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General

The Zip RCH II series is a range of cistern fed rectangular water storage heaters. They can be connected directly to the cold water main and can supply more than one outlet without the need for special taps.

These instructions should be read carefully and understood before commencing the installation. Do not proceed if any part is unclear or if requirements cannot be fully met.

Please leave these instructions with the users after installation.

Installation

1. Wall Mounting

The unit must be wall mounted allowing one metre above the highest draw off point. This will ensure good flow. Sufficient clearance must be allowed to ensure access to the ball valve assembly.

The wall fixing points are designed to accept 8mm bolts, which should not be less than 50mm in length.

Always ensure that the wall is strong enough to carry the weight of the unit when full of water.

2. Pipework Connections (Refer to Fig. 2)

The installation must conform to any local authority byelaws. The cold water supply and overflow pipe assembly can be connected to either side of the unit.

The respective apertures are pre-formed in the outer case and should be used as guides for cutting through the cold water tank.

A 22mm hole saw is required for the inlet and a 27mm hole saw for the overflow.

An isolating valve must be fitted to the cold water mains supply to allow for servicing.

3. Fitting to the Cold Water Tank

The Zip RCH II series of water heaters are supplied with all the components that are required to comply with the WRAS byelaw 30. The arrangement of these should conform to fig. 2

The filter and breather assembly is a push snap-fit connection and should be fitted to the lid in the aperture provided.

The overflow assembly comprises three components.

The threaded elbow (tank connector) is inserted through the hole that has been cut, and tightened with the nut and sealing washer on the inside of the tank.

The 90° internal dip tube is pushed firmly into the connector facing downwards. The overflow is located securely into the downwards external connection of the connector.

The ball valve assembly is fitted as required, adjusting the float to ensure

that the water level in the tank does not exceed the water level line.
When fitting the ball valve assembly, ensure that the inlet elbow is directed away from the vent pipe (see fig.2)

NOTE: After installation, replace the lid and secure with the retaining screw supplied.

4. Electrical Connection

The installation should be carried out by a suitably qualified person in accordance with BS7671 (IEE) wiring regulations.
A double pole isolation switch, having a contact separation of greater than 3mm, should be fitted to allow for servicing.

IMPORTANT - The unit **MUST** have water flowing from the taps, before switching on the electricity supply

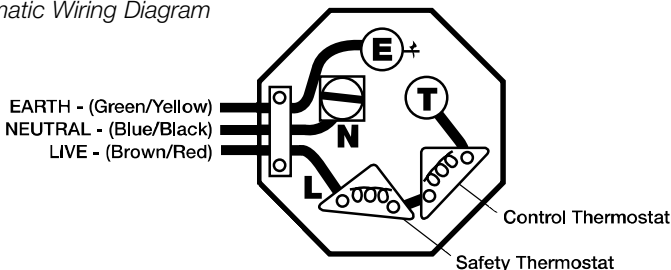
The Zip RCH II series of water heaters are all fitted with a 3 kW heating element. The heating element is located beneath the element housing cover at the base of the unit. The heating element assembly incorporates dual thermostats that are linked to act as a control thermostat with an over-temperature safety cut-out. The thermostats are factory fitted set to 50°C for the control thermostat and 70°C for the cut-out thermostat.

The control thermostat should **NOT** exceed 60°C and the 20°C differential between the control and the cut-out thermostat **MUST** be maintained.

The supply cable should be securely clamped before replacing the heating unit's own cover **AND** as it passes through the gland in the element housing cover.

If, during normal service, the cut-out thermostat 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 and then press the button to reset the cut-out thermostat. Replace the heating unit cover and the element housing cover before switching on the electricity supply.

Schematic Wiring Diagram



5. Operation

The cold water supply to the integral cistern is controlled by the ball valve. When one or more hot taps are opened the hot water drawn off from the unit is replaced from the contents of the cold water cistern that is refilled automatically.

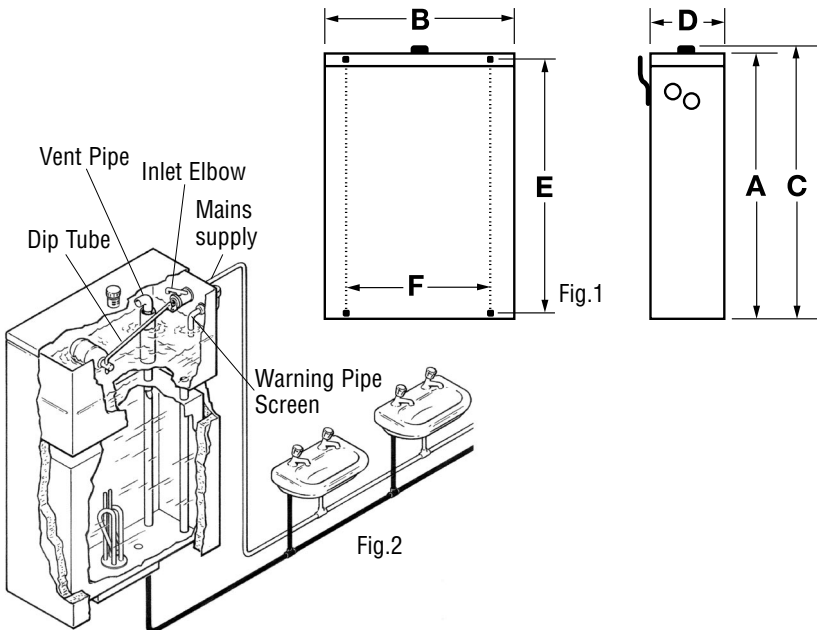
6. Commissioning

Before making the electrical connection it is recommended that the unit is filled and checked for leaks. Apart from the plumbing connections, the element or drain may have been loosened in transit and require tightening.

SAFETY WARNING

The unit **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. If the unit is to be serviced or drained, disconnect the electricity supply before commencing the operation.

Product Ref	Capacity		Dimensions mm							Water	
	Hot	Cold	A	B	C	D	E	F	Empty	Full	
RCH25	25	8	705	470	735	210	670	320	20	53	
RCH50	50	24	750	600	760	320	715	450	32	106	
RCH75	75	24	925	600	950	320	890	450	37	136	
RCH100	100	24	1080	600	1110	320	1045	450	40	164	



Technical Support

Should technical assistance be required, or service under the guarantee, please contact the Zip Technical Services Department on
Tel: 0870 608 8888
Fax: 01362 692448
with the details of the problem and stating the information in the box below.

*Model No.	*Serial No.	Date of Installation

**To be found on the data label on the underside of the unit.*

Please complete this box at the time of installation.

Guarantee

Goods are guaranteed for one year against faulty design, materials or workmanship, having been properly installed and operated in accordance with these instructions. The Company has the option to replace or repair an entire product or component. The Company shall not be liable for any consequential loss or damage, howsoever caused. It shall be the duty of the customer to insure against such consequential loss or damage.

The guarantee does not extend to the consequences of limescale deposits or frost damage over which the manufacturer has no control and for which the user is advised to take precautions. This guarantee does not affect the statutory rights of the consumer.