

Schedule

It is recommended that all key components of the heater should be inspected six monthly for continued safe and efficient operation. The components to be inspected should include the following:

- 1 Sacrificial Anode. The sacrificial anode is mounted onto the element plate to give additional protection from corrosion in aggressive or hard water areas. Gradual erosion of the sacrificial anode will occur depending upon local conditions and checking more frequently than six monthly is recommended on new installations. In extreme cases local conditions can cause rapid erosion of the anode resulting in particles being deposited as a residue and the Aquapoint should not, therefore, be used in critical applications. Replacement of the anode is advised when its diameter has reduced to less than 12mm. For advice please contact Zip Technical Department on 0870 6088888.
- 2 Expansion relief valve. Check correct operation.
- 3 Expansion vessel pressure should be checked – refer to label on vessel for correct pressure.
- 4 Pressure and temperature relief valve. Check correct operation.
- 5 All valves should be replaced after 5 years.

Fault Finding

Fault	Possible causes
Water not heating	1 Electricity supply fault
	2 Over temperature cutout tripped
	3 Faulty thermostat
	4 Faulty element
Discharge from expansion relief valve	1 Thermostat fault
	2 Excessive mains water pressure
	3 Expansion vessel lost charge (if fitted)
	4 Faulty expansion relief valve
	5 Faulty pressure reducing valve (if fitted)

To De-install the Heater

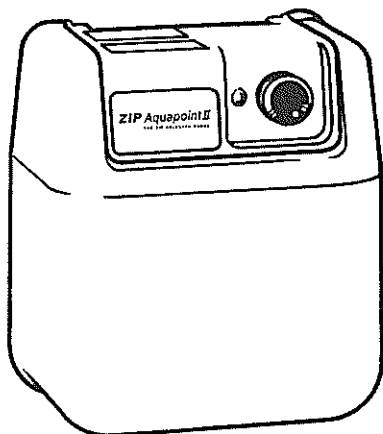
- 1 Switch off and disconnect the electrical supply
- 2 Close the mains water supply isolating valve
- 3 Disconnect the inlet and outlet water connections at the top of the unit
- 4 Remove the heater
- 5 Drain the unit through the hot water supply connection

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Please read these instructions carefully, before commencing installation of the Aquapoint II.

Specification



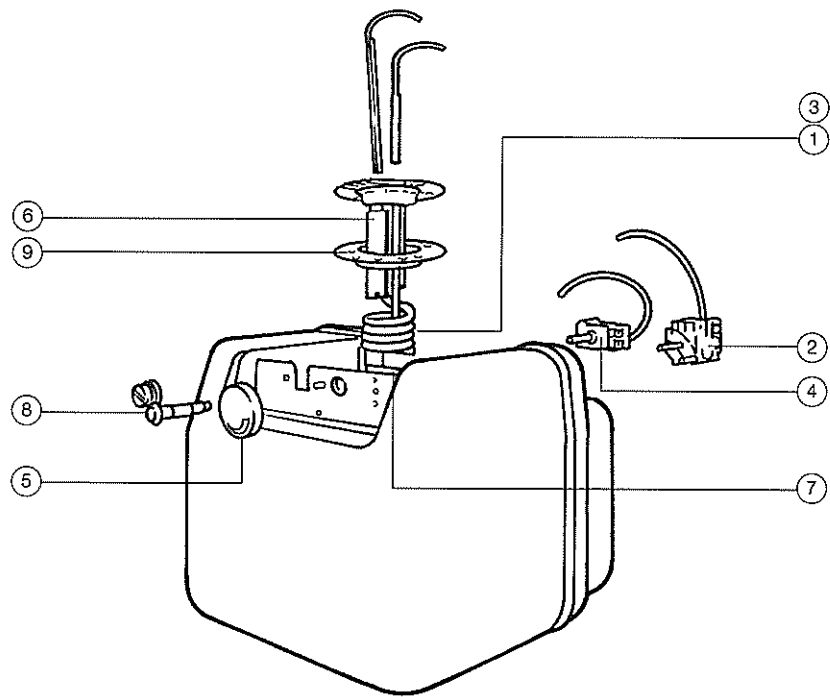
Product:	Zip Aquapoint II
Type:	Unvented multipoint
Capacity:	5 ltr, 10 ltr, 15 ltr
Loading:	2.2 kW
Heating Element:	Embedded rod type
Thermostat:	Capillary type adjustable 20° to 70° C
Water vessel:	1.8 mm glass enamelled steel, tested at 12 Bar. Working pressure 6 Bar
Casing:	Impact resistant white plastic
Insulation:	High density, CFC free, polyurethane foam
Safety features:	Expansion relief valve (supplied). Manually resettable over temperature safety cutout pressure relief valve. Water heater protected against frost when electricity is switched on. Sacrificial anode mounted on element plate for added protection for vessel and element in aggressive water areas.
Approvals:	CE endorsed – WRAS approved
Models:	5 litre AP50 10 litre AP100 15 litre AP150

Maintenance

Precautions

- 1 The Zip Aquapoint is an unvented electric water heater, and a competent installer, familiar with unvented systems, should carry out all servicing and maintenance
- 2 Do not remove the cover whilst the unit is connected to the electrical supply
- 3 The over temperature cut out is located beneath the screwed grey security cap located on the left beneath the housing cover
- 4 Do not reset the over temperature cut out until the cause of its operation has been diagnosed and necessary repairs undertaken
- 5 Do not use the water heater if it is suspected of being frozen. Switch off the electrical supply if water ceases to flow and do not switch on again until a competent person has checked it is safe to do so
- 6 The heater should be visually inspected regularly. This is particularly important if the heater is located in a cupboard, roof space or any other concealed location. If there is any sign of leaks or seepage the heater should be isolated from the water supply and switch off until a competent person has investigated the cause
- 7 Do not block or restrict the discharge from any safety valve fitted
- 8 Do not tamper with any safety valve fitted
- 9 If water discharges from any safety valve switch off the electrical supply to the unit, isolate the water supply and contact a competent installer familiar with unvented systems
- 10 Please note that lime scale deposits form more readily at higher temperatures
- 11 The heater is not guaranteed against damage or failures caused by the formation of lime scale

Spare Parts



Zip Aquapoint II

Item	Part No.	Description
1	AQ0201	Element 2.2 kW (10/15L)
2	AQ0202	Thermostat
3	AQ0203	Element 2.2 kW (5L)
4	AQ0204	Resettable cutout
5	AQ0205	Temperature control knob
6	AQ0208	Sacrificial anode
7	AQ0209	Internal wiring loom
8	AQ0226	Neon
9	AQ0227	Element Gasket

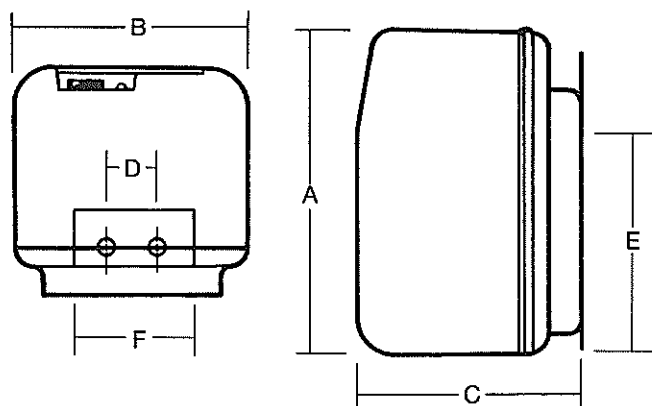
Special notices

These instructions should guide you through the fitting of the Zip Aquapoint II, however if you encounter a problem, just call 0870 608 8888 and ask for Service Helpdesk.

- The Zip Aquapoint is an unvented water heater designed for connection directly to the incoming mains water supply and can serve one or more outlets using conventional taps.
- Care should be taken that the capacity of the unit chosen is sufficient to meet the demands of the outlets being supplied.
- The casing is constructed from impact resistant plastic and heat losses are minimised by the CFC free polyurethane foam insulation.
- The inner vessel is high-grade 1.8 mm thick steel that is glass enamelled and pressure tested to 12 bar.
- An alloy sheathed heating element provides longer life in aggressive water conditions.
- A manually resettable safety cut-out automatically cuts off the electrical supply to the heating element in the event of a malfunction.
- A sacrificial magnesium anode is mounted on the element plate for added protection for the vessel and the element.

If the hot-water system is not used for two weeks or more, it is recommended that a hot tap be turned on for several minutes at a sink, basin or bath, but not at a dishwasher, clothes washer or other appliance.

Dimensions



Model	Capacity Litres	Dimensions mm				Fixing Centres mm		Water Connections
		A	B	C	D	E	F	
AP50	5	320	285	275	70	210	180	½ - inch BSP
AP100	10	410	335	255	70	350	Central	½ - inch BSP
AP150	15	460	315	310	70	340	180	½ - inch BSP

Model	Weight Kg		Electrical			Pressure Bar	
	Empty	Full	Supply	Loading	AMPS	Test	Working
AP50	5.3	10.3	240v	2.2kW	10	12	6
AP100	7.3	17.3	240v	2.2kW	10	12	6
AP150	9.3	24.3	240v	2.2kW	10	12	6

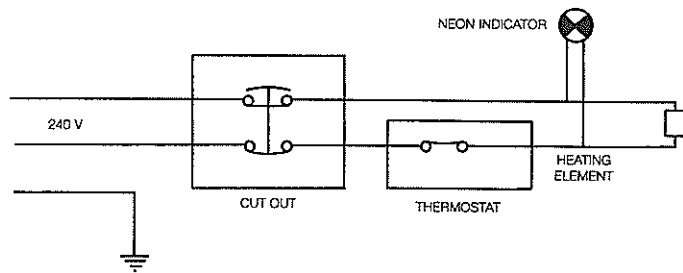
Commissioning

- 1 Check that all the requirements under "Installation Requirements" have been met
- 2 Check that all the water and electrical connections are correct and tight
- 3 Open a hot water tap
- 4 Open the isolating valve and permit the heater to fill
- 5 When water flows from the hot tap – turn off the hot tap
- 6 Check for leaks, rectify as necessary
- 7 Check the operation of the safety valve and when fitted the temperature and pressure relief valve
- 8 Set the temperature control knob to the desired position (recommended position is mid-point, approximately 55°C)

Note:

- Rotating the temperature control knob varies the water temperature over the range 20°C to 70°C.
 - Hot water at 55°C or more can scald.
 - Minimum setting provides frost protection while the heater is connected to power.
- 9 Switch on the power. The red neon light will glow during the heating cycle and when the selected temperature is reached it will go out until the next heating cycle.
 - 10 Check the water temperature and re-check water connections and adjust as necessary
 - 11 Pass these instructions to the person responsible for the building management

Electrical



- 1 Switch off the main electricity supply before carrying out any work involving a live circuit or access to components that may be live.
- 2 The Zip Aquapoint is pre-wired with a length of 3-core cable suitable for connection to a mains 240v supply. Connection must be made to a double pole-isolating switch on a dedicated circuit or a double pole switched spur.
- 3 If the cable length is insufficient it is recommended that the entire length is replaced and no joins made to the original. To replace the cable:
 - a. prise the temperature control knob off the spindle
 - b. release the two screws at the top of the cover assembly
 - c. remove the cover by lifting forwards and upwards
 - d. pass the new cable through the entry point of the cover
 - e. remake the connections
 - f. ensure the cable is securely clamped
 - g. refasten the cover

***Do not switch on
the electrical supply
until the water heater
is full of water.***

Installation

Requirements

- 1 These instructions must be read and fully understood before commencing the installation. If in doubt, or in need of further guidance please ring Zip on 0870 608 8888.
- 2 Zip Aquapoint unvented water heaters must be installed by a competent installer, familiar with unvented electric water heaters.
- 3 Installations must comply fully with UK Water Regulations and any Local Authority requirements.
- 4 The electrical installation including earthing and cross bonding should comply with the current IEE regulations and any Local Authority requirements.
- 5 The Zip Aquapoint is designed for connection direct to the incoming mains water supply and accommodation must be made for the expanded water that will occur with each operating cycle. Regulations permit expanded hot water to be accommodated within the supply pipe work provided that no check valve, stop valve with loose jumper or other fitting can prevent reverse flow (diagram 1).

Where the expanded water cannot be accommodated in the pipe work and the static water supply pressure is under 4 bars fit accessory pack AQ2 (expansion vessel and check valve). Where static water pressures are likely to exceed 4 bars, fit accessory packs AQ2 and AQ3 Pressure reducing valve and line strainer. See diagrams 2 and 3.
- 6 If required, a temperature and pressure relief valve (accessory AQ1) can be used with any installation. See diagram 4.
- 7 The 6 bar expansion relief valve must be fitted on the cold water supply.
- 8 The drain connection from the expansion relief valve and the T&P relief valve must be in accordance with Water Supply Regulations. The point of discharge must be in a safe and visible position. The connection should be made use 15 mm pipe having a continuous fall to a maximum length of three metres. It shall not have more than 3 right-angled bends. If a waste connection in excess of three metres is necessary the pipe diameter should be 22 mm with a continuous fall and no more than four right-angled bends to a maximum resistance to flow equivalent to 9 metres of straight pipe.
- 9 An isolating valve must be fitted to the cold water supply.
- 10 Valves and fittings must be of a type required by Water Supply Regulations.

Diagram 1.
Inlet pressure less than 4 bars and expanded hot water can be accommodated in the pipe work.

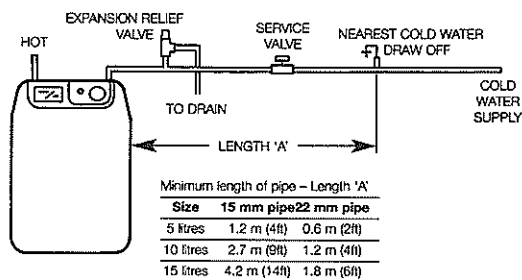


Diagram 2.
Inlet pressure less than 4 bars but expanded water cannot be accommodated in the pipe work. (Using pack AQ2 expansion vessel and check valve.)

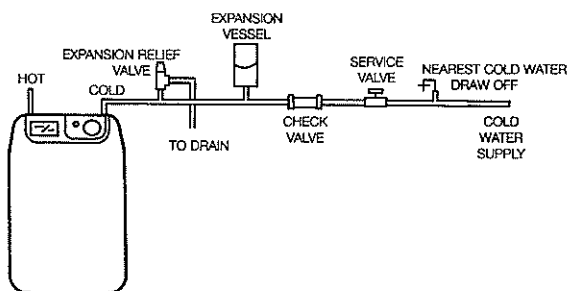


Diagram 3.
Inlet pressure is greater than 4 bars and expanded water cannot be accommodated in the pipe work. (Using pack AQ2 and AQ3 expansion vessel, check valve and pressure reducing valve.)

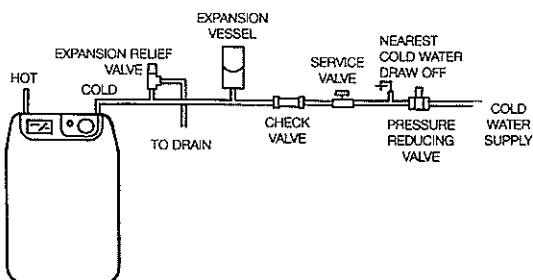
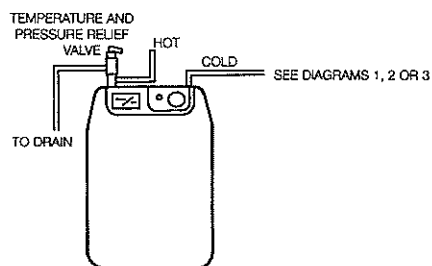


Diagram 4.
Illustrated an installation where a pressure and temperature relief valve is required. Can be used with any installation. (Using pack AQ1 temperature and pressure relief valve.)



Positioning

- 1 The Zip Aquapoint must be installed vertically. The connections should be at the top/rear of the unit. When facing the heater the hot supply (red) is to the left, and the cold feed (blue) to the right.
- 2 The heater is normally mounted under the intended outlets, but if required, it is possible to mount the unit above the outlets provided the connections are at the top. The fixings must be capable of supporting the heater when full of water.
- 3 **When deciding the final location of the heater consideration should be given to the safe and visible disposal of any water resulting from leaks or seepage. This is particularly relevant when the heater is located in a roof space, cupboard or any concealed location. For guidance please ring Zip Heaters on 0870 608 8888.**
- 4 The unit can be placed unsupported on the floor or cupboard base, but if additional support is required, securing hooks are supplied that locate to the rear of the casing.
- 5 Position the Zip Aquapoint to allow for future maintenance.
- 6 Do not install in a location where the unit or connecting pipe can freeze.

Plumbing

- 1 Check the incoming water supply pressure as this will determine the layout, and safety controls required. Remember that the mains water pressure can increase considerably at night.
- 2 Refer to the diagrams 1 to 4 to determine accessories required and layout.
- 3 Position the heater and controls to allow for future maintenance.
- 4 All control and safety valves are marked to show the direction of water flow. It will not function if incorrectly orientated. Do not break any seals or attempt to adjust any safety valve; to do so may impair the safety of the installation and will invalidate the guarantee.
- 5 To ensure a watertight seal use fibre washers for connecting services between the heater and the connectors used. Complete the seal by applying PTFE tape to the threads but do not over-apply. Do not use plumbers paste to secure joints as this can impair the operation of any valves connected to the heater.
- 6 Flush all pipe work before making the final connections to the valves, accessories and the heater.