

## SLIM BLOWER HYDRO



### 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



ECOdesign 2018  
compliant



Optional RF remote control

#### 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

## Functional specifications

### Use



<b>Power On / Standby</b>	A switch allows the appliance to be on standby
<b>Comfort temperature setting</b>	<b>Preset to +19°C</b> , adjustable from +16°C to +19°C
<b>Eco temperature setting</b>	<b>Preset to +15°C</b> , adjustable from +12°C to +15°C
<b>Operating modes</b>	Auto (programming), Comfort, Eco, Boost, Frost protection, Standby
<b>Boost</b>	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
<b>Boost duration gauge</b>	Automatic indication of the level of preset boost period duration
<b>Power consumption indication in kWh</b>	Posting of the estimated amount of energy consumed in kWh since the last reset to 0 of the energy meter
<b>Opened window detection</b>	Automatic switching to Frost protection mode when a significant drop in temperature is detected
<b>Window airing feature</b>	Manual window airing can be enables at any time
<b>Occupancy detection</b>	During an unoccupied period, the setting temperature is automatically and progressively decreased
<b>Auto-programming</b>	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
<b>Programming</b>	<ul style="list-style-type: none"> <li>- An automatic boost cycle is launched at each Comfort period start time.</li> <li>- 5 different preset program profiles for each day of the week : P1, P2, P3, non-stop Comfort mode, non-stop Eco (economy) mode</li> <li>- P1, P2, P3 programmes can be customised</li> <li>- Manual and temporary overriding of a programme</li> </ul>



Examples of mounting



Wireless remote control (optional)

<b>Safety</b>	<ul style="list-style-type: none"> <li>- <b>Child anti-tamper:</b> keypad locking</li> <li>- <b>Settings safety:</b> Customizable PIN code locking (prevents access to the Comfort mode, installer and expert settings)</li> <li>- <b>Backup in case the mains power supply goes off:</b> <ul style="list-style-type: none"> <li>- The whole of settings and programming: permanent backup</li> <li>- Current time and date: backup time of 3hrs typical</li> </ul> </li> <li>- <b>Anti-obstruction safety:</b> prevents the involuntary air flow obstructions (filter and ventilation grid) shutting down/switching off the blower</li> <li>- <b>Overheating protection</b> of the ambient temperature during the Boost mode</li> <li>- <b>Internal protection against any overheating</b></li> </ul>
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**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

<b>Adaptability</b>	<p>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:</p> <ul style="list-style-type: none"> <li>- 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)</li> <li>- Towel rails with flat tubes: 2 x M8 threaded shafts</li> </ul>	
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### User settings

<b>Backlighting</b>	<p><b>3 settings:</b></p> <ul style="list-style-type: none"> <li>- <b>Temporary backlighting 1 (default setting):</b> backlight of the screen when a button is pressed or during occupancy detection</li> <li>- <b>Temporary backlighting 2:</b> backlight of the screen when a button is pressed</li> <li>- <b>Non-stop backlighting:</b> backlight of the screen all the time</li> </ul>
<b>Frost protection temperature</b>	<b>Preset at +7°C</b> , adjustable from +5°C to +11°C
<b>Maximum duration of authorised Boost</b>	<b>60 minutes by default</b> , adjustable from 30 to 90 minutes by 30 minutes steps
<b>Max. ambient temperature for the automatic stop of the Boost</b>	<b>Preset at +25°C</b> , adjustable from +20°C to +35°C
<b>Reset: return to the factory user settings</b>	

### Installer settings

<b>Automatic window-opening detection</b>	<b>Enabled by default</b> , can be disabled
<b>Occupancy detection</b>	<b>Enabled by default</b> , can be disabled
<b>PIN code locking</b>	<b>Disabled by default</b> , can be enabled - Lock all controls except Boost
<b>Reset: return to the factory user and installer settings</b>	

### Expert settings

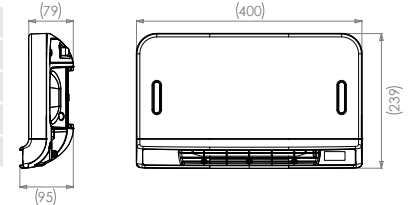
<b>Temperature adjustment</b>	Ambient temperature sensor adjustment
<b>Safety: internal protection</b>	Adjustment of the internal overheating temperature limit
<b>Hysteresis</b>	Adjustment of the integrated control hysteresis
<b>Reset: return to the factory user, installer and expert settings</b>	



## 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
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### Environment

Protection rating	IP24 after installation under the responsibility of the integrator
Class	Class II, after installation under the responsibility 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	2011/65/EU, amended by Directives 2015/863/EU and 2017/2102/EU : EN50581

### Applicable standards

RED	Safety: EN60335-1; EN60335-2-30; EN60335-2-43; EN62233; EN62311 EMC: EN301489-1; EN301489-3 Radio: EN300400
RoHS	EN50581
Manufacturing	On certified site ISO 9001 V2015

## Product codes

Codes	Descriptions
<b>BXFBSH2RFIA</b>	White blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII
<b>BXFBSH2RFIGA</b>	Grey blower with digital controller for hydraulic towel rail, auto-programming with occupancy detection, window open detection, CLII
<b>BXFBSH2EUPRFIA</b>	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)
<b>BXFBSH2EUPRFIGA</b>	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)
<b>BRETHBSA</b>	Bracket for assembly of blower slim module, polycarbonate white, 1pce
<b>BRETHBSTA</b>	Bracket for assembly of blower slim module, polycarbonate translucent, 1pce
<b>BCATHBSTA</b>	Nut demi-spherical for blower slim assembly, polycarbonate translucent, 1pce
<b>RCBTHRFD</b>	Wireless digital remote control, weekly programmable, 6 operating modes

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