RADI8
INDUSTRIES

Premium Frameless Wall Panels

Installation and Operating Manual

Frameless wall panel - illustrative outline

350W / 450W / 580W / 700W

Fixed wall mounting • External thermostat control

APPLICABLE RADI8 MODELS

FH6060G350A • FH7060G450A
FH10060G580A • FH12060G700A

Infrared Heating Supplies

infraredheatingsupplies.com

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About this manual

This manual applies only to the four RADI8 models listed on the cover. They are supplied without built-in thermostats. Read the product label before installation and retain this manual for future reference.

Symbols



Warning

Indicates a hazard which, if not avoided, could result in serious injury or death.



Warning of electrical voltage

Electrical components and connections can present a risk of serious injury or death. Isolate the electricity supply before electrical work.



Do not cover

Never cover the heater or place towels, clothing or other items over it. Covering the heater can cause overheating or fire. Follow the recommended installation clearances.



Hot surface

The heating surface becomes hot during operation. Do not touch it while it is operating or before it has cooled completely.



Do not spray

Do not spray water onto the heater. Never immerse it in water or allow moisture to enter its housing.



Read the instructions

Read and follow this manual before installing, operating or maintaining the heater.

1 WARNINGS AND PRECAUTIONS

Read this manual carefully before installing or using the heater. Keep it close to the installation or in another accessible place. Failure to follow the warnings and instructions may result in electric shock, fire or serious injury.

Wall mounting only
These four models are for fixed wall mounting only. We recommend positioning the bottom edge of the heater 600mm or more above floor level. Do not install it on a ceiling, suspend it or use it as a freestanding heater. Follow the clearances in Section 4.

Warning
Children aged eight and over, and people with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, may use this heater provided they are supervised or have been instructed in its safe use and understand the hazards involved.

Children must not play with the heater. Children must not carry out cleaning or user maintenance without supervision.

Warning
Keep children under three away from the heater unless they are continuously supervised.

Children aged three to seven may only switch the heater on or off if it has been correctly installed in its normal operating position, and they are supervised or have been instructed in its safe use and understand the hazards involved.

Children aged three to seven must not plug in the heater, adjust its settings, clean it or carry out user maintenance.

Warnings (continued)

Warning
Do not use this heater in a small room occupied by anyone who cannot leave the room independently, unless they are continuously supervised.

Hot surfaces and combustible materials
Parts of this heater can become very hot and cause burns. Take particular care when children or vulnerable people are present.

Do not install the heater close to curtains or other combustible materials. Extra care is needed around infants, children, older people, people with sensitive skin, and anyone whose ability to recognise or react to heat is reduced by illness, alcohol or sleeping medication.

Temperature sensor positioning
Position an external thermostat or room sensor away from direct radiant heat and other heat sources. Direct exposure to the heater can affect temperature readings. Follow the controller manufacturer’s positioning instructions.

Safety instructions

• Remove all protective films from both the front and back of the heater before switching it on for the first time.

• Connect the heater to a properly earthed 220-240V, 50Hz electricity supply. Follow the wiring markings and electrical connection instructions provided for your model.

• Ensure the electricity supply, wiring and protective devices are suitable for the heater’s rated power. Refer to the technical specifications and electrical installation instructions for your model.

• Do not use this heater in areas containing flammable or corrosive gases or vapours, or combustible dust.

• Ensure the heater is securely mounted to a suitable wall in accordance with the installation instructions.

• After cleaning, allow the heater to dry completely before switching it on. Never operate the heater while it is wet.

• Do not touch the heater, plug or electrical connections with wet or damp hands.

• Do not spray water directly onto the heater.

• Never insert fingers or other body parts, or any objects, into openings in the heater.

• Never cover the heater. Switch it off and allow it to cool completely before moving it.

• Do not sit, stand or place any weight on the heater.

• Do not allow children or animals to play with the heater or its controls. Follow the supervision requirements set out in the warnings above.

• Before use, check the heater, accessories and connections for signs of damage. Do not use the heater if any part is damaged or defective.

• Protect the power cable and any external wiring from damage, including damage caused by animals. Do not use the heater if the cable, plug or electrical connection is damaged.

• Do not leave the heater operating unattended. Switch it off and disconnect it from the electricity supply when not in use.

Safety instructions (continued)

• If the heater is supplied with a plug, ensure it is fully inserted into a suitable, securely fitted mains socket. For a hardwired installation, have a qualified electrician connect the heater through a switched fused connection unit (fused spur), with a fuse rating suitable for the heater and its supply cable.

• Do not connect the heater to an overloaded socket or electrical circuit.

• If using an extension lead, ensure it is suitable for the heater’s rated power and the required cable length. Fully unwind the lead before use and do not overload it.

• Before cleaning, maintenance or repairs, switch off the heater, disconnect it from the electricity supply and allow it to cool completely. For plug-in installations, grip the plug when unplugging; never pull the cable. For hardwired installations, isolate the electricity supply before work begins.

• If the heater will not be used for an extended period, switch it off and disconnect it from the electricity supply.

• Do not use the heater if its plug or power cable is damaged. A damaged power cable must be replaced by an authorised service agent or a suitably qualified person. Do not attempt to repair or replace it yourself.

• Follow the recommended installation clearances from walls and surrounding objects shown in the installation instructions. Follow the storage and operating conditions specified in this manual.

• Never drill into the heater.

• Position the heater’s switches and controls so they cannot be reached by anyone using a bath or shower.

• This heater is rated IP20. In bathrooms, install it only in a suitable dry location outside zones 0, 1 and 2, where it will not be exposed to water splashes or sprays. Installation must be carried out by a qualified electrician in accordance with applicable electrical installation requirements.

2 TECHNICAL INFORMATION

Specification	Details
Heating method	Far infrared radiant heating
Heating element	Carbon
Supply	220-240V AC, 50Hz
Typical surface temperature	85-95°C for wall models
Construction	Frameless
Front surface	Powder-coated aluminium
IP rating	IP20, excluding the plug
Overheating protection	Yes
Power cable length	1.9 metres
Installation	Fixed wall mounting only; horizontal or vertical orientation
Controls	No built-in thermostat; compatible external controls available separately

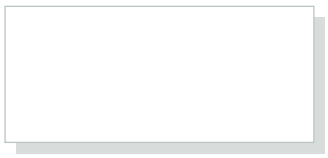
Models covered

RADI8 product code	Panel body dimensions (mm)	Output
FH6060G350A	595 × 595 × 25	350W
FH7060G450A	705 × 605 × 25	450W
FH10060G580A	1005 × 605 × 25	580W
FH12060G700A	1195 × 595 × 25	700W

Panel body depth is 25mm. Total depth including the rear mounting brackets and junction box is 40mm for all four models. Check the model and electrical rating on the product label before installation.

3 SUPPLIED PARTS AND CONSTRUCTION

A



B



C



D



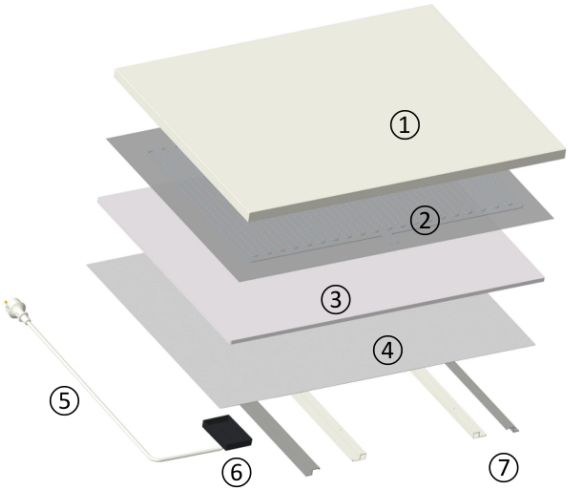
E



Part reference	Part	Quantity
A	Frameless heating panel	1
B	Drilling template	1
C	Instruction manual	1
D	Grey wall plugs	4
E	Self-tapping wall screws	4

The supplied wall plugs are suitable for concrete walls, not plasterboard. For suitable timber walls, the screws can be fixed directly into sound timber without wall plugs. The installer must select fixings suitable for the wall construction and heater’s weight. Use suitable alternative fixings for other wall types. An external thermostat is not supplied unless included in your purchased package.

Panel construction



1 Frameless outer shell

2 Heating element

3 Insulation layer

4 Rear metal sheet

5 Power cable

6 Junction box

7 Mounting bars

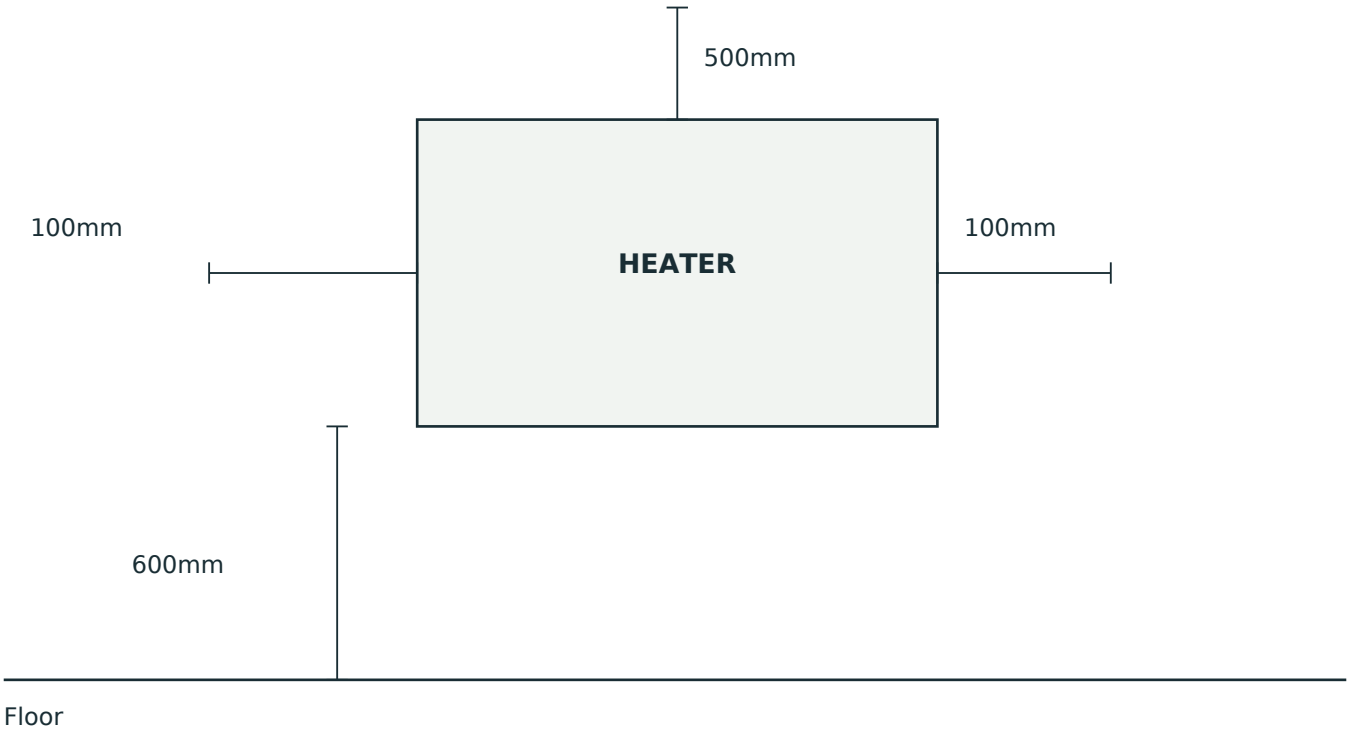
Internal construction shown for identification only. Do not open, modify or drill into the heater.

4 RECOMMENDED CLEARANCES

Before installation
Use a suitable wall that can safely support the heater. The distances below are recommended installation clearances. Remove the protective films from both sides before use. These instructions apply to wall mounting only.

Location	Recommended distance
Floor to bottom edge of panel	600mm or more
In front of the heating surface	300mm
Left side	100mm
Right side	100mm
Above the panel	500mm

No additional rear clearance is required beyond the spacing provided by the supplied mounting bars.



Front view - not to scale. Recommended clearance in front of the heating surface: 300mm.

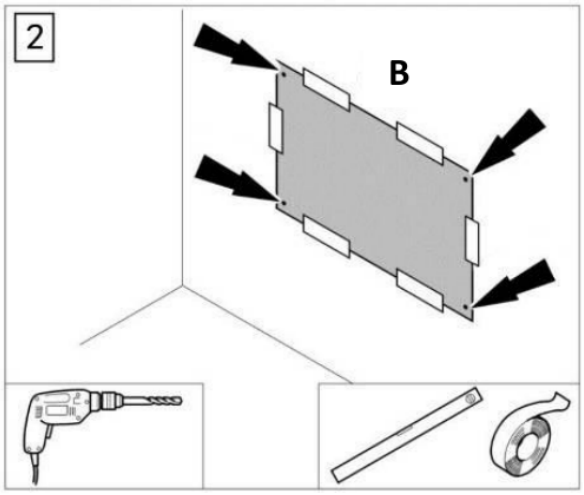
Marking and fitting the wall screws

1. Select and mark the position

All four models can be wall mounted horizontally or vertically. Choose a suitable position, following the recommended installation clearances in Section 4. Check the wall for concealed cables and pipes before drilling. Use the supplied drilling template (B) to mark the four fixing positions. If the template is unmarked, transfer the fixing positions from the panel's mounting bars to the template. Do not drill into the heater.

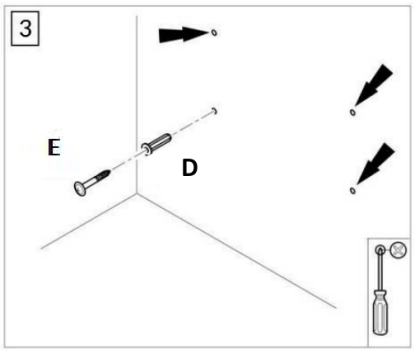
2. Drill and fit the wall plugs

For concrete walls, drill four 8mm holes at the marked positions. Insert the grey wall plugs (D), tapping them carefully into place. Do not use these plugs in plasterboard. For suitable timber walls, fix the screws directly into sound timber without wall plugs. For other wall types, the installer must select suitable alternative fixings.



3. Fit the screws

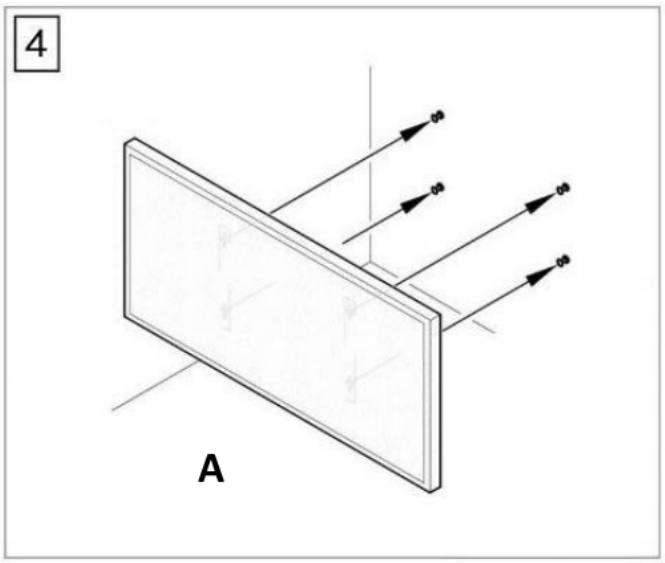
Insert the self-tapping screws (E) into the wall plugs, or directly into suitable timber, and tighten them. Leave approximately 5mm between the screw head and the fixing surface so that the panel's mounting bars can engage with the screw heads.



Hanging and securing the panel

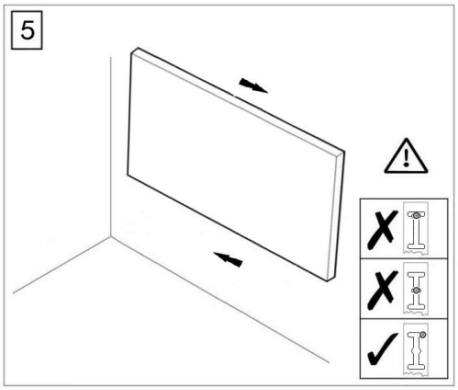
4. Hang the panel

Support the panel securely and align the mounting openings on the rear mounting bars with the four screw heads. Carefully hang the panel onto the screws.



5. Engage the mounting bars

Slide the panel in the direction shown by the factory diagram so that all four screw heads engage fully in the retaining positions. Check that the panel is securely supported and cannot slip free. Keep the power cable clear of the mounting points and hot surfaces.



Final installation check
Do not switch on the heater until it is securely mounted, all protective films have been removed and the electrical connection is complete. Follow Section 5 for connection and external control.

5 ELECTRICAL CONNECTION AND CONTROLS

Plug-in connection

Where supplied with a plug, connect the securely mounted heater to a suitable earthed mains socket. Make sure the cable is not trapped, strained or in contact with the heating surface. Disconnect the heater when it is not in use.

Recommended permanent connection

For a permanent installation, we always recommend hardwiring through a suitable switched fused connection unit (fused spur). This work must be carried out by a qualified electrician. The electrician must select protective devices and a fuse rating suitable for the heater and its supply cable.

External thermostat control

These four panels do not have a built-in thermostat, Wi-Fi controller or remote control. Use a compatible external thermostat for room temperature control. Suitable controls can provide weekly heating schedules and other functions, depending on the controller selected.

Have a qualified electrician connect a wired external thermostat, the heater and the electricity supply in accordance with the controller instructions. The control system must be rated for the total connected load. Follow the thermostat manual for setup, scheduling and operation.

Place the thermostat or its sensor in an open position representative of the room temperature, away from direct radiant heat, draughts and other heat sources. Follow its manufacturer’s positioning instructions.

First switch-on

Check that the panel is securely fixed, the front and rear protective films have been removed and the recommended installation clearances are followed. Switch on the supply and, if fitted, set the external thermostat to call for heat. The heating surface will become hot. Do not touch it during operation.

> **Electrical isolation**
> Switching heating off at a thermostat may leave the electrical supply connected. Isolate the supply before cleaning, servicing or removing the heater.

6 TROUBLESHOOTING AND FIRST USE

Noise during warm-up

Slight expansion noises may occur when the heater is first switched on as its internal materials warm up. If the noise is loud, persistent or unusual, switch off the heater and contact Infrared Heating Supplies.

Slight surface warping

The heater’s surface may warp slightly as it heats up due to thermal expansion. Slight warping during heating can be normal. If the distortion is pronounced, worsens or remains after the heater has cooled, switch off the heater and contact Infrared Heating Supplies.

The heater is not warming as expected

Check that heating is switched on and the set temperature is higher than the measured room temperature. If the heater still does not warm as expected, contact Infrared Heating Supplies for assistance. Where an external controller is fitted, also check its schedule and operating mode using its own instructions. Do not open the heater or attempt electrical repairs.

The heater is only slightly warm

Allow time for the panel to warm up. Low supply voltage or a cold room may affect heating performance. If performance remains poor, switch off the heater and contact Infrared Heating Supplies. Have any suspected supply fault checked by a qualified electrician.

A plug, cable or connection is damaged

Stop using the heater and disconnect the supply. Contact Infrared Heating Supplies or an authorised service agent. A damaged cable must be replaced by an appropriately qualified person.

An external controller is not working

Refer to the controller’s own manual for its settings, power supply, pairing and troubleshooting. This panel has no built-in control system to pair with a remote.

7 CLEANING, SERVICING AND STORAGE

Before cleaning or maintenance

Switch off the heater, disconnect it from the electricity supply and allow it to cool completely. For plug-in installations, grip the plug when unplugging; never pull the cable. For hardwired installations, isolate the electricity supply before work begins. Do not touch electrical connections with wet or damp hands.

Servicing and repairs

Do not open the heater yourself. Internal inspection and repairs must be carried out by a qualified electrician or an authorised service agent.

Cleaning

Clean the heater with a soft, lint-free cloth lightly dampened with water. Never immerse the heater in water or spray water directly onto it. Do not allow moisture to enter the housing or reach electrical components.

Do not use cleaning sprays, solvents, alcohol-based products or abrasive cleaners. Wipe the heater dry after cleaning and allow it to dry completely before reconnecting the electricity supply.

Storage

- Disconnect the heater and allow it to cool completely before removal or storage. Have fixed electrical connections disconnected by a qualified electrician.
- Keep the panel in a dry place, protected from frost and sources of heat.
- Store it upright, away from dust and direct sunlight.
- If needed, fit a protective dust cover once the heater has cooled completely.
- Do not place other items on top of the heater, as this could damage it.

8 DISPOSAL AND WARRANTY

Removal and disposal

Switch off and disconnect the electricity supply, allow the heater to cool completely and support it securely before releasing the wall fixings. Have a qualified electrician disconnect hardwired installations.

The crossed-out wheelie bin symbol means that this heater must not be disposed of with household waste. At the end of its working life, take it to a suitable electrical waste recycling facility. Contact your local council for information about collection points and disposal arrangements.

Recycling electrical equipment helps recover useful materials and protects people and the environment from harmful substances.

10-year RADI8 warranty

The four RADI8 frameless wall panels covered by this manual have a 10-year warranty. For warranty assistance, contact Infrared Heating Supplies with your product code, proof of purchase, details of the fault and any relevant photographs. Refer to the warranty terms supplied with your purchase.

Here to help

For installation guidance, compatible controls, product support and replacement documentation, contact Infrared Heating Supplies.

Infrared Heating Supplies

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Before contacting us

Please have your order details, the RADI8 product code and a clear photograph of the product label available. For control queries, also provide the make and model of the external thermostat.

Output	RADI8 product code
350W	FH6060G350A
450W	FH7060G450A
580W	FH10060G580A
700W	FH12060G700A

Manual reference: RADI8-F-WALL-EN
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