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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.

Product Description

The Zip RCH 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.

Approvals

The RHC series has been examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Regulations/Bylaws (Scotland). The product, therefore, is listed under the **WRAS** (Water Regulations Advisory Scheme) Water Fitting and Materials Directory - **Certificate No. 0007085**. The RCH series is CE endorsed.

Warranty

Your RCH is precision built from the finest materials and should give many years of trouble free service. Zip heaters (UK) Ltd. warrants that should any part of the heater fail within one (1) calendar year of installation, that part will be repaired or replaced by Zip Heaters (UK) Ltd. free of charge, except as set out below, provided that the failure is not due to accident, misuse, abuse, condition of the water, frost, or failure to follow installation instructions or service requirements. The only charges payable by the customer are the cost of removal, re-installation and cartage, should any component need to be returned for repair. This warranty does not cover damage resulting from non-operation or consequential damage to any goods, furnishings or property. This warranty does not displace any statutory warranty in relation to the RHC. Zip Heaters (UK) Ltd's. liability under any statutory warranty will be limited to replacement or repair at the option of Zip Heaters (UK) Ltd.

Warnings

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.

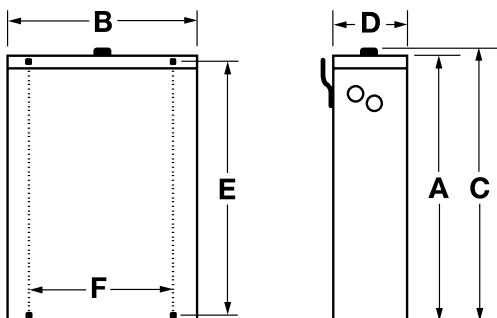
Specification

- Product: RCH
- Type: Rectangular cistern-type heater
- Capacity: 25ltr. 50ltr. 75ltr. 100ltr.
- Loading: 3.0 kW, 6kW option available on 100ltr. model.
- Heating Element: Embedded rod type.
- Thermostat: Adjustable rod type, range 5°C to 65°C.
- Water Tank: Hot water tank and cold water feed cistern are both manufactured from copper sheet with brazed seams.
- Case: White enamelled corrosion proofed steel.
- Insulation: Fully fire retardant foiled urethane core slab.
- Safety Cutout: Resettable rod type thermostat factory set at 80°C.
- Approvals: CE endorsed - WRAS approved.

Dimensions

Product Ref	Capacity (litres)		Dimensions (mm)						Weight (kg's)	
	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

Fig.1



Installation

1. Location

The unit must be wall mounted allowing at least 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, through the top of the heater.

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.

You will need mains cold water supply via 15mm pipe.

The overflow system will accept 21.5mm ($\frac{3}{4}$ ") pipe.

240v 13amp electrical supply should be available.

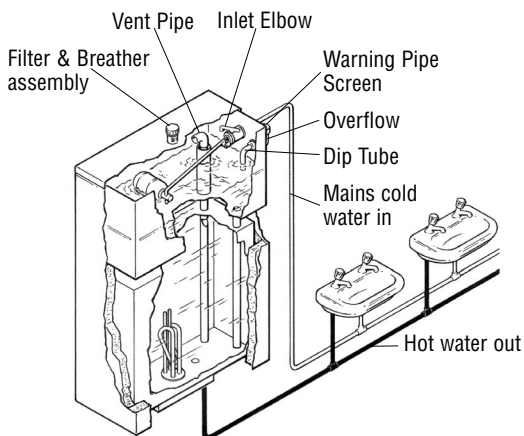
2. Pipework Connections (Refer to Fig. 2)

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.

Diagram Fig.2



3. Fitting to the Cold Water Tank

The Zip RCH 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-fit connection and should be fitted to the lid in the aperture provided.

Commissioning

IMPORTANT – To ensure that sufficient water is covering the element before switching on, the unit MUST have water flowing from the taps.

After the plumbing connections are made and before making the connection to the electrical mains supply, fill the unit with water and check each joint thoroughly for leaks. Also check the element and drain connections as these may have become loosened in transit. Once you are satisfied that all the joints are secure connection may be made to the mains electrical supply.

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.

Routine Preventative Maintenance

The ZIP RCH is fitted with a mechanical ball valve and it is recommended that this should be checked on a regular basis. The following checks should be made:

- a) That the ball valve mechanism is free from obstruction i.e. scale.
- b) That the ball valve is moving freely up & down with the water level.
- c) That the plastic float has not taken on any water.
- d) That the ball valve is shutting off when the water is at the correct level.

If there is evidence of scale within the cistern tank this should be cleared to ensure continued safe operation of the ball valve mechanism.

In the event that the main tank requires de-scaling the unit should be drained, the element assembly removed, the scale can now be manually removed.

In the event of an element failure ensure that the unit is completely drained before attempting to remove the old element.

Before carrying out any work on the thermostat or the element please ensure that the electricity supply is switched off.

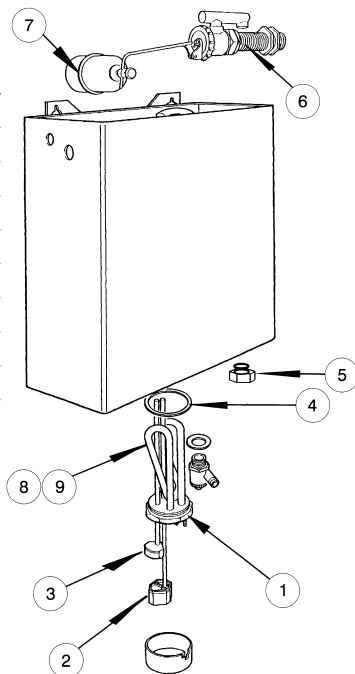
Fault Finding

Fault	Diagnosis	Action
No Hot Water N.B.* these could be linked - in the event of control stat failure cutout will activate.	Incorrect control thermostat setting.	Check setting and adjust as required.
	*Over temperature safety cutout tripped.	Reset and check operation of the thermostat.
	*Control thermostat faulty. Element failure.	Replace thermostat. Replace element.
Water too hot	Incorrect control thermostat setting.	Check setting and adjust as required.
	Thermostat wired incorrectly	Check wiring and correct if necessary.
	Faulty thermostat.	Replace thermostat.
No water from taps.	Ball valve malfunction.	Check operation and replace if necessary.
	Outlet blocked by scale.	Disconnect outlet and clear blockage.
	Tap/s faulty.	Check operation of tap, if faulty contact the tap manufacturer for spares.
Leaking	Poor seal around the element.	Remove and re-seal.
	Poor seal around the drain cock.	Remove and re-seal.
	Drain cock not fully closed.	Tighten drain cock until fully closed.
	Poor inlet/overflow connection to cistern tank.	Remove and re-seal.
	Inlet elbow on the ball valve is not positioned so that the water flows directly into the tank.	Turn elbow so that the water flows directly into the tank.
	Condensation forming on underside of the lid and dripping down between the inner vessel and outer case.	Check for water droplets forming on the underside of lid, if present then apply a sealant around the top of the unit.
	Cylinder holed.	Contact Zip on 0870 608 8888

Spare Parts

Zip RCH

Item	Part No.	Description
1	RC0400	Element 3kW C/W Gasket & Two Thermostats
2	RC0403	Control Thermostat 11"
3	RC0404	Resettable Thermostat 11"
4	RC0405	Element Gasket
5	RC0406	Outlet Nut & Olive
6	RC0410	Ball Valve
7	RC0411	Float
8	RC0400/2	Element 2kW C/W Gasket & Two Thermostats
9	RC0400/6	Element 6kW C/W Gasket & Two Thermostats



Technical Support

Should technical assistance be required, please contact the Customer Care Centre on-

Tel: 0870 608 8888

Fax: 01362 692448

e-mail: service@zipheaters.co.uk

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.

For claims under guarantee you may be asked to provide proof of purchase