junction box.
10. Turn on the 230 V power supply.
11. Check that **Kontrolair**<sup>®</sup> LED is lit.

## 6. Technical data

12Vdc power supply

Consumption 3W

Weight 4 Kg approx.

Degree of protection IP10

Bluetooth connectivity system

Noise level <7dB

Aspiration flow rate 60m3 approx.

Extraction flow rate 60m3 approx.

Integrated thermal energy recovery system

Automatic airflow adjustment with measurement of temperature and humidity both in extraction and input channels

12V socket for LED lighting (optional)

CE mark

MADE IN ITALY

## 7. Warranty

**Kontrolair**<sup>®</sup> equipment is two-years guaranteed from purchase date, except in cases of confirmed manipulation or misuse.

In the event of a malfunction, send in the original packaging to the reference center indicated at the time of the requesting assistance.