

# Touch Thermostatic Element

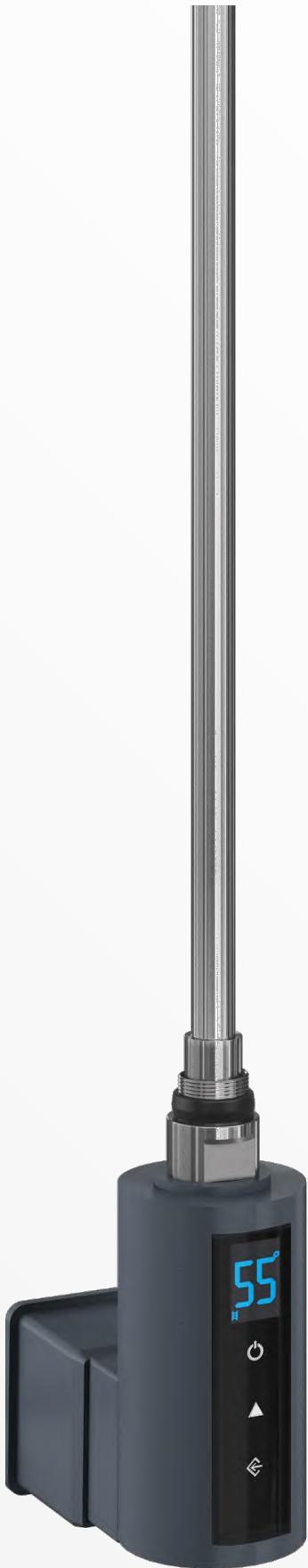
## Instruction Manual



**WARNING:** Read these instructions carefully before using the appliance



# COLOR OPTIONS



ANTHRACITE



CHROME



WHITE



BLACK

# SAFETY INSTRUCTIONS

**Please read this instruction carefully before using or installing the heating element.**



- Children of less than 3 years should be kept away unless continuously supervised. Children aged from 3 years and less than 8 years shall only be allowed to operate the heater when it has been properly installed and connected. The child must be under adult supervision or have been trained to safely operate the device while understanding the risks.
- Some parts of this product can become very hot and cause burns. Do not touch the surface when in operation. Do not install close to curtains or other combustible materials. Particular attention should be given where children and vulnerable adults are present.
- The element must be installed by a licensed electrician in accordance with current IEE wiring regulations. Ensure that the electrical supply is fully isolated before commencing installation or servicing. The element must be connected to a 220-240 Volt AC mains power supply via a fused spur cable outlet, and must be earthed.
- The element must NEVER be used unless it has been professionally installed inside a towel rail filled with fluid to the correct level. The element will cease functioning if it is not fully submerged in a suitable fluid during operation.
- The recommend quantity of fluid with the towel rail is 90% of the unit's total volume. If you are installing the element in a towel rail that has been pre-filled for use with this element, do not allow fluid to escape when the element is fitted. In the case of loss of heating fluid, contact your supplier.
- Do not use the device if you detect damage to the mains plug or power cable. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons to avoid a hazard. All repairs and servicing must be carried out by a qualified person.
- The towel rail in which the element is installed must be permanently fixed to the wall. Do not fit the towel rail below or in front of an electric socket.
- The element must be placed where the switches and controllers cannot be touched by a person in a bathtub or shower.
- The element must be disconnected from the mains during cleaning and maintenance.
- Never attempt to disconnect the control head from the heating element. The product is an integrated unit that has been factory sealed.
- Do not open the element — any interference with internal components will invalidate the warranty.
- If the towel rail is used to dry clothing or towels, ensure the fabrics have only been washed in water, to prevent the device coming into contact with harsh chemicals.
- The unit is not to be used by persons (including children) with reduced physical, sensory or mental capabilities. Such persons may only use the device if they are supervised by a responsible person.

## TECHNICAL INFORMATION

Voltage	220-240V AC / 50Hz
Wattage	100-1000W
Temperature setting	30-70 °C (fluid) 15-30 °C (ambient)
Frost Protection	7°C
IP rating	IP44
Timer mode	Boost 2/4 hours
Appliance class	Class I
Thread size	G ½ "
Application	This element is not suitable for dry heating. It must be submerged in liquid (either in a liquid-filled electric-only installation, or as part of a dual-fuel installation).

## PANEL DESCRIPTION



# OPERATION INSTRUCTION

## Standby Mode

Once the thermostatic heater is power on, the unit will go into standby mode immediately. An arrow signal ▼ will show on the screen.

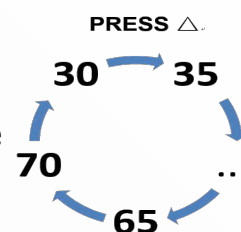
Antifreeze function: When the heater is in stand-by mode, it will automatically default to frost protection state. It means that the fluid temperature falls below 7°C, the heater will be active to work automatically.

## Work Mode

Once the thermostatic heater is in standby state, by pressing ⏻ it will enter into work mode.

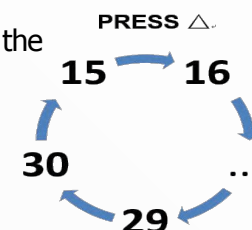
### Liquid temperature control:

The first indicating temperature on display is always 40°C. You can set your desired temperature by pressing ▲ key on the control, when it goes to 70°C, it will recirculate from 30°C to 70°C. 5°C increments between 30°C and 70°C. For example:



### Ambient temperature control:

If you want to control the ambient temperature from the thermostatic controller, press the button ⏻ to AC state shown on the display, then press ▲ on the controller, it is at ambient control condition. 1°C increments between 15°C and 30°C, when it goes to 30°C, it will recirculate from 15°C to 30°C. For example:



If the enter target temperature is higher than the current temperature, a flashing sun symbol will appear on the display. If the actual temperature is falling in order to reach the target temperature, the sun symbol will flash quickly. Instead, the sun symbol will disappear when the target temperature is reached. If no sun symbol on the display, it means that the actual temperature is same as setting temperature shown on the display.

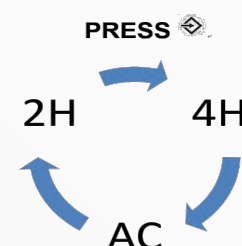
A: radiator temperature control 

B: room temperature control 

## Boost Mode

If you need a short boost Maximum heating performance, then press the button ⏻ on the control unit, boost time option is 2 and 4 hours.

The element will stay working at the setting boost hours at maximum performance. After heating at the setting hours, it will revert back to previous chosen mode and temperature.



## AUTOMATIC SETTINGS

### Over heated protection

If the automatic control system is faulty and the water temperature in the radiator is increasing in an uncontrolled manner, the system has two safety mechanisms to prevent excessive pressure in the radiator. Firstly, the entire system is completely shut down electronically when a water temperature of 95°C is reached. If this protection mechanism fails for whatever reason, a simple downstream thermal fuse ensures complete shut-down, and the heating boiler dies.

### Freeze protection

Once the control unit is in "STANDBY" mode (Power on), the control unit has an automatic freeze-protection setting. The default setting for frost protection is between <math>7^{\circ}\text{C}</math> and  $15^{\circ}\text{C}</math>. If the radiator temperature falls below  $7^{\circ}\text{C}</math>, the heating system switches on automatically, heats the liquid in the radiator to  $15^{\circ}\text{C}</math> and then switches off again. An Ice ❄️ appears on the display. And it will work as a circulation way.$$$

### Room temperature compensation

As the NTC that measures the room temperature and feeds back information to the controller is located on the back of the controller, it is close to the warm radiator. The measured temperature will therefore not accurately reflect the temperature in other parts of the room. For this reason, there is an automatic temperature adjustment of  $-3^{\circ}\text{C}</math> in the control unit.$

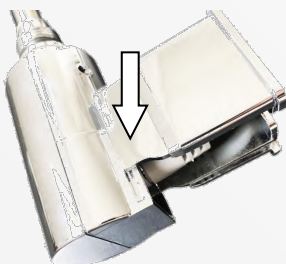
### Open window/open door detection

This automatic function detects when the temperature falls by  $2^{\circ}\text{C}</math> or more over a short period of time. In this case, the system assumes that this reduced temperature is due to opened windows or open doors, "OP" will be displayed on the controller unit and the heating system is switched off automatically and will be active to heat automatically once the temperature is detected back to stable condition.$

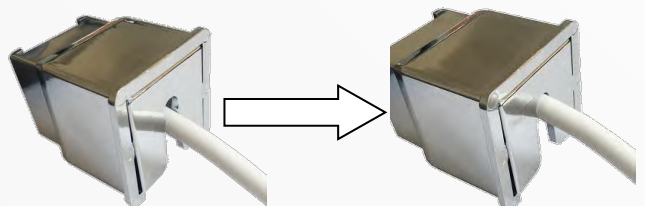
## INSTALL THE CABLE MASK

### How to install the cable mask to the element box after installing the element to the towel radiator

Step 1: Slide the decorative cable mask into track on the back of element box



Step 2: Lock the cable to the hole on the mask



# INSTALLATION

These are general-purpose instructions for fitting your element into a suitable towel rail. Always check with the manufacturer to ensure the product is suitable for use with the element, and follow any additional installation guidance provided with the unit. Installation must be completed by a qualified electrician. Do not attempt installation DIY.

## **'Electric-only' Element Installation**

1. **IMPORTANT.** Always switch off the power supply at the mains during installation and maintenance. We recommend that the fuse is withdrawn or circuit breaker switched off at the distribution board while work is in progress.
2. The element must be fitted to the towel rail before mounting the rail on wall.
3. Ensure all threaded joints are wrapped with PTFE tape.
4. Ensure the O-ring is present on the element thread.
5. Insert the element into the chosen side of the rail, bottom only, and tighten into place using a spanner.
6. Fill the rail approximately 90% with liquid, to allow for expansion.
7. Insert the blanking plug (with PTFE tape) into the open tapping, and tighten with a spanner.
8. Fit the rail to the wall, following the manufacturers fitting instructions.
9. Connect the element to the mains power using a BS fused connection unit.

The wires should be connected as follows: **Blue** (Neutral), **Brown** (Live), **Green/Yellow** (Earth).

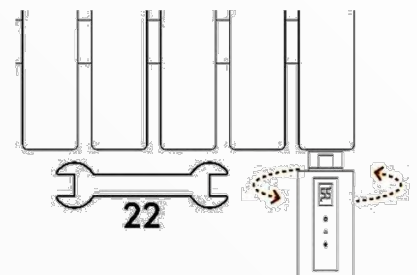
10. The fused connection unit should be fitted with a 5 Amp fuse to BS1362.
11. Shortly after switching on the unit, ensure the towel rail is bled for any excess air.
12. Check for leaks and re-tighten joints as necessary.

## **'Dual-fuel' Element Installation**

1. **IMPORTANT.** Always switch off the power supply at the mains during installation and maintenance. We recommend that the fuse is withdrawn or circuit breaker switched off at the distribution board while work is in progress.
2. The element must be fitted to the towel rail before mounting the rail on wall.
3. Ensure all threaded joints are wrapped with PTFE tape.
4. Ensure the O-ring is present on both the element and Tee piece threads.
5. Insert the element into the Tee piece and tighten with a spanner.
6. Insert the Tee piece with electric element into the chosen side of the rail, bottom only, and tighten with a spanner.
7. Fit the rail to the wall and connect to the central heating, following the manufacturers fitting instructions.
8. Once the rail is mounted on the wall and connected securely to the central heating system, open the radiator valves and allow the rail to fill.
9. Once the rail has filled with water, with the central heating OFF, use the air vent to purge any excess from the rail.
10. Connect the element to the mains power using a BS fused connection unit.

The wires should be connected as follows: **Blue** (Neutral), **Brown** (Live), **Green/Yellow** (Earth).

11. The fused connection unit should be fitted with a 5 amp fuse to BS1362.
12. Shortly after switching on the unit, ensure the towel rail is bled again for any excess air.
13. Check for leaks and re-tighten joints as necessary



## MAINTENANCE

- Before performing maintenance, always unplug the unit from the mains system.
- Periodically check the fluid level in the towel rail and ensure the heating element is completely submerged.
- Clean the product with a dry or damp cloth. If necessary, use a very small amount of detergent, ensuring that it contains no solvents or abrasives

## NOTES PRIOR TO REMOVAL

- Before dismantling permanently, disconnect the heating element from the mains and ensure that the towel rail is not hot.
- Be aware. A towel rail filled with liquid can be very heavy. When moving the towel rail, ensure that you take the necessary safety precautions.
- Before disassembly, close the appropriate valves and drain the towel rail completely to avoid causing any damage.

## PRODUCTION DISPOSAL

- This product should not be disposed of as general waste but should be brought to the appropriate collection point for re- cycling of electric and electronic devices. This information is provided by the sign on the product, user manual and packaging. Information on the appropriate point for used devices can be provided by your local authority, product distributor or the store from where the product was purchased. Thank you for your effort towards protecting the environment.

