**THE1**

# CUSTOMIZABLE CONTROL UNIT FOR AN ELECTRIC TOWEL HEATERS
Analog control with Boost feature

## Overview

### Main features

- Room temperature control
- Desired temperature setting
- Quick heating of your bathroom using the Boost feature
- Remote programming by means of a 6-order pilot wire

### Application

- Electric towel heaters with heat-transfer fluid

### Product + points

- **Customizable front cover**
- **Easier packing :** 30 mm thickness, makes the packaging of the towel heaters easier
- **An incorporated temperature sensor, which cannot be accessed from the outside:** the product is more resistant when you're installing it
- **Robust:** the triac and the relay zero crossing switching system optimize product life time
- **High-precision electronic PID (Proportional Integrated Derivative) temperature regulation**
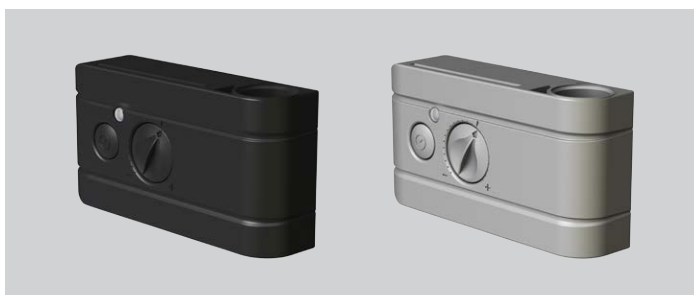
# Functional specifications

## Use

| Heating on/off | |
|---|---|
| **Desired temperature** | Adjustable from +7°C to +30°C with visible comfort range (approximately 21°C) |
| **Boost feature** | Temperature is set to the maximum limit during 2 hours |
| **Safety** | - **Room overheating** is prevented in Boost mode<br>- **Internal protection against overheating faults by thermofuse**<br>- **Protection mode activated** in case of faulty detection<br>- **Settings are saved by means of EEPROM** in the event of a power supply voltage outage |
| **Pilot lights** | Viewing of resistance engaged, voltage presence, boost running and protection mode running |

## Installation

| | |
|---|---|
| Compatible with all types of electric heating bodies | |
| The control unit can be connected quickly and easily to a mains power supply using the faston lugs | |
| **Sealing** | Joint to be fit to the supplied cartridge heater |

Examples of customized front covers

# Technical specifications

## Dimensional and finish specifications

| Height | 66 mm | | |
|---|---|---|---|
| Width | 130 mm | | |
| Depth | 30 mm | | |
| Color | White | Grey | Black |
| Net weight | 0.2 Kg | | |

## Power supply

| Operating voltage | 230V +/-10% 50Hz (120V +/- 10%, 60 Hz for BXATHE01USLC model) |
|---|---|
| Maximum power | 2000W, resistive load (1200 W for BXATHE01USLC model) |
| Power cord | 800mm (for BXATHE01USLC model) |

## Control

| Control type | PID |
|---|---|

## Environment

| Protection rating | IP44 after installation under the responsability of the integrator |
|---|---|
| Class | Class II, after installation under the responsability of the integrator (Classe  I for BXATHE01USLC model) |
| Operating temperature | 0°C to +50°C |
| Desired temperature setting | From +7°C to +30°C approx. |
| Storage temperature | -20°C to +70°C |
| NTC temperature sensor electronics | |

## Applicable guidelines

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

## Applicable standards

| EMC | EN55014-1 ; EN55014-2 ; EN61000-3-2 ; EN61000-3-4 |
|---|---|
| LVD | EN60335-1 ; EN60335-2-30 ; EN60335-2-43 ; EN62333 |
| RoHS | EN50581 |
| Manufacturing | On certified site ISO 9001 V2008 |

# Product codes

| Codes | References |
|---|---|
| BXATHE1A2LC | White analogue controller for towel rails, Class II, without pilot wire and power cord 800mm, 2 knobs |
| BXATHE1A2PLC | White analogue controller for towel rails, Class II, with pilot wire and power cord 800mm, 2 knobs |
| BXBTHE1A2PLC | Grey analogue controller for towel rails, Class II, with pilot wire and power cord 800mm, 2 knobs |
| BXBTHE1A2BPLC | Grey analogue controller for towel rails, Class II, with pilot wire and power cord 800mm, 2 knobs |
| BXATHE1A1USLC | White analogue controller for towel rails, Class I, without pilot wire and power cord US version, 2 knobs |

## Compatible product(s) (sold separately)

| Codes | References |
|---|---|
| ACAFCTHE1C | White decorative plate for THE01 |
| ACAFCTHE1GC | Grey decorative plate for THE01 |

**Product customization (design features) possible. Please contact us.**