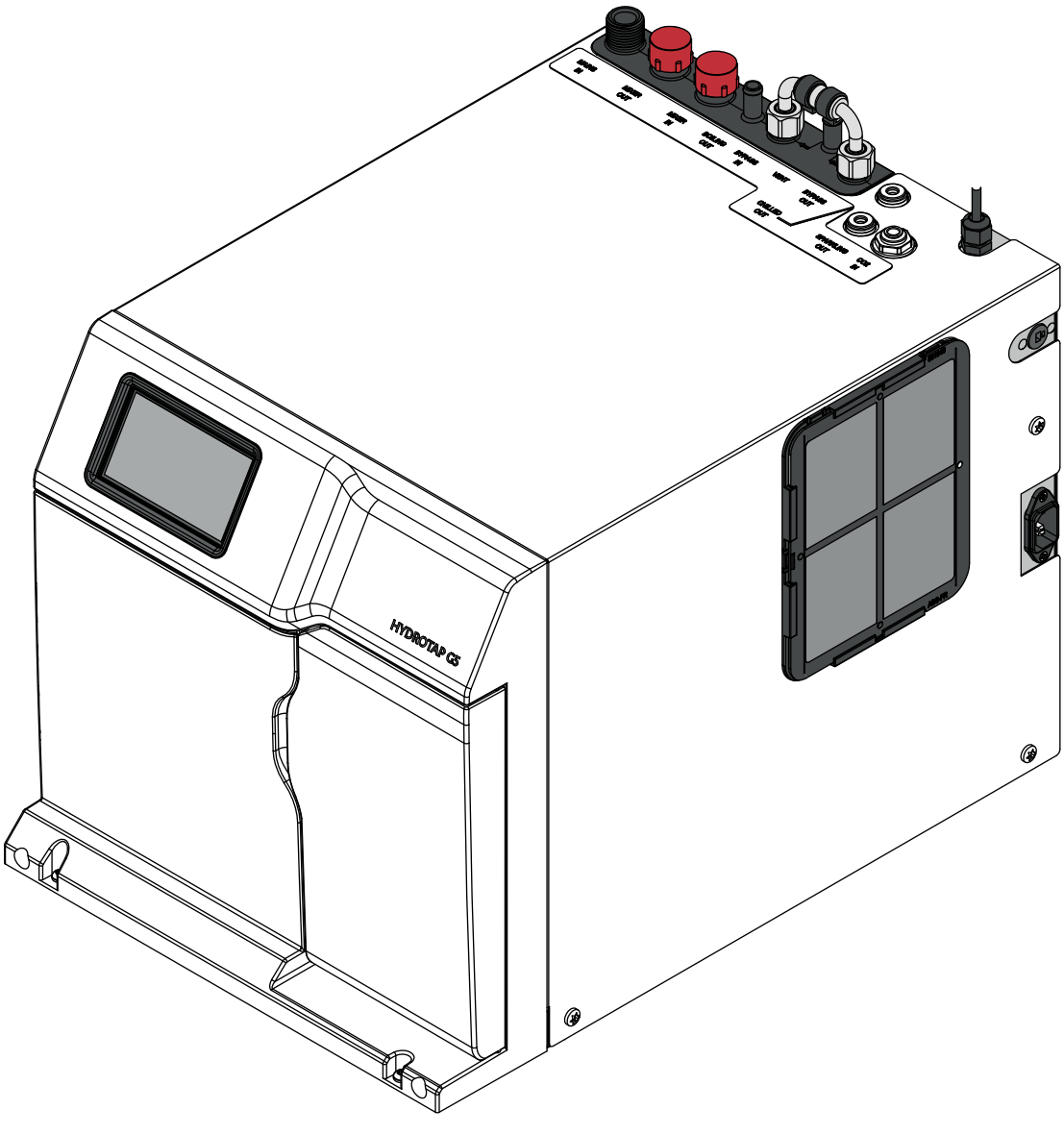
Installation instructions

Zip HydroTap® G5

Model :

BCS HOME, BCS20, BCS20 H, BCS30, BCS30 H Command Centres



INSTALLATION INSTRUCTIONS Table of contents

INSTALLATION INSTRUCTIONS Table of contents

Using these instructions

Explanation of symbols

Read the instructions

WARNING

DANGER Electric shock

DANGER Hot surface

DANGER Flammable

Gas WARNING

Button/ coin battery

Safety instructions

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

Section 1 IMPORTANT SAFETY INSTRUCTIONS

Compliance

In Australia electrical installation must comply with AS/NZS3000.
In Australia plumbing installation must comply with AS/NZS3500.
In 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 by-laws, current IEEE regulations and local authority by-laws.

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

WARNING! KEEP VENTILATION OPENINGS IN THE APPLIANCE ENCLOSURE OR IN THE BUILT-IN STRUCTURE CLEAR OF OBSTRUCTION.
The Zip HydroTap Command Centre range uses HIGHLY FLAMMABLE R290 refrigerant under pressure.
Check the rating plate or contact Zip before commencing work.
Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration technician.

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).

IMPORTANT SAFETY INSTRUCTIONS

- 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 22m³ 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 for a complete list of warnings (www.zipwater.com, www.zipwater.co.uk).

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.

Venting

Sometimes steam and / or boiling water droplets may discharge through a vent outlet on the tap. If not using the font, ensure the tap body is located so the tap outlet safely dispenses into the sink bowl.

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 Zip HydroTap 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.

Altitude

Water boils at varying temperatures at different altitudes. The HydroTap adjusts for this during startup calibration and will recalibrate itself on a regular basis.

Frost protection

If the HydroTap 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. This safeguard does not offer the same protection to the connecting pipework and fittings.

Application

The HydroTap G5 Home series is intended to be used in household and similar applications such as:

- Staff kitchen areas in shops, offices and other working environments;
- Farm houses and by clients in hotels, motels and other residential type environments;
- Bed and breakfast type environments;
- Catering and similar non-retail applications.

Compressed gas warning - HydroTap Clean can

- Read label before use.
- Keep out of reach of children.
- Use according to SDS (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.
- SDS is available for download at www.zipwater.com or www.zipwater.co.uk

First aid

- For advice contact a Poison Control Information Centre
- Australia (+61) 131126
- Ireland (+353) 1809 2166
- UK (+44) 171 635 9191

WARNINGS AND REGULATORY INFORMATION

- For continued safety of this appliance it must be installed, operated and maintained in accordance with the manufacturer's instructions.
- This appliance may deliver water at high temperature. Refer to the Plumbing Code of Australia (PCA), local requirements and installation instructions to determine if additional delivery temperature control is required.
- The Zip 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 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.
- The integrated vent provides a safe exhaust for the refrigerant gas in the event of a leak.
- Do not expose the Zip HydroTap to the elements of nature.
- The booster complies with protection class IP 20.
- For UK, a pressure limiting valve must be fitted for mains water pressures above the maximum limits stated.
- Use of tools can be hazardous, assess the risks before you start.
- A clearance envelope around all Command Centres must be provided to allow adequate ventilation for the safe and effective use of the HydroTap system.
- Valve and fitting threads must be sealed appropriately with PTFE tape where compression seals are not provided.
- Always flush new filter before use.
- Do not over tighten plumbing and hose connections.
- Braided hoses supplied cannot be lengthened.
- 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 Zip 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, Zip recommends to perform a system flush. Failure to flush the system may affect water quality.
- For UK, this appliance only contains materials that conform to the requirements of BS6920:2014 'Suitability of non metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of water'.
- Use the new hose set supplied with the unit. Do not re-use old hose set.
- The button/coin battery is hazardous and is to be kept away from children. It can cause severe or fatal injuries in 2 hours or less if it is swallowed or placed inside any part of the body. Medical attention should be sought immediately if it is suspected the battery has been swallowed or placed inside any part of the body.

Technical data

Technical data table

Model	Power rating kW 220-240V 50Hz	Power rating kW 220V 60Hz	Dimensions W x D x H (mm) Command Centre only	Weight (kg)
Boiling Chilled Sparkling models				
BCS30, BCS30 H	1.96 + Booster	1.86 + Booster	339 x 483 x 333	34
BCS20, BCS20H	1.96	1.86	339 x 483 x 333	41
BCS HOME	1.53	1.45	339 x 483 x 333	41

Electricity supply requirements

220-240V 50Hz AC (for power requirement see table above).
220 60Hz AC.

Country	Without Booster	With Booster
Australia	1x 220 - 240V AC 10A socket	2x 220 - 240V AC 10A sockets
UK	1x 220 - 240V AC 13A socket	2x 220 - 240V AC 13A sockets

Water supply pressure requirements

Component	Min - Max pressure, kPa (bar)	
	Australia	UK
HydroTap	170 (1.7) - 700 (7.0)	170 (1.7) - 500 (5.0)
Sparkling HydroTap	250 (2.5) - 700 (7.0)	250 (2.5) - 500 (5.0)
Vented Mixer Tap	300 (3.0) - 700 (7.0)	200 (2.0) - 500 (5.0)
Lime scale filter	200 (2.0) - 700 (7.0)	200 (2.0) - 500 (5.0)

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

Water supply connection

1/2" BSP (G1/2)

Booster specification

Specification	Rating
Power at 230V 50/60Hz	2.20 kW
Power at 240V 50/60Hz	2.40 kW
Flow rate	1.2 L/m

Supplied parts checklist

BCS models

Parts supplied in the kit	BCS20 BCS Home	BCS20 H	BCS30	BCS30 H
Tap				
HydroTap tap, pipes, tubes hoses and fittings		✓		
Vented Mixer Tap, hoses, fittings & instructions	×	✓	×	✓
Mains Mixer Tap, hoses, fittings & instructions	Optional	×	Optional	×
Command Centre				
Command Centre		✓		
Mains electrical supply cable		✓		
Water supply inlet hose		✓		
Water supply inlet adaptor and strainer		✓		
Ventilation kit		✓		
Install rail kit		UK Only		
CO_2				
CO_2 cylinder & instructions		✓		
CO_2 regulator & hose		✓		
Booster				
Booster & hoses	×		✓	
Filters				
Water filter & instructions		✓		
Lime scale filter kit		Optional		
Font				
Font kit		Optional		

Note Mains water isolation valve is not supplied with the kit.

Contact Zip for the full range of consumables and accessories.

Installation checklist

- Check if there is adequate space to install all of the components.
- Note Not all fittings are supplied with the appliance kit. Isolation valves are not supplied.
- Check the mains water pressure is within min / max requirements.

- Check the water quality to determine if extra filtration will be required.
- Note This product must be fitted to a wholesome water supply.
- Check the Command Centre rating plate and ensure correct power is available.

- Check the under counter cupboard floor supporting the Command Centre is adequate for its total weight, when full of water.

Before commissioning

- Check the system has been installed correctly.
- Check all plumbing fittings for water tightness.
- Ensure the outlet and vent pipes are positioned to drain correctly.
- Ensure there is adequate ventilation.

- Check all tubes and pipes from the Command Centre to the tap have a constant rise and there are no sags or kinks in the hoses.

Commissioning

- Flush the supply line before connecting.
- Turn on the water and check for leaks.
- Flush the filter(s).
- Activate / enable the booster (if fitted).
- Adjust the carbonation flow valve (sparkling models).
- Calibrate the safety sensor for boiling models (optional).
- Where applicable, programme the Command Centre to suit the customer's requirements.

Before installation

- Review of all the technical specifications.
- Ensure the under counter cupboard floor can support the product weight when full of water (allow an extra 3-8kg when full).
- Sufficient space in the cupboard to install the Command Centre and other components in accordance with these installation instructions.
  (Click 'Tech data' tab for dimensions). Make allowance for a booster if required.
- **Note** Check all cable and hose lengths against inlet /outlet positions before proceeding (see Section 4 for general layout).
- A Potable (wholesome) water supply connection with a minimum working pressure of: (click 'Tech data' tab for min. / max. water supply pressure) with isolating valve inside the cupboard within reach of the braided hoses and positioned so that the connection point and the stop cock will not be obstructed when the Command Centre is installed.
- For the All-In-One Classic, Celsius and Mains mixer taps a hot and cold water supply are required. (click 'Tech data' tab for min /max. water supply pressure).
- If external filtration or a lime scale protection filter is required, then it is important to allow extra space for it.
- The appliance must be placed with its base in a horizontal position.
- Ensure proper ventilation for CO_2 (see Important safety instructions, Warnings and regulatory information).

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

General product features

Thank you for purchasing a Zip HydroTap G5. Please read and follow these instructions carefully to ensure safe and trouble free operation. If help and advice is required, contact your local service provider.

What is the Zip HydroTap G5 ?

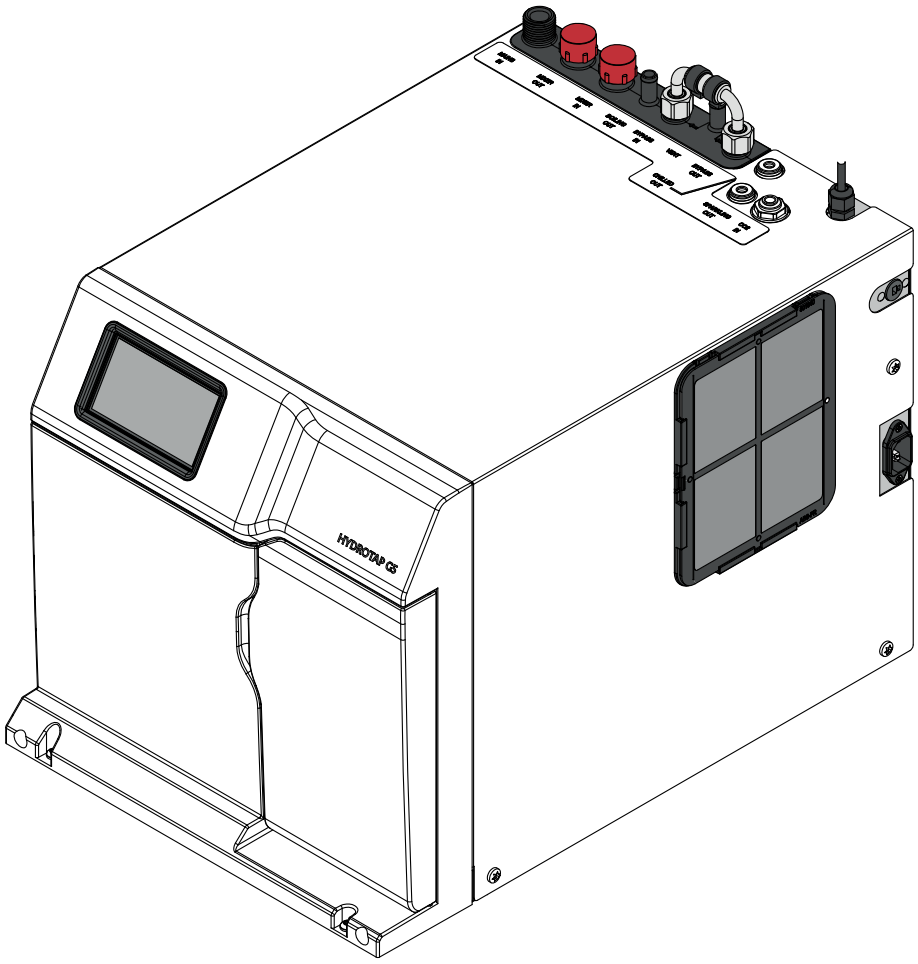
This Zip HydroTap G5 is an electronically controlled, filtered, boiling, chilled and sparkling (functionality is dependant upon model purchased) drinking water system for the kitchen. The HydroTap G5 systems are under counter drinking water appliances with a dispensing tap mounted on a sink or worktop, which have been designed for commercial or residential applications. The HydroTap G5 utilises a conventional refrigerant compressor to chill the water and an immersion heating element to boil the water.

These units are NOT designed to be used solely as sanitary fixtures.

The Zip HydroTap G5 models which dispense boiling water are fitted with a tap mounted safety lock. In addition, there are various energy saving options accessible via the main menu. The system is equipped with a self-calibrating program which caters for altitude adjustment. The water filter and CO_2 gas cylinder (sparkling models) are disposable items which will require periodic replacement and are covered by a limited OEM warranty.

It is important that the installation be undertaken safely, correctly and completely in order to utilise all the benefits that the HydroTap G5 can provide. Classic taps can be ordered with the accessible tap head assembly, supplied with Braille caps.

Command Centre



Section 2 Ventilation

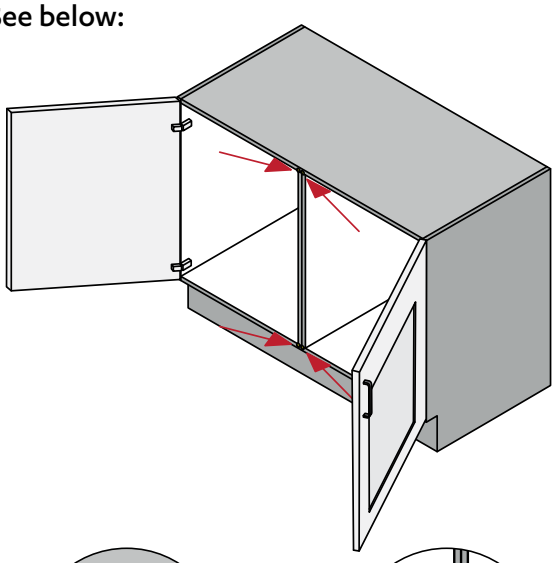
Read and use the instructions and safety information supplied with individual kit components for a safe installation.

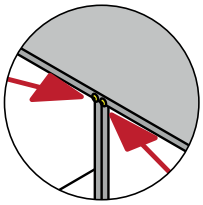
Clearance envelope & airflow

The integrated vent aperture must be cut out of the cupboard floor & mounting plate fitted. The vent provides a safe exhaust for the refrigerant gas in the unlikely event of a leak.

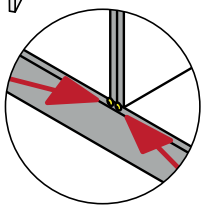
A clearance envelope above and adjacent to the cold air inlet of the Command Centres must be provided to allow ventilation for the safe and effective use of the HydroTap system, see arrangement below.

The door buffers (supplied) must be fitted to the cupboard, for each door, in all installations, to maintain effective airflow. See below:



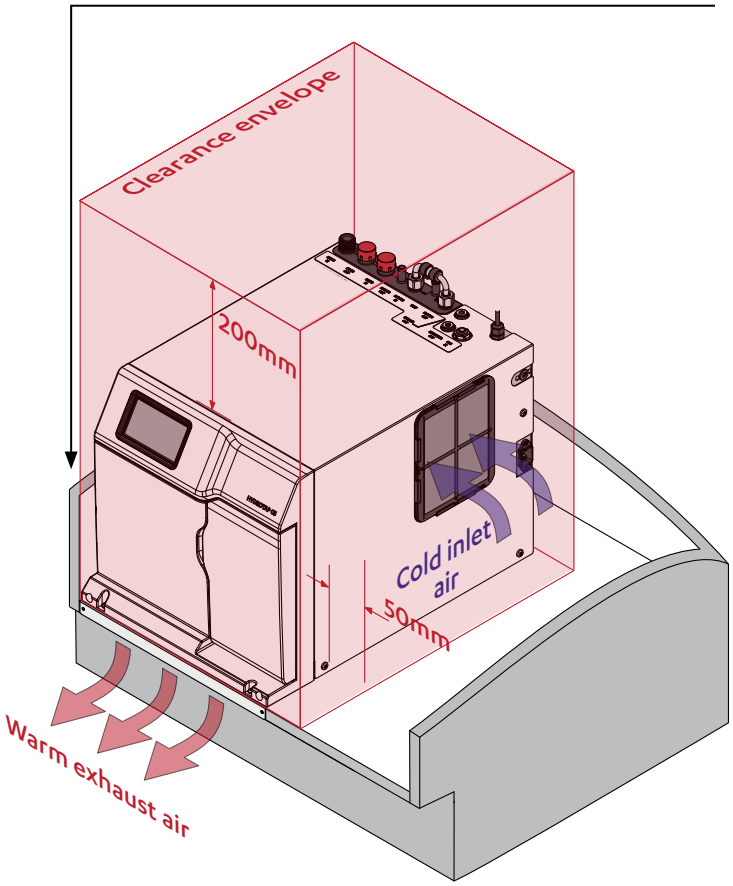


Bottom door buffers



Top door buffers

Note
If necessary the Command Centre side **without the air inlet vent** can be positioned adjacent to the cupboard wall.



Installing the ventilation components

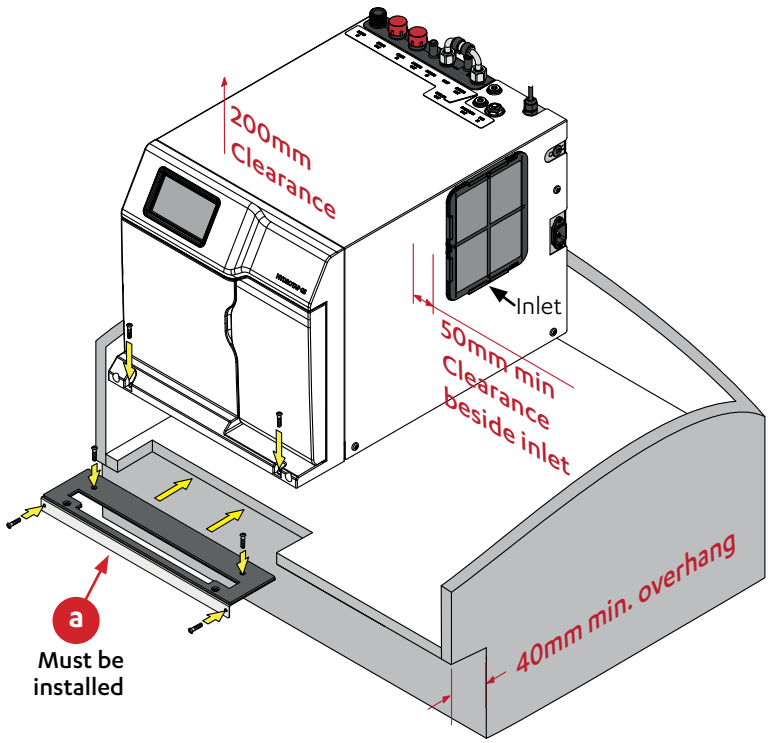
Make sure there's enough ventilation in the cupboard, air needs to circulate as follows:
Cold air is drawn in through the gaps provided by the **door buffers supplied, they must be fitted**.
Warm air is expelled through the integrated vent in the base of the Command Centre, via the vent cut-out in the cupboard floor.
Command Centre clearances must be observed.
A vent mounting plate a or b (supplied) covers the cut out.
To install the mounting plate, follow the instructions supplied with it.
If installing in a cupboard with less than 40mm overhang, use vent d too.

Incorrect ventilation installation may void warranty coverage.

BCS Home, BCS20, BCS20 H, BCS30, BCS30 H ventilation options

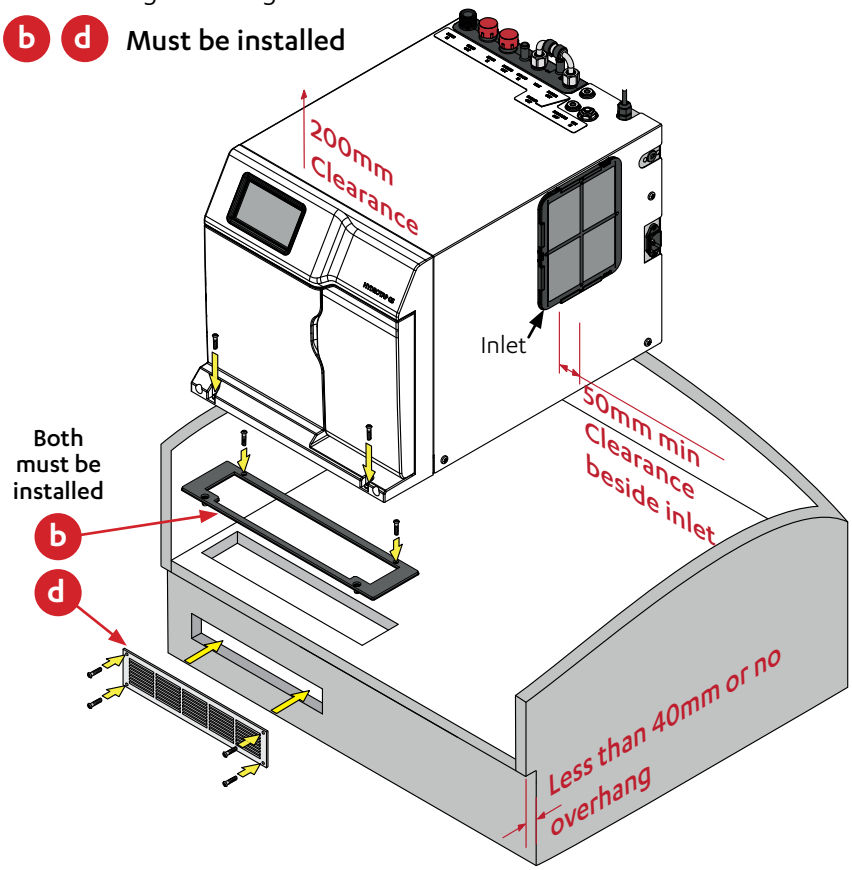
Option 1: Ventilation arrangement using small cupboard with min. 40mm overhang Directing warm air straight into the room.

a **Must be installed**



Option 2: Ventilation arrangement using small cupboard with less than 40mm, or no overhang. Directing warm air into the kick space & out through a vent grille.

b **d** **Must be installed**

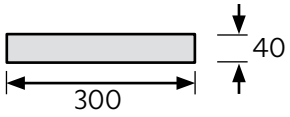


Vent grilles & plates cut-outs

For integrated vent cut-out, check size relative to your product.

a **b**

For Command Centre width 339mm



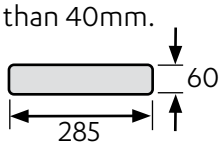
For mounting plate options, refer to the instructions supplied with it.

Align the mounting plate to the edge of the cupboard floor, and secure with the 4 self-tapping screws supplied.

Then, secure Command Centre to mounting plate with 2 screws supplied.

Kick space grille

d Mandatory for overhangs less than 40mm.



Description

- The install rails can be used to safely connect a wide range of water appliances to the mains water supply. The install rails include an isolation valve, double check valves, tamper proof pressure reducing valve pre-set to 0.3 MPa and a flood preventer with reset.

Specification

Technical data	95565	95201
Dimensions, length x dia.	350mm x 75mm	295mm x 75mm
Pressure rating	1.6 MPa, (16 bar), pre-set to 0.3 MPa, (3 bar) outlet	
Operating temperature range	1 - 32°C	
Connections	In 15mm, Out 1/2" BSP	In 15mm, Out 3/4" BSP
Maximum flow rate	30 l/min	
Minimum flow for flood preventer trip	2 l/min	
Water cut off range	5.0- 50.0l , preset to 10l	

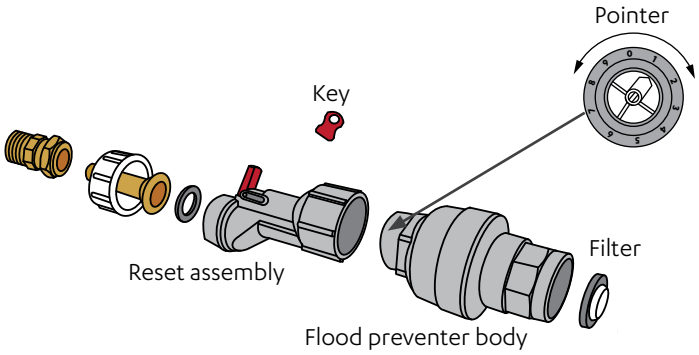
Installation

The install rail must be installed vertically with the direction of flow downwards (inlet at the top, outlet at the bottom).

- The install rail must be installed vertically, pointing downward.
- Connect the 15mm inlet connection (see diagram on next page) of the install rail to a wholesome (cat 1) cold mains water supply & then connect the outlet to the appliance : 95565 - 1/2" fittings.

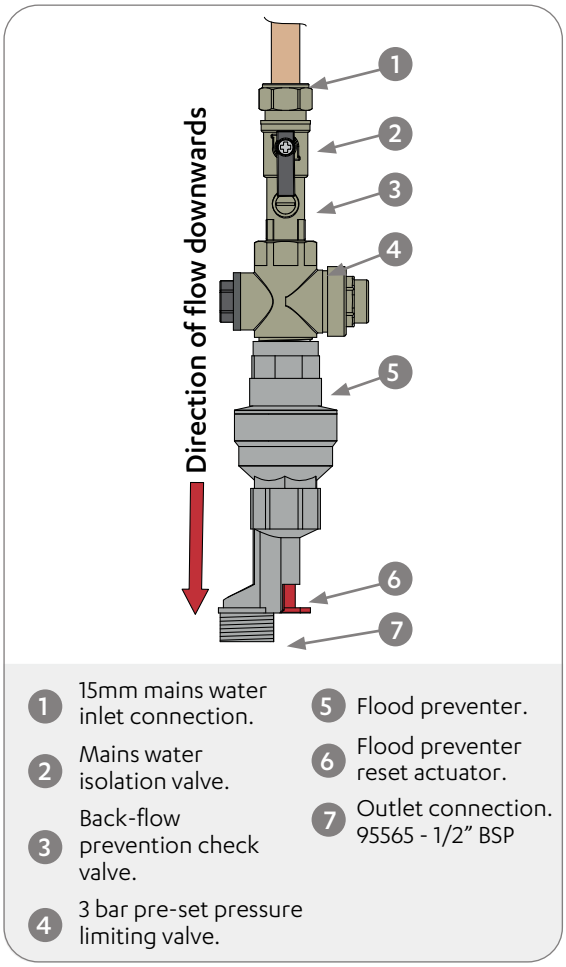
Flood preventer trigger adjustment

- The flood preventer trigger flow rate is adjustable, and pre-set to 10l/min.



- To adjust the maximum flow rate of the flood preventer trigger :
- Turn off the mains water isolation valve.
- Unscrew flood preventer from isolation valve.
- Unscrew the reset assembly from the flood preventer body.
- Turn the pointer with the key supplied to the maximum acceptable flow rate.
- Scale :1 =5 l/min, 2 =10 l/min, 3=15 l/min etc.
- Upon re-assembly, ensure that the filter is clean and inserted correctly with the convex surface facing towards the water supply (see above).

Install Rail features



1. 15mm mains water inlet connection.
2. Mains water isolation valve.
3. Back-flow prevention check valve.
4. 3 bar pre-set pressure limiting valve.
5. Flood preventer.
6. Flood preventer reset actuator.
7. Outlet connection. 95565 - 1/2" BSP

Reset procedure

- The trigger will activate and shut off the supply if the flow rate exceeds the set point, to reset :
- Close the isolation valve on the install rail & identify and repair the leak.
- Press the reset actuator upwards, then open the isolation valve.

Connect the braided hose to the mains water supply

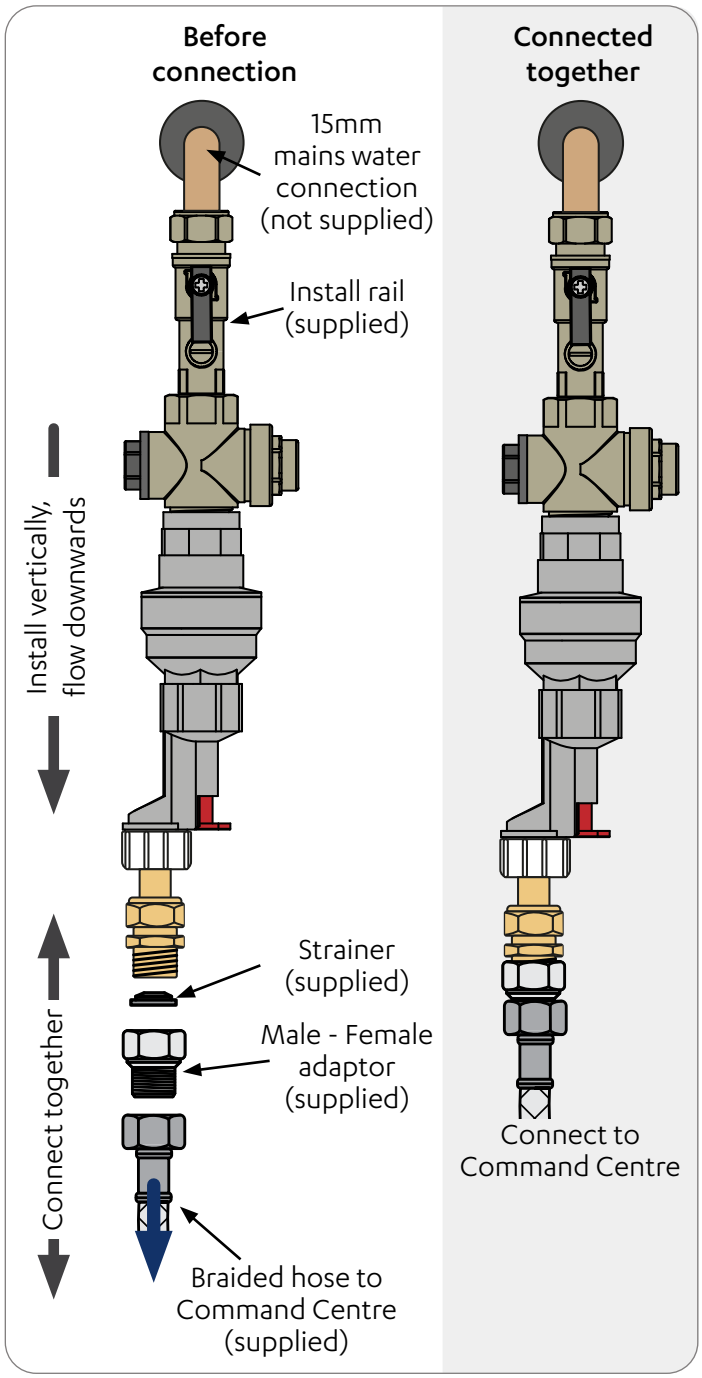
Valves and fittings must be sealed with PTFE tape if compression seals are not included.

Note correct strainer orientation.

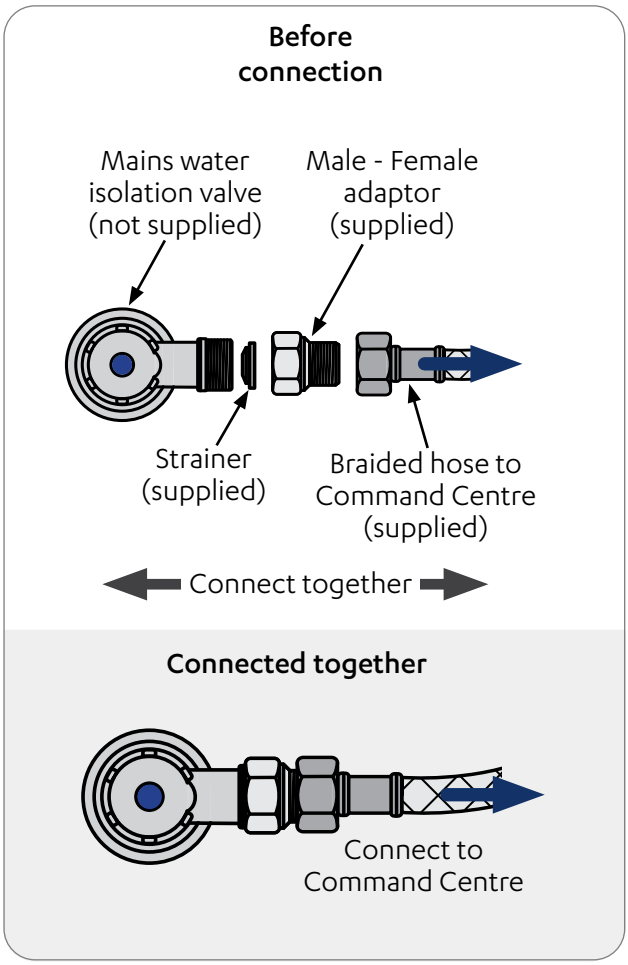
Note Mixer tap installations also use a 'Tee piece' as part of the water supply plumbing connections, see the Tap installation instructions supplied with the Mixer Tap to connect the water supply if using the mixer tap option.

UK connections

Use instructions supplied with Install rail

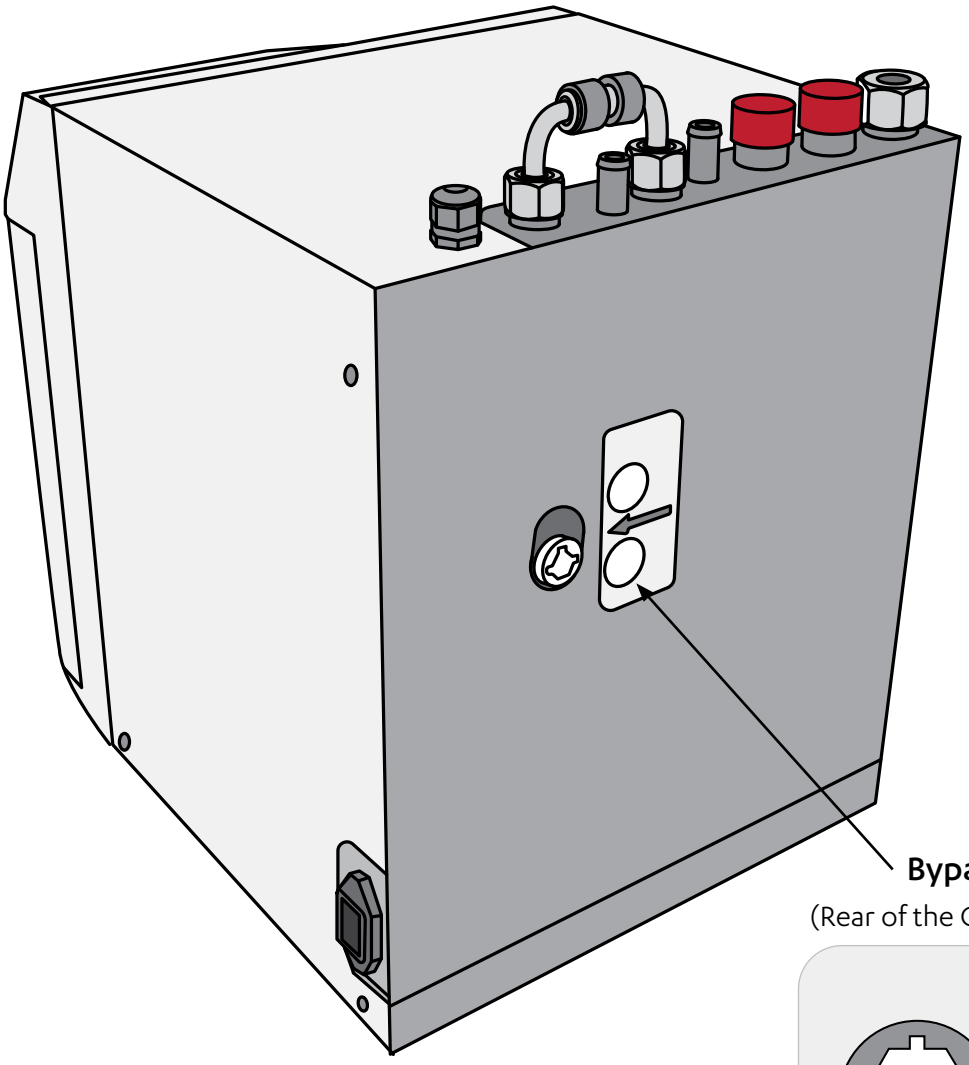


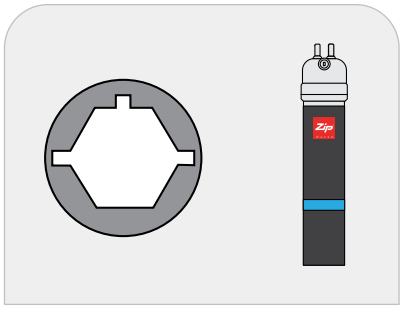
Australia connections

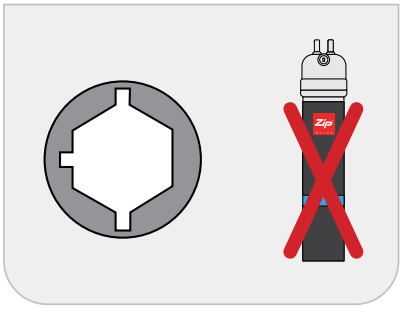


External bypass valve

The following products have an external bypass valve.
The external bypass valve allows the user to choose to have the boiling feed water bypass the internal filter and only be filtered by the external filtration. This valve is located at the rear panel of the Command Centre.







Limescale filter

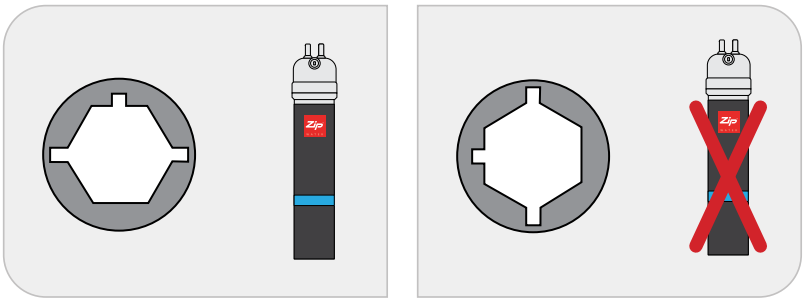
Note UK only option.
An external lime scale filter may be fitted as an optional accessory to reduce the incidence of lime scale build up in the hot tank or may be supplied at the customer's request.

For Limescale filter installation instructions, scan the QR code on the Limescale filter carton.

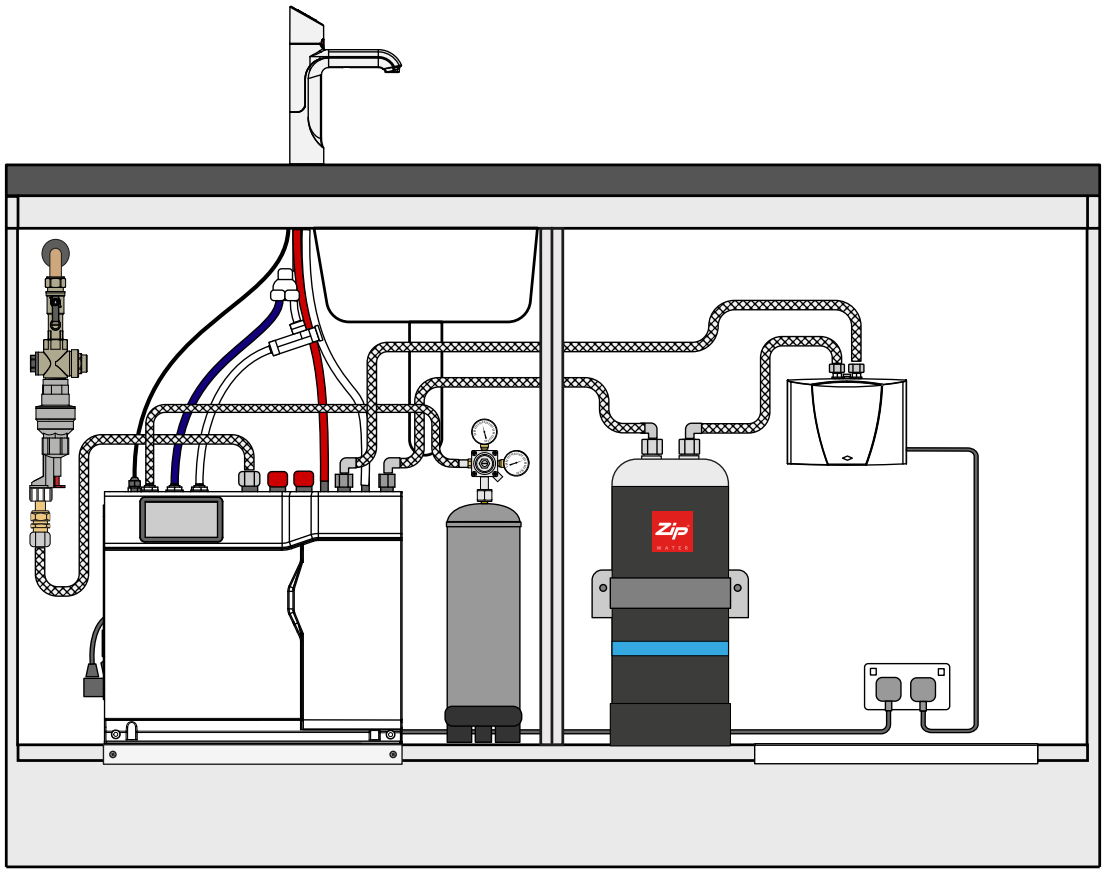
Place the filter in position vertically on a stable surface sufficiently robust to support its weight.
Ensure that the fibre washers supplied are fitted in the threaded hose ends.
Flush the filter before use.

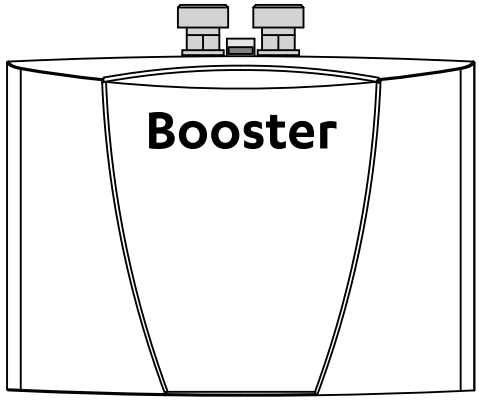
Set the HydroTap Command Centre external bypass valve

(Rear of the Command Centre)



- If space is available, fit the limescale filter in the Command Centre cupboard.
- If space is limited, cut a hole through & fit the filter in an adjacent cupboard (see below).

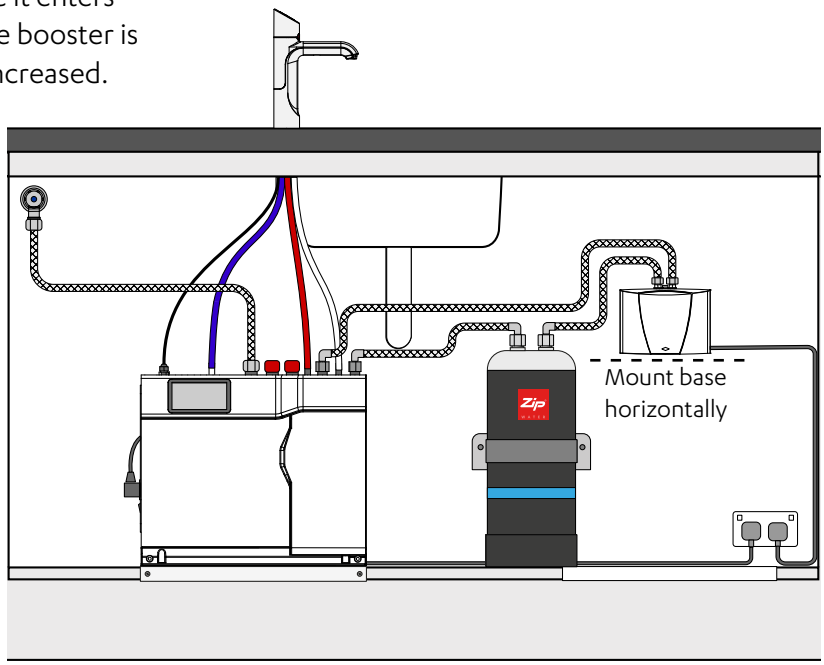




An external booster heater is supplied, or may be purchased as an upgrade to increase Boiling capacity, with selected commercial boiling models.

Booster description

The booster system is a compact electronically controlled auxiliary water heater. It is intended to provide pre-heating of water before it enters the Zip HydroTap G5 boiling tank. If the booster is used the boiling water output will be increased.



Note 1 Water connection
blue cap - water in.
red cap - water out.
The braided hoses cannot be lengthened.
Note 2 The electrical cable length is 0.6m.
Note 3 Position the booster within reach of the fixed hose lengths, keeping the booster as close as possible to the Command Centre inlet / outlet connections.
Note 4 Ensure the booster is mounted in an upright position (as shown) with a horizontal base.

Note 5 Before you install a booster, determine whether an external water filter / softener is required. If an external water filter / softener is required, the external bypass valve must be set correctly.

Booster specifications

	Rating	Unit
Nominal power rating	2.2	kW
Nominal current	10	A
Electricity supply 50Hz AC	230	V
Electrical flex, white - 0.6m nom. length	13	A
Fixed flow rate	1.2	L/min

Booster connections

- Cold water into Booster, connect to Command Centre BYPASS OUT.
- Hot water out of Booster, connect to Command Centre BYPASS IN.

Installation procedure

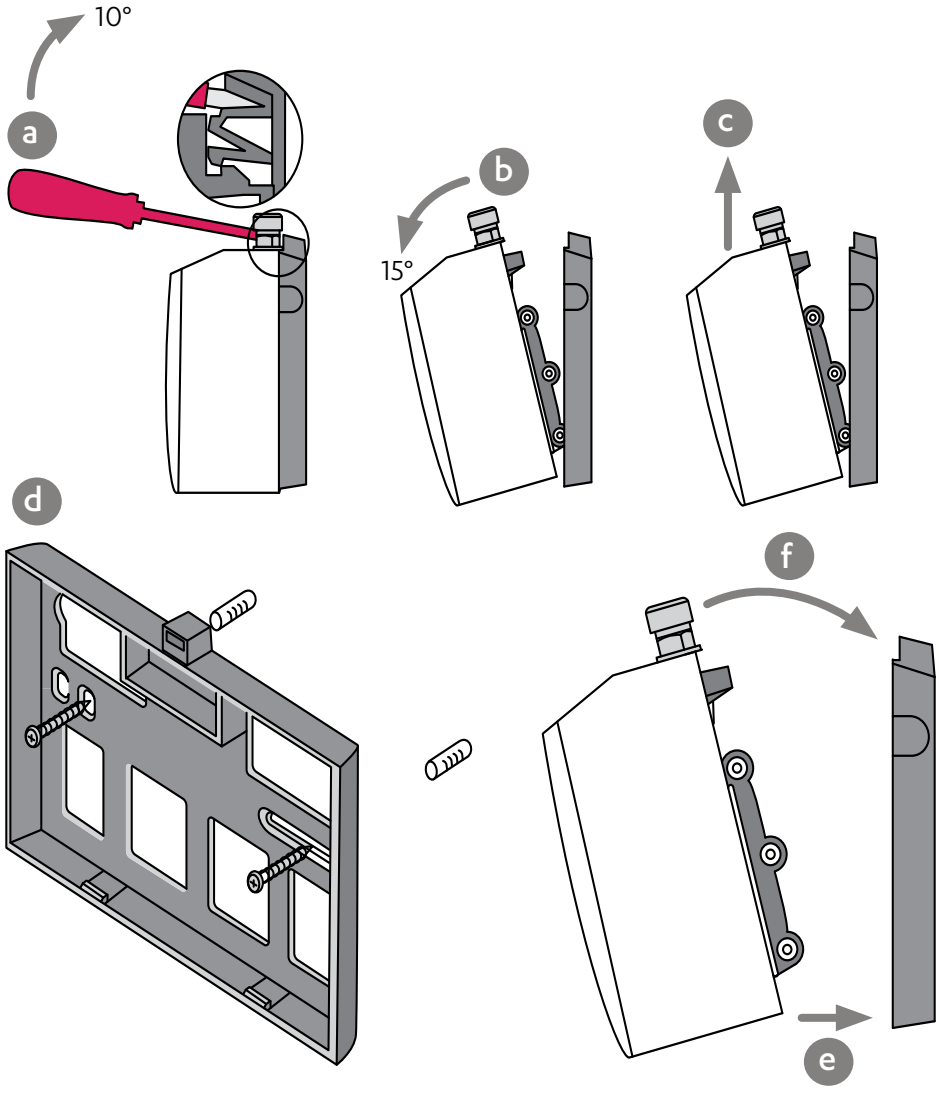
Site requirements

- Booster must only be installed in a frost-free area. Never expose booster to frost.
- The booster is designed for wall mounted installation and must be installed with water connectors facing upwards.
- The booster is protected against water ingress to class IP 20.
- The braided hoses supplied with the booster cannot be lengthened.
- The 90° elbow hose ends should be fitted to the inlet and outlet connections on top of the booster.
- The hot water outlet hose must be thermally insulated with the insulation provided.

Booster installation see diagrams below

- To remove the mounting chassis, insert a flat blade screwdriver all the way into the lock.
- Gently angle the screwdriver upwards by approximately 10°.
- Pull the booster forwards by approximately 15°. Carefully pull the booster upwards to complete the removal process. Take care not to break the lower clips.
- Attach the mounting chassis horizontally to the wall / cupboard wall.
- To install, clip the booster into the on the mounting chassis and snap into position (see installation below).

Note Remove the wall mounting chassis from the rear of the booster for wall mounting.
Note Take care not to break the lower clips when removing or installing the booster.

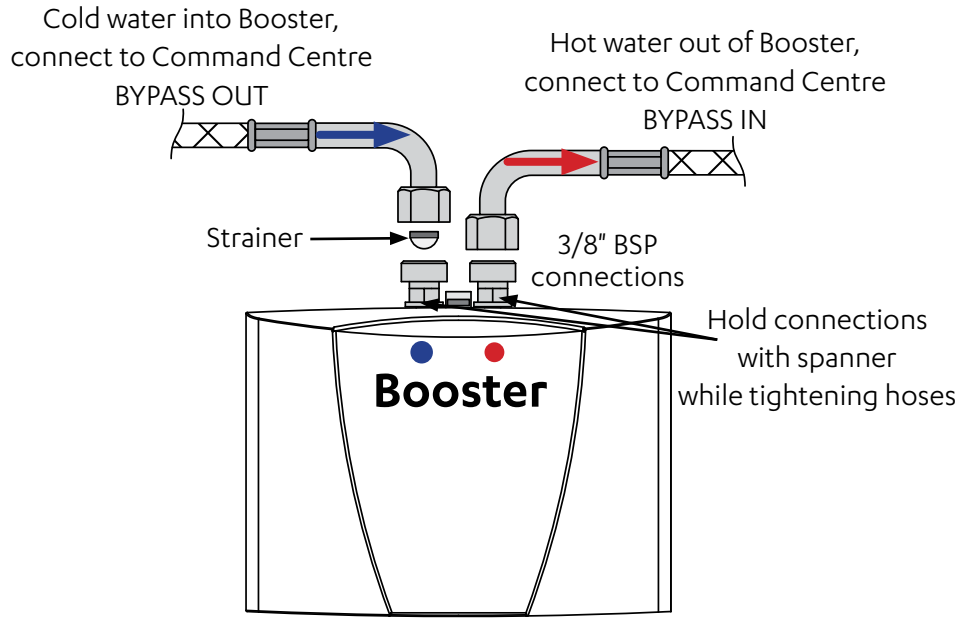


Note 1 This appliance is intended for use with the Zip HydroTap G5 Command Centre.
Note 2 Water connections must be pointing vertically upwards.
Note 3 The booster unit should be installed as close as possible to the Zip HydroTap G5 as the connection hoses cannot be lengthened.

Braided hose connections

- The cold water inlet (blue cap) and hot water outlet (red cap) are marked on the rating plate. Connect the braided hoses from the 'BYPASS OUT' fitting on the Command Centre to the water inlet of the booster (blue cap) and from the outlet of the booster (red cap) to the 'BYPASS IN' fitting on the Command Centre. Avoid exerting mechanical force on the booster. This can be achieved by using a spanner on the flats of the inlet and outlet connections when tightening the braided hose connectors.
- Do not over-tighten ! Tighten the braided hoses by hand, then turn a further 90° to 180° with a spanner.
- Once the water connections have been made, check for any leaks and rectify as necessary.

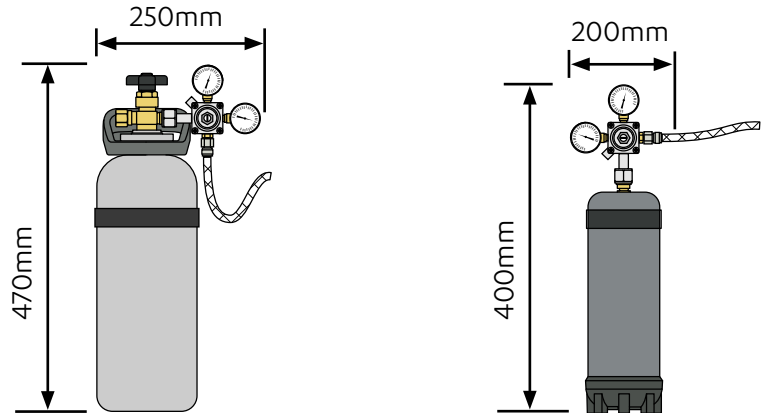
- **Do not over tighten hose connections.**
- **Braided hoses supplied cannot be lengthened.**



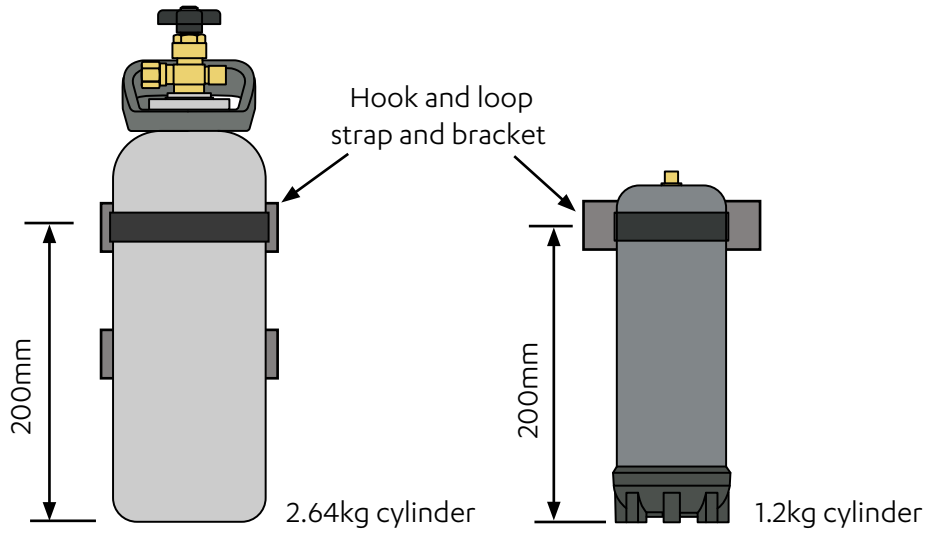
Be aware of the risks of hazards which could cause harm when handling compressed CO_2.
Read the safety warnings at the start of this instruction manual. Assess the risks before starting the installation.

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.



Fit the regulator and connect the gas hose

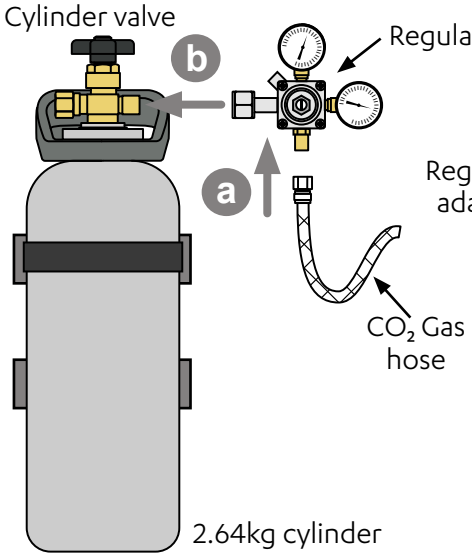
- Ensure all mating surfaces are clean.
- Turn the regulator OFF, (fully anticlockwise).
- Check the regulator and hose seals, inside the connectors.
- Carefully screw the regulator onto the cylinder connection.
- For the 1.2kg cylinder, insert and rotate the cylinder into the regulator until you feel the initial resistance to rotation, then turn a 1/2 turn further.
- Excessive tightening repeated several times could be detrimental to the life of the seal.
- For the 1.2kg cylinder use the adaptor supplied.
- Connect the gas hose to the regulator.
- Connect the gas hose to the Command Centre .

Do not proceed if the seals are damaged.**

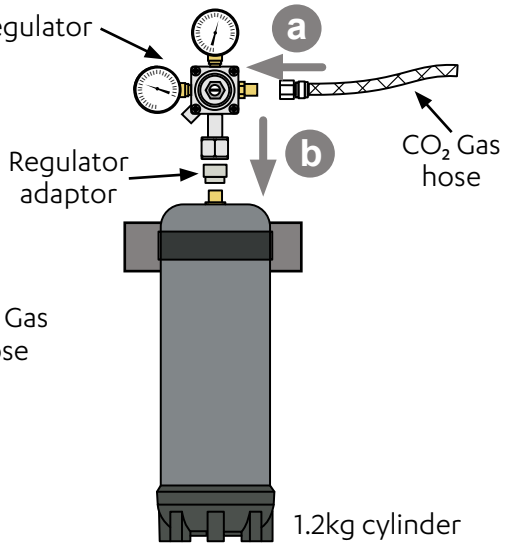
Take care not to cross thread the regulator. A cross threaded regulator poses a potential hazard.

**** A washer/seal kit (part no. 95267) is available for 1.2Kg CO_2 regulator , if required).**

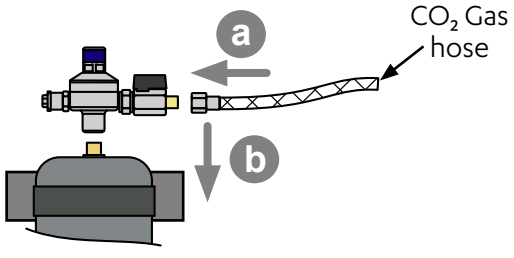
2.64kg cylinder



1.2kg cylinder

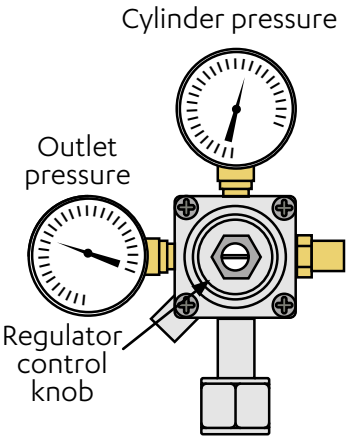


Non-adjustable 1.2kg cylinder regulator

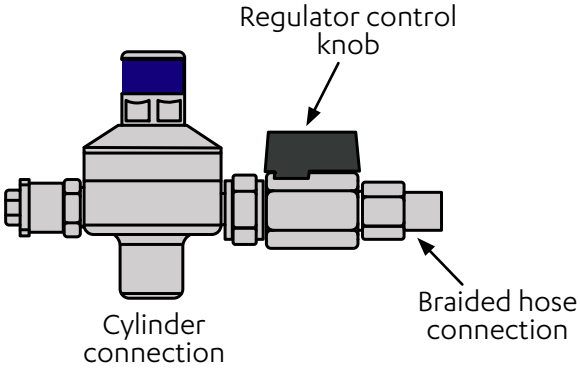


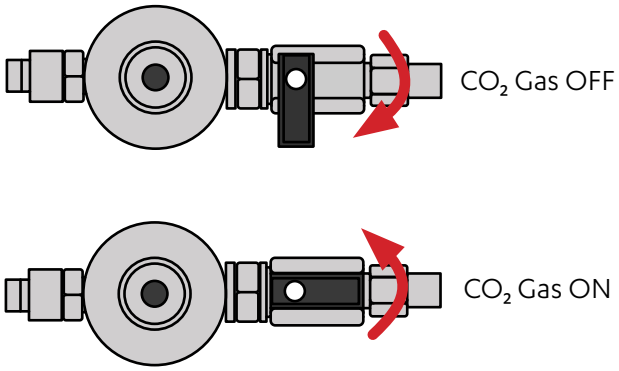
Adjust the Universal G5 regulator

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



1.2kg cylinder Non-adjustable regulator



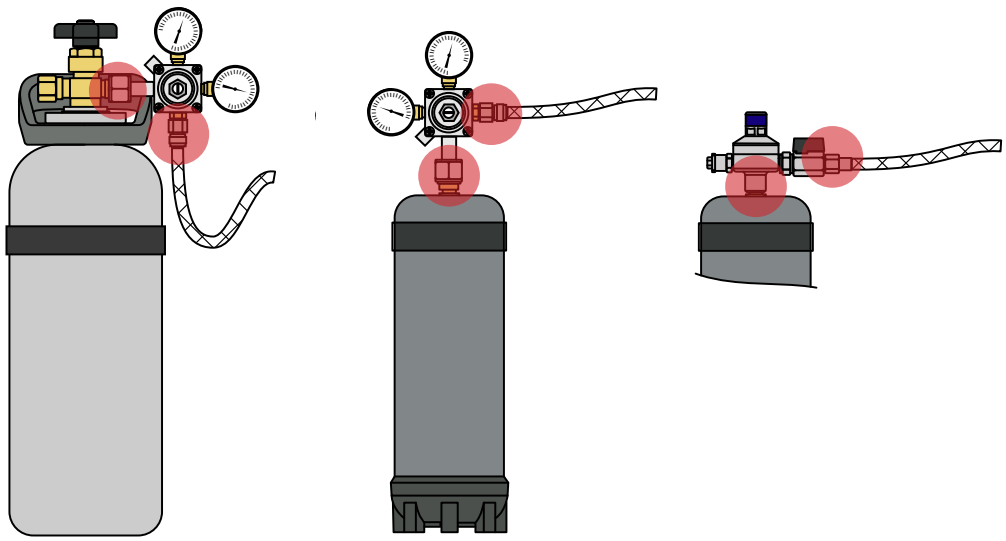


Test for leaks

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 sponge or 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.

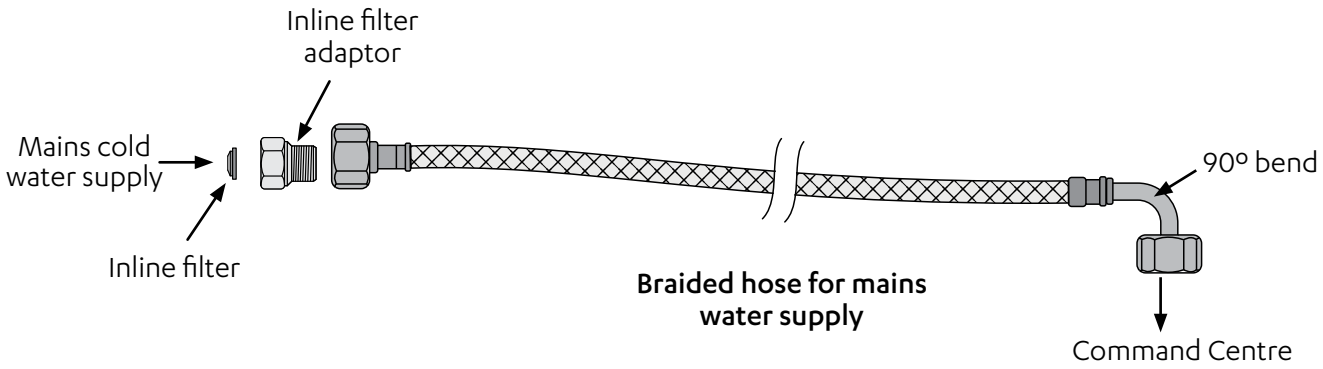
Test for leaks in these areas



Generic installation arrangement instructions

Read these instructions together with those supplied with individual components before commencing Command Centre installation,they apply to all installation arrangements.

- Install the mains water braided hoses to the Command Centre before locating in place. See below.
- Ambient mains water braided hose length is 750mm.
- Electrical power cable is 1.8m long.
- The Command Centre must be installed within the limits of the hose and cable lengths supplied.
- All silicon tubes / plastic pipes must be cut to size. They must have a constant fall back to the Command Centre.
- Isolation valves are not supplied.

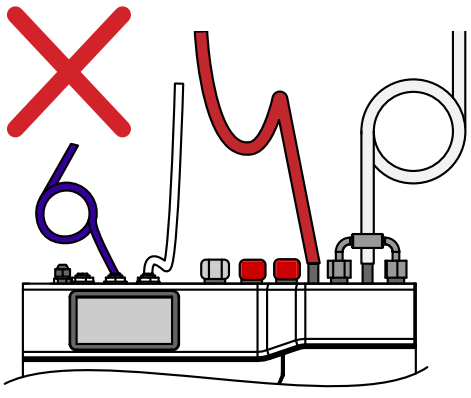


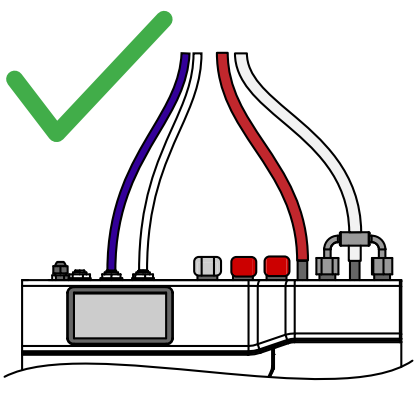
Tubes and pipes

- Take care to install correctly. No kinks, sags, pinches or loops.

Tips for 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.
- Tubes and pipes 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 tubes and pipes must not be under tension when installed.



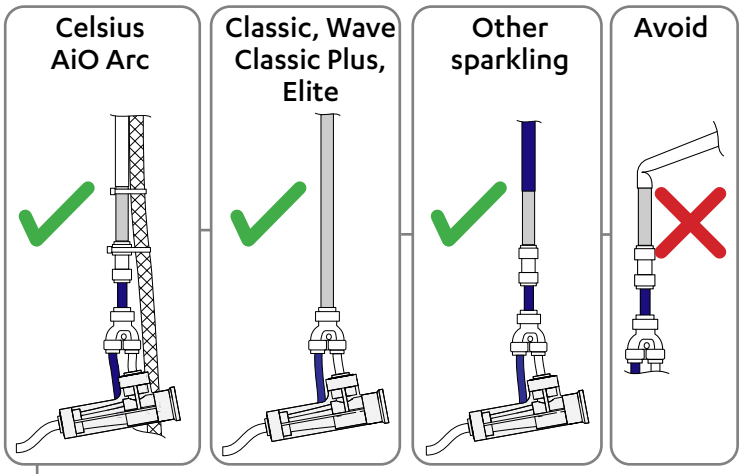


Position of carbonation flow valve (sparkling models)

For optimal Sparkling Water from your HydroTap, follow these directions to position the carbonation flow valve between the HydroTap Command Centre and the dispensing tap.

It is essential to adjust the carbonation valve for optimal sparkling water dispense, see page 52.

- Correct positioning and adjustment is essential to good sparkling water performance.
- It is important to position the carbonation flow valve as close to the tap as possible.
- Use the diagrams as a guide.
- For the Celsius AiO Arc, the silicone tubes can be easily deformed, cable-tie the chilled tube assembly to an adjacent braided hose to avoid kinks and loops (as shown).



White tube to SPARKLING outlet of Command Centre

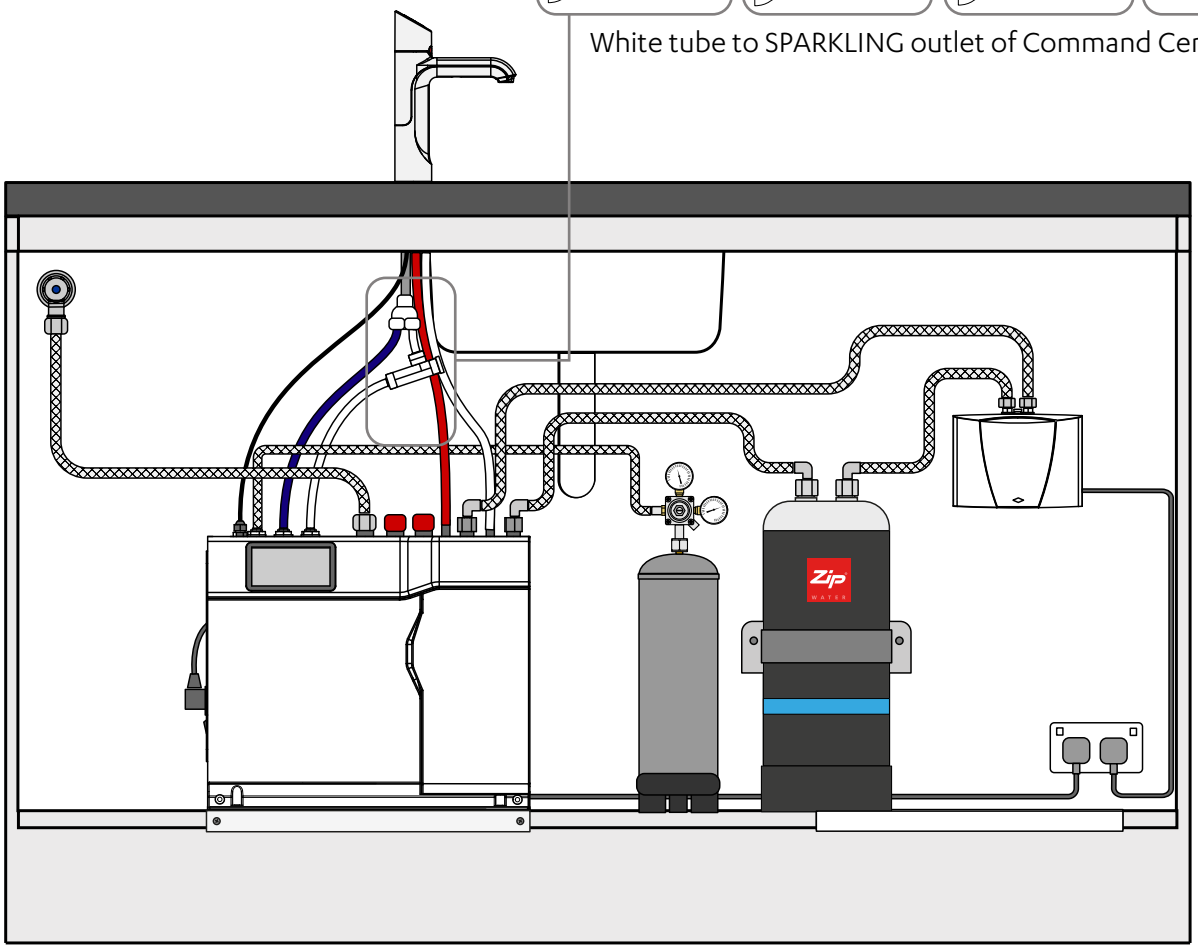
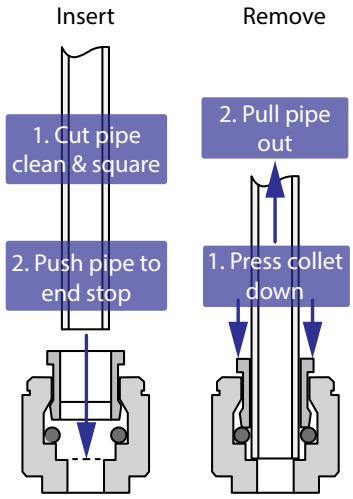


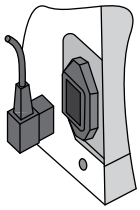
Diagram for illustrative purposes only.
Hoses are not shown to scale.

John Guest pipe and fittings

Take care to use correctly, see below :



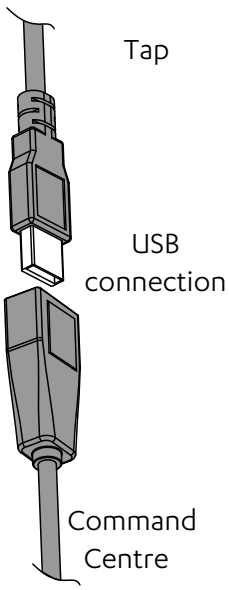
Mains power cable



Do not connect to the mains socket until commissioning

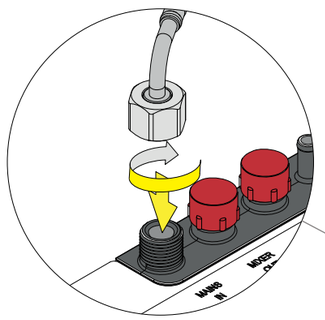
USB

Connect Command Centre to HydroTap.

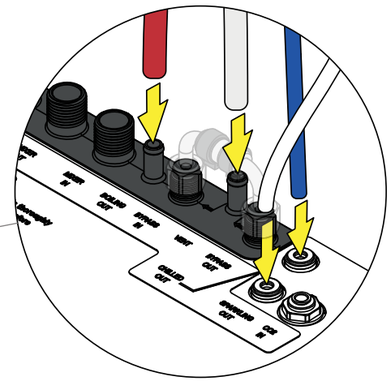


BCS Home, BCS20 models, General layout

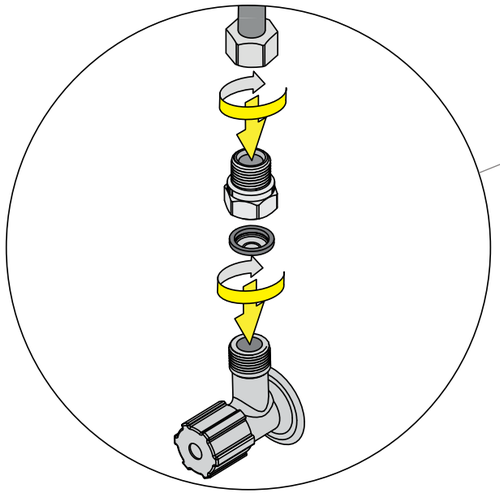
1. Command Centre
2. Mains electrical power connector
3. *CO_2 cylinder
4. *CO_2 regulator
5. Tap - Command Centre USB
6. Carbonation valve
7. Tap
8. Mains water supply



Mains braided hose - Command Centre manifold

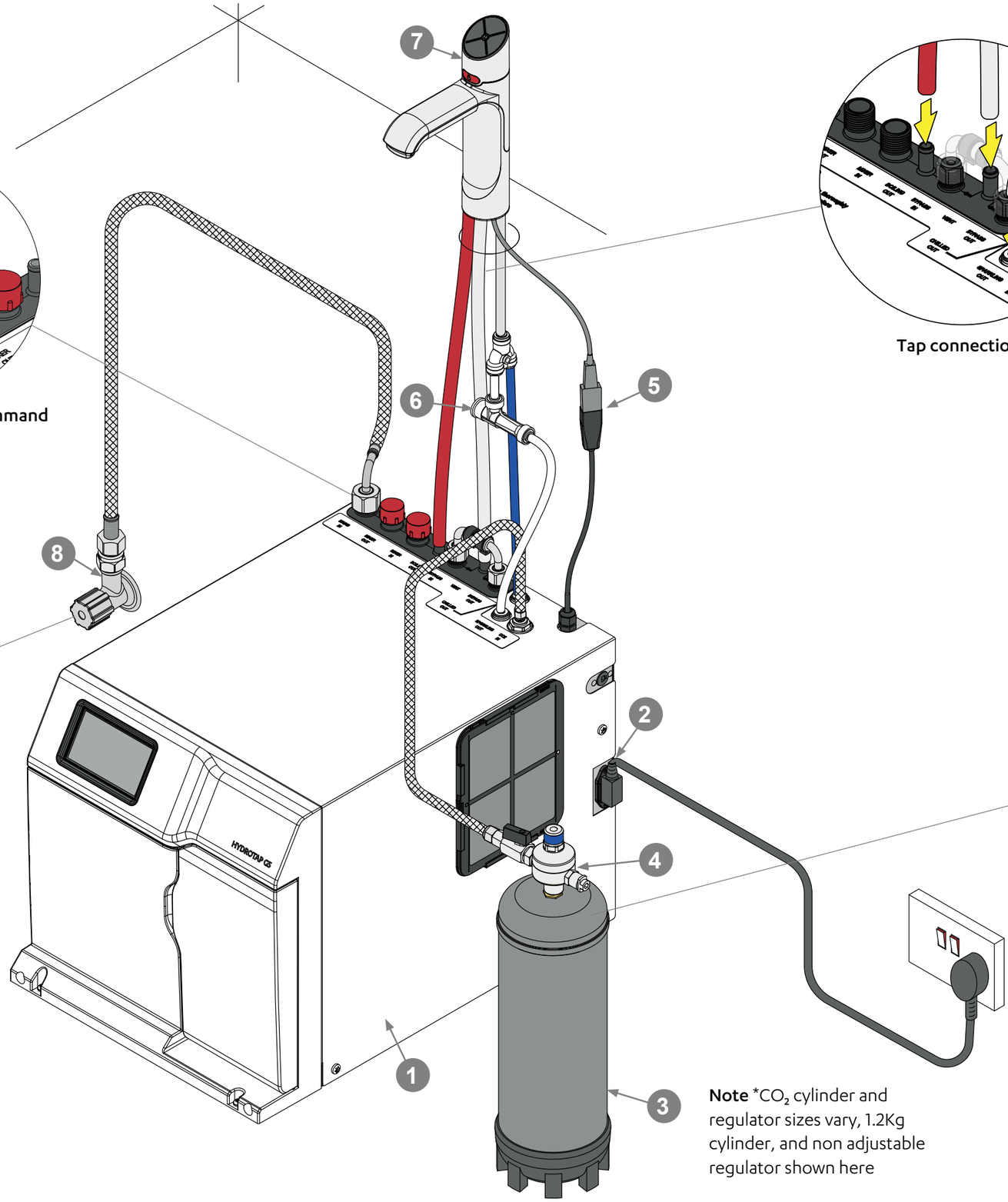


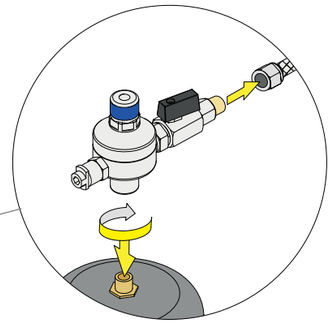
Tap connections



Mains braided hose - Command Centre Water supply connection

For UK, use install rail



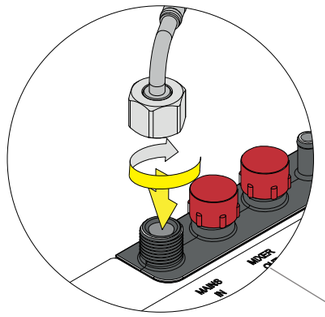


CO_2 regulator

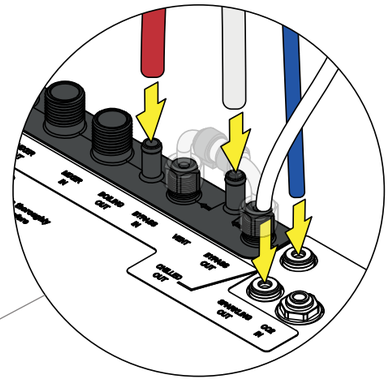
Note *CO_2 cylinder and regulator sizes vary, 1.2Kg cylinder, and non adjustable regulator shown here

BCS20 H models, General layout

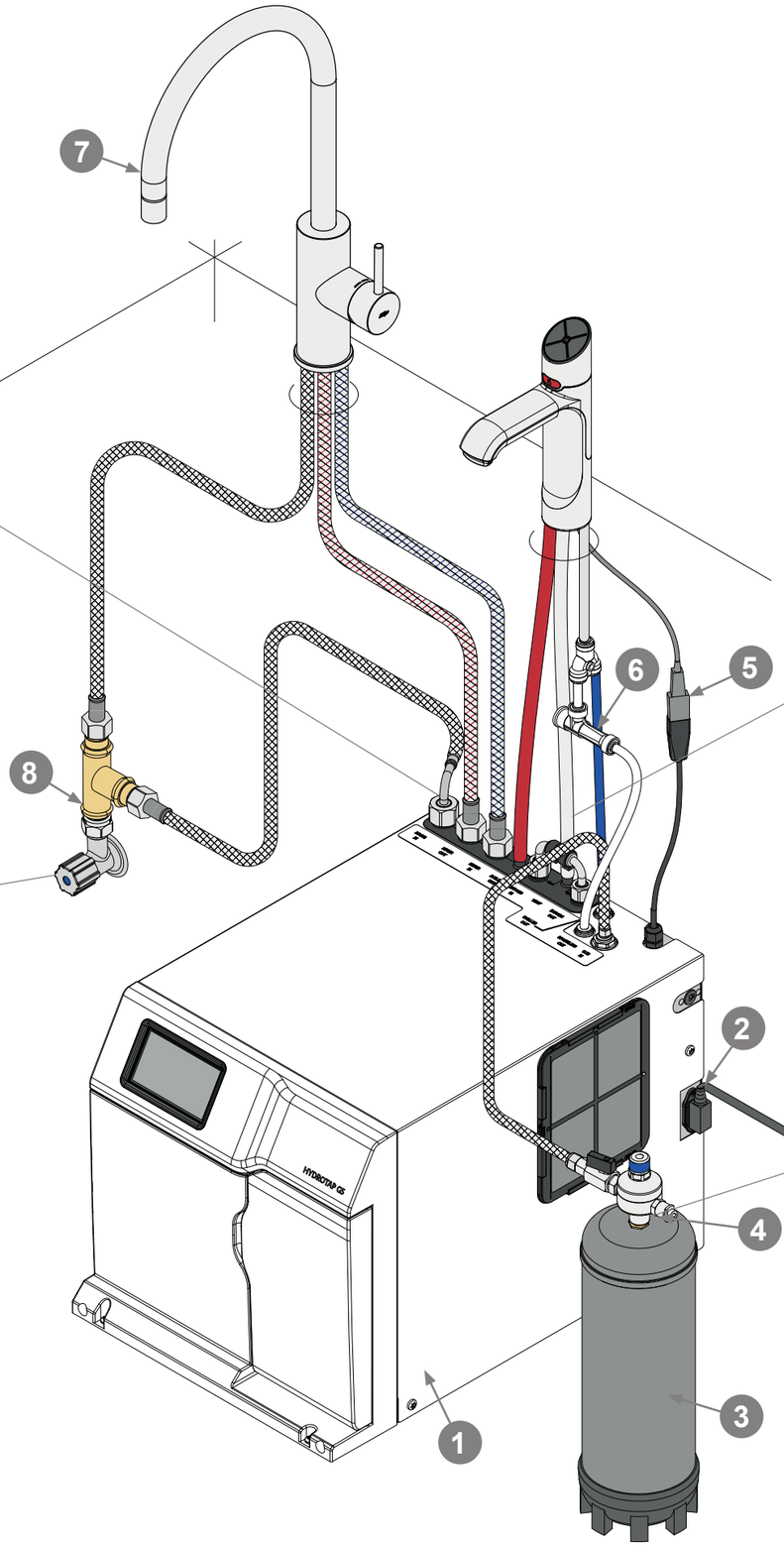
1. Command Centre
2. Mains electrical power connector
3. *CO_2 cylinder
4. *CO_2 regulator
5. Tap - Command Centre USB
6. Carbonation valve
7. Vented mixer tap
8. Mains water supply

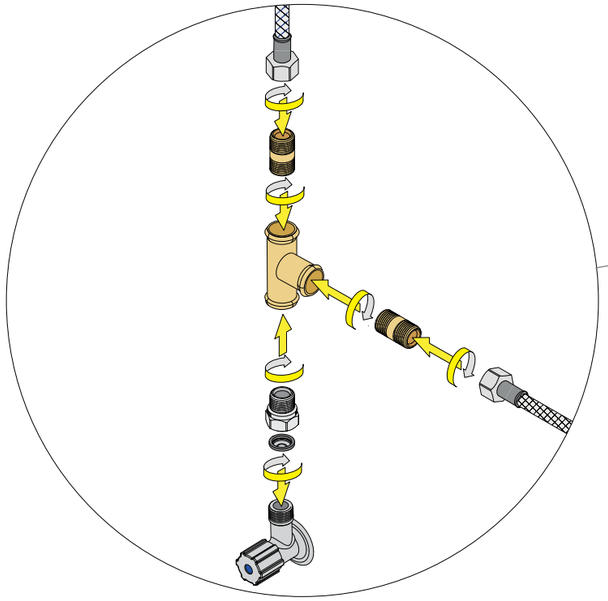


Mains braided hose - Command Centre manifold



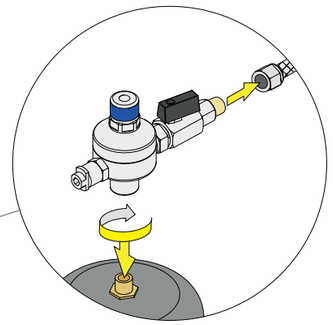
Tap connections





Mains braided hose - Command Centre Water supply connection

For UK, use install rail

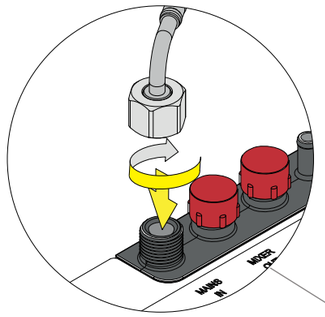


CO_2 regulator

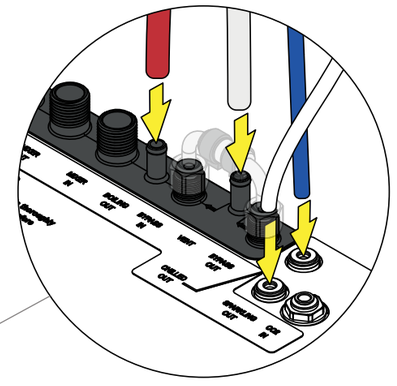
Note *CO_2 cylinder and regulator sizes vary, 1.2Kg cylinder, and non adjustable regulator shown here

BCS Home, BCS20 with Celsius Plus All in One Pull Out models, General layout

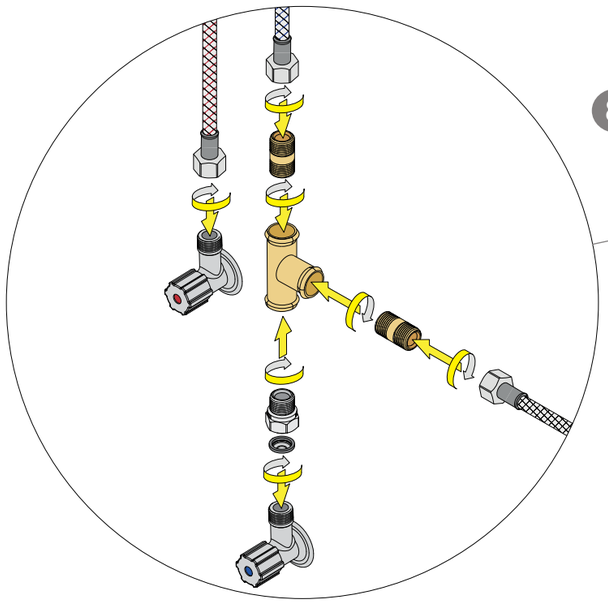
1. Command Centre
2. Mains electrical power connector
3. *CO_2 cylinder
4. *CO_2 regulator
5. Tap - Command Centre USB
6. Carbonation valve
7. Tap
8. Mains water supply
9. Hose management system



Mains braided hose - Command Centre manifold

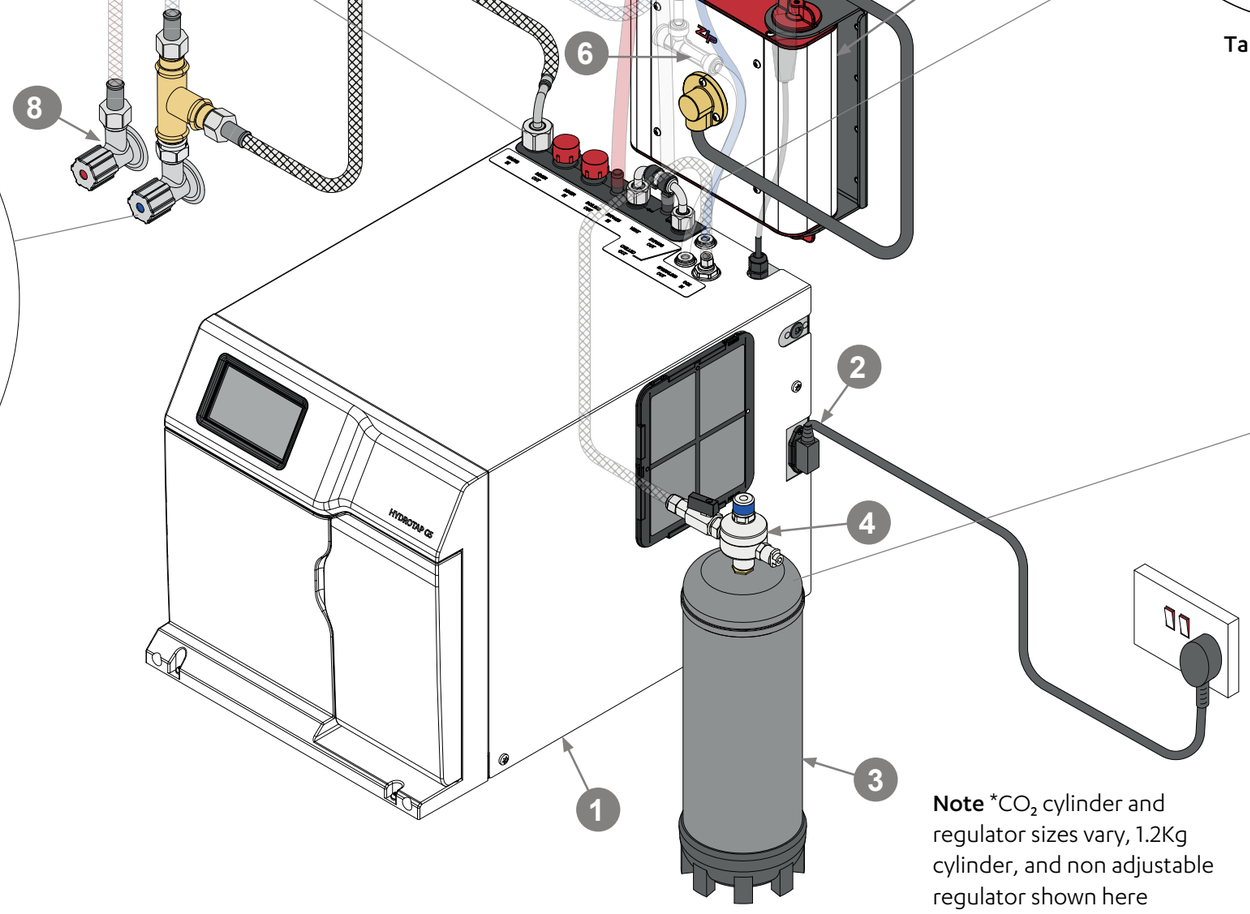


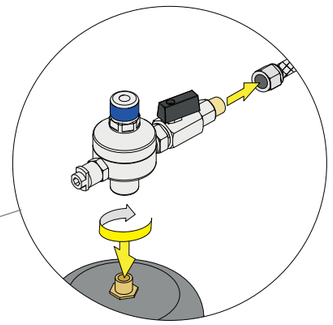
Tap connections



Mains braided hose - Command Centre Water supply connection

⚠ For UK, use install rail



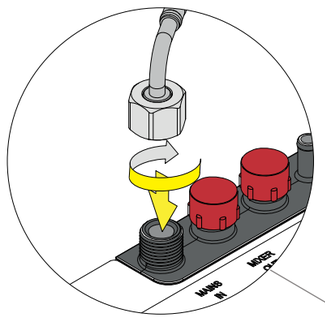


CO_2 regulator

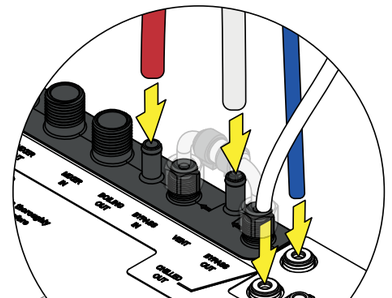
Note *CO_2 cylinder and regulator sizes vary, 1.2Kg cylinder, and non adjustable regulator shown here

BCS Home, BCS20 models with Celsius Plus All in One tap, General layout

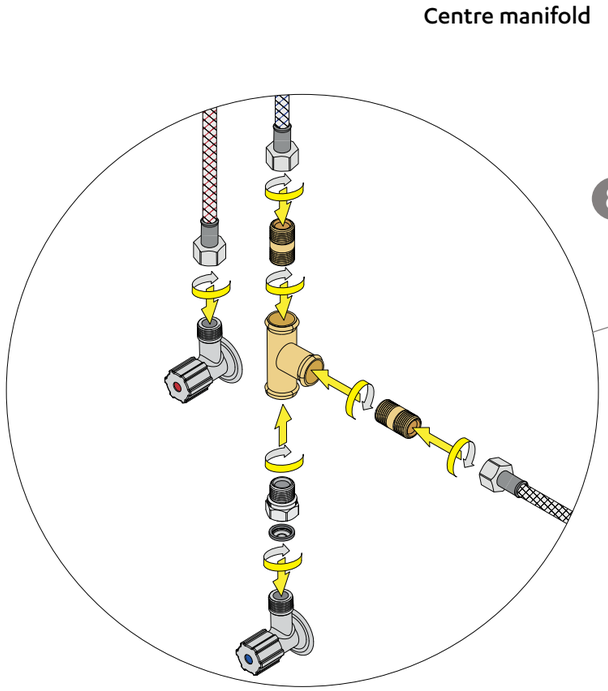
1. Command Centre
2. Mains electrical power connector
3. *CO_2 cylinder
4. *CO_2 regulator
5. Tap - Command Centre USB
6. Carbonation valve
7. Tap
8. Mains water supply



Mains braided hose - Command Centre manifold



Tap connections



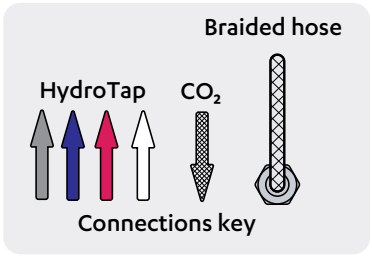
Mains braided hose - Command Centre Water supply connection

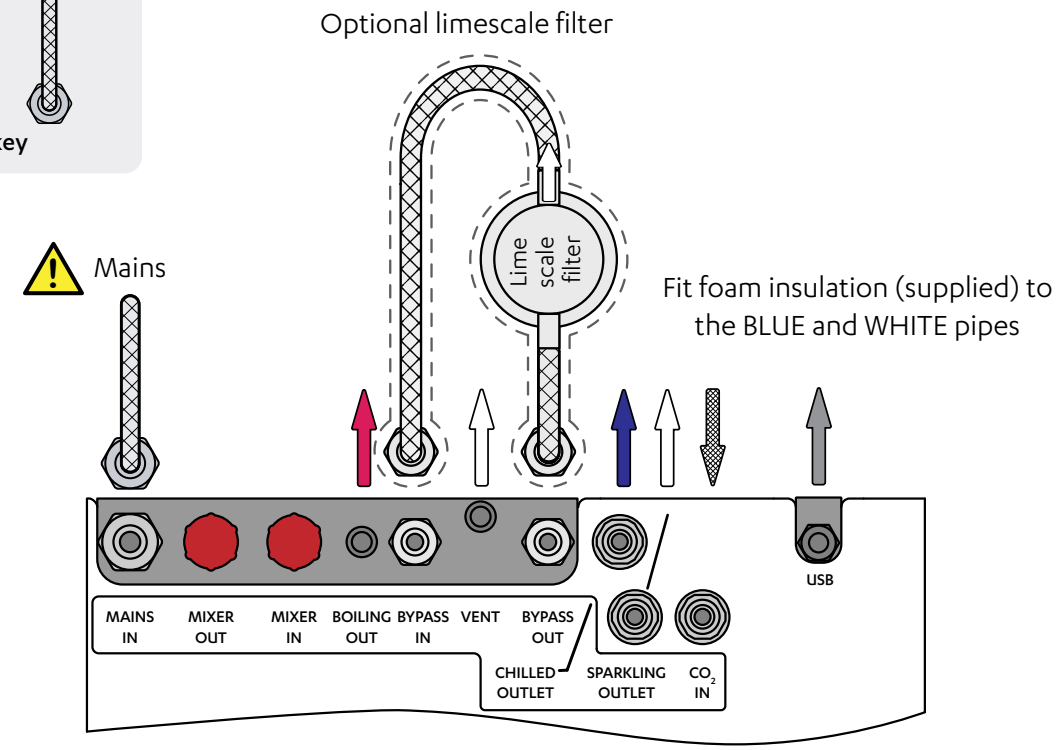
For UK, use install rail

CO_2 regulator

Note *CO_2 cylinder and regulator sizes vary, 1.2Kg cylinder, and non adjustable regulator shown here

BCS Home, BCS20 HydroTap G5 models
Command Centre connections





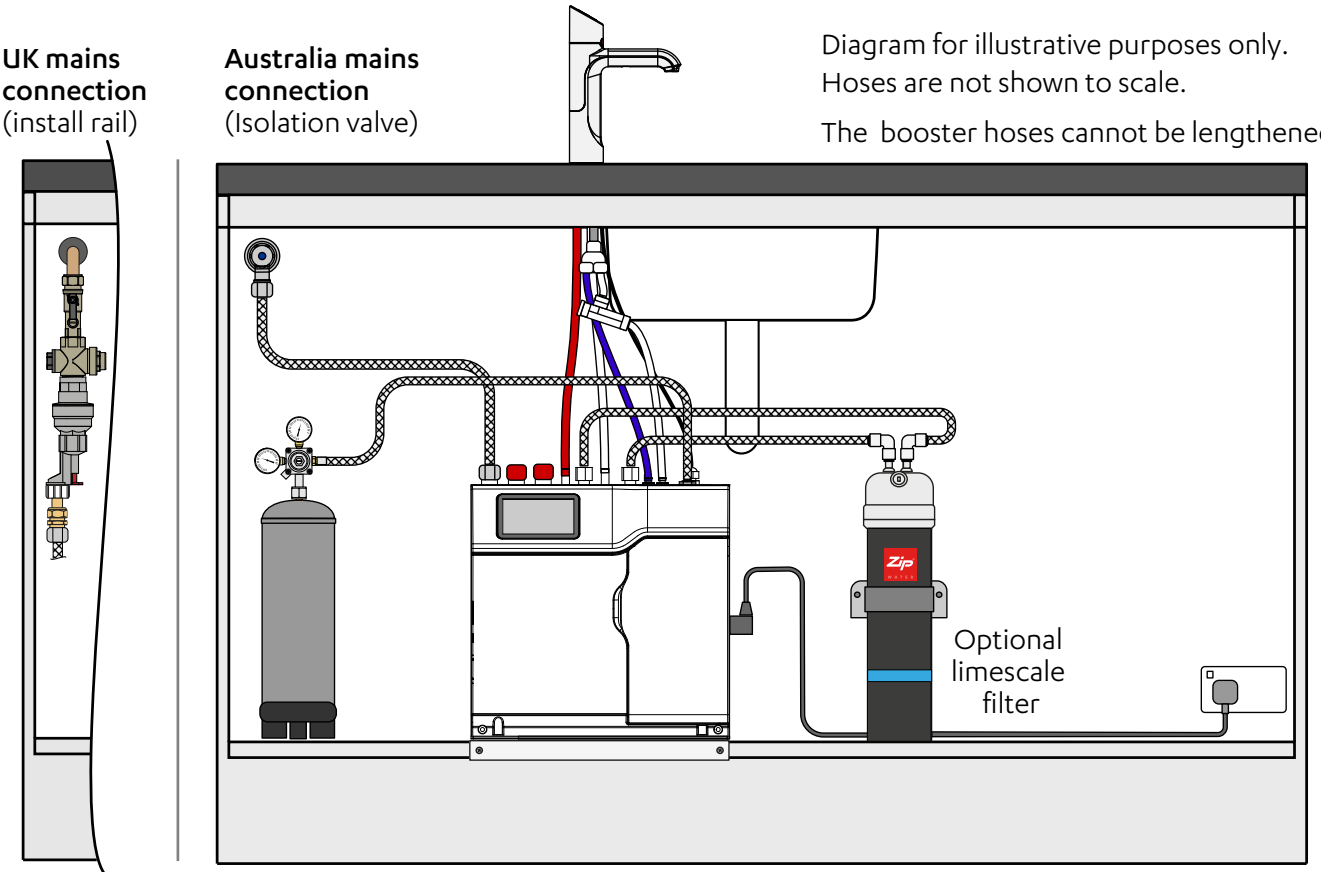
Example Installations

UK mains connection (install rail)

Australia mains connection (Isolation valve)

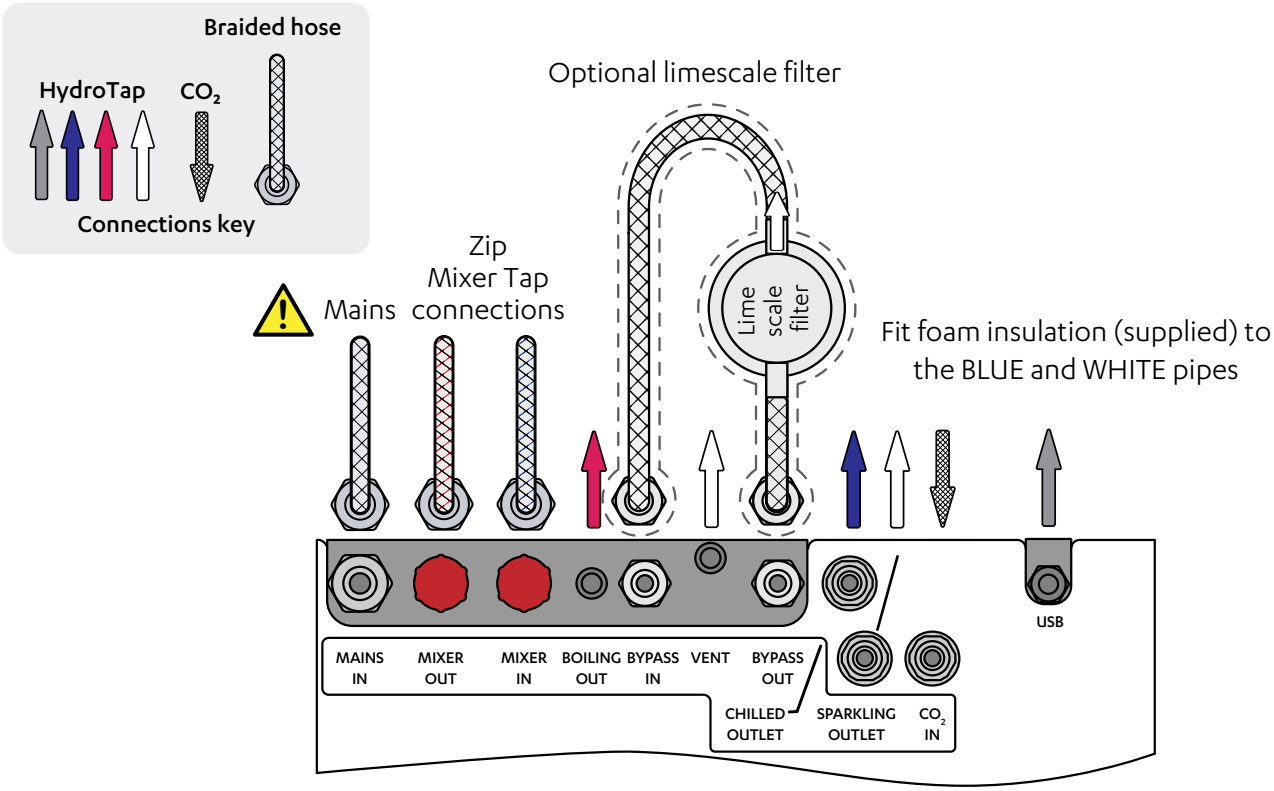
Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.



BCS20 H HydroTap and vented mixer tap combinations

Command Centre connections



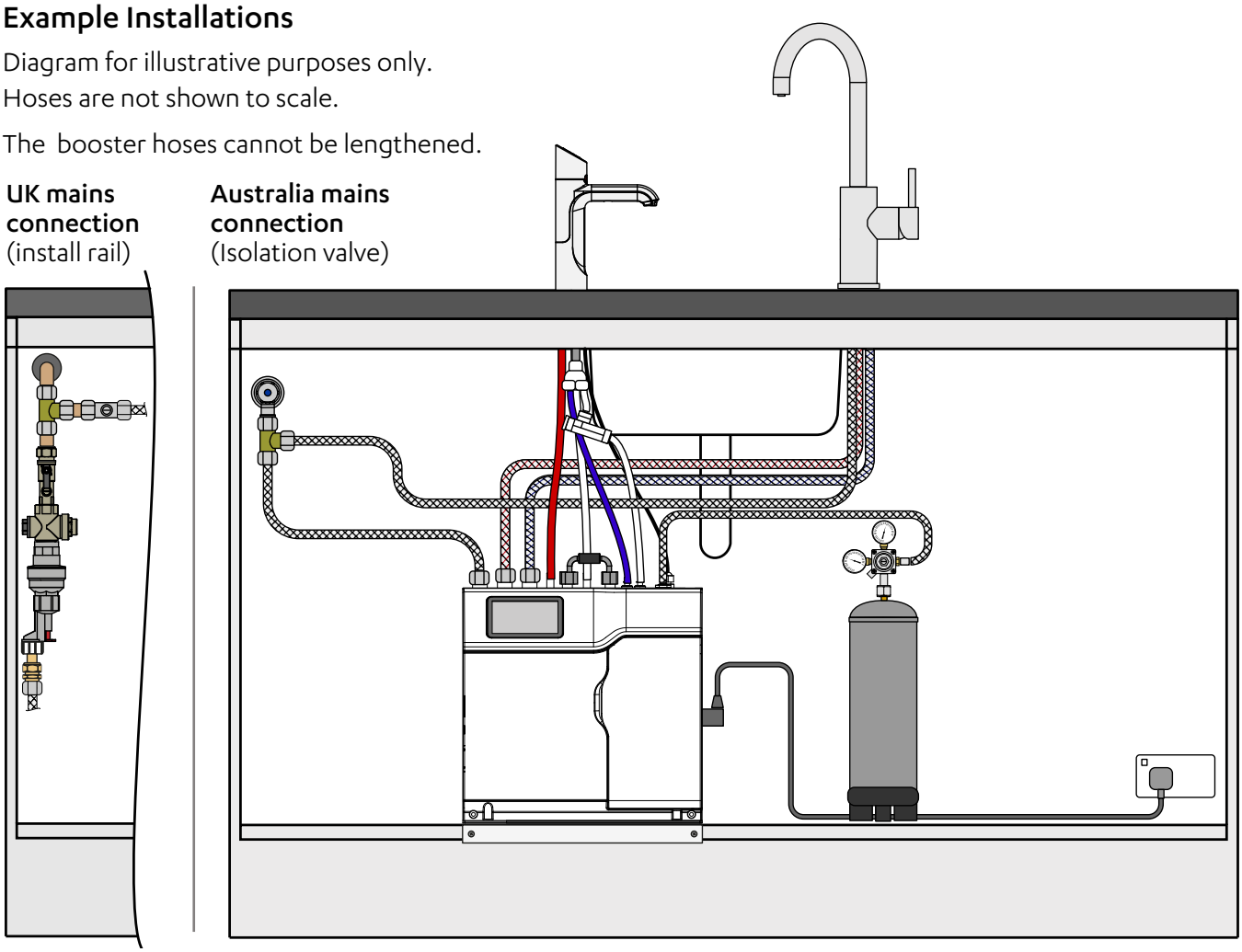
Example Installations

Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.

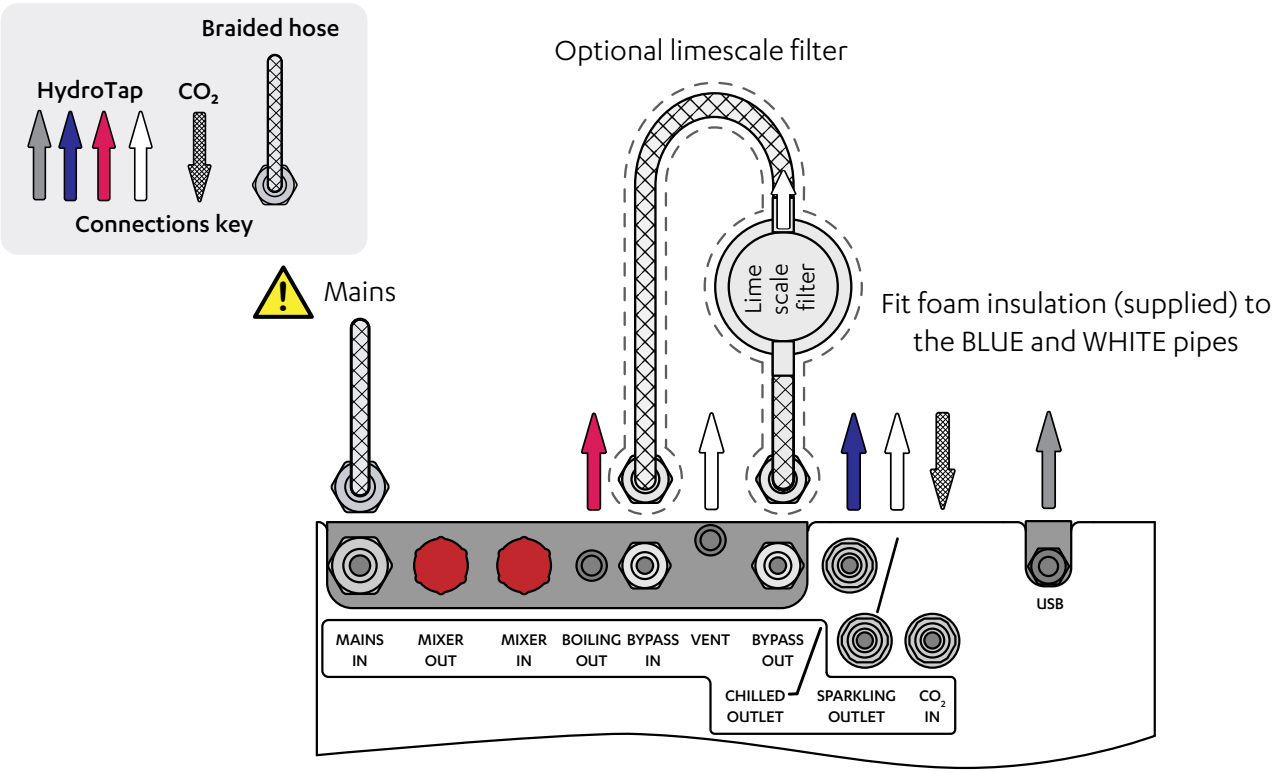
UK mains connection
(install rail)

Australia mains connection
(Isolation valve)



BCS Home, BCS20 All-In-One 'Mains' tap

Command Centre connections

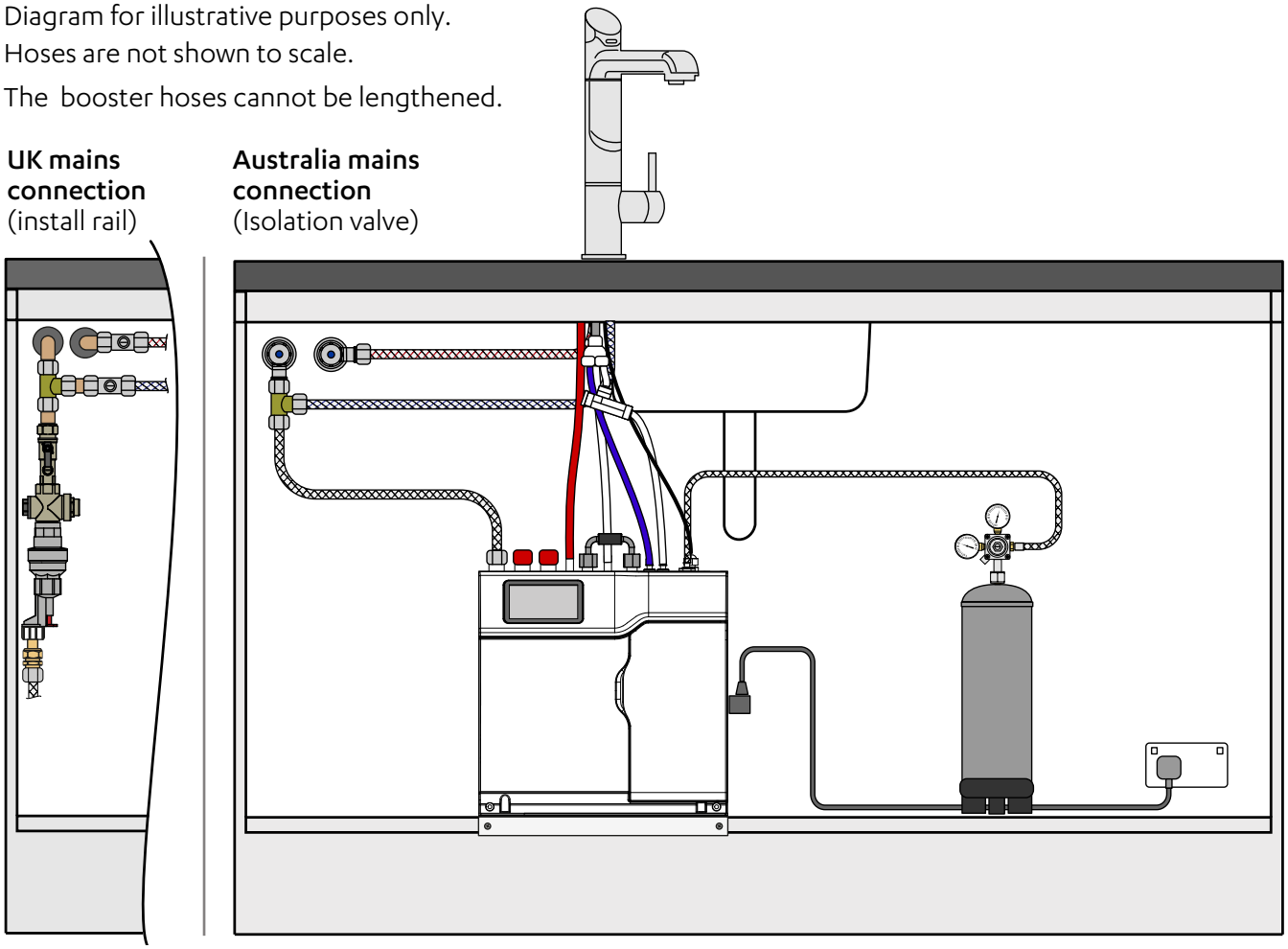


Example installation

Diagram for illustrative purposes only.
Hoses are not shown to scale.
The booster hoses cannot be lengthened.

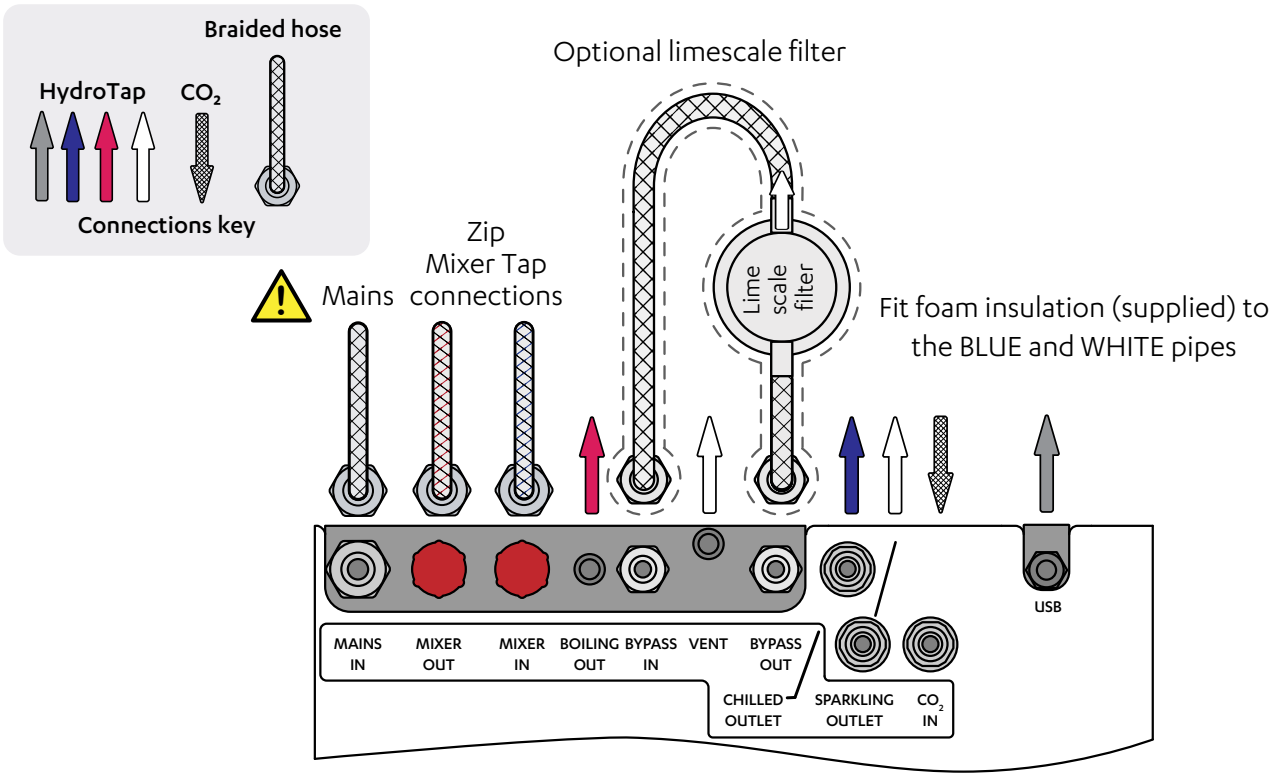
UK mains connection (install rail)

Australia mains connection (Isolation valve)



BCS20 H All-In-One 'Vented' tap

Command Centre connections



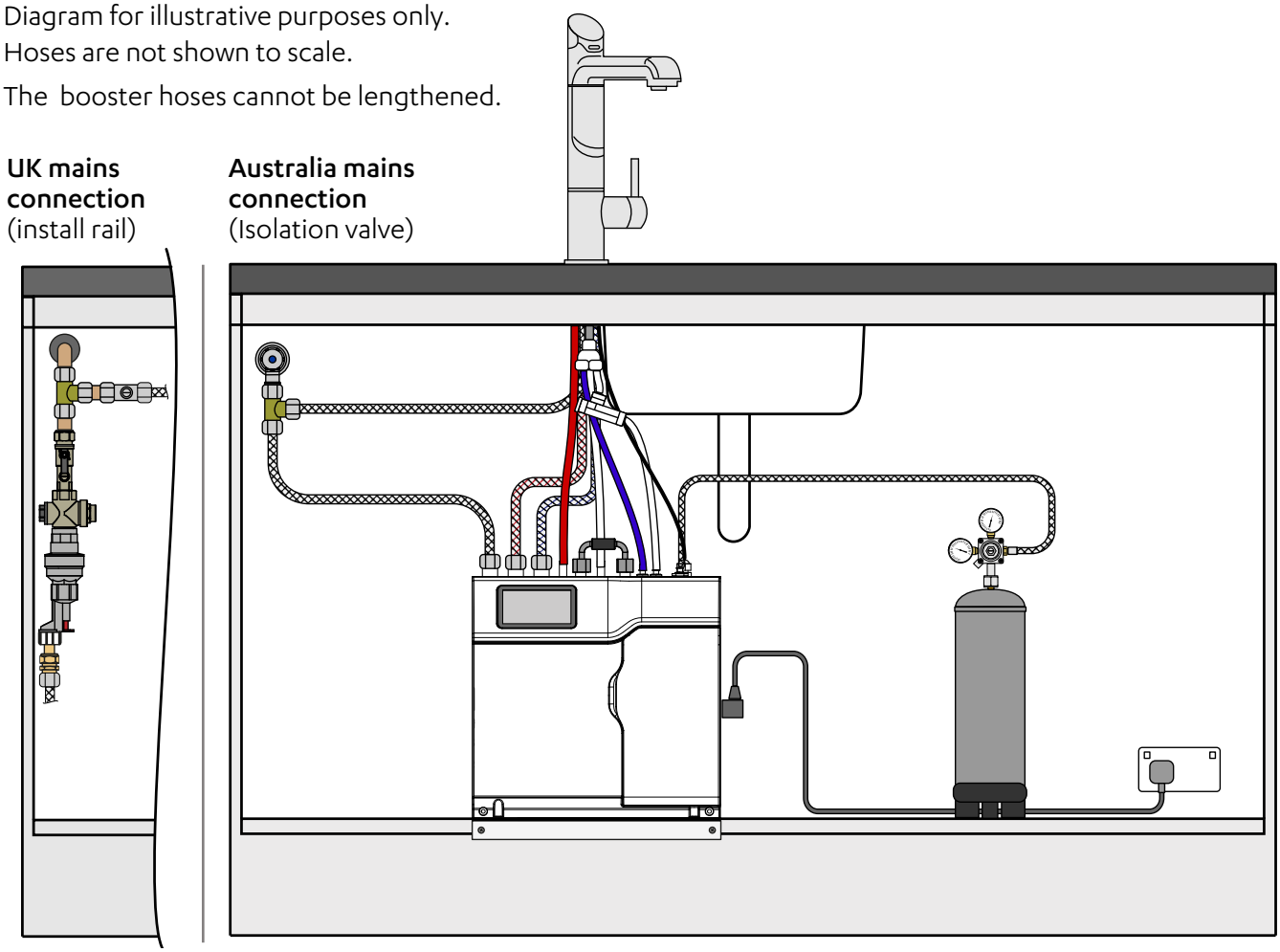
Example installation

Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.

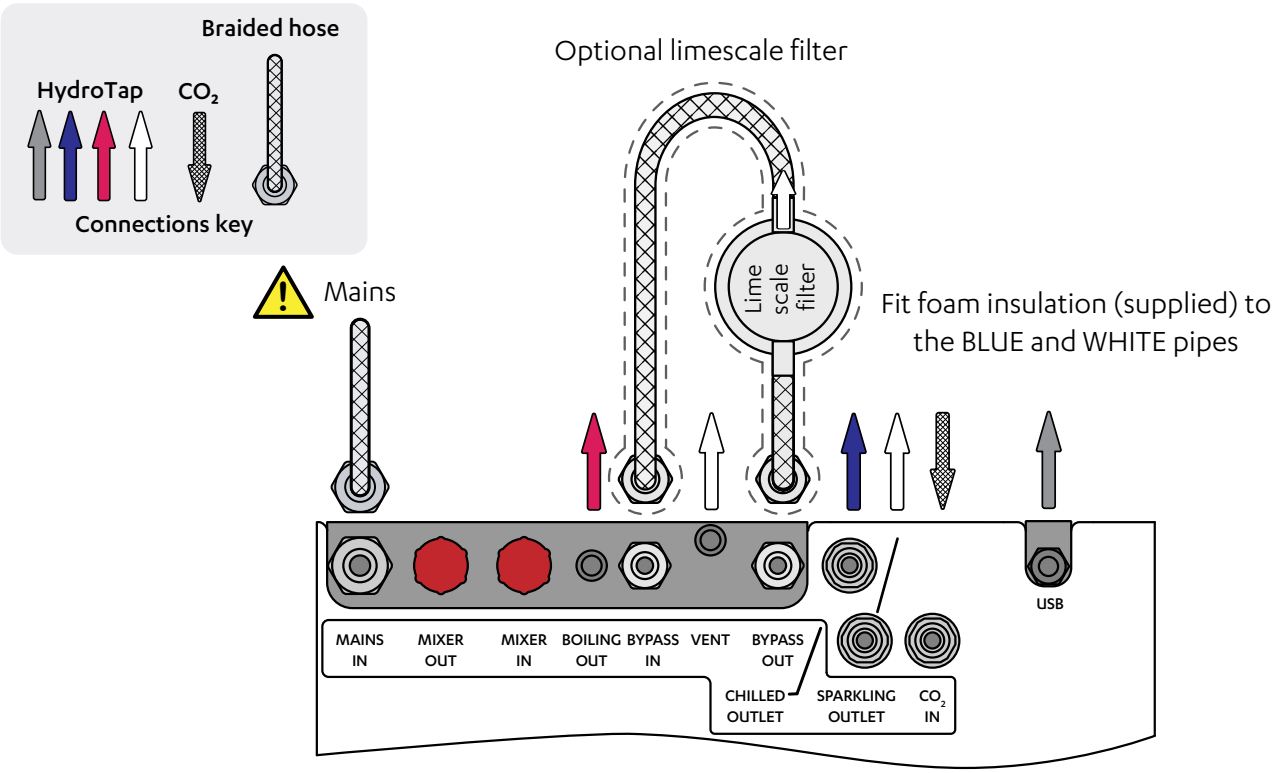
UK mains connection
(install rail)

Australia mains connection
(Isolation valve)



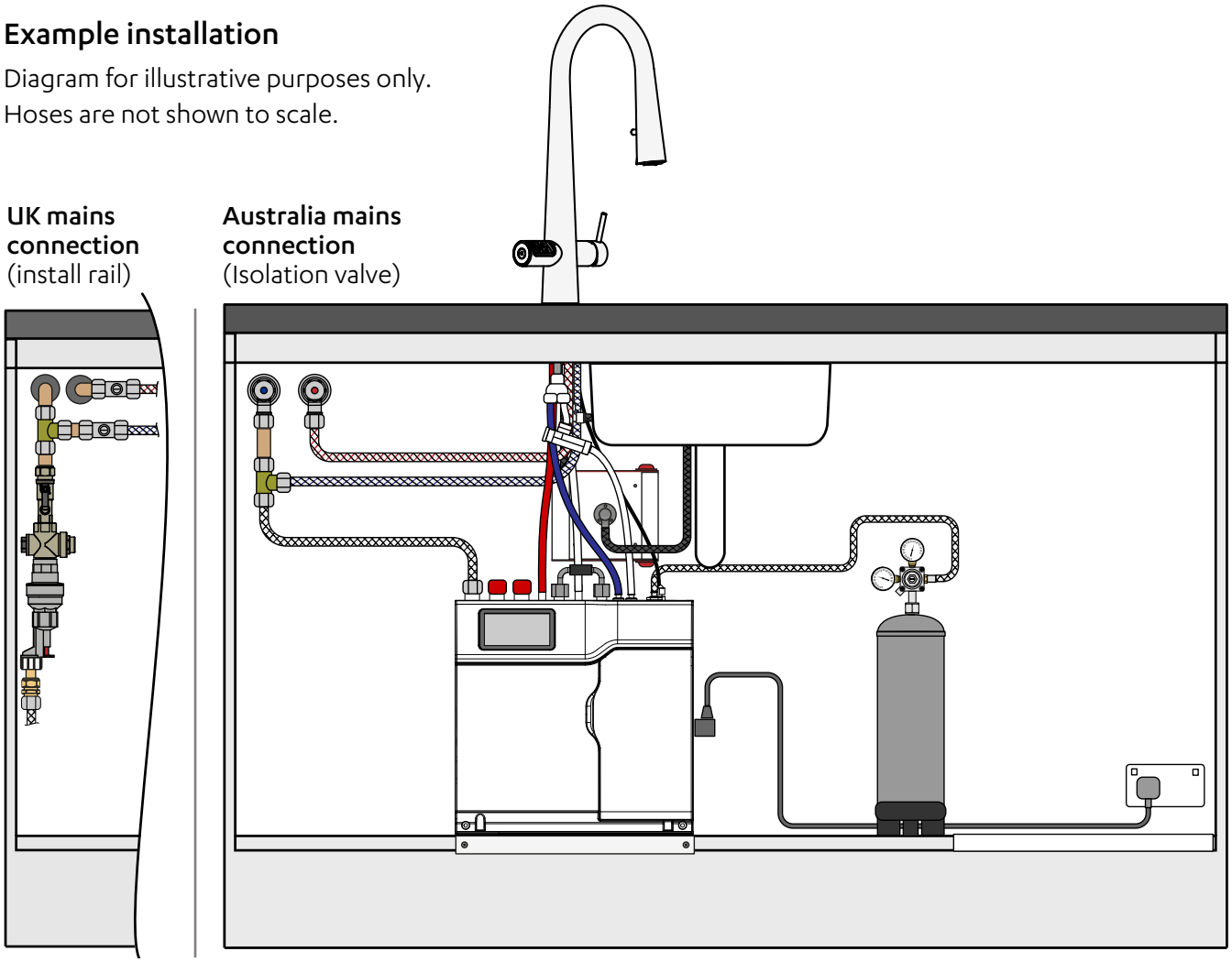
BCS Home, BCS20 All-in-One Plus Pull-Out tap

Command Centre connections



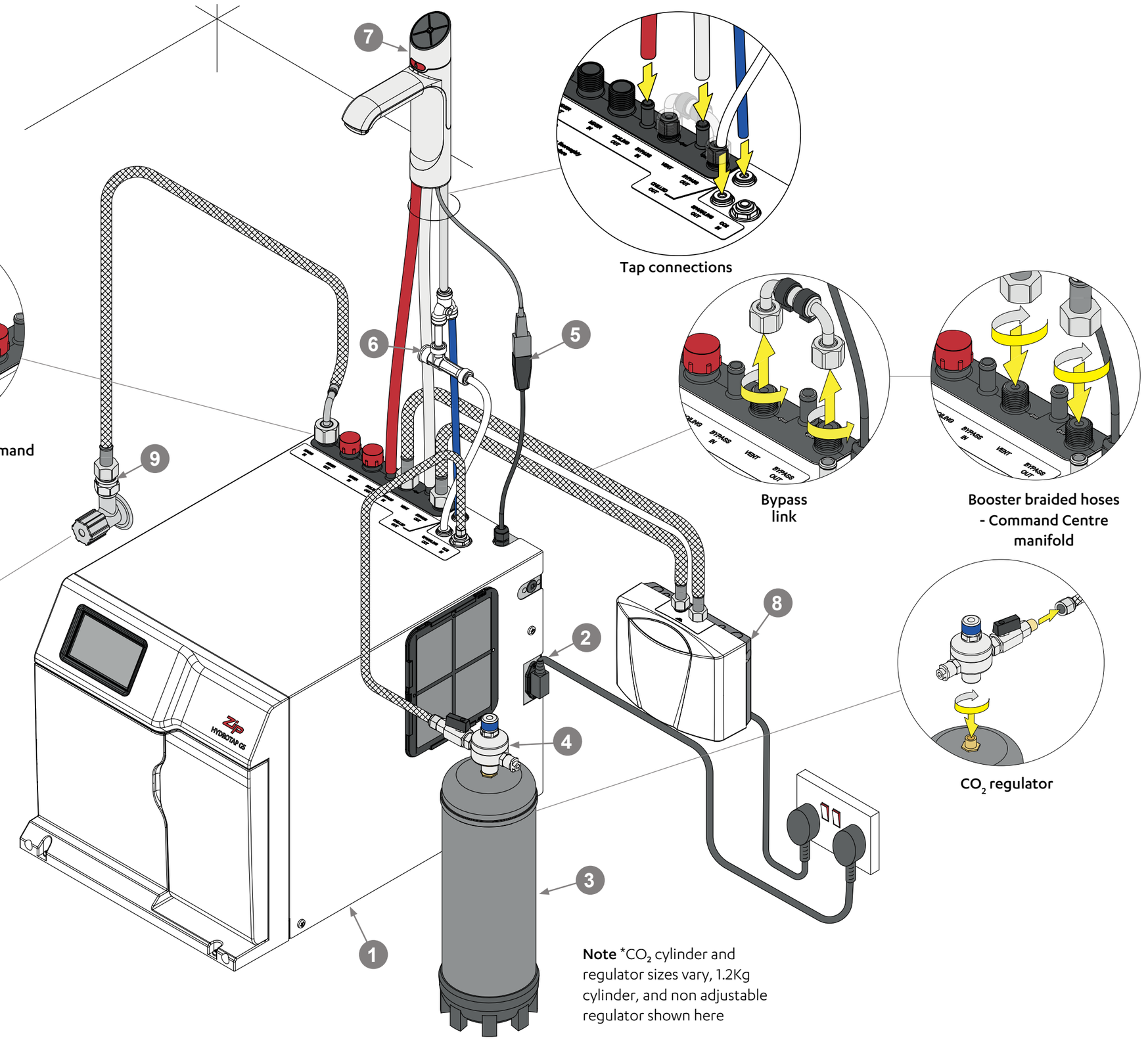
Example installation

Diagram for illustrative purposes only.
Hoses are not shown to scale.

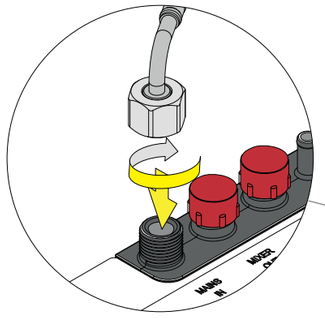


BCS30 models, General layout

1. Command Centre
2. Mains electrical power connector
3. *CO_2 cylinder
4. *CO_2 regulator
5. Tap - Command Centre USB
6. Carbonation valve
7. Tap
8. Booster
9. Mains water supply



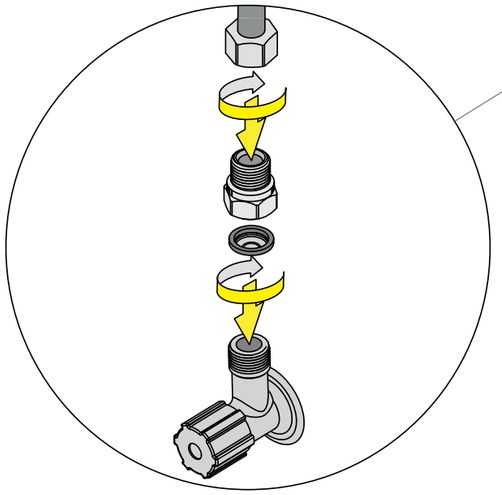
Tap connections



Mains braided hose - Command Centre manifold

Bypass link

Booster braided hoses - Command Centre manifold



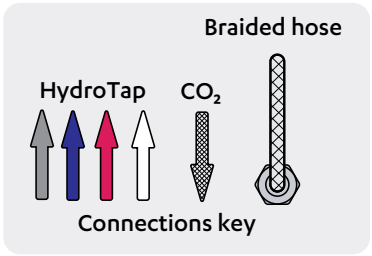
Mains braided hose - Command Centre Water supply connection

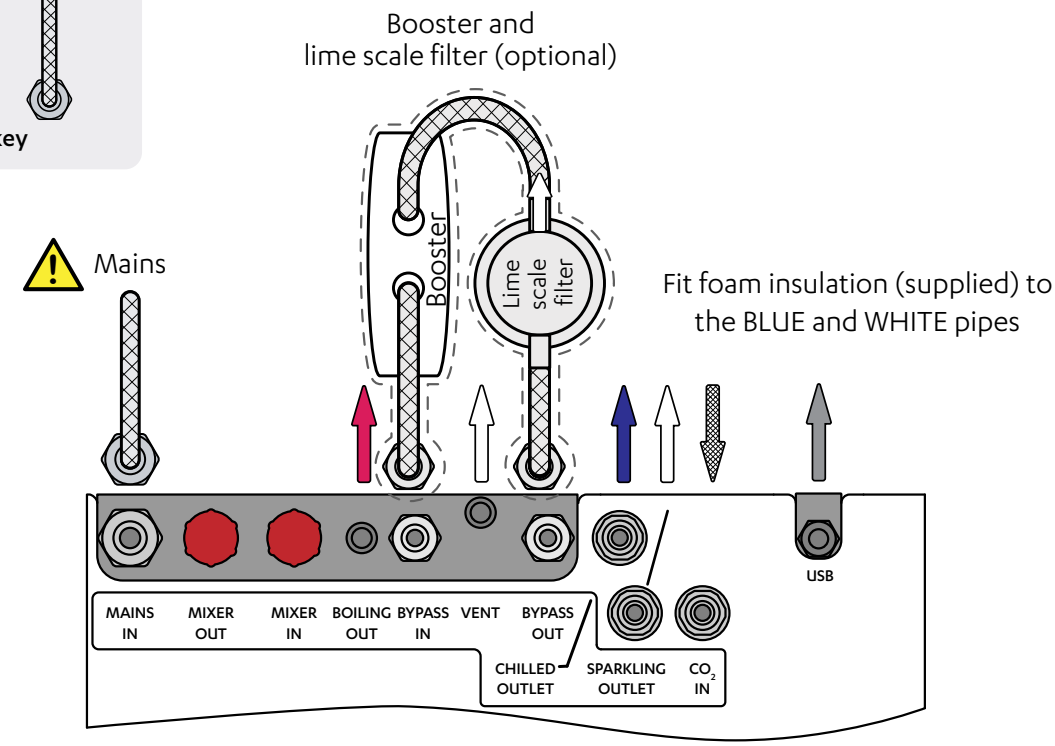
CO_2 regulator

For UK, use install rail

Note *CO_2 cylinder and regulator sizes vary, 1.2Kg cylinder, and non adjustable regulator shown here

BCS30 HydroTap G5 models
Command Centre connections





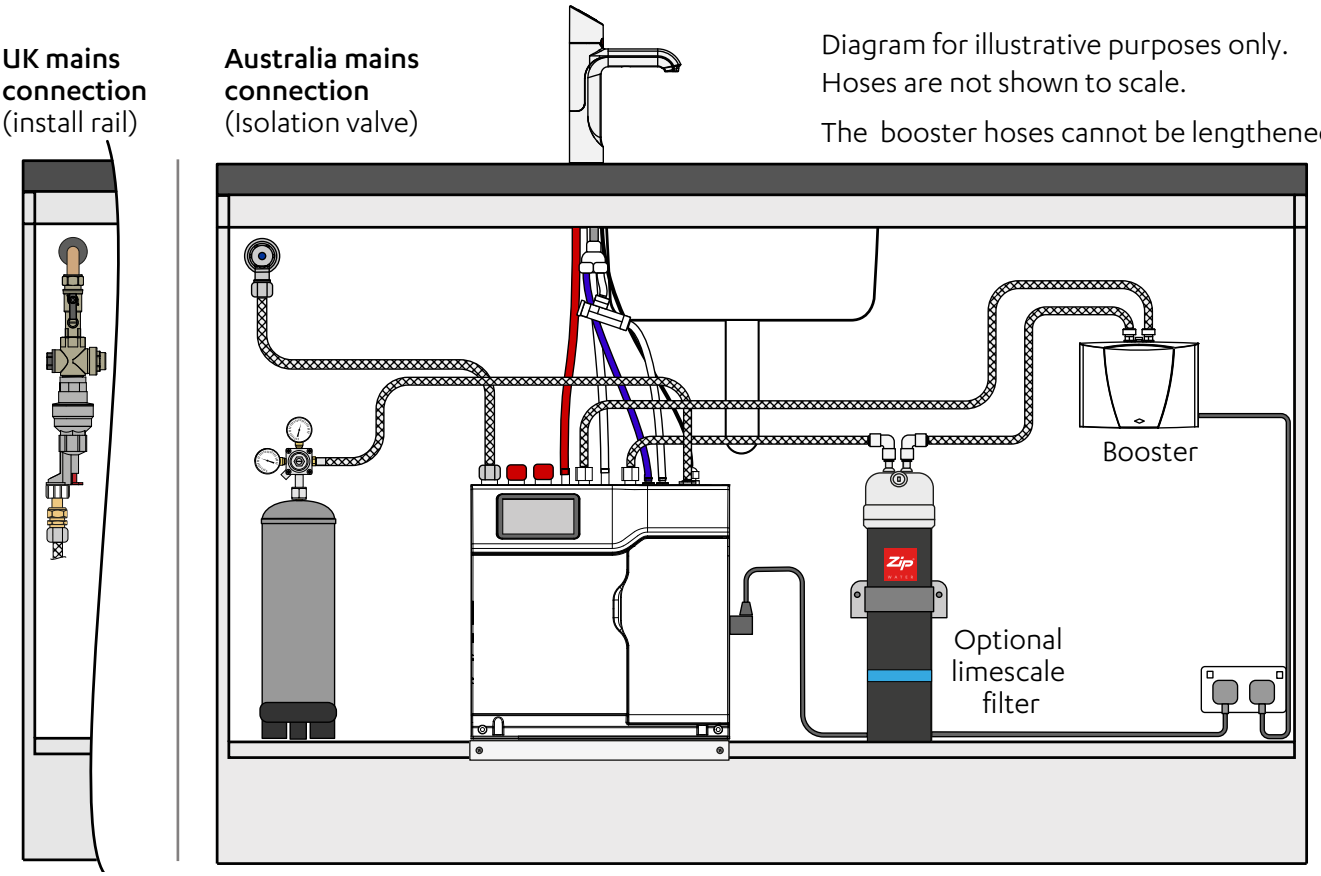
Example Installations

UK mains connection
(install rail)

Australia mains connection
(Isolation valve)

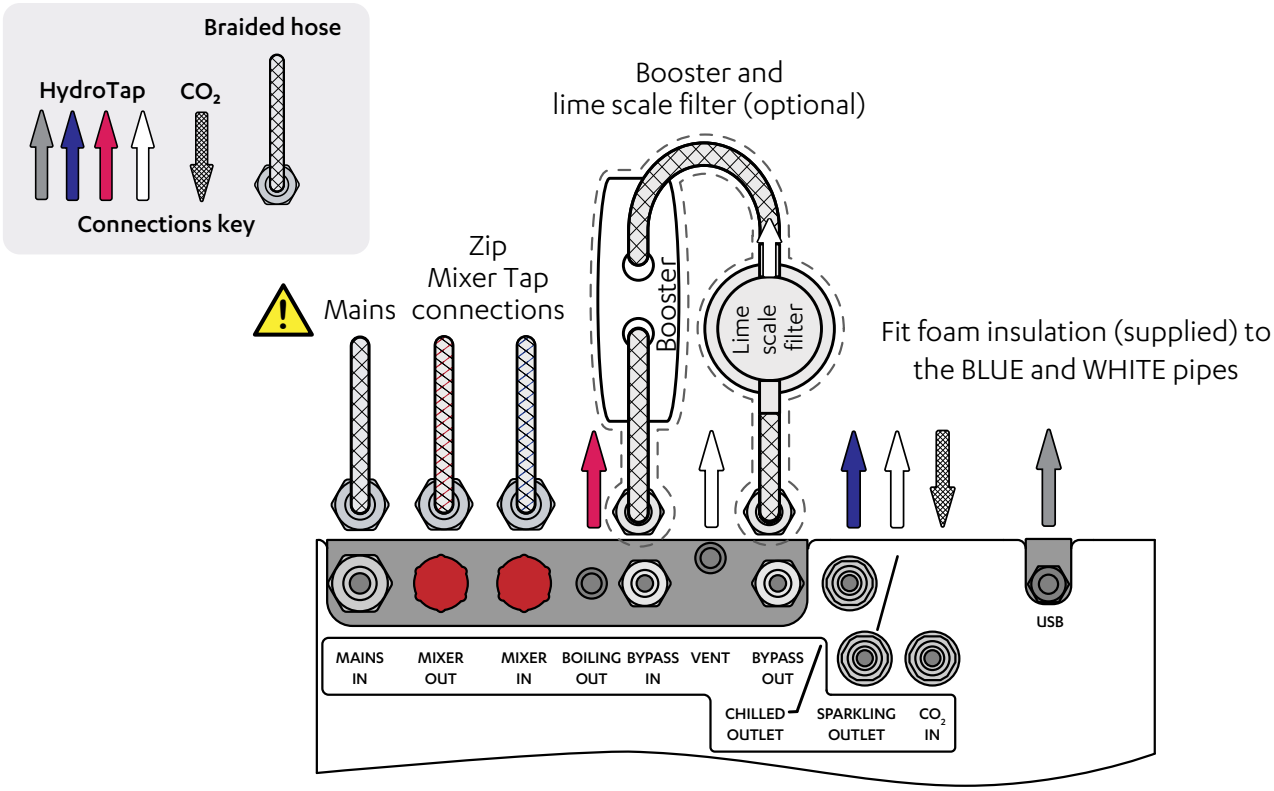
Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.



BCS30 H HydroTap and vented mixer tap combinations

Command Centre connections



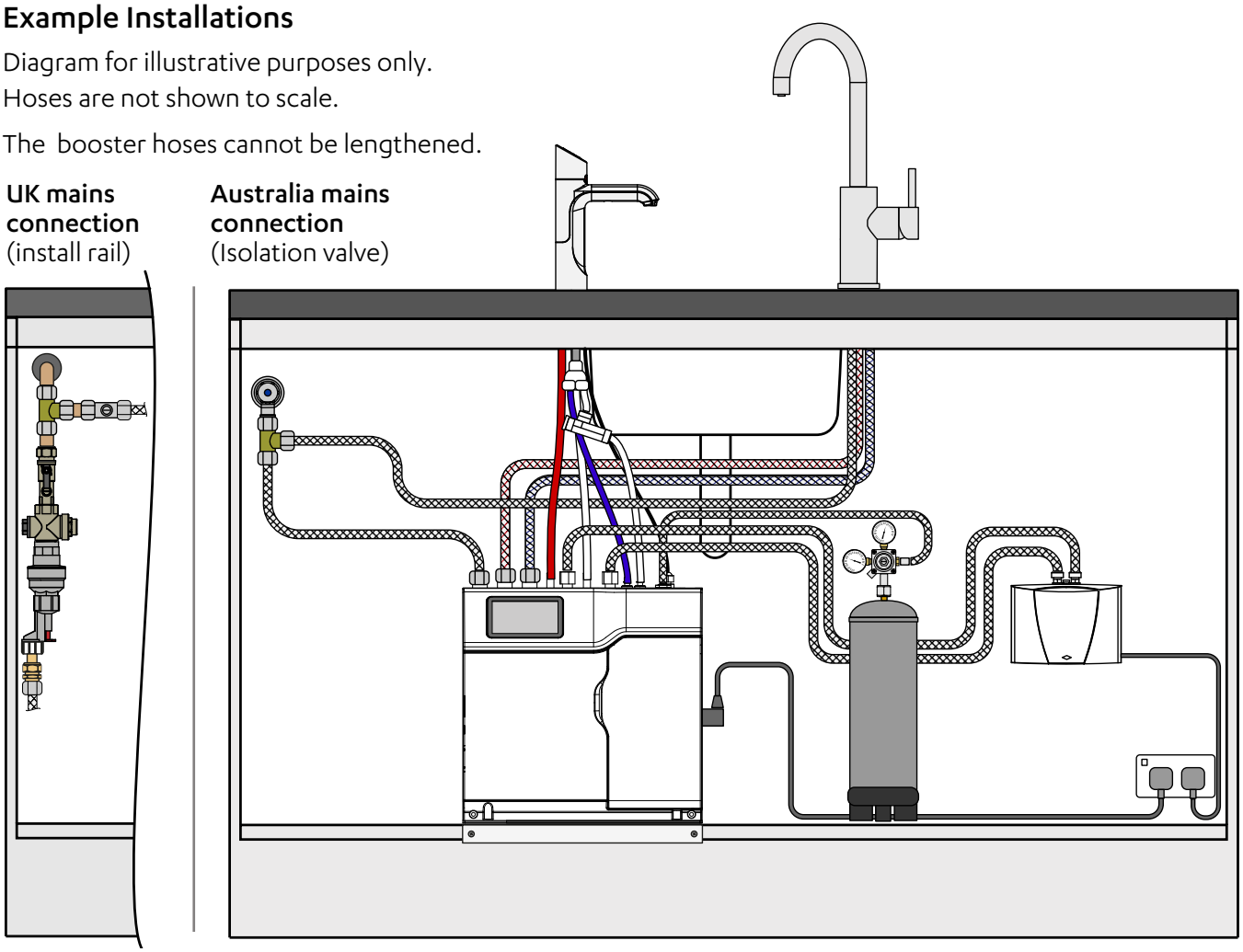
Example Installations

Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.

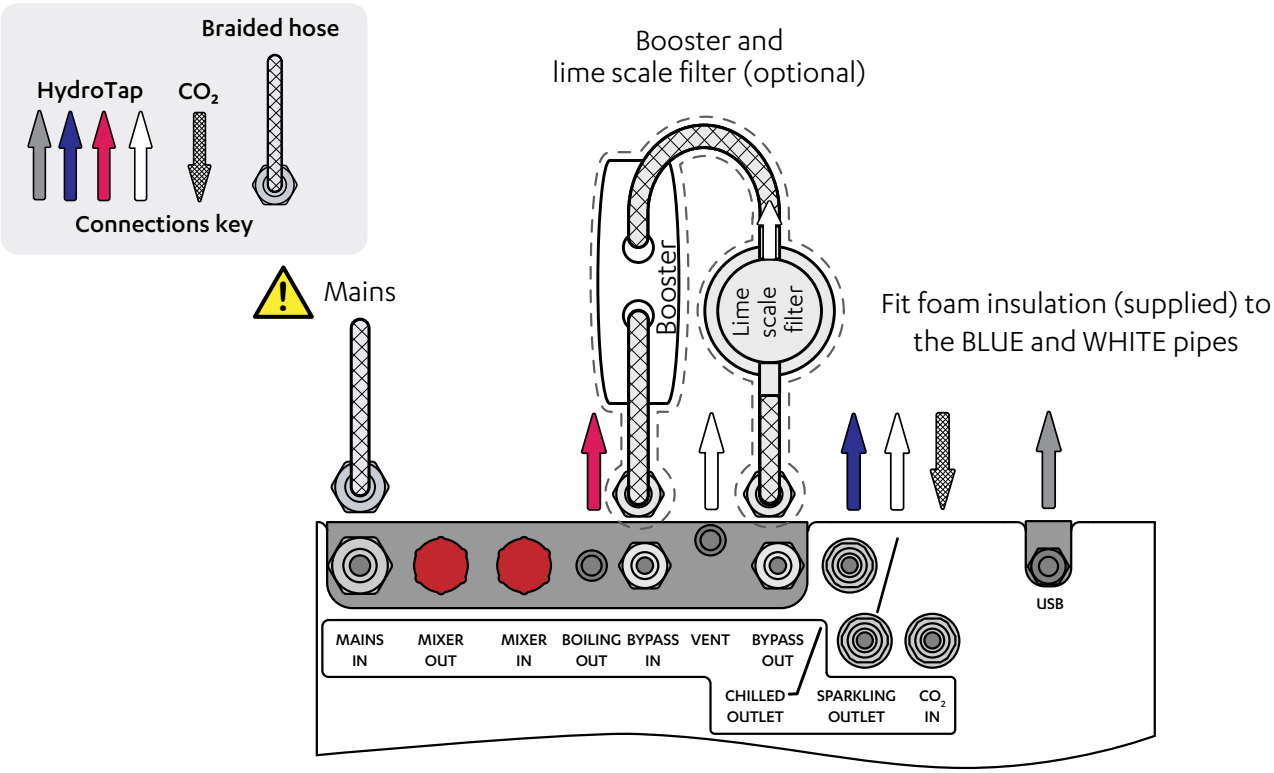
UK mains connection
(install rail)

Australia mains connection
(Isolation valve)



BCS30 All-In-One 'Mains' tap

Command Centre connections

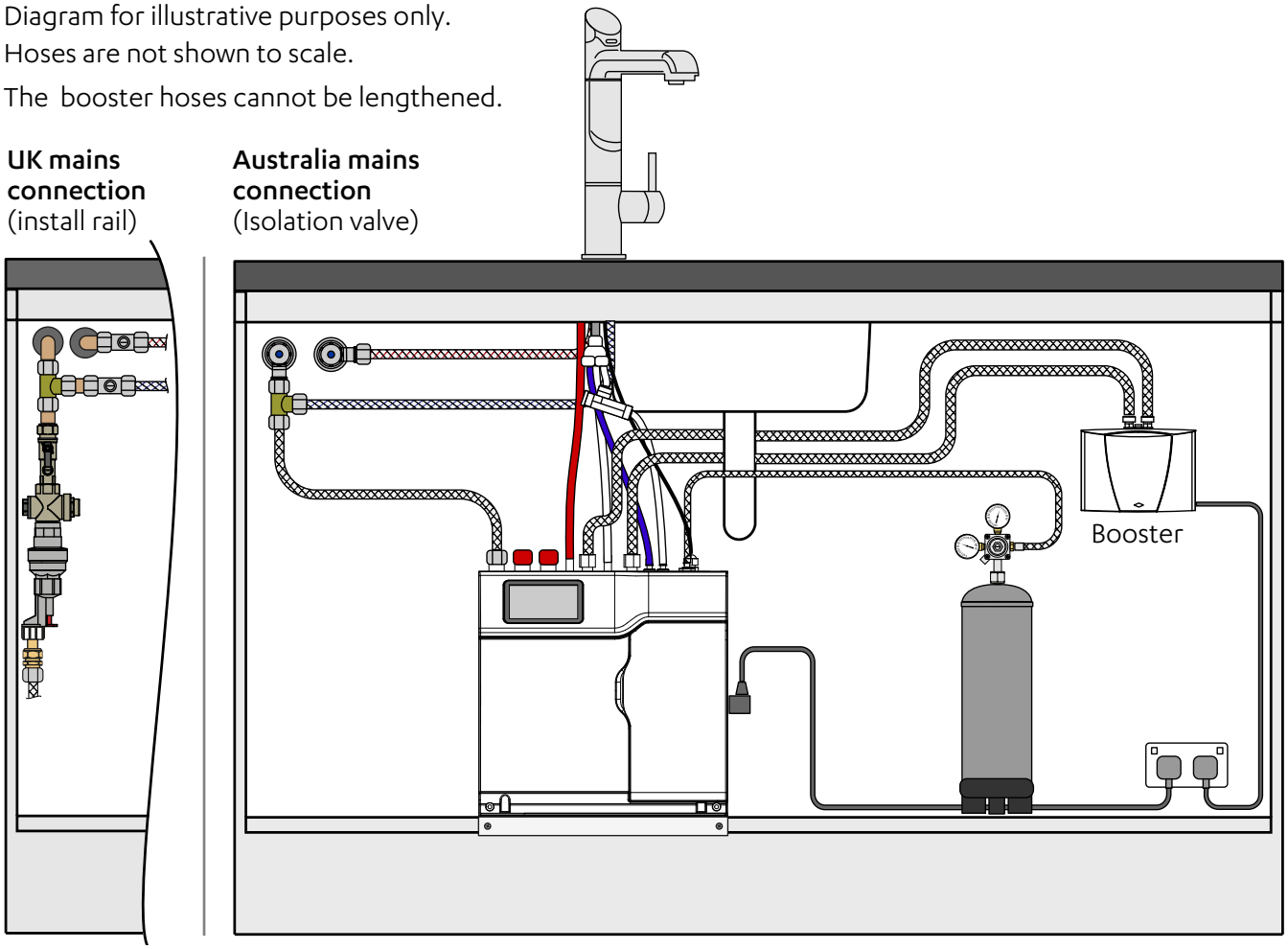


Example installation

Diagram for illustrative purposes only.
Hoses are not shown to scale.
The booster hoses cannot be lengthened.

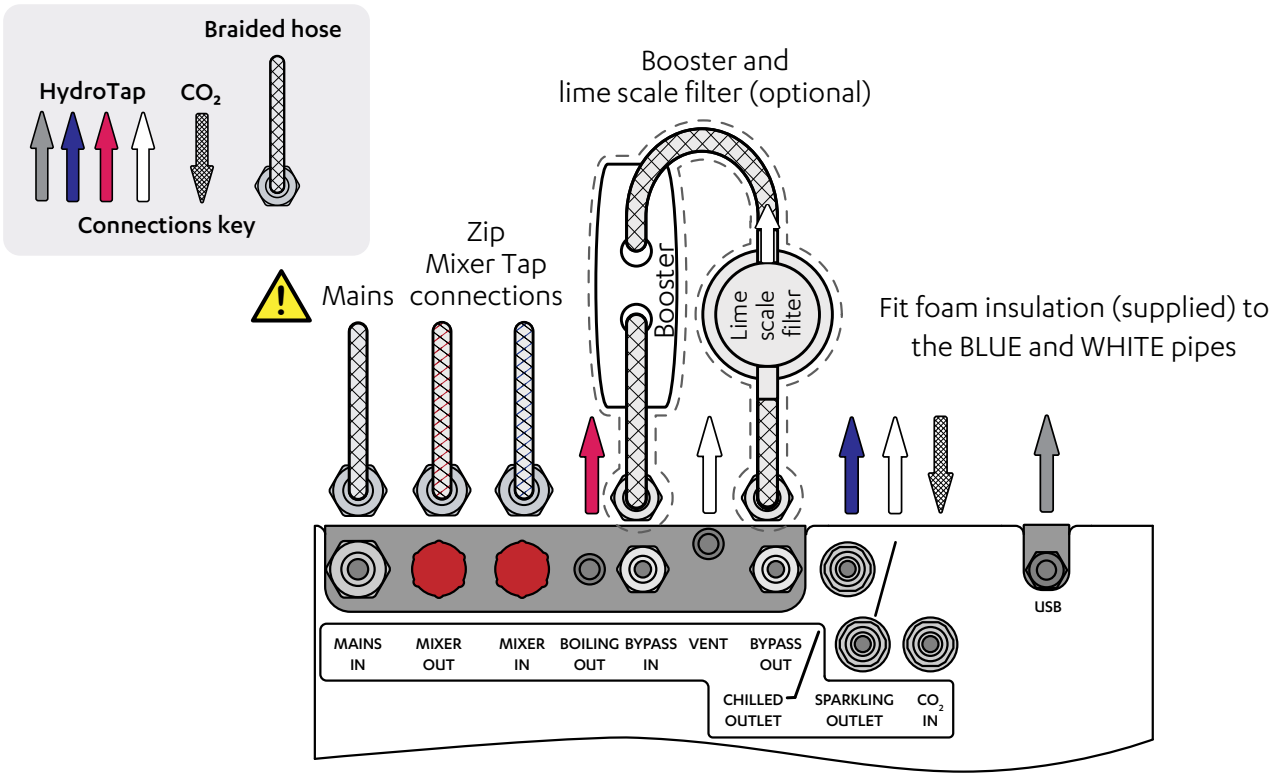
UK mains connection
(install rail)

Australia mains connection
(Isolation valve)



BCS30 H All-In-One 'Vented' tap

Command Centre connections



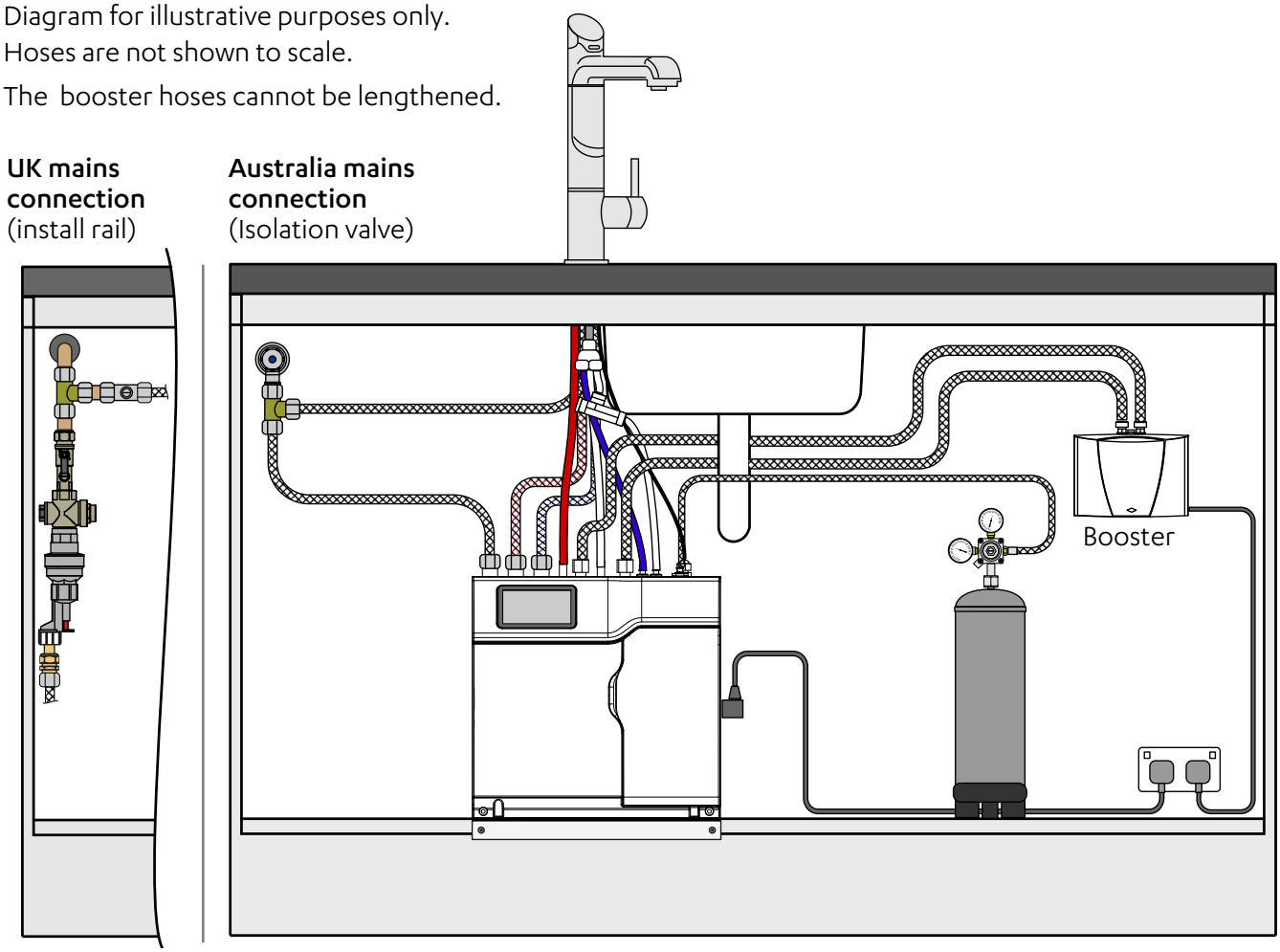
Example installation

Diagram for illustrative purposes only.
Hoses are not shown to scale.

The booster hoses cannot be lengthened.

UK mains connection
(install rail)

Australia mains connection
(Isolation valve)



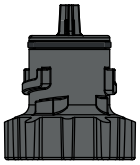
Commissioning using the HydroTap Clean can

The HydroTap Clean process

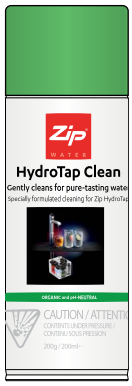
HydroTap Clean is a first to market cleaning process for HydroTap systems comprised of the HydroTap Clean solution, dosing adaptor and smart firmware.
The HydroTap Clean process is automated and gently cleans the chilled and sparkling water paths during the commissioning of a new HydroTap Command Centre.
The HydroTap Clean solution is:
Safe, natural, certified organic, PH neutral, biodegradable solution produced by electrochemically activated water acting like a detergent.
HydroTap Clean is also non-corrosive to gently clean the chilled and sparkling internal water paths of your new HydroTap.

Parts supplied with the kit

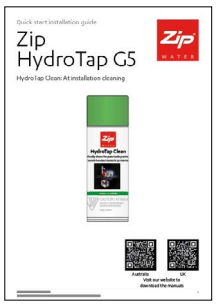
Parts supplied with the HydroTap Clean kit	Qty
HydroTap Clean can adapter (1) (used in filter head)	1
HydroTap Clean can (2)	1
HydroTap Clean instructions	1



HydroTap Clean adapter (1)



HydroTap Clean can (2)



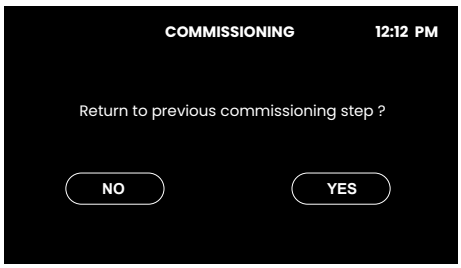
HydroTap Clean instructions

WARNING ! Do not connect the parts together before carefully reading/following instructions.

Turn on the supplies & familiarise yourself with the system

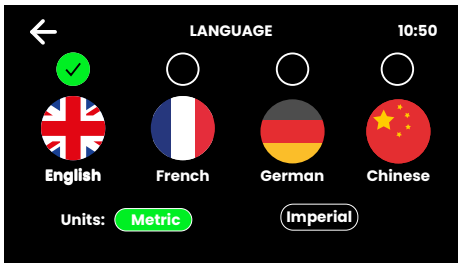
- Connect the mains electrical power cable to the supply.
- Turn the power and water on and check for any leaks.
- Familiarise yourself with the operation of the tap and GUI screen in preparation for use, see the user guide.
- Initial commissioning touch screen , set language option.
- The language is set automatically by country, but this can be changed manually, if required, by touching the language icon.

- Optional screen shown if the commissioning was previously started but not complete (Command Centre powered off during process). Otherwise screen will not be shown.



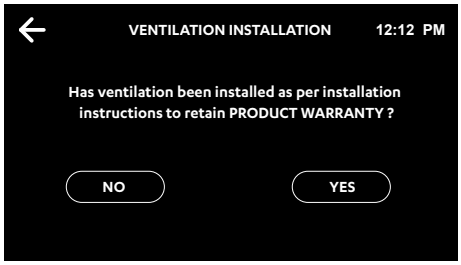
Select the language

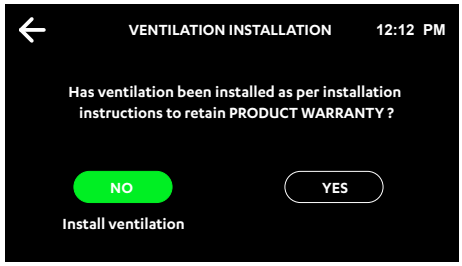
- Touch the appropriate button to select the language and units of choice.
- Touch the back arrow to go back to previous menu.
- In the previous menu, touch the arrow to begin the commissioning process.



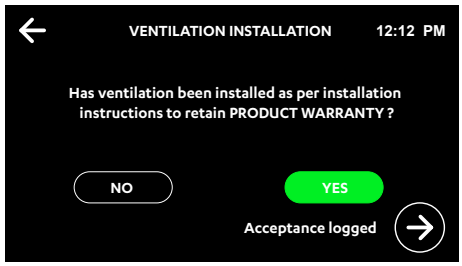
Confirm that the ventilation system has been installed

- Select YES to verify that the correct ventilation arrangement has been installed.
- If not select NO, install the ventilation component, then continue the commissioning process.

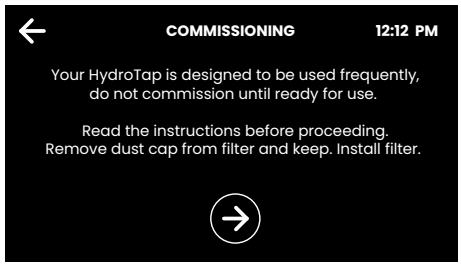




- Once the correct ventilation arrangement has been installed, select YES.
- The forward arrow appears.
- Touch the forward arrow to continue the commissioning process.

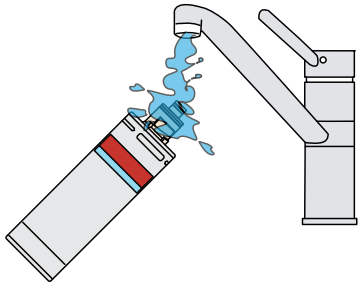


- Read the commissioning information, touch the forward arrow to go to the next screen.
- (Touch the back arrow to go back to previous menu).

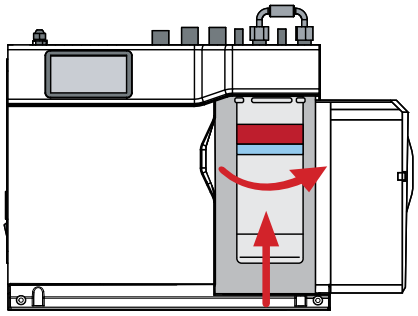


Install the filter cartridge

- Unpack filter cartridge.
- Remove dust cap and set aside in a clean area for use later.
- Write today's date where shown on the label.
- Avoid touching the filter o-rings and filter opening as this may cause bacterial contamination of the cartridge.
- Moisten the o-rings with water.

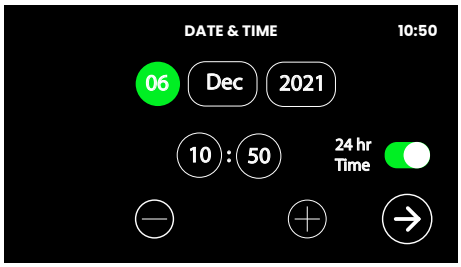


- Open the filter door on the Command Centre.
- Push the new cartridge up into the filter head.
- Turn the cartridge a quarter turn to the right until it comes to a complete stop and locks.

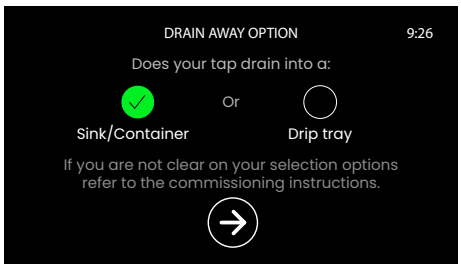


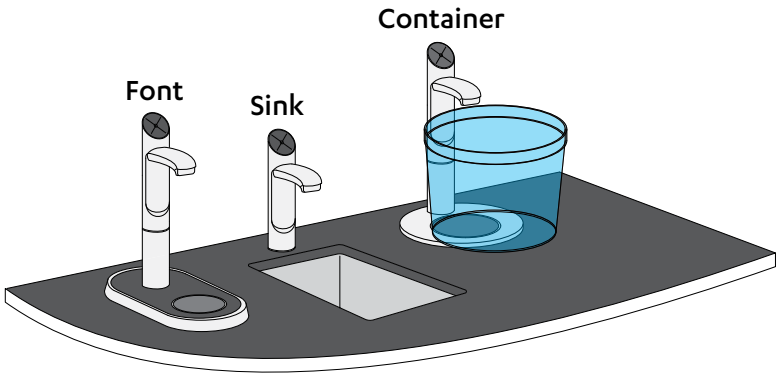
Set the date, time & drain away options

- Touch the date and time, use "-" or "+" to make adjustments. When ready, touch the arrow to continue.



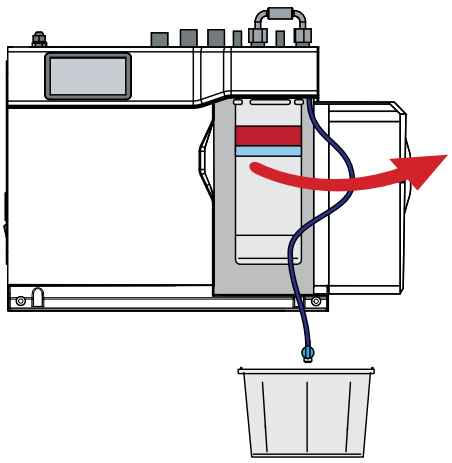
- Select 'Sink / Container' or 'Font' depending on the model , see below.
- Select 'Font' if the HydroTap is mounted on a font.
- Select 'Sink / Container' if the HydroTap is mounted such that the waste water dispenses into a sink, or container.
- **Note** This selection will determine if water is dispensed automatically or requires operation of the tap during the tank flush process.
- Touch the arrow to continue.

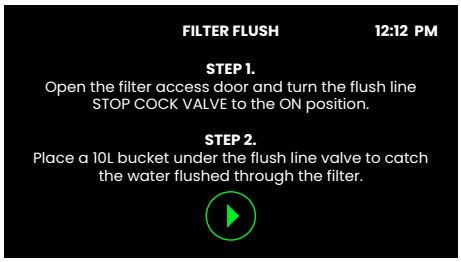


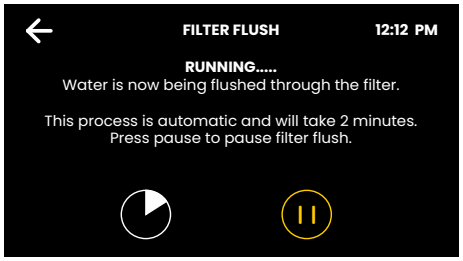


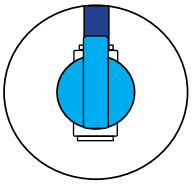
Filter flush

- Follow the steps on-screen to flush the filter.
- Open filter door & uncoil flush line.
- Direct flush line into bucket.
- Place a cloth or towel under the filter cartridge to catch any water that may spill.
- Open the stop cock valve.
- Start filter flush.

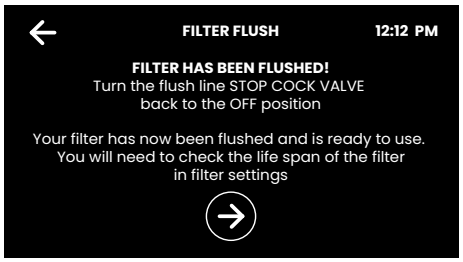


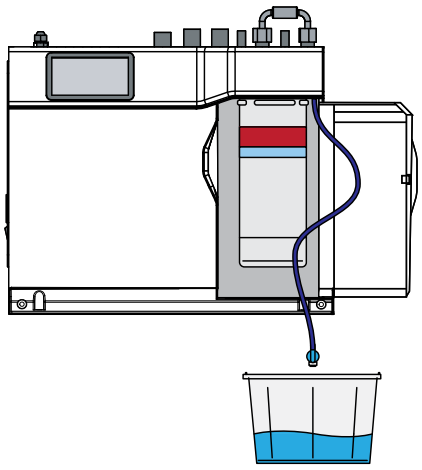




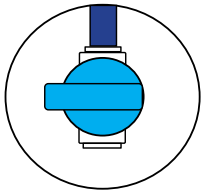


Stop cock valve open





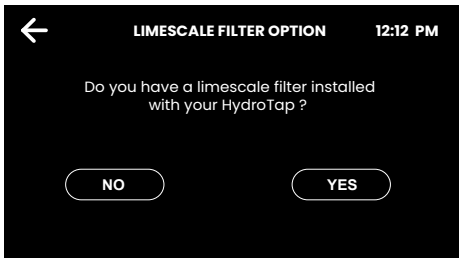
- Once the filter flush is finished, close the stop cock valve.
- Wipe up any spills.
- Close the door to secure the appliance.

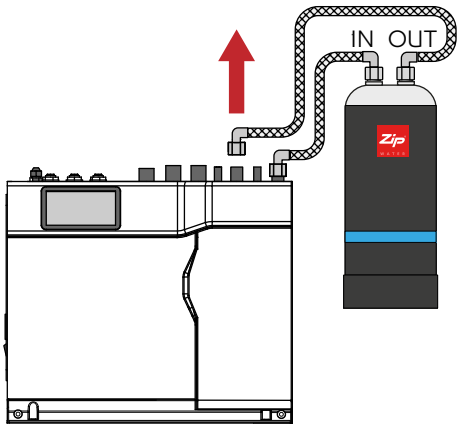


Stop cock valve closed

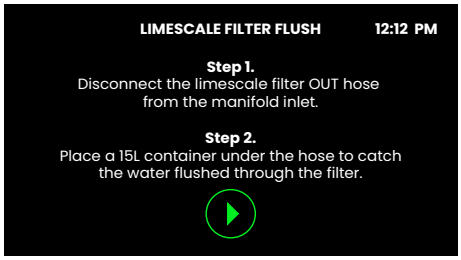
Limescale filter flush (If optional limescale filter is installed, UK models only)

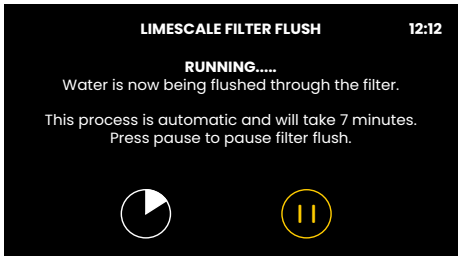
- Follow the steps on-screen.
- (Selecting NO advances the screen to the next process).

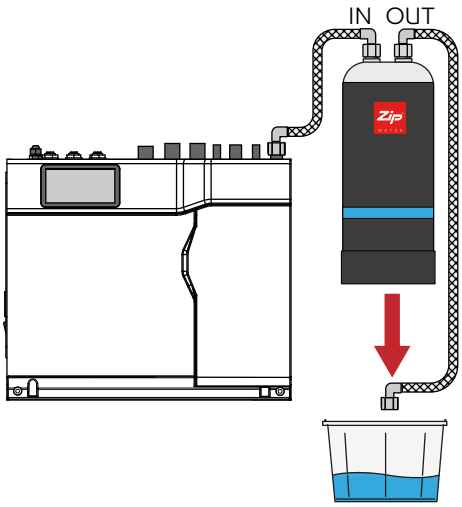


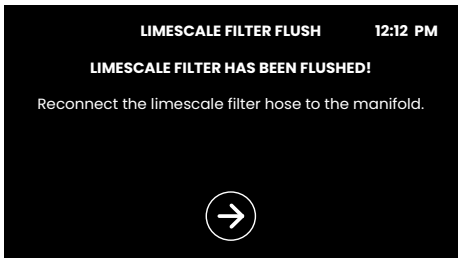


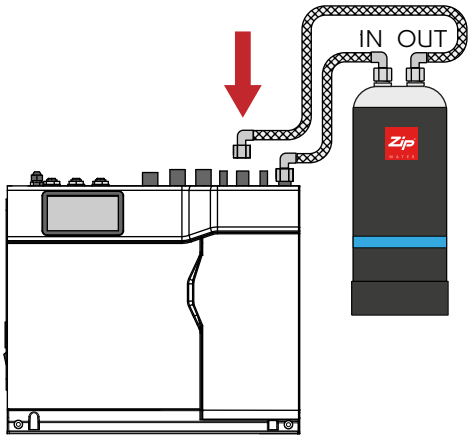
- Disconnect the limescale filter OUT hose from the Command Centre manifold.
- Direct it into a sink or suitable container.
- Touch green play icon to start filter flush.
- It will take 7 mins. to flush the filter.









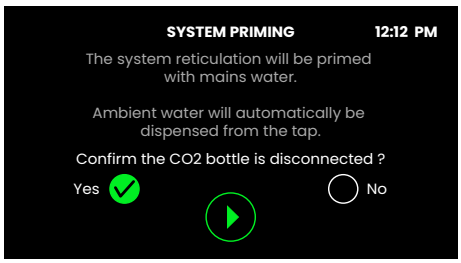


- Once the filter flush is finished, reconnect the limescale filter OUT hose to the Command Centre manifold.
- Touch the arrow to go to the next screen.

System priming

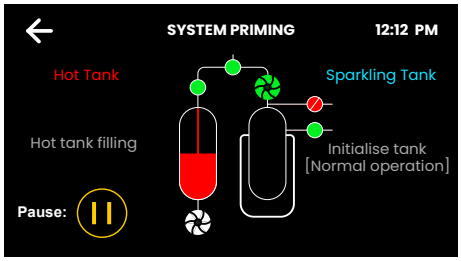
- Read the on screen information.
- For sparkling models disconnect the CO_2 bottle or turn off the CO_2 regulator (see the User guide).
- Confirm on screen.
- Touch the run arrow to go to the next screen.

BCS CS



- Monitor the on screen information.

BCS

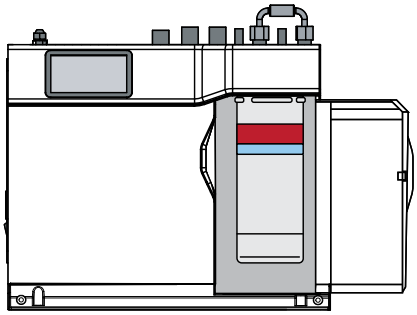


- **Note** if 'Font' has been selected on the drain away option and auto dispense is disabled on entry into this screen; the screen prompts the user to dispense using the tap during the process.

Cleaning preparation

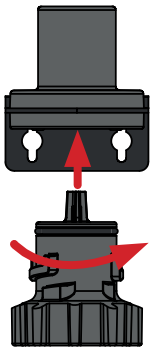
- Read the on screen information.

- Place a cloth under the filter.
- Remove the filter, refit the dust cap, and set aside in a clean environment.

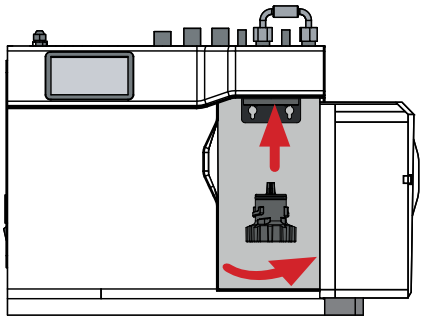


- Check the adapter seal is present and correctly positioned in the adapter.
- Install the HydroTap Clean adapter (1) into the filter head.
- Turn the adapter a quarter turn to the right until it comes to a stop and locks.

Filter head



HydroTap Clean adapter (1)



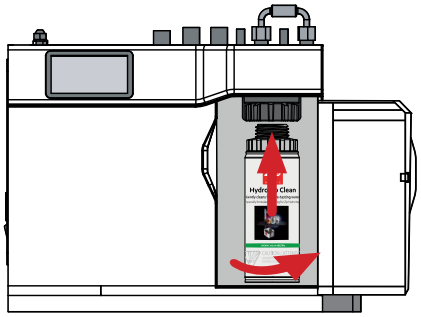
- Remove the lid from the HydroTap Clean can (2).

HydroTap Clean can (2)

Filter head and HydroTap Clean adapter (1)

- Screw the HydroTap Clean can (2) into the adapter (already installed into the filter head).

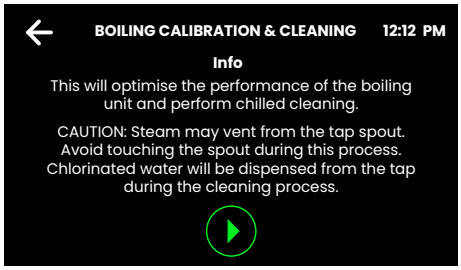
HydroTap Clean can (2)



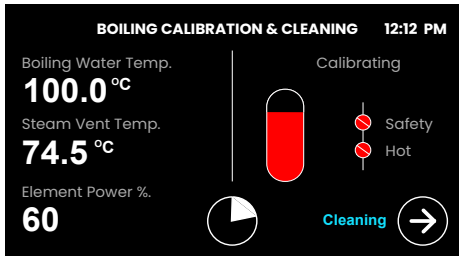
- Confirm installation of the HydroTap Clean can by selecting YES on the screen.

Boiling calibration and cleaning

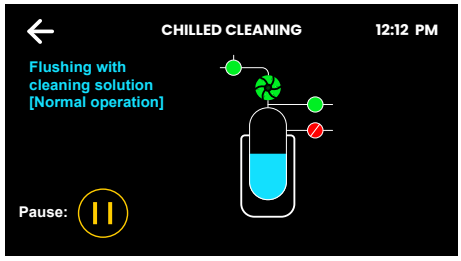
- Read the on screen information.
- BCS offers combined boiling calibration and cleaning.
- Touch the green arrow to run.

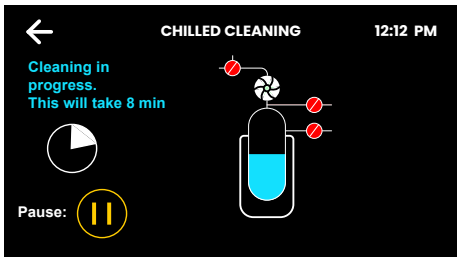


- Boiling calibration and cleaning process begins.
- Monitor the on screen information.
- Touch 'Cleaning' forward arrow to view screen of cleaning process.
- **Note** If 'Cleaning' text is flashing there is a required action on that screen to perform (empty cold tank).



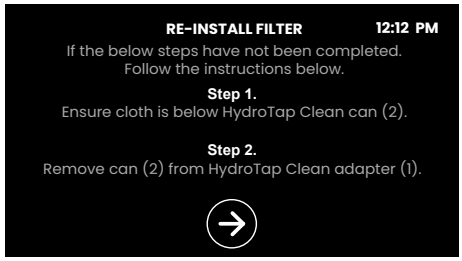
- Cleaning process begins.
- Monitor the on screen information.
- **Note** This is automatic unless 'Font' was selected in the drain away option selection screen. In this case a manual dispense action may be requested.



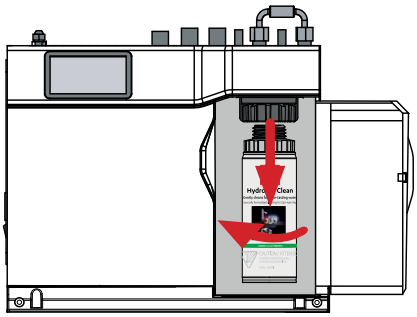


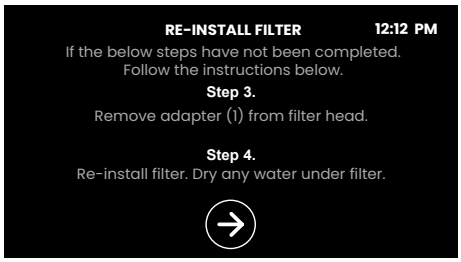
- Read the on screen information and instructions.
- **Note** When the cleaning process completes there is an opportunity to re-install the filter while the boiling calibration is finishing.

- This screen is shown after completion of the boiling calibration and or cleaning processes.

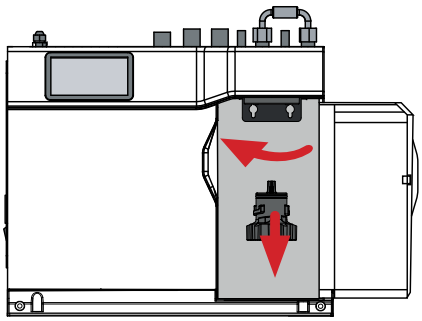


- Unscrew the HydroTap Clean can (2).
- Ensure to hold the adapter in place while unscrewing the can.

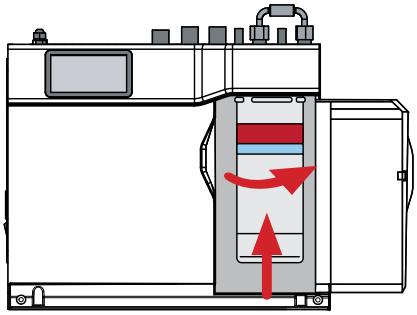




- Remove the HydroTap Clean adapter (1) from filter head.

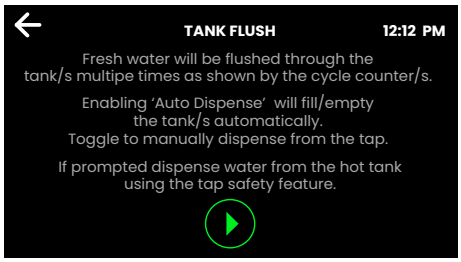


- Remove the dust cap and re-install the filter.
- Touch forward arrow on screen to continue.



Tank flush

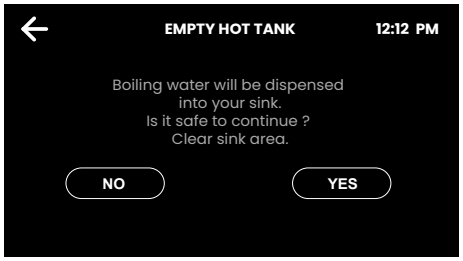
- Read the on screen information and instructions.
- Touch the green arrow to run.



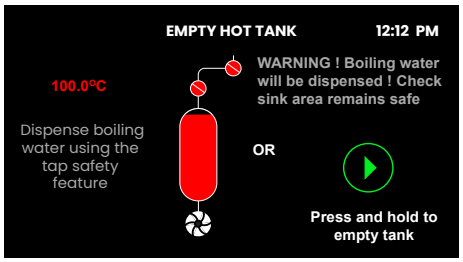
- Empty the hot tank first (boiling models).

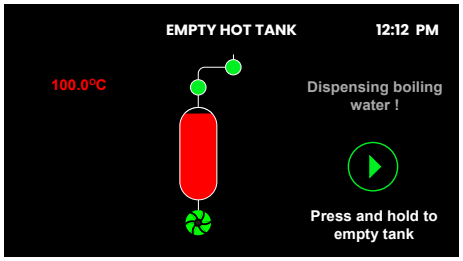
- Select NO if it is not safe to continue.
- Select YES to continue safely.

- If NO is selected (indicating that it is not safe to continue) the screen will prompt the user to clear the sink area.
- Once it is safe to continue select YES to empty the hot tank.



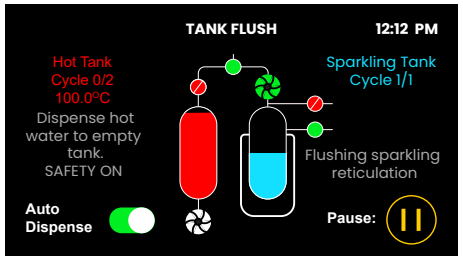
- There are two ways to empty the hot tank:
- Dispense boiling water from the tap using the tap safety feature.
- OR
- Touch and **HOLD** the green run arrow icon to dispense directly from the touch screen display.
- If choosing to dispense directly from the touch screen display, 'dispensing boiling water' text flashes on the screen while holding the button.
- After the boiling tank is emptied the system progresses to the tank flush screen.



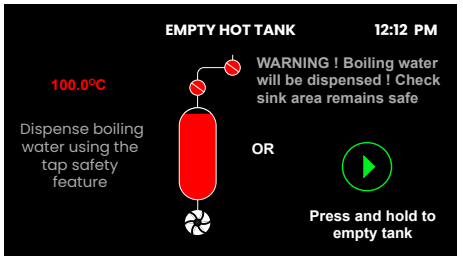


- **Note** For all models, the on screen cycle counter displays the number of remaining cycles in the tank flush process.
- Monitor the on screen information.
- For BCS models:
- The hot tank will cycle twice.
- The sparkling tank will cycle once on both the chilled and sparkling reticulation.

BCS

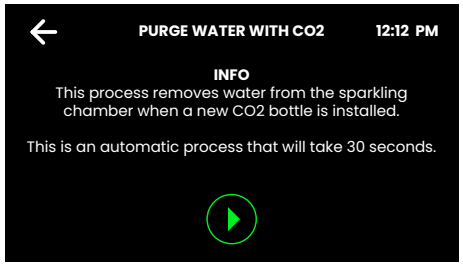


- **Note** For all boiling models, if after filling the hot tank during the tank flush process, the hot water temperature is still above 50°C the tank will need to be emptied again.

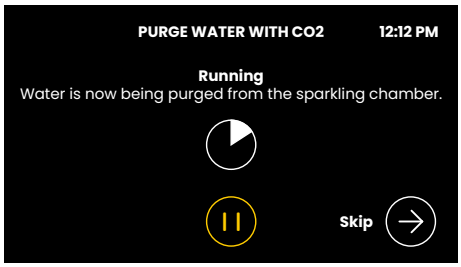


- For BCS, CS models:
- Read the on screen information.
- Ensure that the CO_2 cylinder is connected and if supplied with an adjustable regulator, set to 3.0 bar (300kPa).

- Touch the green arrow to run.
- CO_2 life settings should be adjusted for the size of the CO_2 bottle connected. (see the User guide or Online Installation and User guide.

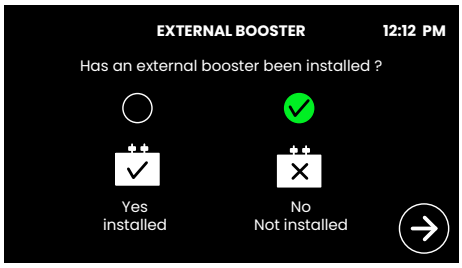


- Touch the green arrow to run.
- CO_2 life settings should be adjusted for the size of the CO_2 bottle connected. (see the User guide or Online Installation and User guide.
- Use the skip arrow to end the CO_2 purge process prematurely if all water has been purged and only gas can be heard coming from the tap.



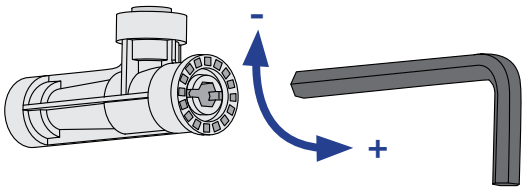
Select the booster

- Read the on screen instructions.
- Select the appropriate option.
- Select:
  Booster NOT installed for BCS20 & BCS Home models.
  Booster installed for BCS30 models.



Carbonation valve 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).



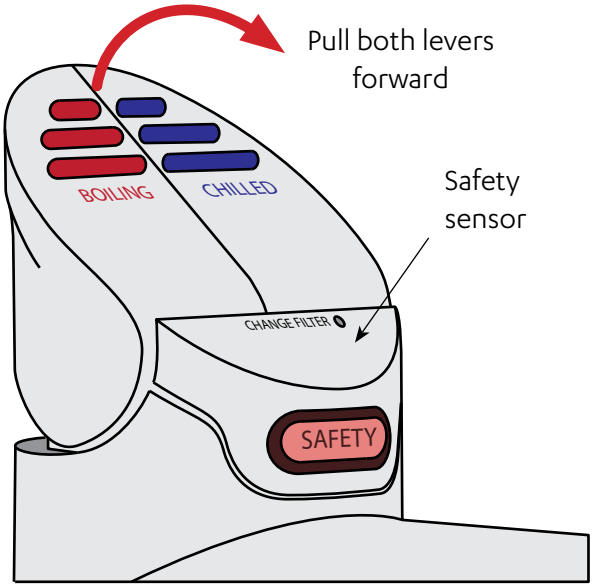
- If the flow rate is adjusted too high, the carbonation tank will be emptied of water, leaving only CO_2 to be dispensed from the tap. This will result in inconsistent flow (spluttering).

Safety sensor calibration (Classic boiling models only)

Optional, in cases where light recalibration is required.

Light intensity varies from site to site, therefore it is recommended that a re-calibration be performed at the time of the installation. All direct sunlight must be shaded from the HydroTap G5, during the calibration. This can be achieved by closing any nearby curtains, blinds, etc.

- Shield the HydroTap G5 from direct sunlight.
- In normal operating mode. Turn the power off.
- Pull both tap levers to the forward position.
- Turn the power on.
- The safety sensor will calibrate.
- Return the levers to the neutral position.



Section 6 Service and Trouble shooting

Service items

- Filters should be replaced at six month intervals for Commercial HydroTaps, and 12 month intervals for Residential HydroTaps.
- CO_2 regulator washers should be replaced annually.

Trouble shooting table

Fault code	Fault name	Fault trigger
000	Power Board Fault	Internal communication fault
001	Interface Fault	Internal communication fault
004	Water Leak, Isolate Mains	Water detected in the unit due to tank overfill or internal / external leakage.
005	Compressor OverRun	Compressor has been running continuously for an extended time period
006	Water Supply Failure	Water not detected by unit
007	Hot Sensor Open	Internal sensor fault
008	Hot Sensor Closed	Internal sensor fault
009	Cold Sensor Open	Internal sensor fault
010	Cold Sensor Closed	Internal sensor fault
011	Flood Sensor Open	Internal sensor fault
012	Condenser Sensor Closed	Internal sensor fault
013	Condenser Sensor Open	Internal sensor fault
014	Heater Fuse/Driver Fault	Internal component fault
015	Heater Driver Fault	Internal component fault
016	Compr Driver Fault	Internal component fault
017	Hot Sensor Degraded	Internal sensor fault
018	Condenser Overtemp	Temperature of condenser has exceeded its limit
019	A DC Pump is faulty	Internal component fault
020	Steam too cool	Boiling calibration error
021	Steam Sensor Open	Internal sensor fault
022	Steam Sensor Closed	Internal sensor fault
023	Over Steamed	Excess steam detected
024	Hot Tank Overfilled	Hot tank has over filled
025	Comp Fuse/Driver Fault	Internal component fault
027	Boil dry protection	Heating protection device has activated
030	Hot Tank Time Out	Hot tank is taking too long to fill during the tank flush step
031	Cold Tank Time Out	Cold tank is taking too long to fill during the tank flush step
053	UV Not Present	UV disenfector not plugged in
054	UV Over Temp	UV disenfector is overheating
055	UV Under Current	No power detected from UV disenfector
056	UV Over Current	UV disenfector drawing too much current
057	UV Comms Error	Internal communication fault

Section 7 Operation and Maintenance

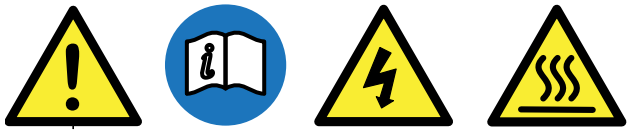
Please refer to the User Guide for all operational and maintenance features of the HydroTap. The User Guide is located in the HydroTap Command Centre filter door.

Zip offers a fully-inclusive HydroCare Service Plan to take care of all routine maintenance, including filter replacements, sanitisation, electrical safety inspections as well as general maintenance of your HydroTap. For more information, visit our websites:

(Australia) www.zipwater.com/hydrocare
(UK) specify.zipwater.co.uk
The Zip filter should be replaced as recommended on the filter label, or earlier if you notice a persistent reduction in water flow from the tap or an increase in chlorine, taste or odour in the water. Not changing the filter cartridges when required may affect the water quality.

For safe operation after periods of non-use longer than 48hours, flush the HydroTap for at least 60 seconds.

Cleaning



- Wipe surfaces with a damp cloth or antibacterial alcohol wipes, then wipe dry with a clean, dry microfibre cloth or paper towel.
- Food-grade disinfection wipes may be used to clean around and within the tap spout.

IMPORTANT

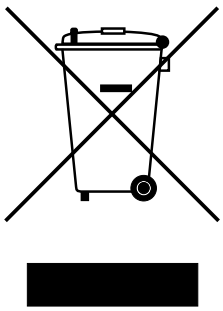
- Do not use strong, corrosive, or abrasive cleaning materials.
- Do not use air-drying disinfectant sprays.
- Failure to remove the cleaning liquid may damage the finish of the tap.

Touch-Free Wave Tap

- Do not use abrasives to clean the sensor lenses at the sides, top and rear of the tap.
- This could cause permanent malfunction and void warranty.

Section 8 End of life disposal

Waste electrical and electronic equipment



The symbol above means that according to United Kingdom and European Union member countries laws and regulations, your product and /or its battery shall be disposed of separately from household waste.
When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and /or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Zip Water
67 - 77 Allingham Street,
Condell Park, NSW 2200
Postal: Locked Bag 80,
Bankstown 1885
Australia
(+612) 9796 3100
Free Call (Aust): 1800 947 827
www.zipwater.com

Zip Water UK
Trafalgar House,
Rash's Green, Dereham,
Norfolk, NR19 1JG
0345 6 005 005
sales@zipindustries.co.uk
www.zipwater.co.uk

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 Heaters (Aust) Pty Ltd.