THECO-A

DIGITAL CONTROLLER ECODESIGN COMPLIANT FOR ELECTRIC TOWEL RAIL
Digital panel, programming integrated, opened window detection, gauge and power consumption indication in kWh

ECOdesign 2018 compliant

Overview

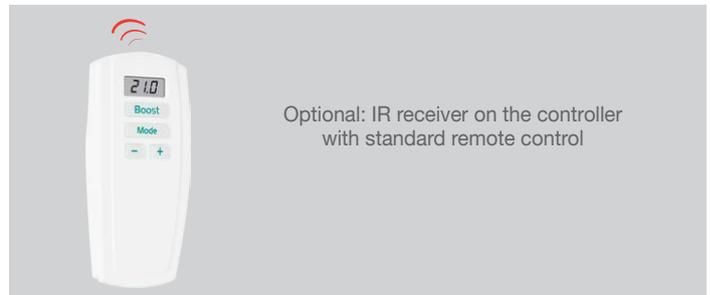| Main features	Application
- **Ambient temperature control** - **Temperature setting** - **Power On / Standby** - **Operating modes selection** - **Quick heating of the bathroom using the instant Boost** - **Integrated programming**	- **Electric towel rail**

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:** easy to read
- **"Smart" electronic control:** 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), 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)
	- **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)

3 levels of settings	User, Installer, Expert

Model with IR receiver

Optional: IR receiver on the controller with standard remote control

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

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 - Grey	
Net weight	0,3 Kg	

Power supply

Operating voltage	230V +/-10% 50Hz
Maximum power	1500W, resistive load
Power cord	800 mm, 2 conductors

Control

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

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	Descriptions
BXGTHAR2A	Digital weekly programmable controller for electric towel-rail, white, CLII
BXGTHAR2GA	Digital weekly programmable controller for electric towel rail, grey, CLII

Options

Infrared receiver for remote control - Class I with shuko plug
Infrared receiver for remote control - Class II with pilot wire

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

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IMHOTEP ® ZI Montplaisir - 258 Rue du Champ de Courses - 38780 Pont-Evêque - France - Tél. : +33 (0)4 74 58 39 56 - Fax : +33 (0)4 74 58 39 57 - contact@imhotepcreation.com - www.imhotepcreation.com
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