

# **KONTROLAIR<sup>®</sup>**

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

**USER MANUAL**

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## **1. SAFETY INSTRUCTIONS AND WARNINGS**

This equipment complies with current safety standards.

Improper use can cause damage to people and/or things.

Read these instructions carefully before operating KontrolAIR®.

This avoids danger to people and equipment.

Keep the instructions for use and provide them to other users. The manufacturer is not liable for damage deriving from the failure to comply with safety warnings and instructions.

## **2. DESCRIPTION**

### **2.1 CMV system**

1. Internal ventilation grille with magnetic coupling
2. Machine body
3. External ventilation grille

### **2.2 Remote control**

Button 1 - Switch off

Button 2 - Night mode activation

Button 3 - Automatic comfort Mode

Button 4 - Air recirculation Mode

Button 5 - Fan speed selection

Button 6 - Activation of extraction mode

## **3. OPERATION**

### **3.1 Switching on - Switching off**

KontrolAIR® is put into operation with buttons 2-3-4-5-6 (see fig. 2), activating the corresponding mode.

To switch off the device press button 1 (see Fig. 2).

### 3.2 Night Mode

The "night" mode is activated by pressing button 2 (see fig. 2).

Minimizes fan rotation speed, keeping the last mode set.

### 3.3 Automatic Comfort Mode

The "auto-comfort" mode is activated with button 3 (see fig. 2) and independently manages the phases of input and extraction, based on environmental data received from the integrated sensors, in order to optimize the environmental comfort of indoor rooms.

### 3.4 Recirculation Mode

The "recirculation" mode is activated through button 4 (see fig. 2) and alternates extraction cycles of 30 min and input of 30 min.

### 3.5 Fan speed

Button 5 (see fig. 2) sets the fan speed (without changing the active mode) on 3 subsequent steps identifiable by LEDs 5 - 6 - 7 (see fig. 2) that light up by pressing the button.

### 3.6 Extraction mode

The "extraction" mode is activated through button 6 (see fig. 2) .The extraction fan is activated continuously for 30 min.

Subsequently KontrolAIR<sup>®</sup> returns automatically to "auto-comfort" function (see 3.3) .

### 3.7 Function of the LEDs on the remote control

The transmission of the command is indicated by the LED lighting up on the corresponding button.

To limit energy consumption, the LEDs always light up for short periods.

They never stay on permanently, even if you keep the buttons pressed.

When the remote control is unused for more than 5 minutes, it closes the connection and turns off completely to save energy.

When a button is pressed again, the flashing of the LED 1 (see fig. 2) indicates the upturn of the remote control and the connection restore with the control unit, followed by the sending of the requested command.

In the event that the connection is interrupted and / or it is impossible to restore it, the remote control will try again to establish the connection for 30 seconds, during which the LED 1 will flash twice every second. If the connection attempt fails, the remote control is deactivated again.

Each press of a button reactivates the remote control, which will each time attempt to restore the connection to the control unit.

### **3.8 LED function in the equipment body**

*Fig. 3*

The LED is off when the ventilation is off, i.e. in the OFF state (see Fig. 3).

The LED lights up when the equipment is in operation, or when one of the operating modes described above is active.

If one of the temperature / humidity sensors does not work properly, the device goes to ERROR condition: the LED flashes slowly.

In ERROR conditions it is still possible to activate ventilation (unless the damage is extended to the fans), but without the support of temperature and humidity sensors.

This is an irregular operating situation!

The only operating modes available are "recirculation" and "extraction", and the "automatic comfort" mode effectively becomes a recirculation.

## **4. MAINTENANCE AND CLEANING**

### **4.1 Remote control**

#### **1. Inserting / replacing batteries**

*Fig. 4*

1.1 Open the cover on the back of the remote control by sliding it downwards (see fig. 4).

1.2 Insert two batteries with the positive side facing upwards (see fig. 4). (in case of replacement, take out the old batteries before inserting the new ones).

1.3 Close the cover by sliding it upwards (see fig. 4).

#### **2. Restore connection Remote control / CMV System**

If the remote control no longer communicates with KontrolAIR<sup>®</sup>, carry out the following checks:

- the electrical connection is activated on KontrolAIR®;
- the batteries are correctly inserted in the remote control and are charged.

If, having verified the two previous points, there is no communication between the remote control and KontrolAIR®, carry out the following procedure to restore the connection:

1. Powering KontrolAIR®: the KontrolAIR® electronic card searches for the first available remote control.
2. Press a button on the remote control: the remote control card announces its availability to the connection (double periodic flashing of LED 1).
3. A quick flash of LED 1 on the remote control shows that the connection has been established.

The link is created automatically and remains stored.

Complete the procedure with a verification test:

- Test the connection, sending some commands;
- Turn off the control unit and / or the remote control;
- Turn both devices back on, which should recognize and reconnect immediately;
- Repeat the test by sending some commands.

## 4.2 Filter replacement

- Filter
- Bolts
- Metal support
- Metal flange

*Fig. 5*

1. Remove the magnetic cover.
2. Loosen the two side screws located on the outside of the metal support.  
Move the metal flange containing the electronic board a few millimeters.  
It is not necessary to rotate the flange.  
Remove the dust filter from the bottom upwards (see fig. 5).
3. Insert the clean or new filter in its seat, repeating the described steps in reverse,.

**\*\*\* Important \*\*\*** after inserting the filter, press the metal flange against it and lock with the two side screws.

Filter replacement is recommended every 90 days.

## **5. PROTECTION OF THE ENVIRONMENT**

### **5.1 Disposal of the packaging**

The packaging prevents damage to KontrolAIR® during transport.

The materials used for packaging are recyclable, as they are selected according to environmental respect and easy disposal criteria.

Recycling the components allows the reduction of waste volume and allows a more rational use of non-renewable resources. Inquire about the possibility of returning the packaging or the nearest waste collection center.

### **5.2 Disposal of the device**

KontrolAIR® cannot be disposed using management services of urban waste.

Like all electrical and electronic equipment, this device is also a WEEE (Waste of Electrical and Electronic Equipment) and as such, at the end of its life, it can be delivered to the special collection points of the Municipalities, or returned to the manufacturer, in the event of purchase of a new device.