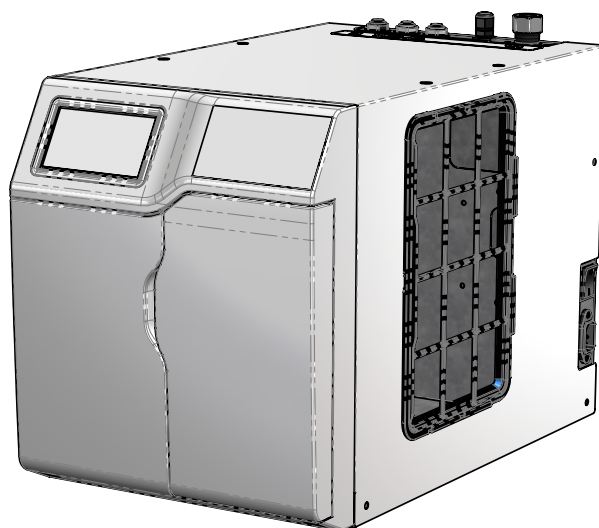


Zip HydroTap[®]

Installation and Operating Instructions



CS Commercial



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English



French

Faucet Options

The HydroTap appliance series offers a range of interchangeable faucets to suit the customer's needs. For ease of installation, it is recommended to fit the faucet before installing the Command Center. The installation procedure for each of the faucets is detailed in the faucet installation instruction book, supplied with the faucet.

For all operational features of the HydroTap, please refer to the User Guide.

Faucet options



Classic



Arc



Cube



Wave

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STEP 1 - Measure and cut all the faucet holes before fitting the faucets (Refer to the Faucet installation instruction book)

STEP 2 - Check for adequate ventilation

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Installation Checklist

Before Installation:

- A. Read the instructions and check if there is adequate space to mount all of the components.
- B. **Note:** Not all fittings are supplied with the appliance kit. Isolation valves and special tools are not supplied (see Technical Specification for details).
- C. Check the mains water pressure is between 250 - 700 kPa (37 - 100 psi).
- D. Check the water quality to determine if extra filtration will be required.
Note: This product must be fitted to a potable water supply.
- E. Check the appliance rating plate and ensure correct power is available for the appliance.
- F. Check the under counter cabinet supporting the appliance is adequate for the total weight of the appliance, when full of water.

Before Commissioning:

- 1. Check the Command Center has been installed correctly.
- 2. Flush the supply line before connecting to the Command Center.
- 3. Check all plumbing fittings have been tightened.
- 4. Ensure the outlet and vent pipes are positioned to drain correctly.
- 5. Ensure there is adequate ventilation.
- 6. Check all tubes from the Command Center to the faucet, have a constant rise and there are no sags or kinks in the hoses.
- 7. Check all electrical connections are correct and there are no loose wires.

Commission: (See section 5)

- 8. Turn on the gas and water and check for leaks.
- 9. Turn on the power.
- 10. Purge the CO₂.
- 11. Flush the filter.
- 12. Where applicable, programme the Command Center to suit the customer's requirements.

Important Safety Instructions

Thank you for purchasing a Zip HydroTap. Please read and follow these instructions carefully to ensure safe and trouble-free service.

What is the Zip HydroTap ?

The Zip HydroTap CS faucets are electronically controlled, filtered, Chilled and Sparkling water, drinking systems for kitchens and tea rooms.

The HydroTap Command Centers are under bench drinking water appliances with a dispensing faucet mounted on a sink or bench, which may be used for commercial applications. These units utilise a conventional refrigerant compressor to chill the water and utilise a CO₂ gas cylinder to carbonate the chilled water. The CS models will dispense chilled water, factory set to 3 - 5 °C (37 - 41 °F). These models are NOT designed to be used for sanitary fixtures.

In addition, there are various energy saving options accessible via the main menu. The CO₂ bottle and the water filter cartridge will require periodic replacement and are covered by a limited OEM warranty.

It is important that the Installation be done safely, correctly and completely, in order to utilise all the benefits the HydroTap can provide. Classic Faucets may be ordered with an Accessibility Lever Kit. The accessibility levers are supplied with Braille caps for the visually impaired.

This manual contains important safety and installation instructions for the Zip HydroTap.

Safety

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.



For products sold in Europe, 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Refrigerant

The Zip HydroTap Command Center contains R134A refrigerant under pressure. Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration technician.

Qualifications

If the power cable is damaged it must be repaired only by a qualified technician. To avoid hazards, all Installation procedures must be carried out by a suitably qualified tradesperson. The power cable and power outlet must be in a safe visible position for connection.

Venting

Ensure the faucet body is located so the faucet outlet safely dispenses into the sink bowl area.

Lifting

Take care when lifting the Zip HydroTap Command Center. 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 marked on the packaging. Do not lift the Command Center by the front cover or any connections at the top rear of the unit. Refer to the technical specifications for the weight of your product.

Important Safety Instructions

Airflow

The ambient operating temperatures, when installed in a cabinet, must be between 5 - 35°C (41 - 95°F). The system will operate satisfactorily only with proper air ventilation. The recommended air gaps of 50mm (2") on each side, and 200mm (8") above must be provided. See section 2 for correct ventilation details.

Positioning

It is important to ensure the Command Center is positioned in an accessible area close to the floor level. The Command Center must have its base mounted in a horizontal position with all inlets and outlets facing up. The Faucet must be located above the Command Center. See section 4 for details.

WARNINGS

1. The Zip HydroTap Command Center must be earthed. The resistance of the earth connection from each exposed metal part must be less than 1 ohm.
2. All Installation and service work must be completed by trained and suitably qualified Tradespeople. Faulty operation due to unqualified persons working on this product, or any other Zip product may void warranty coverage.
3. All Plumbing and Electrical must comply with local, state and federal codes.
4. All Plumbing and Electrical connections must be made in accordance with local regulations.
5. This HydroTap product is rated for 220-240V, 50-60Hz AC operation.
6. Command Centers must never be located near, or cleaned with water jets.
7. Zip HydroTaps are not to be exposed to the elements of nature
8. Due to the process of continuous improvement, Zip reserves the right to change details mentioned in this manual, without notice.
9. If this device is not maintained and operated as specified in this document, there is a risk of exposure to contaminants.
10. When dispensing hot water, the device can create a scald hazard.
11. If this device is not maintained and operated as specified in this document, there is a risk of exposure to contaminants.

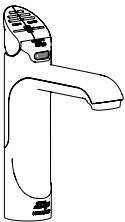
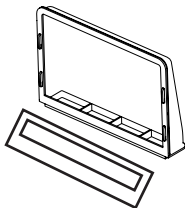
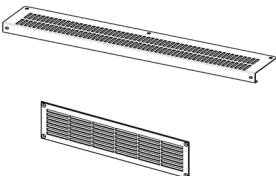
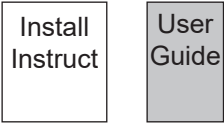


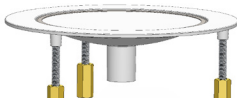
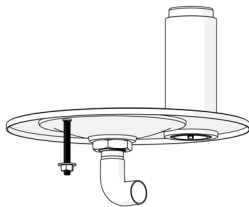
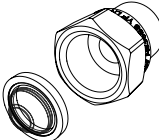
CO₂ Cylinder Warnings:

- Pressurised container.
- Protect from sunlight.
- Contains gas under pressure, may explode if heated.
- Do not expose to temperatures exceeding 50°C (122°F).
- Do not pierce or burn, even after use.
- 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.
- Store in a location with a volume of no less than 50 cubic meters for each 6 lb bottle.
- 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).



Major Components and Accessories

Parts supplied	Description
	1x HydroTap Faucet with hoses (Classic faucet shown)
	1x HydroTap Command Center with air and water filters
	1x Mains water connection hose
	Duct kit 1x Air Duct 1x Mounting plate
	Vent Kit 1x Inlet vent 1x Outlet vent 9 x Screws
	1x Installation Instructions (this book) and 1x User Guide
	1x CO ₂ gas cylinder & regulator assembly

Accessories	Description
	Font (Drip Tray) Kit for Arc & Cube models 93580US (Chrome)
	Font (Drip Tray) Kit for Classic Models 93303US (Chrome)
	Replacement Filter 1.5Z-LS (Culligan P/N: 01034277)
	Accessibility Lever Kit for Classic Faucet
	1x Connector + Strainer Sub-assy

Technical Specifications

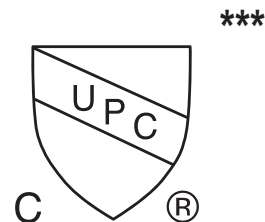
Commercial Models*:

CS 175 - Classic XX

CS 175 - ARC XX

CS 175 - CUBE XX

CS 175 - Wave XX



CS 175: Chilled and Sparkling	
Chilled glasses per hour (1 glass = 6.7oz)	175
Command Center dimensions, W x D x H, mm (in)	340 x 477 x 333 (13 ¹ / ₄ " x 18 ³ / ₄ " x 13 ¹ / ₄ ")
Dry weight, kg (lb)****	26 kg (57.5 lb)
Water inlet connection	1/2" BSP
Power outlets required	1x NEMA6-15: 230V, 50/60Hz, 15A
Power rating	1.5A (450W) at 220-240V, 50/60Hz
Refrigerant	R134a

NOTES:

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that contain filterable cysts.

* Available in a range of premium metallic finishes. XX refers to the specific finish of the faucet.

** CS175 – Classic XX, CS175 – ARC XX and CS175 – CUBE XX have been tested and certified by WQA against NSF/ANSI Standard 372 for low lead requirement, and against NSF/ANSI Standard 42 and NSF/ANSI Standard 53. This will deliver the required bacteriostatic effect and the reduction of aesthetic chlorine, taste, odor, nominal particulate Class I ($\geq 0.5 \mu\text{m}$ to $< 1 \mu\text{m}$), cyst and lead as verified and substantiated by test data. See Performance Data Sheets for specific performance claims. Certified performance claims are only valid when filter cartridge 1.5Z-LS (Culligan Part Number 01034277) is used.

*** CS175 - Classic XX, CS175 - ARC XX, CS175 - CUBE XX, and CS175 - Wave XX have been certified by IAPMO R&T against NSF/ANSI Standard 372 for low lead requirement, NSF/ANSI Standard 42, NSF/ANSI Standard 53, CSA B483.1, and ASSE 1087. This will deliver the required bacteriostatic effect and the reduction of aesthetic chlorine, taste, odor, nominal particulate Class I ($\geq 0.5 \mu\text{m}$ to $< 1 \mu\text{m}$), cyst and lead as verified and substantiated by test data. See Performance Data Sheets for specific performance claims. Certified performance claims are only valid when filter cartridge 1.5Z-LS (Culligan Part Number 01034277) is used.

**** Add an extra 5 kg (11 lb) when full of water.

Before Installation



Before installing ensure that the following have been provided at the installation site:

- Review all the technical specifications.
- Ensure the underbench can support the product weight when full of water, (allow an extra 5 kg (11 lb) when full.)
- Sufficient space in the cabinet to install all of the Command Centers in accordance with these Installation Instructions. Refer to technical specifications and section 4, for Installation instructions.
- A 220-240V, 10A AC electrical power outlet will be required.
- A potable water supply connection with isolating valve inside the cabinet within reach of the braided hoses and positioned so that the connection point and the stop cock will not be obstructed when the Command Centers are installed.
- A cold water supply with a working pressure range of 250 - 700 kPa (37 - 100 psi) connected via an isolation valve. Water inlet connection size is 1/2" BSP. The system shall only be supplied with cold water.
- Potable water should have a minimum TDS (Total Dissolved Solids) of 50 ppm. In areas where the TDS exceeds 150 ppm and where mineral scale could be a problem, consideration should be given to the maintenance required. Adding a water softener or reverse osmosis system should be considered.
- Ensure sufficient space for ventilation, including minimum clearances and installation of vents. See Section 2.
- The appliance must be placed with its base in a horizontal position.



Note: Check all cable and hose lengths against inlet/outlet positions before proceeding (see Section 4 for general layout).



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

Special Tools Required:

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

- 35mm (1 $\frac{3}{8}$ ") diameter sheet metal hole punch for sink tops (not supplied)
- 35mm (1 $\frac{3}{8}$ ") diameter hole saw for timber bench tops (not supplied)
- Nut runner tube spanner (supplied) for fixing Classic faucet assemblies.
- 1 $\frac{11}{16}$ " AF Tube spanner or wrench (not supplied) for fixing the Arc/Cube Faucet assemblies

Section 1

Faucet Installation

Refer to the Faucet installation instruction book.

Section 2

Ventilation

When installing air flow ducts, the following tools will be required:

- Jigsaw and a 12mm (½") Drill
- Keyhole or Wall Board saw.

2.1 Ventilation for All Models

Proper air circulation must be provided for all models. The system will operate correctly only if the recommended air gaps are achieved during installation.

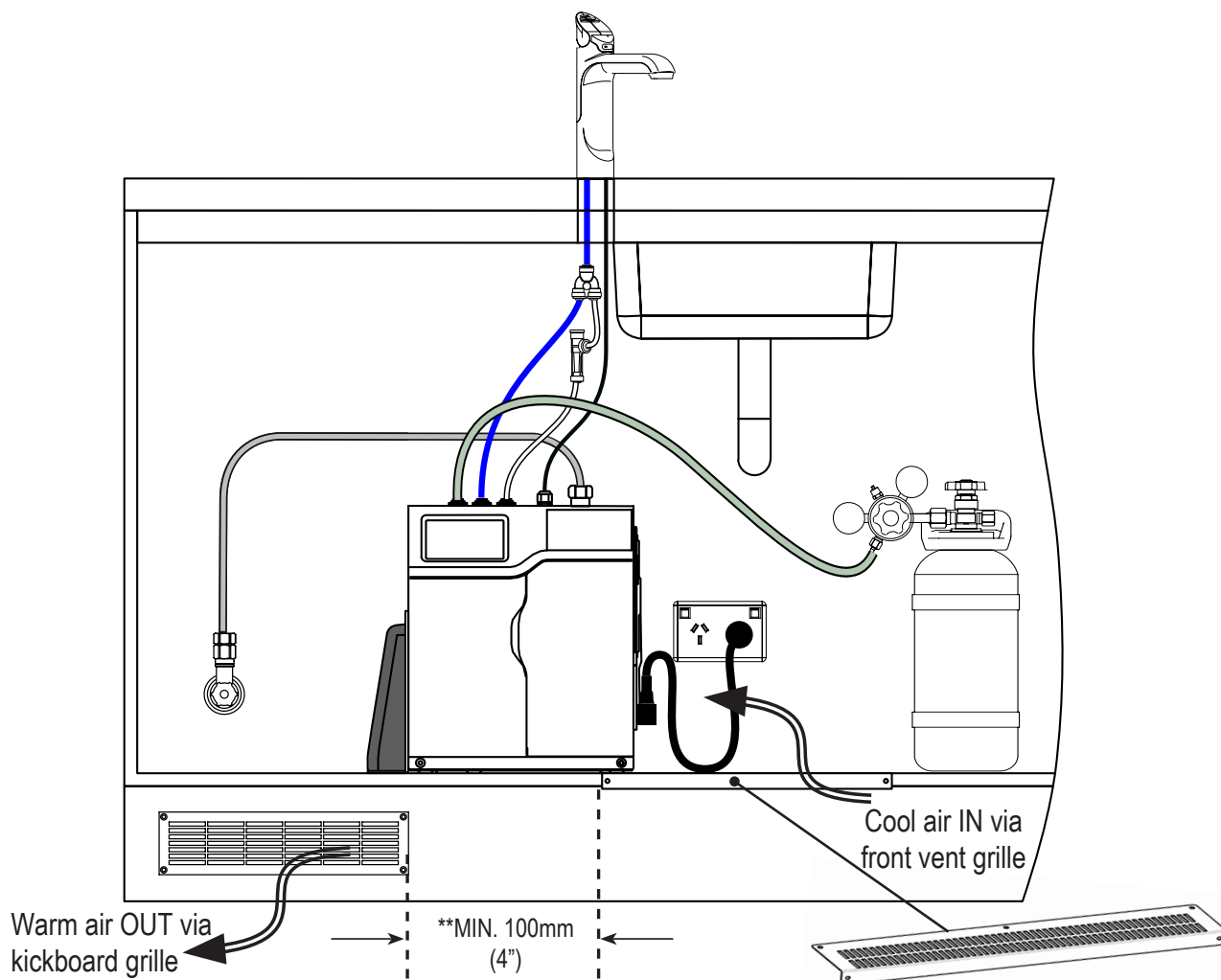


IMPORTANT: Allow a minimum clearance envelope of 50mm (2") either side, and 200mm (8") above the Command Center.

The vent duct and louver panels must be installed for all under floor and /or door vent systems, as instructed.

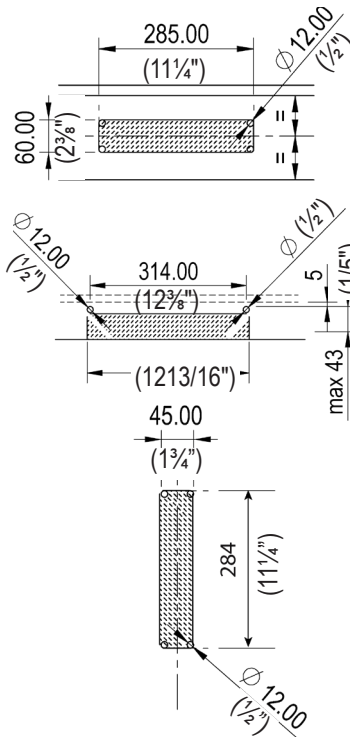
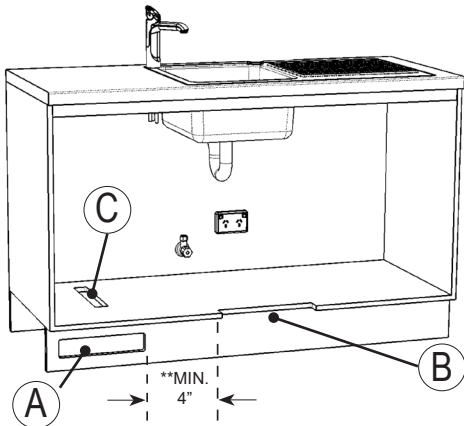
****Note:** Inlet and outlet vents should be separated by a minimum of 100mm (4"), to avoid hot air recirculation.

2.2 Recommended Installation Diagram



Ventilation

Cut-out details



A - Kickboard cut-out

1. Drill 4 pilot holes 12mm ($\frac{1}{2}$ ") dia in corners
2. Finish cut-out using a Jigsaw and Keyhole or Wall board saw

B - Cabinet floor cut-out

1. Drill two pilot holes 12mm ($\frac{1}{2}$ ") dia.
2. Finish cut-out using a Jigsaw

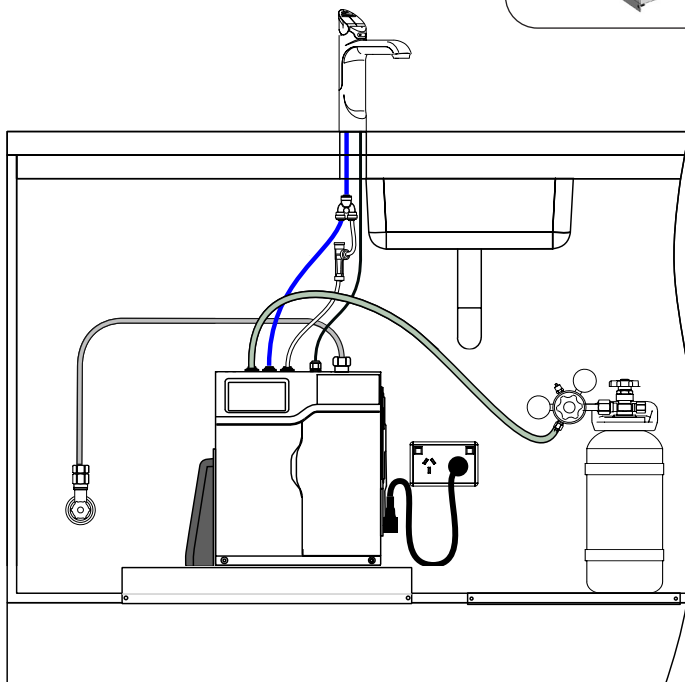
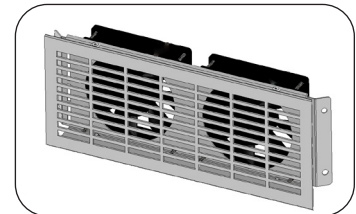
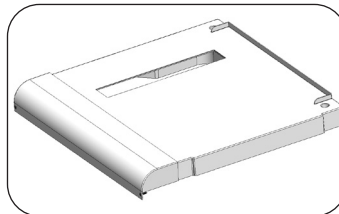
C - Cabinet floor cut-out

1. Drill 4 pilot holes 12mm ($\frac{1}{2}$ ") dia in corners
2. Finish cut-out using a Jigsaw and Keyhole or Wall board saw

2.3 Alternative Ventilation

If the kick board vent kit cannot be used then it is important to fit a HydroTap vent tray, to ensure heat dissipation. For high use applications, where the cabinet space temperature is near 35°C (95°F), or higher, an auxiliary fan kit may be fitted. Contact your local service centre for availability.

- Vent tray part no. 93541US (optional accessory)
- Dual exhaust fan kit, part no. 93156US (optional accessory)



Vent tray installation

Section 3

CO₂ Cylinder



STORAGE WARNING:

CO₂ cylinders must be installed in an open plan area or in an enclosed room, with a volume no less than 50 cubic metres (65 cubic yards) for each 2.6kg (6lb) of stored gas. 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 warning.

3.1 Secure the cylinder cradle

After removing all packing material, mark out the cradle location, and fit it on a suitable wall, within 1 yard of the Command Center. Make sure the gas bottle, regulator and cradle assembly can comfortably fit, with sufficient clearances, before securing the cradle inside the cabinet. Due to regulatory requirements the gas bottle must be stored securely and in an upright position. Secure the bottle with the hook-and-loop straps provided.

3.2 Connect the regulator:

After removing all packing material, fit the regulator to the gas bottle, as shown in the diagrams. Ensure the plastic seal is fitted securely inside the large chrome nut, before attaching to the gas bottle. If the plastic seal is not an easy fit over the spigot, soak it in hot water, before re-applying. Do not force the seal to fit. Turn the regulator OFF by rotating the regulator knob, all the way out, in an anti-clockwise direction.



NOTE: Two plastic seals are supplied with a new regulator. Only one is required, the other is supplied as a spare part.

3.3 Connect the gas hose:

Connect the braided gas hose to the top of the Command Center via the John Guest fitting marked 'Gas IN'. Then connect the hose to the threaded end of the regulator (do not lose the small sealing olive). When commissioning, first turn the gas ON by rotating the valve on top of the cylinder anti-clockwise. Then adjust the outlet pressure, by rotating the regulator knob in a clockwise direction, to 3.0±0.1 bar (39±1 psi) (green zone).



NOTE: The arrow should sit in the green zone of the regulator gauge; it should not fall in the red or yellow sections.

3.4 Test for gas leaks:

When commissioning, use soapy water to perform a leak test. Apply the soapy water to the two gas connections using a sponge or brush. 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 gas is turned off when tightening or refitting the leaking connection.

Fit the gas bottle into the cradle and secure with the hook-and-loop strap. Ensure the bottle is in an upright position.

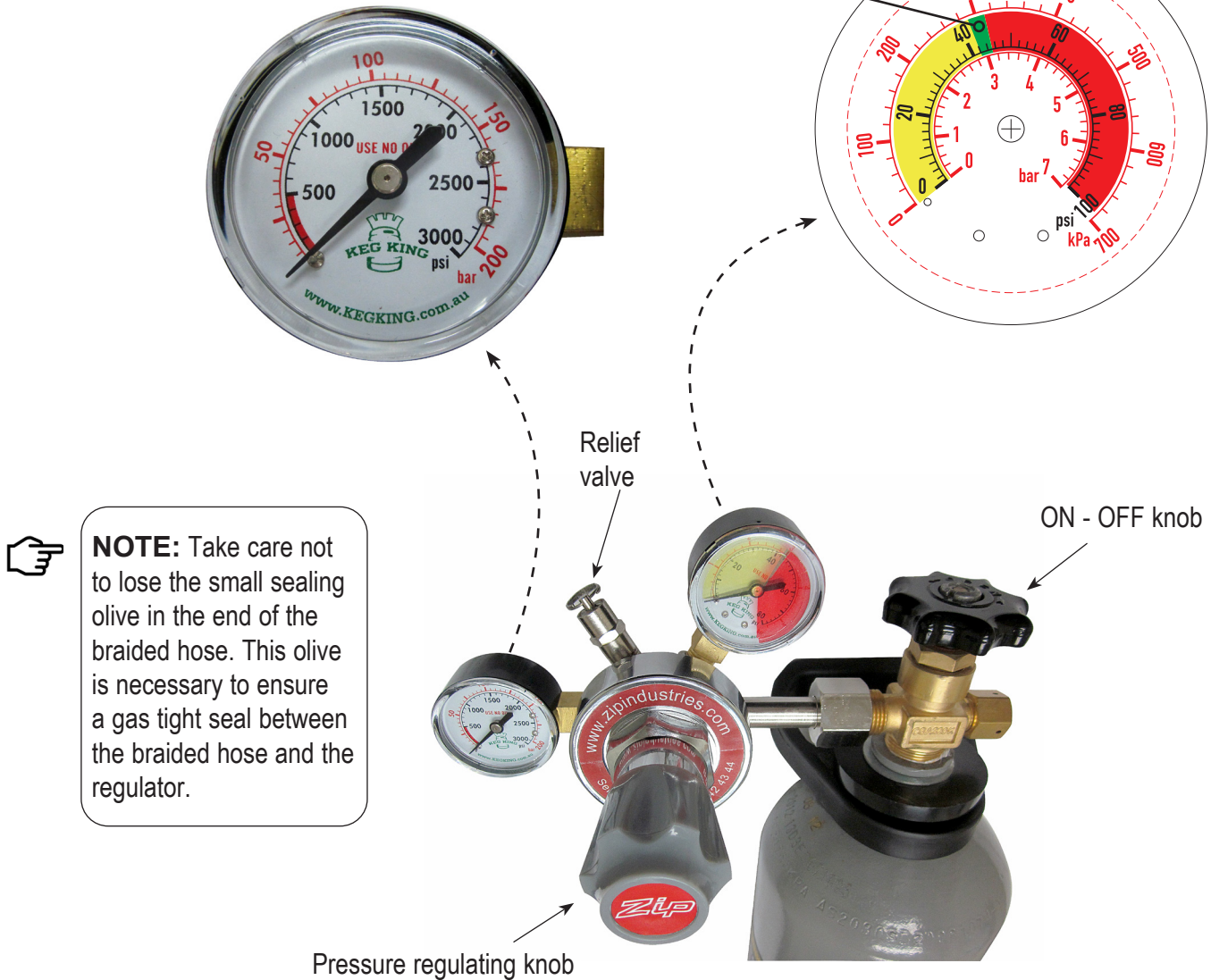


NOTE: Care must be taken when working with high pressure carbon dioxide, and in no cases should the normal operating pressure of 3.0±0.1 bar (39±1 psi) be exceeded.

CO₂ Regulator

This gauge shows the pressure in the bottle and indicates when the bottle is empty. Initial bottle pressure will be 35-40 bar (507-580 psi).

This gauge shows the adjustable limit (3.0 ± 0.1 bar, or 39 ± 1 psi) required for the HydroTap to function correctly



After replacing a bottle or after making a gas connection, perform a Leak Test:

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.

Stage 2:

1. Turn ON the gas.
2. Adjust the pressure to between 2.7-3.0 bar (39 - 43 psi).
3. Inspect the joint for leaks.
4. If any bubbles appear, the joint will need to be resealed.

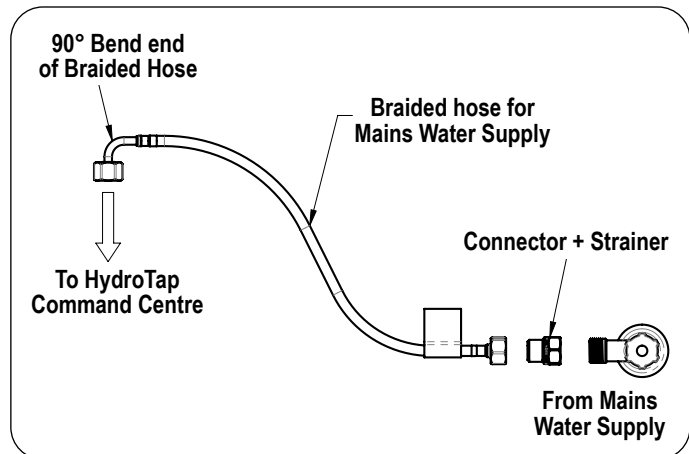


Section 4

Command Center Installation

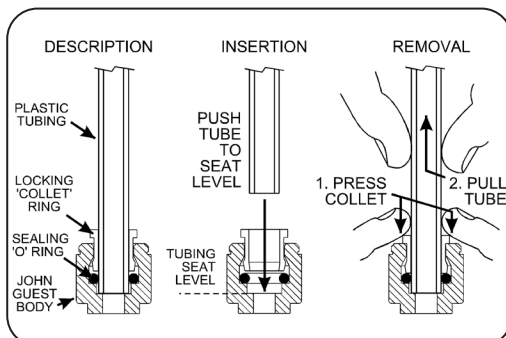
4.1 Hose and tube fitting

- Remove all caps from the top of the Command Center (except the mixer caps)
- Only remove the mixer caps if a mixer faucet is to be fitted.
- Fit the foam insulation to the Blue and to the White tubes after trimming them to length
- Install the mains water braided hoses to the Command Center before locating the unit in place.



NOTE: Do not overtighten

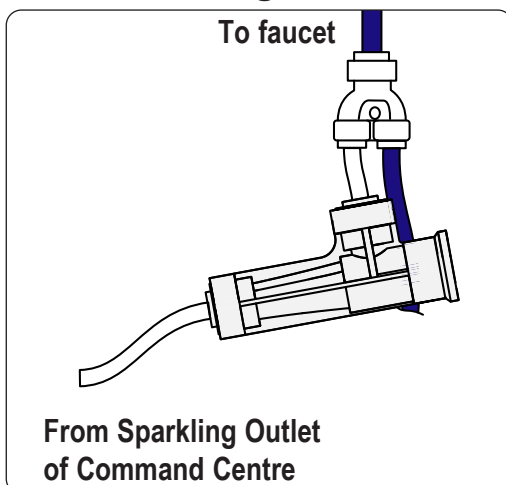
4.2 John Guest fittings (Insertion and removal)



Be careful when cutting the poly tube so that there are no rough edges and that the tube is not distorted.

1. Use a sharp knife to ensure the tube has a clean, straight edge. Do not cut at an angle.
2. Remove any swarf or unwanted material.
3. Push the tube into the John Guest fitting making sure all connections to the John Guest fittings are pushed in past the "O" ring to full depth, at least 15mm ($\frac{5}{8}$ ").
4. Check for a good joint by pulling back on the tube. If the tube comes out, of the fitting, repeat the above step.
5. To remove the tube, press the collet into the fitting and at the same time pull back on the tube.

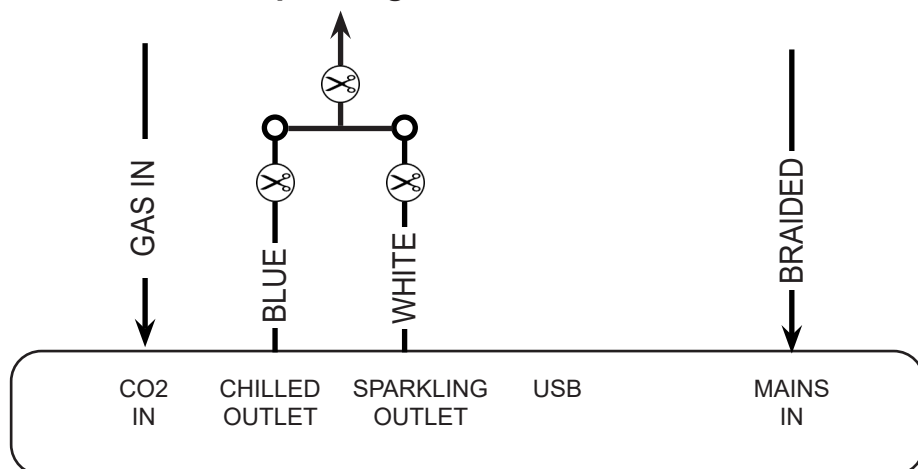
4.3 Installing carbonation valve



1. Connect the white tube for sparkling water from the faucet to the outlet of the carbonation valve.
2. Connect the white tube from the inlet of the carbonation valve to the Sparkling Outlet connection on top of the Command Center, as shown in Section 4.3.
3. See section 5.4 for carbonation valve flow rate adjustment.

Installation Instructions

4.3 Chilled Sparkling Model - CS 175



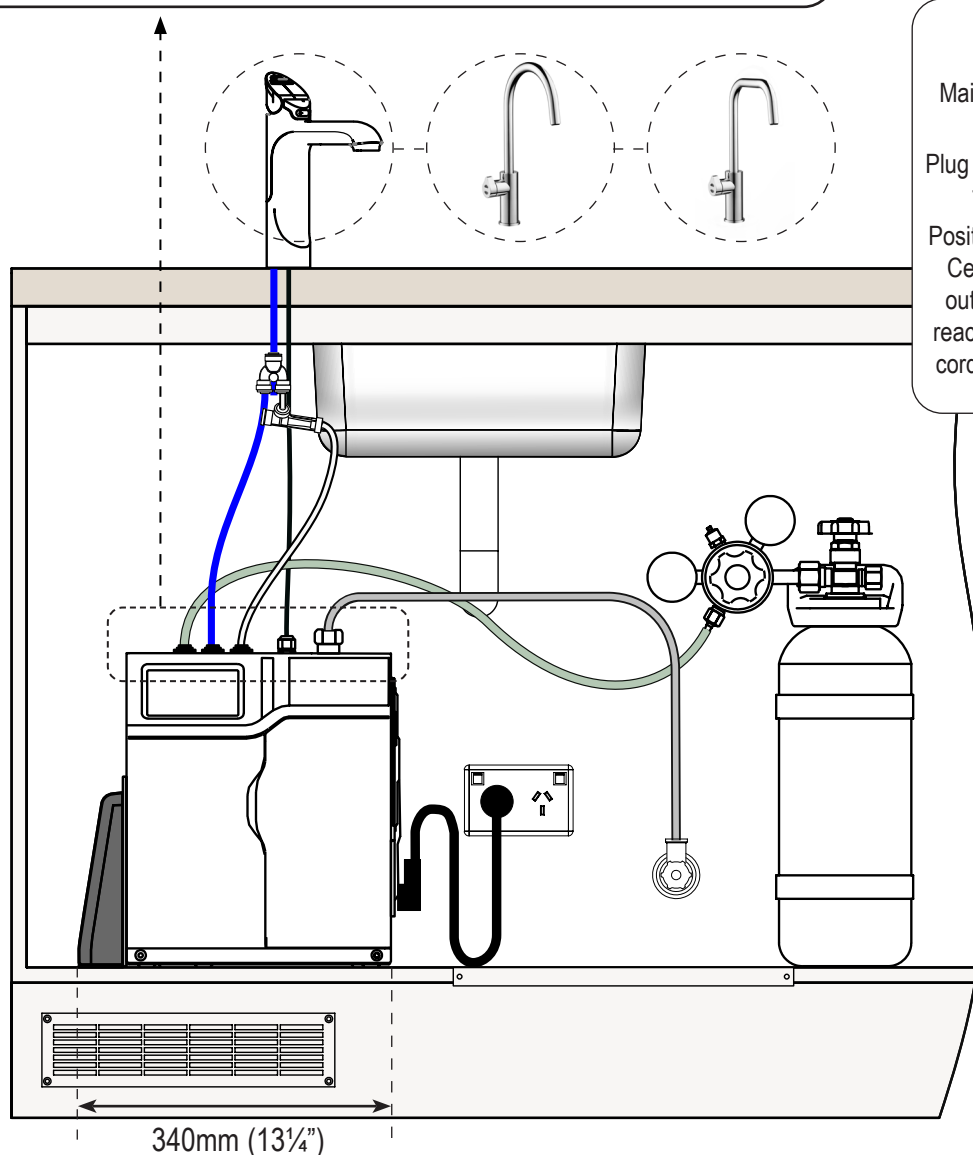
Note:

The hoses need to have a constant downward gradient to the HydroTap to allow all water to drain back into the tanks.



Note:

Mains hose length is 750mm (30")
 Plug and Cord length is 1800mm (70")
 Position the Command Center close to the outlet faucet, within reach of the hose and cord lengths supplied



NOTE: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened. Take time to consider hose lengths when determining the mounting positions for the options.

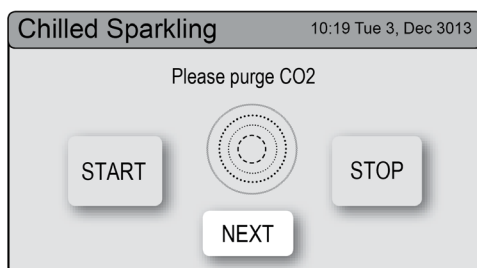
Section 5

Commissioning

The HydroTap is now ready to be commissioned.

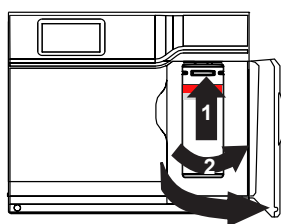
- Turn ON the water and gas and check for any leaks.
- Turn the power ON at the power outlet
- Familiarise yourself with the operation of the Faucet, in preparation for use (See User Guide)
- Follow the instructions below (and review Section C of the User Guide).
- Initially you will be prompted to select a language
- After commissioning, the system may be customised by selecting further options in Section G - Settings, within the User Guide.

5.1 - CO₂ Purge



1. Press the [START] button to commence the purging process.
2. Purge for 10 seconds and ensure all water has stopped flowing through the faucet. You will hear the CO₂ gas escaping from the faucet.
3. Press the [Stop] button.
4. Press [Next] for the filter flush screen

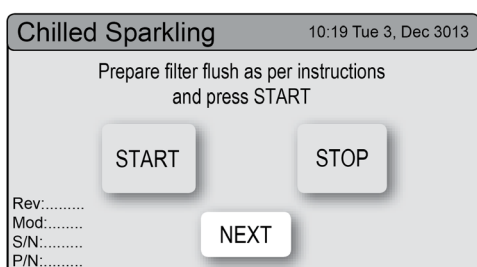
5.2 - Filter Flush



A new filter cartridge is provided (but NOT fitted), inside the filter door. Unpack the new filter cartridge and write today's date on the label. To install the cartridge, align the key tabs and insert upwards into the filter head. Turn the cartridge to the right until it locks in place.

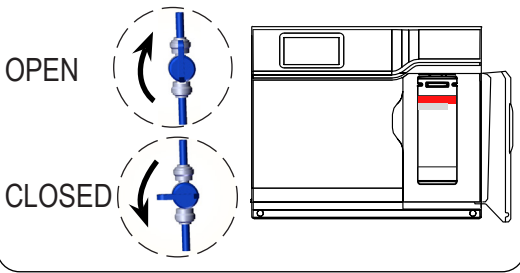
Have a 10 liter (2.6 gallon) bucket or similar container (not supplied) at the ready to hold a quantity of water that will be ejected while the Filter Flush Mode is in operation. Open the filter access door on the front of the HydroTap and the filter cartridge will be exposed. Located to the rear RHS of the cartridge is a flush line and the flush line stop cock. Place the valve end of the flush line into the bucket or container.

Note: You will need to Press the [Start] [Stop] buttons to start and stop the filter flush.



Commissioning

Stop cock operation



1. Turn the flush line stop cock ON (See diagram).
2. Press [Start] and allow at least 10 liters (2.6 gallons) of water to flush through the filter.
3. The product details will be displayed in the screen.
4. Once the filter flush is finished, Turn the stop cock OFF then press [Stop] to end filter flush mode.



NOTE: For any subsequent filter changes or any operational procedures, please refer to the HydroTap user guide, located inside the filter housing access door.

5.3 - Conditioning Procedure

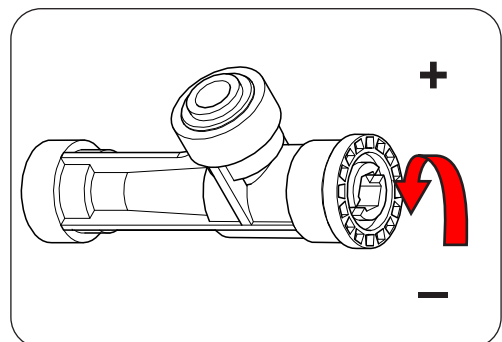
Zip HydroTap Command Centers are sanitized during manufacturing and require final flushing before normal use.

1. Turn off CO₂ gas at the regulator.
2. Dispense 10 liters (2.6 gallons) of chilled water from the chilled outlet of the HydroTap (equivalent to 4 complete tanks full of water).
3. If water bubbles or foams, repeat step 2 above.
4. Let filled tank stand for one hour at operating temperature.
5. After one hour, repeat step 2.
6. Dispense 2 liters (½ gallon) of sparkling water from the sparkling outlet. Repeat the 2 liters (½ gallon) dispense until the water is clear.
7. Turn on the CO₂ gas at the regulator. The HydroTap is ready for use.

5.4 - Carbonation Valve Flow Adjustment

1. After product commissioning and CO₂ purge, you are now ready to adjust the carbonation flow rate.
2. To adjust the flow rate, rotate the adjustment screw anti-clockwise to increase the flow and clockwise to decrease the flow.
3. To measure the flow rate you have set, use a measuring cup or jug and run the sparkling water for 15 seconds (the HydroTap has a default 15 seconds dispense time, which will help in your flow rate set up). Multiply the amount of water dispensed in that 15 seconds by 4 to get your flow rate in gallons per minute. 1.6 liters (0.4 gallons) per minute is the optimum flow rate.

Important – If you adjust the flow rate too high, you will empty the carbonation tank of water leaving only CO₂ to be dispensed from the faucet. This will result in inconsistent flow (spluttering).



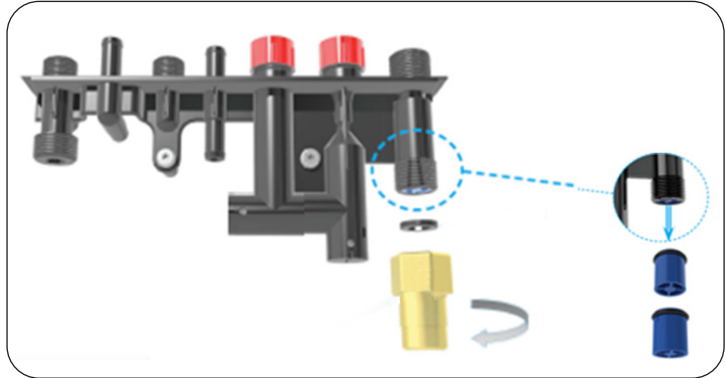
Warning - Take care NOT to use excessive force during adjustment of the valve.

5.5 - Backflow Prevention

All HydroTap models that have sparkling/carbonated water functionality include the following integral Backflow Prevention.

Main Water Inlet

The Dual Check Valve (DCV) on the Mains Water inlet connection is designed to ensure a uniform direction of flow throughout the HydroTap. This valve configuration eliminates any possible contamination of the mains water supply, caused by backflow or back siphonage and is the is a secondary safety feature in the case where the of the inlet safety solenoid. The DCV also maintains a constant pressure upstream of the inlet safety solenoid. There are two (2) operating principles:



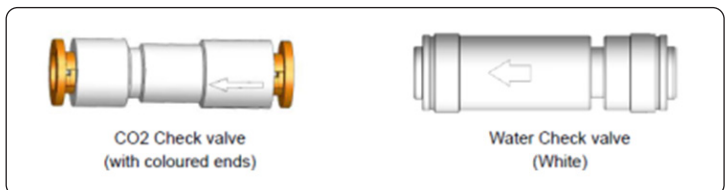
- Firstly, one check valve will still act, even if the other is jammed open;
- Secondly, the closure of one valve reduces the pressure differential across the other, allowing a more reliable seal and avoiding the possibility of minor leakage.



The HydroTap MUST NOT be operated without the Dual Check Valves in place.

Internal Carbonator

There are two (2) Check Valves on the internal Carbonator. The Check Valves ensure the flow of CO₂ gas and water is maintained in one direction, into the carbonator. These valves help to maintain the pressure needed to ensure the gas remains dissolved in the water while inside the carbonator. The Check Valves are designed to stop any backflow of gas and/or water out of the internal carbonator.



In addition to the HydroTap's integral Backflow prevention

Some authorities require additional Backflow Prevention to be installed to comply with the Local, State or Federal plumbing code requirements. Both the Universal Plumbing Code (UPC) and National Standard Plumbing Code (NSPC) require the use of an American Society of Sanitary Engineers (ASSE) 1022 backflow preventer on the supply to carbonators under UPC 603.5.12 and NSPC 10.5.8.

UPC: "Potable water supply to beverage dispensers, carbonated beverage dispensers, or coffee machines shall be protected by an air gap or a vented backflow preventer in accordance with ASSE 1022. For carbonated beverage dispensers, piping material installed downstream of the backflow preventer shall not be affected by carbon dioxide gas".

NSPC: "The water supply to a carbonated beverage dispenser shall be protected against backflow with an integral backflow preventer conforming to ASSE 1022 or an air gap. Carbonated beverage dispensers and carbonated beverage dispensing systems without an integral backflow preventer conforming to ASSE 1022 or an air gap shall have the water supply protected with double check valve and atmospheric vent conforming to ASSE 1022."

In order to comply with this requirement the Installer MUST install an ASSE 1022 approved backflow device on the water supply leading to the HydroTap. This will ensure compliance with the requirement to protect the potable water supply to the carbonated beverage dispenser.

Troubleshooting

System Fault Message	Possible Cause	Recommended Action
Power board fault	Electrical disruption	Check power supply and all fuses
Interface fault	Internal fault	Call Zip Service
Level board fault	Internal fault	Call Zip Service
Condenser screen blocked	Blocked Air filter	Remove blockage / Clean filter / check user guide
Water leak, Isolate mains	Water leak	Turn off mains water supply / Call for service
Compressor over-run	Compressor too Hot	Check ventilation
Water supply failed	No water	Check water supply is turned ON
Cold sensor Open	Internal fault	Call Zip Service
Cold sensor Closed	Internal fault	Call Zip Service
Flood sensor Open	Internal fault	Call Zip Service
Condenser sensor Closed	Internal fault	Check Ventilation / Call Zip Service
Condenser sensor Open	Internal fault	Check ventilation / Call Zip service
Compressor driver fault	No chilled water	Call Zip Service
Condenser overtemp.	Blocked air filter	Remove blockage / Clean filter / check user guide
A DC Pump is faulty	Internal fault	Call Zip Service
Comp Fuse/Driver Fault	Internal fault	Call Zip Service
Flash Mem corrupted	Internal fault	Call Zip Service
Flow Sensor Fault	Internal fault	Call Zip Service

Contact your local service provider or Zip's US distributor Culligan International Company on US Toll Free 1-833-233-2358 for assistance, service, spare parts or enquiries.

End of Life Disposal

In order to help preserve our environment we ask that you dispose of this product correctly. This product should not be treated as domestic waste, but should be taken to a dedicated recycling center for electrical and electronic equipment. Immediately prior to scrapping, cut off the power cable. Please contact your local city council for collection center details.

Performance Data Sheet

Performance Data Sheet Zip Hydrotap CS175 – Classic XX*

Manufacturer: Zip Water (Aust) Pty. Ltd
67 Allingham Street
Condell Park NSW 2200
Australia

Distributed in US and Canada by: Culligan International Company
Call Zip's US distributor Culligan International Company on US Toll Free
1-833-233-2358 for assistance, service, spare parts or enquiries.

Testing Conditions and Results:

Flow Rate: 1.5 gpm
Pressure: 60 psig $\pm$ 3
Temperature: 68 $\pm$ 5 °F
Capacity: 1,800 gallons
pH: 7.5 $\pm$ 0.5

Operating Conditions

Minimum Working Pressure: 37 psi (2.60 kg/cm²)
Maximum Working Pressure: 100 psi (7.03 kg/cm²)
Electrical Characteristics: 230V/50 Hz
Operating TDS: 50 ppm – 150 ppm
Minimum Operating Temperature: 41 °F (5 °C)
Maximum Operating Temperature: 95 °F (35 °C)
Replacement Cartridge: 1.5Z-LS (Culligan P/N 01034277)

Substance Reduction

Cartridges manufactured for Zip by Pentair Everpure, EPA Est. No. 002623-IL-002.
Replacement cartridges can be purchased from your local Culligan dealer, Zip dealer or other Zip approved distributors.

While testing was performed under standard laboratory conditions, actual performance may vary.
This system, used in conjunction with the above-mentioned filter cartridge, has been tested and certified by WQA according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.
The system, used in conjunction with the above-mentioned filter cartridge, has been certified by IAPMO R&T according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.
The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 42 and NSF/ANSI 53.

Substance	Average Influent Challenge Concentration	Max. Permissible Product Requirements	Reduction Requirement	Average Reduction
NSF/ANSI 42 – Aesthetic Effects				
Bacteriostatic Effects	Unit passes NSF/ANSI 42 for Bacteriostatic effects.**			
Chlorine, Taste and Odor	2.0 mg/L $\pm$ 10%		$\geq$ 50%	97.4%
Nominal Particulate Reduction, Class I ($\geq$ 0.5 μ m to $<$ 1 μ m)	10,000/mL		$\geq$ 85%	99.3%
NSF/ANSI 53 – Health Effects				
Cyst	Minimum 50,000/L		$\geq$ 99.95%	99.99%
Lead, pH 8.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	98.9%
Lead, pH 6.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	99.3%

*Available in a range of premium metallic finishes. XX refers to the specific finish of the faucet.

**As verified and substantiated by test data

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. The term 'bacteriostatic' means that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that the water leaving the system is safer to drink than the water entering the system.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

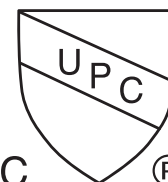
See the installation manual for installation, maintenance requirements and warranty.

Performance Indicator: Filter Light on LED faucet. Full text notification on LCD display.

To maintain product certification and ensure uniform performance, the product is retested on a consistent basis.



C US



Name & Signature: Buyer

Date

Name & Signature: Seller

Date

Performance Data Sheet

Performance Data Sheet Zip Hydrotap CS175 – ARC XX*

Manufacturer: Zip Water (Aust) Pty. Ltd
67 Allingham Street
Condell Park NSW 2200
Australia

Distributed in US and Canada by: Culligan International Company

Call Zip's US distributor Culligan International Company on US Toll Free
1-833-233-2358 for assistance, service, spare parts or enquiries.

Testing Conditions and Results:

Flow Rate: 1.5 gpm

Pressure: 60 psig $\pm$ 3

Temperature: 68 $\pm$ 5 °F

Capacity: 1,800 gallons

pH: 7.5 $\pm$ 0.5

Operating Conditions

Minimum Working Pressure: 37 psi (2.60 kg/cm²)

Maximum Working Pressure: 100 psi (7.03 kg/cm²)

Electrical Characteristics: 230V/50 Hz

Operating TDS: 50 ppm – 150 ppm

Minimum Operating Temperature: 41 °F (5 °C)

Maximum Operating Temperature: 95 °F (35 °C)

Replacement Cartridge: 1.5Z-LS (Culligan P/N 01034277)

Cartridges manufactured for Zip by Pentair Everpure, EPA Est. No. 002623-IL-002.

Replacement cartridges can be purchased from your local Culligan dealer, Zip dealer or other Zip approved distributors.

Substance Reduction

While testing was performed under standard laboratory conditions, actual performance may vary.

This system, used in conjunction with the above-mentioned filter cartridge, has been tested and certified by WQA according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.

The system, used in conjunction with the above-mentioned filter cartridge, has been certified by IAPMO R&T according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 42 and NSF/ANSI 53.

Substance	Average Influent Challenge Concentration	Max. Permissible Product Requirements	Reduction Requirement	Average Reduction
NSF/ANSI 42 – Aesthetic Effects				
Bacteriostatic Effects	Unit passes NSF/ANSI 42 for Bacteriostatic effects.**			
Chlorine, Taste and Odor	2.0 mg/L $\pm$ 10%		$\geq$ 50%	97.4%
Nominal Particulate Reduction, Class I ($\geq$ 0.5 μ m to $<$ 1 μ m)	10,000/mL		$\geq$ 85%	99.3%
NSF/ANSI 53 – Health Effects				
Cyst	Minimum 50,000/L		$\geq$ 99.95%	99.99%
Lead, pH 8.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	98.9%
Lead, pH 6.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	99.3%

*Available in a range of premium metallic finishes. XX refers to the specific finish of the faucet.

**As verified and substantiated by test data

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. The term 'bacteriostatic' means that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that the water leaving the system is safer to drink than the water entering the system.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

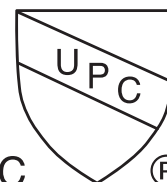
See the installation manual for installation, maintenance requirements and warranty.

Performance Indicator: Filter Light on LED faucet. Full text notification on LCD display.

To maintain product certification and ensure uniform performance, the product is retested on a consistent basis.



C US



Name & Signature: Buyer

Date

Name & Signature: Seller

Date

Performance Data Sheet

Performance Data Sheet Zip Hydrotap CS175 – CUBE XX*

Manufacturer: Zip Water (Aust) Pty. Ltd
67 Allingham Street
Condell Park NSW 2200
Australia

Distributed in US and Canada by: Culligan International Company

Call Zip's US distributor Culligan International Company on US Toll Free
1-833-233-2358 for assistance, service, spare parts or enquiries.

Testing Conditions and Results:

Flow Rate: 1.5 gpm

Pressure: 60 psig $\pm$ 3

Temperature: 68 $\pm$ 5 °F

Capacity: 1,800 gallons

pH: 7.5 $\pm$ 0.5

Operating Conditions

Minimum Working Pressure: 37 psi (2.60 kg/cm²)

Maximum Working Pressure: 100 psi (7.03 kg/cm²)

Electrical Characteristics: 230V/50 Hz

Operating TDS: 50 ppm – 150 ppm

Minimum Operating Temperature: 41 °F (5 °C)

Maximum Operating Temperature: 95 °F (35 °C)

Replacement Cartridge: 1.5Z-LS (Culligan P/N 01034277)

Substance Reduction

Cartridges manufactured for Zip by Pentair Everpure, EPA Est. No. 002623-IL-002.

Replacement cartridges can be purchased from your local Culligan dealer, Zip dealer or other Zip approved distributors.

While testing was performed under standard laboratory conditions, actual performance may vary.

This system, used in conjunction with the above-mentioned filter cartridge, has been tested and certified by WQA according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.

The system, used in conjunction with the above-mentioned filter cartridge, has been certified by IAPMO R&T according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 42 and NSF/ANSI 53.

Substance	Average Influent Challenge Concentration	Max. Permissible Product Requirements	Reduction Requirement	Average Reduction
NSF/ANSI 42 – Aesthetic Effects				
Bacteriostatic Effects	Unit passes NSF/ANSI 42 for Bacteriostatic effects.**			
Chlorine, Taste and Odor	2.0 mg/L $\pm$ 10%		$\geq$ 50%	97.4%
Nominal Particulate Reduction, Class I ($\geq$ 0.5 μ m to $<$ 1 μ m)	10,000/mL		$\geq$ 85%	99.3%
NSF/ANSI 53 – Health Effects				
Cyst	Minimum 50,000/L		$\geq$ 99.95%	99.99%
Lead, pH 8.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	98.9%
Lead, pH 6.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	99.3%

*Available in a range of premium metallic finishes. XX refers to the specific finish of the faucet.

**As verified and substantiated by test data

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. The term 'bacteriostatic' means that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that the water leaving the system is safer to drink than the water entering the system.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

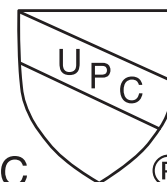
See the installation manual for installation, maintenance requirements and warranty.

Performance Indicator: Filter Light on LED faucet. Full text notification on LCD display.

To maintain product certification and ensure uniform performance, the product is retested on a consistent basis.



C US



C ®

Name & Signature: Buyer

Date

Name & Signature: Seller

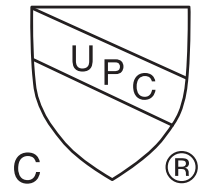
Date

Performance Data Sheet

Performance Data Sheet Zip Hydrotap CS175 – Wave XX*

Manufacturer: Zip Water (Aust) Pty. Ltd

67 Allingham Street
Condell Park NSW 2200
Australia



Distributed in US and Canada by: Culligan International Company

Call Zip's US distributor Culligan International Company on US Toll Free
1-833-233-2358 for assistance, service, spare parts or enquiries.

Testing Conditions and Results:

Flow Rate: 1.5 gpm
Pressure: 60 psig $\pm$ 3
Temperature: 68 $\pm$ 5 °F
Capacity: 1,800 gallons
pH: 7.5 $\pm$ 0.5

Operating Conditions

Minimum Working Pressure: 37 psi (2.60 kg/cm²) Minimum Operating Temperature: 41 °F (5 °C)
Maximum Working Pressure: 100 psi (7.03 kg/cm²) Maximum Operating Temperature: 95 °F (35 °C)
Electrical Characteristics: 230V/50 Hz Replacement Cartridge: 1.5Z-LS (Culligan P/N 01034277)
Operating TDS: 50 ppm – 150 ppm

Cartridges manufactured for Zip by Pentair Everpure, **EPA Est. No. 002623-IL-002**.
Replacement cartridges can be purchased from your local Culligan dealer, Zip dealer or other Zip approved distributors.

Substance Reduction

While testing was performed under standard laboratory conditions, actual performance may vary.
This system, used in conjunction with the above-mentioned filter cartridge, has been tested according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.
The system, used in conjunction with the above-mentioned filter cartridge, has been certified by IAPMO R&T according to NSF/ANSI 42 and NSF/ANSI 53 for reduction of the substances listed below.
The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 42 and NSF/ANSI 53.

Substance	Average Influent Challenge Concentration	Max. Permissible Product Requirements	Reduction Requirement	Average Reduction
NSF/ANSI 42 – Aesthetic Effects				
Bacteriostatic Effects	Unit passes NSF/ANSI 42 for Bacteriostatic effects.**			
Chlorine, Taste and Odor	2.0 mg/L $\pm$ 10%		$\geq$ 50%	97.4%
Nominal Particulate Reduction, Class I ($\geq$ 0.5 μ m to $<$ 1 μ m)	10,000/mL		$\geq$ 85%	99.3%
NSF/ANSI 53 – Health Effects				
Cyst	Minimum 50,000/L		$\geq$ 99.95%	99.99%
Lead, pH 8.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	98.9%
Lead, pH 6.5	0.15 mg/L $\pm$ 10%	0.005 mg/L	$\geq$ 96.67%	99.3%

*Available in a range of premium metallic finishes. XX refers to the specific finish of the faucet.

**As verified and substantiated by test data

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. The term 'bacteriostatic' means that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that the water leaving the system is safer to drink than the water entering the system.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

See the installation manual for installation, maintenance requirements and warranty.

Performance Indicator: Filter Light on LED faucet. Full text notification on LCD display.

To maintain product certification and ensure uniform performance, the product is retested on a consistent basis.

Name & Signature: Buyer

Date

Name & Signature: Seller

Date

Warranty

Limited Warranty- Zip Products

What Does This Warranty Cover?

Culligan International Company, d/b/a Zip Water, (hereinafter "Zip"), warrants to the original purchaser (the "Zip Customer") of the Zip product (the "Zip Product"), so long as the Zip Customer purchased the Zip Product from an authorized Zip dealer ("Authorized Zip Dealer"), that this Zip Product, including any of its original accessories, is free of defects in material and workmanship, subject to the terms and conditions set forth herein. This Limited Warranty covers parts and labor, except as set forth in this Limited Warranty

Where Is This Limited Warranty Valid?

This Limited Warranty is only applicable if the Zip Product was installed in the United States of America ("USA").

What Is Required to Request Warranty Service?

All three of the following are required before warranty service will be performed: (1) Verification of the purchase date; (2) Verification that the Zip Product was purchased from an Authorized Zip Dealer; and (3) Verification that the Zip Product at issue was installed by an authorized Zip service technician or an approved Zip service provider.

When Does the Limited Warranty Expire?

One (1) Year Limited Warranty - Any warranty claims for Zip Products must be received by Zip within 15 months from the date of purchase or within 12 months from date of installation. This warranty guarantees that if any part should fail within 15 months from date of purchase or within 12 months from the date of installation, except as detailed below, Zip or its authorized service provider will repair or replace the Zip Product. Determination to repair or replace will be in Zip's sole discretion. Repair or replacement services will be at no cost to the Zip Customer, provided that:

- a) the Zip Product is installed and used strictly in accordance with the instructions supplied; and
- b) all service under the One (1) Year Limited Warranty is carried out only by an authorized Zip service technician or an approved Zip service provider.

This warranty includes both parts and labor.

Extended Two (2) Year Limited Warranty – In addition to the One (1) year Limited Warranty described above, the Zip Customer can opt to extend the Zip Product warranty by one (1) year, making the total Limited Warranty period two (2) years. In order to extend the warranty to two (2) years, the Zip Customer must register their product with Zip. This extended two (2) year Limited Warranty is subject to the same conditions as provided above in clauses a) and b).

How To Register?

Zip Products must be registered online at <https://www.us.zipwater.com>

What If Repair Is Impossible?

If Zip determines that the warranted repair of any Zip Product is impossible, the Zip Product shall, at Zip's discretion, either be replaced or refunded.

What Is Not Covered by This Limited Warranty?

This Limited Warranty does not cover:

- Damage or defects caused by, or resulting from, repairs, service, conversion or alterations to the Zip Product or any of its parts and accessories which have been performed by service centers or repairmen not authorized by Zip; damage or defects caused by negligence, improper installation (when not installed by an authorized Zip service provider), accident, abuse, misuse, power interruptions, power surges, unsuitable water conditions, floods, natural disasters, or force majeure; or improper maintenance of the Zip Product or its parts or accessories.
- Ordinary wear and tear.

Warranty

- Consumable items such as water filter cartridges or CO2 cylinders.
- Zip Products covered by third party "Extended Warranties", which are sold separately by dealers, distributors or other third parties.
- Freight or shipping charges for sending a Zip Product to a Zip Repair Center.
- Products installed in cabinetry and other types of built-in applications that are not accessible to the service technician. We are not responsible for the dismantling or reinstallation of fixed infrastructure when removing or returning repaired or replaced Zip Product(s) into a custom installation.

Exclusion of Other Warranties

Any express or implied warranties with respect to the Zip Product are limited in their duration to the term of the Limited Warranty provided herein, including without limitation any warranty of merchantability or fitness for a particular purpose.

Limitation of Liability for Special, Incidental, Consequential Or Punitive Damages

ZIP SPECIFICALLY DISCLAIMS ANY AND ALL LIABILITY, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY AND ALL SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY LOSS OR DAMAGE, INCLUDING AS A RESULT OF ANY DEFECT IN MATERIALS OR WORKMANSHIP (INCLUDING LOSS OR DAMAGE TO PROPERTY, PERSONAL INJURY OR DEATH), WHETHER BASED ON BREACH OF CONTRACT, TORT, STRICT OR PRODUCT LIABILITY, OR ANY OTHER LEGAL THEORY.

Dispute Resolution

If the Zip Customer is not satisfied with the warranty service, he or she must submit a claim in writing to Zip's Dispute Settlement Representative at Culligan International Company, d/b/a Zip Water, 9399 W Higgins Rd, Rosemont, IL 60018. The written notice must include the model and serial number of the Zip Product, the Authorized Zip Dealer (or seller) from which the Zip Product was purchased, the Authorized Zip Servicer Provider who performed the warranty service, the purchase date, a detailed description of the problem and the address and phone number at which the Zip Customer can be reached. Zip is committed to review each such notice promptly and thoroughly and to respond to the Zip Customer in order to settle such dispute. Any decision is not binding. Any controversy or claim arising out of Zip Customer's purchase of the Zip Product that cannot be settled amicably shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration Rules. The arbitration hearing shall take place in Chicago, IL before a single arbitrator. Judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. If Zip prevails, Zip shall be entitled to reimbursement of all costs and expenses, including attorney's fees, from the Zip Customer.

How to Obtain Warranty Service for The Zip Product?

If during the relevant warranty period the Zip Customer finds the Zip Product to be defective in material or workmanship and the failure is promptly and timely reported to Zip in accordance with this Limited Warranty, an authorized Zip service agent shall be dispatched to determine whether the Zip Product is defective. If the authorized Zip service agent determines in his/her sole discretion that the Zip Product is (i) defective and (ii) covered by this Limited Warranty, the Zip service agent will either repair (if possible) or make arrangements for the repair of the Zip Product at no cost to you. This will include parts and labor. Zip reserves the right to charge for exceptional shipping or transportation costs (e.g., ferries, plane trips or excess mileage) as appropriate.

For service for all products under this Limited Warranty, or for product information, please contact Zip Service at service@us.zipwater.com or by calling 1-833-233-2358

Effective Date: July 1, 2018

Culligan International Company d/b/a Zip Water

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Notes



Manufactured by: Zip Water (Aust) Pty Ltd
67 Allingham Street
Condell Park NSW 2200
Australia

Distributed in US and Canada by: Culligan International Company
9399 West Higgins Road, Suite 1100
Rosemont, IL 60018
www.us.zipwater.com

Call US Toll Free 1-833-233-2358 for assistance, service, spare parts or enquiries.

As Zip policy is one of continuous product improvement, changes to specifications may be made without prior notice. Images in this booklet have been modified and may not be true representations of the finished goods.

The terms “Zip” and “HydroTap” are registered trade marks of Zip Water (Aust) Pty Ltd.

CS175 – Classic XX, CS175 – ARC XX and CS175 – CUBE XX have been tested and certified by WQA against NSF/ANSI Standard 372 for low lead requirement, and against NSF/ANSI Standard 42 and NSF/ANSI Standard 53. This will deliver the required bacteriostatic effect and the reduction of aesthetic chlorine, taste, odor, nominal particulate Class I ($\geq 0.5 \mu\text{m}$ to $< 1 \mu\text{m}$), cyst and lead as verified and substantiated by test data. See Performance Data Sheets for specific performance claims. Certified performance claims are only valid when filter cartridge 1.5Z-LS (Culligan Part Number 01034277) is used.

CS175 - Classic XX, CS175 - ARC XX, CS175 - CUBE XX, and CS175 - Wave XX have been certified by IAPMO R&T against NSF/ANSI Standard 372 for low lead requirement, NSF/ANSI Standard 42, NSF/ANSI Standard 53, CSA B483.1, and ASSE 1087. This will deliver the required bacteriostatic effect and the reduction of aesthetic chlorine, taste, odor, nominal particulate Class I ($\geq 0.5 \mu\text{m}$ to $< 1 \mu\text{m}$), cyst and lead as verified and substantiated by test data. See Performance Data Sheets for specific performance claims. Certified performance claims are only valid when filter cartridge 1.5Z-LS (Culligan Part Number 01034277) is used.



C US

