# PH5PIR

# SMART COLUMN CONTROLLER ECODESIGN COMPLIANT FOR ELECTRIC RADIATOR WITH FLUID INERTIA

Digital control panel on the top of the column, back-lit screen, auto-programmable with self-learning process and dual optimization feature, occupancy detection, opened window detection, gauge and power consumption indication in kWh

## Overview

### Main features

- Ambient temperature control
- Desired temperature setting
- Power On / Standby
- Operating modes selection
- Automatic and self-learning programming, customized integrated programming or can be programmed remotely using the 6-order pilot wire

### Application

- Electric radiator with fluid inertia

### Benefits

- **Sober and simple style:** the top fits in harmoniously with the column style
- **Ergonomic settings:** the controls are located on the top of the column and are protected by a see-through cover
- **Back-lit screen:** easy to read
- **"Smart" electronic controller:** this means stable and accurate temperature in the room all year round
- **Energy Saving Pack: comfort, performance, energy savings**
- **Auto-programming:** automatic programming by self-learning of the lifestyle
- **Active memory:** Clock and settings are saved by EEPROM in case the mains power supply goes off

## Functional specifications

### Use

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|---|---|
| **Desired temperature setting** | Preset at 19°C, adjustable from +7°C to +30°C |
| **Operating mode** | Auto (Programming), Comfort, Eco (Economy), Frost protection, Standby mode |
| **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 reset to 0 of the energy meter |
| **Opened window detection** | Automatic switching to Frost protection mode when a significant drop in temperature is detected |
| **Window airing feature** | Manual window airing can be enables at any time |
| **Occupancy detection** | During an unoccupied period, the setting temperature is automatically and progressively decreased |
| **Auto-programming** | As soon as the device is switched on and without any initial adjustment, the device is in learning mode to understand and memorize the user's lifestyle. The integrated smart algorithm is going to analyze this information in real time in order to optimize and adapt the programme for the coming weeks |
| **7 day and daily programme** | **Five different pre-set program profiles for each day of the week:** P1, P2, P3, non-stop Comfort Mode, non-stop Eco (Mode)<br>P1, P2 and P3 modes can be customised<br>Manual and temporary overriding of a programme. |
| **Dual optimization feature** | Depending on different parameters of the room, the controller calculates and optimizes the programming of Comfort and economy periods (Eco) according to the choice of the user; **Eco oriented**, priority to savings or **Comfort oriented**, priority to comfort |
| **Help for the visually impaired** | **- The button power on/standby mode is in relief** to be easily identifiable to the touch<br>**- Audible beeps** indicating the change from the Standby mode to active mode |
| **Safety** | **- Child anti-tamper:** keypad locking<br>**- Settings safety:**<br>- Min. and Max. limits of the adjustment range of the Comfort setting temperature<br>- Customizable PIN code locking (prevents access to the Comfort mode, advanced and expert settings)<br>**- Backup in case the mains power supply goes off :**<br>- The whole of settings and programming : permanent backup<br>- Current time and date : backup time of 3hrs typical<br>**- Internal protection against any overheating** |

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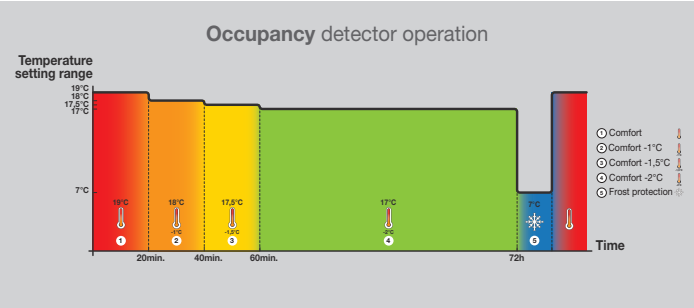


## Installation

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| **Column holder supplied,** to be mounted directly on the radiator<br>**Easy to install:** Waiting position when mounting column to facilitate the connexion to the electric cartridge |
| Connection to the heating electric cartridge by faston |

## Advanced settings

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| **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 |
| **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 |
| **Occupancy detection** | **Enabled by default,** can be disabled |
| **Automatic window-opening detection** | **Enabled by default,** can be disabled |
| **Dual optimization feature** | **Comfort oriented by default,** Eco oriented or can be disabled |
| **Backlighting** | **3 settings:**<br>**- Temporary backlighting 1 (default setting):** backlight of the screen when a button is pressed or during occupancy detection<br>**- Temporary backlighting 2:** backlight of the screen when a button is pressed<br>**- Non-stop backlighting:** backlight of the screen all the time |
| **PIN code locking** | Initialization - Customization - Activation and deactivation |

## Expert settings

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| **Temperature adjustment** | Ambient temperature sensor adjustment |

# Technical specifications

## Dimensional and finish specifications

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| **Height** | 580 mm |
| **Width** | 76 mm |
| **Depth** | 96 mm, 80 mm |
| **Color** | White RAL 9016 |
| **Net weight** | 1,84 Kg |

## Power supply

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| **Operating voltage** | 230V AC+/-10% 50Hz |
| **Maximum power** | 2000W resistive load |
| **Power cord** | 900mm: 3 conductors |

## Control

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| **Control type** | Electronic PID (Proportional Integral Derivative), triggered by a triac |

## Environment

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| **Protection rating** | IP24 after installation under the responsability of an integrator |
| **Class** | Class II after installation under the responsability of an integrator |
| **Operating temperature** | 0°C to +60°C |
| **Temperature setting range** | +7°C to +30°C |
| **Storage temperature** | -20°C to +70°C |
| **Programming** | 5 programming profiles |
| **NTC electronic temperature sensor** | |

## Applicable directives

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

## Applicable standards

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

# Product codes

| Codes | Descriptions |
|---|---|
| **COAPH5ID2PPKD** | Digital auto-programmable right-hand column, occupancy detection, white, for radiator with fluid inertia, CLII, 96mm, 6-orders pilot wire |
| **COCPH5ID2PPD** | Digital auto-programmable right-hand column, occupancy detection, white, for radiator with fluid inertia, CLII, 80mm, 6-orders pilot wire |

*Decorative left-hand column available on request.*



**Product customization (style, features) possible on request. Please contact us.**



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