
EcoAIR
Design

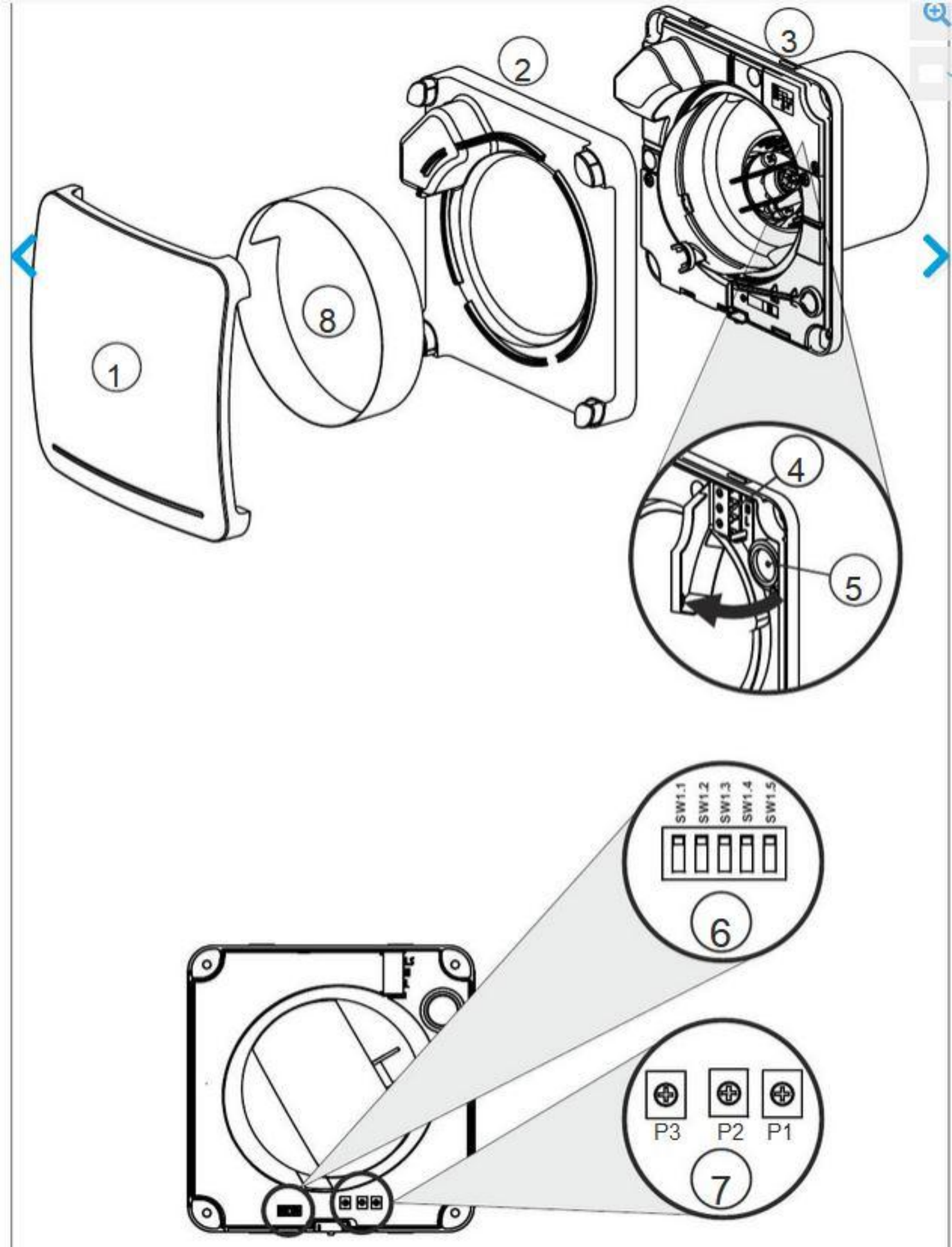


Fig.1

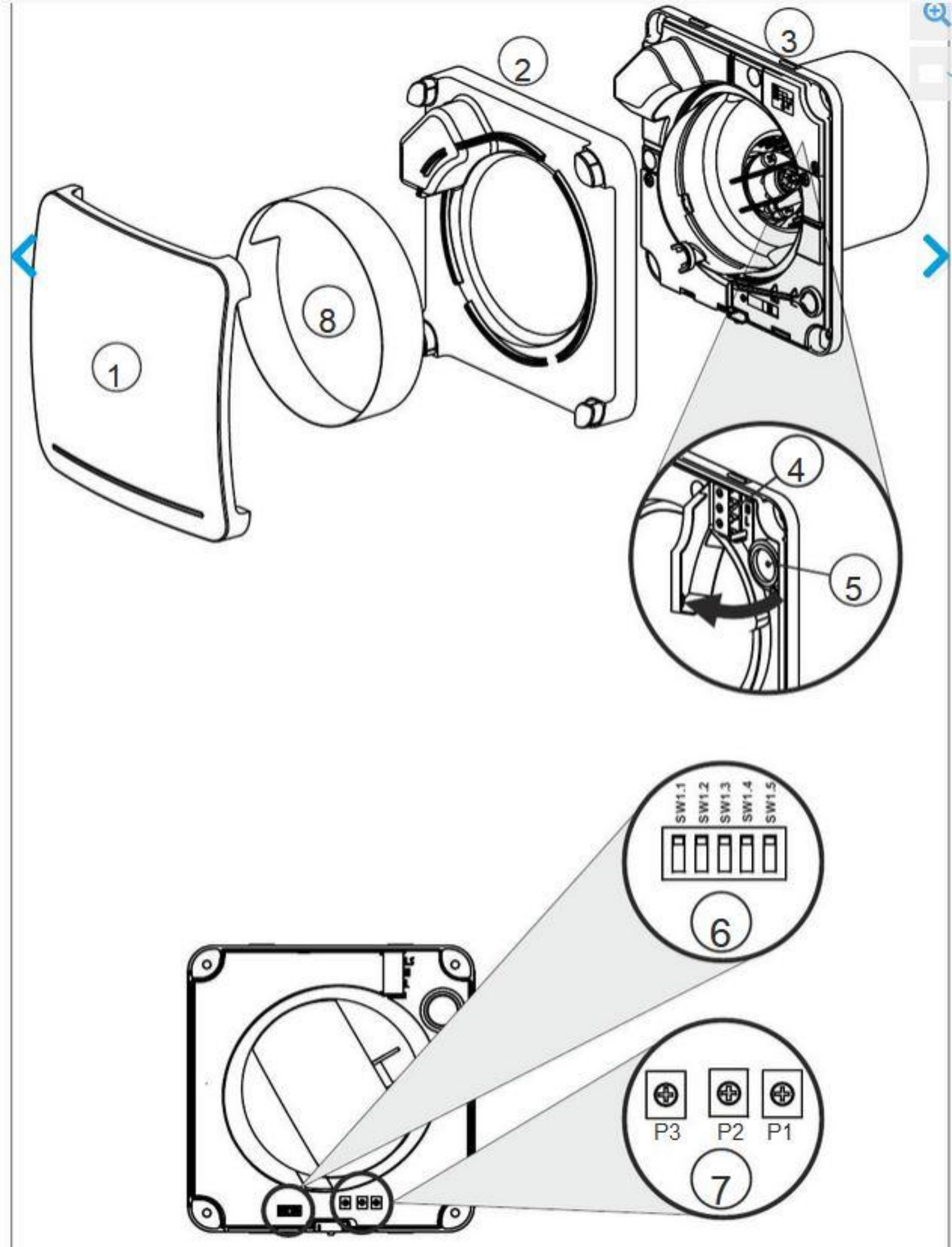
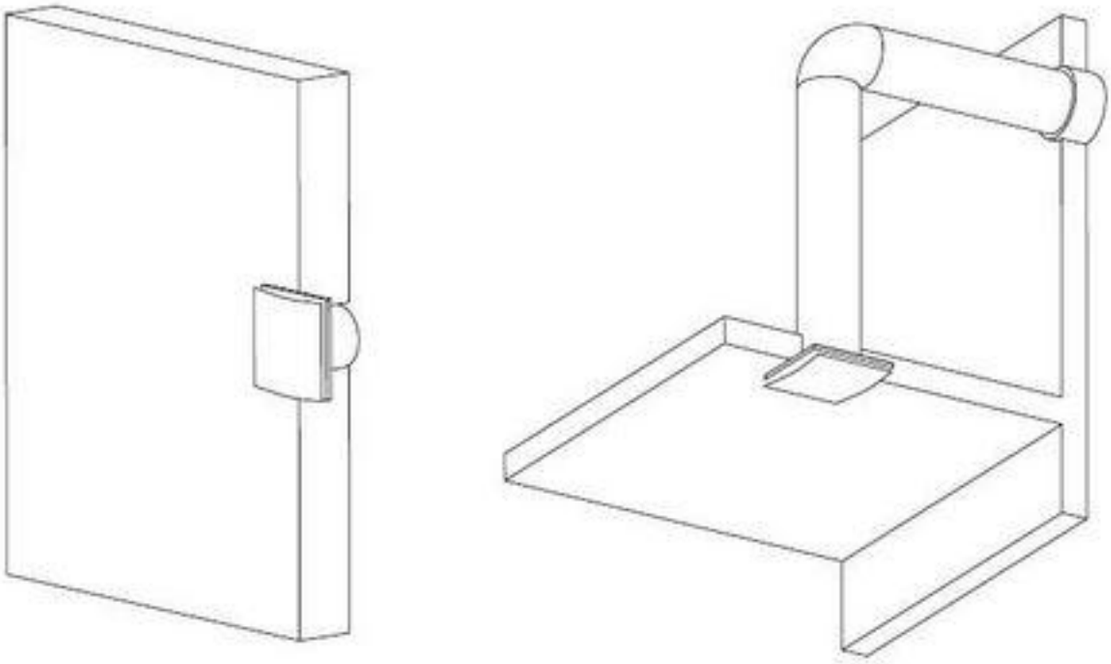
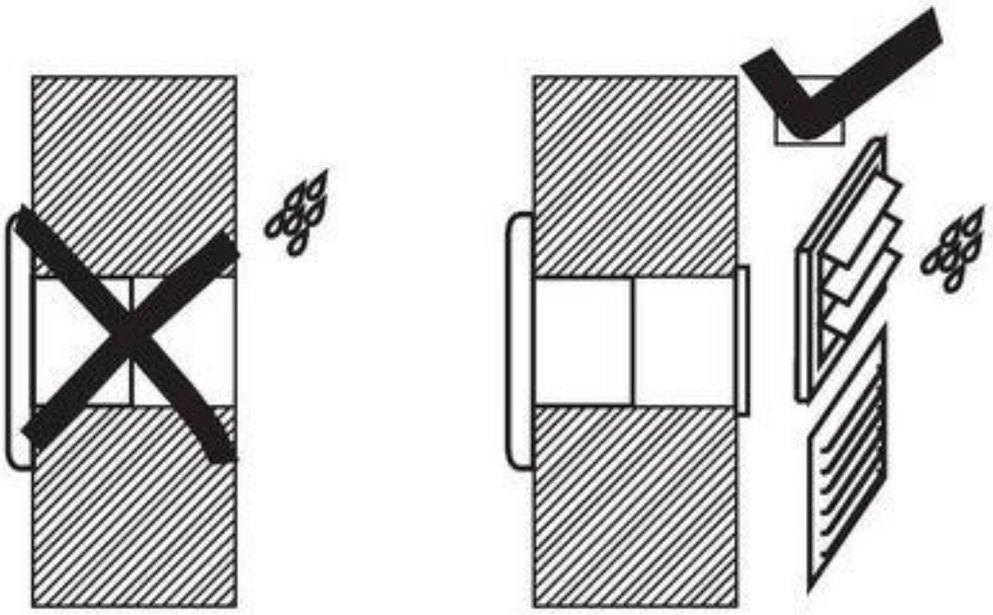


Fig.1





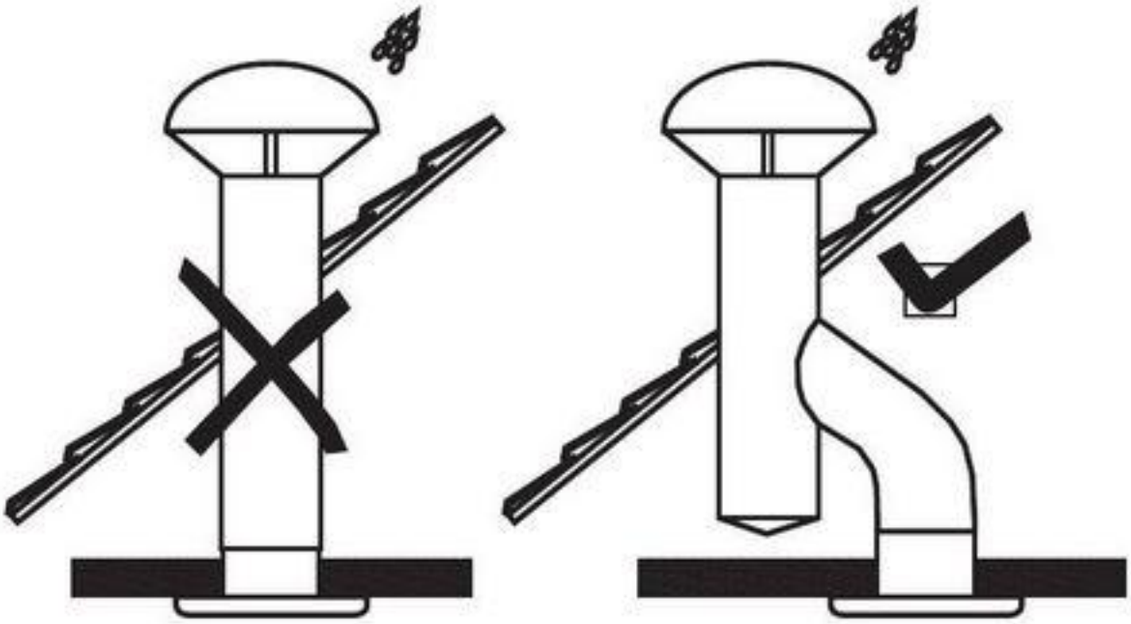
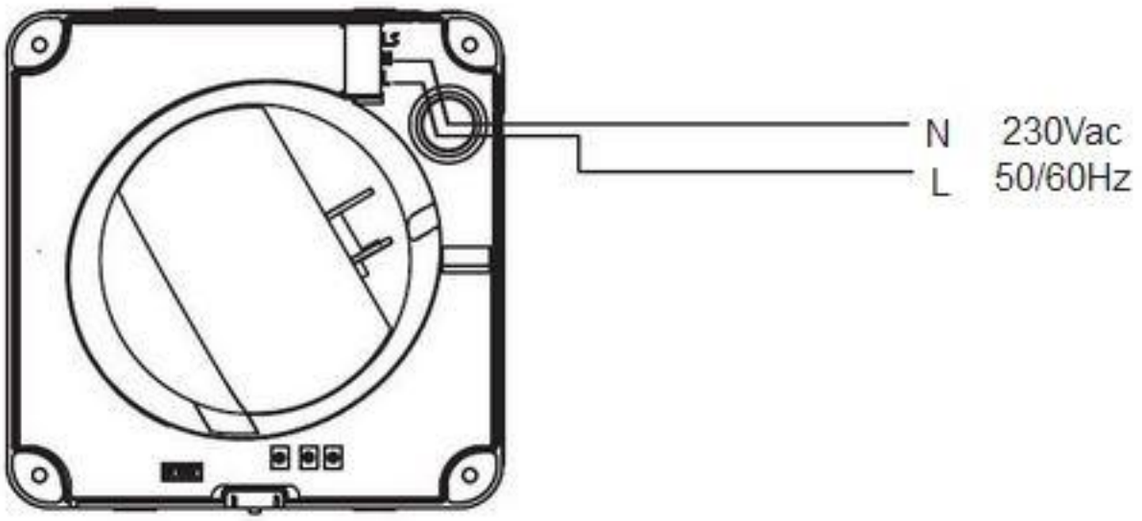


Fig.2

ECOAIR DESIGN



KIT ECOAIR DESIGN + CT-17/18

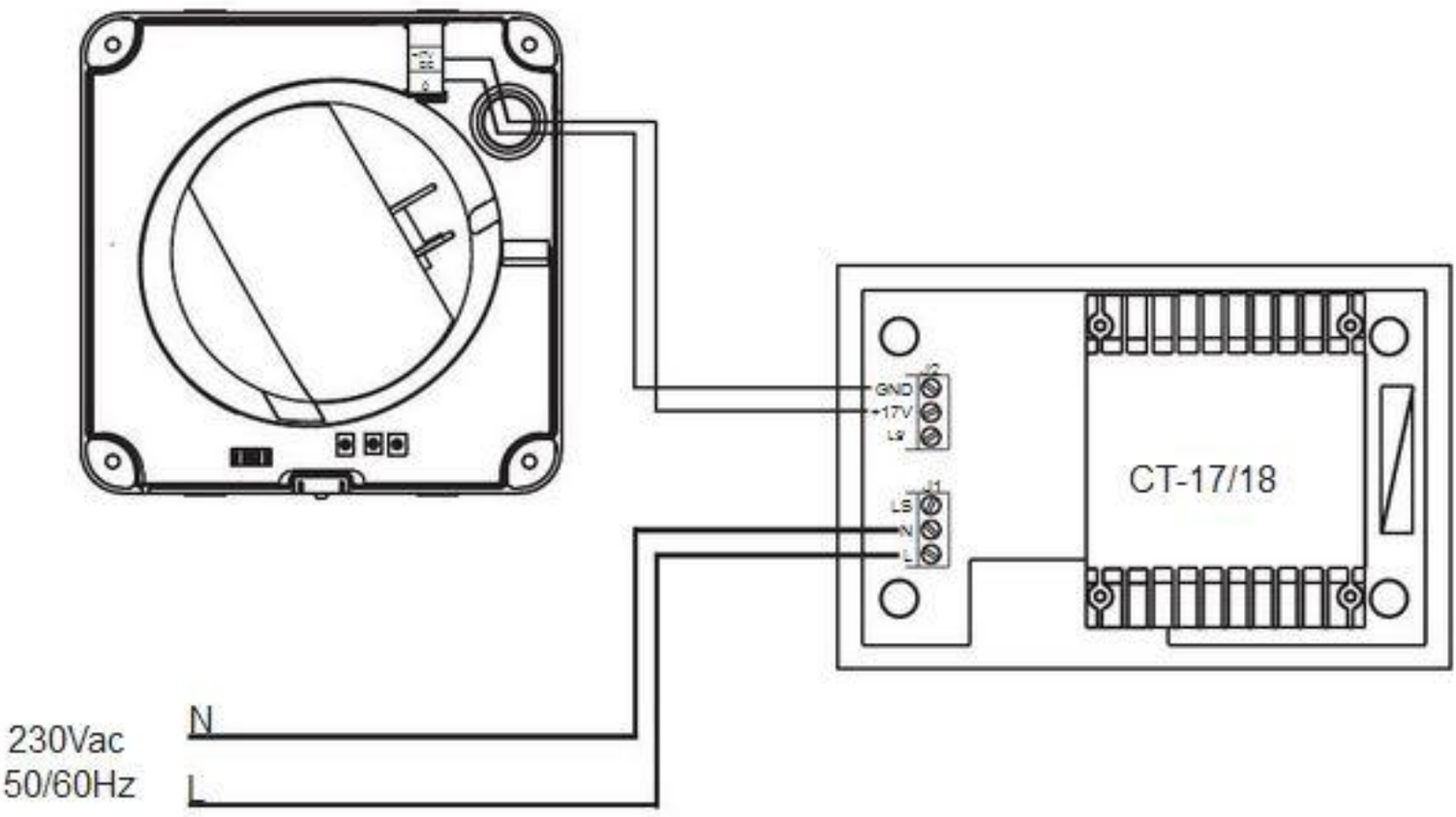
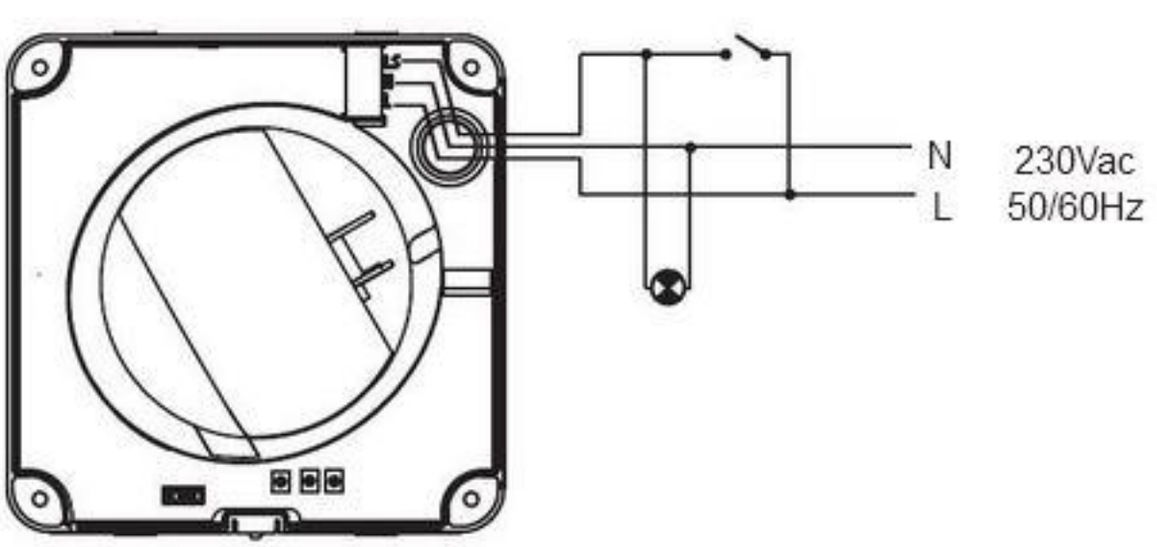


Fig.3

ECOAIR DESIGN



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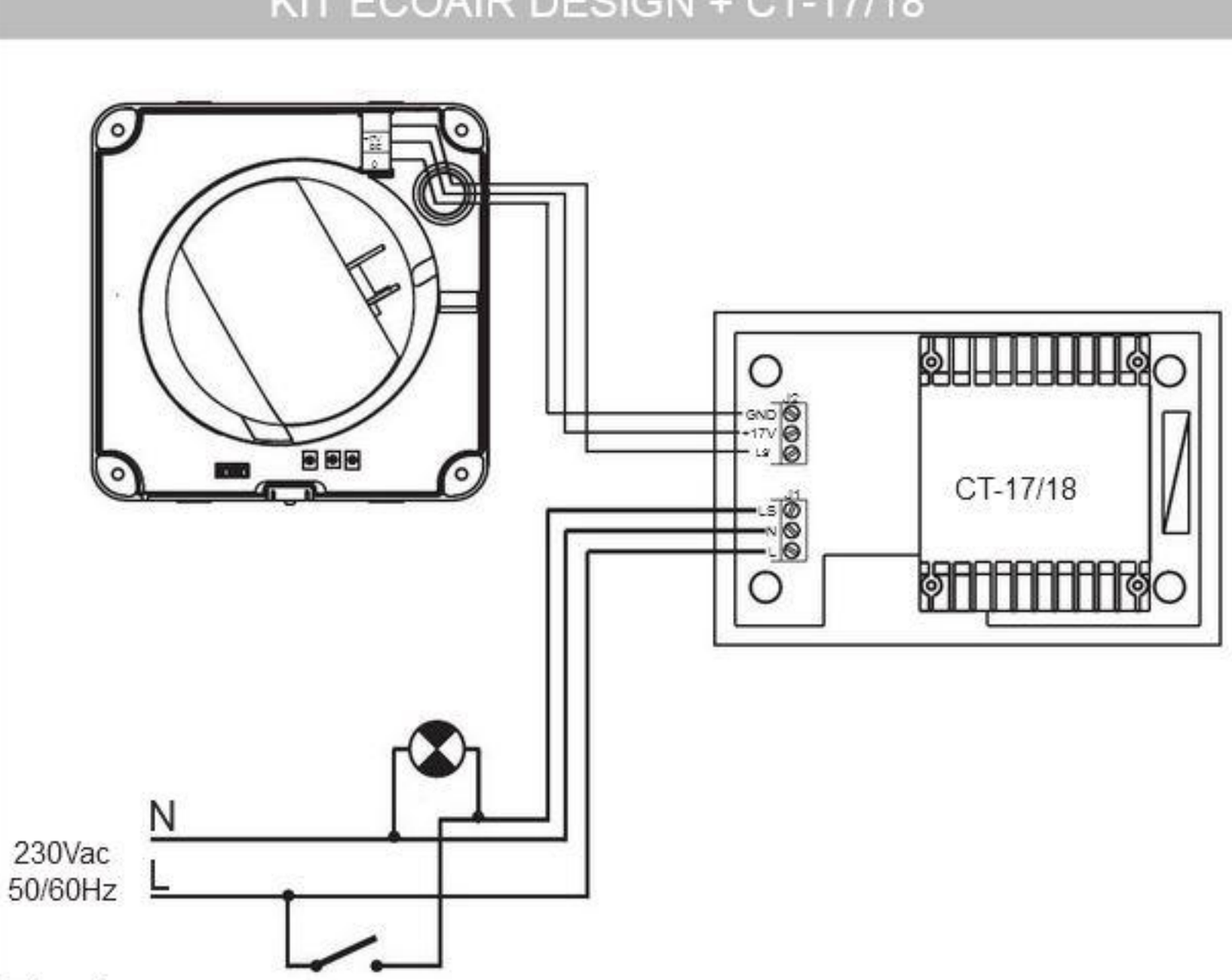
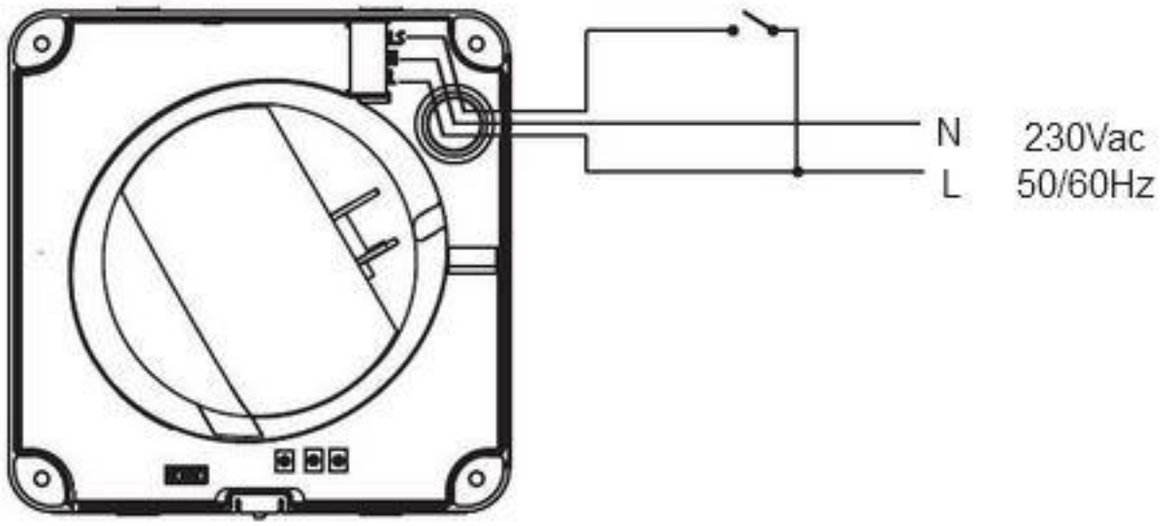


Fig.4

ECOAIR DESIGN



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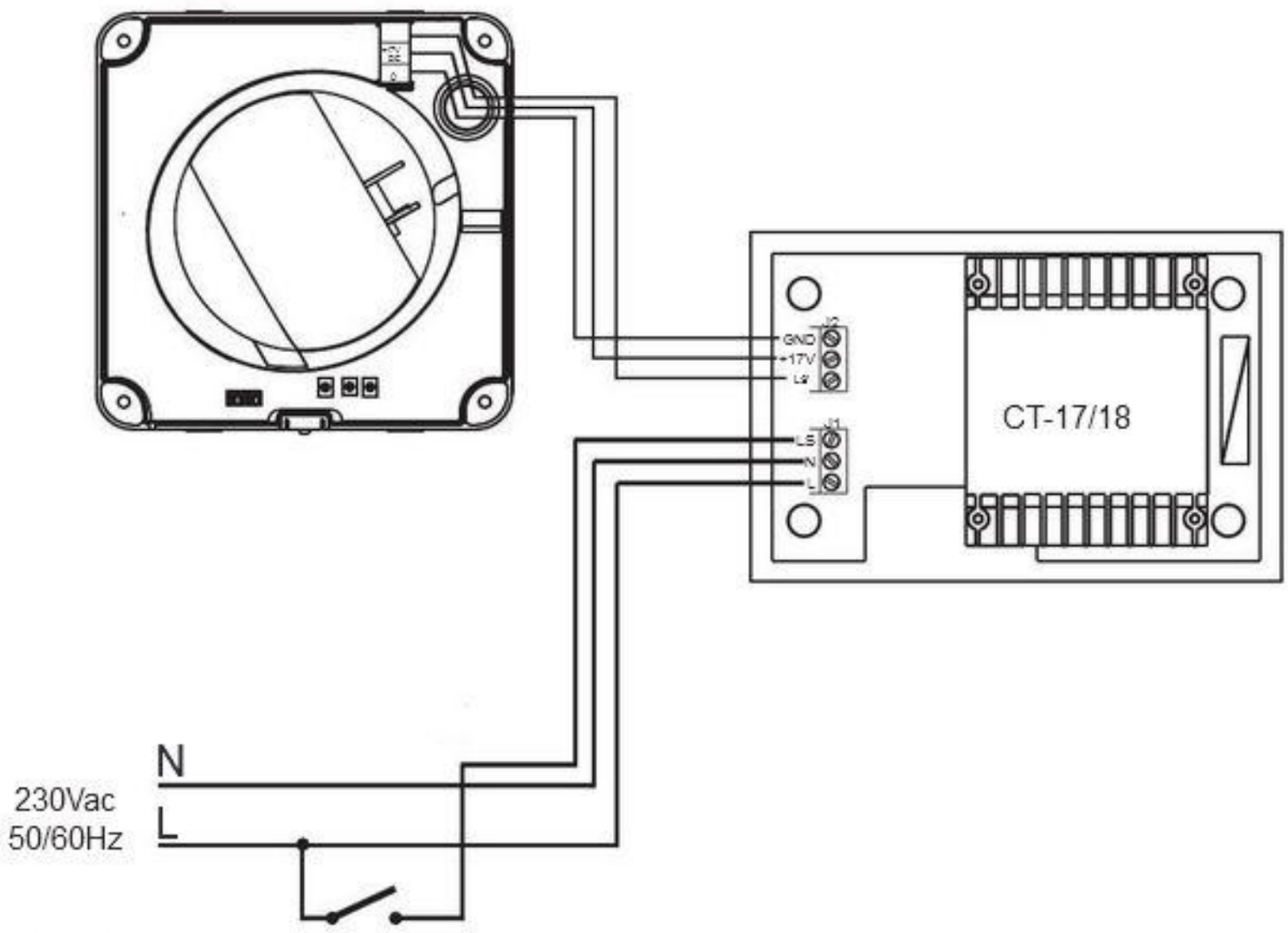

Fig.5

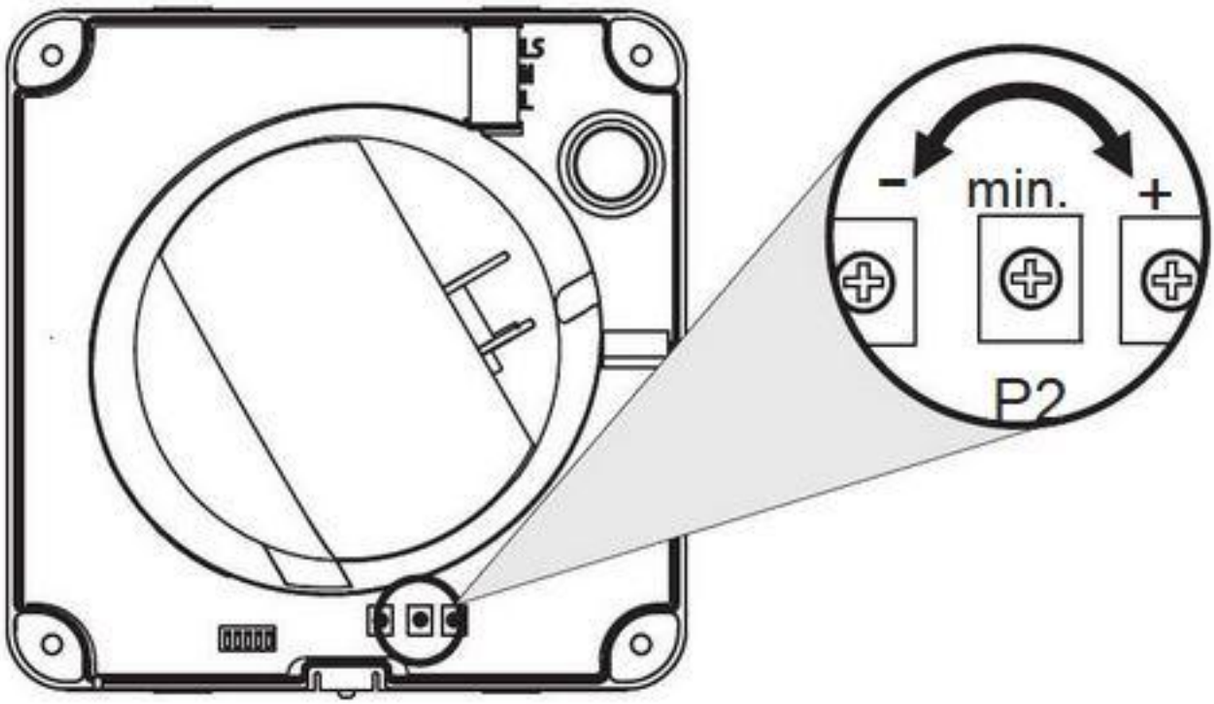

Fig.7

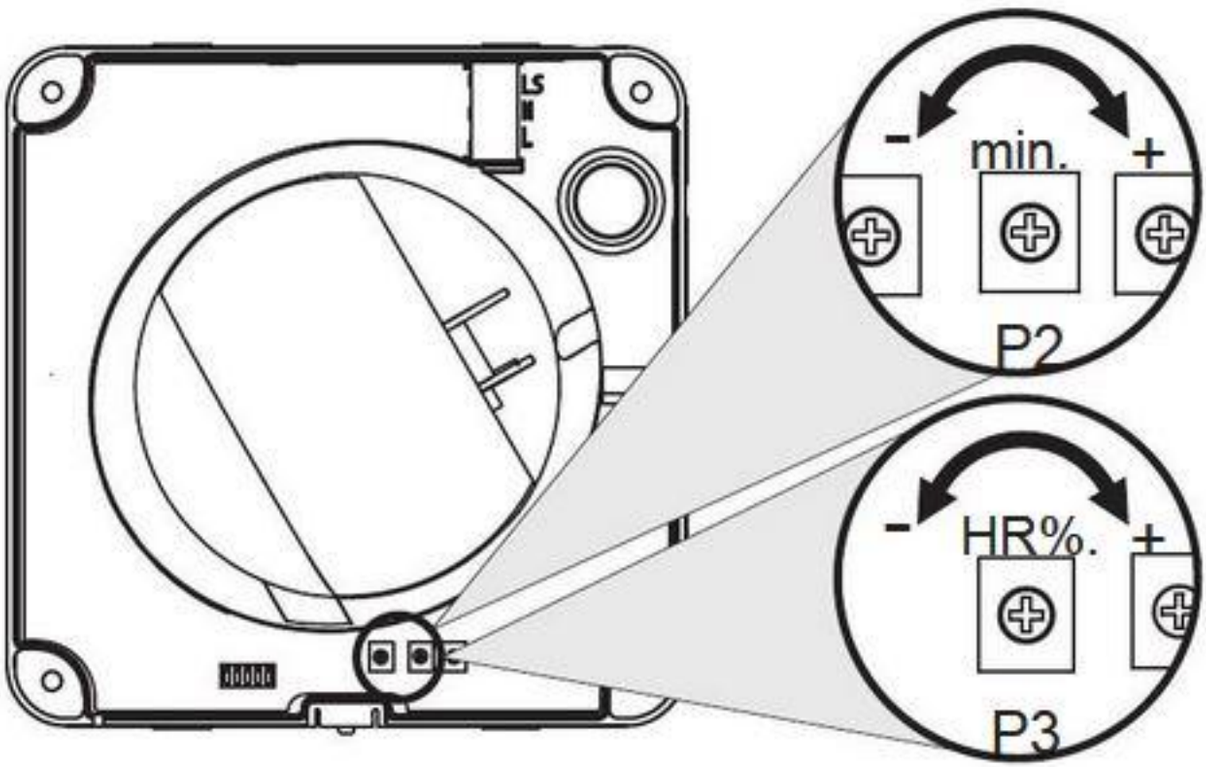

Fig.8

ENGLISH

EcoAIR DESIGN Centrifugal Extractor Fans

The EcoAIR DESIGN extractor fan range is manufactured to the high standards of production and quality as laid down by the international Quality Standard ISO 9001. All components have been checked and every one of the final products will have been individually tested at the end of the manufacturing process.

On receipt of the product we recommend that you to check the following:

1- That it is the correct model.

2- That the details on the rating label are those you require: voltage, frequency...

The installation must be carried out in accordance with the electrical standards in force in your country.

Installation

IMPORTANT: Before installing and wiring the unit, ensure that the main supply is disconnected.

Fig. 1:

1 : Front grille

2: Protection cover

3: Support

4 : Connection terminals

5 : Cable entry

6 : Dip switches

7 : Potentiometer

8 : Air filter

The ECOAIR DESIGN is suitable for wall or ceiling mounting and can either discharge directly to the outside or via an individual ducting system (see Fig. 2).

Make a hole in the wall or ceiling of diameter 105 mm.

If the unit is to be installed with individual ducting, use a standard duct of diameter 100 mm.

Remove the front grille (1) and the protection cover (2).

The unit can be mounted on the wall or ceiling using the 4 rubber blocks and the screws provided.

Ensure that there are no obstructions to the airflow and that the impeller turns freely.

Introduce the mains cable through the cable entry (5) and fix it to the wall.

Connect the electrical wiring as set out below and then mount the protection cover and the front grille.

Electrical connection

The EcoAIR DESIGN is an extractor designed for a single phase supply, with voltage and frequency as indicated on the rating plate of the unit. The units are manufactured with double electrical insulation (Class II) and therefore they do not need an earth connection.

The electrical installation must include a double pole switch with a contact clearance of at least 3 mm.

The electrical cable must enter the EcoAIR DESIGN through the cable entry (5).

Once the cable has been introduced proceed using the electrical wiring diagram applicable to the selected model.

Operation

The EcoAIR DESIGN is an extractor designed to operate continuously at low speed and constant volume.

The constant flow setting is made with dip-switches placed on the electronic circuit board (Fig. 1):

Constant volume		SW dip switch position	
m^3/h	l/s	S	T - H - M
15	4		
22	6		
30	9		
36	10		
45	13		
54	15		

The EcoAIR DESIGN may also operate at high speed hat is activated by an external switch live or light switch (S, T and H versions) or the humidistat built (H and M versions) or the internal pull cord switch (M version).

EcoAIR DESIGN S

The EcoAIR DESIGN S can operate in two modes:

1. Continuous operation only on trickle setting (Fig. 3).
   Once he air volume set the fan is connected to the mains and the unit will operate continuously at this air volume.
2. Continuous operation on trickle with ability to boost at high speed.
   The EcoAIR DESIGN is connected to an external switch or light switch.
   When the switch is closed, the fan goes at full speed (not constant) until he switch opens again (light off):

Fig.4- Wiring diagram to boost the fan with the light switch.

Fig.5- Wiring diagram to boost the fan with a separate switch

EcoAIR DESIGN T

This model is provided with an adjustable over-run timer. The timer allows the fan to continue to operate for the selected period after the switch has been turned off (fig.5).

Fig.4 shows how to connect the fan with timer utilising the same switch as for the lighting circuit to allow the fan to be boosted.

To set the timer, turn the potentiometer "P2" on the printed circuit board as (fig. 7).

- Manufacture setting:1 minute
- To reduce the "run on" time, turn anticlockwise (min. 1 minute)
- To increase the "run on" time, turn clockwise (max: 30 minutes).

EcoAIR DESIGN H

Models provided with an electronic humidistat which can be adjusted from 60% to 90 % RH (relative humidity) and with a timer, adjustable between 1 and 30 minutes.

Operation

Case 1: Automatic operation (fig.3)

In automatic operation, the extractor operates continuously at the setting trickle speed. When the humidity level in the room is higher than the set level the fan is boosted to high speed. When the humidity drops below the selected level and after the selected period set on the timer the fan automatically returns to trickle.

Case 2: Automatic operation as in case 1 with the facility to override the hygrostat by means of an external switch (fig.5) or the light switch (fig.4), when the humidity level in the room is lower than the selected level. In this case, the extractor continues to operate for the selected period set on the timer after the switch light has been switched off.

ATENTION: When the humidity rate is above the selected value, the automatic option takes precedence over the manual.

Settings

The manufacture settings are 60%HR for humidity and 1 minute for timer.

The desired humidity level is selected by means of a potentiometer "P3" positioned on the printed circuit board (fig.8).

- To reduce the humidity setting turn anticlockwise (min.60 %)
- To increas e the humidity setting turn clockwise (max. 90 %)

To set he timer, turn the potentiome ter "P2" on the printed circuit board (fig.8):

- To reduce the "run on" time, turn anticlockwise (min. 1 minutes)
- To increase the "run on" time, turn clockwise (max: 30 minutes).

Specific recommendations:

- If you change the settings of the extractor fan you have to manipulate he potentiometers in the printed circuit board. These pots are fragile and must be handled with care.
- Do not change the setting of the humidistat out of he room where the fan will be installed.
- If the humidity is always above 90% RH, the fan will always run at full speed.
- If the humidity in the room is always less than 60%, the fan will only operates at trickle speed when running in automatic operation.

If the fan never runs at boost:

- The setting of the humidistat is to the maximum. Change the setting
- The level of humidity in the room is below 60% RH

If the fan always runs at boost

- The setting of he humidistat is to the minimum. Change the setting
- The level of humidity in the room is above 90% RH

EcoAIR DESIGN M

EcoAIR DESIGN version similar to H model, fitted with an internal pull cord switch to operate the boost when the humidity level is below the set point (fig.6)

When switching off the internal pull cord switch, the fan continues to operate at boost the time set by the timer then runs at trickle speed, unless the humidity level exceeds the set point.

User instruction

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Maintenance

The extractor fan only requires periodical cleaning using a cloth lightly impregnated with a soft detergent.

After Sales Service

We recommend you not to try to dismantle or remove any other parts than those mentioned as any tampering would automatically cancel the S&P guarantee. If you detect any fault, contact your S&P dealer.