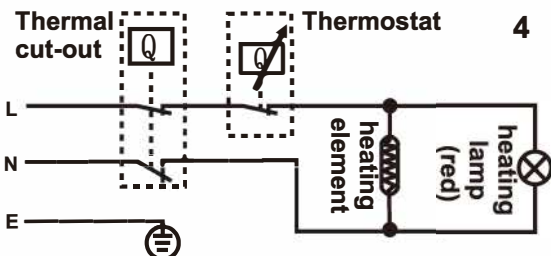


Hook unit on the wall bracket (diagram 3)
ATTENTION! Don't place objects, which are not waterproof under the appliance under any circumstances.



Water heater connection to the water supply system

All connections are ½" BSP. Fasten the dielectric junctions to both Hot and Cold connections.

IMPORTANT note that in ALL cases the DIELECTRIC JUNCTIONS MUST be connected to the heater before any other connection is made. This is very important as they prevent an electrolytic reaction occurring and safeguard the heater against potential aggressive corrosion.

Only the use of copper pipe is recommended for connection to the heater. If any other material is used it must be able to withstand 90°C at 8 bar pressure for long periods.

Fit Pressure relief valve in the cold water feed to the unit close to the inlet (blue) and install the pipework from the valve to drain via a tundish.

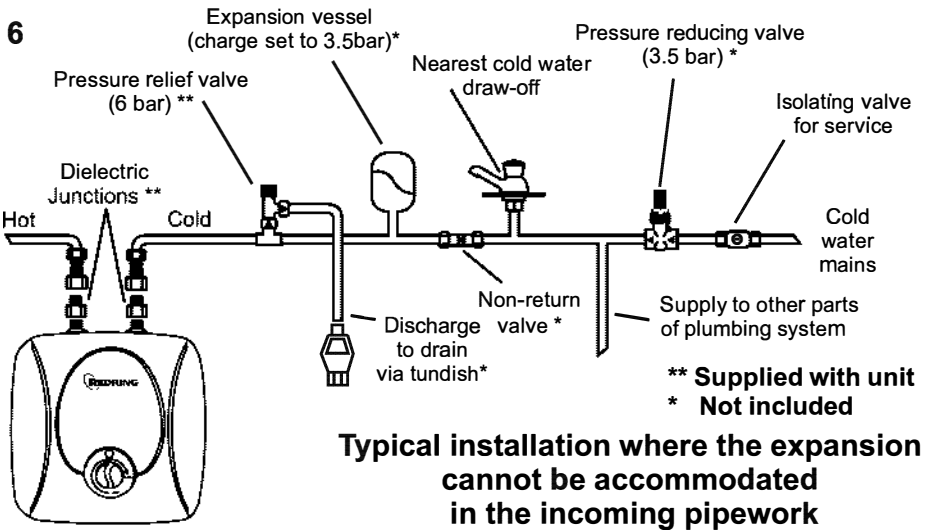
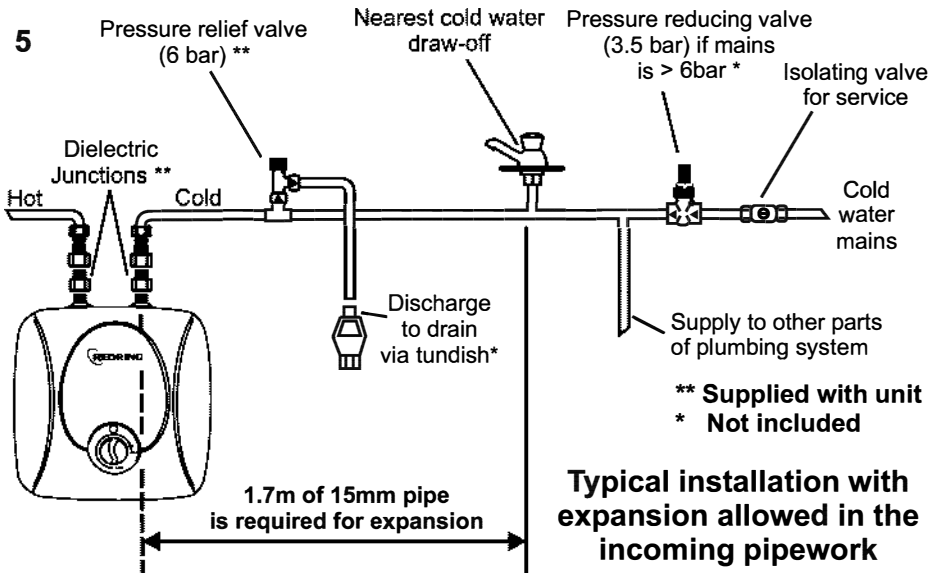
When water is heated it expands. In a small unvented water heater of this type the expansion can normally be accommodated back into the cold water mains, as indicated in the water regulations.

This heater requires a minimum of 1.7metres of pipe prior to the nearest cold water draw off. (see diagram 5).

IMPORTANT. If the mains supply to the unit is in excess of 6bar a pressure reducing valve will be required to prevent the pressure relief valve from discharging all the time.

IMPORTANT. DO NOT fit any stop-cocks or non-return valves within the distance required for expansion. The 1.7metre distance is for 15mm pipe this can be approximately halved for 22mm pipe.

Where this is not possible the installer will need to fit a set of cold water controls. Which comprises of a pressure reducing valve (set at 3.5 bar), a non-return valve and expansion vessel charged to 3.5 bar, the expansion is then accommodated in the vessel.(see diagram 6)



PERIODIC MAINTENANCE

In hard water areas, with normal use lime scale will be deposited upon the heating element's surface. Over time, this builds up and lessens the heat exchange between the heating element and water, which could make the system run hotter and the thermostat may switch on and off more frequently.

Redring recommends preventive maintenance of your water heater at least **EVERY** year by a qualified technician. Protective maintenance must include cleaning and inspection of the anode protector, replacing it if necessary.

In order to clean the appliances use a damp cloth. Do not clean with abrasive or detergents that contain solvents. Do not pour water over the appliance.

IMPORTANT!! The mounting of the pressure relief valve supplied with the water heater is compulsory. It must be installed on the cold water supply pipe.

Exception: If local regulations (norms) require the usage of another protection valve or mechanism (in accordance with EN 1487 or EN 1489), then it must be bought and fitted separately. For mechanisms operating in accordance with EN 1487, the rated operational pressure must be no more than 0.7 Mpa (7 Bar). For other protection valves, the pressure at which they are calibrated must be 1bar lower than the one marked on the appliance.

NB- *In the circumstances above only, the safety valve which the appliance is supplied with should not be used.*

ATTENTION! *Any other type of device should not be fitted between the pressure relief valve and the appliance.*

ATTENTION! *Fixing the pressure relief valve to threads longer than 10 mm should not be attempted as this could damage the valve.*

ATTENTION! *The pressure relief valve and the pipe between the valve and the water heater must be protected from freezing. During valve discharging - its free end must be always open to the atmosphere (not immersed in water). We recommend the use of a tundish.*

The water heater is filled with water by opening the isolation valve on the cold water supply system and the hot tap on the sink. After the filling process is complete, a constant stream of water should flow from the hot tap. Now you can shut the hot water tap on the sink.

If emptying the water heater, you must first isolate the power supply then close the service valve and open the hot tap to depressurise the system before removing the unit from the wall.

MAINTENANCE

Sacrificial Anode

In order to obtain the best performance from the heater, the sacrificial anode must be checked every year.

The magnesium anode protects the water tank's inner surface from corrosion. It undergoes wear and tear and should be replaced periodically by the user.

Redring recommend periodic inspections of the magnesium anode's condition by a qualified technician and replacement whenever required to keep your appliance working correctly.

Fault finding

If the unit is unsatisfactory, make the following checks before calling out the installer. Any one of these adjustments could restore the performance.

WARNING: SWITCH OFF THE ELECTRICITY AT THE ISOLATING SWITCH

BEFORE REMOVING THE COVER TO MAKE CHECKS

SYMPTOM	POSSIBLE CAUSE	ACTION
Pressure relief valve dripping / running very hot water all the time	Thermal cut out and thermostat have failed. Mains pressure is above 600 kPa (6 bar)	Call Installer/suitably qualified person. A pressure reducing valve must be fitted.
Pressure relief valve dripping / running all the time.	Mains pressure is above 600 kPa (6 bar).	Call Installer/suitably qualified person. A pressure reducing valve must be fitted
Dripping while unit heating.	Not enough pipe work for expansion (1.7m required) Stop-cock, non-return valve or pressure reducing valve has been fitted within the distance required for expansion (see page 8, diagram 5). If an expansion vessel has been fitted, the charge may have failed	Call Installer/suitably qualified person, and modify installation (see page 8, diagram 5). Replace accordingly. Call suitably qualified person.
No hot water.	Thermal cut-out has operated. The heating element has burnt-out. The thermostat is faulty.	Replace accordingly. Call Installer/suitably qualified person
Milky water.	This is a result of heavily limed and oxygenated water being heated.	This is harmless and the cause is the water and not the heater.
No water at all.	Mains water supply turned off. Valve incorrectly fitted. Debris in the mains.	Switch on mains water supply. Call Installer/suitably qualified person.
Indicator lamp does not illuminate	No power to unit indicator damaged thermal cutout operated	Check unit switched on Call Installer/suitably qualified person to check wiring & indicator lamp

After Sales Service

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

— **Tel: 0344 879 3588**

Remember to quote the exact model of unit, as written on the front of the unit and on this leaflet

ANNEX 1

Water heaters in accordance with EU regulation 812/2013

Trade Mark	Redring
Model	MS 6
The declared load profile	XXS
Water heating efficiency	class B
Water heating energy efficiency	32.5%
The annual electricity consumption AEC kWh/annum	567
Thermostat temperature setting (°C)	65

Water heaters in accordance with EU regulation 814/2013

Model	MS 6
Daily electricity consumption Qelec (kWh)	2.73
Declared load profile	XXS
Mixed water at 40°C V40 (L)	13
Maximum temperature of the thermostat Tmax (°C)	65
Water heating energy efficiency nwh	32.5%

The unit is provided with a 13 Amp 3 pin UK plug, however if the installation requires it to be removed the flexible cables are colour coded as follows:-

Brown	Live
Blue	Neutral
Green and Yellow	Earth

**Millbrook House, Grange Drive
Hedge End, Southampton, SO30 2DF**

**Technical Service Tel: +44 (0) 3448793588
Customer.services@glendimplex.com**

GlenDimplex 
HEATING & VENTILATION

UK Only

What does a Redring warranty cover?

Redring products deliver reliable source for normal, household use in domestic settings. All Redring products are individually tested before leaving the factory. If you are a consumer and you experience a problem with your Redring product, which is found to be defective due to faulty materials or workmanship within the warranty period, this Redring warranty will cover repair or - at the discretion of Redring - replacement with a functionally equivalent Redring product.

The Redring warranty period is one calendar year from the date of purchase of your Redring product, or the date of delivery of the product, if later. The Redring warranty is conditional upon you providing the original purchase receipt as proof of purchase. Please therefore retain your receipt as proof of purchase.

If you do experience a problem with your Redring product please call the helpline on +44 (0)344 879 3588 or at the address below.

We will need details of your Redring product, and a description of the fault which has occurred. Once we receive your information and proof of purchase we will contact you to make necessary arrangements.

Customers outside UK - see international below.

If your Redring product is not covered by this Redring warranty there may be a charge to repair your product. However, we will contact you for agreement to any charges before any chargeable service call is carried out.

What is not covered by a Redring warranty?

The Redring warranty does not cover any of the following:

Any fault or damage to your Redring product due to faulty materials or workmanship occurring outside the one year warranty period.

Any fault or damage occurring to any pre-owned Redring product or to any other equipment or property.

Accidental damage to your Redring product or damage to your Redring product from an external source (for example, transit, weather, electrical outages or power surges).

Fault or damage to your Redring product which is:

Not due to faulty materials or workmanship or which is due to circumstances outside Redring's control.

Caused by use of your Redring product for anything other than normal domestic household purposes in the country where it was purchased.

Caused by any misuse, abuse or negligent use of the Redring product, including but not limited to any failure to use it in accordance with the Operating Instructions supplied with the product.

Caused by any failure to assemble, install, clean and maintain your Redring product in accordance with the Operating Instructions supplied with the product unless this was carried out by Redring or its authorised dealers.

Caused by repairs or alterations to your Redring product not carried out by Redring service personnel or its authorised dealer(s).

Caused by the use of any consumables or spare parts for your Redring product which are not Redring specified.

Terms and Conditions

The Redring warranty is valid for Redring from the date of purchase of your Redring product from a recognised retailer in the country of purchase and use, or the date of delivery of the product if later, always provided the original receipt has been retained and is produced as proof of purchase.

You must provide to Redring or its authorised agents on request the original receipt as proof of purchase and - if required by Redring - proof of delivery. If you are unable to provide the documentation, you will be required to pay for any work required.

Any repair work under the Redring warranty will be carried out by Redring or its authorised dealer(s) and any parts that are replaced will become the property of Redring. Any repairs performed under the Redring warranty will not extend the warranty period.

Any replacement of your Redring product by Redring during the warranty period will start the one year warranty period afresh from the date of delivery of the replacement Redring product to you.

The Redring warranty does not entitle you to recovery of any indirect or consequential loss or damage including but not limited to loss or damage to any other property.

The Redring warranty is in addition to your statutory rights as a consumer and your statutory rights are not affected by this Redring warranty.

Contact Redring

If you have any questions about what the Redring warranty covers and does not cover or how to claim under the Redring warranty, please contact us using the information below.

Contact Details

Millbrook House, Grange Drive, Hedge End, Southampton, SO30 2DF

Telephone: +44 (0) 344 879 3588

Email: customer.services@glendimplex.com

<http://www.redring.co.uk>

International

Guarantee: Contact your local distributor or Redring direct for details.

Technical Advice and Service: Contact your local Redring distributor.

Redring: A brand of GDC Group Limited, trading as Glen Dimplex Heating & Ventilation

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For electrical products sold within the European Community. At the end of the electrical products useful life it should not be disposed of with household waste. Please recycle where facilities exist. Check with a Local Authority or retailer for recycling advice in your country. Batteries should be disposed of or recycled in accordance with WEEE Directive 2012/19/EU. Packaging should be recycled where possible.



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