SLIM BLOWER HYDRO PIR

SMART BLOWER WITH HOT AIR FLOW EXTRA-SLIM STYLE, ECODESIGN COMPLIANT FOR HYDRAULIC TOWEL RAIL

Very thin controller with integrated blower, digital controls, auto-programmable with self-learning process, occupancy detection, opened window detection, power consumption indication in kWh, wireless remote control (optional)

Overview

Main features

- Ambient temperature control
- Temperature setting
- Power On / Standby
- Operating modes selection
- Quick heating of the bathroom using the instant Boost
- Automatic and self-learning programming, customized integrated programming

Application

- Hydraulic towel rail

Benefits

- **Ultra-discreet :** Once integrated, the controller at the back of the heating body is aesthetically invisible
- **Adaptability :** can be mounted on hydraulic device, and fits with different shapes of heating body, scale profile
- **Excellent ergonomic settings**
- **"Smart" electronic control :** this means stable and accurate temperature in the bathroom all year round
- **Energy Saving Pack**
- **Auto-programming :** automatic programming by self-learning of the lifestyle by starting boost period
- **Automatic Boost:** additional instantaneous heating, the hot air blower enables automatic and swift room temperature increase at each Comfort period start.
- **80 mm thickness behind the towel rail :** makes the packaging of towel rails easier and fits perfectly into small bathrooms
- **Active memory:** clock and settings are saved by EEPROM in case the mains power supply goes off

PATENTED INNOVATION EUROPE PATENT PATENTED INNOVATION

ECOdesign 2018 compliant

Optional RF remote control

Functional specifications

Use	
Power On / Standby	A switch allows the appliance to be on standby
Comfort temperature setting	**Preset to +19°C,** adjustable from +16°C to +19°C
Eco temperature setting	**Preset to +15°C,** adjustable from +12°C to +15°C
Operating modes	Auto (programming), Comfort, Eco, Boost, Frost protection, Standby
Boost	Adjustable between 10 and 90 minutes in 5 minutes intervals: to rise quickly the temperature and turn on the blower for a time period requested
Boost duration gauge	Automatic indication of the level of preset boost period duration
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 sgnificant 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
Programming	- An automatic boost cycle is launched at each Comfort period start time. - 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

Examples
of mounting

Wireless remote control (optional)

Safety	**- Child anti-tamper:** keypad locking **- Settings safety:** 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 3hrs typical **- Anti-obstruction safety:** prevents the unvoluntary air flow obturations (filter and ventilation grid) shutting down/switching off the blower **- Overheating protection** of the ambient temperature during the Boost mode **- Internal protection against any overheating**
Tangencial turbine blower insuring a low noise level with anti vibration device, adjustable fins upwardly	
Removable anti-dust filter	Cleanable, removable by both sides without drop off the blower
Post-ventilation	In order to preserve and improve the lifetime of the device, a post-ventilation cycle is performed after each boost period to quickly decrease the internal temperature
3 levels of settings	User, Installer, Expert

Installation

Adaptability	Module adaptable to the majority of towel rails available on the market, straight, flat or curved tubes, 2 solutions for fixing the module to the heating body: - Towel rails with straight or curved tubes: 2 x wall-mounting brackets for 22mm diameter tubes (space between tubes: 42mm) and 25mm (space between tubes: 39mm) - Towel rails with flat tubes: 2 x M8 threaded shafts

User settings

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
Frost protection temperature	**Preset at +7°C,** adjustable from +5°C to +11°C
Maximum duration of authorised Boost	**60 minutes by default,** adjustable from 30 to 90 minutes by 30 minutes steps
Max. ambient temperature for the automatic stop of the Boost	**Preset at +25°C,** adjustable from +20°C to +35°C
Reset: return to the factory user settings	

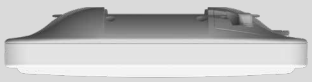
Installer settings

Automatic window-opening detection	**Enabled by default,** can be disabled
Occupancy 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
Safety: internal protection	Adjustment of the internal overheating temperature limit
Hysteresis	Adjustment of the integrated control hysteresis
Reset: return to the factory user, installer and expert settings	

Low depth once installed on the wall



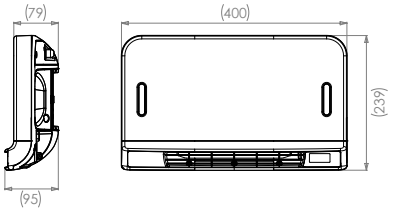
Top view

Digital panel with back-lit display

Technical specifications

Dimensional and finish specifications

Height	239 mm	
Width	400 mm	
Depth	95 mm	
Color	White	Grey
Net weight	2,35 Kg	



Power supply

Operating voltage	230V AC+/-10% 50Hz
Maximum power	Self adaptive PTC nominal power 850W to 1000W according to environment
Power cord	800 mm, 2 conductors
Radio frequency	2,4Ghz

Control

Control type	ON/OFF

Environment

Protection rating	IP24 after installation under the responsability of the integrator
Class	Class II, after installation under the responsability of the integrator
Operating temperature	0°C to +40°C
Temperature setting range	+5°C to +19°C
Storage temperature	-20°C to +65°C
NTC electronic temperature sensor	

Applicable directives

RED	2014/53/EU
RoHS	RoHS 2011/65/EU, amended by Directives 2015/863/EU and 2017/2102/EU

Applicable standards

RED	Safety: EN60335-1; EN60335-2-30; EN60335-2-43; EN62233; EN62311 EMC: EN301489-1; EN301489-3 Radio: EN300400
RoHS	EN IEC 63000
Manufacturing	On certified site ISO 9001 V2015

Product codes

Codes	Descriptions
BXFBSH2RFIA	White blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII
BXFBSH2RFIGA	Grey blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII
BXFBSH2EUPRFIA	White blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII, powercord 1200mm (CLII, IP44, 110SP, CEE7/17, white)
BXFBSH2EUPRFIGA	Grey blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII, powercord 1200mm (CLII, IP44, 110SP, CEE7/17, grey)
BRETHBSA	Bracket for assembly of blower slim module, polycarbonate white, 1pce
BRETHBSTA	Bracket for assembly of blower slim module, polycarbonate translucent, 1pce
BCATHBSTA	Nut demi-spherical for blower slim assembly, polycarbonate translucent, 1pce
Option	
RCBTHRFD	Wireless digital remote control, weekly programmable, 6 operating modes

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

IMHOTEP® création 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