

4-INSTALLATION OF HEATING ELEMENT

Installation for these models :

- Standard Electric Element (ELM/S)
- Mini Round Thermostatic Control Unit (ELMMRN)
- Weekly Thermostatic Control Unit (ELMWKY)

WARNING! The device must not be connected to electricity during installation. unplug the device prior to installation.

WARNING! Please take every precaution when filling the towel rail in order to avoid being burnt by hot liquid

WARNING! Do not switch the heating element on if it is not fully immersed in the towel rail.
WARNING!

Do not install the heating element by turning the enclosure itself!
Tightening of the unit should be made by the help of wrench!

WARNING! Remove the protective coating on the plastic enclosure before use!

WARNING! For IP44 Protection the heating element assembly must be made together with the special gasket given inside the package.

WARNING! Protective earthing conductor (yellow & green wire) of control unit should be connected to earthing wire of the heating element .This connection is necessary secure the earthing continuity.

WARNING! The device should only be installed by a qualified installer in accordance with the applicable regulations regarding safety and all other regulations.

WARNING ! The towel rail is to be installed so that switches and other controls can not be touched by a person in the bath or shower.

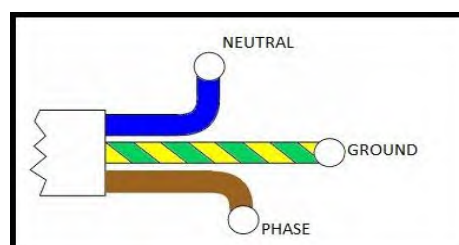
WARNING! Heating element should not be fitted horizontally or turned downwards.

WARNING! Connect the cables coming from the control unit following below instructions:

WARNING ! Filling the towel rail with too much liquid leads to exceeding of acceptable pressure and damaging of the towel rail or heating element.

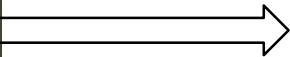
WARNING ! Water, water with anti-freezing agent should be used as a heating agent – possibility of installation and correct use is conditioned by meeting manufacturer’s requirements on the towel rail and heating element.

- a. Brown wire — connection to live circuit (L) of the heating element
- b. Blue wire — connection to neutral circuit (N) of the heating element
- c. Yellow & green wire — connection to earth (PE) of the heating element.



1) The resistance will be placed inside the towel rail.

a)

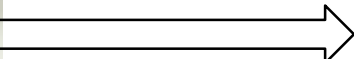


Faston Element - Standard



Standard Electric Element

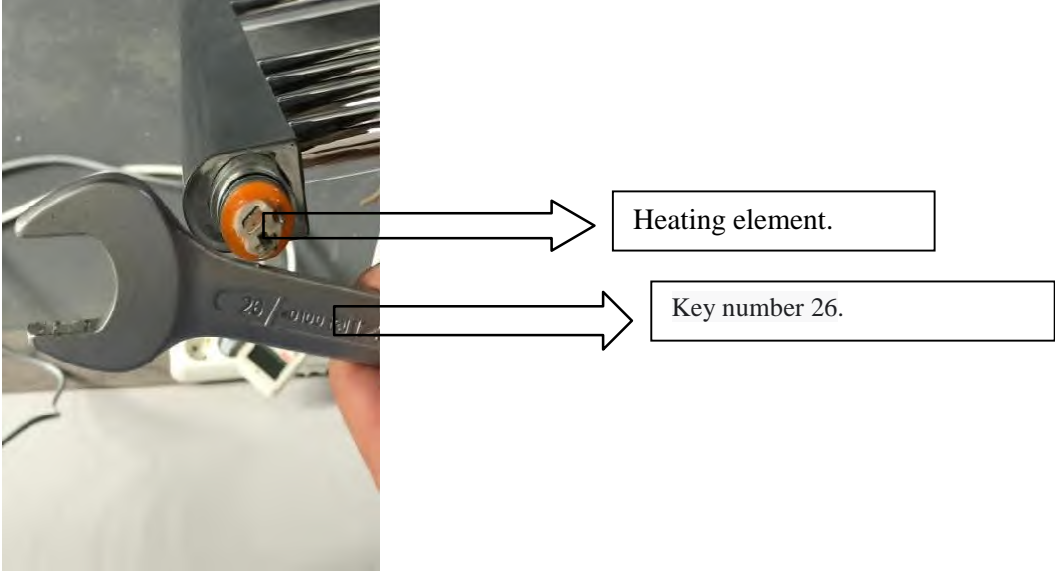
b)



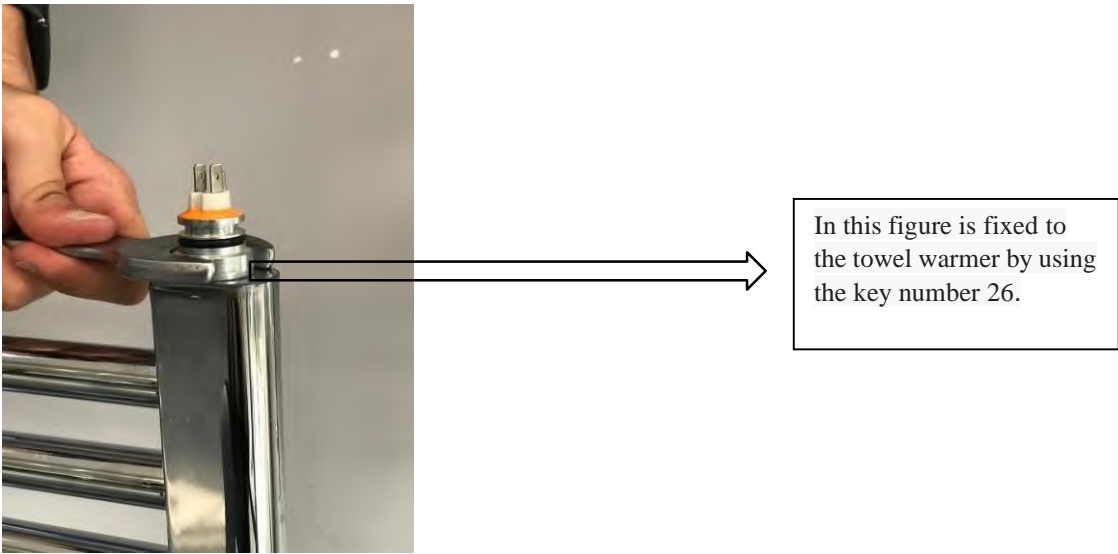
Towel rail.

2) The resistance part shown in the figure is fixed to the towel warmer by using the 26 numbered key.

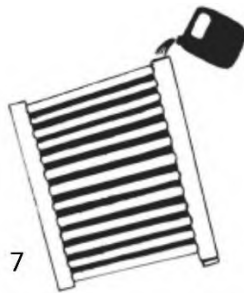
a)



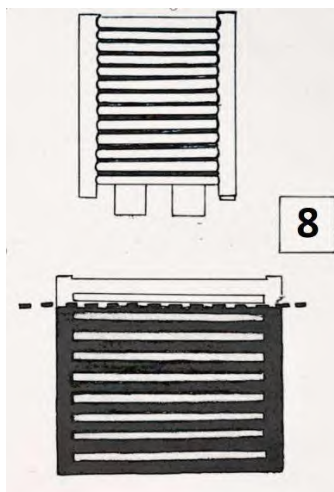
b)



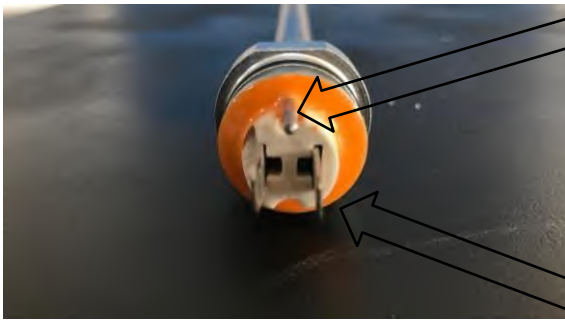
- 3) Tilt the towel rail to ensure that the top collector opening is at its highest point.
- 4) Before filling the radiator with heating fluid, make sure that the "radiator - heater" connection is tight.
- 5) Position the controller so that it faces you or to the side.
- 6) The towel warmer should never rest on the heating element controller or any part of its connection!
- 7) Tilt the towel rail and fill the towel with warming agent.



- 8) Return the towel to the upright position and check the level of the liquid inside



- 9) When the towel rail is in an upright position, it is connected to the control unit.
- 10) The connection between the control unit and the terminals of the resistor is made. The following steps are applied in order;



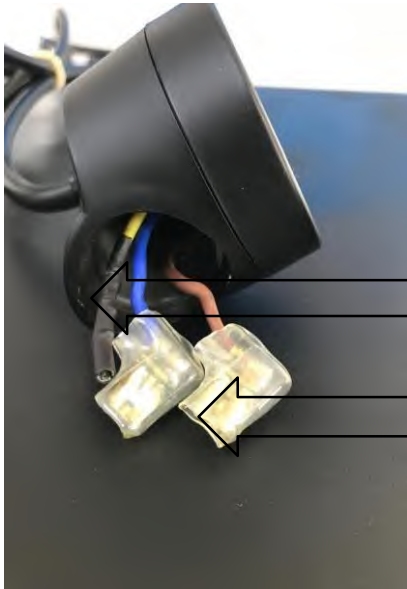
1

2

1:Ground terminal

2: Power terminals

Figure1



3

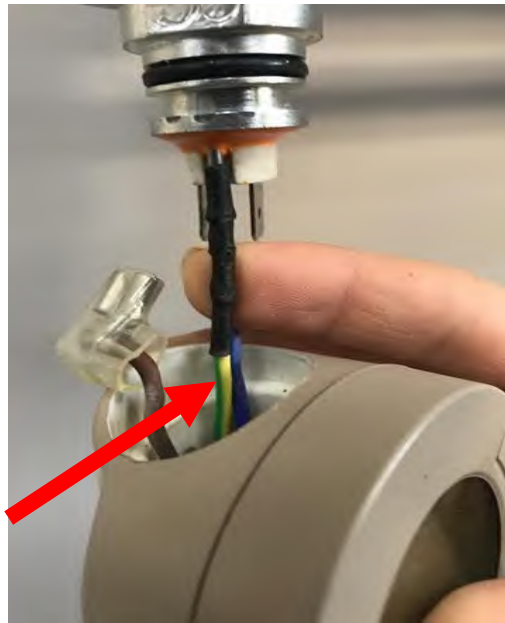
4

3: Ground wire

4:Power wires

Figure2

- i) **Connecting the grounding terminal number 1 in Figure 1 and the grounding cable number 3 in Figure 2 connections are made.**



i)

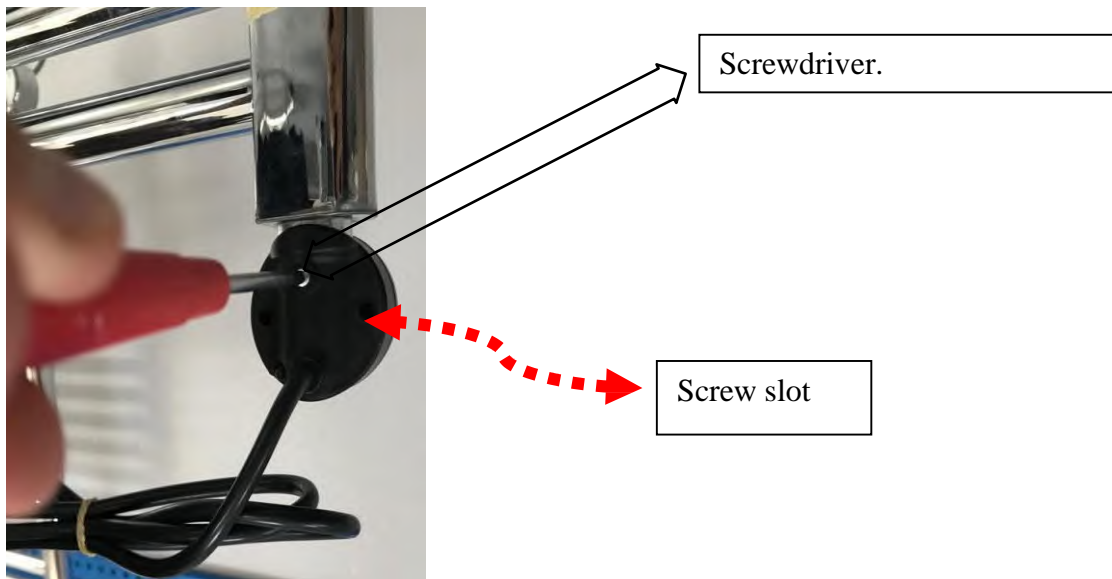
- ii) **In Figure 2, power cables number 4 are connected to power terminals number 2 in Figure 1, regardless of the cable color.**



ii)

11) The screw on the back of the control unit is fixed with the help of a screwdriver.

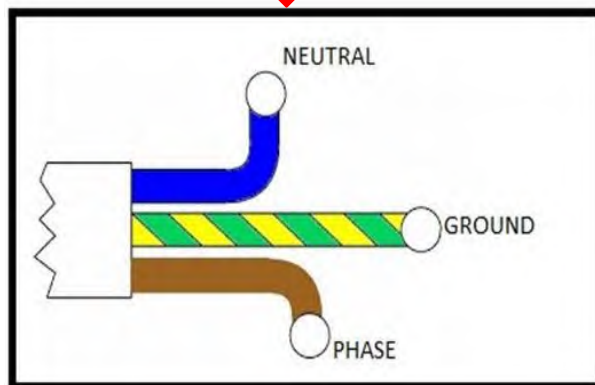
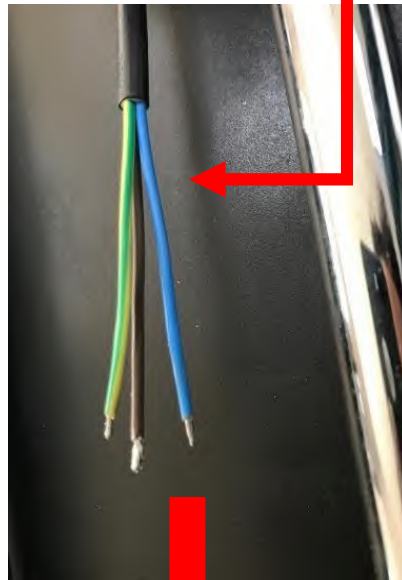
WARNING! !After making sure that the screw is fully seated in the hole on the back of the controller, tighten it all the way.



12) Make sure the connection between the towel warmer and the heating element is tight.

13) Position the controller for easy and convenient access.

14) To connect the device to the mains, the cable colors shown in the figures must be taken into account. When connecting the control unit to the mains, phase, neutral and earth connections must be made carefully



WARNING! You have must to check the position before start the device. The towel rail must be verticalal positon.

15) Connect the heating element unit to the outlet / plumbing. The device is ready for operation.

16) Set the maximum possible temperature and observe the liquid level rise, excess liquid may overflow from the upper cavity. Clean up excess fluid to prevent the controller from flooding or getting wet.

17) When the heating element level stops rising, wait 5 minutes, turn off the heating element unit and turn off the power to the appliance.

18) Do not wait until the towelette has cooled down and pour a small amount of liquid into the middle of the upper tube.

19) Close the upper opening of the collector with a special gasket and put it back on the wall.

Installation for On Off Touch Element (ELMOOT)

- 1) The product is placed inside the towel rail.



- 2) Since the control box comes pre-assembled with a resistor, at this stage we fix the resistor to the towel warmer. The part of the resistance shown in the figure is fixed to the towel warmer by using the key number 26.



Key number 26.

i)



Fix to the towel rail

ii)



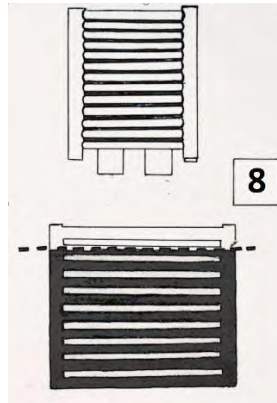
After the resistance is fixed well, it has a tolerance of up to 60°(degrees)and can be corrected manually.

iii)

- 3) Tilt the towel rail to ensure that the top collector opening is at its highest point.
- 4) Before filling the radiator with heating fluid, make sure that the "radiator - heater" connection is tight.
- 5) Position the controller so that it faces you or to the side.
- 6) The towel warmer should never rest on the heating element controller or any part of its connection!
- 7) Tilt the towel and fill the towel with warming agent.



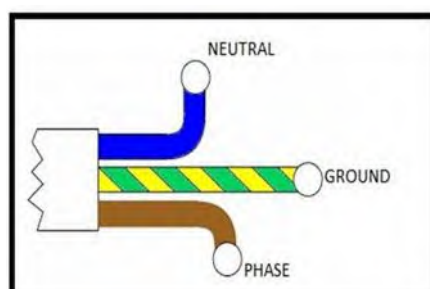
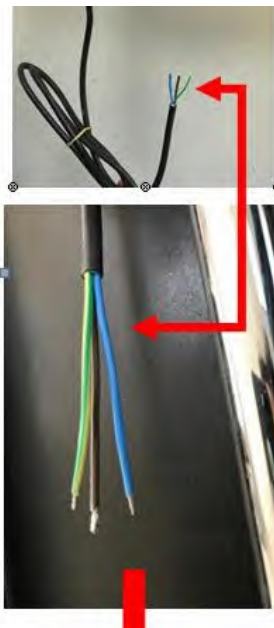
8) Return the towel to the upright position and check the level of the liquid inside.



9) Make sure the connection between the towel warmer and the heating element is tight.

10) Position the controller for easy and convenient access.

11) To connect the device to the mains, the cable colors shown in the figures must be taken into account. When connecting the control unit to the mains, phase, neutral and earth connections must be made carefully.



WARNING! You have must to check the position before start the device. The towel rail must be verticalal positon.

12) Connect the heating element unit to the outlet / plumbing. The device is ready for operation.

13) Set the maximum possible temperature and observe the liquid level rise, excess liquid may overflow from the upper cavity. Clean up excess fluid to prevent the controller from flooding or getting wet.

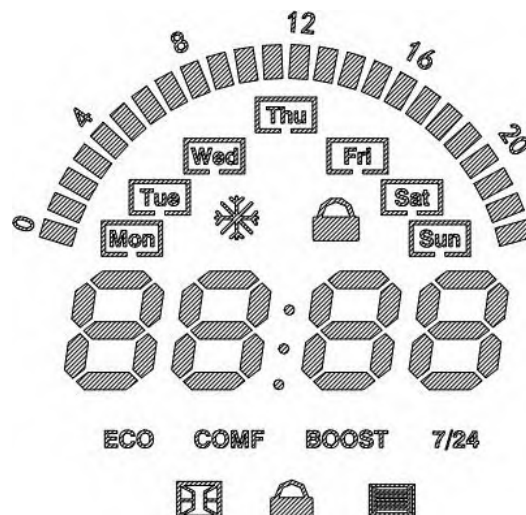
14) When the heating element level stops rising, wait 5 minutes, turn off the heating element unit and turn off the power of the appliance.

15) Do not wait until the towel rail has cooled down and pour a small amount of liquid into the middle of the upper tube.

16) Close the upper opening of the collector with a special gasket and put it back on the wall.

5-MODELS DESCRIPTIONS

A) Weekly Thermostatic Control Unit model is controlled by 4 buttons.



When the device is energized for the first time (plugged in), the device starts on the main screen (in manual mode).

When the buttons are pressed to reach the functions, the lighting is turned on. After a while (30sec), the backlight is turned off to save power.

FUNCTIONS:

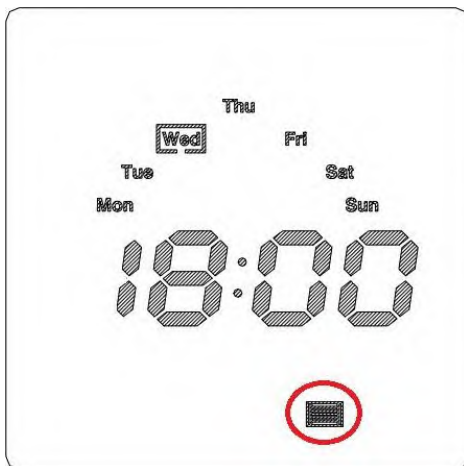
STAND BY MODE



By pressing the Standby / Enter button, the product switches to stand-by mode. When the product is in stand-by mode, if Standby / Enter buttons are pressed again, you can exit stand-by mode.

In stand-by mode, only 'stby' is displayed on the screen.

RESISTANCE OPERATION ICON



If the set temperature is higher than the water temperature, the resistance connected to the product gets hot. If the set temperature is lower than the water temperature, the resistance connected to the product will not heat up. While the resistance is being heated, the resistance symbol on the screen is lit.

The measured temperature value is not displayed on the screen.

TIME ADJUSTMENT

If desired, time adjustment can be made. With pressing standby / enter and up button together, time adjustment made. When entered to time adjustment mode, the second 2 seven segments flash, prompting the user to set the minutes. The user sets the minute with the up and down buttons and confirms by pressing the Standby / Enter button.

Next step is hour adjustment. The first 2 seven segments flash, prompting the user to set the clock. The user sets the time with the up and down buttons and confirms by pressing the Standby / Enter button.

Then it comes to the day setting section. The user chooses the day using up and down buttons. The user confirms by pressing the Standby / Enter button. After selecting the minute, hour and day, the user presses the menu button to exit the setting.

MENU TRANSITIONS

When the device is on, the user can switch between the menus by pressing the menu button. Menu transitions are performed in the following order.

ECO -> COMFORT -> BOOST -> 7/24

MANUAL MODE

Manual mode is active when the user is in the main menu. By using up and down buttons, the set temperature value (10-35 degrees) can be adjusted.

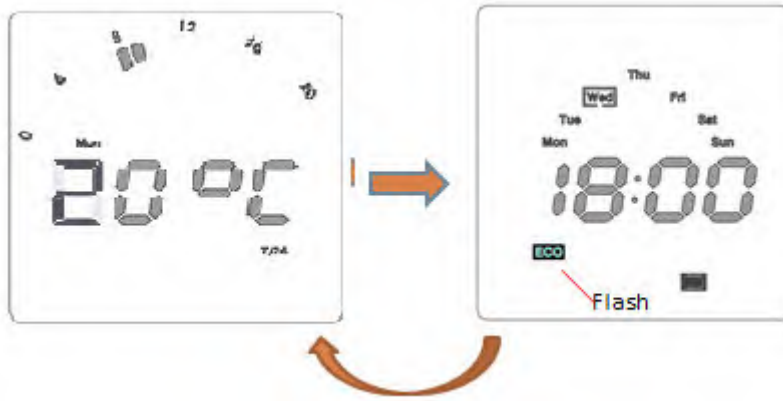
If up or down button is pressed for a long time, the set temperature value will increase or decrease rapidly. The set temperature value and time are displayed on the screen in sequence (one after the other)



ECO MODE

By pressing the menu button once ECO mode can be selected. 'ECO' icon flashes on the screen. In this mode, the set temperature value of the device is set to 20 degrees. The set temperature value and time are displayed on the screen in sequence (one after the other).

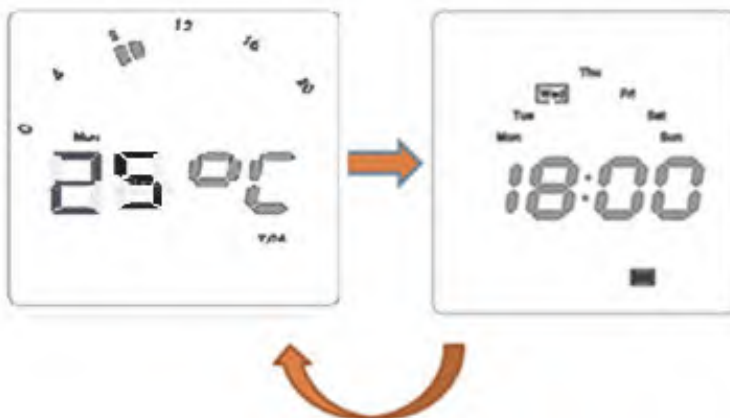
Since this mode is set 20 degrees, the up and down keys are nonfunctional for this mode.



COMFORT MODE

If the user presses the menu button twice while in the main menu, comfort mode is selected. When the mode is selected, the 'COMF' icon flashes on the screen. In this mode, the set temperature value of the device is set to 25 degrees. The set temperature value and time are displayed on the screen in sequence (one after the other)

Since this mode is set 25 degrees, the up and down keys are nonfunctional for this mode.



BOOST MODE

If the user presses the menu button three times, the boost mode is selected. When the mode is entered, the 'BOOST' icon lights up on the screen. In this mode, the set temperature value of the device is fixed at 35 and can be adjusted from half hour to 8 hours for the selected time. The duration can be adjusted starting from 30 minutes up to 8 hours, with the up and down buttons.


The time flashes and the user's approval is awaited. The user confirms the time with the standby / enter button. Afterwards, the BOOST icon will flash for the selected time. And countdown is made from the selected time on the screen.

When boost mode is selected, standby button is used as enter button to make time setting . After the mode is set the button can be used for standby function.

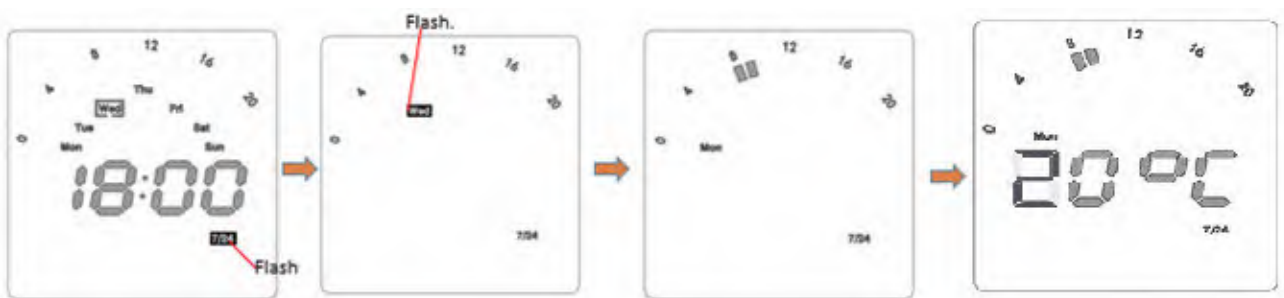


OPEN WINDOW

When there is a sudden temperature drop in the device (15 degrees in 20 minutes), the temperature of the resistance connected to the towel warmer is cut off.

The open window icon  is displayed on the screen.

WEEKLY TIMER (7/24) PROGRAMMING



If the user presses the menu button four times, the weekly program mode is reached. '7/24' icon flashes on the screen, press standby / enter button to select the mode.

The '7/24' icon is illuminated on the screen.

Day adjustment:

The current day of the week flashes on the display. The desired day can be reached with the up or down buttons. The day to be adjusted is selected by pressing the standby / enter button.

Hour adjustment for selected days:

Hour adjustment can be made from 00:00 to 23:00 at one hour intervals. The desired hour can be reached with the up or down buttons. As many hours as desired can be selected in the program. The desired time is selected by pressing the menu button. After the selection is made, the boxes representing that hour are lit at the top of the screen.

In addition, the program can be removed by highlighting it with the up or down buttons and pressing the menu button.

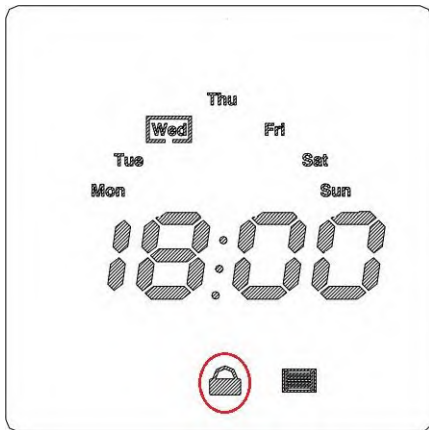
After the desired hours of the day selected in the weekly program are programmed, confirmation is given by pressing the standby / enter button.

Temperature adjustment :

The temperature setting should be made for the selected day. The desired temperature can be selected with the up or down buttons. Press the menu button to confirm. Then press the mode button once to exit the weekly program. In this way, a weekly schedule can be set for 7 days of the week.

CHILD LOCK

Child lock mode is selected by long pressing the up and down buttons. When the mode is selected, the lock icon symbol lights. In this mode, the buttons are disabled. Again, long press the up and down buttons to exit the child lock mode.

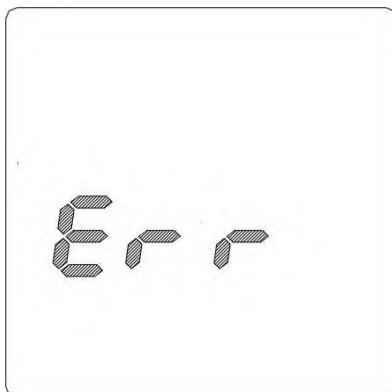


ANTIFREEZE

This mode provides protection against the effects of cold. The device operates at 7 °C. When the temperature is below 7°C antifreeze mode becomes active and ice symbol ❄ is displayed on the screen.

FAILURE MODE


In case of thermostat failure below warning flashes on the screen:



B) On Off Touch Element (ELMOOT)



Heating element unit heats the towel rail that it is installed in.


Button  is used to turn the device on / off. Green led will illuminate when the device is turned on. The light will go off when the device is turned off.

C) Mini Round Thermostatic Control Unit (ELMMRN)



Heating element unit heats the towel rail that it is installed in.

Button  is used to turn the device on / off. Buttons  and  are used to regulate temperature. The values can be seen on the digital screen.

Button  is used to set the time period from 1 to 5 hours.(H1 ,H2,H3, H4, H5 will be displayed on the screen)

When the timer is set ,(from 1 hour to 5 hours) a flashing dot will appear on the display between the two numbers . It shows that the timer is working. To cancel timer select zero (H0).

NOTE – If you set the temperature of the control unit lower than the room temperature, the unit will not operate. The control unit operates when the temperature is set at least 1 degree higher than the room temperature.

Electric Conversion Instructions

The instructions below are to be followed when installing a thermostatic heater element into a filled hydraulic towel rail. The element can be installed into either side of the rail.

1. Remove the towel radiator from the packaging
2. Decide where the rail is to be situated. Make sure you have a minimum of 125mm between the bottom of the rail and the floor.
3. Mark out the position of the support brackets and fix them to the wall.
4. Offer the rail to the brackets to make sure it is completely level.
5. Decide which side the thermostatic element is to be installed to.
6. Turn the rail upside down and remove the plug where the thermostatic element is to be installed
7. Install the thermostatic element making sure the joint is water tight. Under no circumstances must the element be turned by twisting the thermostatic head. The element can be positioned on the large gasket seal only by fitting a spanner to the hex face underneath the chrome head and turning the full unit.
8. Do not stand the rail on the thermostatic element as this may cause serious damage.
9. Install the rail onto the wall brackets.
10. Make the electric connection
11. Open the top air vent, set the temperature to maximum and allow the rail to heat up fully, this may take 45 minutes.
12. Air will escape through the open air vent whilst the heater is achieving its temperature, in some cases if the fluid level is too high this may start to come through the air vent as well. This is quite normal and will ensure the correct expansion gap within the rail.
13. The thermostatic heaters have a temperature range of 20°C - 70°C so any escaped fluid will be hot.
14. When the rail has reached its maximum temperature, close the air vent fully and switch off the thermostatic element.
15. If more fluid is needed due to a cool spot at the top, allow the rail to cool before removing the top plug and adding additional water. Then follow steps 10 -13 again.
16. Allow the rail to cool then switch the thermostatic element back on and bring up to maximum temperature again. Check to make sure the joints are fully water tight.

This work must be carried out by a fully qualified electrician otherwise you will void your guarantee