



PH18PIR



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
- **Backlit screen:** easy to read
- **"Smart" electronic control:** 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

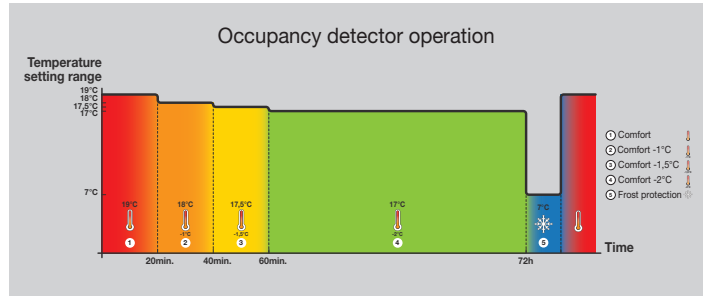
ECOdesign 2018
compliant

Functional specifications

Use



Desired temperature setting	Preset at 19°C, adjustable from +7°C to +30°C
Operating modes	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 enabled 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 (economy) Mode Mode P1, P2 and P3 can be customised 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 - Audible beeps indicating the change from the standby mode to active mode
Safety	- Child anti-tamper keypad locking - Settings safety: - Min. and Max limits of the adjustment range of the Comfort setting temperature - Customizable PIN code locking (prevents access to the Comfort mode, advanced and expert settings)



Safety

- **Backup in case the mains power supply goes off :**
 - The whole of settings and programming : permanent backup
 - Current time and date : backup time of 16hrs typical
- **Internal protection against any overheating**

Installation

Column holder supplied, to be mounted directly on the radiator

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

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: - Temporary backlighting 1 (default setting): backlight of the screen when a button is pressed or during occupancy detection - Temporary backlighting 2: backlight of the screen when a button is pressed - Non-stop backlighting: backlight of the screen all the time
PIN code locking	Initialization - Customization - Activation and deactivation

Expert settings

Temperature adjustment	Ambient temperature sensor adjustment
-------------------------------	---------------------------------------

Technical specifications

Dimensional and finish specifications

Height	580 mm
Width	76 mm
Depth	80 mm
Color	White RAL 9016
Net weight	1,4 Kg

Power supply

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

Control

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

Environment

Protection rating	IP24 after installation under the responsibility of an integrator
Class	Class II after installation under the responsibility 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

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 ; EN62233
RoHS	EN50581
Manufacturing	On certified site ISO 9001 V2008

Product code

Code	Description
COCRMPH18IND	Digital auto-programmable right-hand column, occupancy detection, white, for radiator with fluid inertia, Class II, 80mm, 6-orders pilot wire

Decorative left-hand column available on request.

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