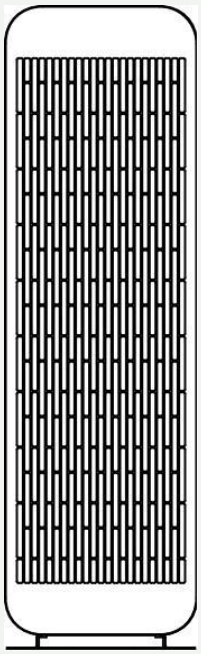
Freestanding Infrared Heaters

Assembly and Operating Manual



1400W / 1600W / 1900W

Black and white models

Freestanding | 1600W deskboard versions included

Infrared Heating Supplies

infraredheatingsupplies.com

Edition 1.1 | November 2026

CONTENTS

Models and symbols	**3**
Warnings and electrical safety	**5**
Technical information and supplied parts	**9**
Positioning and assembly	**11**
Controls, moving and deskboard use	**14**
Safety protection and troubleshooting	**16**
Care, storage, disposal and warranty	**18**

Read this manual before assembly or use. Keep it with the heater for future reference and pass it to any subsequent owner. Match the product code and controls to your heater.

1 MODELS COVERED

This manual covers the following RADI8 freestanding infrared heaters. Fit the supplied base before use. The deskboard instructions apply only to the two 1600W models.

Product code	Heating power	Colour	Version
FSH1400B	1400W	Black	Standard
FSH1400W	1400W	White	Standard
FSH1900-B	1900W	Black	Standard
FSH1900-W	1900W	White	Standard
FSH1600-B	1600W	Black	With deskboard
FSH1600-W	1600W	White	With deskboard

Freestanding use only
Use upright on the correctly fitted base on a suitable, stable, level floor. Do not use without the base or lay the heater horizontally. Do not wall mount or ceiling mount.

All six models use a rotary mechanical temperature control and a separate illuminated power switch. See page 14 for operation.

The 1600W deskboard model has no carrying handles. Instructions for the handles on the 1400W and 1900W models do not apply to it.

SYMBOLS



Warning

Identifies a hazard which, if not avoided, could cause serious injury or death.



Risk of electric shock

Electrical voltage can cause serious injury or death.



Do not cover

Do not cover the heater or block its air openings. Covering can cause overheating and fire.



Hot surface

Parts of the heater become hot during use and can cause burns.



Do not spray

Do not spray water directly onto the heater.



Read the instructions

Read and follow these instructions before assembly, operation or maintenance.

2 WARNINGS AND PRECAUTIONS

Read this manual carefully before starting or using the heater. Always keep it in the immediate vicinity of the heater or its site of use.

Read all safety warnings and instructions. Failure to follow them may result in electric shock, fire and / or serious injury. Save all warnings and instructions for future reference.

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 assembled and placed 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.

Hot surfaces and operating conditions

Warning
Parts of this heater become very hot and can cause burns. Take particular care when children or vulnerable people are present. The stated surface temperature is below 110°C, which is still hot enough to cause burns.

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.

Maximum room ambient temperature
The surrounding room temperature must not exceed 30°C during use. This is the maximum operating ambient temperature, not a numbered setting on the rotary control.

Clearances and ventilation
Keep furniture, cushions, bedding, papers, clothing, curtains and other combustible materials at least 900mm from the front of the heater. Keep them at least 300 mm from each side and above. Leave 300 mm at the rear of the 1400W and 1900W models and 900 mm at the rear of the 1600W model. See page 11. Never cover the heater or block its air openings.

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

Do not touch hot surfaces or move the heater while operating. Switch off, unplug and allow it to cool completely before moving or cleaning.

Safety instructions

• Remove protective films from the front and rear before switching on for the first time, where fitted.

• 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.

• Use upright on its correctly assembled base on a suitable, stable, level floor. Do not place it on a raised surface or where it could be knocked over.

• 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.

• The heater contains hot components and electrical switching parts. Do not use where petrol, paint, flammable vapours or flammable liquids are used or stored.

Electrical Safety

• The supplied UK plug is fitted with a 13A fuse. Connect it to a suitable, properly earthed UK 13A mains socket on a 220-240V, 50Hz supply. Insert the plug fully and do not overload the socket or circuit.

• To prevent inadvertent resetting of the thermal cut-out, do not supply this heater through an external switching device such as a timer, or a circuit that is regularly switched on and off automatically. Do not use an external thermostat or other controls to switch the mains supply automatically.

• If an extension lead is used, it must be suitable for the heater’s rated power and required length, fully unwound and protected from damage. Do not overload it.

• Switch off, unplug and allow the heater to cool completely before assembly, moving, cleaning or maintenance. Grip the plug when unplugging; never pull the cable.

• Do not use if the plug or cable is damaged. A damaged cable must be replaced by an authorised service agent or a suitably qualified person. Do not attempt electrical repairs yourself.

• Use indoors in a dry location. Keep away from baths, shower trays, swimming pools and other water containers. Do not expose to splashes, sprays or direct water jets.

• Position switches and controls so they cannot be reached by anyone using a bath or shower. For installations in Sweden, do not use in bathrooms or child-care centres.

• Disconnect when the heater is not in use. Never drill into or modify the heater. Electrical servicing must be carried out by a suitably qualified person with the supply disconnected.

3 TECHNICAL INFORMATION

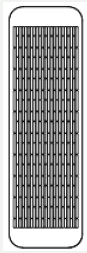
Dimensions and net weights

Model	Heater body (H × W × D)	Assembled (H × W × D)	Net weight
1400W	865 × 255 × 90 mm	865 × 265 × 250 mm	7 kg
1600W deskboard	730 × 310 × 90 mm	730 × 350 × 350 mm	10 kg
1900W	1130 × 255 × 90 mm	1130 × 300 × 300 mm	9.3 kg

Assembled dimensions and net weights include the base and, for the 1600W, the deskboard. The figures apply to both colours. Allow space for controls, the cable and the clearances on page 11.

Shared specification	Details
Heating element	Glass-ceramic + graphene carbon
Surface material	Iron
Rear: 1400W / 1900W	Wire mesh
Rear: 1600W deskboard model	Iron
Supply voltage / frequency	220-240V / 50Hz
Surface temperature	Below 110°C
Maximum room ambient temperature	30°C
IP rating	IP20, excluding the plug
Power cable length	1.9m
Heating control	Rotary mechanical temperature control
Safety protection	Manual-reset thermal cut-out and tip-over switch
Installation	Freestanding only, on fitted base
RADI8 warranty	3 years

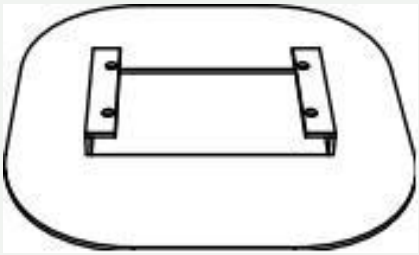
4 SUPPLIED PARTS: A-F



A Heater
1



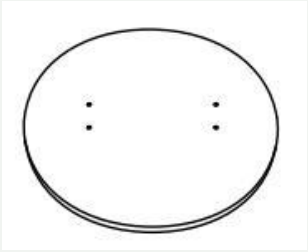
B Instruction manual
1



C Standing base
1



D Truss-head base screws
4; M4 × 12mm



E Deskboard
1; 1600W deskboard models only



F Flat-head deskboard screws
4; M4 × 12mm; 1600W only

Check all parts before assembly. D and F are different screw-head types; use each set only for its intended fixing. Keep packaging and small parts away from children.

5 POSITIONING AND CLEARANCES

Use the heater upright on its fitted base on a suitable, stable, level floor. Keep air openings clear and do not place it on combustible ground or where it may be knocked over.

Keep walls, furniture, curtains and other combustible materials outside the minimum clearances shown. The 1600W deskboard model heats from the front and rear.



Schematic views. Distances are minimums. Keep air openings clear.

Position within reach of a suitable socket without stretching the cable. Route the cable clear of the heater’s hot surfaces and base and avoid trip hazards.

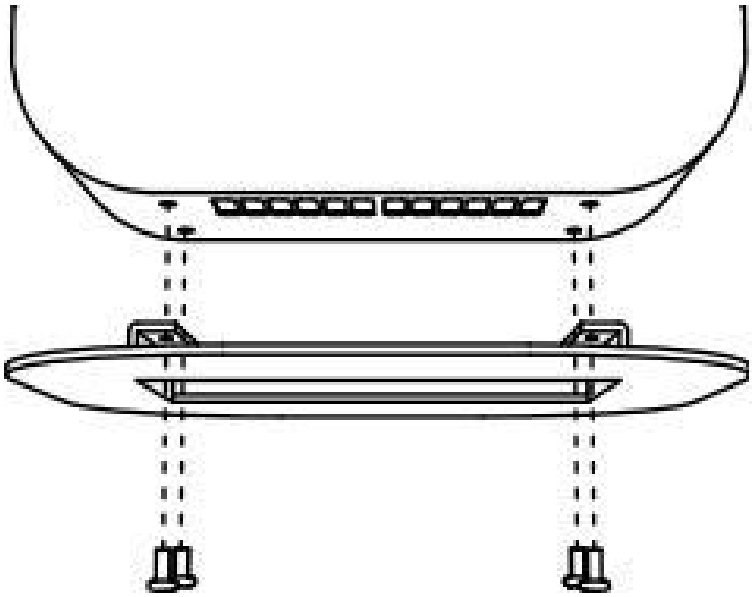
For deskboard models, use only the supplied deskboard in its intended position. Do not place items directly on any other part of the heater or allow anything to obstruct its air openings.

6 FIT THE STANDING BASE

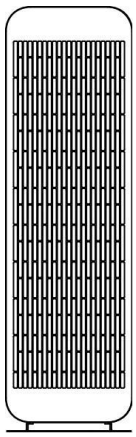
Before assembly
Switch off, unplug and allow the heater to cool completely. Protect the heater from damage while accessing its underside. Do not connect to the supply until the base is secure.

1. Align base **C** with the prepared fixing holes in the underside of heater **A**. Observe the direction shown in the illustration.

2. Secure it using the four **D** truss-head screws, **M4 × 12mm**. Tighten securely without overtightening.



3. Return the heater upright and check that it stands securely and the base does not move.

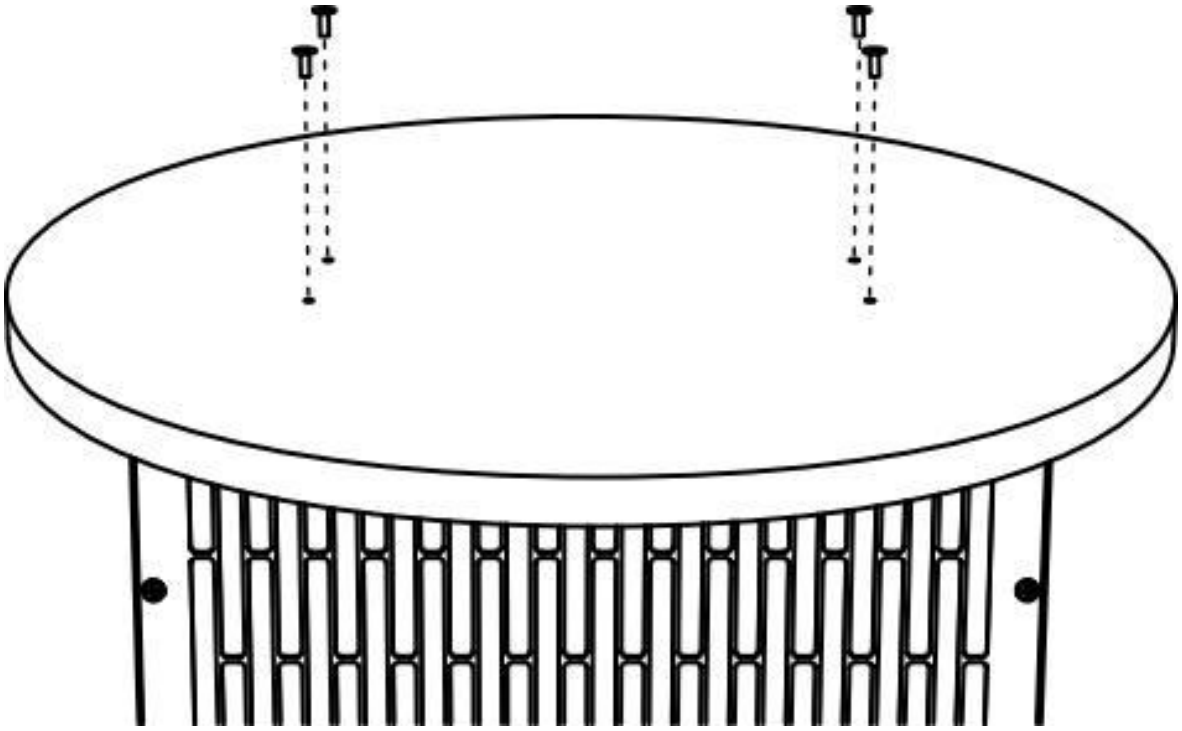


FIT THE DESKBOARD: 1600W ONLY

This section applies only to **FSH1600-B** and **FSH1600-W**. Fit the standing base first. The 1400W and 1900W models do not require this step.

1. With the heater unplugged and completely cool, align the holes in deskboard **E** with the prepared fixing holes on top of heater **A**.

2. Secure the deskboard using the four **F** flat-head screws, **M4 × 12mm**. Tighten securely without overtightening.

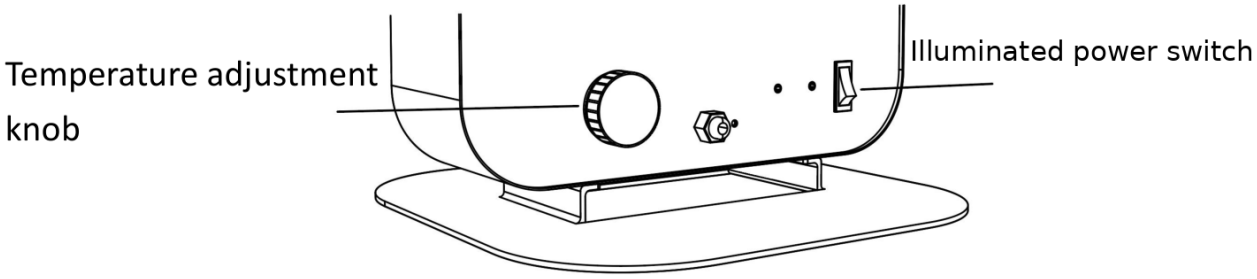


Deskboard safety
Maximum deskboard load: 1 kg at the edges and 5 kg at the centre. Do not lean on the deskboard or use it as a seat, step or handle. Keep the heater’s air openings clear. See page 15 for use and handling.

Check the deskboard and base fixings are secure before use. Do not alter the supplied assembly or substitute the wrong screw type.

7 CONTROLS AND OPERATION

All models have a rotary mechanical temperature control and a separate illuminated power switch.



Illuminated power switch

The power switch illuminates whenever the heater is plugged into the mains. Press the power switch ON to operate the heater or OFF to shut it down.

Rotary mechanical thermostat

The heater’s internal sensor monitors room temperature and the thermostat cycles the heating on and off. Turn the knob clockwise to increase the setting or anticlockwise to reduce it. Turning the knob fully anticlockwise stops heating. The knob has no numbered temperature scale.

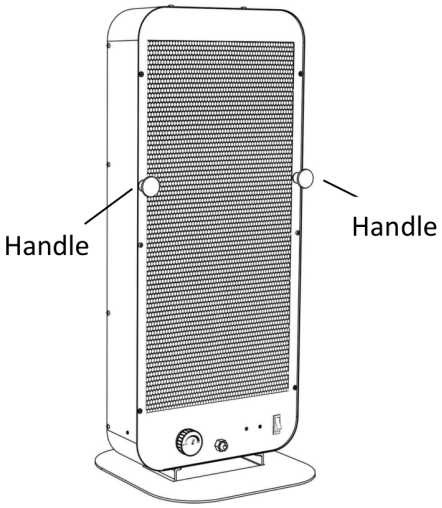
> **Switching off safely**
> Switch off and unplug before moving, cleaning or maintenance. Do not use an external timer or automatic switching device.

MOVING THE HEATER AND DESKBOARD USE

Before moving any model

Switch off, unplug and allow the heater to cool completely. Do not move it while operating or pull it by the power cable. Check that the base is securely fitted before returning it to use.

1400W and 1900W models: handles



Use both rear handles when lifting these models. When disconnected and completely cool, the cable may be wrapped loosely around the handles for storage. Fully unwind it before use.

1600W models: deskboard

These models do not have carrying handles. Once the heater is switched off, unplugged and completely cool, lift it by the heater body. Do not lift or pull it by the deskboard.

The deskboard can help keep food or drinks warm in suitable containers. Its surface reaches approximately 85°C. The maximum permitted load is 1 kg at the edges and 5 kg at the centre. Do not use paper or wooden containers. Keep containers stable and prevent spills reaching the heater or its electrical parts. Do not place food directly on the deskboard or obstruct air openings.

Do not treat the deskboard as a general-purpose work surface or allow anyone to sit, stand or lean on it.

8 THERMAL AND TIP-OVER PROTECTION

Manual-reset thermal cut-out

The heater has a thermal cut-out which can stop heating if the internal temperature becomes excessive. Blocked air openings, covering the heater or using it above the 30°C maximum room ambient temperature can cause overheating.

> **If overheating is suspected**
> If the thermal cut-out activates, switch off and unplug the heater. Check for covering or blocked air openings and correct the cause before plugging it back in. Unplugging and reconnecting resets the cut-out. If it trips again or you cannot identify the cause, stop using the heater and arrange an inspection by a suitably qualified person.

There is no reset button. Do not open the casing or bypass the cut-out.

Tip-over switch

Heating switches off if the heater tips over or is placed horizontally. The switch permits operation again when the heater is upright.

> **After a tip-over**
> Switch off and unplug before righting a fallen heater. Allow it to cool, return it to a stable upright position and check for damage before reconnecting. Do not restart a damaged heater.

The safety devices do not make it safe to cover the heater, leave it in an unstable position or ignore the positioning and supervision instructions.

9 TROUBLESHOOTING

Switch off, unplug and allow the heater to cool before checking it. Electrical inspection or repairs are for suitably qualified persons only.

Issue	Checks and action
Heater stops heating or will not start	Check the mains supply and fitted controls. Ensure it is upright and the rotary setting is increased as required. If overheating is suspected, follow page 16. Stop using it if the fault persists.
Heater stops when tipped or laid horizontally	The tip-over switch has interrupted heating. Switch off, unplug, allow to cool and check for damage before returning it upright. Do not use on an unstable surface.
Minor noises during initial heating	Occasional expansion noises can occur as components warm up. Unusual, loud or persistent noises, or noises accompanied by smell or damage, require the heater to be switched off and inspected.
Slight surface movement during heating	Small thermal expansion can occur. If distortion is significant, persistent, worsening or accompanied by other damage, stop using the heater and arrange inspection.
Warmth is insufficient	Allow time for warm-up and check the rotary setting and clear air openings. Consider the room’s heat loss and positioning without reducing safety clearances. Suspected supply-voltage faults must be investigated by a qualified electrician.
Plug or power cable is damaged	Stop using it and disconnect safely. Have the damaged part repaired or replaced by a suitably qualified person before further use.

Do not touch the heating surface to judge its temperature.

10 CLEANING, MAINTENANCE AND STORAGE

Before starting
Switch off, unplug and allow the heater to cool completely before cleaning or maintenance. Never clean while warm or while connected to the electricity supply.

Cleaning

• Clean with a soft, non-abrasive, lightly dampened, lint-free cloth. Keep moisture out of the casing, controls and electrical connections.

• Never immerse the heater in water or spray it directly. Do not use cleaning sprays, solvents, alcohol-based cleaners, abrasive powders, metal polish or chlorine-based cleaners.

• Wipe dry after cleaning and allow it to dry completely before reconnecting or switching on.

Maintenance

• Check the base, deskboard where fitted, screws, cable and plug periodically. Do not use damaged or defective parts.

• Opening the casing and electrical repairs must only be carried out by suitably qualified persons with the supply disconnected.

Storage

• Store upright in a dry location protected from frost, heat, dust and direct sunlight, with no other objects stacked on top.

• If needed, cover for dust protection only after disconnecting and cooling completely. Remove the cover and fully unwind the cable before use.

11 DISPOSAL AND WARRANTY

Disposal

Do not dispose of this electrical heater with household waste. At the end of its service life, take it to an appropriate collection point for waste electrical and electronic equipment. Your local authority can advise on suitable facilities.

Separate collection allows materials to be recovered and recycled and helps prevent harm to the environment and human health. Recycle packaging where facilities exist and keep plastic bags away from children.

3-year RADI8 warranty

The six RADI8 freestanding heater models listed in this manual, including the 1600W deskboard versions, are backed by a **3-year RADI8 warranty**.

Keep your proof of purchase and the product code and rating-label details. For applicable warranty terms or to raise a warranty query, contact Infrared Heating Supplies using the details on the following page.

Do not attempt unauthorised electrical repairs. Stop using a damaged or faulty heater until it has been assessed and any necessary repairs have been completed by a suitably qualified person.

Your statutory rights are not affected.

Here to help

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

Infrared Heating Supplies

Unit G10A, Hartford House
Weston Street
Bolton
BL3 2AW

01204 520544

infraredheatingsupplies.com

info@infraredheatingsupplies.com

Please have your product code, order details and a photograph of the label or remote control available when contacting us.