

Installation and Operating Instructions

Zip ChillTap[®] Sparkling

Filtered chilled still and chilled sparkling water



Affix Model Number Label Here

89914



Notes

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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.
- 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.

*** NOTE:**

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.

All plumbing must comply with AS/NZS 3500.4.1 & AS/NZS 3500.4.2

All electrical must comply with AS/NZS 3000 wiring rules

All refrigeration must comply with AS/NZS 3350.2.24

Read These Warnings First



1. Please read all Precautions, Installation Requirements, Installation Instructions before installing any Zip ChillTap.
2. Never attempt to install any Zip ChillTap without reading all of the applicable instructions.
3. All electrical connections must comply with current wiring rules.
4. This appliance is not designed for use by young children or infirm people without supervision.
5. Young children should be prevented from having access to ensure they are not able to use or play with the chiller.
6. This appliance must be earthed.
7. If the power supply cord is damaged it must be replaced by a Zip Service Provider or a qualified electrician.
8. The power cord and general power outlet must be in a safe and accessible position after installation.
9. Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.
10. This unit is designed for indoor use and must not be installed outdoors or exposed to the elements of nature.
11. This unit must not be positioned in an area that may be cleaned by a water jet.
12. This unit must not be cleaned by a water jet.

Product Specifications

Model	Height mm	Depth mm (including fittings)	Width mm	Weight empty kg's	Weight full kg's
CS	335	442	290	25	26

Installation Requirements

- Power supply 220-240V AC 50Hz for connection via a 10amp G.P.O.
- Operating temperatures 5°C - 35°C.
- Water pressure 250kPa - 700kPa (0.7 bar -7 bar)

NOTE: For best results we recommend a minimum static pressure of 200kPa (2 bar)

Special Tools Required

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

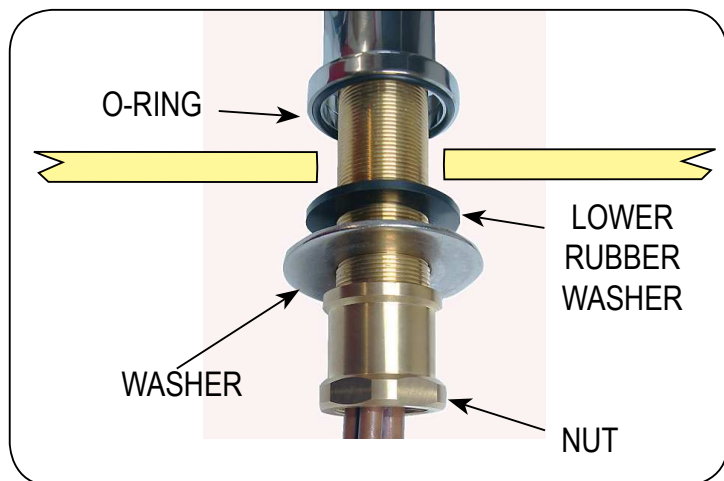
- 25mm diameter sheet metal hole punch for sink tops. (not supplied)
- 25mm diameter hole saw for timber bench tops. (not supplied)

When installing a Font unit:

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

Section 1

Tap Installation



1.1 - 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.

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

NOTE: The Clear tube must be trimmed to length and blocked with the JG fitting supplied.



Section 2

Ventilation

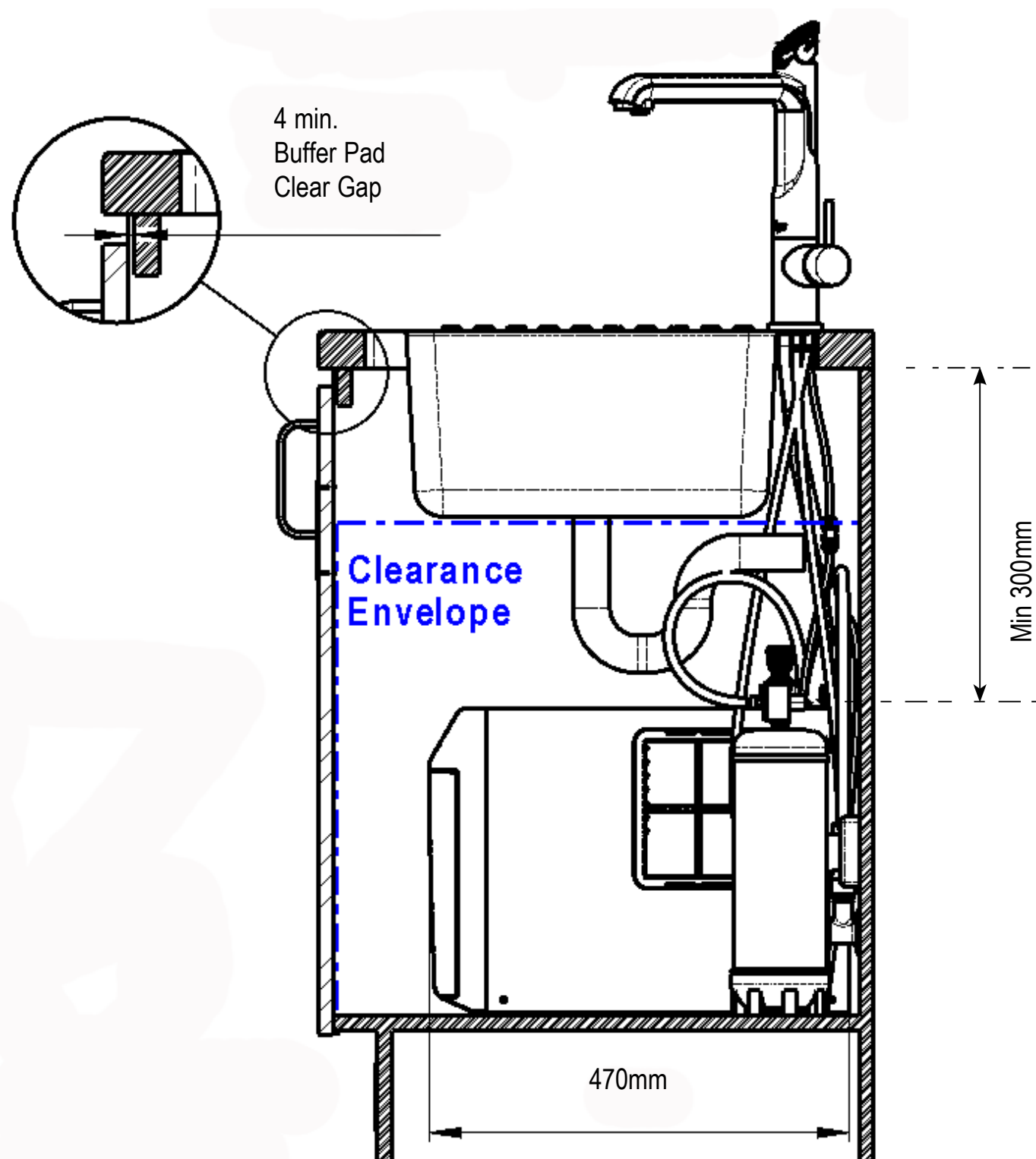
- When installing air flow ducts, the following tools will be required:
- Jigsaw and 12mm Drill
- Keyhole or Wall Board saw.

2.1 Ventilation for All Models

Proper air circulation must be provided for all Boiling and Chilled models. The system will operate correctly only if the recommended air gaps are achieved during Installation. The minimum requirement is for a 50mm air gap either side and 300mm above of the undersink unit.

It is important that the 4mm door buffers (For all installations) are fitted to the inside edge of the cupboard door to allow sufficient air circulation inside the cupboard. (See the diagram below).

IMPORTANT: See section 4 for clearances.



Ventilation

2.2 The following instructions are critical if there is insufficient cupboard air circulation.

If the air flow, using the silicon door buffers, is insufficient, it will be necessary to fit a standard HydroTap vent kit, which ensures heat dissipation through natural convection via installed vents.

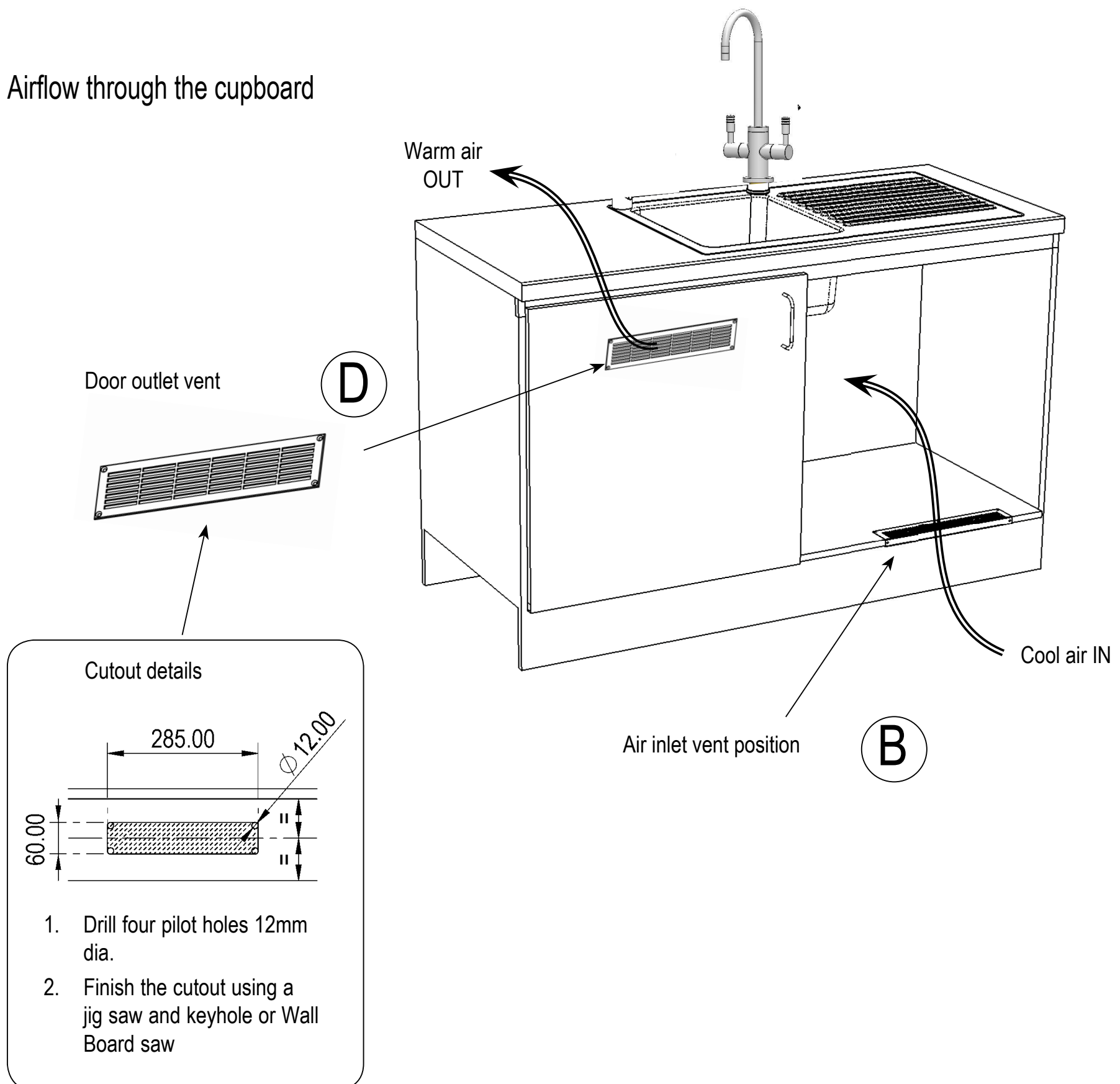
For high use applications, where the cupboard space temperature is near 35°C, or higher, the inlet vent (See Item B below) and silicon buffers, need to be fitted. If the airflow is still insufficient to maintain normal operating temperatures then the inlet vent and door outlet vent (See item D below) will need to be fitted.

Alternatively a fan kit may be installed, using the AUX din plug of the right hand side of the appliance (Contact your local service centre for availability).

Note: The vent kit has to be installed in a way that allows air to be drawn in from the bottom of the cupboard and expelled through the top of the cupboard. Therefore placement of the outlet vent should be towards the top of the door or on the side of the cupboard.



Airflow through the cupboard

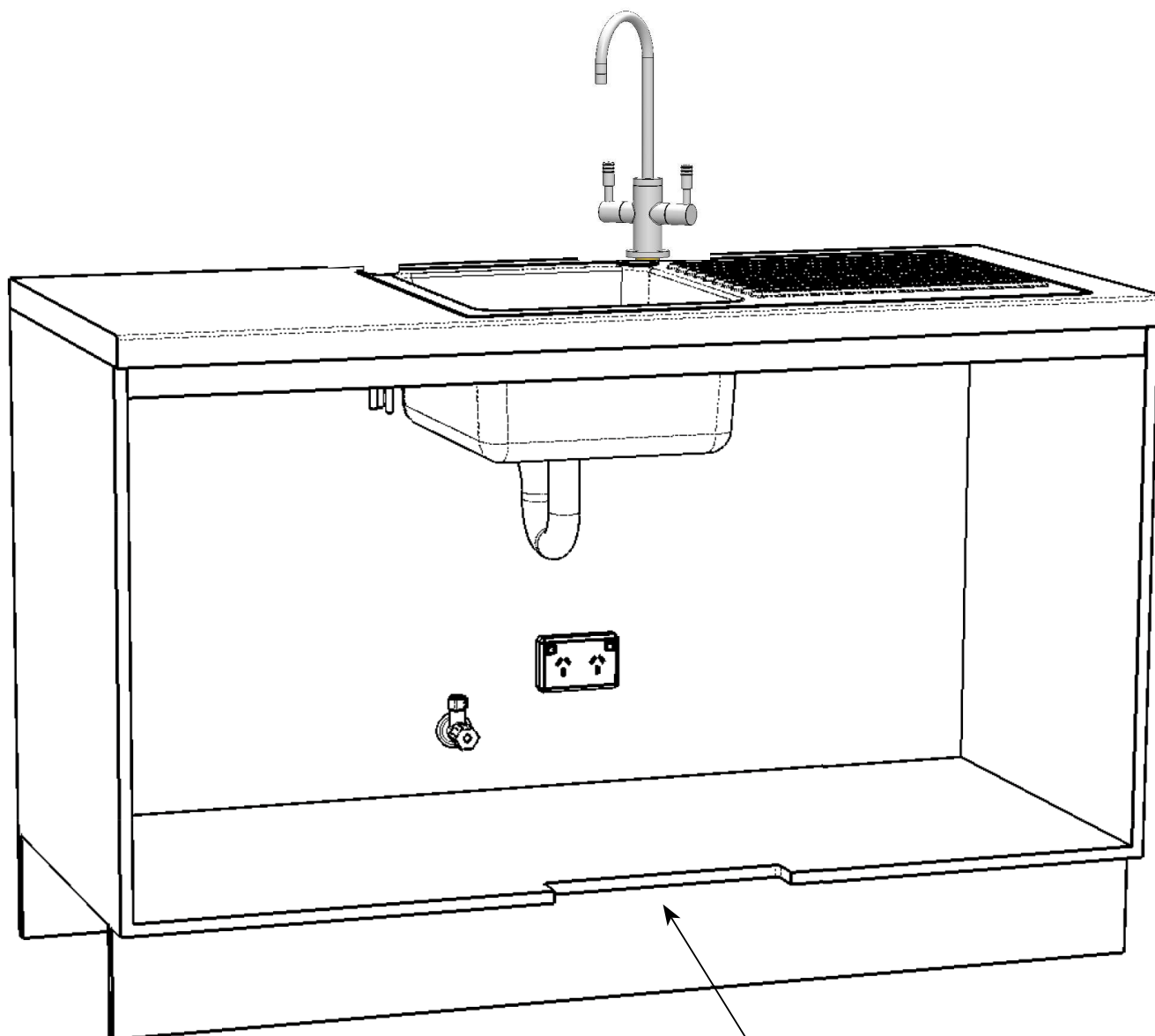


Ventilation

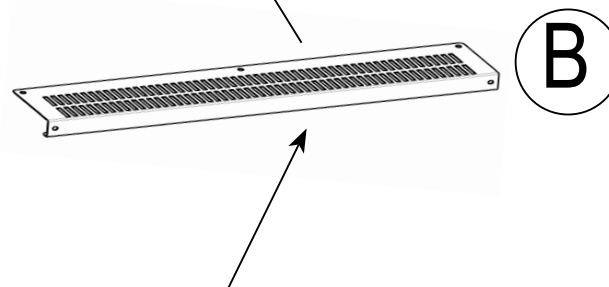
Typical Cut out procedure for

(B) (D)

1. Mark out and cut the air inlet and door outlet holes as shown
2. Ensure the air inlet vent and air outlet vent are positioned at opposite ends of the same cupboard space.
3. Fit the inlet vent, as shown and secure with 5 screws
4. If required, fit the outlet vent, as shown in the hottest part (top) of the cupboard and secure with 4 screws



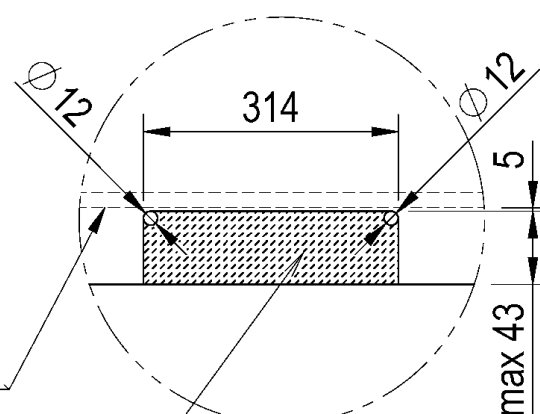
Air inlet vent



Cutout details

KICKBOARD FRONT

CUT-OUT AREA



1. Drill 2 holes Ø12 as shown on sketch

2. Finish cut-out using Jigsaw

Section 3

CO₂ Cylinder



WARNING:

This cylinder must be installed in an open plan area or in an enclosed room, with a volume no less than 20m³. If more than 1 gas cylinder containing 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 a complete list of warnings. (See: www.zipindustries.com)

3.1 Secure the cylinder mounting:

Secure the gas bottle supplied to a suitable wall, within 1 metre of the unit, in an upright position. This is done by screwing the metal plate holding the Velcro strap to a cupboard wall, 200mm above 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.

3.2 Connect the regulator:

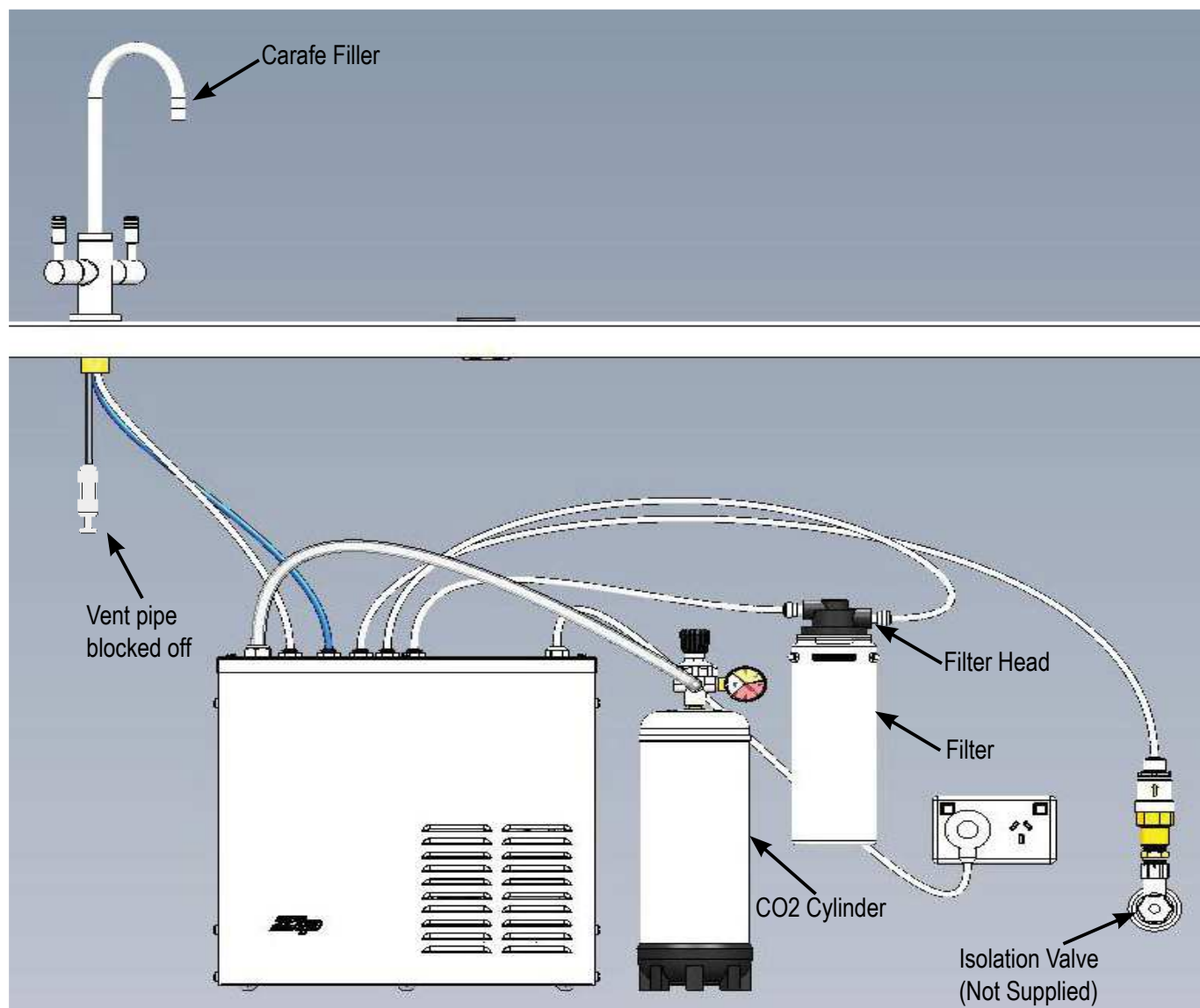
Make sure the regulator knob is turned fully anti-clockwise to the end-stop before fitting. Fit the regulator to the gas bottle. Be aware that some CO₂ may be discharged from the connection to the regulator as the bottle and the regulator are assembled together. Any CO₂ released will be cold. Continue to screw on the regulator to stop this leakage.

3.3 Connect the gas hose:

Connect the braided gas hose to the top of the undersink unit via the John Guest fitting marked 'Gas IN'. Then connect the threaded end to the regulator, taking care not to lose the plastic olive located inside the threaded nut. To turn the gas ON, rotate the regulator knob clockwise and adjust to 2.7-3.0 bar (270-300kPa). The arrow should sit in the green section of the regulator gauge; it should not fall in the red or yellow sections.

Section 4

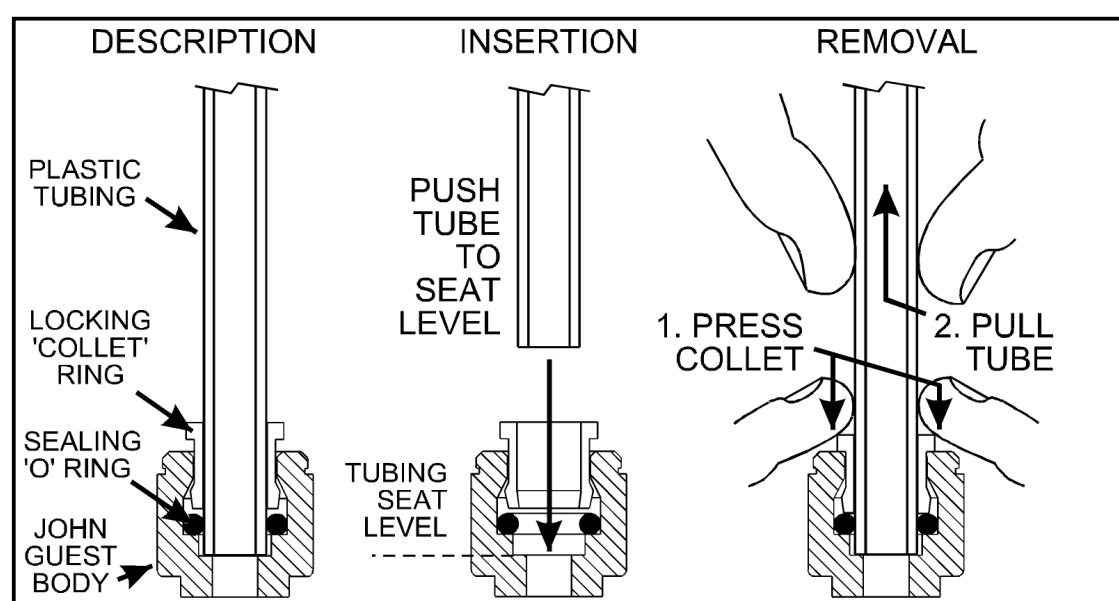
Undersink Unit Installation



John Guest (JG) fittings

General instructions for John Guest connections

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



4.1 - Chiller Installation

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.

4.2 - Hose and Tube connections:

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

Connect the tube to the isolation valve (via the JG fitting). For best results we recommend a minimum static pressure of 250kPa (2.5 bar).

Mains Connection (with chiller inlet):

Connect the tube from the isolation valve to the JG fitting on top of the undersink unit, marked MAINS IN.

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 foam insulation, trim the insulation to the correct length, which is about 5-10mm 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 foam insulation, trim the insulation to the correct length, which is about 5-10mm shorter than white tube. Push the white tube fully 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.

Use the tubing clamps to neat up the installation.

The tap connection is now complete.

IMPORTANT: The Clear tube is non functional. However, it must be trimmed to length and blocked with the JG fitting supplied, otherwise water will leak from it whenever the tap is operated.

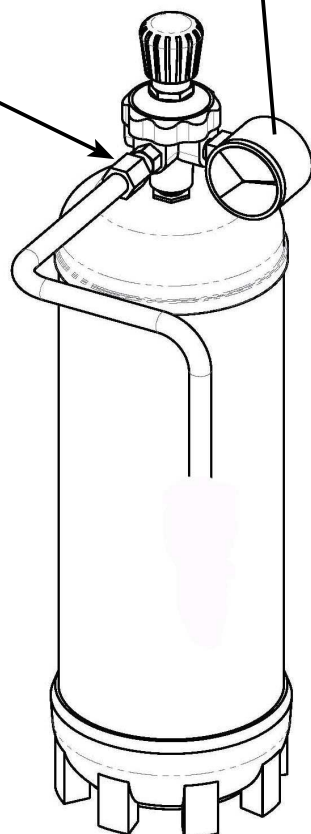


Note: To avoid water leaks, take care when bending rigid plastic tubing. The tube must not be kinked or crushed around a bend, as the tube may containing water under pressure. Therefore be careful not to nick, scratch or damage the tube during installation.

CO2 pressure set zone: 2.7- 3.0 bar



NOTE: When removing plug from end of braid, take care not to damage plastic olive.



4.3 - CO2 Gas Connection:

Connect the braided hose to the fitting marked 'CO₂ IN' on top of the undersink unit. Turn on the regulator clockwise and adjust to 2.7-3.0 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 2.7-3.0 bar, ensure the gas bottle is securely mounted in an upright position, using the velcro strap.

NOTE: Care must be taken when working with high pressure carbon dioxide, and in no cases should the normal operating pressure of 2.7-3.0 bar, be exceeded.



WARNING:

This cylinder must be installed in an open plan area or in an enclosed room, with a volume no less than 20m³. If more than 1 gas cylinder containing 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 a complete list of warnings.
(See: www.zipwater.com)

Soap test



Faulty seal joint



After replacing a bottle or after making a gas connection:

Stage1:

1. Turn the gas OFF
2. Using soapy water applied with a sponge, or with a brush, cover all of the gas joints with a liberal amount of suds.
3. Alternatively, use a leak detecting spray.

Stage 2:

1. Turn ON the gas
2. Inspect the joint for leaks
3. If any bubbles appear, the joint will need to be resealed.

Section 5

Commissioning

5.1 - Test and Commission:

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 2.7-3.0 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 and turn ON at the GPO and at the side of the undersink unit.

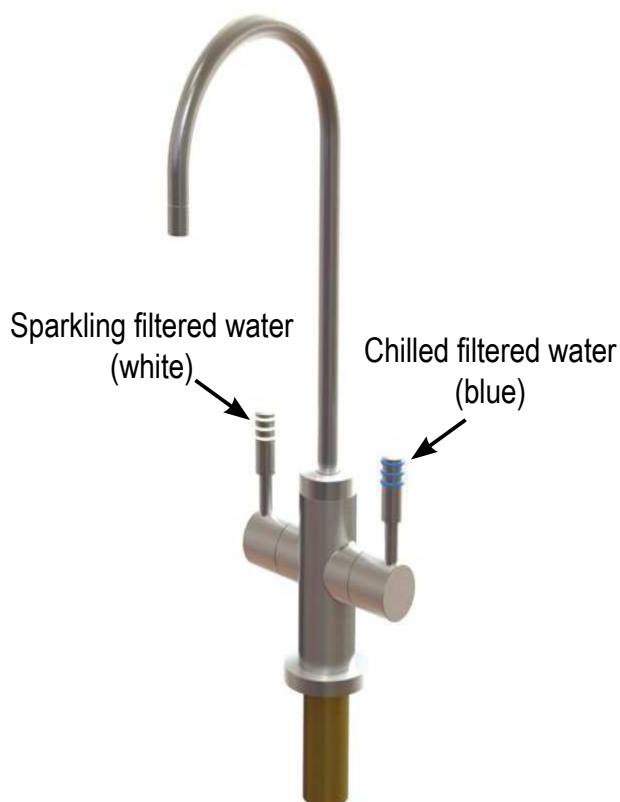
The compressor and fan will start, and the water pump will operate for approximately 20 seconds to fill the carbonator vessel.

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 2.7-3.0 bar. If not, 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.



Operation

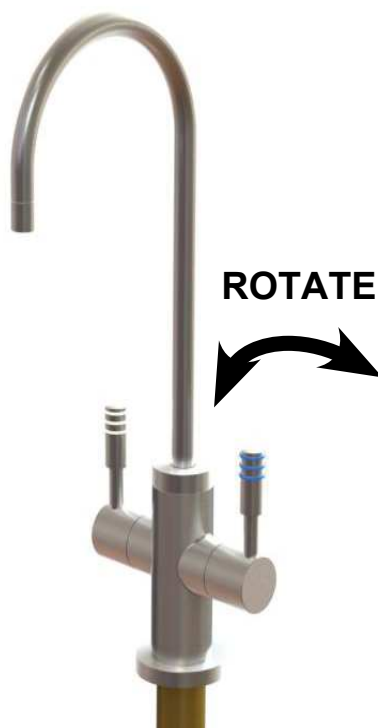
The lever on the right (Blue rings) is used for chilled still filtered water and the lever on the left (White rings) is used for chilled sparkling filtered water.

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.



Section 6

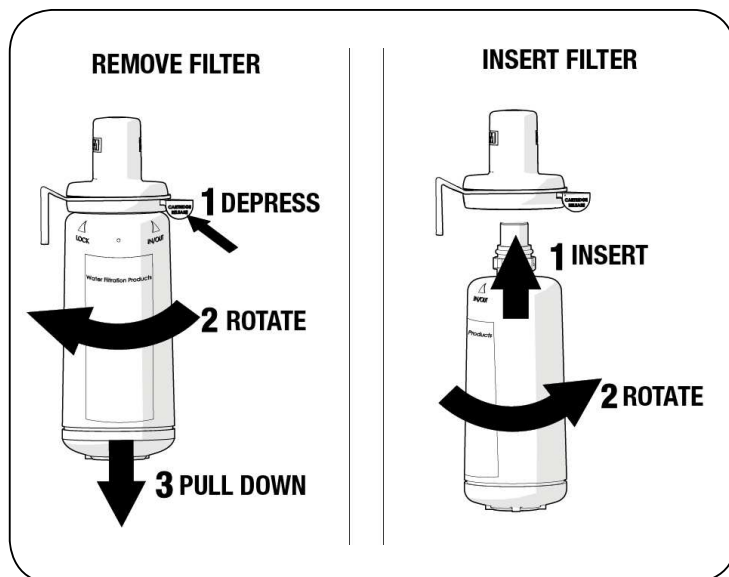
Maintenance

Water Filter Replacement

NOTE: 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.

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.
4. Fit a new filter by turning filter anticlockwise 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



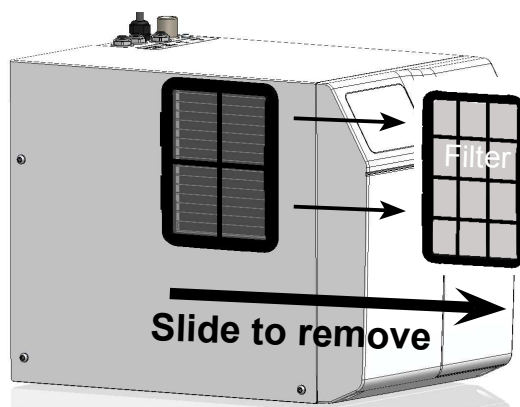
Not changing filtration cartridges when required, may cause the water to become biologically unsafe.

If the Zip HydroTap is switched off for a long period of time (e.g. More than a weekend), run water through the chilled water outlet for at least 5 minutes before consumption.

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.



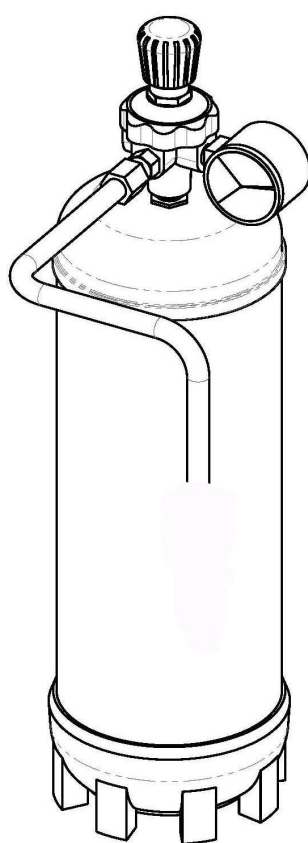
Air Filter Change:

The Zip HydroTap air filter is conveniently located on the outside of the condenser. The filter screen is a sliding fit in the plastic housing on the left hand side of the under sink unit. The screen may be removed for cleaning, by sliding it forward. This needs to be inspected at least quarterly, cleaned and replaced if damaged.

Note: For best performance the unit should only be operated with a clean air filter screen, correctly fitted in place. Maintain, at least, a 50mm air gap in front of the screen at all times. Take care not to allow cloths or other soft materials to accidentally block the air inlet.



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 anticlockwise until shut.
3. Remove the CO2 bottle from its mounting and unscrew the bottle from the regulator. The braided hose may be left connected to the regulator, or, for convenience, removed and refitted to the regulator and new bottle.
4. Connect the new bottle to the regulator. Be aware that some CO2 may be discharged from the connection to the regulator when the bottle and the regulator are assembled together. Any CO2 released will be cold.
5. Ensure the braided hose is correctly fitted to the regulator, with the sealing olive in place, before turning on the gas.
6. Turn the regulator on and adjust to 2.7- 3.0 bar.
7. 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.
8. Turn on the cold water supply first and then the power supply.
9. Wait 20 seconds and then turn on the sparkling lever and wait for water to start to come through.
10. 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 for a free call in Australia on 1800-638-633, for assistance, service, spare parts, or enquiries.

Trouble Shooting

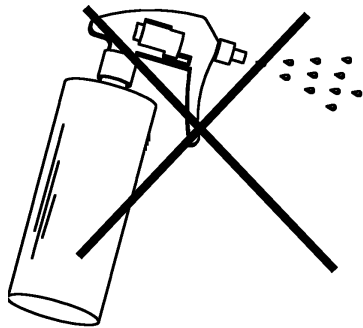
Prior to any fault finding, please ensure all water connections to the chiller are sound and that the incoming water supply is turned on. Also ensure that all electrical connections to the chiller are secure and that the chiller has had adequate time to cool down.

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 270kPa.
	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 270kPa (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..

Trouble Shooting continued

Symptom	Possible Cause	Responsibility	Solution
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 be 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 cabonation 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 your local city council for collection centre details.

Notes

Contact Details

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