THECO-A+

DIGITAL CONTROLLER ECODESIGN COMPLIANT FOR ELECTRIC TOWEL RAIL

Digital panel with white backlight, programming integrated, opened window detection, gauge and power consumption indication in kWh, IR receiver for optional remote control

ECOdesign 2018 compliant

Optional IR remote control

Overview

Main features

- **Ambient temperature control**
- **Temperature setting**
- **Power On / Standby**
- **Operating modes selection**
- **Quick heating of the bathroom using the instant Boost**
- **Integrated programming or can be programmed remotely using a 6-order pilot wire**

Application

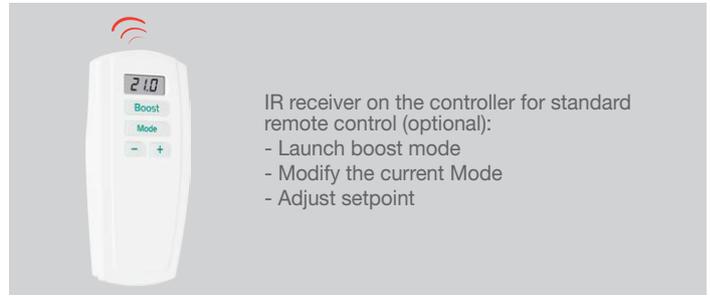- **Electric towel rail**

Benefits

- **Sober and simple style:** the controller fits in harmoniously with the towel rail style
- **Excellent ergonomic settings :** tilted interface with large and spaced buttons
- **Large display with white backlight:** easy to read
- **"Smart" electronic control:** this means stable and accurate temperature in the bathroom all year round
- **Energy consumption gauge and power consumption indication**
- **Integrated temperature sensor, which cannot be accessed from the outside:** the product is more resistant during installation

Functional specifications

Use

Power On / standby	A dedicated button allows the appliance to be on standby
Temperature setting	**Preset at 19°C**, adjustable from +7°C to+30°C
Operating modes	Auto (Programming), Boost, Comfort, Eco (Economy), Frost protection, Standby mode
Boost	Adjustable between 10 and 90 minutes in 5 minutes intervals rises the heat of the bathroom and enables quick drying of clothes or wet towels.
Energy consumption gauge	Automatic indication of the level of energy consumption according to the setting temperature
Power consumption indication in kWh	Posting of the estimated amount of energy consumed in kWh since the last 24 hours or since the last reset to 0 of the energy meter
Opened window detection	Automatic switching to Frost protection mode when a significant drop in temperature is detected
Programming	- 5 different preset program profiles for each day of the week : P1, P2, P3, non-stop Comfort mode, non-stop Eco (economy) mode - P1, P2, P3 programmes can be customised - Manual and temporary overriding of a programme
Help for the visually impaired	- **The button power on/standby mode is in relief** to be easily identifiable to the touch - **Audible beeps** indicating the change from the standby mode to active mode

Safety	- **Child anti-tamper :** keypad locking
	- **Setting safety :**
	  - Min. and Max limits of the adjustment range of the Comfort setting temperature
	  - Customizable PIN code locking (prevents access to the Comfort mode, installer and expert settings)
	- **Backup in case the mains power supply goes off :**
	  - The whole of settings and programming : permanent backup
	  - Current time and date : backup time of 3 hrs typical
	- **Overheating protection** of the ambient temperature during the Boost mode
	- **Integrated dewatering system:** in normal use, it reduces the risk of having an accumulation of water inside the housing (enhanced user safety)

IR receiver on the controller for standard remote control (optional):
- Launch boost mode
- Modify the current Mode
- Adjust setpoint

3 levels of settings	User, Installer, Expert

Installation

Compatible with the majority of heater elements

Controller assembly directly on the towel rail

Connection to the heating electric cartridge by faston

Sealing: supplied o'ring to be fitted on the heating cartridge

User settings

Backlighting	**2 settings:** - **Temporary backlighting (default setting):** backlight of the screen when a button is pressed - **Non-stop backlighting:** backlight of the screen all the time
Eco mode temperature lowering level	**Preset at -3,5°C,** adjustable from -1°C to -8°C
Frost protection temperature	**Preset at +7°C,** adjustable from +5°C to +15°C
Min. setpoint temperature	**Preset at +7°C,** adjustable from +7°C to +15°C
Max. setpoint temperature	**Preset at +30°C,** adjustable from +19°C to +30°C
Maximum duration of authorised Boost	**60 minutes by default,** adjustable from 30 to 90 minutes
Max. ambient temperature for the automatic stop of the Boost	**Preset at +39°C,** adjustable from +25°C to +39°C
Reset: return to the factory user settings	

Installer settings

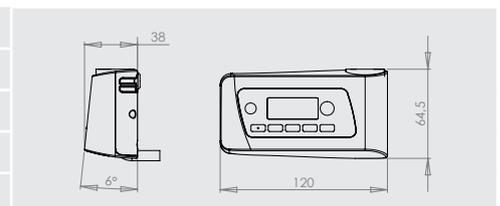|	
Automatic window-opening detection	**Enabled by default,** can be disabled
PIN code locking	**Disabled by default,** can be enabled - Lock all controls except Boost
Reset: return to the factory user and installer settings	

Expert settings

Temperature adjustment	Ambient temperature sensor adjustment
Power	Choice of the towel rail power when it is equiped with an electric cartridge
Reset: return to the factory user, installer and expert settings	

Technical specifications

Dimensional and finish specifications

Height	64,5 mm
Width	120 mm
Depth	38 mm
Color	White RAL 9016 - Grey RAL 9006
Net weight	0,3 Kg

Power supply

Operating voltage	230V +/-10% 50Hz
Maximum power	1500 W, resistive load
Power cord	800 mm, 3 conductors

Control

Control type	Electronic PID (Proportional Integral Derivative) control, triggered by a relay + triac

Model without IR receiver

Environment

Protection rating	IP44 after installation under the responsability of the integrator
Class	Class II, after installation under the responsability of the integrator
Operating temperature	0°C to +50°C
Temperature setting range	+7°C to +30°C
Storage temperature	-20°C to +70°C
NTC electronic temperature sensor	

Applicable directives

EMC	2014/30/EU
LVD	2014/35/EU
RoHS	2011/65/EU

Applicable standards

EMC	EN55014-1 ; EN55014-2 ; EN61000-3-2 ; EN61000-3-3
LVD	EN60335-1 ; EN60335-2-30 ; EN60335-2-43 ; EN62233
RoHS	EN50581
Manufacturing	On certified site ISO 9001 V2008

Product codes

Codes	Description
BXGTHART2PA	Digital weekly programmable controller for electric towel-rails, white, CLII with 6-order pilot wire and IR receiver
BXGTHART2PGA	Digital weekly programmable controller for electric towel rail, grey, CLII with 6-order pilot wire and IR receiver
BXGTHART1A	Digital weekly programmable controller for electric towel rails, white, CLI with 90° shuko plug and IR receiver
BXGTHART1GA	Digital weekly programmable controller for electric towel rails, grey, CLI with 90° shuko plug and IR receiver

Product customization (style, features) possible on request. SKUs may change depending on optional features requested. Please contact us.