

WMT 10

PANNELLO COMANDI ELETTRONICO PER
VENTILCONVETTORI
INSTALLAZIONE A PARETE

ELECTRONIC CONTROL PANEL FOR FAN COILS
WALL-MOUNTED INSTALLATION

PANNEAU DE COMMANDE ELECTRONIQUE POUR
VENTILO-CONVECTEURS
INSTALLATION MURALE

ELEKTRONISCHE BEDIENTAFEL FÜR
GEBLÄSEKONVEKTOREN
ZUR WANDMONTAGE

TABLERO DE MANDOS ELECTRÓNICO PARA FAN COILS
INSTALACIÓN DE PARED



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CHARACTERISTICS

Congratulations on your purchase of the Aermec WMT10 control panel with thermostat. Made of materials of superior quality in strict compliance with the safety regulations, the WMT10 is easy to use and will have a long life.

The **WMT10** regulating thermostat is a control panel for fan coils, to be mounted on the wall.

Controls the operating functions of the fan coil according to the set mode. The panel must be wall-mounted; it is used in systems with 4 tubes, 2 tubes and 2 tubes with resistance, with the possibility of connecting two On-Off valves to shut off the water feeding the coils.

The panel is electrically protected by an internal fuse.

The ventilation mode operation is chosen in the installation phase with Jumper.

Each panel can directly control a single fan coil.

The control panel only consists of mains voltage (230V) electrical circuits; all the inputs must therefore be properly insulated for this voltage.

The valve servo controls must also be suitable for 230V.

WMT10 must only be installed by expert personnel.

Disconnect the power supply before beginning any installation or maintenance operation. Risk of electrocution if live components are touched.

CONNECTION CABLES SPECIFICATIONS

Use **H05V-K** or **N07V-K** type cables with **300/500 V** with insulation, piped or ducted.

Use cables with double **H05W-F** type insulation for installations with cable in sight.

FUNCTIONS

The thermostat maintains the temperature set for the room.

The **WMT10** control panel has the following functions:

- cursor to choose the Cooling functioning mode, Off or Heating;
- manual season change;
- manual choice of the ventilation speed;
- desired room temperature selection (+10°C÷30°C)
- operation of systems with 2 pipes
- operation of systems with 4 pipes
- operation of systems with 2 pipes (cooling) + electric heater (heating)
- thermostat-controlled ventilation;
- continuous ventilation;
- continuous ventilation in Cooling mode and thermostat-controlled ventilation in Heating mode;
- when it switches on, it starts the fan coil keeping the settings that were active before the previous switch-off;
- after a power failure, the fan coil restarts keeping the settings that were active before the switch-off;
- air temperature probe incorporated in the panel;

MANUAL CHANGE OVER

Manual selection of the desired functioning mode (Cooling or Heating) with the cursor.

For correct operation, before selecting a functioning mode, check that the water circulating in the system is at a suitable temperature for the desired functioning mode.

In case of heating with electric heater, the fan coil must be electrically powered.

TECHNICAL SPECIFICATIONS:

Power supply: 230V (± 10%)

Input power: 1.5VA

Adjustable temperature range: 10°C - 30°C

Differential: 1°C

Ambient working conditions: 0°C ÷ 60°C with relative humidity 10% ÷ 90%, without condensation.

Ambient storage conditions: -18°C ÷ 60°C with relative humidity 10% ÷ 90%, without condensation.

Material: ABS UL94 V0

Colour: RAL9016

Complies with:

Low Voltage directives 73/23 (EN 60730-1, EN 60730-2-9, EN 60335-1);

Electromagnetic compatibility 89/336 (EN 61000-4-1, EN 55011, 55022, 55014);

ITS UL783.

VENTILATION

Three-speed ventilation check, can be selected manually.

The ventilation mode is set in the installation phase, by operating the circuit card mobile Jumper (see the image).

CONTINUOUS VENTILATION

The ventilation continues to work even if the set temperature is reached, so the temperature is therefore checked by opening and closing the water valve(s) fitted in the system.

Do not use this setting in systems without water shut-off valves, as ventilation will be continuous, and not controlled by the thermostat.

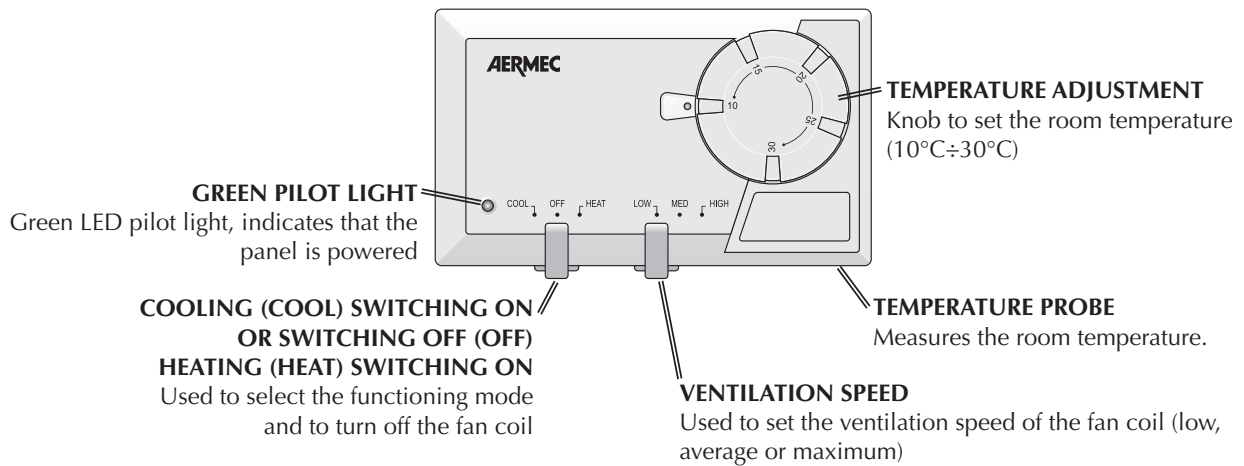
THERMOSTAT-CONTROLLED VENTILATION

The ventilation switches off automatically when the set temperature is reached.

CONTINUOUS VENTILATION IN COOLING MODE AND THERMOSTAT-CONTROLLED VENTILATION IN HEATING MODE

Ventilation in cooling functioning mode is adjusted differently from ventilation in the heating mode:

- Cooling (Continuous Ventilation)
- Heating (Thermostat-controlled Ventilation)

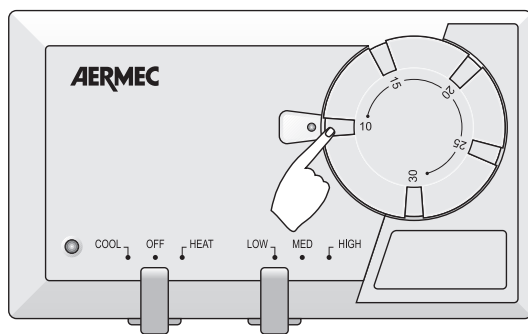
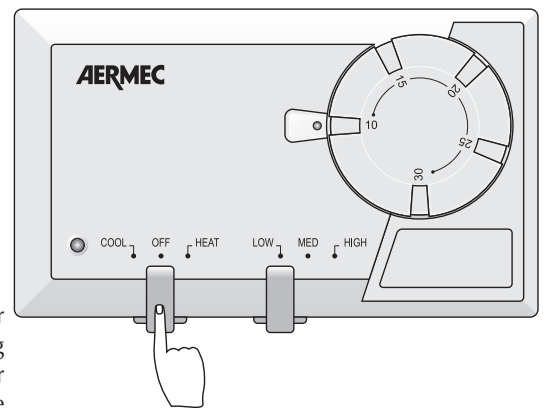


SWITCHING ON AND OFF COOLING - HEATING

The cursor in central position turns off the fan coil, to turn on the fan coil in heating mode, move the cursor to the right, to turn on the fan coil in cooling mode, move the cursor to the left,

- COOL** Cooling
- OFF** Off
- HEAT** Heating

For correct operation, before turning on the fan coil, check that the water circulating in the system is at a suitable temperature for the desired functioning mode. In particular, check that, in winter functioning, the heat pump or boiler is switched on, and in summer functioning, the chiller is switched on. In case of heating with electric heater, the fan coil must be electrically powered. The WMT10 can also be connected to fan coils for only sensitive cooling.



TEMPERATURE ADJUSTMENT

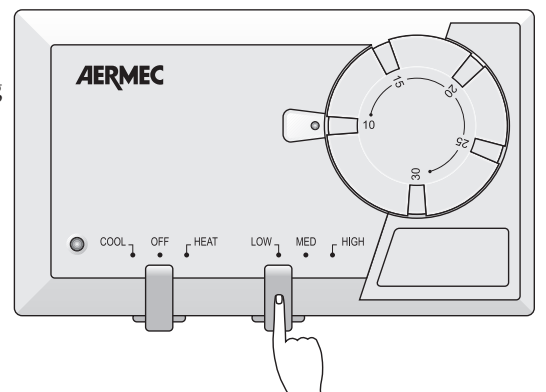
Select the desired temperature with the knob; to increase it turn the knob anticlockwise, to decrease it turn it clockwise. The values indicating the temperature [°C] are shown in the knob.

The water in the system must be at a suitable temperature.

VENTILATION SPEED

It is possible to choose among three ventilation speeds manually by moving the cursor:

- LOW** Minimum speed
- MED** Medium speed
- HIGH** Maximum speed



INSTALLATION

WARNING: check that the power supply is disconnected before performing operations on the unit.

WARNING: the electrical connections, the installation of the fan coils and relevant accessories should be performed by a technician who has the necessary technical and professional expertise to install, modify, extend and maintain systems, and who is able to check the systems for the purposes of safety and correct operation.

In the specific case of electrical connections, the following checks are required:

- Measurement of the electrical system insulation strength
- Continuity test of the protection wires.

The essential instructions for the proper installation of the equipment are shown here.

The completion of all the operations in accordance with the specific requirements is however left to the experience of the installation engineer.

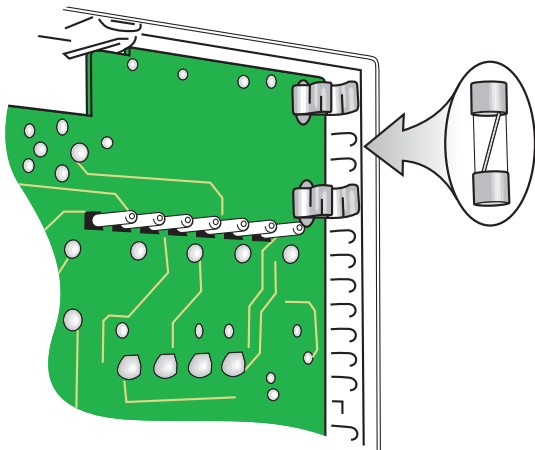
The command device is made up of an electronic control panel, to be secured to the wall.

Avoid installing the control panel in places directly exposed to sun rays, draughts, heat sources and fan coil flow. Install the unit at about 150 cm from the floor, on an internal, air-conditioned wall. Secure the panel to the wall using expansion plugs.

Connect the wires to the control board as indicated in the wiring diagrams.

To remove the panel:

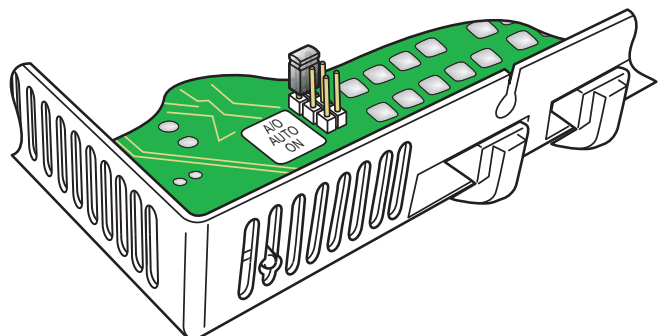
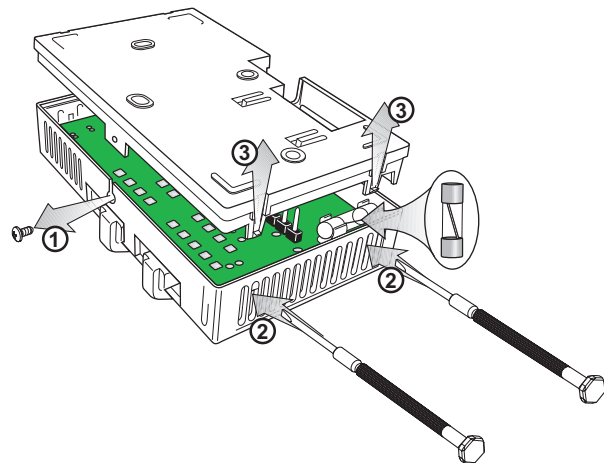
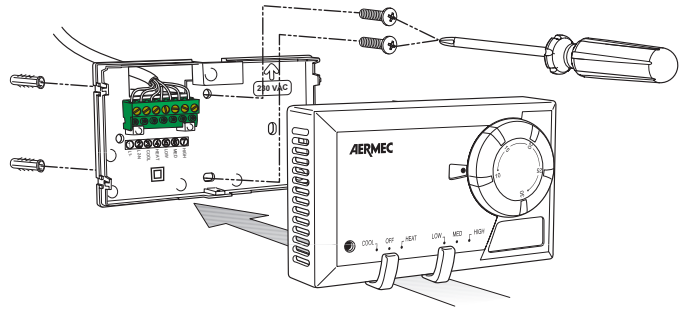
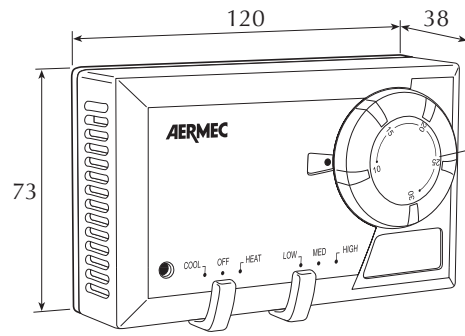
- 1) remove the locking screw;
- 2) press down on the points indicated in the figure with a small screwdriver, until the bottom of the thermostat is released from the cover;
- 3) remove the cover.



The panel is electrically protected by an internal fuse.
(Fuse: 6,3A - 250V)




The ventilation mode is set with the Jumper on the circuit card in the panel:

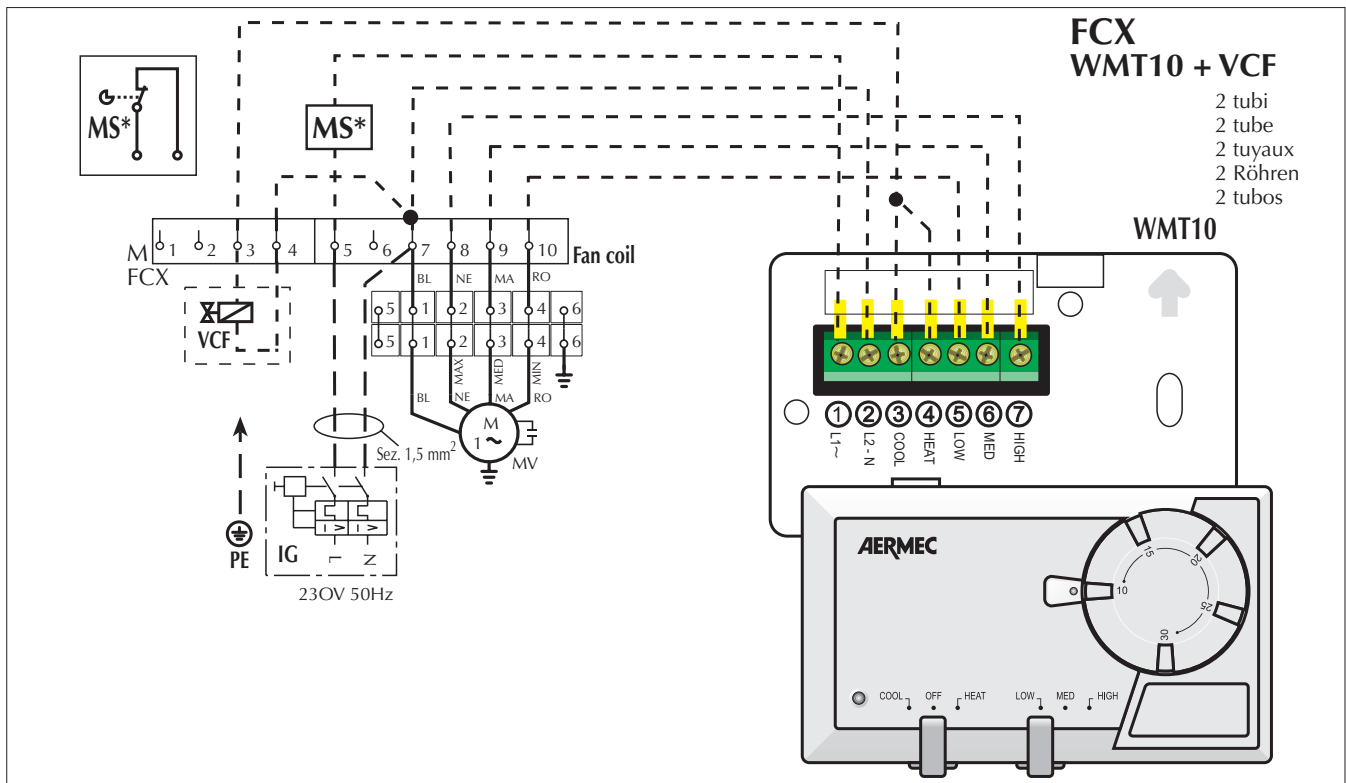
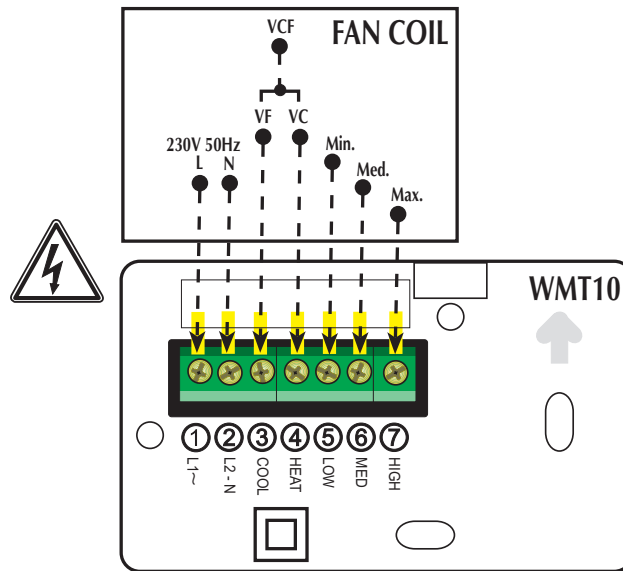
- A/O** Continuous Ventilation in Cooling
Thermostat-controlled Ventilation in Heating
- AUTO** Thermostat-controlled Ventilation in both Cooling and Heating
- ON** Continuous Ventilation in both Cooling and Heating

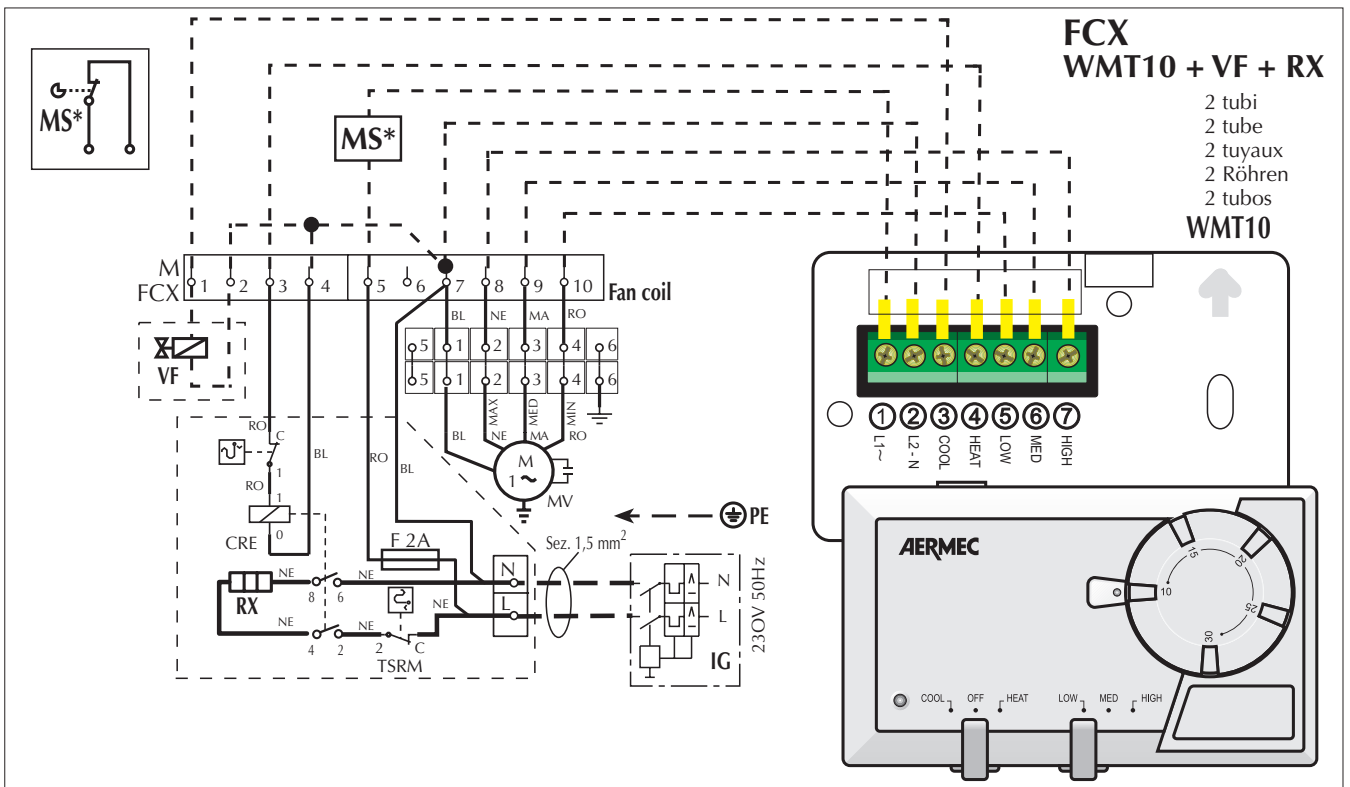
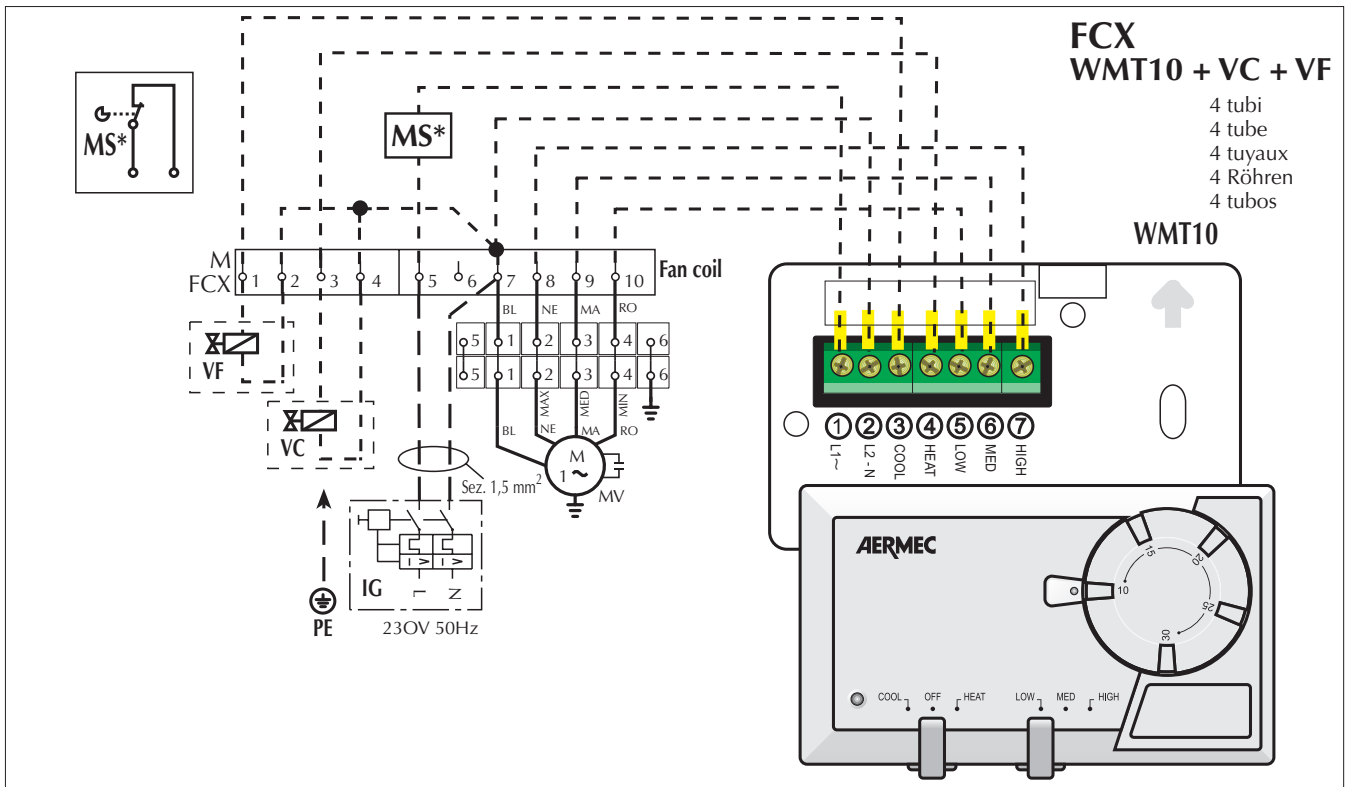


LEGENDA • READING KEY • LEGENDE • LEGENDE • LEYENDA

- IG** = Interruttore generale • Main switch
Interupteur général • Hauptschalter • Interruptor general
- M** = Morsetiera • Terminal board
Boitier • Klemmleiste • Caja de conexiones
- MS** = Microinterruttore • Microswitch
Microinterrupteur • Mikroschalter • Microinterruptor
- MV** = Motore ventilatore • Fan motor • Moteur ventilateur
Ventilatoromotor • Motor ventilador
- PE** = Collegamento di terra • Earth connection
Mise à terre • Erdanschluss • Toma de tierra
- RX** = Resistenza elettrica • Electric heater
Résistance électrique • El. Heizregister • Resistencia eléctrica
- VC** = Valvola a tre vie (caldo) • Three way valves (heat)
Vanne à trois voies (chaud) • Dreiwegeventil (Heinz)
Válvula agua de 3 vías (calor)
- VCF** = Valvola a tre vie (caldo/freddo) • Three way valves (heat/cool)
Vanne à trois voies (chaud/froid) • Dreiwegeventil (Heinz/Kühl)
Válvula agua de 3 vías (calor/frío)

- VF** = Valvola a tre vie (freddo) • Three way valves (cool)
Vanne à trois voies (froid) • Dreiwegeventil (Kühl)
Válvula agua de 3 vías (frío)
-  = Componenti forniti optional • Optional components
Composants en option • Optionsteile
Componentes opcionales facilitados
-  = Collegamenti da eseguire in loco
On-site wiring
Raccordements à effectuer in situ
Vor Ort auszuführende Anschlüsse
Conexiones que deben realizarse in situ
-  = Componenti non forniti
Components not supplied
Composants non fournis
Nicht gelieferte Komponenten
Componentes no suministrados





Gli schemi elettrici sono soggetti ad un continuo aggiornamento, è obbligatorio quindi fare riferimento a quelli a bordo macchina. All wiring diagrams are constantly updated. Please refer to the ones supplied with the unit. Nos schémas électriques étant constamment mis à jour, il faut absolument se référer à ceux fournis à bord de nos appareils. Die Schaltpläne werden ständig aktualisiert, deswegen muss man sich stets auf das mit dem Gerät gelieferte Schaltschema beziehen. El cableado de las máquinas es sometido a actualizaciones constantes. Por favor, para cada unidad hagan referencia a los esquemas suministrados con la misma.