

INSTALLATION AND
USER'S INSTRUCTIONS

Kalirel

**Thermo-dynamic
fluid-filled electric
radiators**

with electronic thermostat

CALODIA & HAWAI

**ALUMINIUM
RADIATOR RANGES
WITH "CLASSIC"
STYLE THERMOSTAT.**

Location

Installation

Connection

Safety

Use

You have just acquired one or several of our electric radiators. Thank you for having chosen Kalirel and for your trust in our products. For your comfort and safety, we invite you to read the manual instructions and the advices carefully.

If you have any technical questions and requirements
www.kalirel.com - www.kalirel.co.uk

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CALODIA & HAWAI

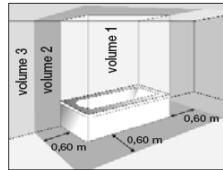
ELECTRIC RADIATOR INSTALLATION INSTRUCTIONS.


■ ELECTRICAL INSTALLATION

- 1- The electric installation must be in conformity with the standards and the code of practice currently used in the country where the product is going to be installed.
- 2- The radiator electrical connection must be carried out in a standardized junction box. In kitchen or bathrooms, the connection box should be installed 25 cm above the floor.
- 3- The radiator must be supplied with 230 V- 50 Hz single-phase and neutral. Other power supplies cannot be used the one previously specified.
- 4- Each radiator must be supplied with a dedicated wire and protected with a 10 amp circuit breaker for devices from 500 W to 2000 W of power.

■ INSTALLATION RULES

ELECTRIC RADIATORS IN THE WET ROOMS (kitchens, bathrooms...).



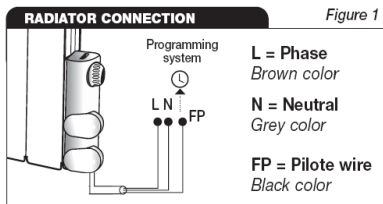
- This radiator is "class II" with double insulation . It is "IP24" therefore protected from splashed water.
- It can be installed in bathrooms volume 2 and 3 provided that no electric control unit can be touched by the people using the bath-tub or the shower.
- It must necessarily be connected to the electrical supply network in a standardized junction box without the using a socket-outlet. Earthing is prohibited.
- The circuits supplying the electrical devices in the wet rooms must necessarily be protected by a 30milli amp Residual Current Device for safe operation.



■ ELECTRICAL WIRING

- 1- The radiator is "class II" with dual insulation □.
- 2- The radiator is not equipped with an earth wire and it is strictly forbidden to connect it to the ground.
- 3- For thermostats equipped with a pilot wire to be connected to programming systems, it is essential to get a correct connection of the phase and neutral.

Colour code: (see picture 1) BROWN connection with the phase/ GREY connection with the neutral/BLACK connection with the pilot wire (if necessary).



- 4- If the *pilot wire* is not connected, the wire tip must be insulated.
- 5- ▲ The *pilot wire* direct connection to the power supply (phase, neutral or earth) will destroy the thermostat.

CAUTION: Before any installation or operation on the electrical circuit, please cut off the power supply with the circuit breaker or with the main circuit breaker and check if there is live wire.

■ STARTING

- 1- Check that the radiator is correctly supplied with electricity then test the various functions of the thermostat and set the temperature you want to get.
- 2- In case of faulty operation, please check that the radiator is properly supplied with electricity.
If the radiator is properly supplied and if it does not work correctly, please advise your installer or the manufacturer.

■ SAFETY INSTRUCTIONS

- 1- Do not dismount nor modify the radiator.
- 2- In order to avoid any risk of electrocution:
 - Do not take apart the electronic thermostat which has been assembled in the factory
 - Do not introduce a metallic object into the thermostat
 - The electrical cable integrated in the factory is not replaceable; delivered in a standard length it should not be extended, nor shortened.

DO NOT twist or jam the cable in the radiator wings behind it.

- If the cable is damaged, you risk very serious wounds that could lead to death. After its replacement, if the assembly was not carried out properly, you risk the same wounds.

If the electric cable is damaged, it must be replaced by the manufacturer, its after-sale service or by people of similar qualification, in order to avoid any danger.

WARNING: in order to avoid overheating, do not to cover the heating appliance. The heating appliance should not be placed just below a socket-outlet.

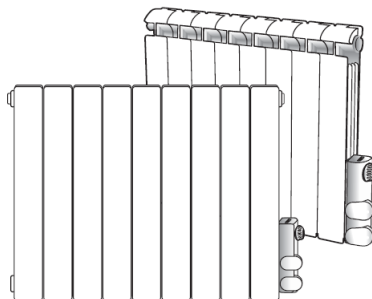
- 3- This heating appliance is filled with an accurate quantity of special fluid. Repairs requiring the opening of the fluid tank should only be carried out by the manufacturer or his after sale service which normally should be contacted in the event of fluid leakage.
- 4- When the heating appliance is to be sent to the dump, respect the regulations concerning the oil recycling.
Fluid residues will have to be recycled in a registered facility in conformity with the local, regional or national regulations.
- 5- In case of failure or possible repairs, contact your supplier.

RADIATOR INSTALLATION AND WALL MOUNTING

■ WHERE TO INSTALL THE RADIATOR

For the radiator *correct* operation and the users' *safety*:

- 1- The minimal dimensions indicated on *figure 2* will have to be respected
 - Height between the ground and the lower part of the radiator: minimum 100 mm, maximum 150 mm.
 - Distance between the radiator side and the wall angle: minimum 100 mm.
- 2- Avoid any obstacle around the radiator.
- 3- In the case of positioning a rack on the top of the radiator, you must respect the space of 100 mm between the radiator and the rack.
- 4- Do not install the radiator below one or several socket-outlets.
- 5- Do not put any object which can obstruct the air circulation (piece of furniture, armchair...) closer to 60 cm of the radiator front.



■ MOUNTING

- 1- Install the radiator to a wall with the Metal brackets according to the drilling dimensions *figure 3*.
- 2- Use plugs and screws adapted to the structure of the walls where the radiator will be mount.
 - For radiator installation, see *figure n° 4 - 5 - 6 - 7 - 8 - 9*.
 - Install the radiator horizontally and at level.

Figure 2

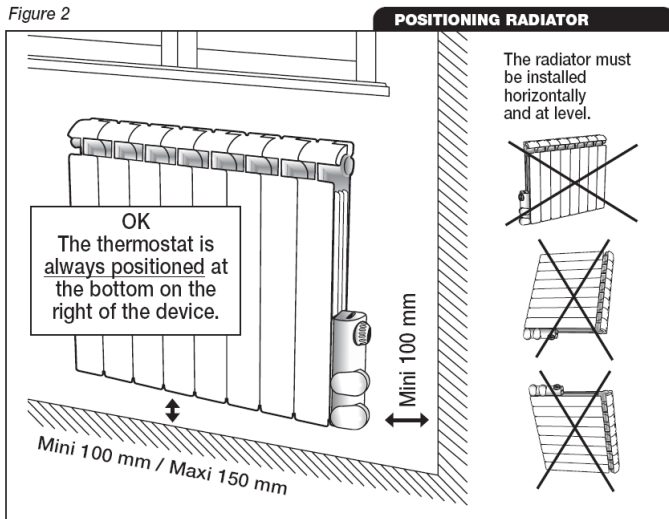
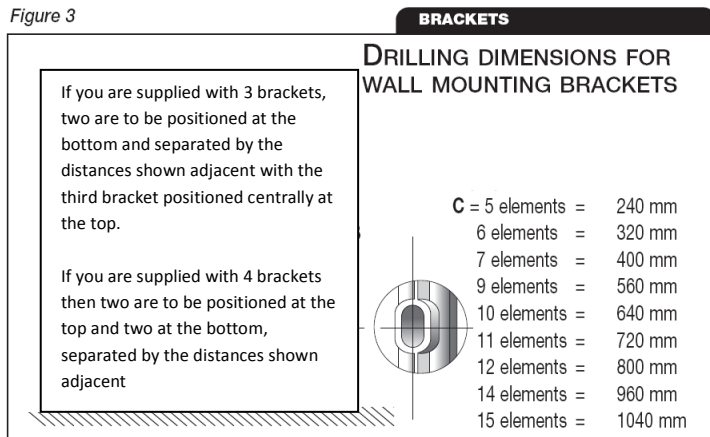


Figure 3



FOR YOUR SAFETY

In accordance with the regulations, the heating element inside the radiator is equipped with an integrated fuse. In case of overheating, the fuse melts and cuts the power supply.

The heating element must then be changed by the manufacturer or by a qualified professional electrician; please contact your supplier.

MAINTENANCE

- 1- For perfect functioning of your radiator and to ensure its durability, it is necessary to clean the radiator at least once a year:
 - Cut off the radiator power supply before carrying out its cleaning
 - Clean with a wet cloth and a non-aggressive soft product (liquid soap for example) on the radiator surface without forgetting the back and the lower part and wipe it with a dry rag; repeat the operation if necessary.
 - Do not use any product on the thermostat; wipe it with a dry rag.
- 2- If you must open the windows to give air, switch off the radiators by stopping the thermostat, you will save energy.

IMPORTANT

FUNCTIONING

Light “clicks” can sometimes be heard. They can be explained by the interlocking of certain types of thermostats.

Light “cracks” can punctually be heard. They can be explained by the expansion of various metals composing the radiator.

These phenomena are usual and inherent to this type of radiator; it is neither a breakdown nor a failure.

WARNING

- It is essential that you keep this user’s leaflet with the radiators it refers to, for any further consulting.
- If the device were to be resold or transferred to a third party, this user’s manual must be transferred with the radiator, so that the new user can know and follow the manual specifications. Failure to comply with the manual instructions will invalidate the manufacturer’s warranty.

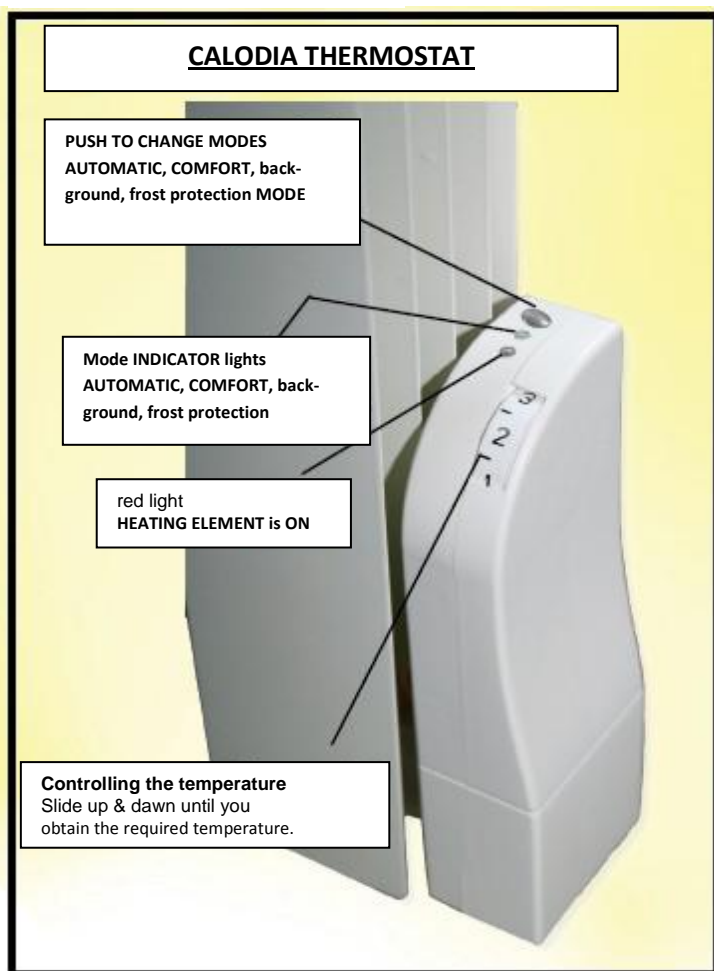
CLASSIC

ELECTRONIC THERMOSTATS

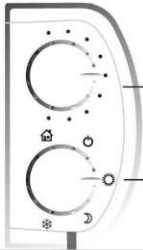
Thermostat with pilot wire

User instructions

1.1 Configuration



HAWAI THERMOSTAT



Controlling the temperature

Slide round until you obtain the required temperature.

Mode Selector Dial



Comfort Mode – operates at the temperature set on the dial.



Background Mode – operates at 3 ½ degrees lower than “comfort” setting.



Frost Protection Mode - maintains 7°C temperature.



Off



Auto Mode – This means that the radiator will operate in comfort or background modes at the times dictated by the external “pilot wire programmer”.




Indicator Light

Red – Comfort mode

Green – Background mode

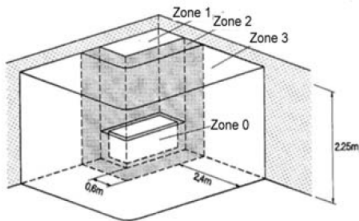
No Light - Off

2.1 Safety Instructions

 *The installation must comply with current norms and best trade practice in the country where it is fitted.*

The thermostat is class II and protected against water splashes. It can be installed in Zone 2 and 3 in bathrooms. Do not touch thermostat when in the shower or bath.

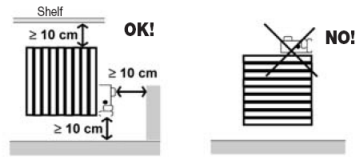
Install a calibrated earth-leak circuit breaker in accordance with current norms.




3.1 Installation

3.1.1 Where to install it

The thermostat must be installed in accordance with the diagram:







 *Do not cover the ventilation holes on the thermostat.*

3.1.2 Connecting to the electric power supply

Connect the thermostat's electric wires to the mains power supply using a junction box. Place the junction box at least 25cm above the floor.

Install the junction box behind the thermostat. Do not place any plug sockets or plugs between the two.

	Brown	Live	230 V 50 Hz
	Light blue/grey	Neutral	
	Black	Pilot wire	External control (see 6.1)

 *The power supply circuit must be sectioned. Sectioning must be done using a multi-polar device sectioning all the power supply terminals. The sectioning distance between the contacts of each terminal must be at least 3mm.*

3.1.3 Connecting to the external command for load shedding

Use the pilot wire. Connect the electric wire to the programming base unit fitted with a pilot wire.

 *If the pilot wire is not connected to a programming base unit then it must be insulated for safety reasons. In no event should it be connected to the earth.*

