

HEAT RECOVERY VENTILATION UNIT ECO-FRESH 01 LUX

INSTALATION INSTRUCTIONS



IMPORTANT

- Switch off mains supply before making any electrical connections or maintenance. If in any doubt contact a qualified electrician.
- The appliance is not intended for use by children or persons with reduced physical, sensory or mental capabilities without being given supervision.
- Precautions must be taken to avoid back-flow of gases into the room from the open flue or other open-fire appliances.

INSTALLATION

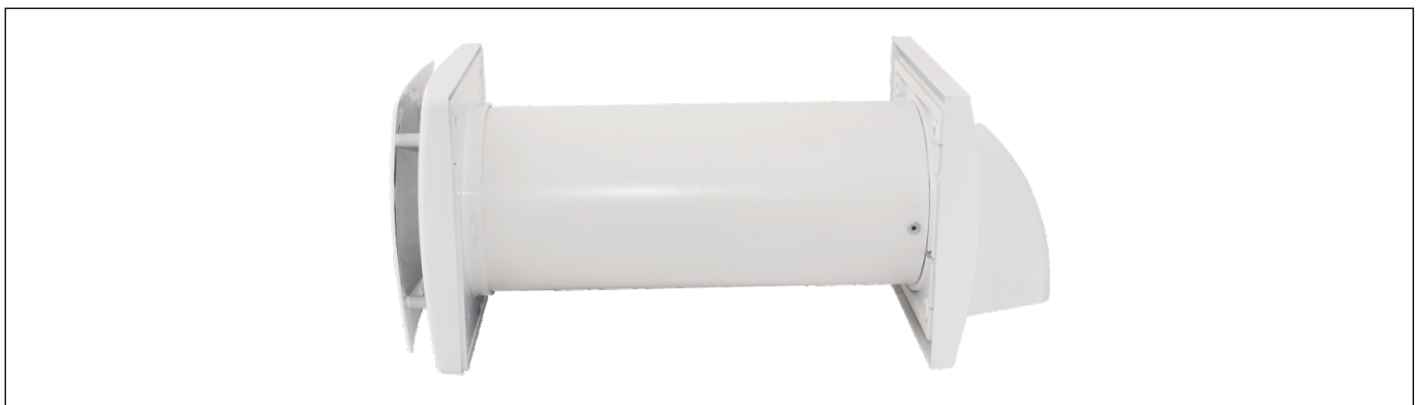
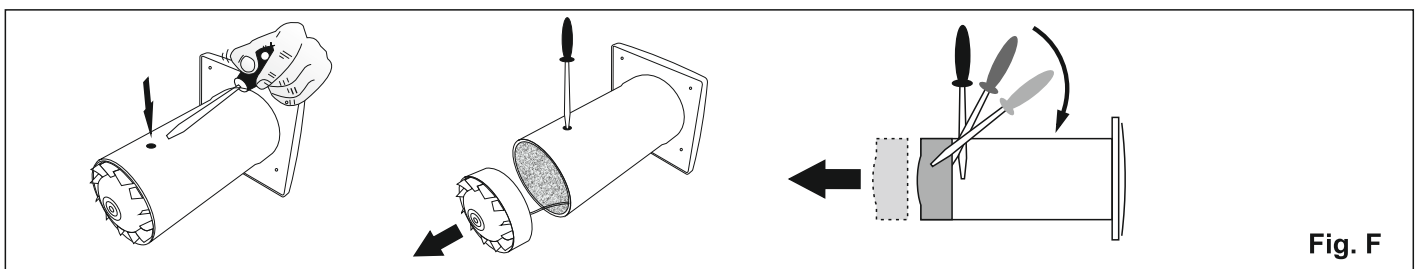
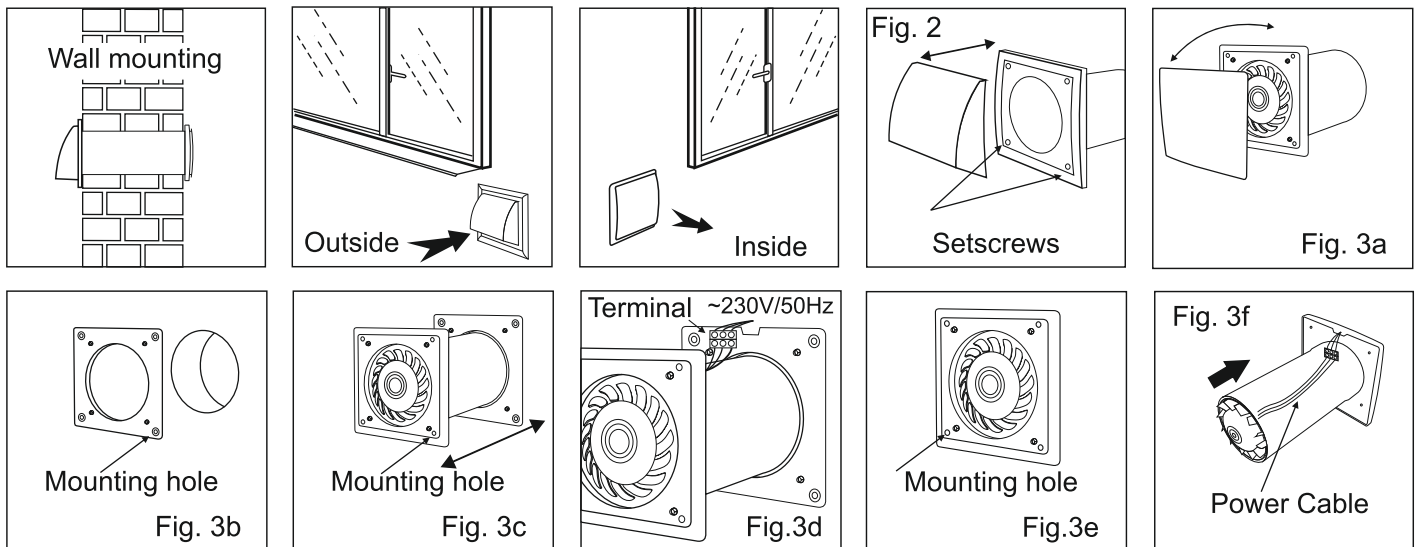
Before installation, you must make sure that the system is not connected to the mains! It is mounted on outer wall. In rooms at higher level or in case of no balcony, the system is appropriate to be installed at the lower left or right corner below the window. This facilitates installation and replacement of the filter.

Sequence of installation:

1. Drill a circular hole in the wall. Opening is suitably to be drilled with an electric diamond drilling machine with a standard $\varnothing 110$ mm.
2. The external part of the system / outer grid with adjoining thereto outer housing / are fixed to the outer opening of the wall by the 4 fixing screws Fig. 2.
3. The inner grid is removed by pulling (fig.3).
4. Take the fixing base and position it in front of the wall opening using the 4 universal dowels 5x20 (for this mounting use the holes provided Fig.3b).
5. Place the system into the opening of the fixing base (Fig. 3c), and then connect to the power supply (Fig.3g) COMPULSORLY following the scheme for "Electrical Connection" (Fig. 5).
6. Attach the system to the fixing base with the help of 4 screws 3x13 (use provided mounting holes Fig.3d).
7. Put the front grid (Fig. 3a).

REMARK

System power cable must be long enough to allow removal of the inner part of the system when changing filters and installing Fig. 3f.

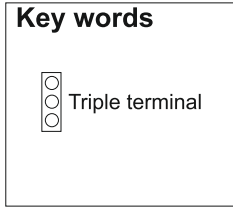
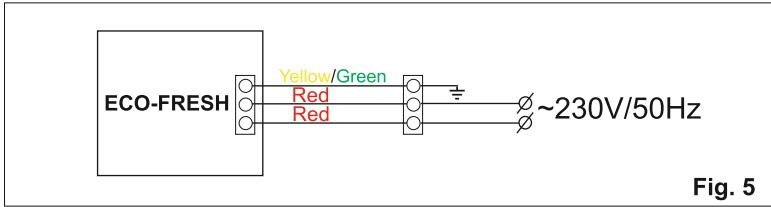


IMPORTANT SAFETY NOTES

- All work on the electrical connection and installation must be performed in accordance with applicable national and local regulations.
- All work on the electrical connection and installation must be carried out by suitably qualified personnel.

ELECTRICAL CONNECTION

- Before installing or connecting the system, make sure that the main power is turned off.
 - Before connecting make sure that the voltage and frequency of the supply current match those listed on the label data.
- Connect the power cord of the system to the mains in accordance with the wiring diagram.



MAINTENANCE

- Before maintenance or cleaning of the system ensure that the appliance is disconnected from the power supply.
- It is recommended the filter to be changed at least twice a year:

Changing the filter: *Turn off the system and wait 10 min. to release tension from the ionizer /in case the system is equipped with ionizer/!* remove the inner grid by pulling (Fig.3a);

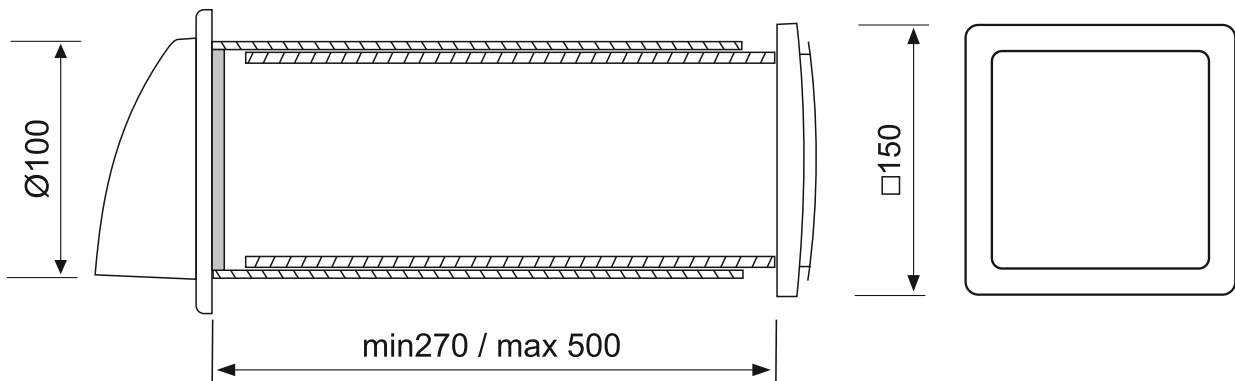
- **Loosen the screws and pull the inner part of the system to you;**
- **Use a screw driver to pull the unit out /FILTER/ (Fig. F).**
- **Replace the filter and slide the unit back into the duct.**

- We recommend periodical cleaning for smooth operation.
- For cleaning use a damp (not wet) cloth. Do not use abrasive cleaners or solvents.
- Do not use cleaning appliances with pressurized water or steam to clean the fan.

Technical data

Rated Voltage	Maximum Flow	Power Consumption		Maximum rotational speed	Protection Degree	Max noise level
		Fan	Ceramic Heater			
Hz/V	m ³ /h	W		min ⁻¹	IP	dB
50/230	35 /45 /60 /70/ 85	6,9 /8,4 /10 /12,8 /19	50+400	1350 - 2750	X4	28

Dimensions / mm /



Minimal wall thickness 27 cm.
Maximal wall thickness 50 cm.

* The elaboration of a ventilation system, adjusted to other than the above wall thickness is possible by a clients request.

The airflow system "Eco-Fresh 01 LUX" is composed of:

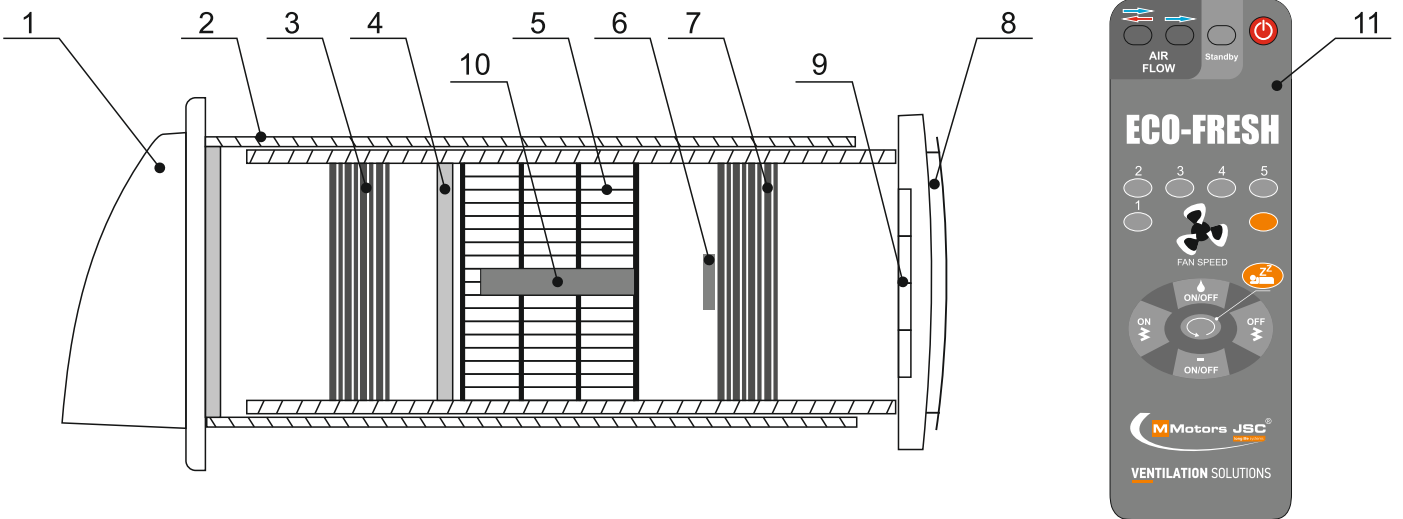



Abb. 1 /Remote control /

1. Outer protective grille– protects the system from humidity even during heavy rains.
2. Extensible air funnel – allows regulation of the system length, depending on wall thickness.
3. Exhaust fan – 5-speed, allows regulation of fan duty from 35m³/h in night silent mode, up to 85m³/h in day mode.
4. Filter with charcoal – guarantees the clean airflow even in strong polluted urban areas and industrial regions. Cleans the air from smells, dust, bacteria, soot, car exhaust gases and other.
5. Heat exchanger – contributes to a significant reduction of heat loss during ventilation.
6. Ionizer – filling up the air with negative ions.
7. Blast fan – 5-speed, allows regulation of fan duty from 35m³/h in night silent mode, up to 85m³/h in day mode.
8. Decorative grille – does not take any space in the room, can be executed in different colors.
9. Control unit with humidity sensor – switches on the ventilation when humidity exceeds 75%.
10. Ceramic heater - (Heater with positive temperature coefficient, self-regulating (50~400W) and economical.)

11. Remote control (Fig.1):

Start/Stop  – switches on/off the system.

AIR FLOW 

- Mode (reversible ventilation with thermal energy recovery).

The system blasts clean air from outside to inside and disposes polluted air out of the room. A heat recovery is observed – process of recovering heat from outgoing warm but polluted air. The warm air which is going out through exchanger is rendering its heat to the incoming clean air. This contributes to a significant reduction of heat loss during winter days. In summer the opposite process is observed – the cool air from air-conditioning which is going out through exchanger is chilling the incoming clean but warm air. In the exchanger is achieved efficiency of heat regeneration that exceeds 90%.

AIR FLOW 

- mode "Air Influx" – the system is constantly submitting clean air from outside to inside. The heater can be switched on only in this mode and delivers fresh air with temperature 23°C.

AIR FLOW 

- mode "Air Exhaust" – by protracted press over 10 seconds the system is working as a fan.

SLEEP 

In sleep mode and without light in the room the system turns off automatically after 10 minutes. At lightening the system will be in working mode after 2 hours retaining the previous settings.


STANDBY


Heater, fan and ionizer are stopped. But the hydrostatic system monitors the humidity and when it exceeds 75% the fan and ionizer are automatically switched on. They stop working 10 minutes after the humidity level drops below 75%.

FAN SPEED

operate the fan speed. A selection between 5 speeds – first speed – 35m³/h in night silent mode, and last fifth speed – max. 85m³/h in day mode.

ON/OFF  - switch on/off the hydrostatic system;

ON/OFF  - switches on/off the ionizer;

ON/OFF  - switches on/off the mode "heating of incoming air".




CAUTION: only AIR FLOW  must be used with working fireplace.

From producer:

With unlit fireplace "Eco-Fresh 01 LUX" is recommended to work in AIR FLOW  mode at first speed 24 hours a day.

LIGHT EMITTING DIODES

Green diode

- when is not lit the system does not work (or work as a fan) Air Flow 
- when it is lit:
 - the system is in mode Air Flow 
 - if flashes the system is in mode Air Flow 

Red diode

- when is not lit the heater is off
- when it is lit:
 - the system is in mode of heating the air, but the heater does not operate if the temperature of incoming air is over 23°C.
 - if flashes the incoming air temperature is below 17°C (only in mode "Air Influx").

Blue diode

- when is not lit the ionizer is off
- when it is lit the ionizer is on

Orange diode

- when is not lit the humidity sensor is off
- when it is lit:
 - the system is in mode of controlling the humidity
 - when flashes the humidity level exceeds 70%

Features

- In Standby mode are lit green, blue and orange diodes, and the system is not working if the humidity is below 70%. When the humidity exceeds that level the ionizer and fan start working automatically on speed 3. The sensor monitors the humidity and 10 minutes after it is reduced below 70% the ionizer and fan stop working;
- The heater can be optionally switched on (red diode is lit), which guarantees warm air inflow when the system is working due to high humidity.
- Desired combination of functions can be chosen from the remote control.