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## Installation / Owners Manual

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**⚠ WARNING Read all instructions before using this heater.**

Read and understand all instructions prior to first use. Improper installation, operation, adjustment, alteration, service or maintenance can result in the risk of fire and electrical shock, and may cause property damage, injury or death.

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**SAFETY ALERT:**



- These instructions are applicable to the models stated in the specifications (see below), and must not be used with any other make or model



- Do not attempt to open, the heater contains no serviceable parts. Attempting to do so will permanently damage the heater and void all warranties and potentially risk death or personal injury.



- Do not operate this heater unless it is properly installed

- Do not operate outdoors

- Do not install where it may fall into water e.g. bath, basin

- Do not cover the front of the panel as this may cause overheating and shutting down of the panel



- Before handling or moving the heater, disconnect AC supply and allow the heater to cool down

- Recycle the product where facilities exist. Do not dispose of as household waste. For more information, contact the manufacturer.

- Please keep these instructions in a safe place for future reference
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## Product Compliance

This product complies with the essential requirements of the following EC Directives:

- Electromagnetic Compatibility directive 2004/108/EC
- Low Voltage Directive 2006/95/EEC
- EC Marking Directive 93/68/EEC
- EC Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE)
- RoHS 2 Directive 2011/65/EC
- Building Regulations Directive BS EN 13964 (for suspended ceiling models)
- Commission Regulation (EU) 2015/1188 Lot 20 and complies with Article 1 Section (g) by definition under Article 2 Section (16) applicable only to indoor space heating to reach and maintain a certain thermal comfort for human beings

## General Description

The Infrared Radiant Panel (IHP) is a lightweight, high performance radiant heater designed to provide comfort by warming objects and people just like the sun does (but with no UV rays) without having to warm the air.

These panels are ideal for both spot heating in high heat loss areas or as a full central heating system. Panels may be installed side by side or individually in areas requiring additional heat.

The IHP has been designed for use in suspended ceilings as a replacement for a standard ceiling tile or attached to a ceiling or wall using brackets.

Key features of the panel include:

- **A highly thermally conductive aluminium emitting plate with a high emissivity polymer coating to ensure maximum radiant efficiency**
- **Multi stage insulation to minimise rear panel energy losses**
- **A unique light weight, floating frame design that allows effortless installation into a suspended ceiling frame but also looks great when fixed to a wall or ceiling**
- **Operating temperatures for both wall and ceiling mountings within UK electrical wiring regulations**
- **A safety over-temperature trip to protect the panel from overheating if accidentally covered**
- **A British Standard two metre of flex which must be wired into an external thermostatic and timed control system**

## Sizing Recommendations

Power requirements need to consider both the total heat load and warm up times.

For an insulated, domestic installation where heating is on continuously, 50 watts per square metre is recommended. Additional wattage maybe required when heating is used intermittently or when fast warm-ups times are required.



## Installation

- Infrared Heater Panels may be affixed directly to ceilings and walls using the brackets on the back of the panel. Brackets slide over mounting screws.
- Additionally the IHP160a and IHP320a can be mounted in corners or cornices at 45° angle using the brackets on the side of the panel. A template is supplied to facilitate the positioning of the mounting
- The larger panels, IHP320Sc and IHP640c can also be incorporated into a standard 600 x 600mm suspended ceiling frame in which case the ceiling manufacturer's guide lines must be adhered to at all times. A safety fixing point is provided on the rear of the panel so the installer can affix the product to the building structure above in accordance with BS EN 13964 if required
- The IHP range of infrared heater panels are a component part of a designed heating system. To comply with Commission Regulation (EU) 2015/1188 Lot 20, this product must be installed and controlled by an external timed thermostat control system. The supplied product flex must be wired to this control system in accordance with the manufacturer's instructions to achieve the minimum ecodesign requirement.
- Considerations should be given to the addition of open window sensing, occupancy sensing and out of building heating control systems such as a mobile phone application or other device to further increase energy savings. There are many sophisticated control systems available. Please contact us for assistance if required.



## Layouts and First Time Use

Unlike convection heaters, the proper layout of radiant heaters is important in ensuring the even distribution of heat i.e. no cold spots. It is recommended that panels are evenly distributed around the room with no obstructions. For ceiling installation, panels should be placed ideally 600 mm away from the walls. This is not a necessary or safety requirement.

Thermostats should not be placed directly in front or underneath the heater panels.

When using the panels for the first time or after a long time period of non use, one must allow additional time to heat up the fabric of the building. Once the core of the building is warm and dry, future heating loads will be greatly reduced.

## Product Warranty

Infrared Heater Panels warrants that the goods will be free from defects in material and workmanship for 10 years from the date of delivery. The guarantee will only include the repair/replacement of the product and does not extend to consequential losses. We will not assume liability for scratches on face or back after the start of operation or damages caused by mis-handling. Statutory rights are not affected by this warranty. Full terms and conditions are available on request.



## Specifications

<b>Product Name / No.</b>	Infrared Heater Panel – IHPwwwxyz (www = wattage x = Shape )
<b>Manufactured By</b>	Infrared Heater Panels UK
<b>Usage</b>	Low intensity heating panel for indoor heating. Can be mounted flush with a wall or ceiling without fear of over-heating. Ceiling model fits directly into standard grid suspended ceiling. Not suitable for outside heating or in large open spaces.
<b>Front Surface Temperature</b>	90°C (average)
<b>Power @230V</b>	160W 320W 480W 640W 960W
<b>Recommended Fuse Rating</b>	3 Amp for 160 to 480W, 5 Amp for 640 & 960W models
<b>Operating Voltage</b>	230VAC (+10% / -6%)
<b>Protection</b>	Bimetallic temperature trip
<b>IP Rating</b>	54
<b>Mounting Options</b>	c – In Ceiling for suspended ceilings r – Back Mounting rails for wall or ceiling a – Side mounting rails for cornice or corner mounting
<b>Colour Options</b>	White, Black, Printed, Painted
<b>Exterior Facings</b>	High Emissivity Coated Aluminum
<b>Element</b>	Resistor - Heavy Duty Stainless Steel in a Ceramic (mica) Substrate
<b>Dimensions</b>	IHP160 1.8kg 295 x 595 x 25mm IHP320S 2.6kg 595 x 595 x 25mm IHP320 2.6kg 1195 x 295 x 25mm IHP480 4.0kg 895 x 595 x 25mm IHP640 5.2kg 1195 x 595 x 25mm IHP960 7.5kg 1195 x 895 x 25mm
<b>Certifications &amp; Compliance</b>	LVD EN60335-1:2002 + A11:2004 + A1:2004 + A12:2006 + A2:2006 + A13:2008 + A14:2010 EN60335-2-30:2003 EN61000-6-3:2007 + A1:2011 EN61000-3-2:2006 + A1:2009 + A2:2009 EN61000-3-3:2008 EN61000-6-1:2007 BS EN 13964:2004 European Standard for Suspended Ceilings RoHS Directive 2011/65/EU EC Directive 2012/19/EU on WEEE Commission Regulation (EU) 2015/1188 Lot 20 and is exempt under Article 1 Section (g) by definition under Article 2 Section (16)
<b>Warranty</b>	10 years

<b>Manufacturer's Details:</b>	Infrared Heater Panels
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