

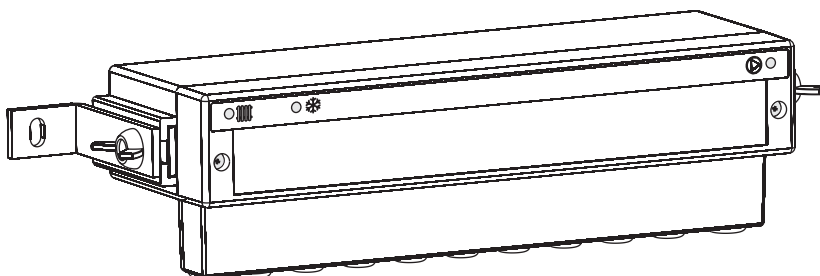
I **BARRA DI COMANDO PER ATTIVAZIONE FINO A 8 ELETTROVALVOLE DI ZONA E COMANDO AUSILIARE (POMPA)**

GB **WIRE CONNECTION CONTROL BOX FOR THE ACTIVATION OF UP TO 8 ELECTRO-VALVES IN MULTI-ZONE INSTALLATIONS AND AUXILIARY COMMAND (PUMP)**

F **BARRE DE COMMANDE À RACCORDEMENT ÉLECTRIQUE POUR ACTIVATION JUSQU'À 8 ÉLECTROVANNES DE ZONE ET COMMANDE AUXILIAIRE (POMPE)**

D **BEDIENTLEISTE MIT LEITUNGSANSCHLUSS FÜR DIE AKTIVIERUNG VON BIS ZU 8 ELEKTRISCHEN ZONENVENTILEN UND HILFSSTEUERUNG (PUMPE)**

E **BARRA DE MANDO CON CONEXIÓN POR HILO PARA LA ACTIVACIÓN DE HASTA 8 ELECTROVÁLVULAS DE ZONA Y MANDO AUXILIAR (BOMBA)**



- alimentazione 230V~
- controllo della temperatura ambiente fino a 8 zone
- possibilità di collegare un interruttore orario esterno
- possibilità di collegare un selettore esterno per la forzatura in modalità: RISCALDAMENTO o RAFFRESCAMENTO

- supply voltage 230V~
- room temperature control in up to 8 zones
- possible connection of an external time switch
- possible connection of an external switch for forcing HEATING or COOLING modes

- alimentation 230V~
- contrôle de la température ambiante jusqu'à 8 zones
- possibilité de brancher un interrupteur horaire externe
- possibilité de brancher un sélecteur externe pour le forçage des modes: CHAUFFAGE ou RÉFRIGÉRATION

- Stromversorgung 230V~
- Kontrolle der Raumtemperatur in bis zu 8 Zonen
- Möglichkeit, einen externen Zeitschalter anzuschließen
- Möglichkeit, einen externen Wahlschalter zum Einstellen der Modi HEIZEN oder KÜHLEN anzuschließen

- alimentación 230V~
- control de la temperatura ambiente hasta en 8 zonas
- posibilidad de conectar un interruptor horario externo
- posibilidad de conectar un selector externo para el forzado en modo: CALENTAMIENTO o ENFRIAMIENTO

Modelli:

- 4 zone + 1 comando ausiliario (es. per pompa)
- 6 zone + 1 comando ausiliario (es. per pompa)
- 8 zone + 1 comando ausiliario (es. per pompa)

Models:

- 4 zones + 1 auxiliary command (pump)
- 6 zones + 1 auxiliary command (pump)
- 8 zones + 1 auxiliary command (pump)

Modèles:

- 4 zones + 1 commande auxiliaire (ex: pour pompe)
- 6 zones + 1 commande auxiliaire (ex: pour pompe)
- 8 zones + 1 commande auxiliaire (ex: pour pompe)

Modelle:

- 4 Zonen + 1 Hilfssteuerung (z.B. für Pumpe)
- 6 Zonen + 1 Hilfssteuerung (z.B. für Pumpe)
- 8 Zonen + 1 Hilfssteuerung (z.B. für Pumpe)

Modelos:

- 4 zonas + 1 mando auxiliar (ej. para bomba)
- 6 zonas + 1 mando auxiliar (ej. para bomba)
- 8 zonas + 1 mando auxiliar (ej. para bomba)

TECHNICAL SPECIFICATIONS

Power supply voltage:	230 V~50 ÷ 60 Hz
Type of fuse (F1):	T 2A/250V~ delayed (Ø5x20)
Type of action/device:	1B / electronic
Rated impulse voltage:	4 kV
Control box circuit absorption:	5 VA
Input/output capacity:	
- Electro-valves (actuators) / thermostats:	8 x 3W @ 230V~ (depending on the model)
- time switch:	2A
- I/E switch (Heating/Cooling):	2A
- pump (burner, ventilation):	n° 1 relay with single pole contact, voltage-free NA/NC/COM - 10(2) A / 250 V~
Sections of wires to terminals:	
- control box power supply:	2 x 1,5 mm ²
- pump (burner, ventilation):	2 x 1,5 mm ²
- I/E switch(Heating/Cooling):	3 x 0,75 mm ²
- thermostats:	3 x 0,75 mm ²
- time switch:	2 x 0,75 mm ²
- electro-valves (actuators):	2 x 0,75 mm ²
Insulation type:	class II 
Protection degree:	IP 30
Pollution:	Normal
Operation temperature limits:	-10 °C ÷ + 50 °C
Storage temperature limits:	-25 °C ÷ + 85 °C
CE reference standard:	LVD EN 60 730-1 EMC EN 60 730-1

INSTALLATION NOTES AND INSTRUCTIONS FOR USE

DESCRIPTION AND PERFORMANCE

A control box is a device that allows you to control the room temperature in up to 4 or 6 or 8 zones (according to the chosen model), via the connection of thermostats and electro-valves (actuators).

For each zone a thermostat can be connected which opens the relevant electro-valve upon closure of the contact.

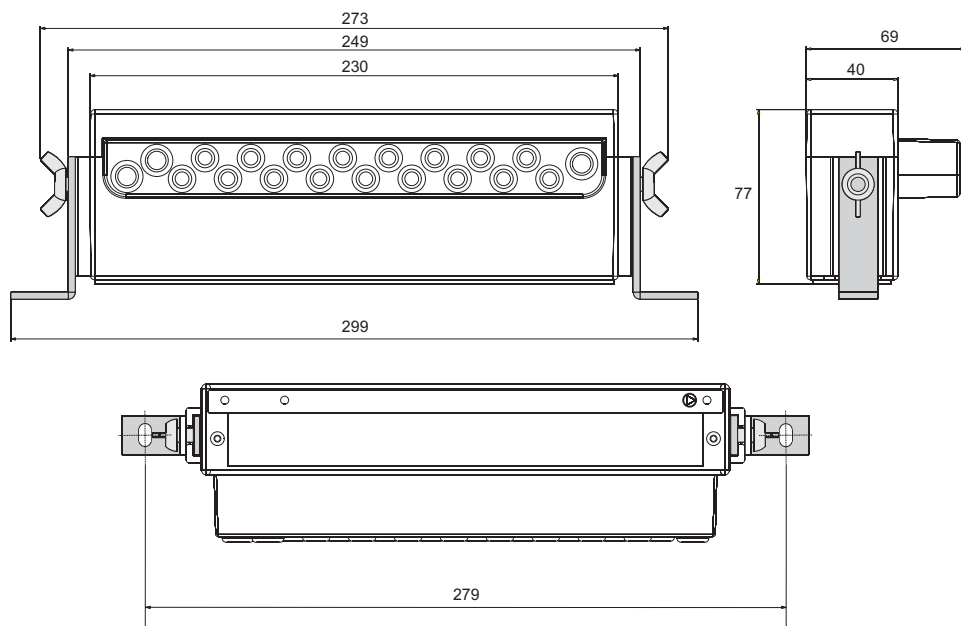
Moreover, the device is equipped with:

- N° 1 auxiliary command output (for pump, burner or ventilation) which is activated in presence of at least an open electro-valve.
- Activation of the pump at the same time of the electro-valves or delayed by 2 minutes. The mode can be selected via the switch located on the control box electronic board.
- N° 1 input for connecting an external time switch for the programmed control of thermostats and electro-valves.
- You can force the HEATING (by default via jumper) or COOLING modes via the connection of a switch.

On the front lid there are the following LEDs:

-  Green LED - when on, it indicates the presence of mains power supply 230V~ with forced HEATING mode).
-  Green LED - when on, it indicates the presence of mains power supply 230V~ with forced COOLING mode).
-  Red LED - indicates the status of the pump command output (burner etc.). LED on = activated output.

DIMENSIONS



1 - INDICATIONS

Green LED on = ON (mains voltage inserted)

HEATING mode operation

Green LED VERDE on = ON (mains voltage inserted)

COOLING mode operation

State of the output
Pump command
LED on = output activated

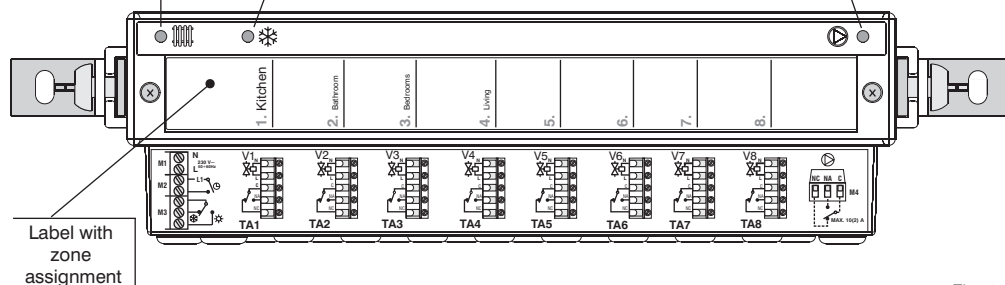


Fig. 1

2 - INSTRUCTIONS FOR THE INSTALLER

2.1- INDICATIONS AND RULES FOR THE INSTALLATION OF THE CONTROL BOX

Important: installation and electrical connection of devices and appliances must be carried out by qualified personnel and in compliance with current regulations. The manufacturer declines any liability in connection with the use of products subject to special environmental and/or installation standards.
The examples shown in this document are of principle.



SAFETY WARNINGS

- Read carefully the instructions booklet before installing the device and keep it at hand for future consultation.
- **Before carrying out any electrical connection make sure to DEACTIVATE THE 230 V~ SUPPLY VOLTAGE.**
- Carefully respect the indications and rules present in the instructions of the devices to be piloted and that can be connected to the appliance.
- Make sure that the loads to be connected are not higher than the values indicated in the technical specifications.
- During installation and electrical connection of the control box using tools in proximity of the electronic board, pay the utmost attention in order to prevent any damage to the circuits or components.

The manufacturer reserves the right to make all technical and manufacturing modifications deemed necessary without prior notice.

Example of installation in box for distribution manifolds

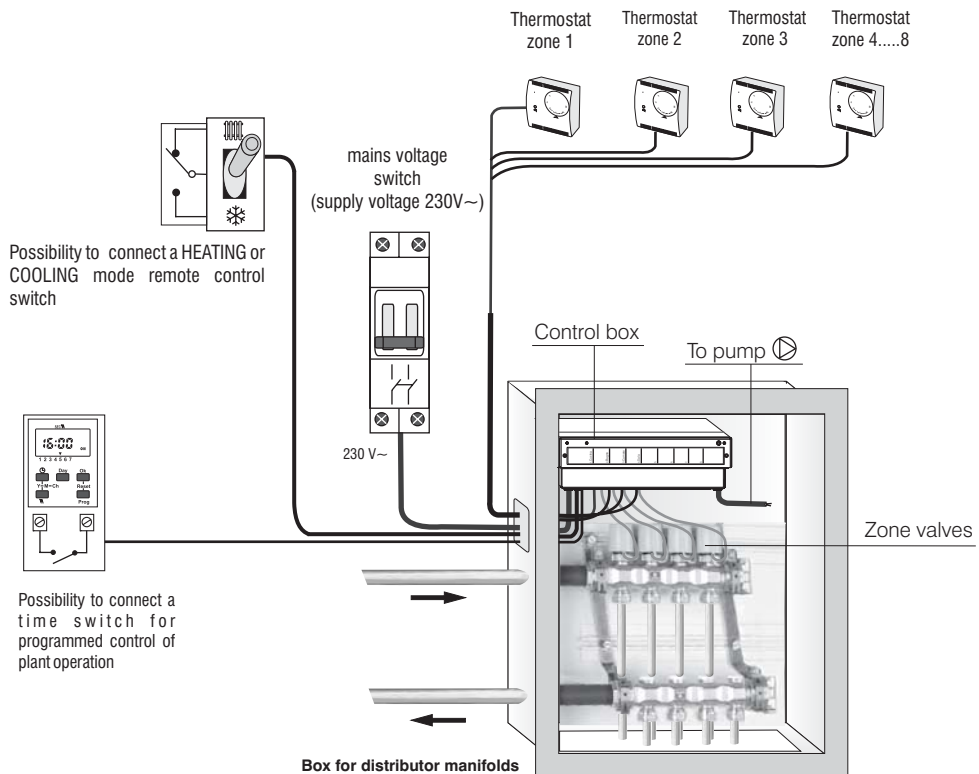


Fig. 2

2.2 - INSTALLATION OF THE CONTROL BOX

With reference to the figures below:

- Remove the front part **F** of the control box by removing captive screws **V**.
- Remove the wire-holder base **B** and remove the plastic hole covers with the help of a suitable tool (fig. 4)
- Insert the rubber grommets type **G1** and **G2** in the holes.
- Drill 2 fixing holes for the supports **S** on the wall (or in the box).
- Fix supports **S** to the wall using screws.
- Place the body **C** of the control box so that the holes of supports **S** are superimposable parallel to the threaded holes of plates **P**. Then insert the butterfly screws **VF** with washers **R** in the holes of the supports and tighten the plates so to lock the body of the control box **C**.

Note: by loosening screws **VF** you can rotate the control box vertically (up and down) in order to simplify the electrical connection operations.

- Insert the wires in the wire-holder base **B** and carry out the electrical connections to the terminals as shown in the electrical diagram according to the type of plant.
- Should you wish to select the pump control activation mode (Instant/Delayed), slightly extract the control box electrical circuit board and act on the relevant switch as indicated in the following paragraph. Once this operation has been completed, reinsert the board.
- Reinsert base **B** in its housing.
- Close the front part **F**, the body **C** of the control box and lock it with screws **V**.
- Write the correspondence of each zone (e.g. bedrooms - living room) on the label provided and apply it on the front part of the control box.

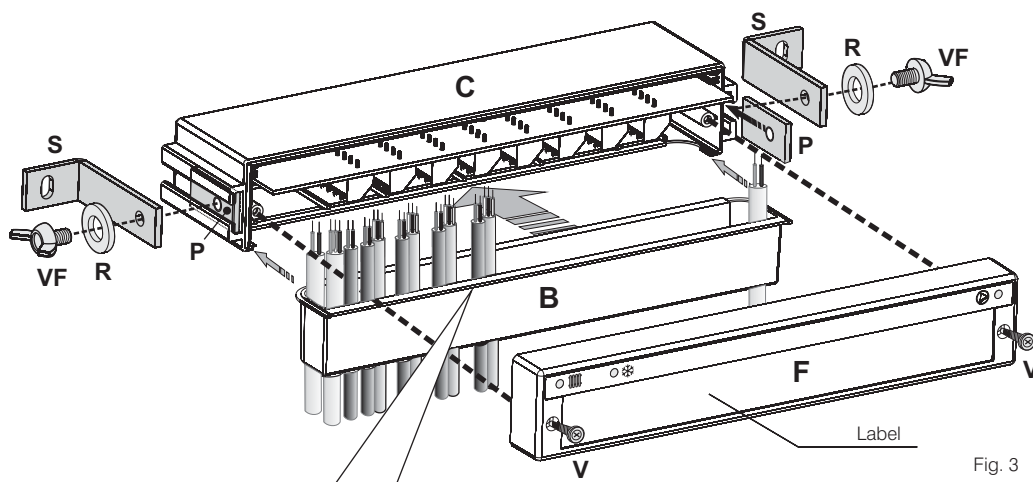
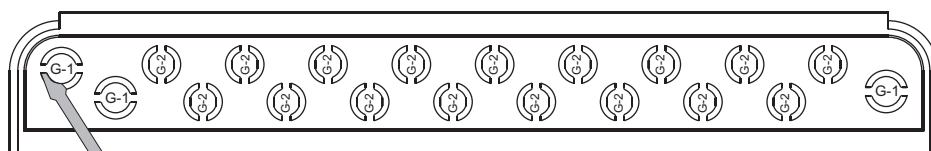


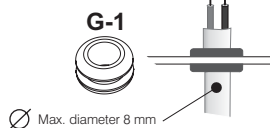
Fig. 3



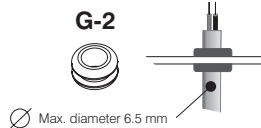
Remove the hole covers from the wire-holder base and insert the rubber grommet
Note: in case for the type of installation no grommets are used, leave the hole covers intact.



Rubber grommets
Example of wire passage



Ø Max. diameter 8 mm



Ø Max. diameter 6.5 mm

Fig. 4

3° - rotate the control box vertically
4° - slightly extract the electronic board



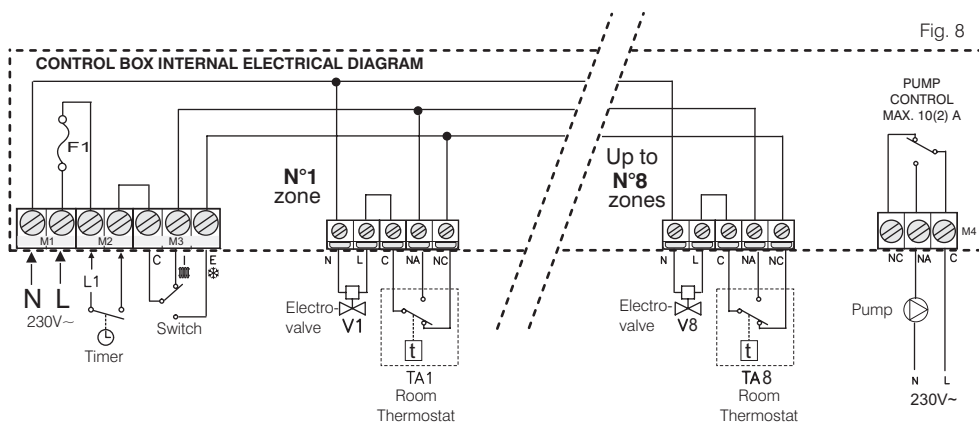
Deactivated

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2.4 - ELECTRICAL CONNECTIONS OF THE CONTROL BOX

⚠ DEACTIVATE THE 230 V~ SUPPLY VOLTAGE

- Connect the control box to the 230V~ mains supply via a disconnecting switch in compliance with the regulations in force.
- Carry out the electrical connections as indicated in the following electrical diagram (fig. 8) according to the model: 4, 6 or 8 zones (see also the example of installation diagram in the following page - fig. 9).



DESCRIPTION OF ELECTRICAL CONNECTIONS:

- **Terminals M1** = input for N - L 230V~ mains supply connection
- **Terminals M2** = input for time switch connection (optional) for timing the thermostat and electro valves switch-on and off (by default the switch-on is ensured via a jumper)
- **Terminals M3** = input for the connection of a switch for forcing the HEATING or COOLING (by default via jumper) modes
- **Terminals TA1 ÷ TA8** = inputs for the connection of up to 8 room thermostats (depending on the model)
- **Terminals V1 ÷ V8** = outputs for the connection of up to 8 zone electro-valves (depending on the model)
- **Terminals M4** = output for the connection of the pump control.

 Fuse F1 (supply voltage) = T 2A/250V~ delayed

230 V~ 2-WIRE ELECTRO-VALVES



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