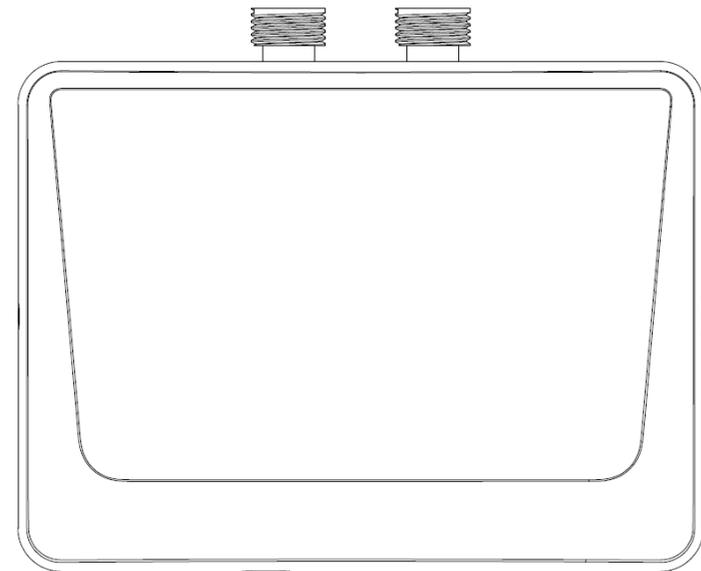




Inline Instant Water Heater RIWH6



Installation and User Guide

IMPORTANT:
This booklet should be left with the user after
installation and demonstration

Full details of terms and conditions are available on request from:-



A brand of the GDC Group Limited, trading as:

Glen Dimplex Heating & Ventilation
Millbrook House, Grange Drive,
Hedge End, Southampton, SO30 2DF

Website: www.redring.co.uk

Rev B (Sept 2018) A5

Contents

Installation Guide

1 – Important Safety Information	3
2 – Installation	4
3 – Mounting the unit	4
4 – Plumbing Connections	5 - 6
5 – Electrical Connections	6 - 7

User Guide

1 – Operating the unit	8
2 – Maintenance	8
3 – Specification	9
4 – Energy Related Product Directive (ErP)	9
5 – After Sales Service	9
Warranty	11

Thank you for purchasing the Redring Inline Instant Water Heater RIWH6.

The Redring RIWH6 is energy efficient as it only consumes energy when it is running and there are no standing losses. The unit rapidly heats up to provide a near instant supply of hot water.

The unit is intended for hand wash applications and should be used in conjunction with a suitable spray head tap.

Please read these instructions before installation, and leave with the user when complete.

IMPORTANT: This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Do not operate the heater if it is frozen, or suspected of being frozen. It must be completely thawed out before using.

WARRANTY

Terms and Conditions for UK (outside UK contact your local distributor)

Your Redring Inline water heater warranty is valid for the period of 12 months from the date of purchase.

Within the warranty period we will replace, or refund any faulty unit that is subject to any manufacturing defects in the product due to faulty workmanship or material, on the condition that:

- A) The appliance has been correctly installed in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- B) The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- C) The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- D) Evidence of the date of purchase in the form of an invoice or receipt will be required in order to qualify for an in-warranty replacement unit or refund.
- E) For the service work to be free of charge, the work must only be undertaken by a GDHV service engineer, or a GDHV approved agent.
- F) Service under warranty has no effect on the expiry date. The warranty on any exchanged parts or product ends when the original warranty period ends.

EXCLUSIONS

This warranty DOES NOT cover damage or defects arising from poor or incorrect installation, improper use or lack of maintenance, including build-up of lime-scale. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

If we are called out to a fault, which is subsequently identified as being an installation fault, we will make a charge.

We make no warranties as to response times for the fitting of a replacement unit. We will endeavour to achieve the most timely response possible, but while we indicate an average response time, this should not be taken as a guarantee.

The warranty applies to the replacement, or refund (at our discretion), of the product, subject to the conditions above, and DOES NOT cover compensation for the loss of the product or consequential loss of any kind.

The warranty does not apply to the repair or replacement of accessories, isolating switches, electrical cable, fuses and/or circuit breakers.

This warranty does not affect your statutory rights.

INSTALLATION GUIDE

1. Important Safety Information:

All Redring products are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.



ELECTRICAL SUPPLY: The Inline unit must only be connected to a single phase supply that conforms to the specification stated on the rating plate. The appliance must be permanently connected to the electrical supply through an isolation switch with a contact separation of no less than 3mm in all poles.



IMPORTANT: Isolate the electrical and water supply before installation.



IMPORTANT: Check that there are no hidden cables or pipes before drilling holes for the wall plugs. Choose a flat piece of wall to avoid the possibility of distorting the back plate and making the front cover a poor fit. Exercise great care when using power tools near water. The use of a residual current device (RCD) is recommended.



IMPORTANT: Before connecting the water supply to the unit the water supply pipe should be flushed out to remove all debris. After flushing the pipework, make the connections to the inlet and outlet and ensure the unit is positioned squarely on the wall with all fixing screws tightened.



IT IS VERY IMPORTANT: To ensure that the terminal block screws are fully tightened and that no cable insulation is trapped under screws, and tighten periodically in accordance with BS 7671. The earth continuity conductor of the electrical installation must be effectively connected to all exposed metal parts of other appliances and services in the room in which the unit is installed to conform with BS 7671.



IMPORTANT: The unit **MUST** be filled with cold water before the power supply is switched on.



IMPORTANT: The unit **MUST** be fitted with a WRAS (Water Regulations Advice Scheme) listed mains water isolating valve.



IMPORTANT: **NEVER** remove the cover from the unit without isolating it from the electrical power supply.

2. Installation:

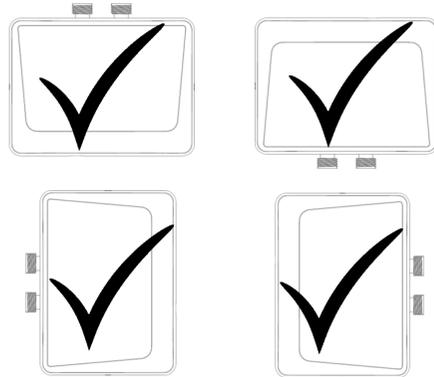


DO NOT install if there is a risk of water freezing in the heater.



DO NOT install the heater where the consequences of a leak could be unusually severe. (e.g. Above computer equipment).

- When choosing a location for the heater, consider the visibility of any leak that may arise. This is particularly important when locating in a concealed area, such as a cupboard.
- The heater **MUST** be mounted on a flat vertical wall with the inlet and outlet connections in any one of the four orientations shown below.
- The heater is supplied with a 0.7 m length of 3 core, 4 mm² cable pre-fitted.



The heater should be located as close as practical to the hot water outlet.

This will avoid unnecessary heat losses through the pipework.

The water temperature will be lower if the outlet is a long way from the heater unit.

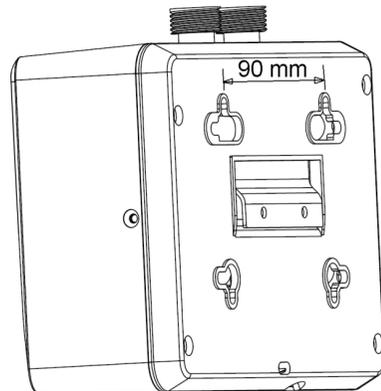
3. Mounting the unit:

There are two options for mounting the unit :

1. Use the key slot holes at the rear of the product: Use two mounting screws set at the desired height and 90 mm apart. Leave the screws proud by 3 mm so that the "keyhole" slots in the back-plate can latch over the end of the screw head.

The four slots provided allow the unit to be mounted in any one of four orientations.

(See options shown above).



3. Specification:

Model	RIWH6
Power Supply	230V - 240V (50 Hz)
Dimensions	H140 X W190 X D80mm
Power	5510W - 6000W
Protection class	IPx4
Rated Current	27A
Over heat protection temperature	80°C
Minimum operating flow rate	2.0 l/min
Minimum operating pressure	0.1 Mpa (1 bar / 15 psi)
Maximum rated pressure	0.75 Mpa (7.5 bar / 108 psi)
Minimum permitted water resistivity	1300 Ωcm
Maximum permitted inlet water temperature	60°C
Water fittings	½" BSP

4. Energy Related Product Directive (ErP):

Manufacturer	REDRING
Product	Inline Water Heater RIWH6
Load Profile	XS
Efficiency Class	A
Efficiency	39%
Consumption (kWh / annum)	458
Sound (dB)	15
Precautions	Please ensure all product installation, maintenance and care instructions are followed, as shown in this handbook.

5. After Sales Service:

We offer a technical advisory service on the telephone to installers and other customers with problems in the field.

RING 0344 879 3588 (UK ONLY)

Remember to quote type of unit, as written on the rating label and on this leaflet.

USER GUIDE

1. Operating the unit:

Normal Operation

Once installed and connected to the water and electrical supply, the heater is ready for use.

The unit will automatically operate when the hot water tap, connected to the outlet, is turned on.

When the flow of water through the heater is greater than 2.0 l/m the internal heaters will activate and heat up the water.



NOTE: The water is heated instantly, as it passes through the heater. The outlet temperature is set by the rate of flow through the heater.



The higher the flow rate, the lower the temperature.

2. Maintenance:



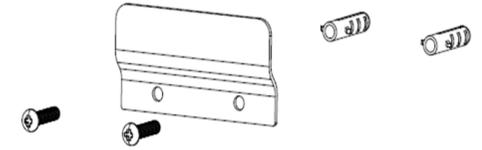
WARNING: Isolate the electric supply before carrying out any cleaning or maintenance.



IMPORTANT: DO NOT clean the unit with abrasive or solvent based cleaning fluids.

- The cover of the unit can be cleaned with a damp cloth.

2. Use the supplied bracket, with two mounting screws, to support the unit.
(Only applicable when the unit is mounted with the water couplings pointing upwards).



IMPORTANT: Check that there are no hidden cables or pipes before drilling holes for the wall plugs.

4. Plumbing Connections:

The heater is designed for use with spray head type taps.

Suitable for use with pre heated water up to 60°C. (e.g. Solar heating systems).



IMPORTANT: Ensure the following criteria are met for the water supply:

- Minimum flow = 2.0L/min
- Pressure Min/Max = 0.1Mpa/0.75Mpa (1 bar/7.5 bar)



WARNING: The resistivity of the water:

- MUST NOT be lower than 1300 Ωcm (at 15°C).



IMPORTANT: Flush supply pipes to remove any debris before connecting the heater to the water supply.

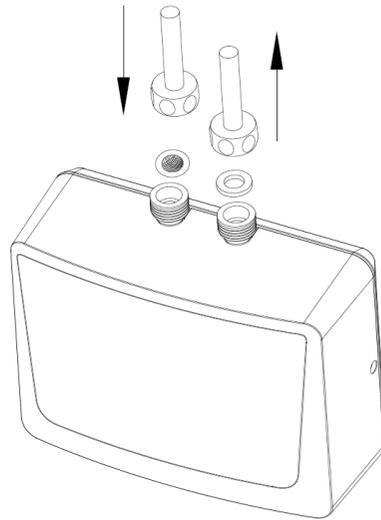
Make the plumbing connections as indicated on the front cover of the heater:

- Blue/Inlet (Cold mains) – Left hand side, (when mounted as shown).
- Red/Outlet (Hot tap/Outlet) – Right hand side, (when mounted as shown).

Fit the supplied gauze into the inlet connection on the unit.

If required, fit a spray head flow limiter to the outlet of the hot tap. (Not supplied).

(A spray head flow limiter can be used to ensure a more consistent outlet water temperature from the unit).



Ensure the power supply remains Off :

Turn on the cold mains supply and then open the hot outlet tap. Let the water flow through the heater for several minutes.

Ensure there is a smooth flow of water from the outlet and that there are no air pockets trapped in the supply pipework.

(The removal of air pockets, with the power supply off, must be carried out whenever the heater has been drained for any reason, such as a routine maintenance).

Check for leaks on all connections.

5. Electrical Connections:



WARNING

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The electrical installation must be in accordance with the current BS 7671 (I.E.T. wiring regulations) and part P of the building and / or local regulations.

The heater is designed for a single phase 230-240V 50 hz ac 30A electrical supply.



WARNING: The heater **MUST** be earthed.



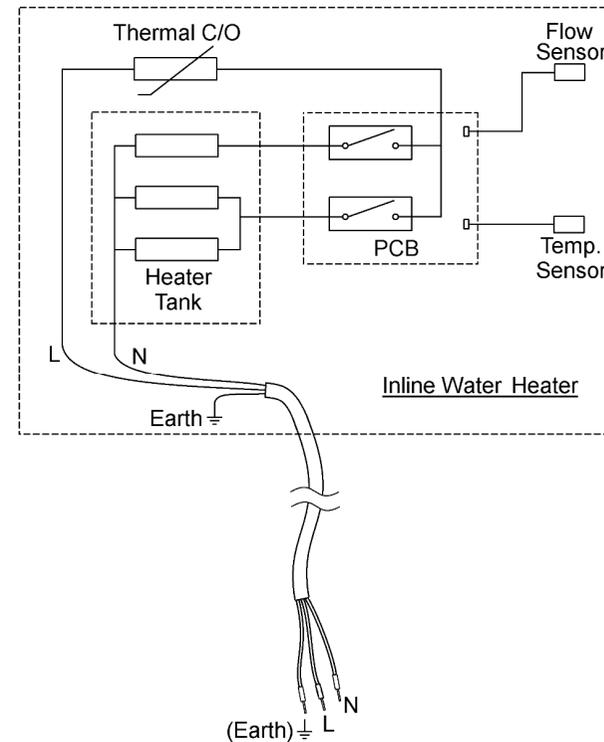
WARNING: Isolate the electric supply before installation.

IMPORTANT: The heater provides 5510W at 230V ac and 6000W at 240V.

The unit **must be permanently connected** to the electrical supply, direct from the consumer unit via an electrical isolation switch with a minimum contact gap of 3 mm in both poles. The switch must be readily accessible and clearly identified and sited adjacent to the unit. The wiring must be connected to the switch without the use of a plug or socket outlet.

*The unit comes supplied with a short length of 3 core cable already attached. This **MUST** be wired directly to an adjacent local isolator switch.*

Schematic wiring diagram below



IMPORTANT

Ensure that the supply cable terminations in the adjacent isolation switch are fully tightened, and that no cable insulation is trapped. Terminal block screws should be tightened periodically in accordance with BS 7671.



IMPORTANT

The earth continuity conductor of the electrical installation must be effectively connected to all exposed metal parts of other appliances and services in the room in which the unit is installed, to conform with BS 7671