

## WMT 05

PANNELLO COMANDI PER VENTILCONVETTORI  
INSTALLAZIONE A PARETE

CONTROL PANEL FOR FAN COILS  
WALL-MOUNTED INSTALLATION

PANNEAU DE COMMANDE POUR VENTILLO-CONVECTEURS  
INSTALLATION MURALE

BEDIENTAFEL FÜR GEBLÄSEKONVEKTOREN  
ZUR WANDMONTAGE

TABLERO DE MANDOS PARA FAN COILS  
INSTALACIÓN DE PARED



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**Congratulations on your purchase of the Aermec WMT05 control panel with thermostat. Made with materials of superior quality, in strict compliance with safety regulations, "WMT05" is easy to use and will have a long life.**

The **WMT05** regulating thermostat is a control panel for fan coils, to be mounted on the wall.

It controls the operating functions of the fan coil according to the set mode. The panel must be wall-mounted; it is used on 2-tube systems.

**Each control panel can 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.**

**WMT05 must only be installed by specialised personnel.**

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

**It is obligatory to install the panel on a flat, non-conductive and non-inflammable wall, in closed rooms with no dampness.**

**After the installation, the control panel is ready to work, but the exact intervention point will be reached after about 2 hours of operation.**

#### 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 WMT05 control panel is equipped with the following functions:

- On-Off switch
- cursor for choosing Heating / Cooling mode (manual season changeover)
- cursor for choosing the ventilation speed (high, medium or low);
- temperature selector (+5°C - 30°C)
- in the event of a power supply interruption, start up the fan coil, maintaining the settings that were active before the previous switch-off;
- internal environment probe;

#### TECHNICAL SPECIFICATIONS:

Power supply: 230V (± 10%)

Input power: 1.5VA

Adjustable temperature range: 5°C - 30°C

Dead band: 2°C

Environmental working conditions: 0°C - 60°C with relative humidity max 95%, without condensation.

Environmental storage conditions: -18°C ÷ 60°C with relative humidity 5% - 95%, without condensation.

Material: ABS

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 with an efficiency level of 1C);

ITS UL783.

VDE0875

#### CHANGEOVER

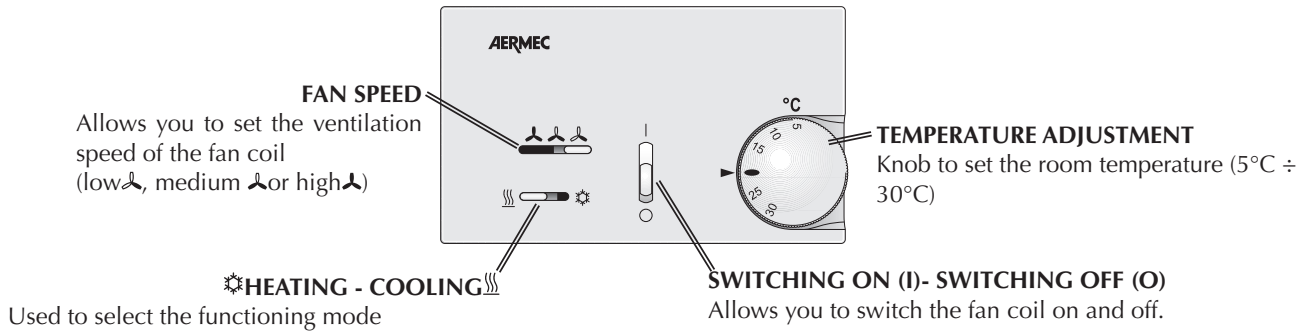
The cursor for choosing Hot or Cold mode allows the user to choose the fan coil operation on Hot or Cold operation.

#### VENTILATION

Ventilation control is at three speeds.

#### Ventilation mode

With the fan set at a determined ventilation speed, this switches off automatically when the set temperature is reached.



**SWITCHING ON AND OFF**

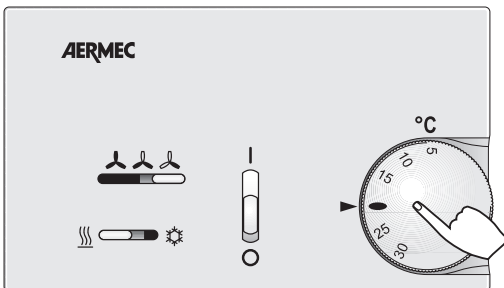
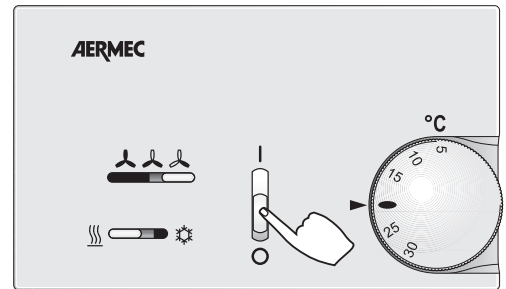
The switch I/O switches the fan coil on and off

- I On
- O Off

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.

The WMT05 can also be connected to fan coils for only sensitive cooling.



**TEMPERATURE ADJUSTMENT**

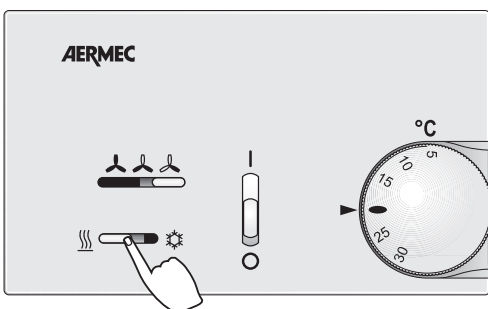
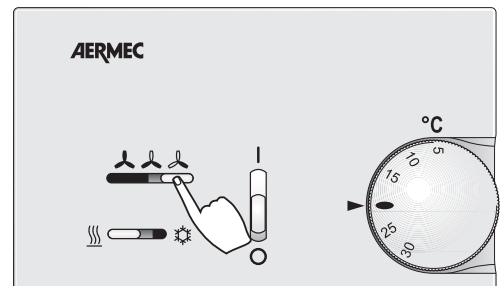
Select the desired temperature with the knob; to increase it turn the knob anticlockwise, to decrease it turn it clockwise. The values indicating the temperature [°C] are shown on the knob.

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

**VENTILATION SPEED**

It is possible to manually choose from various ventilation speeds by moving the cursor:

- Minimum speed:
- Medium speed:
- Maximum speed:



**Working mode**

It is possible to manually choose the heating or cooling ventilation mode:

- Heating:
- Cooling:

## 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.

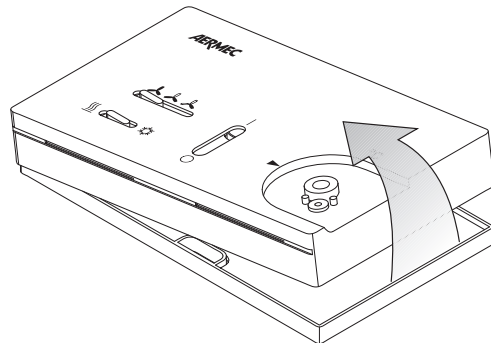
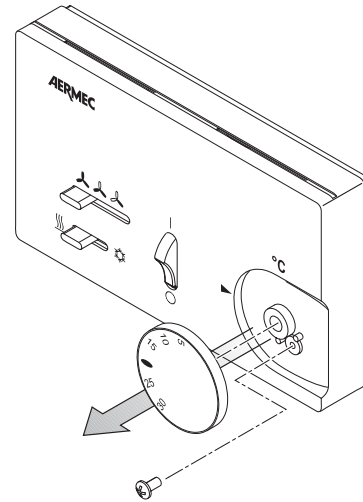
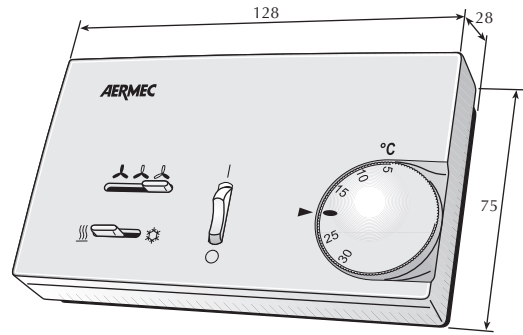
The command device is made up of an electronic control panel, to be secured to the wall.

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

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



### To remove the panel:

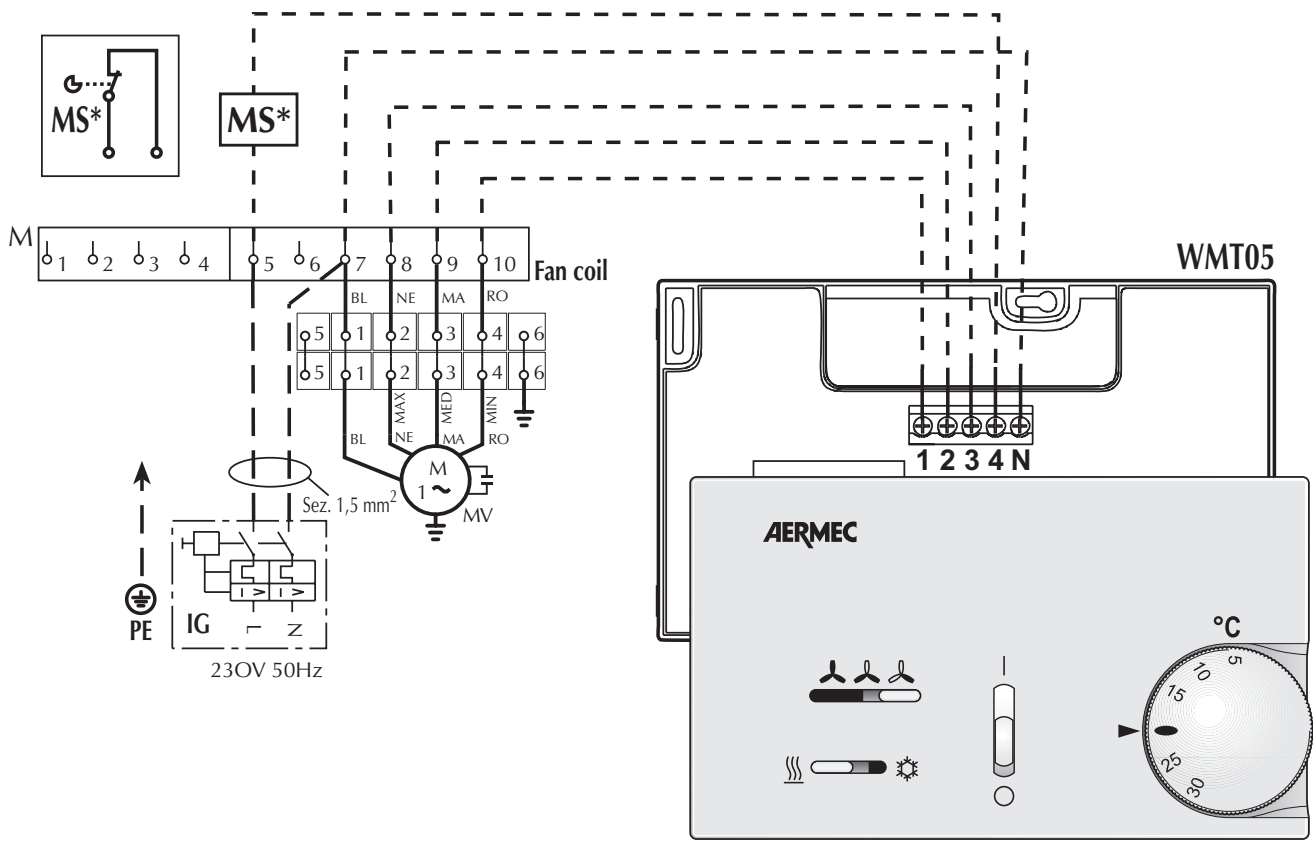
- remove the knob;
- remove the locking screw;
- raise the cover from the knob side, as shown in the figure, until the base of the thermostat is released from the cover;
- remove the cover.



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 (Solo per i modelli che ne sono provvisti)  
Microswitch (Only for the appropriate models)  
Microinterrupteur (Uniquement pour les modèles qui en sont équipés)  
Mikroschalter (Nur bei Modellen, die damit ausgestattet sind.)  
Microinterruptor (Sólo para los modelos que lo incluyen)
- 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) • Dreibegeventil (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) • Dreibegeventil (Heinz/Kühl)  
Válvula agua de 3 vías (calor/frío)
- VF** = Valvola a tre vie (freddo) • Three way valves (cool)  
Vanne à trois voies (froid) • Dreibegeventil (Kühl)  
Válvula agua de 3 vías (frío)

-  = Componenti forniti optional • Optional components  
Composants en option • Optionsteile  
Componentes opcionales facilitados
- - - = Collegamenti da eseguirsi 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.