Control box for industrial fan heater and air curtain

Manual guide

1- **Description**
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3- **Connection**
4- **Operation**

width = 147 mm   height = 71 mm   depth = 28 mm

1- Description

The screen displays either the adjusted temperature as well as the operating modes
Connection to the heater with 2 low voltage wires (no polarity)
The control box can drive up to 20 units, each other being connected with a single wire
Buttons: stop/on
            + and –
            screen
            function and speed selector

Functions

The control box enables to adjust and to display the required room temperature or the heating level
In order to ensure a quality heating, the temperature sensor is located in the heater.
It also enables to select one of the 6 available operating modes:
- high power with low or high speed
- low power with low or high speed
- ambient air temperature with low or high speed

type of mounting: on the fan heater (1) or on the wall (2 or 3)

Easy and quick connection: - 2 wires (no polarity) between the control box and the heater
                              - 1 wire between the heaters

2- Mounting

A/ wall surface mounting

The control box is supplied standard
with a support for mounting on any type of wall.

insert the 2 x 1.5 mm2 supply wires through the rear or through
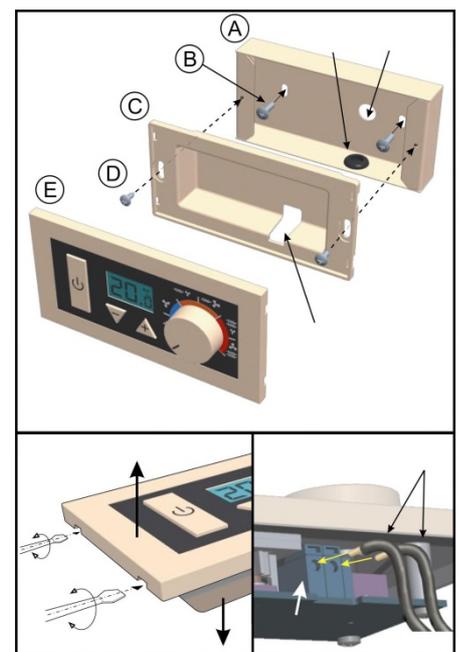the bottom hole: see the arrows on the herewith drawing

fix the support A to the wall with 2 screws B (diameter: 5.5 mm
max), not supplied

remove the back side C of the control box from the front (E),using
a screwdriver

insert the supply wires through the opening (arrow). Then, screw
the back side C to the support (A) using the 2 supplied screws.

connect the 2 wires to the terminals of the control box

clip the front panel E to the box.

B/ recess type mounting

remove the back side (C) from the front panel (E), using a
screwdriver

insert the 2 x 1.5 mm2 supply wires through the opening of
the back side. Then, screw the back side to the wall support
using the 2 supplied screws.

connect the 2 wires to the terminals of the control box

clip the front panel to the back side

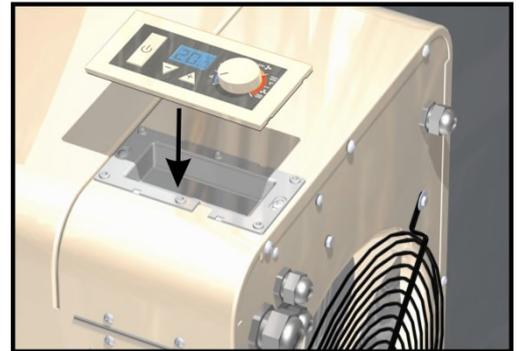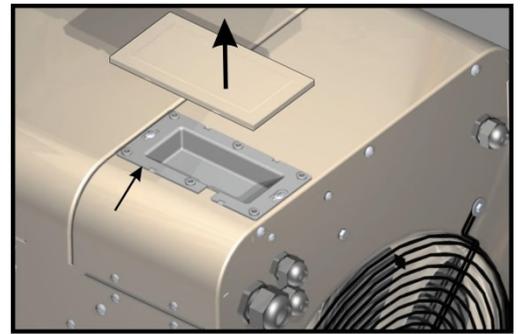## C/ mounting onto a fan heater

remove the cover using a screwdriver

open the mobile cover of the fan heater (see instructions in the manual guide of the fan heater

prepare 2 wires: 1.5 mm2 ; length: 40 cm

connect them to the electronic plate of the heater. Insert the wires through the opening of the back side of the control box.
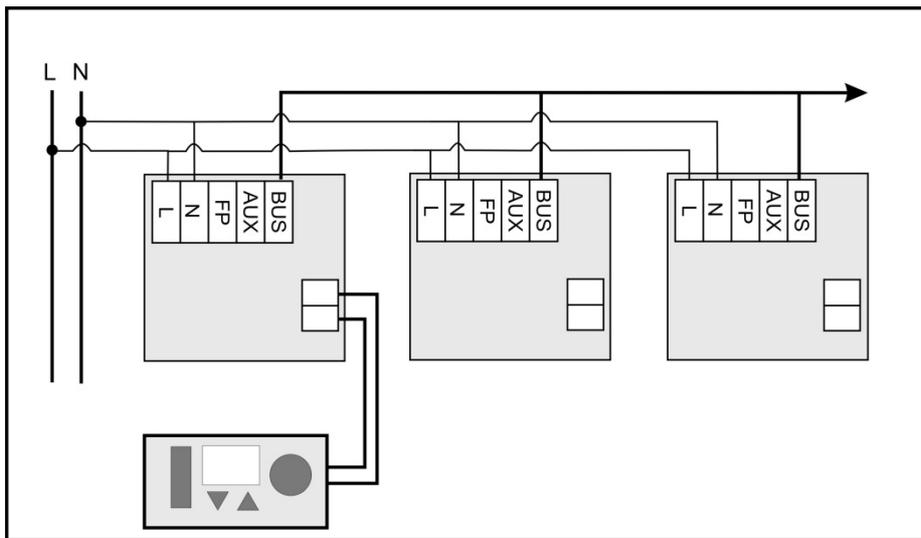
Connect the wires to the terminals of the control box

Clip the front panel to the back side

3- Electric connection

Have all the heaters connected the same way as per the hereunder electric diagram:

Diameter of the 2 wires between the control box and the heater:
- up to 25 m: 1.5 mm2
- up to 50 m: 2.5 mm2

Important warning: do not connect to the mains till the complete connecting work is made.

Connection to the terminal block:

Connect the 2 wires to the terminal block marked with a circle on the herewith picture (no polarity)

3 other terminals:
A: possible connection of a Bus wire
B: possible connection of a room thermostat
C: possible connection of a pilot wire for connection to a remote programming device

4- Operation

When shut down, no segment on the screen.
Press on the On button. The screen is On and displays a temperature

A/ Manual mode   Select the required function. From left to right:
ambient fan + low speed
ambient fan + high speed
low power + low speed
low power + high speed
high power + low speed
high power + high speed

NB: when on the 2 first position (blue zone), the appliance blows the ambient air.
Display: Fd.

Adjustment of the temperature: press on + or - (step value: 0.5°C.). Range: 7 to 27°C.
NB: when pressing continuously, display is by step of 0.5°C.

Stop: press the On/Off button.
Ventilation keeps on turning during 3 seconds when working at the ambient temperature and during 1 minute about when working with low or high power in order to cool down the heating elements.
Display during this period: a rotating helix.

How having the set temperature matching the current room temperature ?
Set temperature should be within 17°C and 22°C (otherwise, display is FF)
Press the On/Off button during 3 seconds. The set temperature appears. Adjust the temperature, using the + and – buttons (step value 0.5°C.) within a range of 2°C from the set temperature
Press the On/Off button to be back to the initial menu.
Display is automatically back to the initial menu after 15 seconds when no action on the + and – buttons

Locking the control box:
Press simultaneously + and – .
BLO appears. Do the same again for cancelling the locking (dEb)
This locking blocks all the functions of the box including any action on the rotating selector.

Faulty heater sensor: the symbol EE appears

Heating demand indicator:
When heating is on demand, a small point appears at the top left corner of the screen