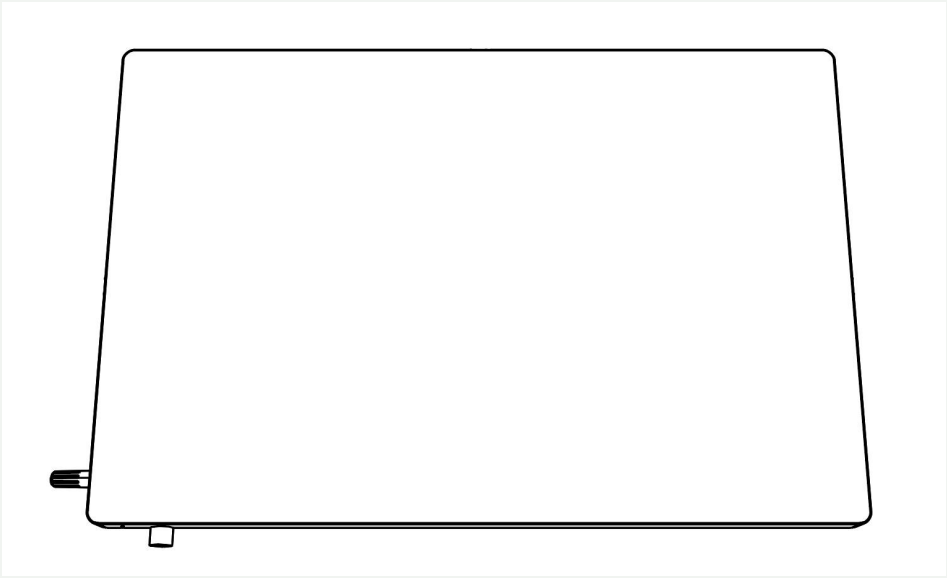
Desktop Infrared Heater

Installation and Operating Manual



90W

Freestanding / Wall / Under-desk

RADI8 MODEL

DT603203GC90

Infrared Heating Supplies

infraredheatingsupplies.com

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About this manual

This manual applies to the RADI8 DT603203GC90 90W desktop infrared heater. Read the product label before installation and retain this manual for future reference. Follow the instructions for the installation method and accessories being used.

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. Disconnect the supply before maintenance.



Do not cover

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



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 in an accessible place for future reference. Failure to follow the warnings and instructions may result in electric shock, fire or serious injury.

Intended use
This panel is for personal warmth in its freestanding or under-desk arrangement, or local wall warming when installed with the heating surface facing the wall. It is not intended to heat an entire room. Do not install it on a ceiling.

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.

Hot surfaces and safe positioning

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
Parts of this heater can become very hot and cause burns. The heating surface can reach 125°C. Do not allow bare skin to touch it. Take particular care when children or vulnerable people are present.

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.

Minimum clearance
Keep the user’s body, clothing and surrounding objects at least 100mm away from the heater. Keep curtains and other combustible materials clear. Do not cover the heater.

The 100mm clearance is separate from the installation spacing established by the appropriate wall or under-desk brackets. Use only the mounting arrangements described in Sections 4-6.

For under-desk use, ensure the user’s legs, feet and clothing cannot enter the clearance space during normal movement. Do not place bags, papers or other items against the panel.

Safety instructions

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

• Use the heater only in a dry indoor location. Do not use it in areas containing flammable or corrosive gases or vapours, or combustible dust.

• Use the support rod for freestanding operation, or secure the panel using the appropriate wall or under-desk mounting kit. Ensure it is stable before use.

• Do not position a freestanding heater on a combustible surface. Keep the heating surface clear of nearby objects and follow the 100mm clearance.

• Do not touch the heater or plug with wet or damp hands. Never operate the heater while it is wet.

• Do not spray water directly onto the heater. Do not use it near baths, shower trays, swimming pools or other water containers.

• Position the heater so its switches and controls cannot be reached by anyone using a bath or shower. An IP20 rating does not provide water protection.

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

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

• Do not allow children or animals to play with the heater or controls. Follow the supervision requirements on page 4.

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

• Switch off, unplug and allow the heater to cool completely before moving, cleaning or storing it.

Electrical safety and checks

• Connect the supplied UK three-pin plug to a suitable, correctly earthed 220-240V, 50Hz mains socket. Ensure the plug is fully inserted.

• 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 required cable length. Fully unwind it before use and do not overload it.

• Before each use, check the heater, accessories, fixings, plug and cable for damage. Do not use damaged or defective parts.

• Protect the power cable from damage, including damage caused by animals. Route it clear of hot surfaces and where it cannot become trapped or pulled.

• If the power cable is damaged, it must be replaced by the manufacturer, an authorised service agent or a suitably qualified person. Do not attempt the repair yourself.

• Grip the plug when unplugging; never pull the cable. Do not touch the mains plug with wet or damp hands.

• Never drill into the heater. Use only the existing mounting holes and specified accessories.

• Protect the temperature sensor from damage and keep it uncovered. If wall mounted vertically, do not position the sensor at the top.

External switching devices
To prevent a hazard caused by unintended 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.

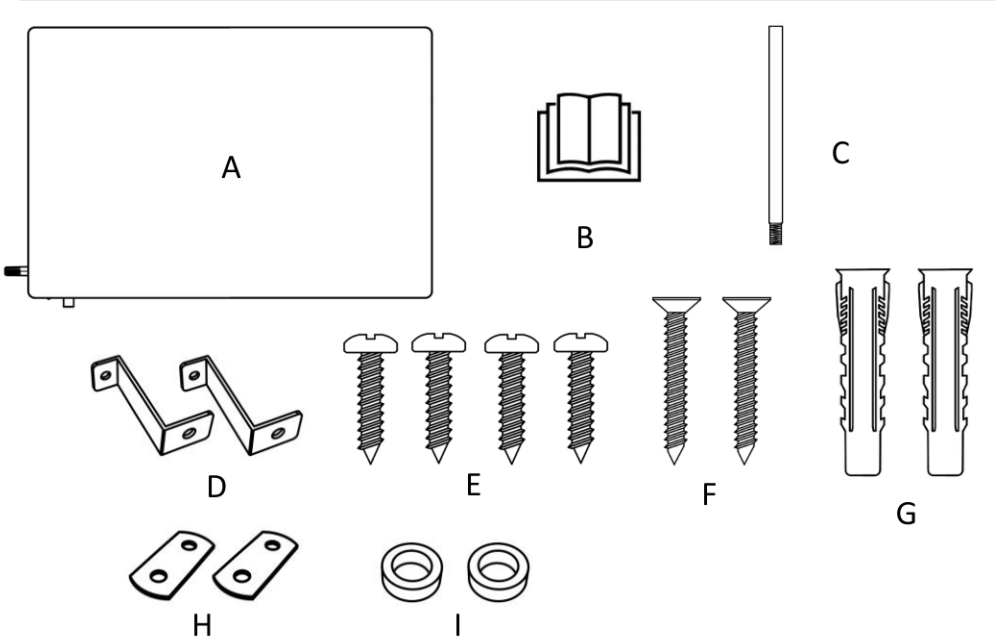
2 TECHNICAL INFORMATION

Specification	DT603203GC90
Rated heating output	90W
Electricity supply	220-240V / 50Hz
Overall dimensions, L × H × D	615 × 216 × 17mm
Net weight	1.1kg
Heating element / heating method	Carbon / far infrared radiant heating
Front coating	Infrared ceramic coating
Frame / rear panel	Aluminium / clad steel
Maximum surface temperature	125°C in all permitted mounting positions
Overheating protection	Yes
Ingress protection	IP20
Power cable length	1.9m
Electrical connection	Supplied UK three-pin plug
Controls	Rotary OFF / 30% / 60% / 100%
Warranty	3 years

Length and height include the sensor and knob. The 17mm panel body depth excludes mounting brackets.

Installation spacing: 25mm between the wall and heating surface for wall mounting; 3mm between the panel rear and desk underside for under-desk mounting. These are not the overall panel body depth.

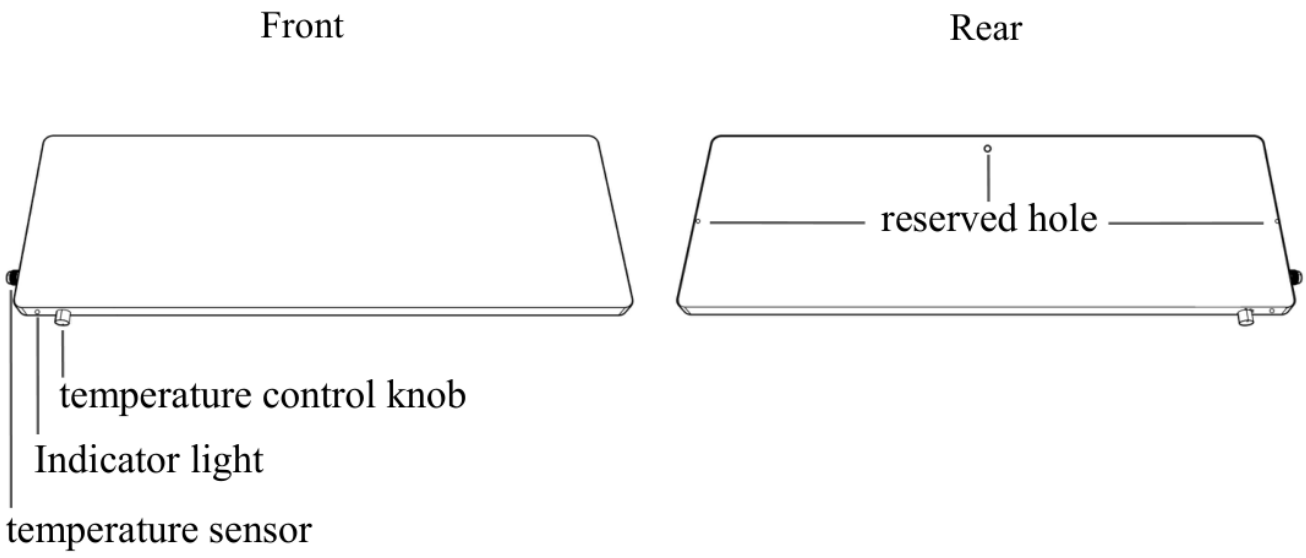
3 PARTS AND ACCESSORIES



Ref.	Part	Quantity
A	Heating panel	1
B	Instruction manual	1
C	Support rod for freestanding use	1
D	Z brackets for wall mounting	2
E	M4 × 12 screws	2 wall / 4 under-desk
F	Self-tapping wall screws	2
G	Wall plugs	2
H	Straight under-desk mounting brackets	2
I	Washers	2 per mounting kit

Wall and under-desk installation require the appropriate mounting brackets, available separately. The pictures identify the parts used for each method; check the contents of the kit purchased before installation.

Panel construction and preparation



Before installing

• Read the product label and check that the model is DT603203GC90. Check the panel and accessories for damage.

• Select the correct installation method and obtain its required accessories. Use only the existing threaded holes on the panel.

• Keep the temperature sensor uncovered and protect it from damage during installation and use.

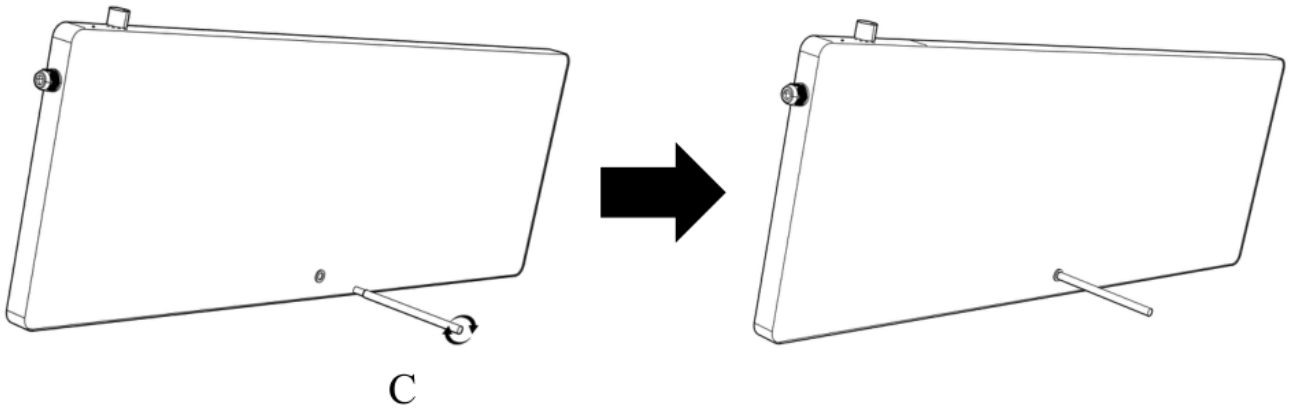
• Choose a location that allows the required clearance, safe cable routing and access to the plug and rotary control.

• Disconnect the electricity supply before fitting or adjusting the support rod or mounting brackets.

Installation limits
Do not ceiling mount this heater. Under-desk installation is permitted only using the specified brackets beneath a suitable wooden desk, with the heating surface facing down.

4 FREESTANDING INSTALLATION

Use the support rod (C) to hold the panel in its intended tilted position.



1. With the heater unplugged and cool, screw the support rod (C) into the pre-installed threaded nut on the rear of the panel.

2. Place the heater upright in the tilted position shown. Ensure the rod is secure and the panel is stable on a suitable non-combustible surface.

3. Position the heating surface towards the area where personal warmth is required. Keep the user’s body, clothing and surrounding objects at least 100mm away.

4. Route the cable safely and ensure the sensor is not covered. Connect the plug and select the required heating level as described in Section 7.

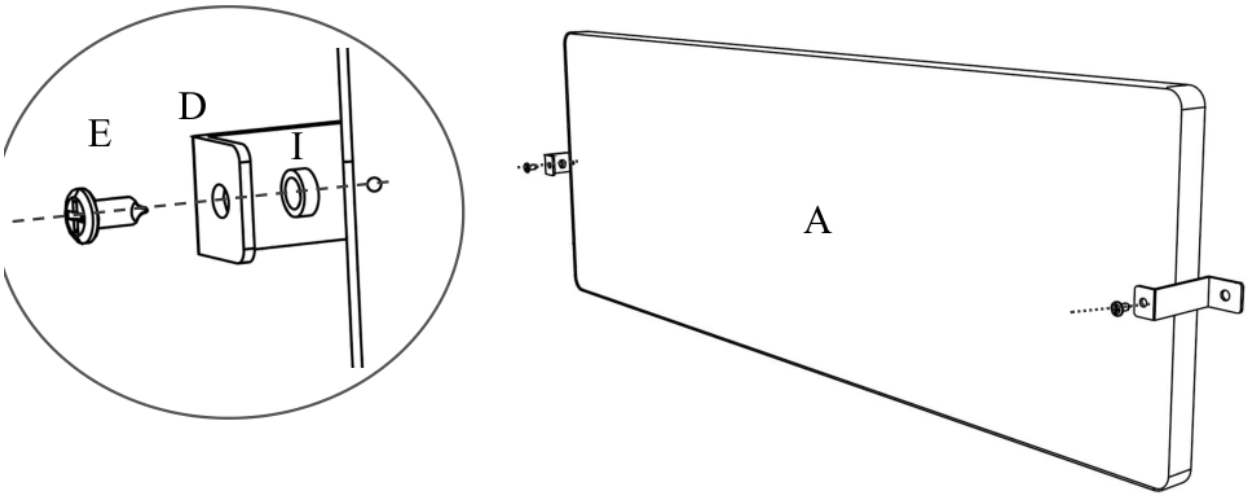
Safe use
Do not lean against the panel or use it as a footrest. Switch off and unplug the heater, then allow it to cool completely before moving it.

5 WALL INSTALLATION

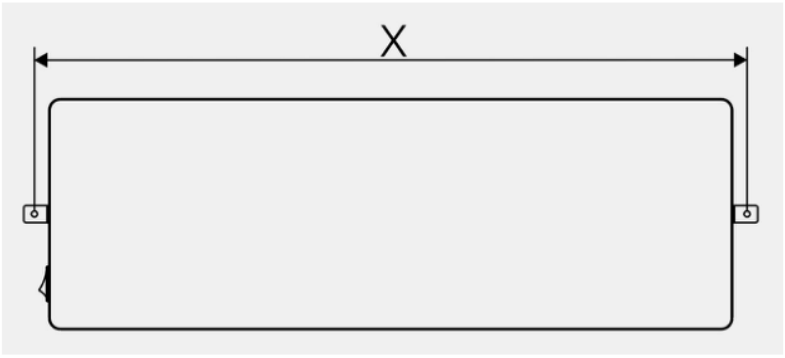
Heating surface direction
In this arrangement, the heating surface faces the wall for local wall warming. It is not a wall-mounted room-heating arrangement. Use the Z brackets (D).

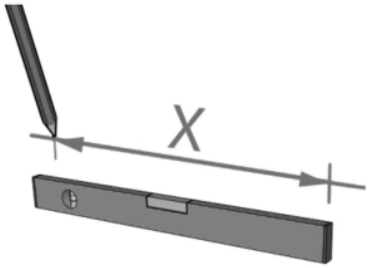
If installing vertically, ensure the temperature sensor is not at the top, as this can affect its readings.

1. Place a washer (I) and M4 × 12 screw (E) through the hole on the short side of each Z bracket (D), as illustrated. Tighten the screws into the existing threaded holes on the rear of the panel (A).



2. Measure the distance between the fixing holes in the fitted brackets and mark the drilling positions on the wall.

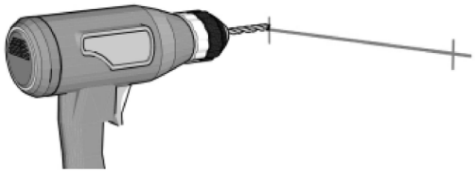




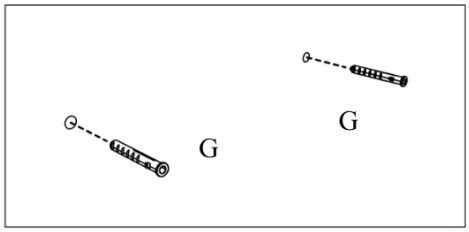
Check the wall and fixing locations before drilling. The wall and fixings must securely support the heater. Avoid concealed electrical cables and pipes.

Wall fixing and final checks

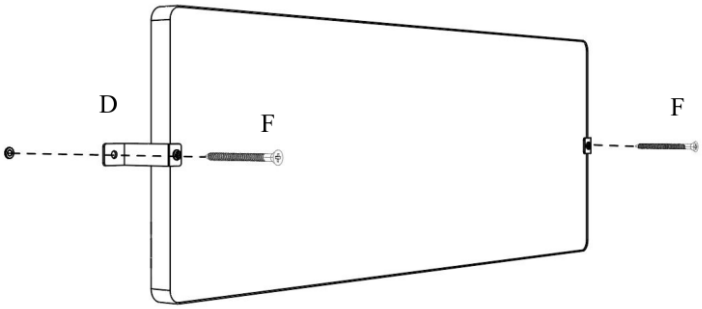
3. For the supplied wall plugs, drill two 8mm-diameter holes at the marked positions. Do not make the holes larger than specified.



4. Insert the wall plugs (G) into the prepared holes.



5. Secure the long side of each Z bracket to the wall using the self-tapping screws (F). Ensure the panel is firmly supported and the heating surface faces the wall.



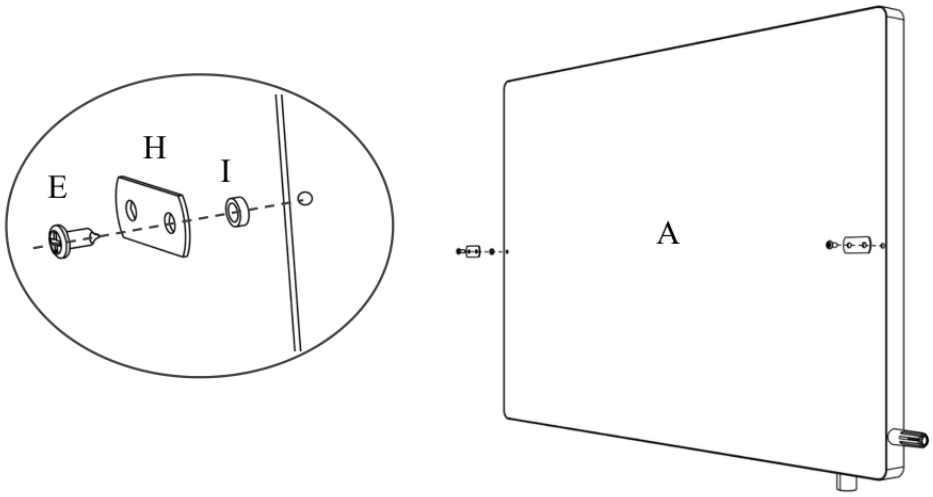
With the Z brackets fitted, leave 25mm between the wall and heating surface. Keep the sensor uncovered and the cable clear of hot surfaces.

Use fixings suitable for the actual wall construction. Concrete and timber are suitable substrates; use fixings appropriate to the material. Wall plugs are normally unnecessary when fixing directly into sound timber. For plasterboard, the board condition, thickness and fixing capacity must be checked before installation. Do not assume every plasterboard wall is suitable.

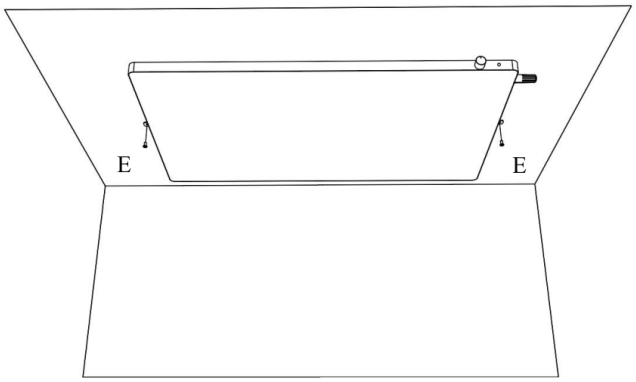
6 UNDER-DESK INSTALLATION

Mounting direction
For suitable wooden desks only. Use the straight mounting brackets (H) and fit the panel with its heating surface facing down towards the user's legs.

1. Fit each straight bracket (H) to the rear threaded holes of panel (A), using a washer (I) and M4 × 12 screw (E), as shown.



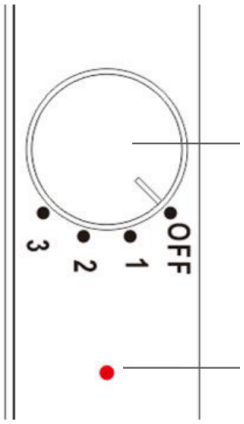
2. Position the panel beneath the desk. Secure the brackets to the desk using screws (E) through the remaining bracket holes, as illustrated.



The rear-to-desk gap is 3mm. Keep the user's body, clothing and surrounding objects at least 100mm from the heater. Ensure the fixings are secure, the sensor remains uncovered and the power cable is not trapped.

7 CONTROLS AND OPERATION

Ensure installation is complete, all protective film has been removed, and the required clearance is maintained. Connect the supplied plug to a suitable mains socket.



OFF - heating off

1 - 30% operating time

2 - 60% operating time

3 - 100% operating time

Indicator: red at levels 1-3

Rotary setting	Heating operation	Indicator
OFF	Heating off	Off
Level 1 / 30%	Heating on for approximately 30% of the operating time	Red
Level 2 / 60%	Heating on for approximately 60% of the operating time	Red
Level 3 / 100%	Full heating operation, subject to protective controls	Red

What the percentages mean

The percentages control how long the heating element operates, rather than reducing its wattage while it is on. For example, at the 30% setting the element heats for approximately 30 seconds in a 100-second period. This is an explanation of time-based operation, not a selectable timer.

The red indicator stays illuminated whenever Level 1, 2 or 3 is selected, including pauses in heating. It does not confirm that the element is drawing power continuously.

Turn the knob to OFF to stop heating. Unplug the heater when it is not in use and allow it to cool before moving or cleaning it.

8 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, unplug the heater and have it inspected by a suitably qualified person before using it again.

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 distortion is pronounced, worsens or remains after the heater has cooled, stop using it and have it inspected by a suitably qualified person.

The heater is not warming as expected

Check that the plug is fully inserted, the socket supply is on and the rotary knob is set to a heating level. At 30% or 60%, the element pauses as part of its normal time-based operation. Allow time for the panel to warm up. Do not touch the heating surface to check it.

The panel is only slightly warm

A cold environment or low supply voltage may affect heating performance. If performance remains poor after checking the selected heating level and allowing time for warm-up, switch off and have the heater and supply checked by a qualified electrician. Do not open the panel yourself.

The red light is on but heating has paused

The indicator stays red at all heating settings, including pauses in heating. If the heater remains cold or its operation appears abnormal, switch it off, unplug it and have it inspected by a suitably qualified person. Do not bypass its protective controls.

A plug, cable or connection is damaged

Stop using the heater and disconnect the supply if safe to do so. Have a damaged plug, cable or electrical connection repaired or replaced by a qualified electrician or another suitably qualified person before using the heater again. Do not use temporary repairs or attempt to repair a damaged supply cable yourself.

9 CLEANING, SERVICING AND STORAGE

Before cleaning or maintenance

Switch off the heater, disconnect it from the electricity supply and allow it to cool completely. Grip the plug when unplugging; never pull the cable. Do not touch the mains plug with wet or damp hands.

Servicing and repairs

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

Cleaning

Clean the heater with a soft, lint-free cloth lightly dampened with water. Never immerse it 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.
- Keep it 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.

10 DISPOSAL, WARRANTY AND SUPPORT

Removal and disposal

Switch off and disconnect the electricity supply. Allow the heater to cool completely and support it securely before releasing any mounting fixings.

The crossed-out wheelie bin symbol means 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.

3-year RADI8 warranty

This RADI8 90W desktop infrared heater has a 3-year warranty. For 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

Infrared Heating Supplies
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Weston Street, Bolton, BL3 2AW

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infraredheatingsupplies.com

Before contacting us, have your order details, RADI8 code DT603203GC90 and a clear photograph of the product label available.

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