

# BEHA



## Panel Convactor Heaters

Electric Central Heating with Wireless Control



# Panel Convector Heaters with electronic thermostats

## Modern design and cost effective heating to improve your indoor environment

**BEHA Panel Convector Heaters** are approved and certified according to international CCA specifications EN60335 and carry the CE mark, thus complying with European safety standards and standards for electromagnetic compatibility. ALL BEHA Panel Convector Heaters are tested and approved for IPX4 rating (splash proof) and can be installed in bathrooms and other damp areas in accordance with local regulations.

### Electronic thermostat

BEHA Panel Convector Heaters are fitted with an on/off switch and an extremely accurate electronic thermostat maintaining a very stable room temperature. The thermostat's typical deviation is 0.2°C at 20°C room temperature.

### Heating element design

The heating elements are made of extruded aluminium with cooling fins and perforations. This special design gives an expanded surface area and a unique heat distribution, reducing the surface temperature.

The heating elements are mounted in special glass fibre reinforced brackets eliminating unwanted noise from the heater.

### Low heating element operating temperatures

Panel convector heaters are often burning dust and deposit soot above the heaters. Not any more. These problems are eliminated with BEHA environmentally friendly heaters.



Standard Panel Heater - 400mm high

### Safety Features

All BEHA Panel Convector Heaters have a built-in 'frost guard' symbolised by a snow crystal on the thermostat temperature control. This function ensures the room temperature will not drop below 5°C even if the thermostat temperature control is turned towards the 'off' position.

All heaters come with a lockable dust cover on the control panel. For installation in hotels, schools and public buildings etc the cover can be fixed, removable only by an authorised person. Another important safety feature is the thermal cut-out switch that disconnects the power to the heater if an object, such as clothing, accidentally falls onto the heater body causing over-heating. When the covering object is removed the power will automatically be switched on again.

***NB. Hanging clothes for drying on any heater is dangerous and may cause fire!***

The maximum front panel surface temperature is 80°C at 20°C room temperature.

### Available products:

There are two basic configurations in black or white finish. Standard Panel Heaters, 400mm high from 400w to 2000w and Low Profile Panel Heaters, 200mm high from 500w to 1200w.

### Controls and other energy saving devices:

iJAZ Wireless Central Heating Controller and TP100 Energy Saving Module.

### iJaz Wireless Central Heating Controller

Allows you to take control of the power consumption in your home or property. With the iJaz System you can simply program and control any number of BEHA panel heaters in up to 16 zones to provide full heat, setback heating or frost protection when and where it is needed.

There is no need for extra cables as the system is entirely wireless, communicating with the heaters via receiver modules (RP200) which can be easily fitted to any BEHA panel heater manufactured after August 2005.

### TP100 Energy Saving Module

Supplied already programmed for lowering set temperatures by 5°C at night or when rooms are unoccupied.

Simple to fit with three independent programs for 5, 7 and 15 hours of set-back temperatures.



iJaz



RP200



TP100



### Heat outlet

The heat outlet on the front panel is designed to divert the warm airflow away from the wall and is another means of reducing the possibilities of dust collection and soot deposits above the heater.

The combination of low element surface temperature and the diverted heat helps create a cleaner indoor environment.

The maximum surface temperature on the front of the heater is 80°C at 20°C room temperature.

### Relief for allergy and asthma sufferers

The extremely low heating element temperatures within BEHA heaters have virtually eliminated the problems of dust burn which can create unpleasant and irritating odours, especially for those suffering from allergies and asthma.

Dust burn is caused by a high surface temperature on the heating elements inside the heaters and a high surface temperature on the front panel. Dust burn becomes a problem at 225°C. The heating elements inside BEHA heaters are designed to increase the surface area and thus lower the normal operating surface temperature. During the start-up period the element temperature may momentarily reach 225°C but quickly decreases to stabilise at 90°C.




Low Profile Panel Heater - 200mm high

# Norwegian Quality with low installation and maintenance costs!

All BEHA Panel Convactor Heaters are fitted with on/off switches and electronic thermostats.

Thermostat deviation: 0.2°C at 20°C room temperature.

Maximum surface temperature: 80°C at 20°C room temperature.

Double insulated  Splash proof, rating IPX 4 Operating Voltage: 230v Black and White (RAL9010) options

## Standard Panel Convactor Heaters - Series P

Supplied with 1.5m flexible cable

Height: 400mm - Depth: 50mm (Wall bracket adds 33mm)

Type	Watts (W)	Length	Dist' between wall fixings
P4	400w	431mm	210mm
P6 *	600w	555mm	210mm
P8	800w	679mm	310mm
P10 *	1000w	803mm	310mm
P12	1250w	927mm	610mm
P15	1500w	1175mm	610mm
P20	2000w	1423mm	610mm

\* Also available in Black

## Low Profile Panel Convactor Heaters - Series L

Supplied with 1.5m flexible cable

Height: 200mm - Depth: 50mm (Wall bracket adds 33mm)

Type	Watts (W)	Length	Dist' between wall fixings
L5 *	500w	803mm	310mm
L7	750w	1051mm	610mm
L10 *	1000w	1299mm	610mm
L12	1250w	1669mm	910mm

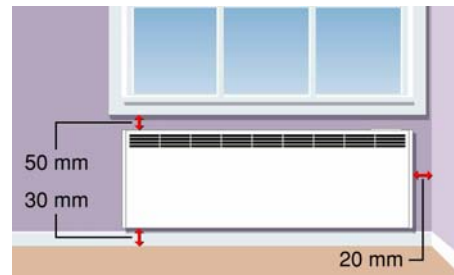
\* Also available in Black

## Installation

BEHA Panel Convactor Heaters are designed to fit in at the coldest part of the home - underneath the windows.

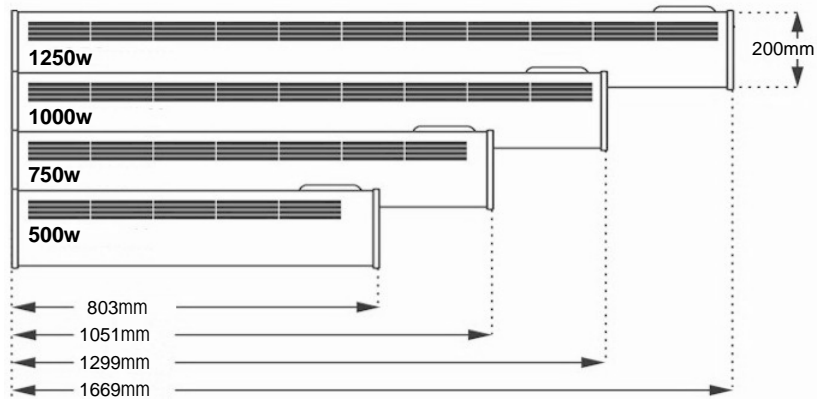
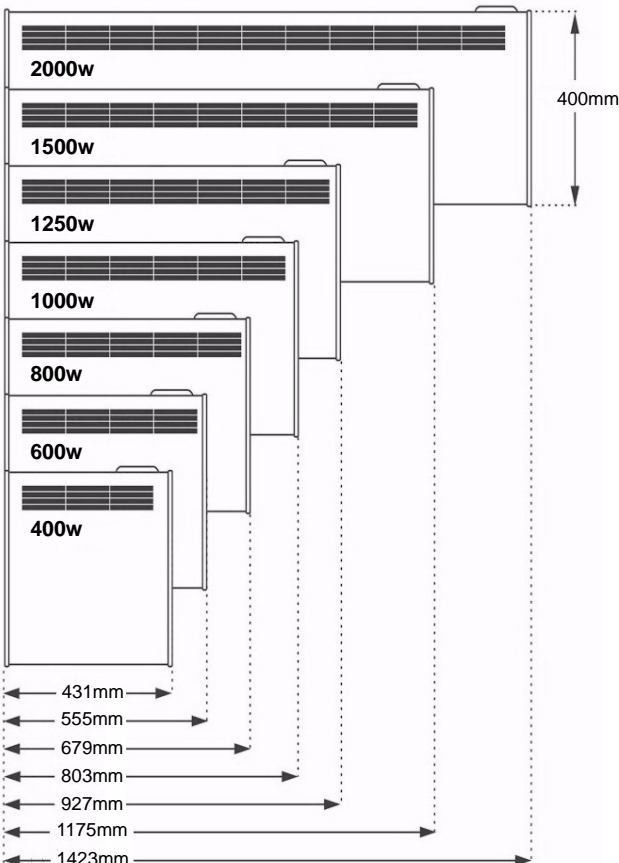


For safe installation and operation the heaters are double insulated and can be connected to any suitable 230v power outlet.



## Additional devices available for use with P & L Series Panel Convactor Heaters:

iJaz Wireless Central Heating Controller and RP200 Receiver Modules or TP100 Energy Saving Module



Simple Heat Calculations	
Room Dimensions	Recommended Heater Size
2 - 4m <sup>2</sup>	300w
3 - 7m <sup>2</sup>	400w
3 - 10m <sup>2</sup>	600w
9 - 12m <sup>2</sup>	800w
12 - 16m <sup>2</sup>	1000w
14 - 20m <sup>2</sup>	1250w
18 - 25m <sup>2</sup>	1500w
22 - 32m <sup>2</sup>	2000w

Note: This is a guide only. Various factors have to be considered when choosing the correct heater(s) for any room or property including the type of construction, the standard of insulation, the number of outside walls, the number of windows etc.

# Electric Central Heating with the iJaz wireless system



## iJaz Wireless Controller

- \* Wireless communication with BEHA panel heaters having RP200 fitted or with power switch SP16
- \* No extra cables required
- \* User friendly design with touch display
- \* Can control up to 16 zones
- \* Unlimited number of heaters or switches per zone
- \* Built-in transmitter and receiver
- \* 433 MHz, 300m max range
- \* Built-in thermometer with digital viewing
- \* Colour: Grey

## iJaz Wireless Receiver RP200

- \* Wireless receiver for BEHA iJaz system
- \* Fits BEHA 'P' & 'L' model panel heaters manufactured after August 2005
- \* Pause button to cancel program
- \* Functions indicated by light diodes
- \* Four functions; normal, set-back of 5°, frost protection and OFF
- \* Automatic 'cold draft' function when opening windows
- \* Available in Black or White



## iJaz Power Switch SP16

- \* Wireless switch for BEHA iJaz system
- \* Switches up to 16a load
- \* Functions indicated by light diodes
- \* Separate on/off button
- \* Available in White

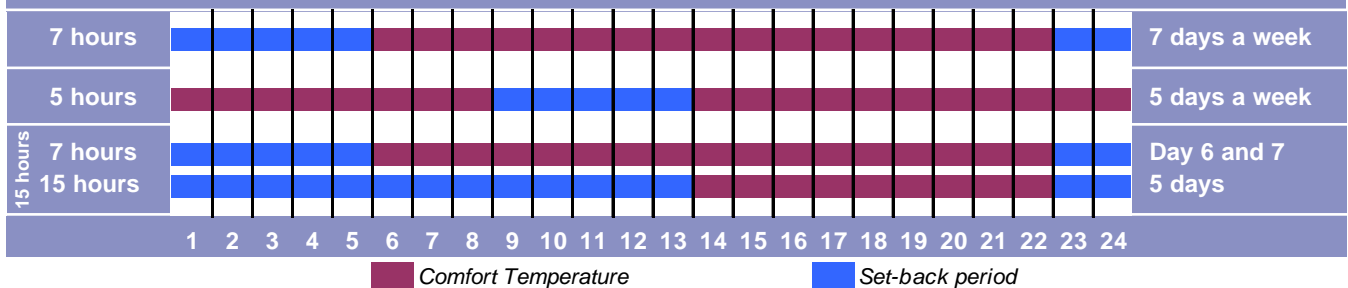


## TP100 allows energy saving without an iJaz controller

The economy module TP100 is a ready programmed plug-in module with three programs for lowering the room temperature - (the 'set-back' temperature)  
The set-back temperature is 5°C lower than the temperature set on the heater - (the 'comfort' temperature) and is for when rooms are unoccupied or at night time.

- \* Individual unit used independently of the iJaz system
- \* Fits BEHA 'P' & 'L' model panel heaters manufactured after August 2005
- \* Simple to use and fit
- \* 3 independent programs with 5, 7 and 15 hour setback periods
- \* Program memory retained in the event of power failure
- \* Available in Black or White

## An example of programming the TP100



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