EcoDesign Thermostatic Element

The EcoDesign Thermostatic Element allows homeowners to easily control the heating schedule and temperature of their electric towel rail. An external sensor monitors the ambient temperature to maintain the desired comfort level.

The element supports ten power ratings, from 100W to 1000W.



- Complies with current legislation for the intended application*
- Complies with current Ecodesign directives*
- CE marked

*The declarations refer to the directives in force on the date of production

Seasonal space heating energy efficiency of electric fixed local space heaters

ηs 47.63%

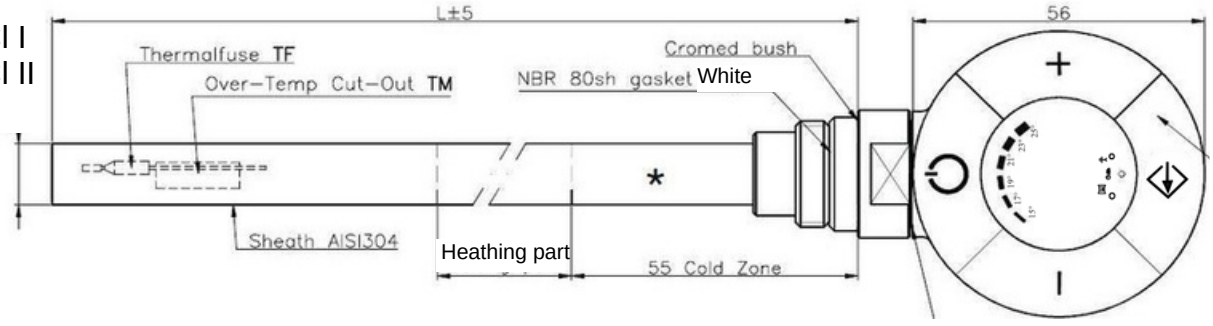
Rev 2.0 15-09-2025

Product	Electronic control for towel radiators Towel
Applications	radiators
Insulation class	Classe I Class II
IP level	IP44
Temperature settings	Digital
Selectable temperature range	15°C ÷ 25°C
Operational temperature	-10°C ÷ 40°C
Maximal power	See table below
Supply voltage	230VAC 50Hz
Size	See figure below
Warranty	2 years
Standards	-EN 60335-1:2012+A11:2014 -EN 60335-2-43:2003+A1:2006+A2:2008 -EN 61000-3-2:2014 -EN61000-3-3:2013 -EN 62233:2008 -EN 55014-1:2006+A1:2009+A2:2011 -EN 55014-2:1997+A1:2001+A2:2008
Approval mark	CE
Case	ABS-VO
Environmental directive	WEEE, RoHS , ECODESIGN 2025
Operative modes	See manual
Connection to mains	3 Cables (neutral, live, earth); Italian plug; Swiss plug: UK plug:; Schuko plug ; 2 Cables (neutral, live,).
Available colours	White (RAL 9016); Chrome.
Max. temperature of the thermalfuse	152°C
ENERGY EFFICIENCY (2025)	47,63%

Power from 60W to 1000W meets ECODESIGN 2025 directive

Power	W	100	200	250	300	400	500	600	700	750	800	900	1000
Max temperature CL I	°C	80	80	80	90	90	90	90	90	90	90	100	100
L (heating element)Class I	mm	350	350	370	370	430	450	560	630	700	700	760	830
Max temperature CL II	°C	90	90	90	90	90	90	90	90	90	100	100	100
L (heating element) Class II	mm	350	350	350	350	370	410	465	520	560	600	670	730

12mm Cl I
14mm Cl II



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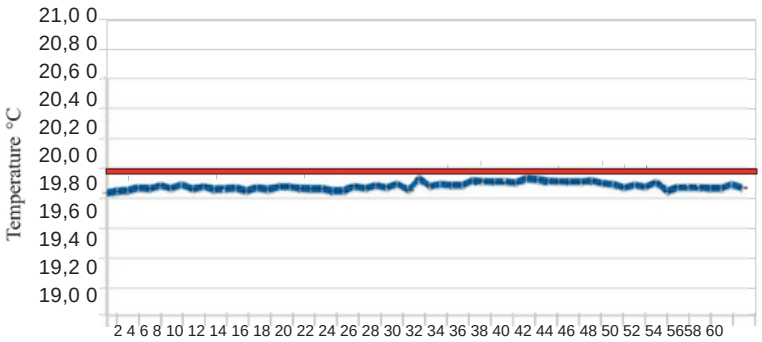
Example of automatic temperature control performed by the EcoDesign (configured temperature: 20°C and a cold wall with a temperature of-5°C).



DM= maximal drift = 0.06
AM= Tmax – Tmin = 0.12
CA= 0.075

$$CA \frac{\frac{DM}{2} AM}{2}$$

WARNING
RISK OF ELECTRIC SHOCK!
Disconnect power supply before proceeding with installation.

Read these instructions carefully before using the device and retain them for future reference.

- The EcoDesign Thermostatic Element has been designed for exclusive use on a towel radiator.
- The thermostat is designed for heating the liquid contained inside a towel radiator in combination with a heating element. Any other use is forbidden.
- Before using, carefully ensure that the line voltage is the same as that specified for the device (see technical specifications).
- Only use heating elements that are compatible with the towel radiator.
- Disconnect power supply before cleaning or before performing maintenance of the product.
- In case of damage of the power supply cable shut down the device and do not tamper with it. The damaged power supply cables can be replaced exclusively by the manufacturer or by an authorized service center. Failure to comply with the above rules could lead to compromised system safety and void the warranty.
- Store and transport the heating element exclusively in the protecting packaging.
- Replacement of the heating element can be done exclusively by the manufacturer.
- Children under 8 years of age and people with reduced physical, sensory or mental capabilities should only use the device under appropriate supervision. Children must not play with the device.
- Cleaning and user maintenance must not be carried out by children without supervision.

Installation guide

For authorised installers only

Disconnect the device from power supply before proceeding with installation. Protect the device with a 30mA RCD circuit breaker.

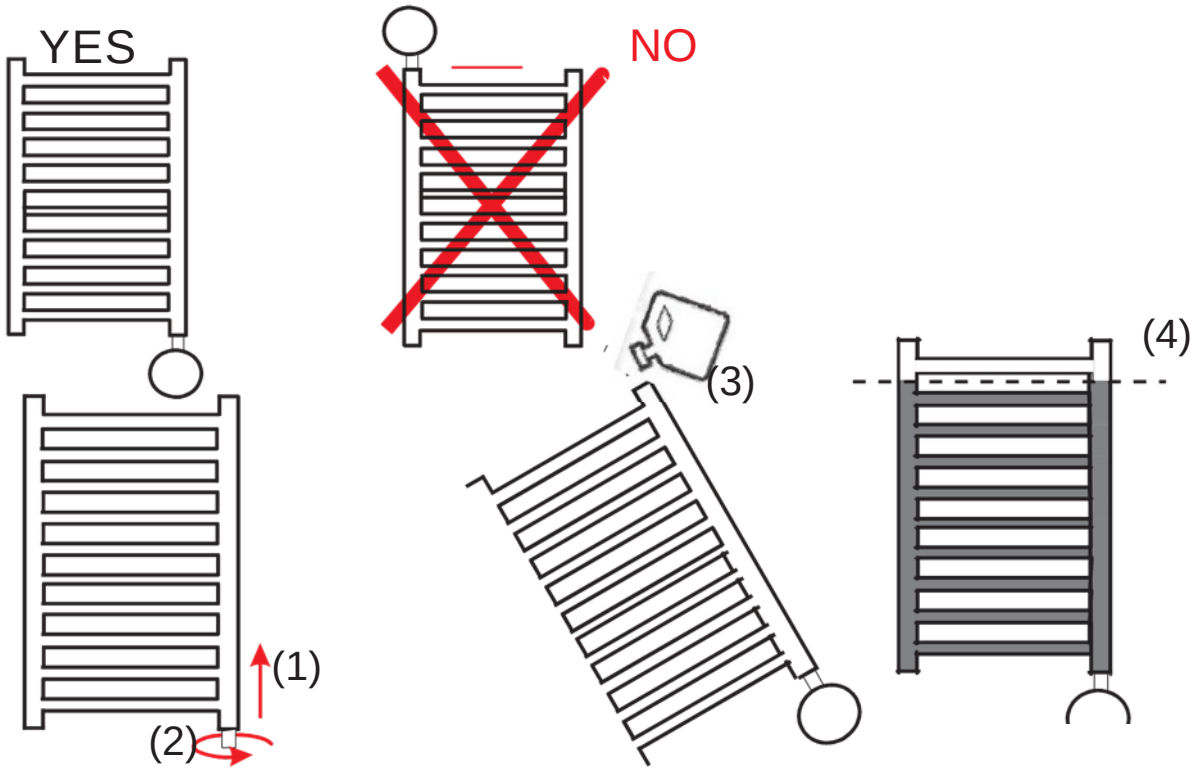
1. Insert the heating element in the threaded opening located on the bottom part of the radiator.
2. Securely fasten the electric resistance to the body of the towel radiator with a 22mm wrench.
3. The special sheath ensures a secure mounting and eventually allows a slight supplemental torsion to perfectly align the thermostat with the radiator.
4. Tilt the radiator as in fig. 3, making sure that the opening on top of the radiator is located on the hig hest side. WARNING. Do not lean the radiator on the electronic control!
5. Fill the radiator with the specified fluid.
6. Put the radiator back in vertical position and check the internal level of the liqui d (fig. 4).
7. Ensure a proper fastening of the heating element in the radiator.
8. Connect the device to mains and start heating (the top opening of the radiator must remain open!).
9. Set the maximal temperature and check the level of the internal liquid.

- Due to thermal expansion the liquid could brim over the radiator.
- Remove the exceeding liquid (do it with care to avoid burns!) in order to keep the thermostat dry and avoid liquid reaching the border

10. When the fluid level has stabilised, continue heating for 5 minutes before switching off the heat.
11. If necessary, top up the radiator before the liquid cools down

- Keep the temperature of the internal liquid under control.

12. Close the top opening of the radiator with the appropriate cap.
13. Secure the radiator to the wall.
14. Connect the device to the mains. For models having no plug it is necessary to install a suitable omnipolar disconnection switch ensuring complete disconnection in case of category III overvoltage (that means a switch with at least 3 mm of space between open contacts).



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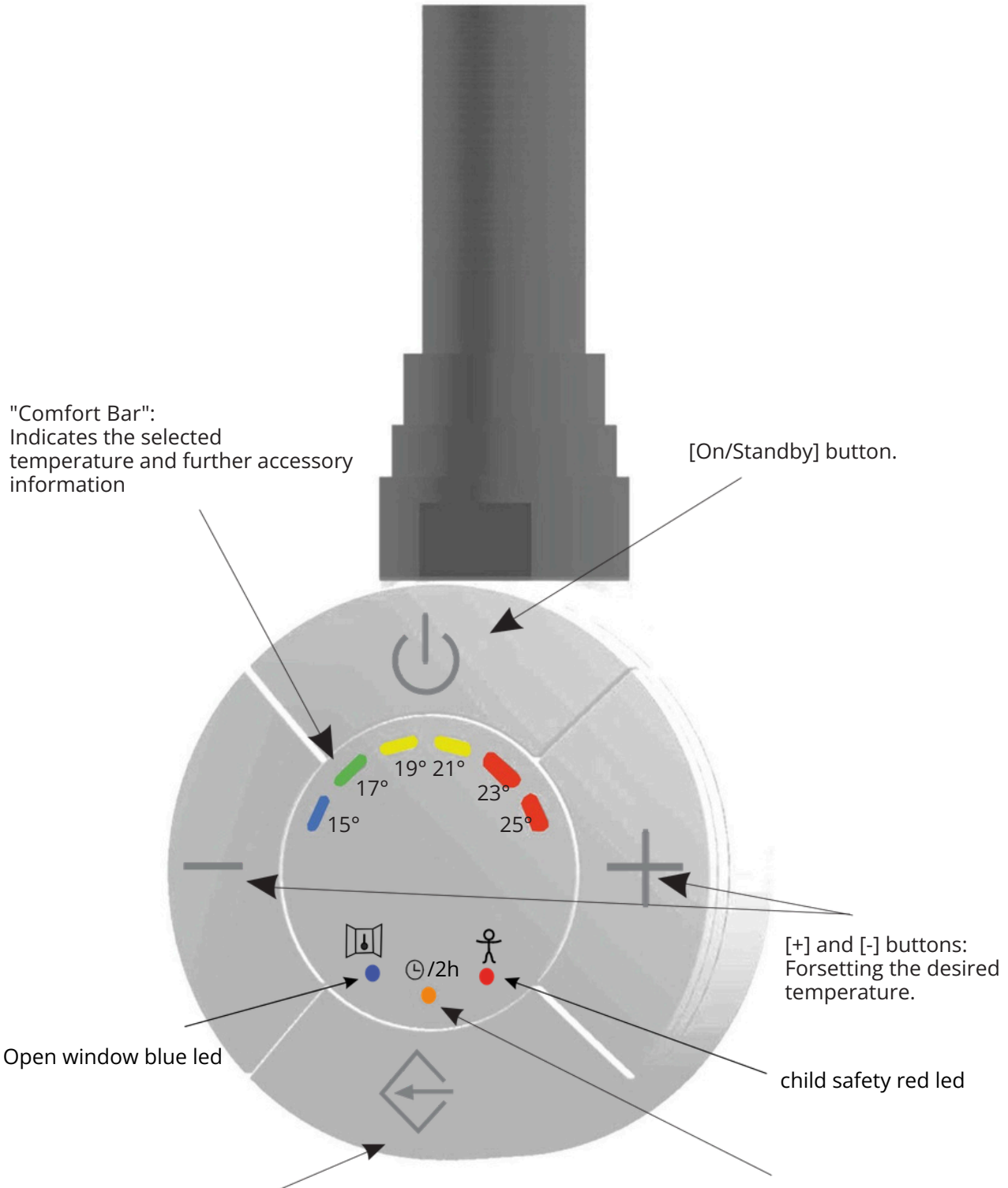
User guide



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Comfort mode:

This mode will start as soon as the thermostat is switched on. The temperature range of this mode is:

15°



16°



17°



18°



19°

20°



21°



22°



23°



24°



25°



27°



The last led will blink.

When the last temperature led is blinking, it means that the maximum temperature (27°) has been selected.

To increase the temperature, press the [+] button.
To decrease the temperature, press the [-] button

Note: If the device will register a temperature higher than 35°, the thermostat will switch off.

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Boost mode

Press the [Mode] button once to activate this operative mode.You will hear a «beep» sound and the boost mode will start. This mode activates the heating element to the maximum power for 2hrs (for safety reasons the maximal temperature is limited to 27°C). The device will go into standby mode once the boost ends.

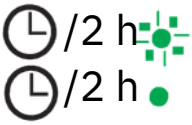
To exit the “Boost” mode press the [Mode] button.



“Boost” mode indication: "Boost/Timer" LED has red color and it blinks. The last red led on the upper led bar will also blink.

Timer 24 mode

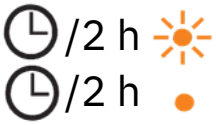
Press the [Mode] button for 3 seconds to activate this mode. When you hear a second «beep» sound you’ll need to release the button. The control system activates the “Comfort“ mode for 2 hours, after that it goes into “Eco” mode and after 22 hours the “Comfort” mode is started again for 2 hours. This sequence will repeat endlessly.
To exit the “Timer24” mode press the [Mode] button.
NOTE: During the first cycle the duration of the “Eco” mode is of 21 hours.



During 2hrs “Comfort”: “Boost/Timer” LED blinking green.
During 22hrs “Eco”: “Boost/Timer” LED permanent green.

Timer 12 mode

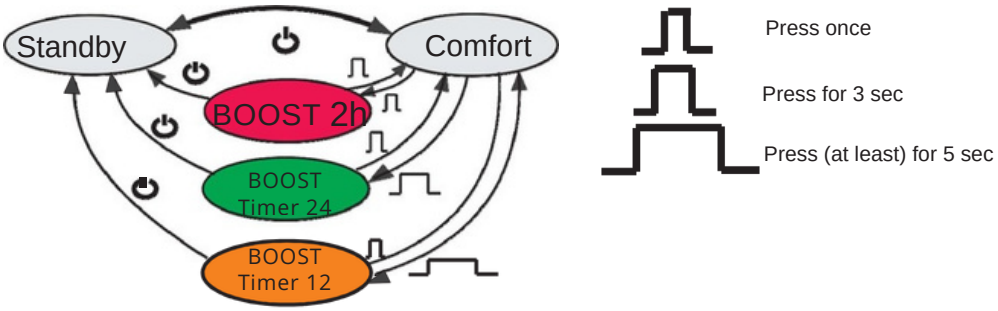
Press the [Mode] button for more than 5 seconds to activate it. The control system activates the “Comfort” mode for 2 hours, after that it returns into “Comfort” mode and after 10 hours the “Eco” mode is started again for 2 hours. This sequence will repeat endlessly.
To exit the “Timer 12” mode press the [Mode] button.
NOTE: During the first cycle the duration of the “Comfort” mode is of 9 hours.



During 2hrs “Comfort”: “Boost/Timer” LED blinking amber During 10hrs “Eco”: “Boost/Timer” LED permanent amber.

In both “Timer24” and “Timer12”, you can set a custom Comfort temperature and Eco temperature.

Setting the custom comfort temperature: while the device is in its comfort phase, press the + and - buttons to adjust the temperature. The setting will be saved and automatically applied to future cycles.
Setting the custom Eco temperature: while the device is in its eco phase, press the + and - buttons to adjust the temperature. The setting will be saved and automatically applied to future cycles.
Note: By default, the Eco temperature will be Comfort temperature - 1 step (for example comfort = 19, eco = 15)



To turn off «Boost» «Timer 12» and «Timer 24» you can:

Press the [ON/Standby] button once to enter standby mode. After the device has been turned on again, it will restart into comfort mode. Press the [Mode] button once to return into comfort mode.

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Power Control mode

While in comfort mode, press the [+] key for 3 seconds.

You will enter power control mode.

In this mode you can set a percentage power for the thermostat, ranging from 15%, 30%, 45%, 60%, 75%, 90%. When a mode is set, the corresponding leds will blink (see table below).

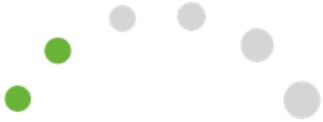
The device will heat following this mode's instructions until the it is put on standby mode.

To increase the power, press the [+] button.

To decrease the power, press the [-] button



15% power



30% power



45% power



60% power



75% power



90% power

Note: If the device will register a temperature higher than 35°, the thermostat will switch off.

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Open window mode



This mode will detect if any window has been opened in the room. If so, the device will not let the room go under 7°C.

To activate it: In standby mode: press on. [+] button for 3 seconds. The device will beep twice and the blue led will turn

To deactivate it: In standby mode: press turn off. [+] button for 3 seconds. The device will beep four times and the blue led will

When the device detects an open window, the blue led will start blinking.

To interrupt the device while it has detected an open window, simply turn it off and on again.

Child Safety



This mode keeps the radiator at a low temperature to prevent burns if touched by children.

To activate it:

In standby mode: press [-] button for 3 seconds. The device will beep twice and the red led will turn on.

To deactivate it:

In standby mode: press [-] button for 3 seconds. The device will beep four times and the red led will turn off.

Notes. In case of interruption of power supply, the system will recover from the previous operative mode*, with the exception of "Boost" and "Timer" modes.

*The status of the device is saved 5 seconds after the modification.

Repairs carried out by unauthorised personnel invalidate warranty.

The manufacturer reserves the right to make any changes to the product described in this manual, at any time, and without prior warning.

Disposal and Recycling



This product must not be disposed of with general household waste. At the end of its useful life, it should be taken to an appropriate collection facility for the recycling of electrical and electronic equipment.

Where applicable, the product may also be returned to the distributor when it is replaced.

Correct disposal helps protect the environment, conserve natural resources and ensure that electrical and electronic equipment is recycled responsibly.

This product must be collected separately from household waste and disposed of in accordance with applicable Waste Electrical and Electronic Equipment (WEEE) regulations.

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