

Installation Rules



- The apparatus must not be installed with the control box located topside.
- The heater must not be located immediately below a socket outlet or switch.
- Don't mount the radiator with the control box touching the floor or the wall.
- In order to avoid a hazard for very young children, this appliance should be installed so that the lowest heating rail is at least 600mm above the floor.
- The electronic thermostat should be connected only to 230 V AC 50Hz. the conventional colours should be respected if no plug is present.

Brown	Line Wire
Blue or grey	Neutral Wire
Black	Fil-Pilote Wire (only class II)
Yellow - Green	Earth (only class I)

- An all-pole disconnection from the supply is required, incorporated in the fixed wiring. Switches intended to ensure all-pole disconnection must be directly connected with the supply terminals and must have a contacts distance of at least 3 mm in each pole.
- Protect the electrical line with a **high sensitivity differential device**.
- The electronic thermostat is a class I or II apparatus and it is protected from water contact. In the bathroom it may be mounted in the zone 3 (see figure 1):making it impossible to be touched by person using the bath or shower.
- The electrical cable is meant to be connected to electrical system through a connection box without an electrical plug (restriction valid for model without plugs). The connection box or socket-outlet must be at least 25 cm from the floor.

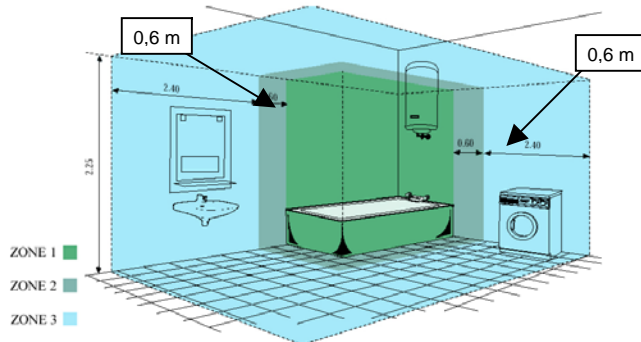


Figure 1: Classification of the Bathroom Zones

SAFETY INFORMATION

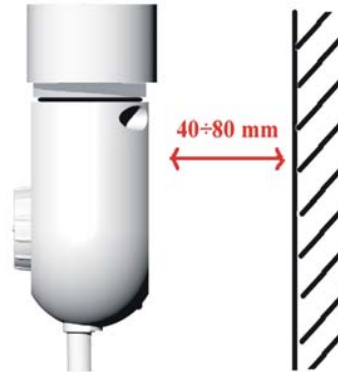


Weather installing or removing the regulator verify that the **power supply is switched off**.



- Do not supply the thermostat until the heating element is connected and the box is completely attached and locked in place.

Installation of towel rail

The towel rail is mounted against the wall, using the special stirrups. The distance of thermostat from the wall must be a value from 40mm to 80mm.



THERMOSTAT USE

The appliance has two knobs, as illustrated in figure 2. To turn the appliance ON/OFF position **knob 2** to  ,  or OFF symbols, when the Regulator is powered i.e. heating element – ON, the LED is Red, when the element is not powered, the LED is GREEN. There are four operating modes: Comfort mode, Night reduction, Antifreeze mode and Fil-Pilote mode (class II only).

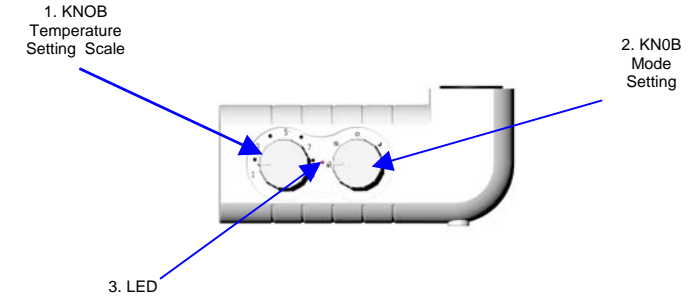



Figure 2 : Electronic thermostat



Comfort Operation Mode

This operating mode is use to heat the ambient temperature.

1. Turn **Knob 2** to  symbol to ON the appliance.
2. Turn **knob 1** to the desired temperature. As illustrated on the scale (See figure 3). The temperature ranges between 15°C to 30°C; number 1 correspond to about 7°C setting up to the end of the regulation scale, at the very end of the scale the temperature bulb symbol for (100% max power), at this point it is possible to maintain the maximum power continuously. The scale of the knob 1 isn't linear, it's an expanded scale. Use this scale to set the desirable temperature.



knob 1



knob 2

Figure 3 :Temperature Scale knob 1 and Mode settings knob2




This scale is reliable only for heaters which are located in places with standard conditions. It is normal if the thermostat setting isn't identical in order to obtain the same temperature in two different rooms (influence of environment).



Fil-Pilote operating Mode (class II only)

The apparatus may be regulated using a main fil-pilote standard programmer.




1. Turn **knob 2** in  position.
2. Turn the **knob 1** to choose the desired temperature. Around knob 1 there are the numbers of the scale. Having a temperature Ranging from 7°C to 30°C. As illustrates in figure 3. Use this scale to set the desirable temperature. **Note:-** From fil-pilote comfort Mode must be set in order to access the 100% constantly ON function.
3. The operating mode will be selected by your remote Fil-Pilote central according to your specifications .
4. The comfort function mode is selected if remote Fil-Pilote central is not installed.

Comfort	Temperature set
Night Reduction	Temperature set minus 3.5°C
Antifreeze	Safe temperature 7°C to avoid freezing
Stop	Regulator stopped
ECO1	Temperature set minus 1°C
ECO2	Temperature set minus 2°C



"Night reduction" Mode


Use this mode to reduces the ambient temperature at night. With **Knob 1** position on the desired temperature setting the thermostat will work to set this ambient temperature minus 3.5°C.

1. Turn **Knob 2** to the Night Reduction Mode  symbol.
2. Turn **knob 1** to select the desired temperature.



"Antifreeze" Mode

Select this operating mode to maintain an ambient temperature about 7°C.

1. To select the anti-freeze mode turn **Knob 1** anti-clockwise to minimum position or turn **knob 2** to the anti-freeze symbol 

Technical Characteristics Of Electronic Thermostat Regulator

Power Supply	230V ±10% AC 50 Hz
Max Heating Element Power	2000W
Insulation class	Class I or II
Water Protection Class	IPX4
Box Protection Impacts	IK04
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 70°C
Operating Humidity	0 – 85% without condensation
Regulation	Proportional and Integral
Temperature Setting	Analogue with Knob
Setting Temperature Range	7°, 15 – 30°C
Temperature Resolution	1/10 °C

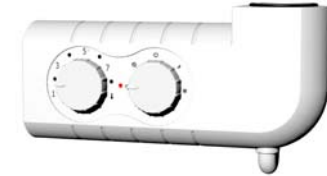
Guarantee

Electronic element is guaranteed two years for any manufacturing defects, from the purchase date. In the event of modifications, spare parts are guaranteed for one year. The guarantee is valid only with the dated sales receipt.



Installation must comply to all national safety regulations and laws in force in the country where the product is installed.

Electronic Thermostat EXAMPLE OF USER MANUAL



IMPORTANT



Read the instructions carefully before you use the electronic thermostat



- This appliance is intended only for drying textiles washed in water. Any other use is forbidden.
- Before connecting the power supply, verify that the thermostat is locked firmly in place to the towel heater.
- Switch off the mains before any installation, de-installation or maintenance operation on the thermostat.
- Don't cut the power supply cable to switch the apparatus off.
- Don't use heater without thermostat with safety thermal fuse.
- The electrical cable cannot be repaired. If it is damaged the complete product must be replaced.
- When the pilot wire (black wire) is not connected, safety regulations requires that it be insulated and not connected to the EARTH.
- If the led fast blinks red, there is a temperature sensor fault: please contact the manufacturer.
- The nominal voltage of the thermostat must be the same one of the network.
- The socket-outlet (models with plugs only) and the power lines must be dimensioned in order to support the necessary load.
- The socket-outlet must be compatible with the plug of the thermostat (models with plug only).
- The socket or the connection box must have grounding according to the standard in force (Class I models only).
- Avoid any contact with chemical products or alcohol including the liquid inside the radiator.