

## 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.
- The electronic thermostat should be connected only to 230 V AC 50Hz. Respect the conventional colours: 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 class II only). The connection box or socket-outlet must be at least 25 cm from the floor.

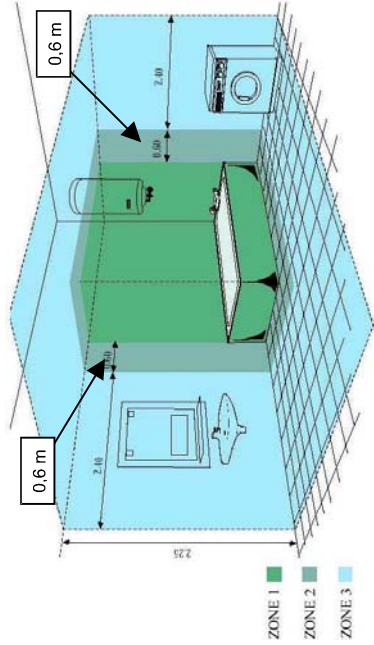


Figure 1: Classification of the Bathroom Zones

## **SAFETY INFORMATION**

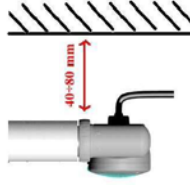
- Weather installing or removing the regulator verify that the **power supply is switched off**.
- Do not insert metallic object or finger inside of rapid attach.



- Before switching on the power ensure that the rapid attach is closed and locked (index on closed padlock symbol).

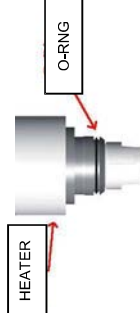
## Installation of towel rail

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.

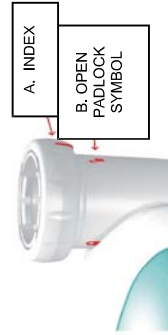


## Installation of Regulator to Quick Connect

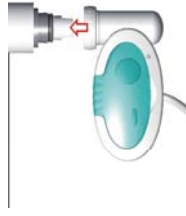
1. Be sure that the O-RING of the heater's connection is the correct position and it isn't damaged (otherwise replace it).



2. Before inserting the plug in the resistance, bring the index A of the ring above the open padlock symbol B.

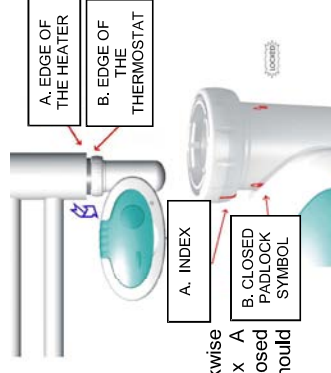


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3. Insert the plug into the heating element with moderate pressure, if necessary line up the contacts rotating to control.

4. Line up the control with the towel heater.



5. Insert the control until edge A of the heater is against the higher part B of the thermostat.

6. Rotate the ring in clockwise direction, until the index A arrives above the closed padlock symbol B; you should hear a "click".

## THERMOSTAT USE

The appliance has two buttons and a knob, as shown in figure 2. To turn the appliance ON/OFF press button 3: when Regulator is ON, the LED is red when the element is powered and green when no power is applied. There are four operating modes: normal mode, forced march (to dry clothes), antifreeze mode and Fil-Pilote mode (class II only).

### Normal Mode

This operating mode is used to heat the ambient temperature.

1. Press button 3 to power the appliance
2. Turn knob 1 to the desired temperature. As illustrated on the scale (See figure 3). The temperature ranges between 7°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 there is the temperature bulb symbol for (100% max power), at this point it is possible to maintain the maximum temperature continuously. The scale of the knob 1 isn't linear, it's an expanded scale. Use this scale to set the desirable temperature.

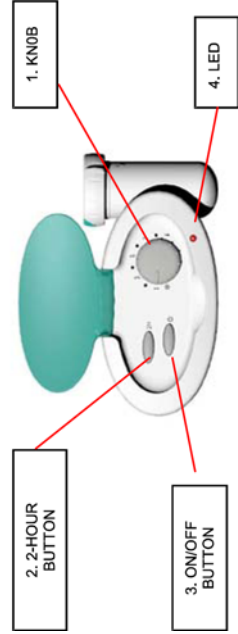


Figure 2 : Electronic thermostat

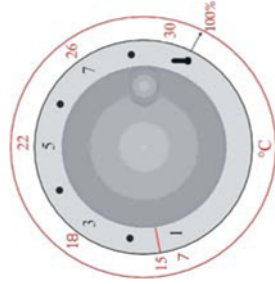


Figure 3 : Scale of the knob 1 of Regulator

This scale is reliable only for heater which is placed in place with standard conditions. It is normal that the thermostat setting isn't be identical in order to obtain the same temperature in two different rooms (influence of environment).



#### **Forced March Mode**

Select this operating mode to power on the radiator continually for two hours: select this mode if you want to dry clothes.

1. Press button 2 : the led will start blinking slowly.
2. The system goes to heating mode for two hours, you may interrupt the cycle at any time by pushing button 2 again.

#### **Antifreeze Mode**

Select this operating mode to maintain ambient temperature of above 7°C.

1. Press button 3 to power on the appliance.
2. To activate the antifreeze function, turn the potentiometer 1 counter - clockwise to minimum position. The LED remains green when no power is supplied to the heater, but changes to red when the heater is powered.

#### **Fil-Pilote Mode (class II only)**

The apparatus may be regulated using a main Fil-Pilote standard programmer.

1. Press button 3 to power ON the appliance. Make sure that the knob 1 isn't set to antifreeze mode, forced march mode (2 Hrs) or in the 100% constantly On function.
- 2.

The signals must be considered like in Table 1:

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

Table 1

#### **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	IK09
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 70°C
Operating Humidity	0 – 85% without condensation
Regulation	Proportional and Integral
Temperature Setting	Analogical with Knob
Setting Temperature Range	7°C 15 – 30°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.**

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## Electronic Thermostat EXAMPLE OF USER MANUAL



### **IMPORTANT**

Read the instructions carefully before you use the electronic thermostat



- Regulator for the control of electric towel warmers used for drying items of clothing washed in water, and room heating. Any other use is forbidden.
- Always check that the master switch has been turned off before starting any installation or maintenance operations.
- Do not use the device before it has been properly and completely installed.
- Do not turn on before attaching the heating element recommended by the manufacturer and checking that the O-ring is intact and properly positioned (see paragraph on installation).
- Do not cut the power lead to stop regulation.
- Do not use the regulator with heating elements if there is no safety device.
- If the power lead is damaged the device must be replaced.
- Nominal voltage for the regulator must be the same as that on the mains (230V AC ±10%).
- The socket (only for devices with plugs) and electricity supply must be adequate to support the required power.
- The socket must be compatible with the regulator plug (only for devices with plugs).
- Check that the electricity supply system is provided with a differential omni-pole safety cut-out connected directly to the socket or connection box involved.
- Class I devices (yellow-green wire or earthed plug) must be connected exclusively to sockets or connector blocks with earthed contacts to current standards.
- Class II devices may have a black wire for a pilot wire remote control. If it is not used it must be insulated and must never be connected to earth.
- Avoid contact with any chemical product or alcohol, including the liquid in the radiator.
- The appliance is not for use by people (including children) with reduced physical sensorial or mental capacities, or with no experience or knowledge of the appliance, unless they are accompanied by a person or guardian responsible for their safety or have been able to read the instructions for its use.
- Always be in attendance to make sure children do not play with the appliance.
- Install the towel warmer so that the bottom part is at least 60 cm from the floor/forbidden.