

Zip ChillTap Sparkling[®]

Undersink filtered / unfiltered chilled drinking water

Filtered chilled still and chilled sparkling water

Affix Model Number Label Here
89914UK



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Pre-installation Notes

- A. Read the instructions.
- B. Note: All fittings are supplied with the appliance kit except isolation valves, which are not supplied.
- C. The pressure limiting valve must be fitted as part of the kit.
- D. Check the water quality to determine if extra filtration will be required.
A potable mains water supply must be used.
- E. Check the appliance rating plate and ensure correct power is available for the appliance.
- F. Check the underbench cupboard supporting the appliance is adequate for the total weight of the appliance.

Read all instructions and precautions before proceeding. If in doubt, or need further guidance, please call Zip on 0845 602 4533.

Please leave these instructions with the end user after installation

This unit must be installed in accordance with water supply byelaws, current IEE regulations and relevant local authority byelaws.

Zip Heaters (UK) Ltd cannot be held liable for any damages caused by failure to observe these instructions.

Please leave these instructions with the end user after installation.

This product is approved to the LVD and EMC directives and CE endorsed.

Read These Warnings First



- Please read all Precautions, Installation Requirements, Installation Instructions before installing any Zip ChillTap.
- Never attempt to install any Zip ChillTap without reading all of the applicable instructions.
- Installation must comply with current IEE regulations and any Local Authority requirements.
- The plumbing installation must be done in accordance with local Water Authority regulations and these Installation Instructions.
- As the installer, it is your responsibility to supply (if necessary) and install all valves as required by local regulations and relevant standards.
- 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 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.

This appliance must be earthed.

- If the power supply cable is damaged it must be replaced by a Zip Service Engineer or a qualified electrician.
- The cross sectional area of the power supply cable must be appropriate for the power rating and location of the appliance.
- The power supply cable must be adequately secured.
- Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.
- Take care when lifting the Zip ChillTap unit. Some units may exceed safe lifting limits. If you feel this is beyond your personal capabilities, please seek assistance with the lift. The weights of the units are specified in product specification below. Do not lift the unit by the front cover.
- This unit is designed for indoor use and must not be installed outdoors or exposed to the elements of nature.
- This unit must not be positioned in an area that may be cleaned by a water jet.
- This unit must not be cleaned by a water jet.

Refrigerant

- The Zip ChillTap Chilling unit contains R134A refrigerant under pressure. No part of the unit should be exposed to a naked flame. Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration mechanic.

C02 - Disposable Cylinder

Compressed Carbon Dioxide, Food Grade

Cylinder Specifications:

- | | |
|----------------------|------------------------------------|
| • UN No: 1013 | • Test pressure: 12 MPa (120 bar). |
| • Class 2.2 | • Boiling Point: -78.5°C |
| • Code: ZT400 | • Non Flammable Gas |
| • Volume: 2.2 litres | • Non Toxic Gas |
| • Contents: 1,000g | • Std: EN12205 |
| • Tare: 1,745g | • Temp range: -20°C to +65°C |





CO₂ Cylinder Warnings:

- Pressurised container.
- Protect from sunlight.
- Contains gas under pressure, may explode if heated.
- Do not expose to temperatures exceeding 50°C.
- Do not pierce or burn, even after use.
- Do not refill – non rechargeable.
- Ensure cylinder is empty before disposal.
- Do not expose to naked flame or any incandescent material.
- Keep out of reach of children.
- High concentration of gas may cause asphyxiation.
- Use only in ventilated areas.
- Use only in an upright position.
- This bottle must be used with the approved pressure regulator.
- Avoid shock.
- Use according to MSDS. (Material Safety Data Sheet).

Product Specifications

Dimensions excluding fittings.

Model	Height (mm)	Depth (mm)	Width (mm)	Weight empty (kg)	Weight full (kg)
CS 125+	367	250	356	24	25

Total Rating:..... 0.14kW @ 230V AC.

Delivery Temperature:

Chilled: 3 - 6°C. Except under free flow conditions.

Sparkling: 3 - 6°C. Except under free flow conditions.

Flow Rate Sparkling: 1.2 - 1.8 l/min

Flow Rate Chilled: 4 l/min

Chilled or sparkling glasses/hr: 125

CO₂ Gas Pressure:.....0.27 MPa (2.7 bar)

Refrigerant: R134A.

Filter: Submicron

Accessories:

ZT004.....Tap Font Kit

ZT400.....CO₂ Cylinder

ZT002.....Submicron Replacement Filter

Installation Requirements

- A power supply of 220-240 Volt AC, for connection to the heater via a 13 amp fused spur. This switch must provide all-pole disconnection with a contact separation of at least 3mm, installed in accordance with IEE wiring rules.
- Operating temperatures 5°C - 35°C.
- Water pressure 0.14 MPa - 0.70 MPa (1.4 bar - 7 bar)
- A potable water supply with a minimum supply pressure of 0.14 MPa (1.4 bar). For best results we recommend a minimum static pressure of 0.2 MPa (2 bar).

Special Tools Required

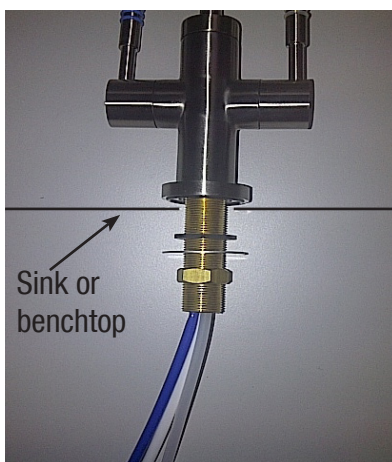
In addition to normal tools, the following will be required:

- 25mm diameter sheet metal hole punch for sink tops. (not supplied)
- 25mm diameter hole saw for timber bench tops. (not supplied)

When installing a Font unit:

- 108mm diameter sheet metal or hole saw to suit surface being cut.

Installation Instructions



Step A - Installing the Tap

Position and install the carafe filler at the back of the sink or on the Font, where there is a minimum 52mm wide flat area within the draining area of the sink.

Make sure the selected position allows the carafe filler spout to overhang the sink bowl.

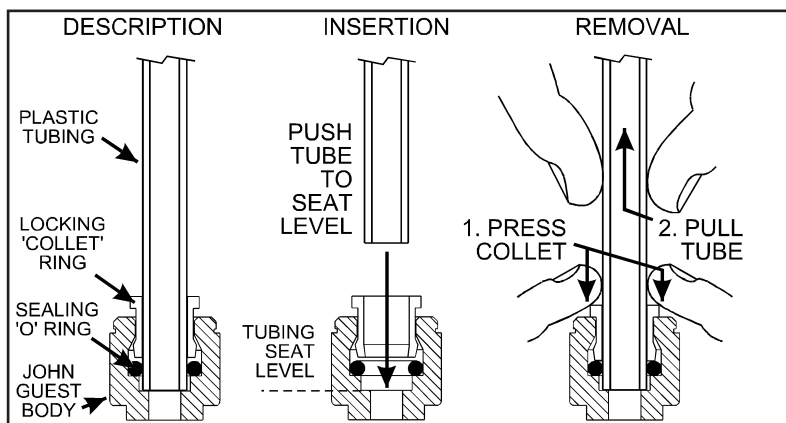
Use a 25mm sheet metal punch to create a neat hole without burrs.

Remove the large nut with the stainless steel and rubber washers from the base of the carafe filler, leaving the rubber-sealing ring (o-ring) in place.

Fit the carafe filler and seal to the sink, oriented so both the operating levers are easily accessible.

General instructions for John Guest connections

NOTE: Ensure all John Guest tube ends are cut clean and square.



Installation Instructions continued

Slide first, the rubber washer and then the brass washer, followed by the nut, over the plastic tubes from under the sink, and tighten the nut to secure the carafe filler firmly into place.

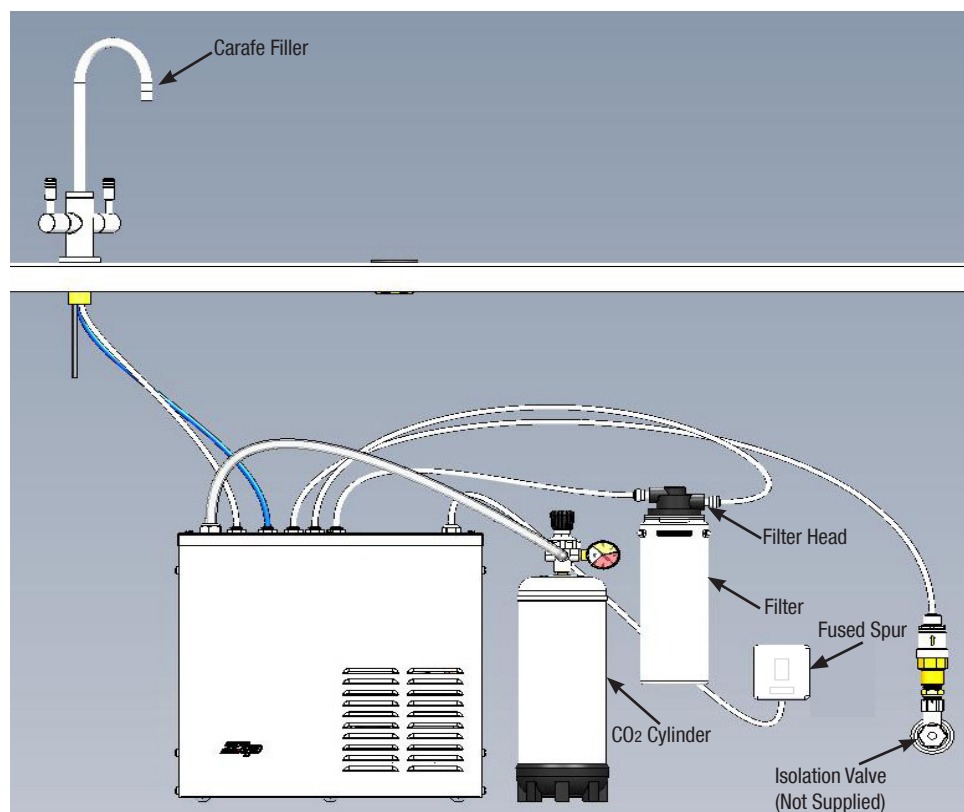
Step B - Installing the Chiller

Place the chiller unit into the cupboard with the proposed outlet tap position as close as possible, to minimise the length of tubing exposed between the chiller unit and the outlet tap. (The tubing length is limited to 1000mm)

Allow at least 50mm around the chiller unit to permit free airflow. Both the top and the front of the chiller must remain accessible for servicing purposes.

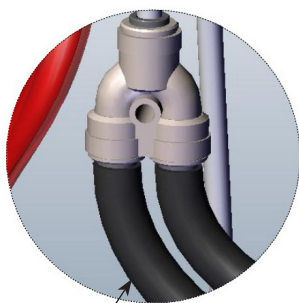
Step C - Installing the Filter

Position the filter and filter head on the inside of a cupboard wall in a convenient position as close to the unit as possible but still allowing access to change the filter. The filter head must be fastened to the cupboard wall in a position high enough to allow the removal and replacement of the filter cartridge. Connect a length of John Guest tube from the “To Filter” fitting on the unit to the inlet side of the filter head. The outlet of the filter head is connected back to the “From Filter” fitting of the unit. The distance between the filter head bracket and the chiller unit should not be greater than 1m. Install the filter to the filter head bracket. The filter should be activated by running 7.5 litres of water through the filter prior to connection to the unit.



Installation Instructions continued

NOTE: Take care, when bending rigid plastic tubing, to prevent it from kinking or crushing around a bend. As it is plastic tubing containing water under mains pressure, be careful not to nick, scratch or damage it during installation.



Black foam insulation over white hose

NOTE: When removing hose, take care not to lose the plastic olive from the nut.

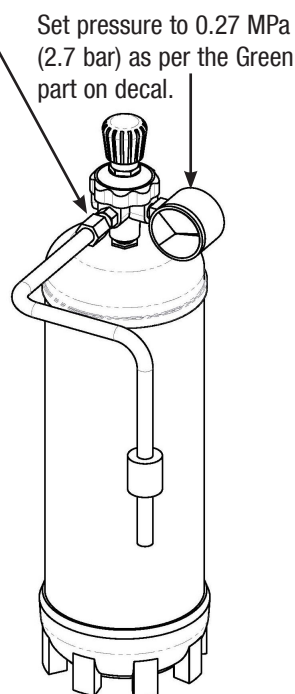


fig.1

Step D - Connecting:

NOTE: You must separately supply and install an isolation valve (not supplied) in the supply line before the connection to the product.

If required connect the 0.35 MPa (3.5 bar) pressure limiting valve (supplied) to the isolation valve. Minimum supply pressure must be 0.14 MPa (1.4 bar). For best results we recommend a minimum static pressure of 0.2 MPa (2 bar).

Mains Connection (with chiller inlet):

Take the supplied 1/4" white John Guest tubing, measure, cut and connect the tube from the outlet of the pressure limiting valve to the "Mains Inlet" on the top of the unit.

Make sure all connections to John Guest fittings are pushed in past the "O"ring to full depth, at least 15-16mm.

Chilled Still Connection:

Remove the plug fitted into the connection marked "Still Outlet" by first depressing the collet and simultaneously pulling out the plug. Measure and trim the 1/4" blue tube from the carafe tap to the JG fitting marked "Still Outlet" on the top rear of the chiller unit. Before making connection, insulate the tube with the loose length of the pipe insulation, trim the insulation pipe to correct length, which is about 10mm shorter than blue tube. Push the blue tube fully into the John Guest fitting marked "Still Outlet". Make sure all connections to John Guest fittings are pushed in past the "O"ring to full depth.

Chilled Sparkling Connection:

Remove the plug fitted into the connection marked "Sparkling Outlet" by first depressing the collet and simultaneously pulling out the plug. Similarly, measure and trim the 1/4" white tube from the carafe tap to the JG fitting marked "Sparkling Outlet" on the top rear of the chiller unit. Before making connection, insulate the tube with the loose length of the pipe insulation, trim the insulation pipe to correct length, which is about 10mm shorter than white tube. Push the white tube filling into the in John Guest fitting marked "Sparkling Outlet". Make sure all connections to JG fittings are pushed in past the "O"ring to full depth.

Using the tubing clamps to tidy up the installation.

The tap connection is now complete.

CO₂ Gas Connection:

Secure the gas bottle to a suitable wall, within 1 metre of the unit in an upright position. This is done by screwing the metal bar holding the Velcro strap to the wall. Locate the strap 200mm from the floor or base of the cupboard. Make sure the gas bottle can stand before securing to the wall. Due to regulatory requirements the gas bottle must be stored securely and in an upright position.

Remove the gas bottle from the strap. Make sure the regulator knob is turned fully anti-clockwise to the end-stop before fitting. Screw the regulator to the gas bottle. Be aware that some CO₂ may be discharged from the connection to the regulator as the bottle and the regulator are assembled together.

Any CO₂ released will be cold.

Installation Instructions continued

Connect the braided gas hose to the regulator, taking care not to lose the plastic olive in the braided hose nut. Turn on the regulator clockwise and adjust to 0.27 MPa (2.7 bar). The arrow should sit in the green section of the regulator gauge; it should not fall in the red or yellow sections.

Using soapy water perform a leak test. Apply the soapy water to the gas connections using a sponge. If any bubbles appear and grow, there is a gas leak at the connection. Clean away the soapy residue and tighten or refit the leaking connection. Make sure the regulator is turned off when tightening or refitting the leaking connection.

Once satisfied that there are no leaks and with the regulator set at 0.27 MPa (2.7 bar), refit the gas bottle to the Velcro strap and secure the bottle.

NOTE: Care must be taken when working with high pressure carbon dioxide, and in no cases should the normal operating pressure of 0.27 MPa (2.7 bar) be exceeded.

WARNING:

A gas cylinder containing 1kg of CO₂ should be installed in a well ventilated area or an area no less than 38m³.

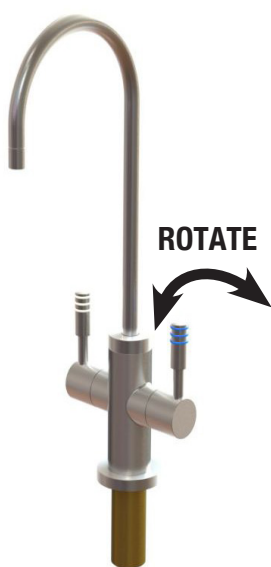
If more than 1 gas cylinder containing 1kg of CO₂ is present within the same location, the recommended ventilated area should be in proportion to the number of gas cylinders stored in that location.

A ventilated area is a non-enclosed area which could include the kitchen, living room etc.

See gas bottle and MSDS sheet for complete list of warnings.

Step E - Testing and Commissioning:

Do not turn power or water on to the unit. The carbonator must be purged first with the CO₂ gas. Failure to do so will result in poor tasting water. With the regulator set to 2.7 bar, turn the sparkling water lever on (white ringed lever) The CO₂ will start to run out of the tap. Gas will purge or escape from the tap at this point. Let it run for approximately 5 seconds to completely fill the tank. Close the sparkling lever by rotating back to upright.



Turn on the still water lever (blue ringed lever) then turn on the water supply to the unit. First air, then water will flow from the tap. Allow the water to continue to flow for about 7.5 litres, which is required to activate the filter. Once this has been done turn off the still water lever.

Connect the power supply and turn on.

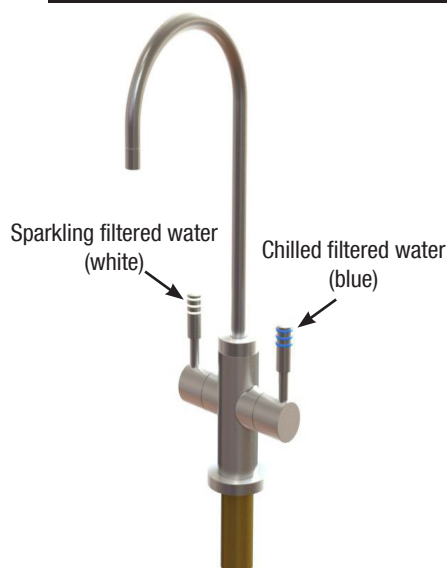
The compressor and fan will start, and the water pump will operate for approximately 20 seconds to fill the carbonator vessel.

After approximately 5 minutes, the compressor and fan will stop as the chiller has reached its normal operating temperature.

To achieve an optimal level of carbonation, it is beneficial to purge the carbonation vessel again by isolating the water and electrical supply, and opening the sparkling lever on the tap until gas is expelled for approximately 5 seconds. Close the tap and reconnect water and power. Wait 20 seconds and the sparkling water should be ready for use.

At this time check to ensure the pressure gauge is still reading 2.7 bar. If not,

Installation Instructions continued



adjust the regulator accordingly.

Important: Excessive flow rates of carbonated water will result in poor drink quality. It is recommended that the flow rate for carbonated water should be approximately 1.2 - 1.8 litres/minute. If this is incorrect, it must be adjusted by a qualified service technician.

Ensure there is adequate ventilation available through the cupboard. If there is inadequate ventilation, and the cupboard temperature rises to above 40°C, the chiller may be damaged and malfunction which will void the product warranty. The air temperature should be no more than 35°C.

There must be a minimum 168cm² of cupboard cross-flow ventilation. Suitable holes or vents will need to be cut into the cupboard and door.

For safe operation, thoroughly flush the water through after non-use periods longer than 24 hours.

Operating Procedures

Operation:

The lever on the right (Blue rings) is used for chilled still filtered water and the lever on the left (White rings) is used for chilled sparkling filtered water.

Chilled water is obtained by rotating the lever on the right, to a horizontal position. The water is chilled by a refrigeration unit fitted within the cabinet stand, under the basin.

With the carafe tap, you can obtain chilled water within the rated capacity, for as long as you leave the lever in the open (horizontal) position. When finished, return the lever to the OFF (upright) position.

Sparkling water is obtained in the same way as the chilled water, by rotating the lever on the left hand side of the carafe tap.

NOTE: After dispensing sparkling water, a small amount will remain in the carafe filler. If the next drink is to be still water and you do not wish any trace of sparkling water, the still water should be running for approximately 1 second before filling your glass or bottle. The same is applicable if still water is dispensed prior to dispensing sparkling water.

Filter Replacement

For safe operation, the filter cartridge should be replaced every 6-12 months, or earlier if you notice a persistent reduction in water pressure from the appliance or an unpleasant taste or odour in the water.

Filter Change

1. Turn off the water and power supply to the unit.
2. Turn the still water lever (blue ringed lever) on, to release any water pressure in the unit. Once water has stopped running from the tap turn off the lever.
3. Turn the filter clock wise and gently pull the cartridge down. The cartridge should release from the filter head. Dispose of the filter cartridge responsibly. Clean any water that has pooled below the filter head.

Operating Procedures continued

4. Fit a new filter by turning filter anti-clockwise and gently pushing up. The filter will click or lock into place.
5. Turn the still water tap on.
6. Turn on the water supply to the unit. Allow 7.5 litres to flow from the outlet.
7. Turn off the still water lever.
8. Turn on the power supply to the unit.

Warning

Not changing filtration cartridges when required, may cause the water to become biologically unsafe.

Use only a Zip Filter to match that used with this ChillTap (if fitted). Replacement filter cartridges can be obtained through plumbing suppliers or directly from Zip.

Replacement instructions come with the filter cartridges.

Before attempting to disconnect or remove the filter cartridge from the housing, isolate (turn off) the water supply prior to the filter system, and then relieve the system pressure by operating the chilled water outlet tap until the water ceases to flow.

Gas Bottle Replacement:

1. Turn off the water and power supply to the chilled sparkling unit.
2. Turn off the regulator on top of the bottle. The regulator has a left hand thread, to turn off, turn anti-clockwise until shut.
3. Remove the CO₂ bottle from its mounting and unscrew from the regulator.
4. Fit the new bottle, and turn on the regulator. Adjust the regulator to 0.27 MPa (2.7 bar). Be aware that some CO₂ may be discharged from the connection to the regulator as the bottle and the regulator are assembled together. Any CO₂ released will be cold.
5. Turn the sparkling lever to the on position. Leave it on until all the water has been purged through the tap. Let the tap run for a further 10 seconds to purge the CO₂ through the tank. Turn off the sparkling lever.
6. Turn on the cold water supply first and then the power supply.
7. Wait 20 seconds and then turn on the sparkling lever and wait for water to start to come through.
8. Dispense some sparkling water from the tap. Perform a taste test.

Service

There are no user serviceable parts but there are dangerous voltages present within the unit. All service work must only be carried out by a suitably qualified and experienced service person.

Before calling for service, check that both the water and electricity supplies are turned 'ON' and OK.

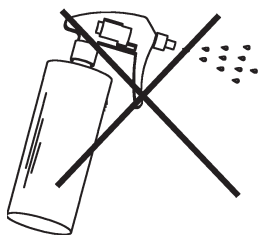
Call a licenced electrician, plumber, or Zip on 0845 602 4533, for assistance, service, spare parts, or enquiries.

Trouble Shooting

Prior to any fault finding, please ensure all water connections to the chiller are sound and that the incoming water supply is turned on. Also ensure that all electrical connections to the chiller are secure and that the chiller has had adequate time to cool down.

Symptom	Possible Cause	Responsibility	Solution
No still water.	Mains water not connected or turned on.	User or Service Technician	Connect or turn on water supply.
	Water pressure regulator failed.	Service Technician	Contact local Zip Service Provider.
	Unit frozen up.	Service Technician	Contact local Zip Service Provider.
No sparkling water.	No CO2 pressure.	User	Check pressure of CO2 bottle. Regulator to be set to 0.27 MPa (0.27 bar)
	Internal fault.	Service Technician	Contact local Zip Service Provider.
Poor levels of carbonation in drinks	Incorrect CO2 pressure.	User	Check CO2 regulator. Supply pressure should be 0.27 MPa (2.7 bar), adjust or replace as necessary.
	Air in carbonation can.	User	Purge system as described on page 9 "Gas Bottle Replacement".
	Residue in carbonation can.	Service Technician	Contact local Zip Service Provider.
	Carbonation can is overfilled.	Service Technician	Contact local Zip Service Provider.
Warm drinks	No power	User or Service Technician	Restore power to the unit.
	Thermostat faulty or out of calibration.	Service Technician	Contact local Zip Service Provider.
	Insufficient cooling air flow through the fridge	Service Technician	Contact local Zip Service Provider.
	Fridge failure	Service Technician	Contact local Zip Service Provider.
	Rated chilled water capacity has been expended	User	Allow unit sufficient time to recover.

Cleaning



Never use strong, corrosive or abrasive cleaning materials on the Zip ChillTap. Wipe clean the outer surfaces with a sponge or a soft cloth using a mild soap and water.

The louvres on the sides of the chiller unit need to be kept free of dust and lint to permit free flow of air through the vents. They should be checked regularly, at least monthly, and dusted or vacuumed.

Sanitising carbonation can may be required when the quality of sparkling water deteriorates. Please contact your local Zip service provider.

End of Life Disposal

In order to help preserve our environment we ask that you dispose of this product correctly.

Please contact Zip Customer Service for advice on 0845 602 4533.

CO₂ Cylinder Disposal

Steel CO₂ cylinders are fully recyclable.

To dispose, confirm the cylinder is empty by:

- Observing the regulator which should read 0 bar
- When shaken you will not be able to detect the movement of liquid within the cylinder.

Any remaining CO₂ should be drained before discarding.

Do not dispose of full CO₂ cylinder.

Do not discharge into any place where accumulation could be dangerous.

Discharge to atmosphere in a well ventilated place.

Discharge to atmosphere in large quantities should be avoided.

To drain cylinder, in a well ventilated area, attach the regulator to the bottle and open the valve until the gas cylinder is empty.

Once empty, **do not** dispose of with general household waste but take to your local recycling centre.

Contact Zip Customer Service for advice on 0845 602 4533 if further guidance is required.

Notes

Warranty

Certain warranties may be implied by law into your contract with Zip. The warranty provided below is additional to these implied warranties and nothing set out below shall limit your statutory rights or rights at law.

Zip Heaters (UK) Ltd warrants that, should any part fail within 12 calendar months of installation, that part will be repaired or replaced free of charge by Zip or its Distributor or Service Provider, except as set out below, provided the appliance is installed and used strictly in accordance with the instructions supplied, and that failure is not due to accident, misuse, abuse, unsuitable water conditions, or to any alteration, modification or repair by any party not expressly nominated by Zip.

No costs are payable by the customer other than any mileage or travelling-time charges incurred by a Zip Service Provider or the cost of removal, cartage and re-installation of any component of the appliance if it needs to be returned for repair to Zip or its Distributor.

This warranty does not cover damage resulting from non-operation of the appliance, the use of non authorised parts or consequential damage to any other goods, furnishings or property.

No warranty applies to the life of any filtration cartridge installed with the appliance as cartridge life may vary according to water quality and the rate of water consumption.

Zip does not exclude, restrict or modify any liability that cannot be excluded, restricted or modified or which cannot, except to a limited extent, be excluded, restricted or modified as between the owner or user and Zip under the laws applicable.

Furthermore, this warranty does not displace any statutory warranty, but, to the extent to which Zip is entitled to do so, the liability of Zip under any statutory warranty will be limited at Zip's option to the replacement of the appliance or supply of equivalent appliance, the payment of the cost of replacing the appliance or acquiring an equivalent appliance, or the payment of the cost of having the appliance repaired or the repair of the appliance.

Registering Your Purchase

Registering your Zip installation on the Zip website may help to establish date of installation should it become necessary to service the appliance under terms of the Zip warranty. To register your installation go to www.zipindustries.co.uk and look under the heading "Warranty".

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