

# READ AND SAVE THESE INSTRUCTIONS FOR THE BENEFIT OF THE USER

## Important!

- All installations must be supervised by a qualified Electrician and Plumbing Engineer.
- Installation wiring must conform to the current IEE Regulations (UK) or Local Appropriate Regulations (outside the UK).
- Installation of pipework must conform to current Water Bylaws or local authority regulations.
- This product is intended for connection to fixed wiring with a protective fuse not exceeding 15A (recommended 13A) and must be supplied via a double pole isolating switch with a minimum contact gap of 3mm.
- Check that the electrical rating on the unit matches the mains electrical supply. The rating plate is situated on the underside of the unit.

## SAFETY WARNING

- **WARNING - THIS PRODUCT MUST BE EARTHED.** We recommend that equipotential earth bonding connections should be made from the terminal supplied.
- **DO NOT INSTALL THIS PRODUCT IN A ROOM WHERE IT MAY BE SUBJECT TO FREEZING.** THIS PRODUCT MUST NOT BE USED IF IT IS SUSPECTED OF BEING FROZEN. If water ceases to flow switch off the electricity supply immediately at the isolating switch.
- **DISCONNECT THE ELECTRICITY SUPPLY BEFORE SERVICING OR DRAINING THE UNIT.**
- **A MEANS FOR DISCONNECTION MUST BE INCORPORATED IN THE FIXED WIRING IN ACCORDANCE WITH THE WIRING REGULATIONS**

### Description

The Redring CT series is a range of cistern fed rectangular water storage heaters. They can be connected directly to the cold water mains supply and can feed more than one outlet without the use of special taps.

### What the installer will need

- A double pole isolating switch with a minimum contact gap of 3mm.
- A hole saw capable of making the 22mm and 27mm holes in the copper tank.
- Suitable length of 3 core 1.5mm<sup>2</sup> flexible cable with 85°C rubber insulated HOFR (Heavy Duty Oil Resisting and Flame Retardant) Sheath that complies with BS6500 table 9.
- Suitable fixing screws or bolts. Note, these Water Heaters become very heavy when filled with water (see table 1) and should be attached to the wall with heavy duty Steel Screw Fixers or Wall Bolts. Sizes are usually denoted by the hole size required to accept the correct wall plug. 10mm dia. for the top fixings and 8mm dia. for the bottom bracket. Minimum screw/wall plug engagement of 50mm is recommended into brickwork and 100mm into breeze block. Use only good quality Steel screws or bolts.
- 22mm plastic overflow pipe to extend from the Byelaw 30 kit to a suitable drainage point.
- Suitable length of 15mm and 22mm diameter copper pipe.
- Drain Valve.

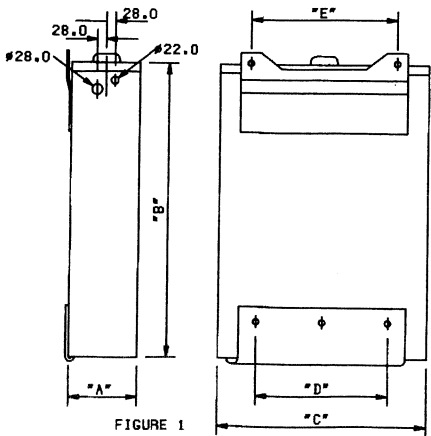
### Installing the Water Heater

#### Mounting the unit on the wall (see Fig. 1)

- Ensure that the wall and any fixings used are sufficiently strong to support the weight of the unit when it is full of water (see Table 1). Lightweight partition walls are not suitable without extra support.
- To ensure good flow, the unit should be mounted as high as possible above the highest draw off point. Clearance must be allowed above the unit to give access to the ball valve.
- The unit must be verticle mounted.
- **Maximum water pressure: 690 kPa (100 psi)**

#### Note:-

- Cold water feed is located at the top of the unit marked Blue.
- Hot water drain off and the Immersion heater boss are located at the bottom of the unit "Marked Red".



1. Before mounting to the wall the holes in the relevant upper hand side of the copper tank should be made.
2. Using the lower mounting bracket mark out the location of the 3 off fixing holes. Ensure they are level.
3. Drill and wall plug the 3 fixing holes. Ensure that the correct hole sizes have been drilled for the wall plugs.
4. Securely fix the lower bracket to the wall.
5. Place unit on the lower mounting bracket and hold in position.
6. Mark out the top 2 fixing holes.
7. Remove unit from lower bracket.
8. Drill and wall plug the upper fixing holes.
9. Replace unit on to lower mounting bracket and secure firmly to wall with top fixing.

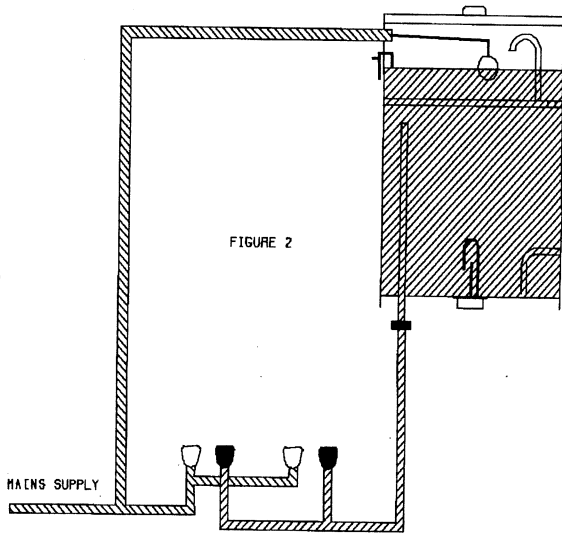
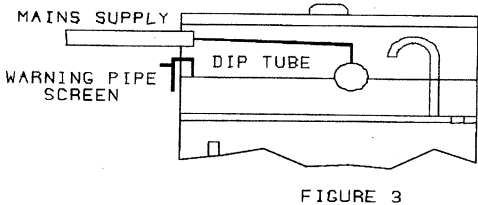
**Ensure that all wall fixings have been correctly made before the unit is finally filled with water.**

SHORT CODE	CATALOGUE NUMBER	CAPACITY (L)		DIMENSIONS (mm)					WEIGHT (Kg)		
		HOT	COLD	A	B	C	D	E	EMPTY	WATER	GROSS
CT 25	26-786401	25	8	210	705	475	310	390	27	33	60
CT 50	26-786801	50	24	320	750	600	450	530	41	74	115
CT 75	26-786901	76	24	320	920	600	450	530	53	100	153
CT 100	26-787001	101	24	320	1080	600	450	530	68	125	193

Table 1

#### Pipework Connections (see Fig 2)

- Ensure the main water supply is disconnected before commencing any work. We recommend that a local isolating stopcock is fitted.
- Lay the pipework from the mains water supply to the unit.
- Connect the Cold water supply and Bylaw 30 overflow (warning pipe assembly) to the side of the unit, by using the holes in the outer case as guides to locate into the cold water tank. (Fig 3). We recommend that a run of 22mm plastic overflow discharge pipe (with tundish) be used to connect to the nearest drain. The Pipe must have a continuous downward slope. No taps or other shut off devices may be fitted to this discharge pipe. Please ensure that support is provided on both sides of the hole when the ball cock is fitted.
- Connect the Hot water draw off, to the bottom of the unit onto the (22mm) compression fitting.
- Connect the drain tap to the 15mm connection at the base of the unit.



#### Fitting the Immersion Heater (see Fig 4)

- Ensure that the electrical mains supply is isolated.
- Screw the Immersion Heater into the fixing boss with the aid of a cranked spanner, do not use any sealing compound as this may effect the sealing washer or 'O' Ring seal.
- Connect the mains cable as shown in Fig. 4.
- Make sure that the cable is positioned in the location hole situated in the side of the heater head. Ensure that the cable is securely attached.

If during normal service, the thermal cut-out operates first establish the reason for operation. This could possibly be a wrongly set control thermostat. Switch off the electricity supply before removing the element housing cover. Correct the problem in line with the differential below, and then press the button to reset the cut-out. Replace the heating unit cover and the element housing cover before switching on the electricity supply.

**IMPORTANT - This unit MUST be full of water before switching on the mains electricity supply.**

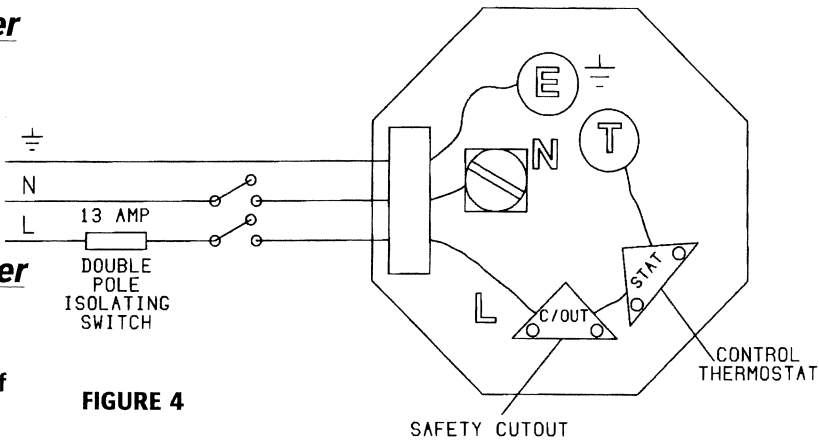
The control thermostat is factory set and sealed at 60°C and should ONLY be adjusted by the installer. A 20°C temperature differential between the control and thermal cut-out MUST be maintained.

Operation of the water storage heater

- When one or more of the hot water taps are opened the hot water is drawn from the unit, lowering the level in the cold water cistern.
- Cold water is automatically replaced by the ball valve opening in the water supply.

Looking after the water storage heater

- Before servicing or draining, switch off and isolate the water heater from the electrical supply. Failure to do so may result in the risk of fire or electric shock.



SAFETY WARNINGS

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- DISCONNECT THE ELECTRICITY SUPPLY BEFORE SERVICING OR DRAINING THE UNIT.
- THIS APPLIANCE MUST BE EARTHED.

Recommended Spares

	Catalogue Number
Immersion Heater complete	94-786001
Thermostat	94-786002
Cut-Out	94-786003
Cistern Ball Valve	94-786004
Water Bylaw 30 kit	94-786005

GUARANTEE

Redring electric, guarantee that should this Flatback water unit prove to be defective by reason of faulty workmanship or material within 24 months (12 months outside UK) of the date of purchase or commencement of hire we will replace the defective parts FREE OF CHARGE on the condition that:-

- The appliance has been correctly installed and used only on the supply circuit or voltage stamped on the rating plate.
- The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- Evidence of the date of purchase in the form of an invoice, receipt (hire purchase documents) is included with the appliance of returned under guarantee.

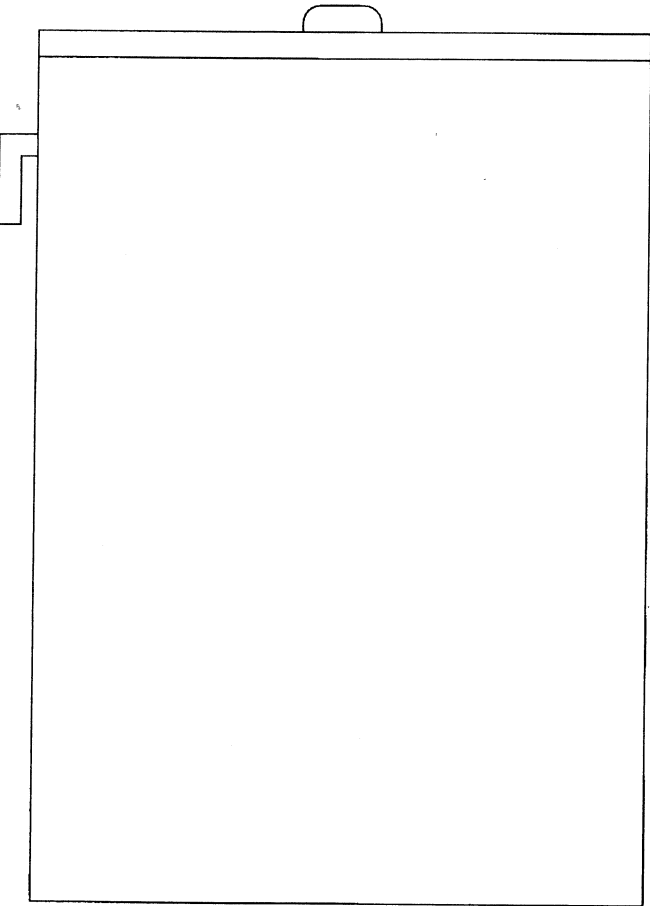
‘This guarantee does not affect your Statutory rights’

Full details of Terms and Conditions are available on request from:-

Applied Energy Products Limited  
Morley Way, Peterborough PE2 9JJ  
Telephone: 01733 456999 Fax: 01733 310606

**REDRING®**

**CT SERIES**



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

INSTALLATION & USER INSTRUCTIONS

(To be left with the house holder after installation)

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