

1. General information

These instructions are in connection to the following Multisec electric radiators and in particular to the models:

Height [mm]	Width [mm]	N° ELEMENTS	Electric Power [W]
ARDESIA ELECTRIC 3 COLUMNS			
600	338	7	400
	384	8	500
	568	12	750
	614	13	900
	706	15	1000
	798	17	1200
	982	21	1500
	1120	24	2000

2. Technical specifications

Multisec electric radiators with digital room thermostat:

- Class I Insulation
- Protection: IP 44
- Operating thermostat inside resistor calibrated to 90 - 100 °C
- Safety thermo fuses calibrated to 152° C

These radiators are filled in the factory with a clearly specified amount of special fluid ensuring heat transmission.

If any of these fluids leaks out, the radiator must be restored to optimum working conditions by the manufacturer, a person delegated by the manufacturer or a person with suitable qualifications, to ensure that proper operating and safety conditions are restored.

3. Information for the user

To clean painted radiators, use only a non-abrasive cloth dampened with water.

To clean the stainless steel radiators you can use a non-abrasive cloth dampened with water and methyl alcohol diluted to 50%. Do not use detergents or aggressive substances. Avoid any acidic or basic solutions, industrial chemicals or other substances, corrosive or abrasive substances (bleach, ammonia, soda...). Do not use abrasive sponges or cloths.

4. Information for the installer

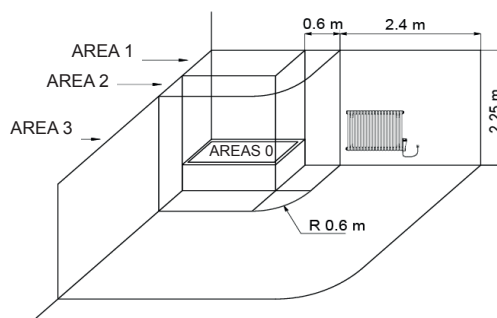
The product purchased is subject to the general rules of warranty so as written in the official MHS Radiators Catalogue in force. The warranty starts from the date of delivery and is void if the indication of the production lot is tampered with and / or removed. The warranty shall be effective after examination of the defects and their relevant causes. The material to be replaced or re-paired must be delivered at the retailer warehouse. The obligation to provide the warranty is subject to the conditions and requirements set out below. The radiator has not been damaged during shipping, handling or installation and any repairs and / or modifications have been carried out by a third party, if not expressly authorized. The material has been stored in good condition and protected from the weather before being installed. The installation of this product should be performed by qualified personnel and in accordance with these instructions and all system and safety rules both national and local. Do not place the radiators in rooms with the presence of chlorine vapours or corrosive fumes such as swimming pools, saunas, spa tubs.

5. Instructions for installation in bathrooms

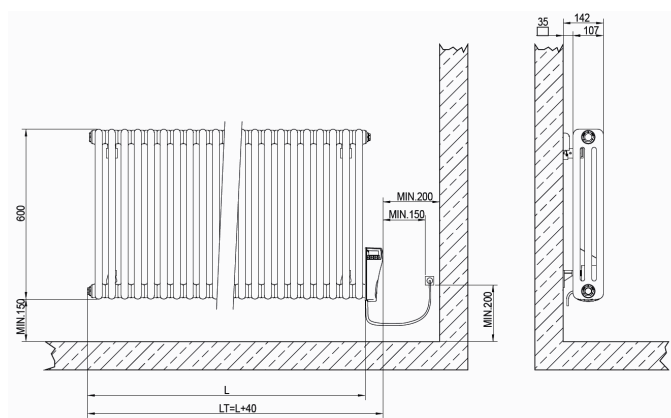
Since Multisec electrical radiators are equipped with a resistor with CLASS 1 insulation and have a minimum protection degree of IP44, they can be fitted in Zone 2 danger areas (see figure) provided that the power supply line is protected by a differential circuit breaker with $I_{dn} \leq 30$ mA according to CEI 64-8 standard.

In any case the power socket and differential circuit breaker must be located in zone 3, and none of the electrical controls must be reached by a person during bath or shower.

Install the radiator in such a way that the minimum distance between the floor and the thermostat is 250 mm and make sure that there are no obstacles within a minimum distance of 100 mm from the appliance.



Position the radiator so as to comply with the following minimum distances:



6. Wall mounting

The electric radiators must be mounted on the wall following the instructions provided in the packaging of fastening supports.

Fastening systems (screws + dowels) are suitable for compact walls or walls in hollow bricks. For different material walls it is the installer responsibility to adopt the suitable fastening systems.

When the radiator is in the proper position, the resistor is located at the bottom right.

The radiator must absolutely never be installed with the resistor aimed from top to bottom or in any direction other than pointing from the bottom to the top, as the heating element in the resistor itself would be irreversibly damaged during operation.

Never position the radiator in front of the power socket.

Make sure that the resistor never operates unless it is fully submerged.

7. Connecting up

All models of Multisec electric radiators are fitted with a power cable

complete with a pre-mounted Shuko plug. Before connecting up, make sure that the rated voltage of the appliance (230V) corresponds with the mains voltage, and also check that the wall socket is properly earthed in compliance with current regulations and that it is capable of delivering the rated current required to operate the chosen model at full power. This socket must be controlled by a double-pole switch that turns the radiator on and off. In case of damage, replace the power cable of these radiators. Repair operations must be carried out only by the manufacturer.

8. Cautions

During standard operation, the radiator surfaces become very hot.

It is normal for the bottom pipes not to heat up.

Only fabrics that have been washed in water can be dried on the Electric Radiators.

The resistors of electric radiators cannot work without filling fluid; it is therefore prohibited to open the connections on the radiator.

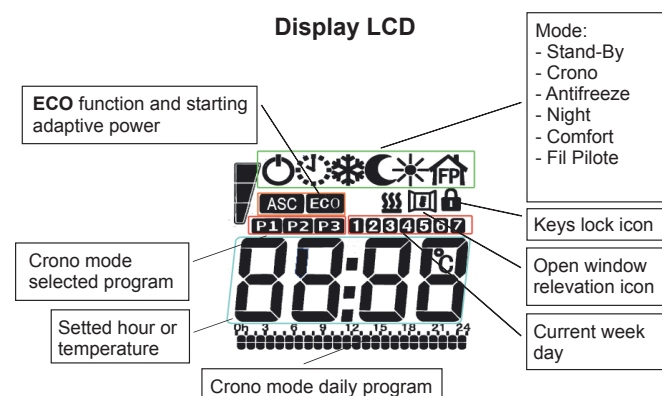
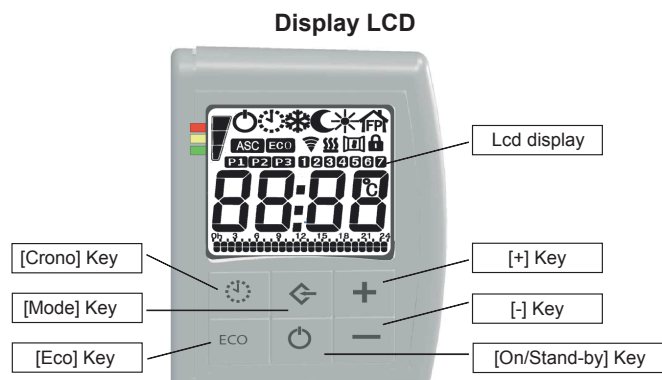
In the event of accidental overheating and/or improper use, the resistor circuit may be cut out. In this event the resistor can no longer be used, and must be replaced.

The towel rail must be positioned in such a way to allow the electronic control to detect the room temperature in the best possible way, far from external heat sources.

9. Replacing the resistor

Should it be necessary to replace the resistor, this must be done exclusively by the manufacturer, by an authorised person, or by a person with suitable qualifications, so as to avoid any risks.

10. Thermostat instructions



a. ON / STAND BY

Press the [On / Stand by] key to turn on the unit or program the "Stand-by" mode. When the thermostat is active, the mode and temperature are displayed. During "Stand-by" the display shows the current time and the day of the week.

NOTE: When the device enters "Stand-by" mode, 2 sounds of duration are output half a second. When the device is switched on, it emits a sound lasting one second.

b. COMFORT e NIGHT MODES

Two different levels of the temperature can be set:

- "COMFORT" temperature: It is the temperature used for "Chrono", "Fil pilot" and "Comfort" modes.

- "NIGHT" temperature: It is the temperature used for the "Night" and "Chrono" modes.

The desired temperature can be set pressing the [+] or [-] buttons. The range of configurable temperature is 7°C - 32°C.

IMPORTANT!

The temperature of "Night" mode must be below to the "Comfort" mode temperature. For this reason, the "Night" mode temperature can be set to a value between 7°C and the "Comfort" mode temperature.

The "Comfort" temperature can be set throughout the range of 7°C to 32°C. If "Comfort" temperature is set below "Night", the latter is set equal to the first.

c. Thermostat functions and modes

Press [Mode] key to move between the permitted operating modes

An icon on the display indicates the current operating mode (see table).

								
Fil Pilote	Comfort	Night	Antifreeze	ECO	Chrono	Open window system	Adaptive starting control	Key lock

Mode Fil Pilote (not present)

Comfort Mode

It is the normal use of the radiator to maintain the room temperature to the set value.

- Press the [mode] button until the corresponding icon appears on the display.

- Select the desired temperature with the [+] and [-] buttons.

Night Mode

By selecting this mode, the unit will keep the room at the set night temperature. The desired night temperature setting is as follows:

- Press the [mode] button until the corresponding icon appears on the display.

- Select the night level temperature using the [+] and [-] buttons.

Antifreeze Mode

- Selecting this mode will set the room temperature to 7°C.

- Press the [mode] button until the corresponding icon appears on the display.

Chrono Mode

In this mode, the ambient temperature is maintained at the comfort level or at the Nightly level according to time slots programmed as desired by the user.

- Press the [mode] button until the corresponding icon appears on the

display.

-Press [Chrono] button choose P1, P2, P3 programs.

For programming see paragraph 10.1

ECO Mode

This mode lowers the set temperature of 3°C regardless of other radiator settings.

To activate / deactivate the function, press the dedicated [ECO] button. (See paragraph 10.1)

Timer-2H Mode

Press the [mode] button until the displays shows the "2h".

The device is active at maximum power for 2 hours, up to a limit temperature of 32°C. "Boost" mode automatically interrupts, after 2 hours the thermostat goes back to the operating mode previously set.

the user can select other modes at any time, by pressing [Mode] button.

Key Lock

It is possible to lock the device to the "On / Stand-by" button to avoid improper or involuntary use, such as protecting children or in a public space.

To turn on/off the keypad, press the [mode] button for 5 seconds.

Adaptive Starting Control ASC*

This function, if activated, will turn on the radiator in advance of the programmed (Max 2 hours) to ensure that the room has reached the desired temperature at the set time.

NOTES: The function takes at least a couple of days to reach maximum efficiency.

Open Window Detection function *

The "Open Window Detection" function enables detecting of an open window by sensing a sudden decrease of the temperature in the room. In such a case, the device deactivates the heating element for a maximum of 30 minutes until at which point radiator will resume to operate in the previously set state.

When the function is enabled, the window symbol on the display is ON.

When the function is enabled and the window opening is detected,

the icon  on the display flashes.

* To activate the functions, refer to paragraph 10.1

a) Set date and time

- Activate "Stand-by" mode and press the [chrono] button for more than 5 seconds.
- With the [+] and [-] buttons, scroll through the menu to the Time function, press [mode] to confirm.
- Day: The word "day" blinks for 2 seconds, with the [+] and [-] buttons select the Day and confirm with the [mode] button.
- Time: Use the [+] and [-] buttons to select the time and confirm with the [mode] button.
- Minute: Use the [+] and [-] buttons to select the minutes and confirm with the [mode] button. When finished, the thermostat will exit the programming menu.

b) Set programs for the Chrono mode (P1,P2,P3):

- Activate the "Chrono" mode using the [mode] button press the [Chrono] button to choose which of the programs P1, P2, P3 to set.
- Hold the [Chrono] button to set the time sequence.

Now a time sequence can be set for each day of the week. It starts with day 1, the time zone is displayed, the desired sequence is selected with the [+] and [-] buttons to select, for each hour, the "Comfort" temperature (full bar) button [+] and the temperature "Night" (empty bar) button [-].

Press [Mode] to confirm the first day setting, repeat the same procedure for the remaining 6 days of the week; the day setting is saved and it can be copied to the next day by pressing [Mode] button.

c) Enabling "Open window detection", "ASC", "wireless" "ECO" functions;

- The user can enable or disable these functions as follows:
- Set the radiator to stand-by mode.
- Press [chrono] key for more than 5 seconds.
- With [+] and [-] keys, scroll the menu until "Func" function, press [mode] key to confirm.
- Press [+] or [-] keys to enable or disable the open window detection function.
- Press [mode] key to go to the selection of "ASC" function.
- Press [+] or [-] keys to enable or disable the function.
- Press [mode] key to go to the selection of "ECO" function.
- Press [+] or [-] keys to enable or disable the function.
- Press mode key again to go back to "Stand-by" mode.

Consumption indicator

	Max consumption: indicates the appliance use maximum energy available
	Medium consumption: it is advisable to save energy consumption by reduce temperatures setting.
	Low consumption: the radiator is set optimally

N.B. When the "  " is on, the heating element is active.

11. Disposing

At the end of life, this appliance must be deposited in the special collection centres for recycling; it is not an ordinary household waste. In case of replacement, the radiator can be sent to your distributor. Managing in this way, the end of life of a product allows us to preserve our environment, to limit the use of natural resources.



This symbol on the product indicates the obligation to deliver to the end of his life to a specialised collection point, in accordance with Directive 2002/95/EC..

