

## **QUICK MANUAL FOR USE AND INSTALLATION**

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# **&LEMENT**AIR

E - MARK II

The Quick Manual will guide you through a quick installation of the product, but in no case could it replace the full operating manual. A complete operating manual is available on our website www.xvent.cz and available for download using a QR code.

Use the smart device (mobile phone, tablet, etc.) equipped with this technology to read the QR code.



The regulator may only be installed and connected by a trained person with the appropriate authorization to connect electrical equipment and with suitable tools and means.





#### **Description of the regulator**

The regulator is used to continuously control the speed of the EC fan. The fan speed may also be controlled by an integrated room thermostat, depending on the temperature of the area. The fan speed control and thermostat control is implemented as continuous adjustment on the front panel of the regulator. For information on the operation of the connected equipment, a signal diode is located between the (turning) control elements. Furthermore, the regulator is equipped with a 1~230VAC phase contact 1~230VAC and a 12VDC lowpotential contact. The regulator is designed for wall installation. The maximum recommended distance of the regulator from the controlled EC-motor is 100 m at conductor cross-section of 1 mm<sup>2</sup>. Longer or shorter distances are possible depending on the selected conductor crosssection and the resulting real voltage loss calculation. Controller can be switched between heating mode and screening mode.

- Heating fluent fan speed based on required temperature. Once the door switch is disconnected, the fan operates at maximum speeds.
- Screening minimum fan speeds based on required temperature. Once the door switch is disconnected, fan speeds is possible to control

#### Description of controls and connecting terminals

Indicator diode – indicates operation of the entire regulator. If the diode is lit, the regulator is on. If the regulator is not lit, the regulator is switched off.



Continuous fan speed regulator -Room thermostat - allows allows continuous fan speed the adjustment of the adjustment in any position from required temperature in the minimum to maximum speed as range of 5 to 35°C. Based on required by the user. The "OFF" the difference between the position allows the entire ambient temperature and regulator to be switched off. the required temperature, The "OFF" position does not the connected equipment is ensure isolation of the switched off or on. It is also controlled equipment from the it possible to deactivate the supply voltage; isolation needs room thermostat by to be ensured separately on switching to the "OFF" end the supply side. position.

Control voltage terminals from the EC

fan 0-10VDC (+); GND (-). Regulator control range 2-10VDC. Contact load capacity: max 2mA Recommended cross-section of conductors: from 0.5 mm2 to 1.5

Clamp for regulator control by means of magnetic potential-free contact logic of NC (opening) contact

Contact load capacity: 12VDC / 10 mA Recommended cross-section of conductors: from 0.5 mm2 to 1.5 mm2.

#### Jumper

Desc.: switching the modes of fan control.

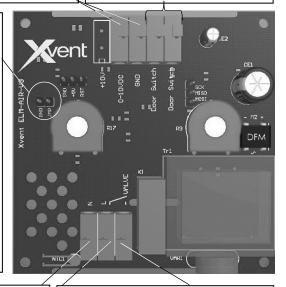
- heating mode jumper is plug in. (Factory setting)



- Screening mode jumper is removed



Regulator power supply terminals 1~230VAC 50/60Hz Max. regulator current capacity: 230 VAC / 5A Recommended cross-section of conductors: 1.5mm<sup>2</sup>



Terminal for exchanger fixture servo control The contact only interrupts/controls the phase conductor, which is connected to the supply phase of regulator. The neutral conductor is connected directly from the power supply. *Maximum current capacity:* 230 VAC / 5A (resistive load)

#### **Technical parameters**

- 1~230VAC 50/60Hz - Input voltage
- Temperature adjustment range 5-35°C
- Protection class IP20
- Current

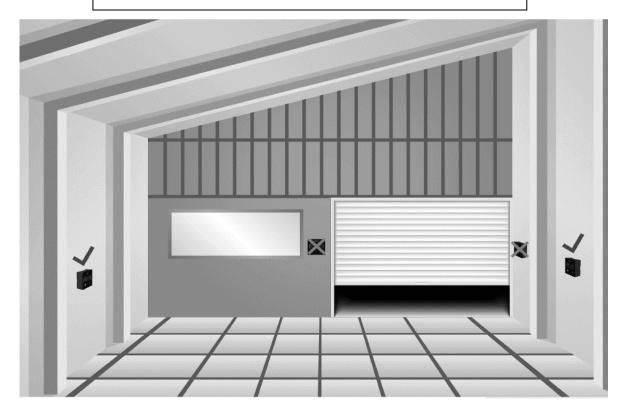
5A - Dimensions 85 x 85 x 30mm

- Weight 0.16Kg

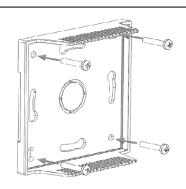
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### POSITIONING AND INSTALLATION OF THE ELEMENTAIR CONTROLLER



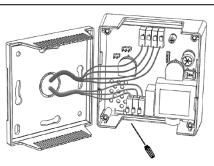
INSTALLATION ON A SUB-PLASTER OR SURFACE-MOUNTED ELECTRICAL JUNCTION BOX



DISASSEMBLY OF THE CONTROLLER FRONT COVER



CONNECTING POWER SUPPLY AND CONTROL CABLES



COMPLETING THE CONTROL PANEL AFTER CONNECTING (COMPARE THE CABLES TO AVOID DAMAGE)

