Quick Start Installation Guide

Zenith HydroTap G5

Command Centre
Chilled, Chilled/Sparkling models

AFFIX PRODUCT LABEL HERE

Visit our website to download the manuals

Table of contents

SECTION 1: Using these instructions

Before you start

This document is a Quick Start Installation Guide.
For further details on installing and operating your HydroTap download & read the Command Centre installation and user instructions , which can be found online at:
zenithwater.co.nz

Read and use the instructions supplied with individual kit components for a safe installation.

Explanation of symbols

Read the instructions

WARNING

Danger electric shock

Highly Flammable

CO_2 Gas WARNING

Compliance

In NZ/Australia electrical installation must comply with AS/NZS3000.

In NZ/Australia plumbing installation must comply with AS/NZS3500.

In NZ/Australia For residential chilled models, all refrigeration must comply with AS/NZS 60335.2.24.

In the UK the system must be installed in accordance with water supply byelaws, current IEE regulations and local authority byelaws.

Safety

This appliance is not intended for use by children under 8 years or persons (including children under 8 years) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the 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.

Refrigerant

The Zenith HydroTap Command Centre range uses either HIGHLY FLAMMABLE R290, R600a or R134A refrigerant under pressure.

Check the rating plate or contact Zenith before starting work.

Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration technician.

Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

CO_2

- Keep out of reach of children.
- Use according to MSDS (Material Safety Data Sheet).
- Pressurised container. Contains gas under pressure,may explode if heated.
- Protect from sunlight.

- Do not expose to temperatures exceeding 50˚C.
- Do not expose to naked flame or any incandescent material.
- Do not pierce or burn, even after use. Avoid shock.
- High concentration of gas may cause asphyxiation.
- Use only in an upright position.
- The cylinder must be used with the supplied pressure regulator.
- The gas cylinder must be installed in an open plan area, or in an enclosed room with a volume no less than 20m³ per 1200g cylinder, or 50m³ per 2640g cylinder.
- If more than 1 gas cylinder containing CO_2 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.
- Refer to the gas cylinder and MSDS sheet for a complete list of warnings downloadable from: zenithwater.co.nz.

Qualifications

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.

Lifting

Take care when lifting. The Command Centre may exceed safe lifting limits. If you feel this is beyond your personal capabilities, please seek assistance with the lift. The weight of the Command Centre is marked on the packaging. Do not lift the Command Centre by the front cover or any of its connections.

Airflow

The Zenith HydroTap G5 operates within the ambient temperature range 5ºC - 35ºC. Proper air circulation must be provided. The system will operate satisfactorily only if the recommended air gaps are provided. The vent kit supplied must be fitted.

Frost protection

If the HydroTap G5 is located where the ambient air temperature could fall below 5ºC when the system is not in use, do not turn off the Command Centre electrically.

SECTION 3: WARNINGS & REGULATORY INFORMATION

- The Zenith HydroTap must be earthed, earthing is provided via the supplied power cord. The resistance of the earth connection to each exposed metal part must be less than 1Ω.
  Use the power cable supplied. It is the responsibility of the installer to ensure the power point is earthed.
- All installation and service work must be completed by trained and suitably qualified tradespeople. Faulty operation due to unqualified persons working on this product, may void warranty coverage.
- As the installer, it is your responsibility to supply (if necessary) and install all valves as required by local regulations and relevant standards.
- The HydroTap is rated for 220-240V 50Hz AC operation.
- Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.
- Connect only to a potable (wholesome cat1) mains water supply.
- Never locate the system near, or clean with water jets.
- Do not expose the Zenith HydroTap to the elements of nature.
- Use of tools can be hazardous. Assess the risks before you start.
- A pressure limiting valve must be fitted for mains water pressures above the maximum limits stated.
- A clearance envelope around all Command Centres must be provided to allow adequate ventilation for the safe and effective use of the HydroTap system.
- The vent tray, if provided, must be fitted. It provides a safe exhaust for refrigerant gas in the unlikely event of a leak.
- Valves and fittings must be sealed appropriately with PTFE tape.
- Always flush new filter before use.

SECTION 3: WARNINGS & REGULATORY INFORMATION

- Do not over tighten plumbing and hose connections.
- Braided hoses supplied cannot be lengthened.
- Be aware of the risks of hazards which could cause harm when handling compressed CO_2. Assess the risks before starting the installation.
- Do not proceed with a CO_2 cylinder change if the seals are damaged. Take care not to cross thread the regulator, a cross threaded regulator poses a potential hazard.
- Care must be taken when working with high pressure carbon dioxide, and in no case should the normal operating pressure of 3.0 bar be exceeded.
- The power cord and general power outlet must be in a safe and accessible position after installation. When positioning the appliance, ensure the power supply cord is not trapped or damaged. If the power supply cord is damaged it must be replaced by a Zenith service provider or a qualified electrician.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- For safe operation, the HydroTap is designed to be installed, commissioned and used within 48 hours. Should the HydroTap not be required for an extended period of time (72 hours or more), do not fill and commission the HydroTap until ready for first use.
- For water taste and quality reasons, following any non-use period of more than 72 hours, Zenith recommends to perform a system flush. Failure to flush the system may affect water quality.

SECTION 4: Technical data

Technical data

Model	Power rating kW	Dimensions W x D x H (mm)	Weight (kg)
CS100	0.37	330 (500)# x 477 x 333	36.5
C100	0.34	330 (500)# x 470 x 333	24.2
C40	0.16	330 x 470 x 333	24.2
CS Home	0.18	280 x 406 x 333	30
C Home	0.17	280 x 406 x 333	21

including vent tray

Electricity supply requirements

220-240V 50Hz AC (for power requirement see table above).

Required
1x 220 - 240V AC 10A socket

Water supply pressure requirements

Component	Min - Max pressure, kPA (bar)
	NZ/Australia
HydroTap	170 (1.7) - 700 (7.0)
Sparkling HydroTap	250 (2.5) - 700 (7.0)

A pressure limiting valve must be fitted for mains water pressures above the maximum limits stated above in accordance with local plumbing regulations. Note: All models (excluding UK) have an internal pressure limiting device to reduce the maximum mains regulated pressure (700kPa in NZ/Australia), protecting the system against pressure surges above 500kPa.

Water supply connection

1/2" BSP (G1/2).

SECTION 5: Parts supplied

Parts supplied with the HydroTap	Chilled	Chilled & Sparkling
Tap		
HydroTap tap	✓	✓
HydroTap pipes, tubes hoses and fittings	✓	✓
Separate Mains mixer Tap	Optional	Optional
Separate Mains mixer Tap fittings	Optional	Optional
Separate Mains mixer Tap instructions	Optional	Optional
Command Centre		
Command Centre	✓	✓
Mains electrical supply cable	✓	✓
Water supply inlet hose	✓	✓
Water supply inlet adaptor and strainer	✓	✓
Ventilation kit (inc. vent tray for C100, CS100)	✓	✓
Vent kit instructions	✓	✓
Water block kit	(UK only)	(UK only)
CO_2		
CO_2 cylinder	×	✓
CO_2 regulator	×	✓
CO_2 regulator adaptor*	×	✓
CO_2 hose & instructions	×	✓
Filters		
Water filter & instructions	✓	✓
Font		
Font kit	Optional	Optional

* supplied with 1.2kg cylinder / adjustable regulator combination.

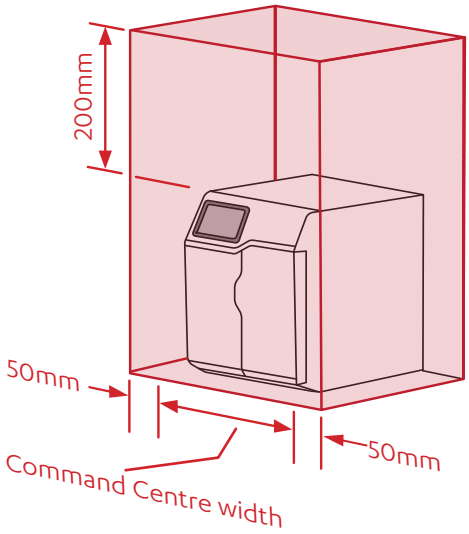
Note: Mains water isolation valve is not supplied with the kit.
Contact Zenith for the full range of consumables and accessories.

SECTION 6: Set up the ventilation

Use of tools can be hazardous. Assess the risks before you start.

Use instructions supplied with individual kit parts.

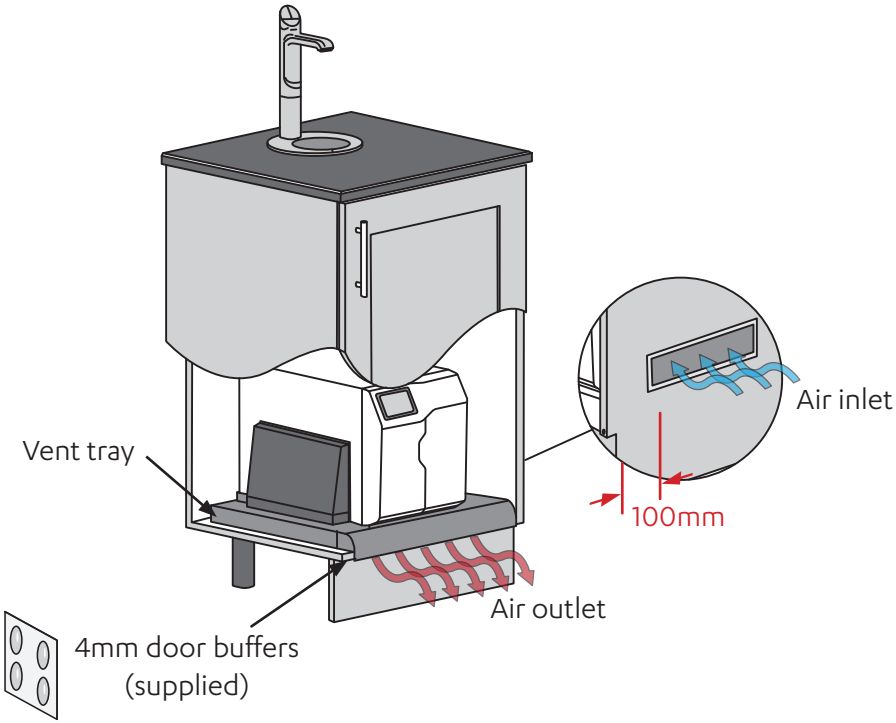
A clearance envelope around all Command Centres must be provided to allow ventilation for the safe and effective use of the HydroTap system.



CS100 & C100 models

- Cold air is drawn in through the inlet vent and gap provided by the door buffers.
- Warm air is exhausted through vent tray.
- Inlet vent is mounted over cupboard side, door or floor cut-out (see below).
- Observe 100mm inlet / outlet vent separation (see below).

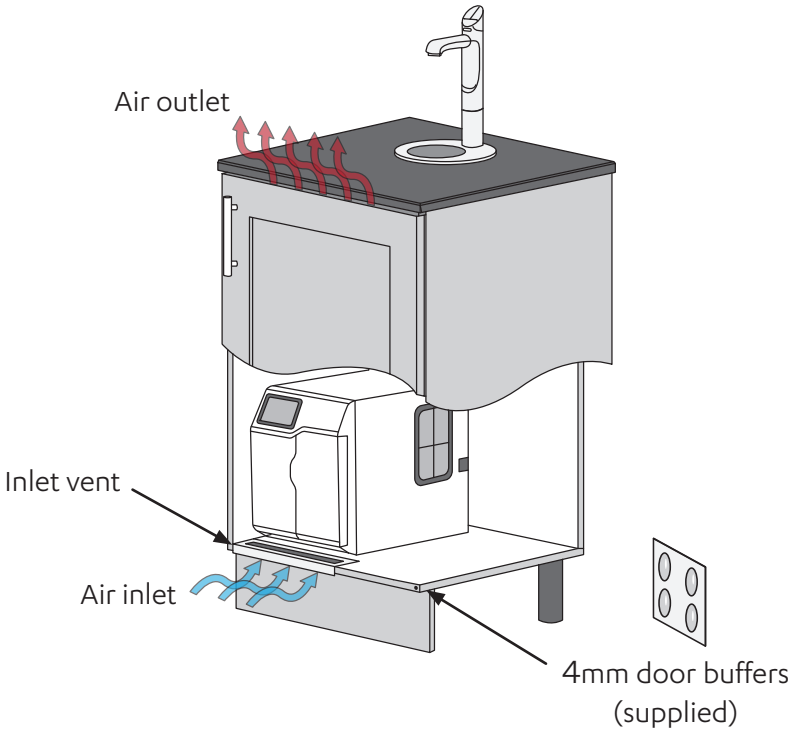
The vent tray must be fitted. It provides a safe exhaust for refrigerant gas in the unlikely event of a leak.



Vent tray dimensions WxDxH (mm): 500 x (515-555) x 40

C40 CS Home, C Home models

- Cold air is drawn in through the inlet vent and lower gap provided by the door buffers.
- Inlet vent is mounted over cupboard side, door or floor cut-out.
- Warm air is exhausted through upper gap provided by the door buffers.

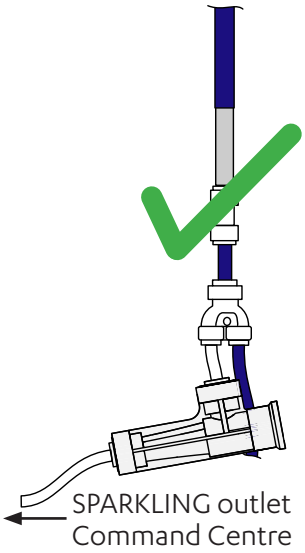


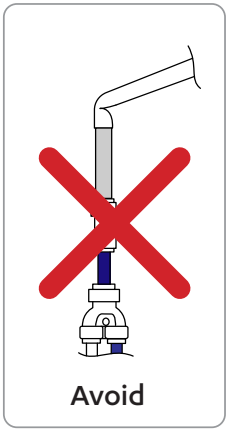
All models

If cupboard temperature exceeds 35°C, additional ventilation is required. Contact your Zenith service provider for options (including additional vents and fan kit).

SECTION 7: Fit the carbonation valve

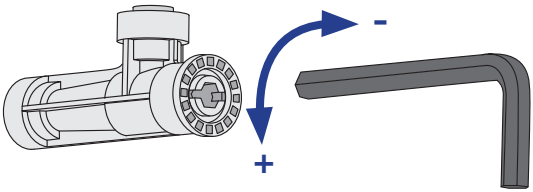
Chilled sparkling installations





Carbonation valve flow adjustment

- Use a 6mm Allen key or a large flat-blade screwdriver to adjust the valve.
- Rotate the adjustment screw anti-clockwise to increase, and clockwise to decrease the flow.



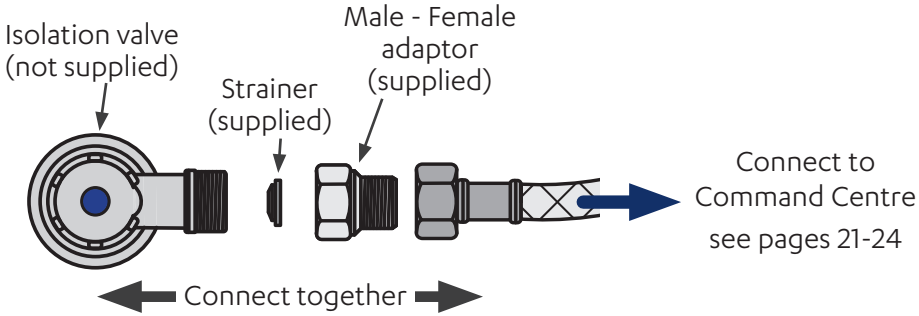
- To measure the set flow rate, use a measuring jug or cup and run the sparkling water for 15 seconds. The HydroTap has a default 15 second dispense time, which will help in your flow rate setup.
- Multiply the amount of water dispensed in 15 seconds by 4 to determine the flow rate in litres per minute.
- The optimum flow rate is 1.6 litres per minute (400ml per 15 seconds).
- If the flow rate is adjusted too high, the carbonation tank will be emptied of water, leaving only CO_2 to be dispensed from the tap. This will result in inconsistent flow (spluttering).

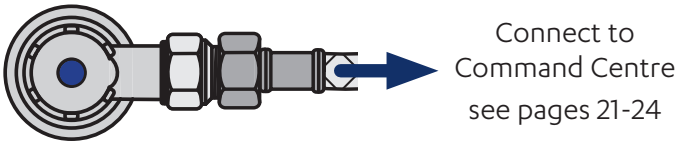
SECTION 8: Connect the water supply

Valves and fittings must be sealed with PTFE tape if compression seals are not included.

Note: Mixer tap installations also use a 'Tee piece' as part of the water supply plumbing connections, see the Tap installation instructions supplied with the Mixer Tap to connect the water supply if using the mixer tap option.

Note: correct strainer orientation.





SECTION 9: Install the CO_2 cylinder and regulator

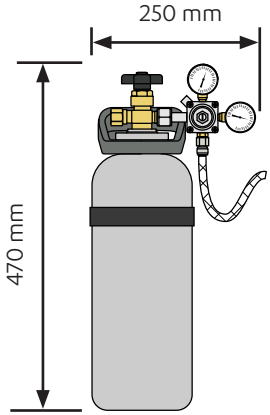
Be aware of the risks of hazards which could cause harm when handling compressed CO_2.

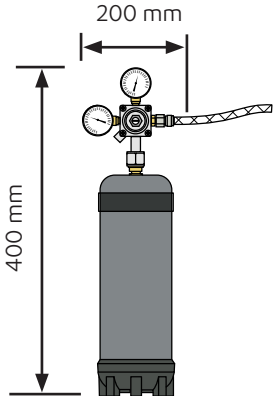
Read the important safety instructions at the start of this instruction manual.

Assess the risks before starting the installation.

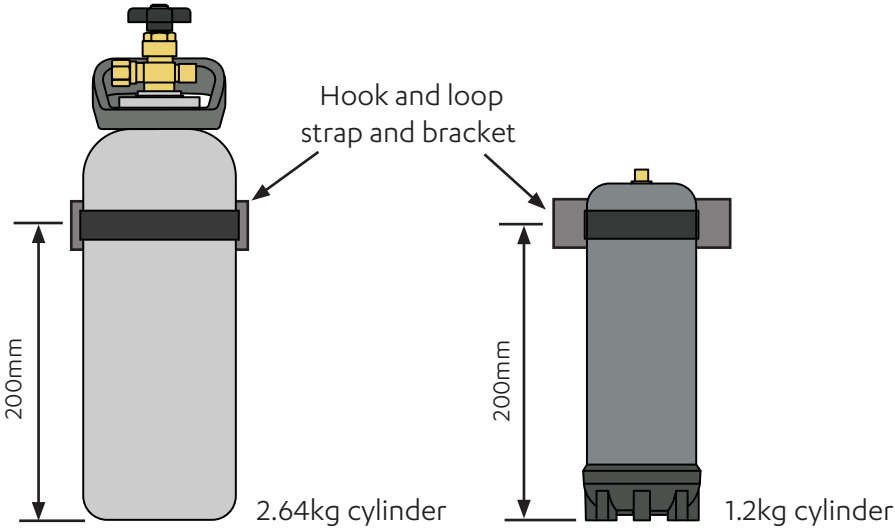
Secure the cylinder

Ensure these is sufficient space to safely secure the cylinder and regulator.



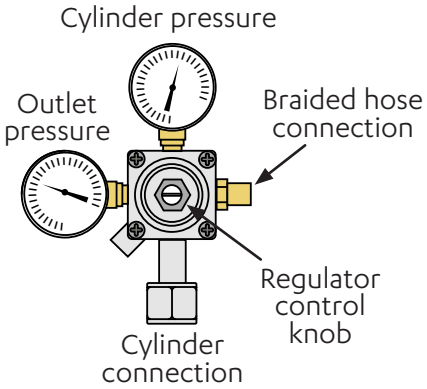


Secure cylinder vertically to a robust surface with the hook & loop strap and bracket supplied.

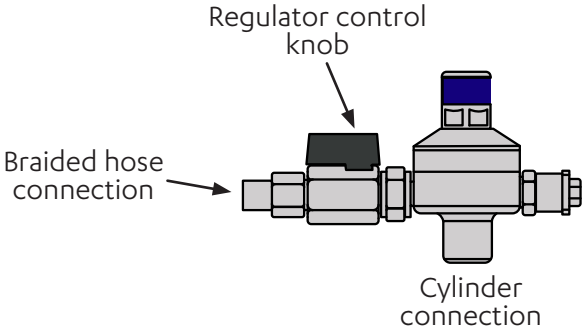


CO_2 regulator identification

Universal G5 regulator



1.2kg cylinder non-adjustable regulator

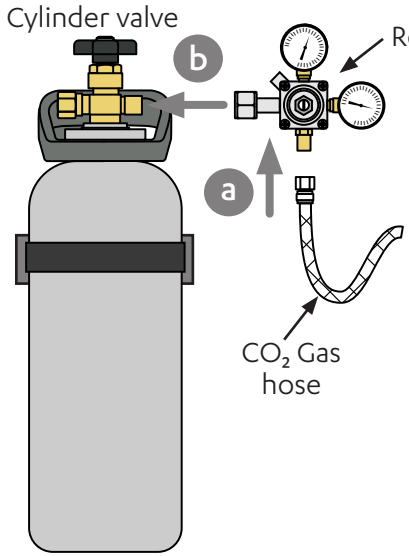


Fit the regulator and connect the gas hose

- Ensure all mating surfaces are clean.
- Turn the regulator OFF.
- Check the regulator and hose seals, inside the connectors.
- Connect the gas hose to the regulator.
- Carefully screw the regulator onto the cylinder connection.
- For the 1.2kg cylinder and Universal G5 regulator use the adaptor supplied.
- Connect the gas hose to the Command Centre (see section 10).

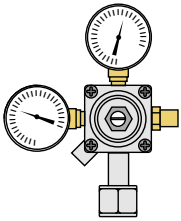
Do not proceed if the seals are damaged.

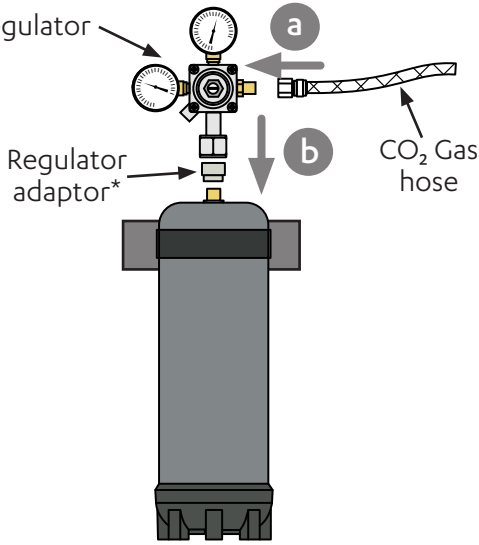
Take care not to cross thread the regulator. A cross-threaded regulator poses a potential hazard.



2.64kg cylinder

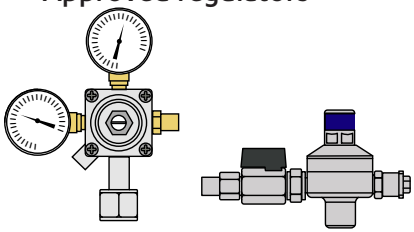
Approved regulators





1.2kg cylinder

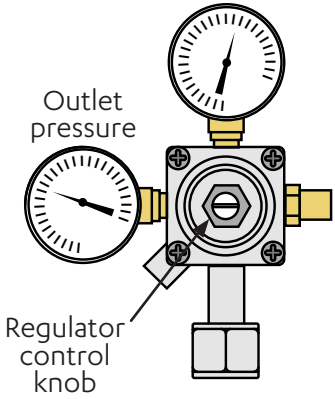
Approved regulators



*The regulator adaptor is only required for the Universal G5 regulator.

Adjust the regulator

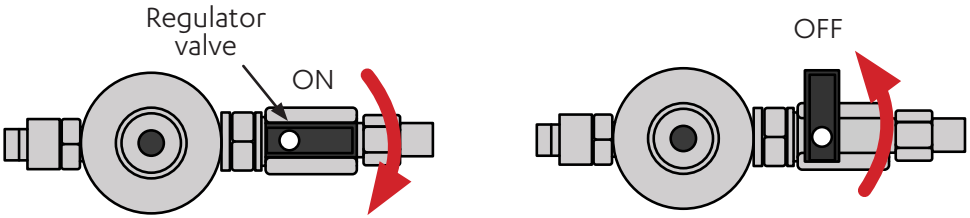
Universal G5 regulator



- Check the regulator is turned all the way OFF (anti-clockwise).
- Turn the gas ON using the cylinder valve (2.64Kg cylinder), (anti-clockwise).
- Turn the regulator control knob (clockwise +) to adjust the outlet pressure to 3.0 bar on the outlet pressure gauge.

Turning the regulator ON and OFF

1.2Kg cylinder non-adjustable regulator



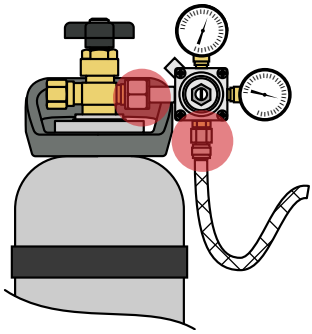
- Turn the regulator valve fully clockwise to turn ON the gas.
- Turn the regulator valve fully anti-clockwise to turn OFF the gas.

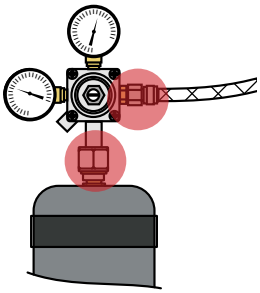
Test for leaks

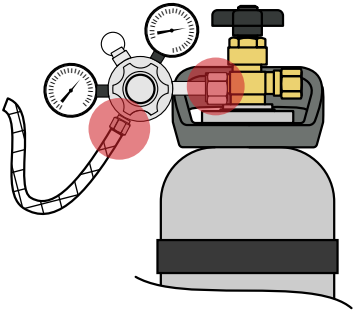
Care must be taken when working with high pressure carbon dioxide, and in no case should the normal operating pressure of 3.0 bar be exceeded.

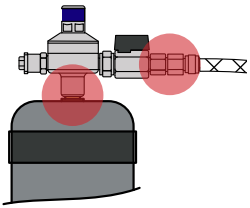
- Apply soapy water to the gas connections (see below), using a brush.
- If there is a leak, bubbles will appear.
- In the case of a leak, turn OFF the gas, clean away the soapy residue and re-seal the leaking connection.

Test for leaks in these areas





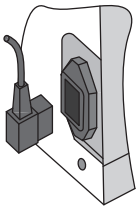




Generic installation instructions

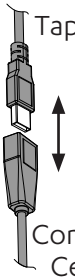
For HydroTap, mixer tap and any optional accessories, use instructions supplied with individual kit components.

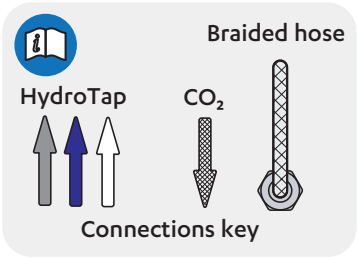
Mains power cable



Do not connect to the mains socket until commissioning

USB

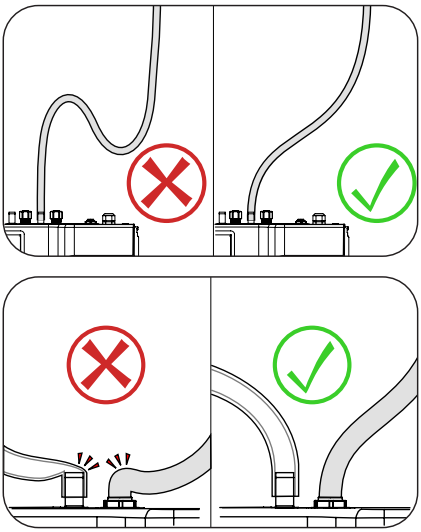




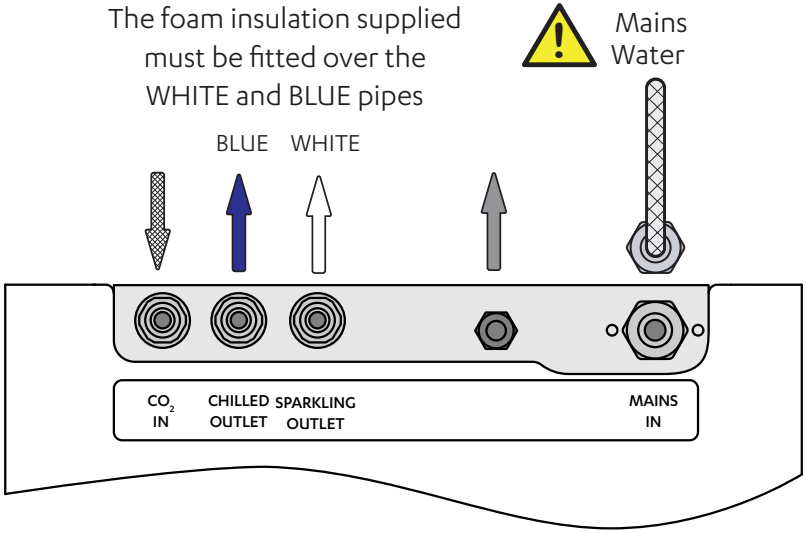
Installation diagrams are for illustrative purposes only. Hoses are not shown to scale and cannot be lengthened.

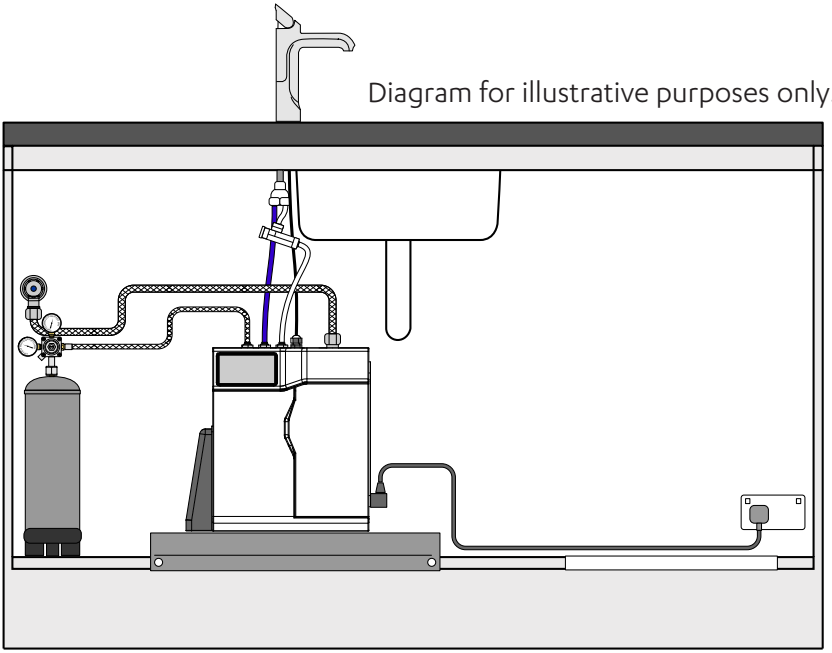
Tips for hose connection

- Push the silicone hose over the connector for a minimum of 15mm.
- Ensure there a constant fall from the tap down to the command centre.
- Hoses must be trimmed to avoid loops and kinks. Take care when positioning before cutting and make a clean cut straight across the hose, using a sharp blade.
- The hoses must not be under tension when installed.

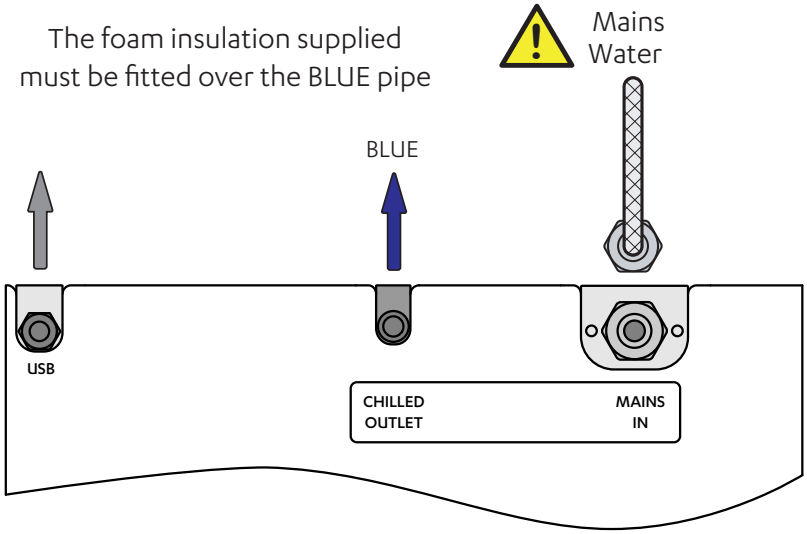


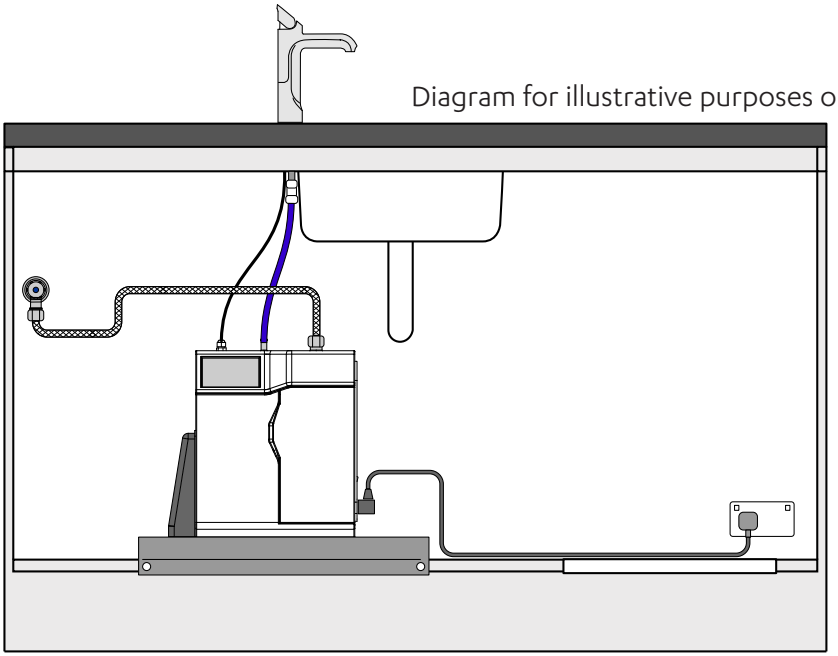
CS100 models



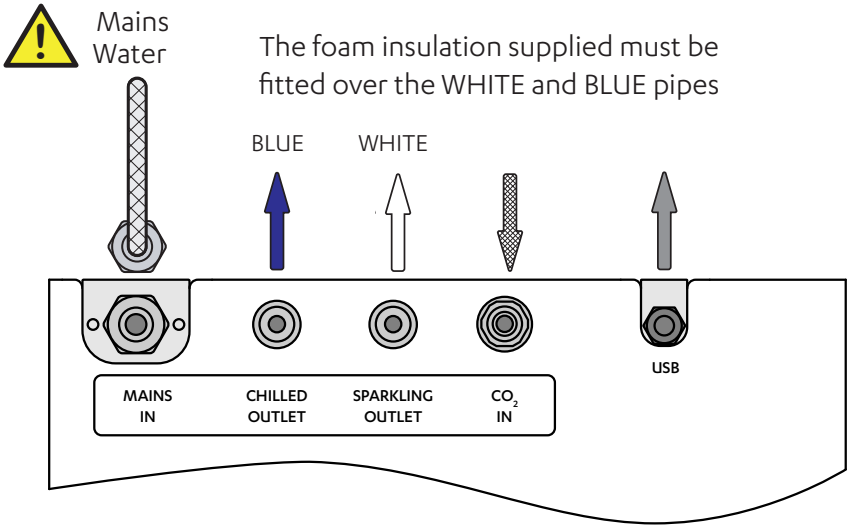


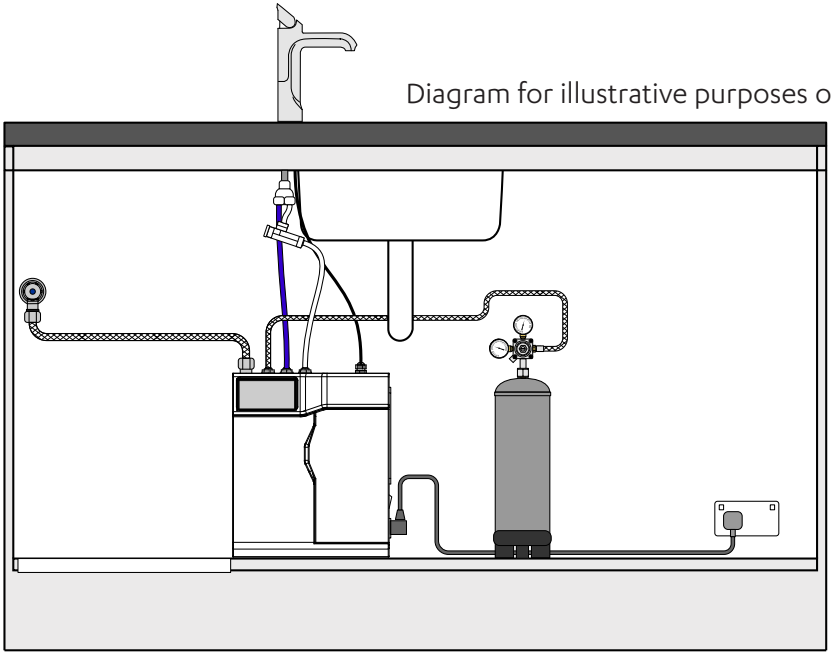
C40, C100 models



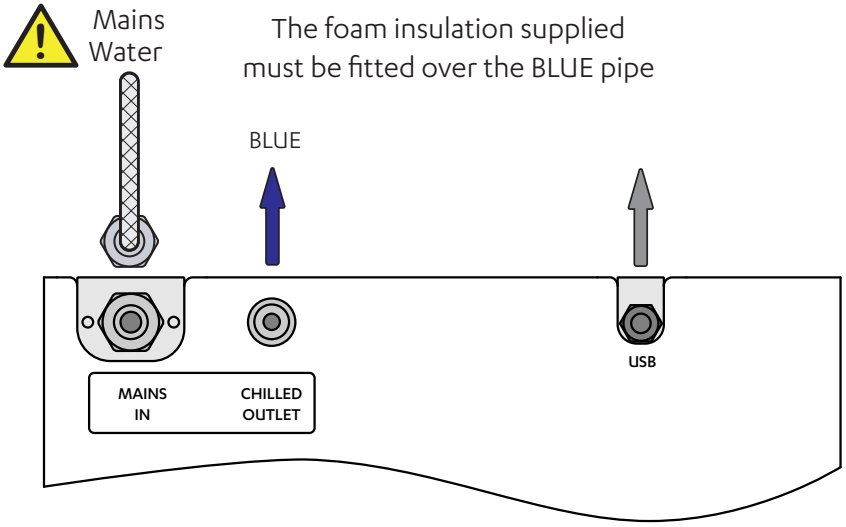


CS Home models





C Home models



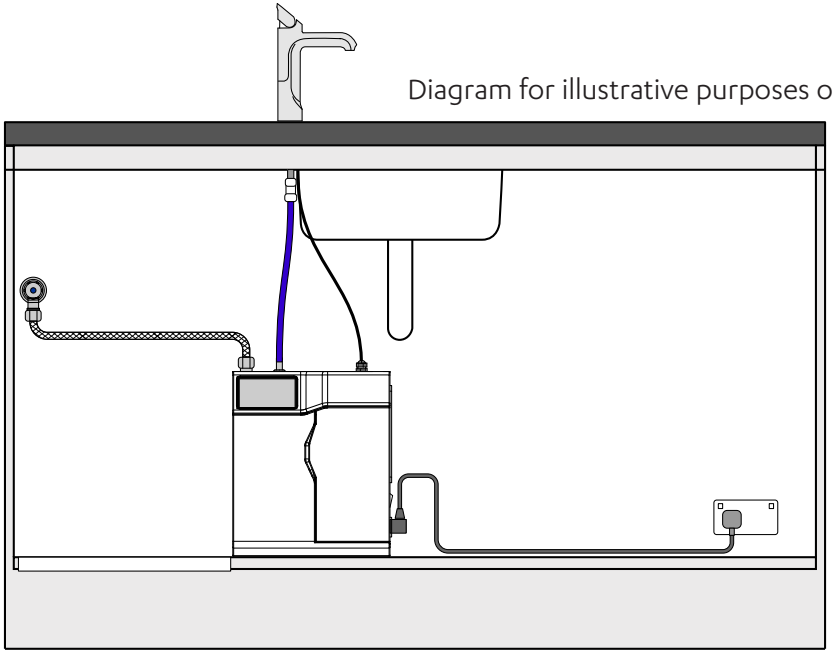


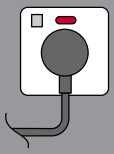
Diagram for illustrative purposes only.

1

See User Guide

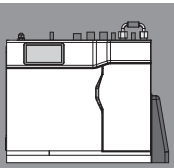
Unpack, moisten o-rings & fit filter

2



Connect electricity

3

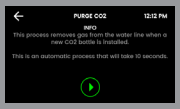


Monitor display screen

4

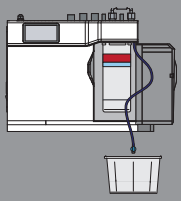
Set Language

5

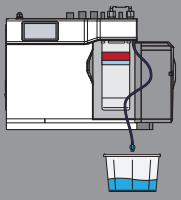


Purge CO_2

6

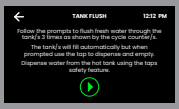


Filter flush



Flush 10 Litres through

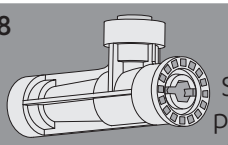
7



Tank flush

Dispense water as instructed

8



See page 13

Adjust carbonation valve

Notes

Notes

Refer to User Guide for operation and maintenance.

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