

Intelligent

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and washrooms since 2012.**





Zip Econoboil & Hydroboil

On wall boiling water.

Models:

Econoboil: 3L, 5L, 7.5L

Hydroboil: 3L, 5L, 7.5L, 10L, 15L, 25L, 40L



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IMPORTANT SAFETY INSTRUCTIONS



Safety

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Qualifications

If the power cable is damaged it must be replaced by a qualified technician. To avoid hazards, all installation procedures must be carried out by a suitably qualified tradesperson.

Venting

Occasionally steam and / or boiling water may discharge through a vent outlet or the tap. Ensure the tap body is located so the tap outlet safely dispenses into the drip tray or sink bowl area, and the vent is plumbed to a safe location.

Lifting

Take care when lifting. The appliance may exceed safe lifting limits. If you feel this is beyond your personal capabilities, please seek assistance with the lift. Do not lift the appliance by the tap or any of its connections. Refer to the Technical specification for the weight of the product.

Positioning

Ensure the appliance is positioned in an accessible area. The appliance must be installed upright, with its base in a horizontal position.

Frost protection

If the appliance is located where ambient air temperature could fall below 5°C when the appliance is not in use, do not turn it off electrically. This safeguard does not offer the same protection to the connecting pipework and fittings.

WARNINGS & PRECAUTIONS

1. For continued safety of this appliance it must be installed, operated and maintained in accordance with the manufacturer's instructions.
2. This appliance may deliver water at high temperature. Refer to the Plumbing Code of Australia (PCA), local requirements and installation instructions to determine if additional delivery temperature control is required.
3. All plumbing and electrical connections must be made in accordance with local regulations and relevant standards. For Australia/NZ: electrical installation must comply with AS/NZS 3000. For Australia/NZ: plumbing installation must comply with Plumbing standard AS/NZS 3500. UK: the system must be installed in accordance with water supply byelaws, current IEEE regulations and local authority byelaws.
4. All installation and service work must be completed by trained and suitably qualified tradespeople. Faulty operation due to unqualified persons working on the product may void warranty coverage.
5.  This appliance must be earthed. The resistance of the earth connection from each exposed metal part must be less than 1 ohm.
6. The power cord and general power outlet must be in a safe and accessible position after installation.
7. Any disconnection to the fixed wiring must be in accordance with local regulations and relevant standards including AS/NZS 3000.
8. Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.
9. The cold water supply to this appliance must be potable and fall within your local authority guidelines.
10. The installer is responsible to supply and install all valves as required by local regulations and relevant standards.
11. In hard water areas where mineral scale accumulation may become a problem, consideration should be given to the maintenance required. A suitable form of water treatment may be necessary.
12. This appliance is designed for indoor use and must not be installed outdoors or exposed to the elements of nature.
13. This appliance must operate within ambient temperatures of 5°C - 50°C.
14. Do not clean this appliance with a water jet. Do not position this appliance in an area that may be cleaned by a water jet.
15. This appliance is not intended for use by young children or infirm people without supervision. Young children should be prevented from having access to ensure that they are not able to use or play with the appliance.
16. This appliance is intended to be used in: staff kitchen areas in shops, offices and other working environments; farm houses and by clients in hotels, motels and other residential type environments; bed and breakfast type environments; catering and similar non-retail applications.
17. Due to the process of continuous improvement, the manufacturer reserves the right to change details mentioned in this manual, without notice. Visit the website of the manufacturer/distributor to ensure you have the latest copy of this document.

TECHNICAL SPECIFICATION

Tank size (litres)	Heat up time (Inlet 15°C)	Heat up time (Inlet 10°C)	Rated voltage and power	Dimensions W x D x H (mm)*	Filled weight (kg)
3.0	16mins	17mins	220-240V, 50Hz, 1400W 220V, 60Hz, 1250W	300 x 183 x 439	12
5.0	16mins	17mins	220-240V, 50Hz, 2200W 220V, 60Hz, 2000W	329 x 201 x 473	15
7.5	23mins	23mins		329 x 201 x 586	20
10.0	40mins	43mins	220-240V, 50Hz, 2800W 220V, 60Hz, 2500W	401 x 249 x 606	27
15.0	40mins	43mins		401 x 301 x 606	33
25.0	47mins	50mins		401 x 301 x 786	47
40.0	60mins	64mins	220-240V, 50Hz, 5400W 220V, 60Hz, 4800W 380-415V, 2N, 50Hz, 5600W 380V, 2N, 60Hz, 5000W	526 x 286 x 847	70

* add 98mm to Depth for Tap and Fascia (Econoboil AU, Hydroboil)
add 96mm to Depth for Tap (no Fascia) (All other Econoboil)

Before installation, ensure that:

- All technical specifications and instructions have been reviewed and understood.
- The mounting wall can support the product weight when full of water. See Technical specifications.
- Sufficient space is provided to install the appliance and other components in accordance with these installation instructions. Check cable and plumbing against inlet /outlet positions before proceeding.
- An easily accessible socket and double pole isolation switch (correctly rated for the appliance) is required. For models rated below 3kW: 220-240V AC 50-60Hz; for models rated above 3kW: 380-415V AC mains power.
- The appliance must be connected to a potable water supply with working pressure of: AU/ NZ 150 - 700 kPa (1.5 - 7.0 bar); UK 70 - 500 kPa (0.7 - 5.0 bar).
- The appliance must be connected with an isolating valve within reach of the hose and positioned so that the valve will not be obstructed.
- A 350 kPa (3.5 bar) pressure limiting valve (not supplied) must be fitted if the incoming mains water pressure is likely to exceed 500 kPa (5.0 bar)
- The appliance must be placed upright with its base in a horizontal position.



IMPORTANT! Do not proceed with the installation if these requirements are not met.

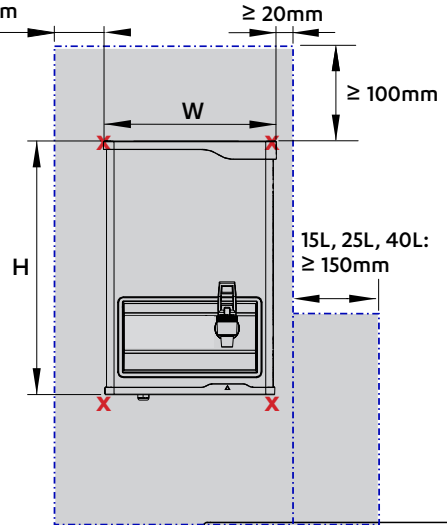
Step 1 – Positioning

1.1

3L, 5L, 7.5L: $\geq 65\text{mm}$
15L, 25L, 40L: $\geq 150\text{mm}$

Mark corners of the appliance on the wall.

Observe clearance around the appliance for service access



1.2

Place supplied paper template on the wall. Drill holes as shown.



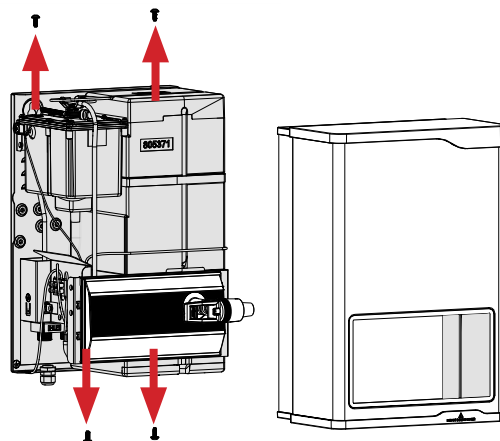
1.3

OPTION: Drill holes for concealed plumbing (water inlet, vent outlet) and electrical.

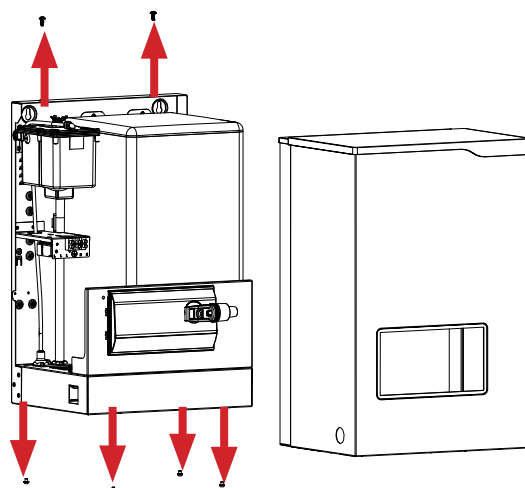
Step 2 – Fastening

- 2.1** Remove cover screws. Remove the cover.
Use supplied screws to mount the appliance to the wall.

3 - 7.5 litre models

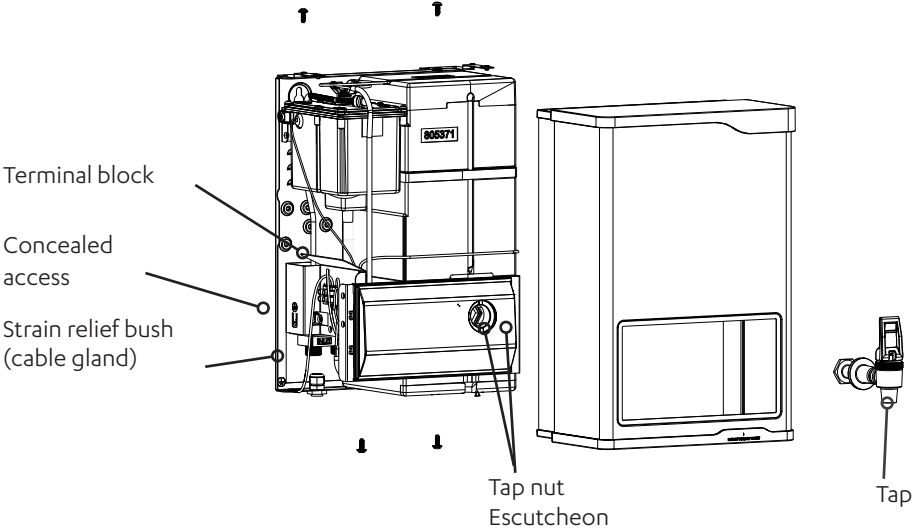


10 - 40 litre models

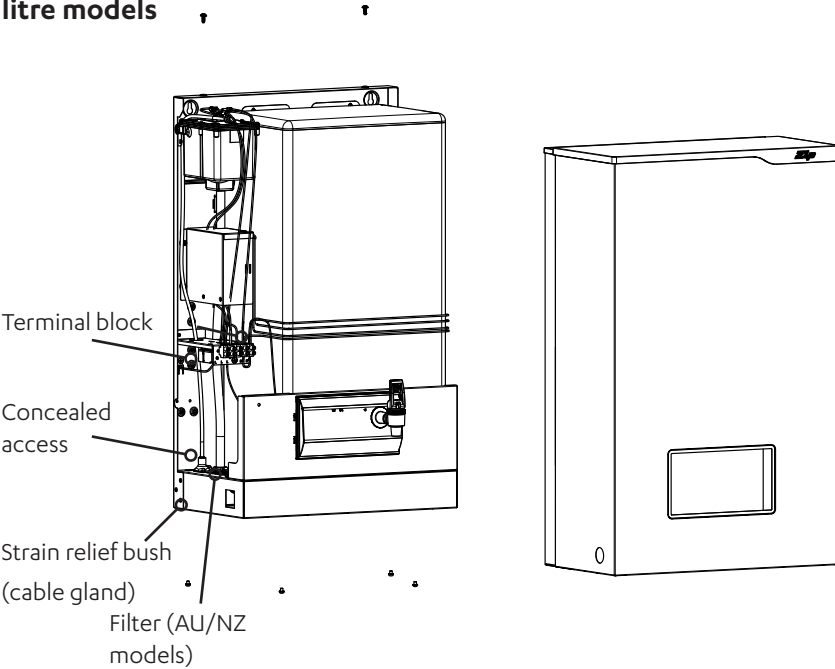




3 - 7.5 litre models



10 - 40 litre models

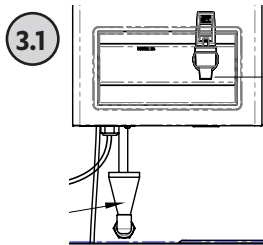


Step 3 – Plumbing connection

Cold water inlet and vent outlet

IMPORTANT:

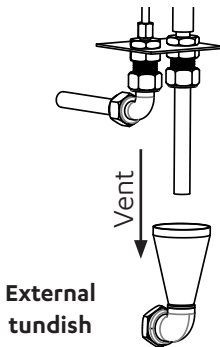
- Cold water pipes must be flushed before connection to the inlet to prevent blockages from affecting operation of the appliance.
- An isolation valve (not supplied) must be fitted to the water supply.
- All Vent pipework:
 - must be installed with continuous fall.
 - must be no more than 3 metres in length.
 - must have no more than 3 right-angle bends.



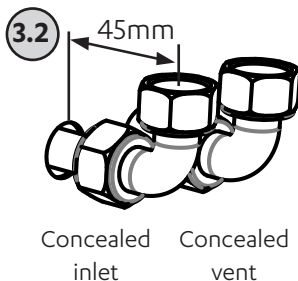
Exposed plumbing connection

Connect the cold water inlet pipe from the base of the Hydroboil directly to the 12.7mm (½" BSP) compression fittings with nuts and olives supplied.

install a visible tundish and plumb to trapped waste. Ensure access for filter replacement is not obstructed.



OR



Concealed plumbing connection

Connect cold water pipe through the rear of the appliance using a 12.7mm (1/2" BSP) capillary elbow (e.g. No.63, loose nut elbow).

Connect vent from the concealed rear of the appliance to a dia12.7mm pipe. Vent outlet must be visible and discharge to a waste water drain.

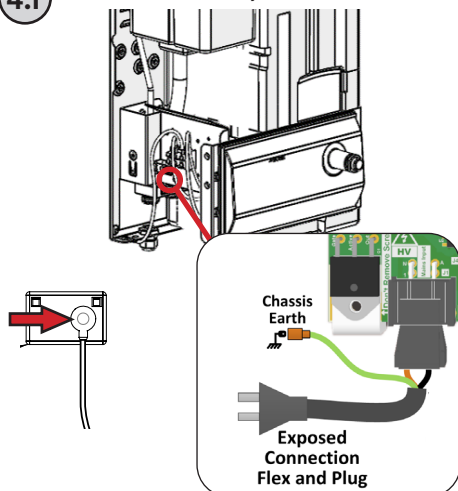
Step 4 – Electrical connection



All wiring must be performed by a qualified electrician. Refer to local relevant electrical codes and guidelines for installation requirements, cable size and selection to ensure suitability for local installation conditions and your product's power rating.

4.1

220-240V AC, 50Hz



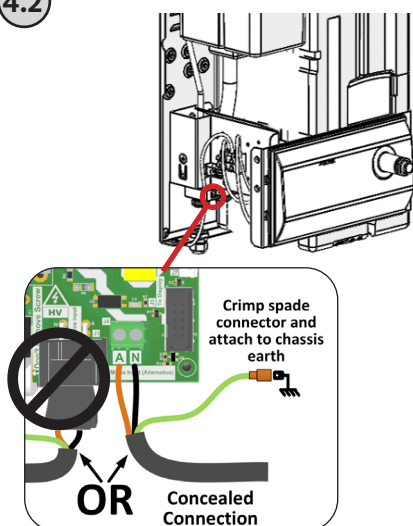
Exposed electrical connection for 3L, 5L, 7.5L models

- If a power cable is not already fitted, connect a cable to the terminal block on the PCB, via the strain relief bush (cable gland). Tighten the strain relief bush to secure the cable.
- With power cable fitted, connect the cable plug to a 220-240V AC power outlet.
- Do not turn power ON until the appliance can dispense water from the tap outlet.

OR

4.2

220-240V AC, 1-phase



Concealed electrical connection for 15L, 25L, 40L models

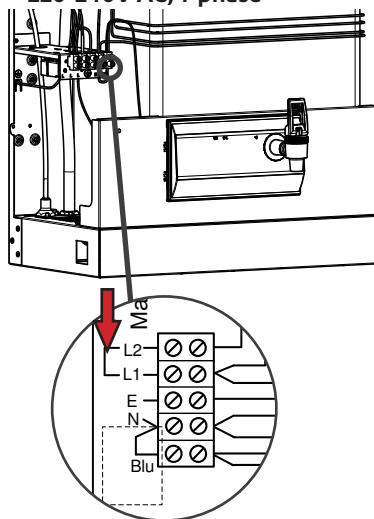
(optional for 3L, 5L, 7.5L models)

- If a power cable is fitted, disconnect and discard.
- Connect a concealed power cable through the rear access opening to the terminal block "live" (active) and "neutral" wires, via the strain relief bush. Tighten the strain relief bush to secure the cable.
- Crimp a 6.3mm QC female spade connection to the earth conductor and attach to the chassis earth male terminal.
- An isolation switch should be installed, according to AS3000.
- Do not turn power ON until the appliance can dispense water from the tap outlet.
- Verify the earth continuity.

Step 4 – Electrical connection

4.3

220-240V AC, 1-phase



Single-phase power supply

15-25L models: These models have single-phase connection. No bridging is required.

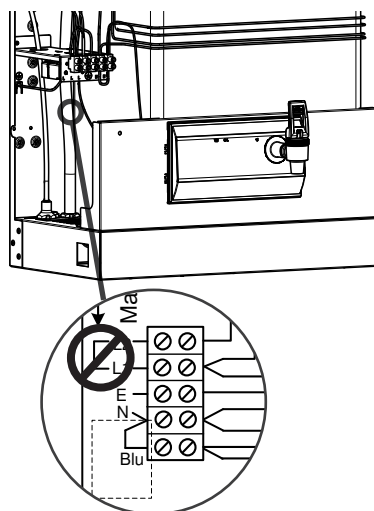
40L models: There are two connection options:

- Single phase 220-240V. L1 and L2 need to be bridged on installation. The single phase supply must be sufficient to handle the power of the unit (i.e. 25A or above)
- 3 phase connection (see below)

4.4

40L models

380-415V AC, 3-phase

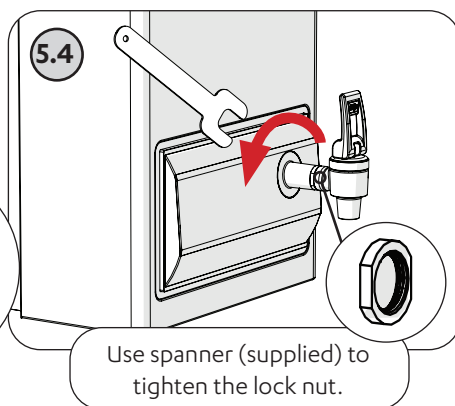
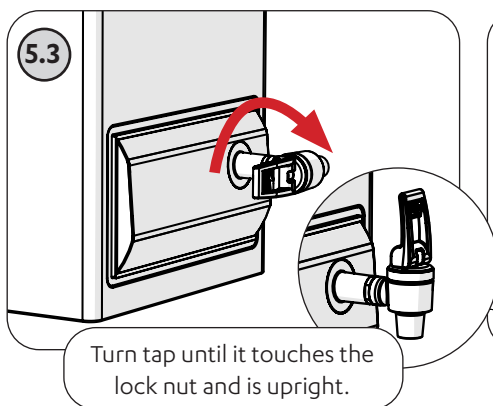
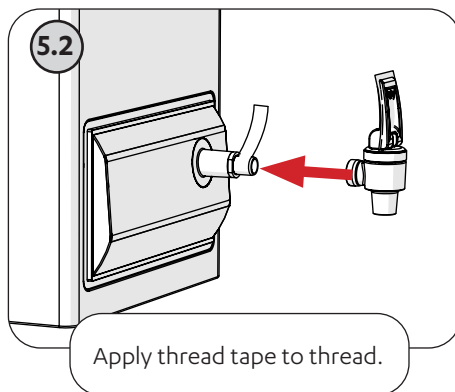
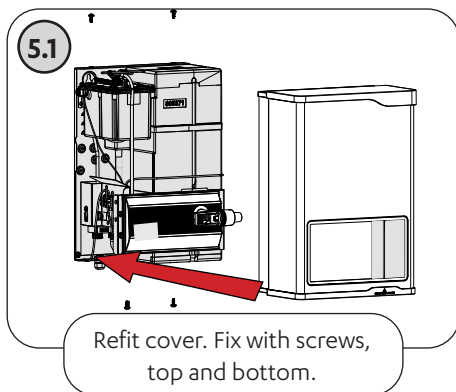


3-phase power supply

40L models: There are two connection options:

- Single phase 220-240V (see above)
- 3 phase connection 380-415V. 2 out of 3 phases are connected to L1 and L2. No bridging between L1 and L2 is required

Step 5 – Assembly



Step 6 – Commissioning

6.1



Warning: This appliance must be earthed

Do not turn ON electrical power until instructed. Water must be available from the tap outlet to prevent damage. Water dispensed during commissioning may be boiling.

Check earthing

Earthing continuity must be tested by a qualified technician using a resistance meter of minimum accuracy of 5% full scale deflection.

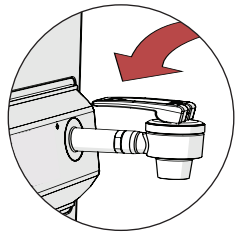
- Ensure electrical power is OFF.
- Verify meter ohms range, connect leads together, reading should be 0 ohms.
- Hold one test lead to the earth of the power lead.
- Hold the other test lead on a cover fixing screw, then the tap.
- Verify that in every instance the electrical resistance does not exceed 1 ohm.



6.2

Check water connections

Turn ON the mains water supply. Water will flow into the Hydroboil. Check connections and repair any leaks. Depress the tap lever into the locked open position. Allow the tank to fill until water flows from the tap outlet. Once water is available from the tap, close the tap to stop water flow.



6.3

Turn ON electrical power

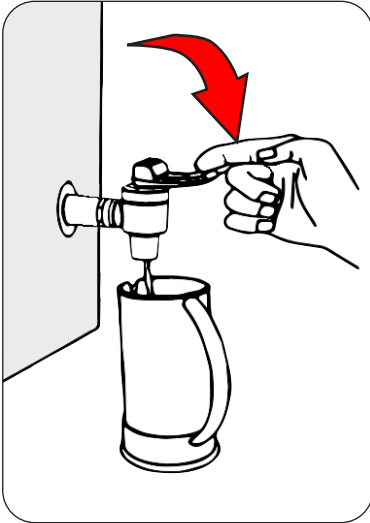
Boiling Calibration will commence. The tank will fill and heat. Allow 15-30 minutes for the water to reach boiling set temperature.

Tap operation

Hydroboil and Econoboil are fitted with a two-way, cool-touch tap.



Boiling water will be dispensed



Press lever to dispense boiling water.



Push to lock for continuous flow.
If lever does not lock, rotate it 180° before dispensing.

Troubleshooting

In the event of a fault or failure, isolate power and water. Do not use the appliance. Contact a Zip authorised service agent for assistance, service, spare parts or enquiries.

Symptom	Possible cause	Solution
Fails to dispense water.	Water isolating valve turned off. Blocked filter, blocked meter tube, blocked strainer, jammed ball valve assy, airlock in transfer tube.	Check water supply valve. Contact Zip authorised agent.
Water not boiling.	No power. Faulty PCB, faulty element, faulty cut-out.	Check power supply. Contact Zip authorised agent.
Runs out of boiling water and fails to refill. Outlet tap drips. Overflow from vent. Excessive steam from vent. Power “on” but no heat. Overload repeatedly tripping with excessive steam. Overload repeatedly tripping without excessive steam.	Internal adjustment.	Contact Zip authorised agent.

Cleaning



Do not use strong, corrosive or abrasive cleaning materials. Stainless steel surfaces will show scratches if an abrasive cleaning product is used.

Wipe clean the outer surfaces with a sponge or a soft cloth using a mild soap and water.

End of life disposal

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details.



Zip Water (Aust) Pty Ltd

ABN 46 000 578 727

67-77 Allingham Street, Condell Park NSW 2200

Postal: Locked Bag 80, Bankstown 1885

Telephone: (+612) 9796 3100 | Free Call: 1800 947 827

zipwater.com

Zip Water UK

Trafalgar House, Rash's Green

Dereham, Norfolk NR19 1JG

0345 6 005 005 | sales@zipindustries.co.uk

specify.zipwater.co.uk

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