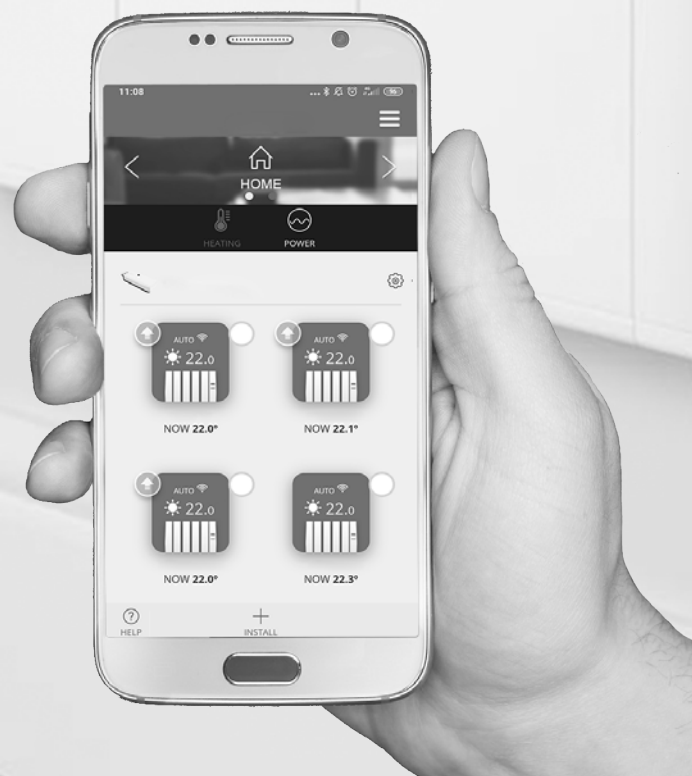


Installation and User Manual



A. PRESENTATION

Firstly we would like to thank you for purchasing this product. Your business is much appreciated and we trust that this equipment will provide many years of use and deliver full satisfaction. Before proceeding to the installation, you should read all the instructions and recommendations detailed in this instruction manual, since the manufacturer will not be responsible for any breakdown or damage caused by misuse. Once your electric radiator is installed, keep this manual in a safe place so that it can be consulted at any time.

B. RECYCLING



Warnings for the correct disposal of the product as established by the European Directive 2012/19 / EU. At the end of its useful life, the product should not be disposed of together with urban waste. It can be delivered to specific recycling centres or to distributors that can facilitate this service. Removing a household appliance separately means avoiding possible negative consequences for the environment and health resulting from improper disposal and recycling of the materials and components, thus obtaining significant savings in energy and resources. To underline the obligation to collaborate with a selective collection, the product shows the marking that this product includes warning signs to confirm the non-use of traditional disposal methods.

For more information, contact your local authority or the store where you purchased this device.

C. IMPORTANT SAFETY NOTES

The installation of the heating device must be chosen correctly and must be carried out according to the rules and in accordance with the installation guides included in the manual.

The equipment should be kept away from any flammable objects and children should not be left near the appliance without being supervised. Children under 3 years of age should be kept out of the reach of the appliance unless they are continuously supervised.

Children from 3 years old to 8 years of age should only switch the appliance on / off as long as it has been placed and installed in its normal operating position.

They must also be supervised or have received instructions regarding the use of the appliance in a safe and secure manner and understand the risks of a heating device.

Children from 3 years old to 8 years old should not plug, operate, clean or perform maintenance operations.

This device can be used by children aged 8 years and above including people with reduced physical, sensory or mental abilities or lack of experience and knowledge providing they have been given appropriate supervision or training regarding the use of the device in a safe manner and understand the dangers involved. Children should be supervised to ensure they do not play with the device.

Cleaning and maintenance to be performed by the user, should not be performed by children without supervision.

Caution: some parts of this product can get hot and potentially may cause burns. Particular attention must be paid when children and vulnerable people are present.

The equipment must under no circumstances be covered by clothing, or any other object, nor placed under a cabinet or any other obstacle that prevents the circulation of hot air.

WARNING:

To avoid overheating, DO NOT COVER the heating appliance.



The heating appliance must not be placed immediately below a socket outlet. If your radiator is a dry type, it can be connected only to a supply with system impedance no more than 0,24 Ω . In case necessary, please consult a qualified electrician for more information.

Avoid the use of extension cords as these can cause overheating and cause a fire risk. However, in case of using an extension cord, the cable must be the minimum size 14 AWG and with a power no less than 2500w.

The connecting cables of the heater itself must not come into contact with the surface of the appliance, and in the event that they come into contact with each other, they must be protected with an insulating cover to maintain a low temperature level.

The equipment must not be installed in places where there is a risk of splashing water, such as bathtubs, washbasins, etc.

The equipment must be installed so that the switches, thermostat, outlet cannot be touched directly or indirectly by a person in a bathtub or shower (respect the distances of prohibition according to RBT).

In case the power supply cable is damaged, it can only be replaced by the Technical Assistance Service, in order to safety risks.

Always respect the safety measures when fixing the device on the wall. The electrical installation must have a switch with a fuse and magnetic protection.

Likewise, a differential protection against ground faults is advisable. The voltage and frequency values of the electricity network must be the same as those indicated on the nameplate.

It is possible that the radiator may produce slight noises at the beginning of its operation which is normal due to the expansion and contraction of aluminium. With a few times of operation, the noise should disappear.

It is recommended that the underside grill of the radiator is regularly cleaned/cleared with a vacuum in order to prevent build up of debris such as fluff or animal fur.

D. INSTALLATION

BEFORE INSTALATION

The installation and start-up of this device is extremely simple, however you should read very carefully all the instructions and recommendations detailed in this instruction manual, as the manufacturer will not be held responsible for any damage caused by non-compliance.

Once unpacked the device, the remains of the packaging must be removed in a responsible manner since all the elements have been designed for recycling. If, once unpacked, it detects apparent damage to the appliance, you should consult your supplier before proceeding with the installation and electrical connection within a period of less than 24 hours.

Assembly and installation must be carried out following the instructions detailed in this manual. For safety reasons, the radiator should not be installed so that switches and other controls can be touched by a person in the bathroom or in the shower.

VERY IMPORTANT!

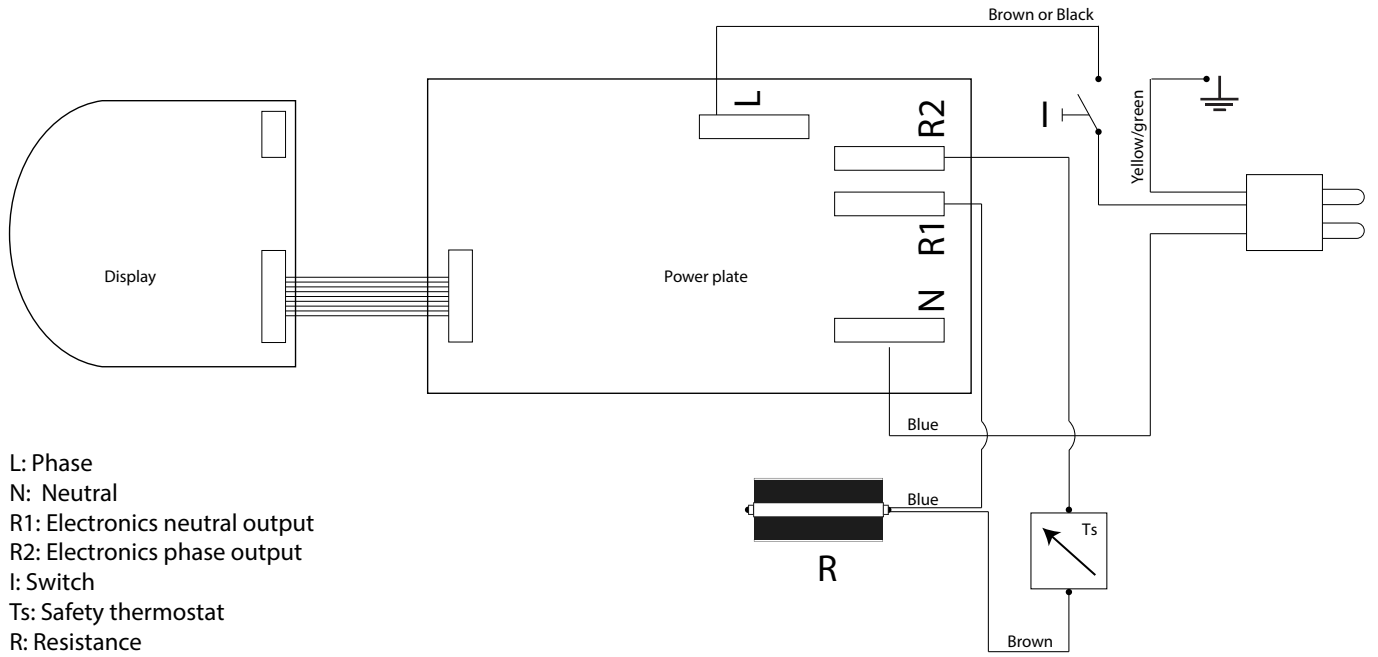
- Read the installation manual before assembling the equipment.
- Read the user manual to operate the equipment.
- Observe the warnings carefully.
- Install the equipment in a place where the air can fully circulate.
- It is advisable to be assembled by an individual with DIY skills or qualified electrician.



ELECTRIC CONNECTION

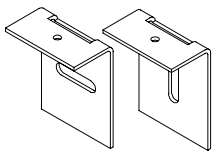
- If you decide to remove the 3 pin plug from the power cord then you must follow the instructions below regarding the electrical installation and the connection must be made by a qualified installer.
- If the electrical connection is spurred to a mains electric supply then it must be installed in accordance with the installation regulations in force in the country in which it is to be fitted.
- For safety reasons, verify that there is no voltage in the network prior to connecting the device to the mains.
- Before connecting the appliance to the mains it must be ensured that the supply voltage is within the indicated on the nameplate 230V.
- The device must be connected to the protective conductor of the fixed installation.
- Any incident arising from the breach of these instructions will invalidate the guarantee.
- For the electric connection please take close note of the electrical diagram with special attention to the colours of the cables.
- If the power cord is damaged, it must be replaced by the manufacturer, its after-sales service or by a similar qualified personal so that the user is not in danger.

WIRING DIAGRAM

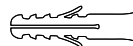


WALL FIXATION

The supplier will provide an installation kit inside the packaging consisting of the following elements:



2x WALL BRACKET



2x SCREW PLUG



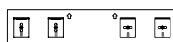
2x DIN7505A 4X40



2x NUT

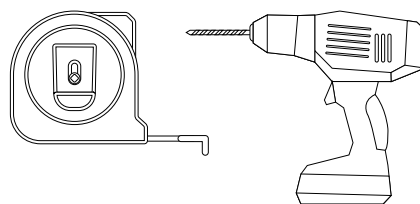
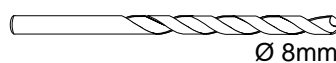


2x DIN7981 4,2X9,5



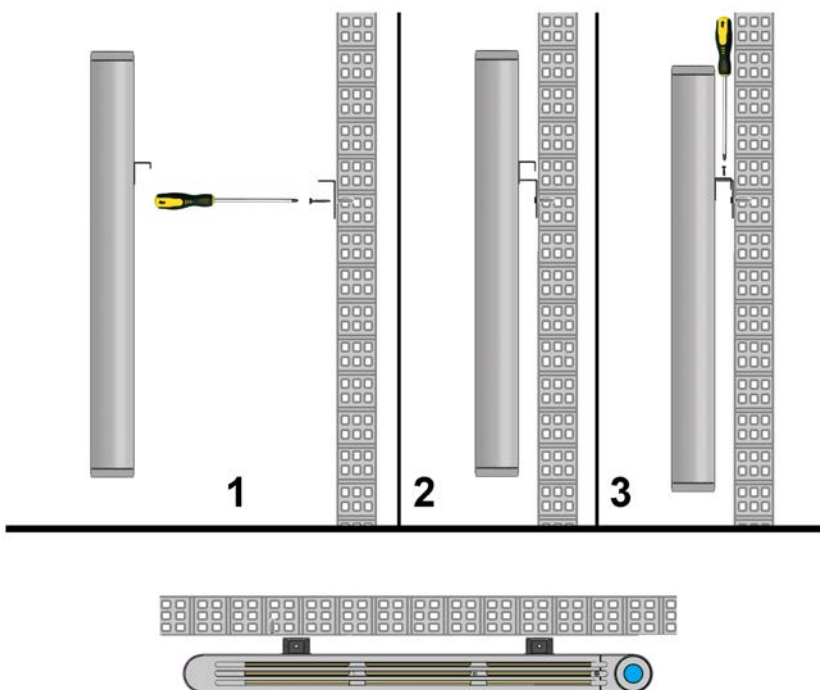
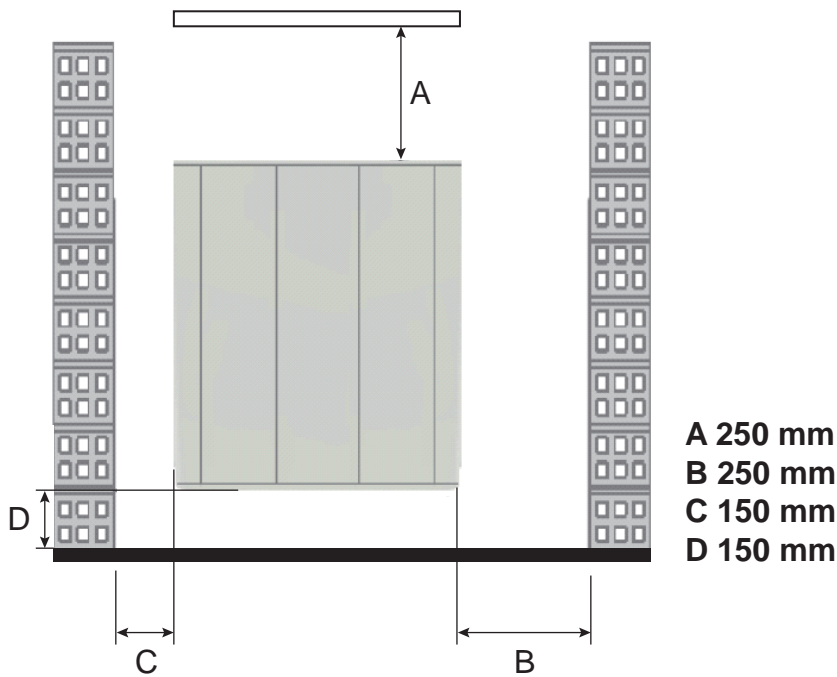
1x TEMPLATE

Tools required:



Follow the steps illustrated below to hang and install your radiator:

1. Remove the radiator from its packaging and choose where to hang it.
2. Note that the minimum distances required around the radiator.
3. Use the template included inside the box for your help.
4. We suggest that you use a spirit level to ensure that the radiator is positioned correctly.
5. Using the marks of the template, make the holes that are needed.
6. Using a drill, drill the holes for the plugs appropriate to the type of wall.
7. Place the radiator brackets in place using the supplied screws, washers and wall plugs.
8. Bring the radiator to the wall and hook the grooves at the back of the radiators through the corresponding holes on the wall brackets.
9. Hang the radiator and fix it with the screws.



WARRANTY

The company offers an electrical guarantee for the period of 2 years.

In order for this guarantee to be valid, you must present the original of the invoice, delivery note or purchase receipt.

Previous requirements:

- The warranty only covers manufacturing defects or any problem caused by such defects.
- All problems resulting from insufficient installation or power (not enough power to heat the room, incorrect installation, etc.) are not covered by this warranty.
- This radiator is for domestic use, installation in any other environment is not guaranteed.
- The manufacturer reserves the right to decide whether to repair any defective part or replace the product.
- All costs resulting from damage caused by improper use, transportation, improper power supply, are not covered by this warranty.
- If the appliance is not installed or used as indicated in this manual, the responsible company will not be responsible for any damage caused by its misuse.
- In the last case of resorting to legislation, both parties will be under the jurisdiction of the courts of the province of the manufacturer.

E. TECHNICAL CHARACTERISTICS

| | |
|--|---|
| Temperature measurement resolution | 0,1°C |
| Setpoint temperature increases | 0,5°C |
| Measuring range ambient temperature | 0°C - 45°C |
| Temperature selection range | 5°C - 30°C |
| Weekly schedule | Each 1h |
| Maximum load (resistive only) | 16A TRIAC 8 A. (2000W) |
| Supply voltage | 230 Vac +/- 10% 50 Hz |
| RF | 868Mhz |
| Operating temperature | <70°C |
| Consumption error measurement | <3% |
| Norms and directives: The thermostat has been designed in accordance with the following European standards and directives. | EN 60730-1 : 2013 EN 61000-6-1 : 2007 EN 61000-6-3 : 2007 EN 61000-4-2 : 2009 2006/95/EC low voltage EMC 2004/108/EC |

ENERGY SUPPLY:

Connect the electric radiator using the switch installed for this function. Before using your radiator it is necessary to make some type of adjustment.

In its first use, the transmitter has an internal battery, which must be charged for a minimum of 24 hours so that the programming is not lost. If the radiator is disconnected, the time and day of the last time before the disconnection will be saved (it does not count while it is off) unless it is connected to the Internet, which will be updated automatically.

NOTES:

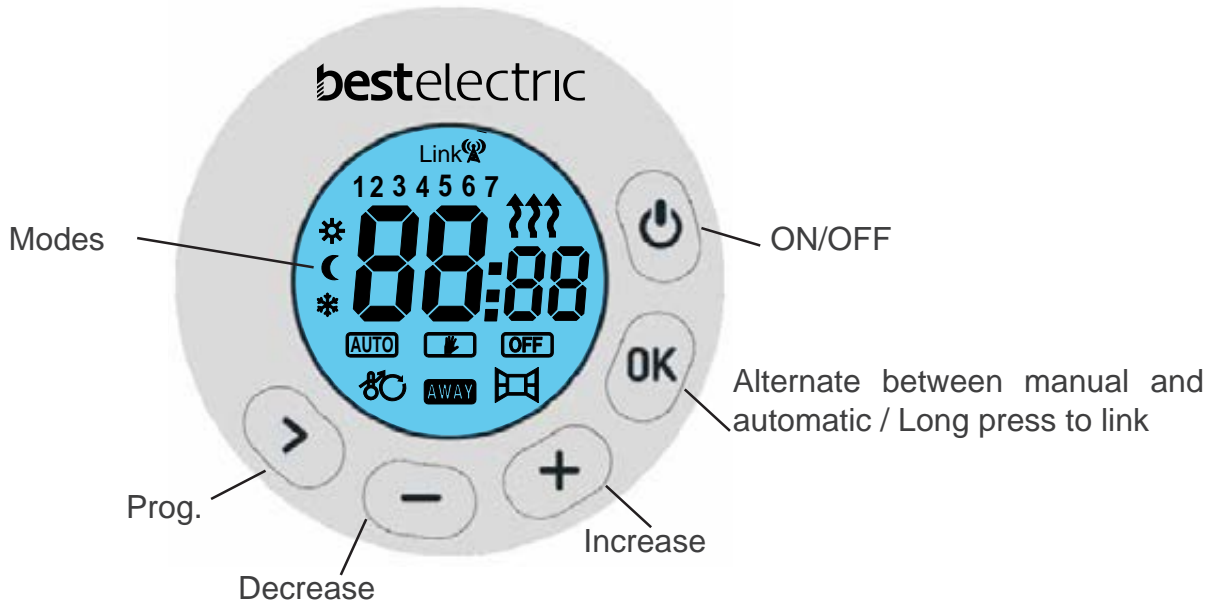
To control the radiators through the APP, you need a Multilink that connects the radiators to the internet, using the router in the house. The APP will allow you to configure, program and access the consumption statistics of the devices through an intuitive interface and with a simple operation (user manual included with the Multilink).

F. USE OF RADIATOR

Setting the radiator in programming mode, will allow you to assign temperatures at different times of the day, for each day.

Understanding the full programming potential of your radiator will help to reduce energy consumption.

Display:



G. OPERATING INSTRUCTIONS

MODES:

Pressing [OK] selects the operating mode of the radiator:

- **Auto.** The target room temperature varies automatically according to customizable programming based on 3 temperatures (Confort, Eco, Antifreeze). In "Auto" mode you can temporarily vary the temperature also with [+] o [-], and the change will be effective until the next heating period or the end of the day. In this mode, on the screen you will see the temperature, alternating with the letters "Pro" and "AUTO" icon.
- **Manual.** The target room temperature remains fixed, depending on the user's choice (default 19°C). In "Manual" mode press the key [+] and [-] to change the temperature. The temperature will be fixed. In this mode, you will see on the screen the selected temperature and hand icon.

Pressing [ON/OFF] the radiator stays off (default mode). In this mode, on the screen we will see the time and "OFF" icon.

SETTING TIME AND DAY



Press [>] for 3 seconds, then scroll with [>] from 1 to 7 and press [>] once more until the flashing 1 appears.

With [+] and [-] select the current day (1 = Monday, 7 = Sunday) and press [OK].

With the hours blinking, set the time with [+] and [-] and select [OK]. Repeat the same process with the minutes and press [OK] to accept and exit.

It is very important to have the time and day configured so that the programming works correctly if you use the "Prog" mode.

ADJUST PROGRAMMED TEMPERATURES:

In “Auto” mode the temperature of each hour will change automatically following the programmed Schedule. The user must assign to each hour one of the following temperatures modes:

- Comfort (☀), used normally when the user is at home.
- Eco or saving (☾), used at night or when the user is away from the home or not using the room.
- Antifreeze or minimum temperature (❄), used for longer absent periods.

To define these temperatures:



- Press [>] and then press [OK].
- Select the temperature with [+] or [-] for comfort mode (default 19°C) and press [OK].
- Select the temperature with [+] or [-] for the eco mode (default 17°C) and press [OK].
- Select the temperature with [+] or [-] for the antifreeze mode (default 5°C) and press [OK].
- Press [>] to exit.

Comfort mode can be configured from 1 to 30°C. The eco mode can be configured up to 0.5°C less than the degrees configured in the comfort mode (from 0.5°C to 29.5°C). The antifreeze mode can be configured up to 0.5°C less than the degrees configured in the eco mode (from 0 to 29°C)

Annotation: The radiator does not have an off mode in its programming. If you want to do this, you can configure the eco mode with the lowest possible temperature. In this way, in the hours that you have configured the eco mode, the radiator will not turn on unless the room temperature is less in the room than the configured one.

SETTING PROGRAM

The radiator allows the creation of a weekly programme schedule assigning one of the 3 temperature settings to each hour. The program for each day (day 1 to day 7) can be different.

Press the [>] key for 3 seconds to start programming your bespoke heating settings.

1. The display will show 0:00 on day 1.

2. With [OK], select the desired “temperature mode” for the time that appears on the screen (Comfort, eco or antifreeze, at all times of each day, the eco mode will be preset by default).



3. Use the [+] key to increase the time value (or [-] to return to the previous time) and select the desired mode again with [OK].



4. You must perform this procedure from 0:00 to 23:00 each day and 7 days (when you arrive at 23:00 on day one, when you press [+], it will automatically skip to 0:00 hours on day two and so on until day 7. You can also advance through the days with the [>] key).

5. When you finally reach 23.00 on day 7 and press [+], the day and time settings will be displayed (you will see the current day flashing). Please press [>] to exit the program without modifying the time settings. Another option when reaching 23.00 on day 7 is to press [>] twice.

KEYPAD LOCKING

Use this function to prevent any changes to your settings (In a child room, public area, etc.).

Press [+] and [-] simultaneously for 3 seconds to lock the screen and the "Lock" message will appear on the display:



Pres [+] and [-] for 3 seconds to unlock.

ADVANCED ADJUSTMENTS



To enter the advanced setting mode:

1. Press [>] while the radiator is in one of the main modes.
2. Press again [>] for 5 seconds. Then press [+] or [-] to choose the parameter to modify (C1-C6).



3. To modify one of the parameters press [OK] on the desired parameter and then change the setting with [+] or [-] and press [OK] again to confirm. You can continue navigating to the parameters with the [+] or [-] keys or press [>] to exit the advanced settings.

The advanced settings are:

- C1- Choose °F or °C (default °C).
- C2- Choose type of control (default PID).
- C3- Temperature Compensation Offset (default 0°C).
- C4- Firmware.
- C5- Open window detection (turning off for 30 minutes if a drop of 2.4 °C is detected in 4 minutes), is indicated by the icon:  (default OFF).
- C6: Activation of the adaptive start-up function, so that the device predicts the optimal start-up time to obtain the desired temperature according to the program. In this way the user does not need to take these times into account when creating the program. Maximum anticipation time: 24h. It is indicated by the icon:  (default OFF).

RESET RADIATOR

Press simultaneously [$>$] and [OK] for 10 seconds. When “rES” appears, click on [OK] to confirm.



H. ERROR MESSAGES

- OC: Temperature probe not present.
- SC: Temperature probe shorted.
- Err1: Actuating element in short circuit.
- Err2: Overload (more power than allowed).
- Err4: Overheating ($> 90^{\circ}\text{C}$ in the electronics area).

I. ECO-DESIGN

| Item | Unit |
|--|------|
| Type of heat output/room temperature control | |
| Electronic room temperature control plus week timer | yes |
| Other control options (multiple selections possible) | |
| Room temperature control, with open window detection | yes |
| With distance control option | yes |
| With adaptative start control | yes |
| With working time limitation | yes |
| Contact information: see back cover | |

| Data | | | Value | | | | |
|-----------------------------------|-------------|------|---------|---------|---------|---------|---------|
| Item | Symbol | Unit | 600 | 900 | 1.200 | 1.500 | 2.000 |
| Heat output | | | | | | | |
| Nominal heat output | P_{nom} | kW | 0,6 | 0,9 | 1,2 | 1,5 | 2,0 |
| Minimum heat output (indicative) | P_{min} | kW | 0 | 0 | 0 | 0 | 0 |
| Maximum continuous heat output | $P_{max,c}$ | kW | 0,6 | 0,9 | 1,2 | 1,5 | 2,0 |
| Auxiliary electricity consumption | | | | | | | |
| At nominal heat output | el_{max} | kW | 0,6 | 0,9 | 1,2 | 1,5 | 2,0 |
| At minimum heat output | el_{min} | kW | 0 | 0 | 0 | 0 | 0 |
| In standby mode | el_{SB} | kW | 0,00095 | 0,00095 | 0,00095 | 0,00095 | 0,00095 |



Unit 7, Marrtree Business Park,
Grimbald Crag Close, Knaresborough HG5 8FA

Phone: 01423 733000

Email: info@bestelectricradiators.co.uk