

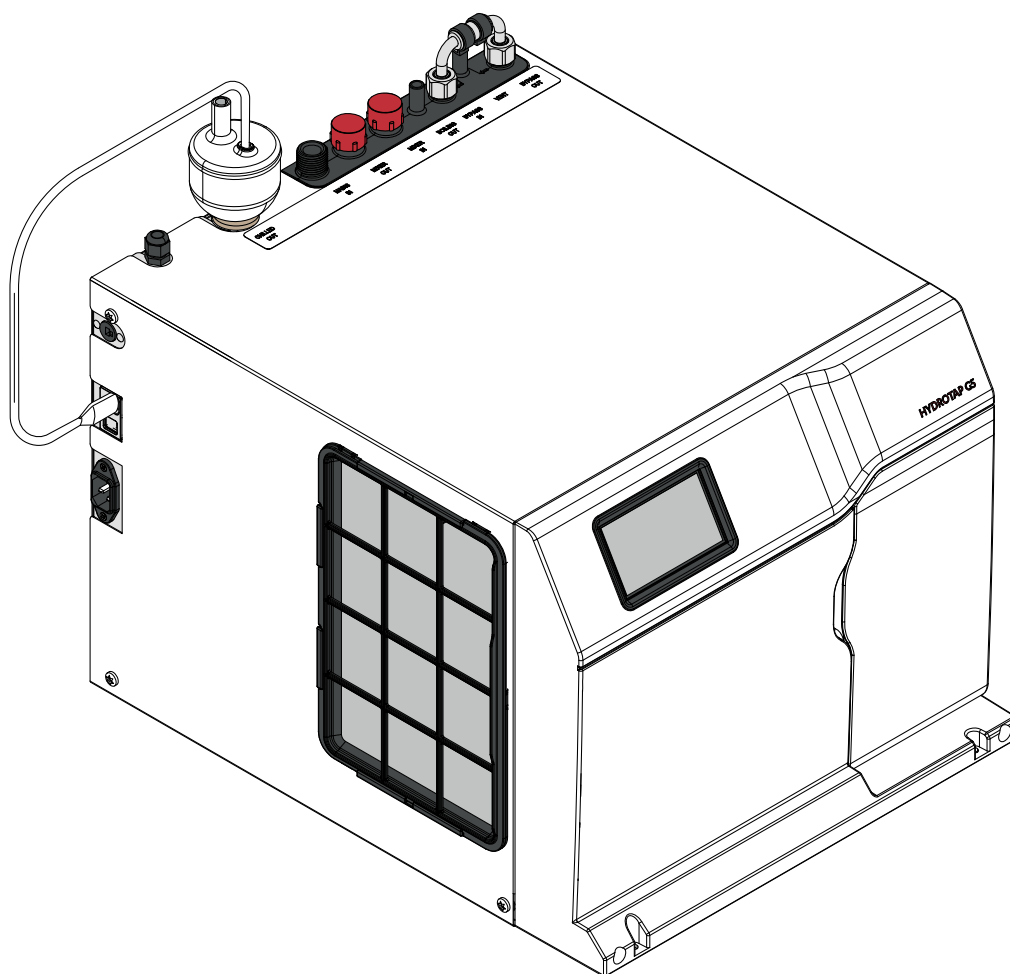
Installation instructions

Zip HydroTap® G5



Model :

BCU40, BCU60, BCU100
Command Centres



INSTALLATION INSTRUCTIONS Table of contents

Using these instructions.....	3
Explanation of symbols	3
Safety instructions.....	3
Section 1 IMPORTANT SAFETY INSTRUCTIONS	3
Warnings and regulatory information	5
Technical data	8
Parts supplied & tools required	9
General layout.....	10
General product features	11
Section 2 Ventilation	12
Clearance envelope & airflow.....	12
Installing the ventilation components	12
Section 3 Ancillary Installations - Install Rail installation (UK only)	15
Section 3 Ancillary Installations - Connect to the water supply	16
Connect the braided hose to the mains water supply.....	16
UK connections	16
Australia connections.....	16
Section 3 Ancillary Installations - External Limescale filter bypass valve.....	17
Section 3 Ancillary Installations - Limescale filter installation (UK only).....	18
Section 3 Ancillary Installations - UV-C Module	19
Section 3 Ancillary Installations - Booster system installation	20
Section 4 Command Centre installation	23
Generic installation arrangement instructions	23
Tubes and pipes.....	23
John Guest pipe and fittings	24
Mains power cable	24
USB	24
BCU40, BCU60 models, General layout.....	25
BCU40, BCU60 HydroTap G5 models	26
BCU100 models, General layout	27
BCU100 HydroTap G5 models	28
Section 5 Commissioning	29
Commissioning using the HydroTap Clean can	29
Section 6 Troubleshooting	39
Section 7 Operation and Maintenance.....	41
Cleaning	41
Section 8 Performance Datasheet.....	42
Section 9 End of life disposal	43

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.

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 5°C - 35°C. 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 5°C 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.
- Use only the power supply provided with the UV-C Module. An ACM36US21 power supply is provided.
- 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.
- 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

WARNINGS AND REGULATORY INFORMATION



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.



Electricity supply requirements

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

Component	Country	
	Australia, NZ	UK
Command Centre	1x 220 - 240V AC 10A socket	1x 220 - 240V AC 13A sockets
Booster	1x 220 - 240V AC 10A socket	1x 220 - 240V AC 13A sockets
UV-C module	1x 220 - 240V AC 10A socket	1x 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)
Vented Mixer Tap	300 (3.0) - 700 (7.0)	200 (2.0) - 500 (5.0)
Booster	200 (2.0) - 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)

Technical data

Technical data table

UltraCare Command Centre	BCU40	BCU60	BCU100
Boiling water (cups per hour)*	160	160	240
Chilled water (glasses per hour)*	125	175	175
Power rating kW 220-240V 50Hz	1.97	2.10	2.10 + 2.20**
Power rating kW 220V 60Hz	1.84	2.00	2.00 + 2.20**
Dimensions W x D x H (mm)	395 x 487 x 333		
Dry Weight (kg)***	30		
Ambient operating temperature	5 - 35 °C		
Boiling water temperature setpoint	98°C		
Chilled water temperature setpoint	5 - 9°C		
Chilled water coolant	R290		
* 1 cup = 167 mL, 1 glass = 200mL			
** power rating of the Booster			
*** Add 5 kg when full of water			
# including vent tray			

UV-C Module***	Specification
Rated service flow	2.8 L/min
Maximum working pressure (applies to UV-C Module, not Command Centre)	830 kPa
Maximum operating temperature	50 °C
Operating voltage	12 V DC
***This Class B system or component conforms to NSF/ANSI 55 for the supplemental bacteri- cidal treatment disinfected public drinking water or other drinking water that has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is only designed to reduce normally occurring non-pathogenic nui- sance microorganisms. Class B systems are not intended for treatment of contaminated water.	

UV-C module power supply specification

Model: XP Power ACM36US12

Specification	Rating
Power supply	100 - 240V AC 50/60Hz
Power supply current*	1A (0.5@230V)
Output voltage and current*	12.0V 3.0A DC

*Figures above show the capacity of the power supply under full load.
 Less will be drawn when used with the UV-C module.

Booster specification

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

Parts supplied & tools required

Parts supplied with the HydroTap	BCU40 (AU only)	BCU60	BCU100
Tap			
HydroTap tap		✓	
HydroTap pipes, tubes hoses and fittings		✓	
Separate Mains mixer Tap & fittings		Optional	
Command Centre			
UltraCare Command Centre		✓	
Mains electrical supply cable		✓	
UV-C module and power supply		✓	
Water supply inlet hose		✓	
Water supply inlet adaptor and strainer		✓	
Ventilation kit		✓	
Install rail & Water block kit		(UK only)	
Booster			
Booster & hoses	Optional		✓
Filters			
Water filter & instructions		✓	
Limescale 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.

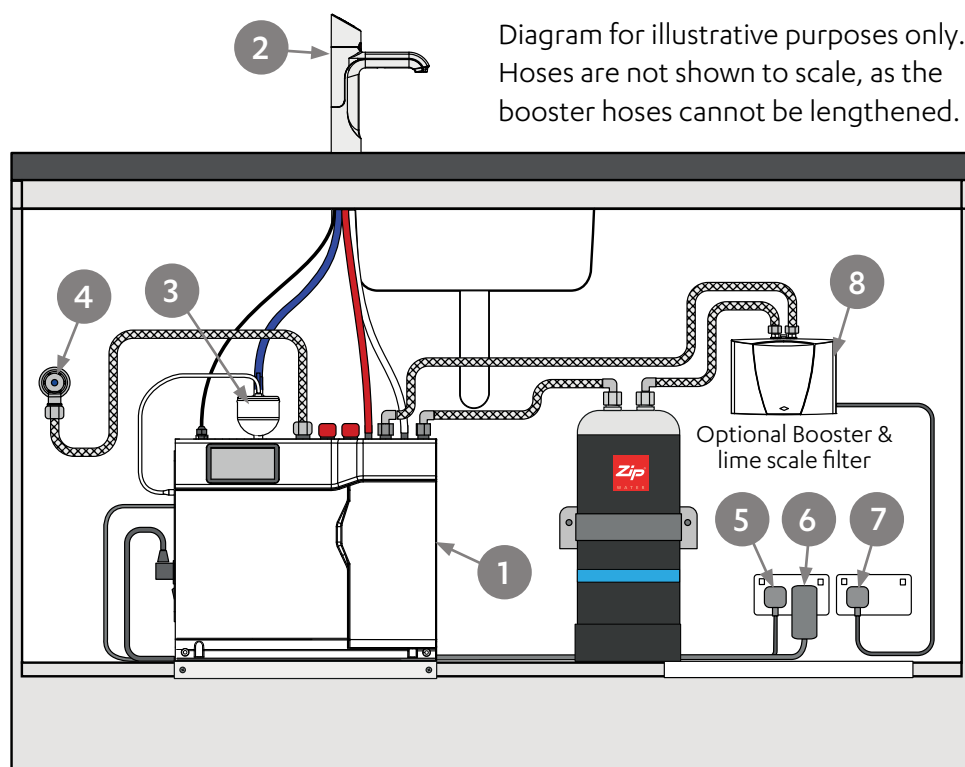
Tools

In addition to standard tools, the following special tools will be required for installation:

- 35mm diameter sheet metal hole punch for sink tops (not supplied).
- 35mm diameter hole saw for timber bench tops (not supplied).
- Nut runner tube spanner (supplied) for fixing tap assembly.
- Jigsaw and 12mm drill (not supplied) for installation of ventilation.
- Keyhole or wall board saw (not supplied) for installation of ventilation.

Installation

Ensure there is adequate space in the installation area for all components, with access to water and power. The ambient mains water braided hose length is 750mm. Electrical power cable length is 1.8m.



- | | |
|---|--------------------------------------|
| 1 Command Centre | 5 Command Centre mains power cable |
| 2 HydroTap | 6 UV-C module power supply |
| 3 UV-C module | 7 Optional Booster mains power cable |
| 4 Mains water supply* (isolation valve not supplied for AUS, for UK use Install rail) | 8 Optional Booster |

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?

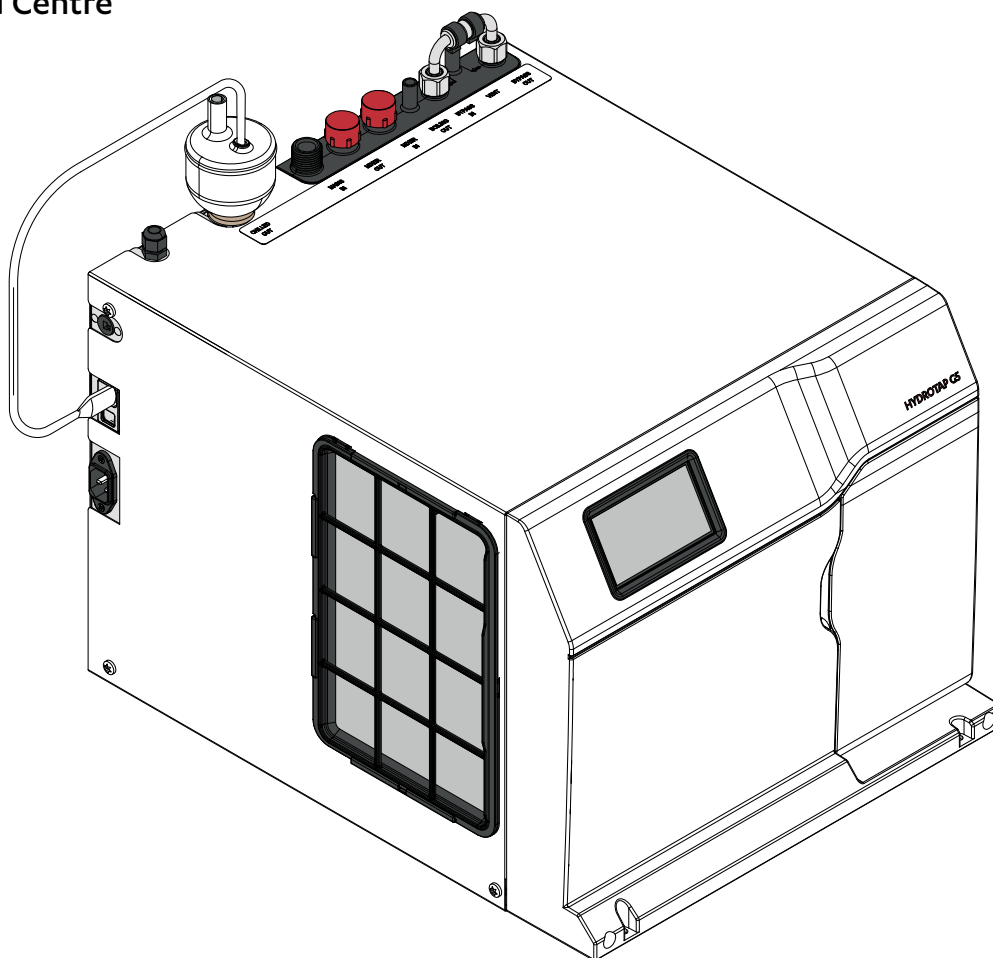
This Zip HydroTap G5 is an electronically controlled, filtered, boiling, chilled and sparkling (functionality is dependant upon model purchased) drinking water system for the kitchen. The HydroTap G5 systems are under counter drinking water appliances with a dispensing tap mounted on a sink or worktop, 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 CO₂ 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





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

Clearance envelope & airflow



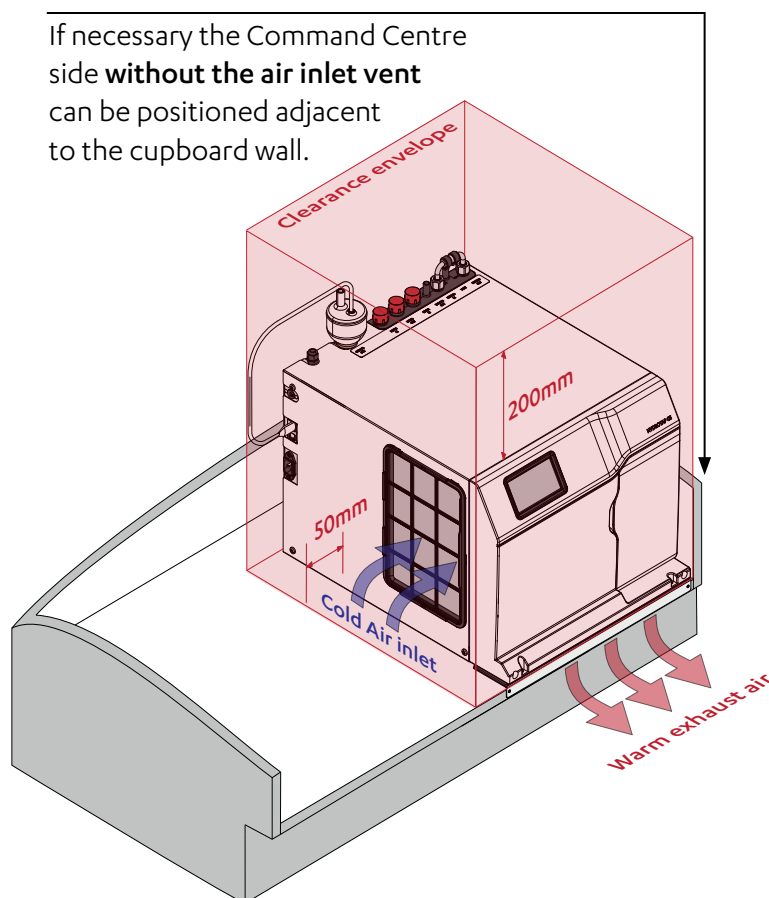
The integrated vent aperture must be cut out of the cupboard floor & mounting plate fitted. The vent provides a safe exhaust for the refrigerant gas in the unlikely event of a leak.



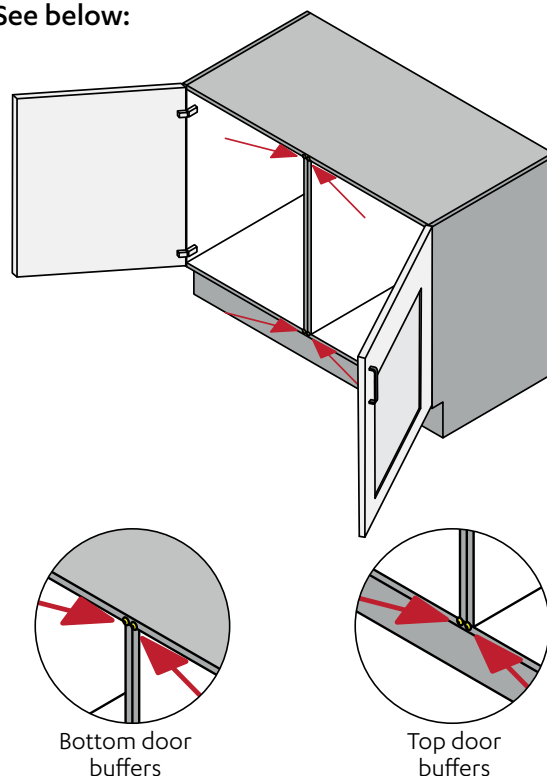
A clearance envelope above and adjacent to the cold air inlet of the Command Centres must be provided to allow ventilation for the safe and effective use of the HydroTap system, see arrangement below.

Note

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



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



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.

If installing in a warm space, use optional extra, inlet vent **c**.

The inlet vent cut-out may be positioned in the cupboard side, door or floor (for cupboards with more than 40mm overhang). Observe 100mm inlet / outlet vent separation.

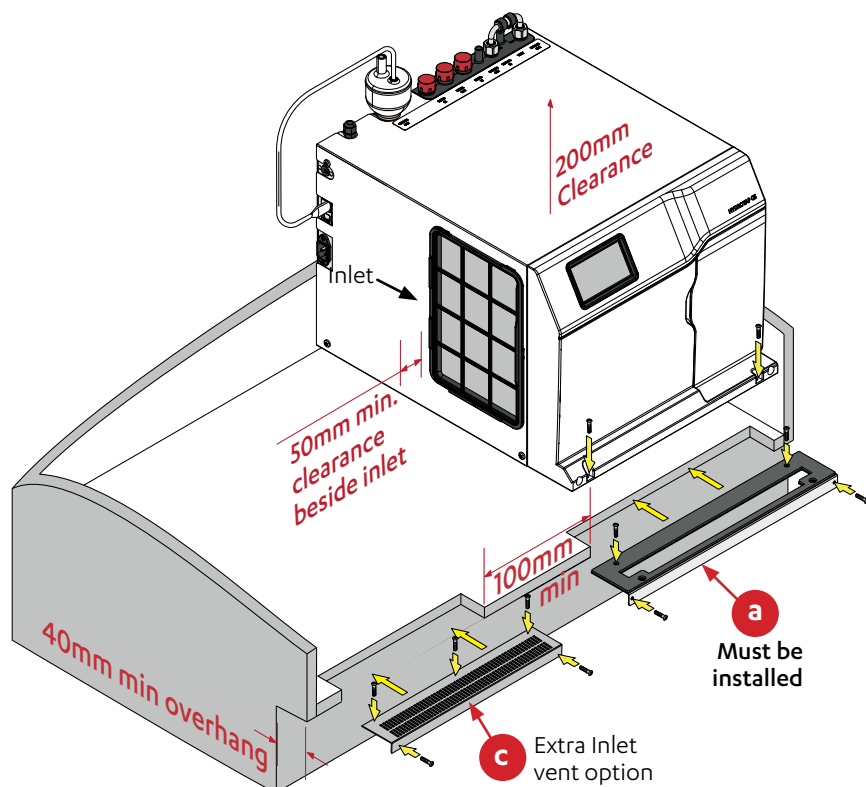


Incorrect ventilation installation may void warranty coverage.

BCU40, BCU60, BCU100 ventilation options

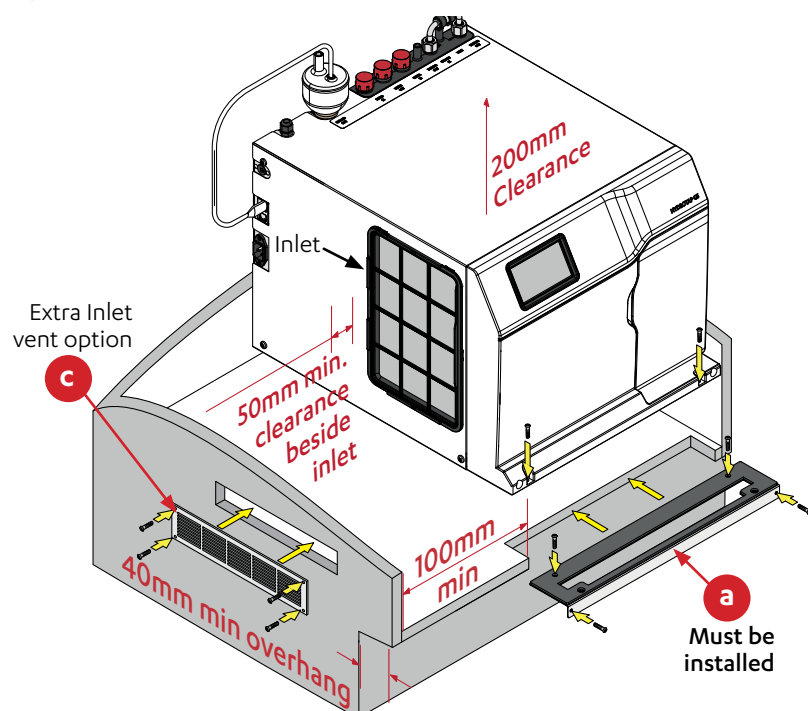
Option 1: Ventilation arrangement using large cupboard with min. 40mm overhang Directing warm air straight into the room.

a Must be installed



Option 2: Ventilation arrangement using small cupboard with min. 40mm overhang Directing warm air straight into the room.

a Must be installed

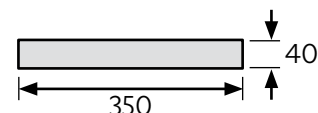


Vent grilles & plates cut-outs

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

a b

For Command Centre width 395mm



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.

Optional air inlet vents grilles

If installing in a small or warm space use an optional inlet vent grille.

The inlet vent is positioned in the cupboard side, door or floor.

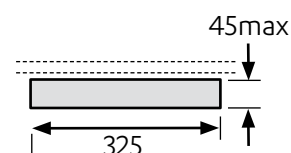
Observe 100mm inlet / exhaust vent separation.

For vent installation options, refer to the instructions with the vents.

c Door or side air inlet vent grille.



c Cupboard floor air inlet vent grille.



Kick space grille

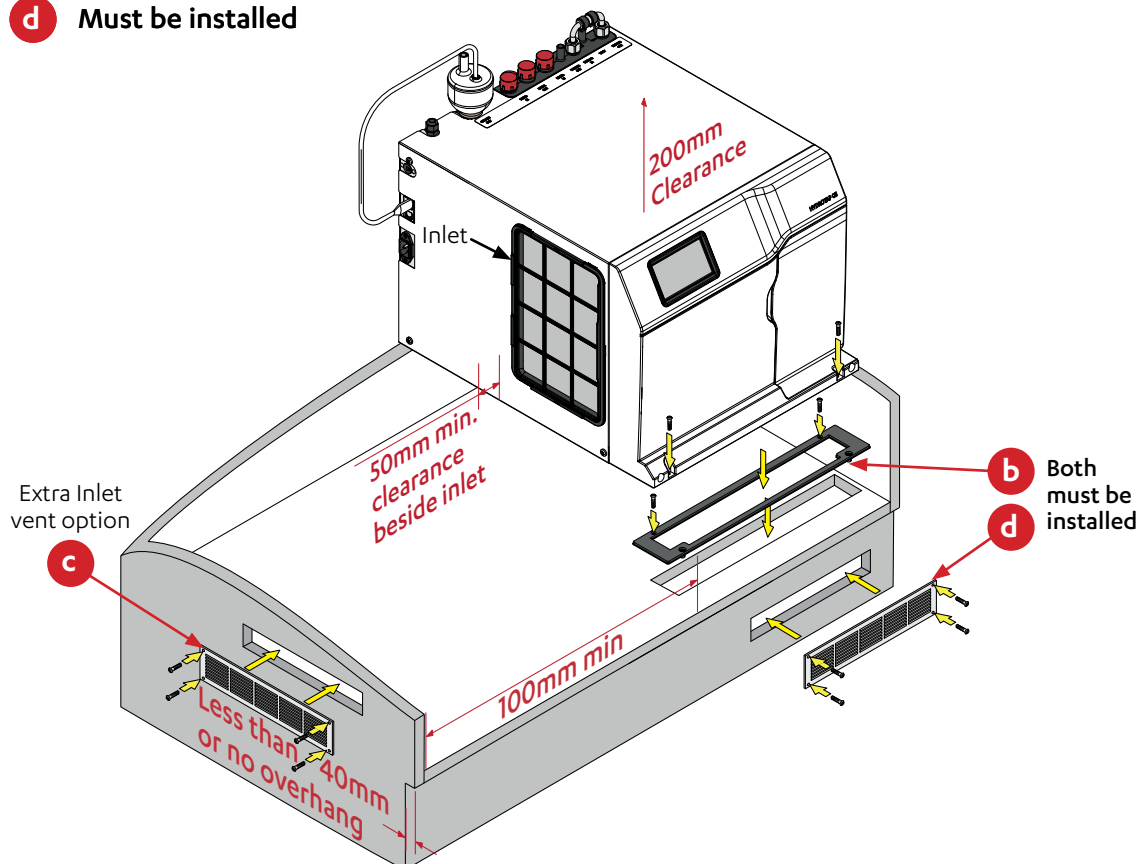
d Mandatory for overhangs less than 40mm.



BCU40, BCU60, BCU100 ventilation options, continued

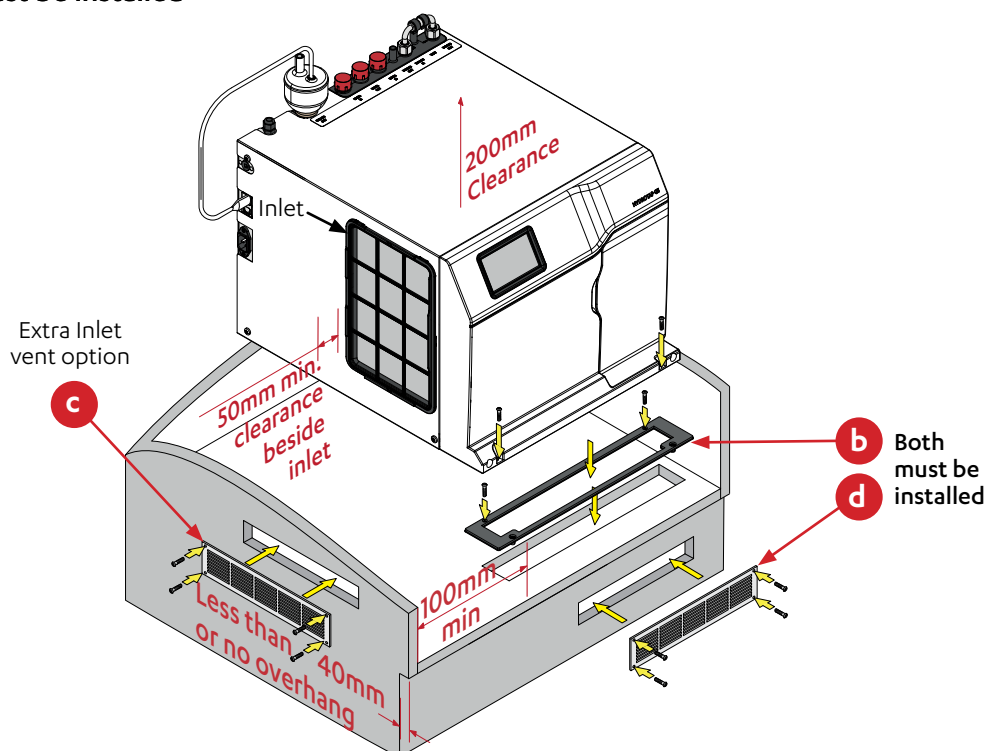
Option 3: Ventilation arrangement if using a large cupboard with less than 40mm, or no overhang.
Directing warm air into the kick space & out through a vent grille.

(b) (d) Must be installed



Option 4: Ventilation arrangement if 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



Section 3 Ancillary Installations - Install Rail installation (UK only)

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

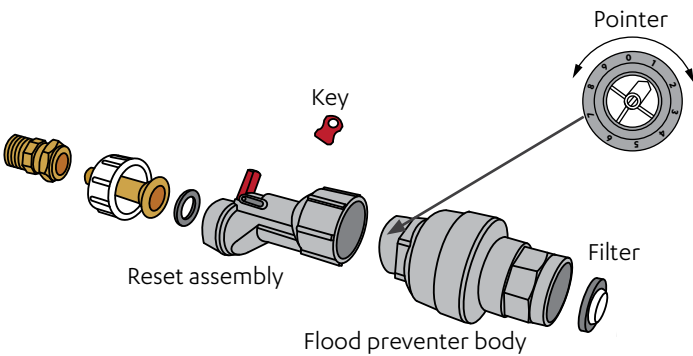


The install rail must be installed vertically with the direction of flow downwards (inlet at the top, outlet at the bottom).

- 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.

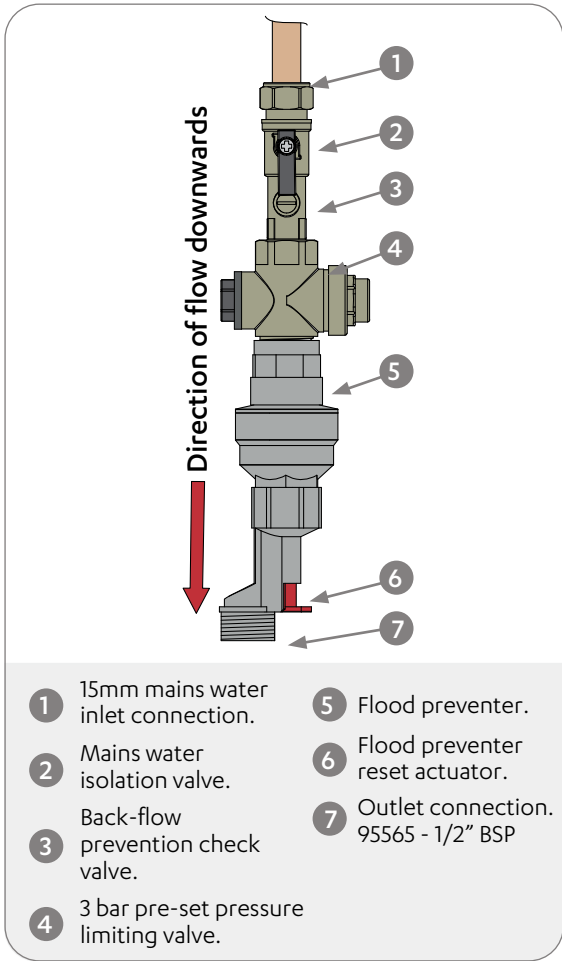


- To adjust the maximum flow rate of the flood preventer trigger :
- Turn off the mains water isolation valve.
- Unscrew flood preventer from isolation valve.
- Unscrew the reset assembly from the flood preventer body.
- Turn the pointer with the key supplied to the maximum acceptable flow rate.
- Scale :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).

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.

Install Rail features



Section 3 Ancillary Installations - Connect to the water supply

Connect the braided hose to the mains water supply



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



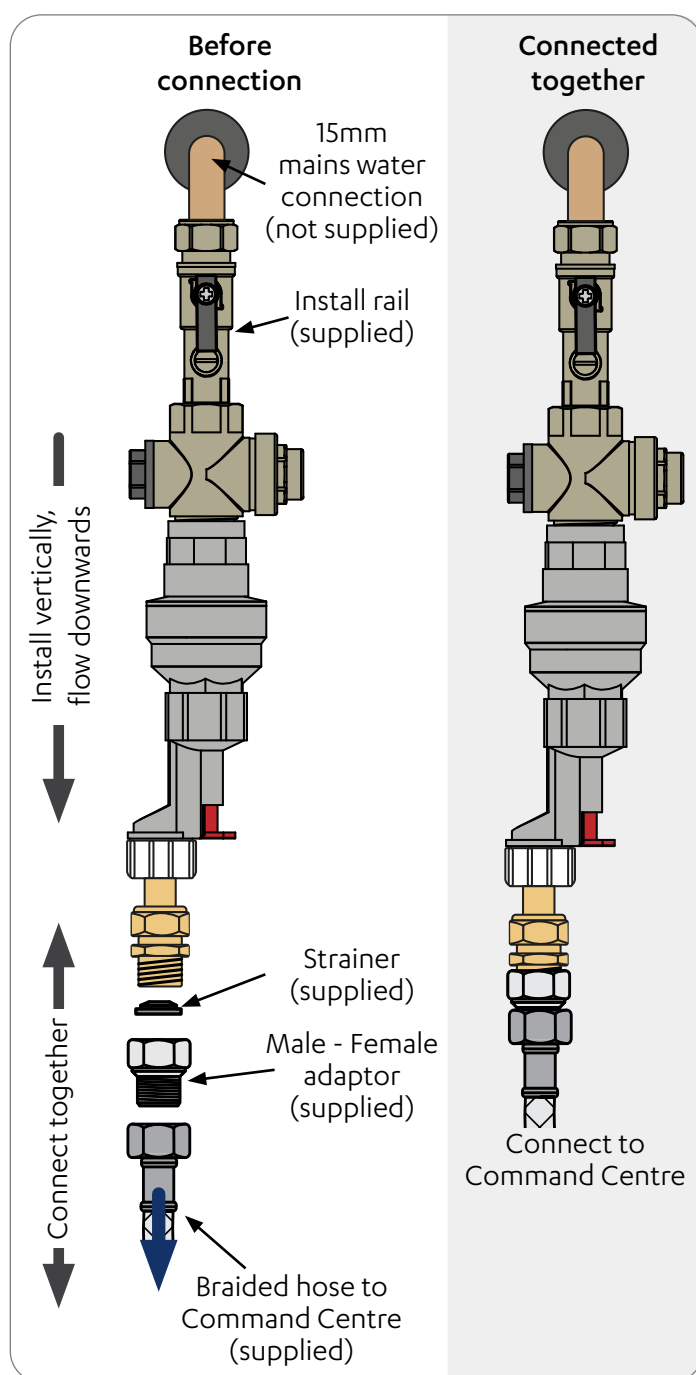
Note correct strainer orientation.

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.

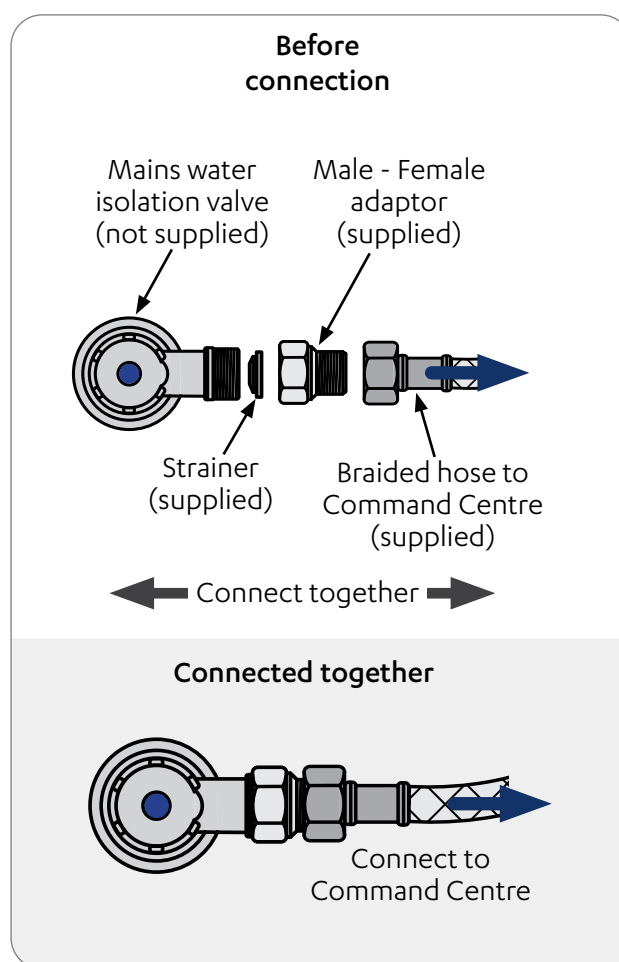
UK connections



Use instructions supplied with Install rail



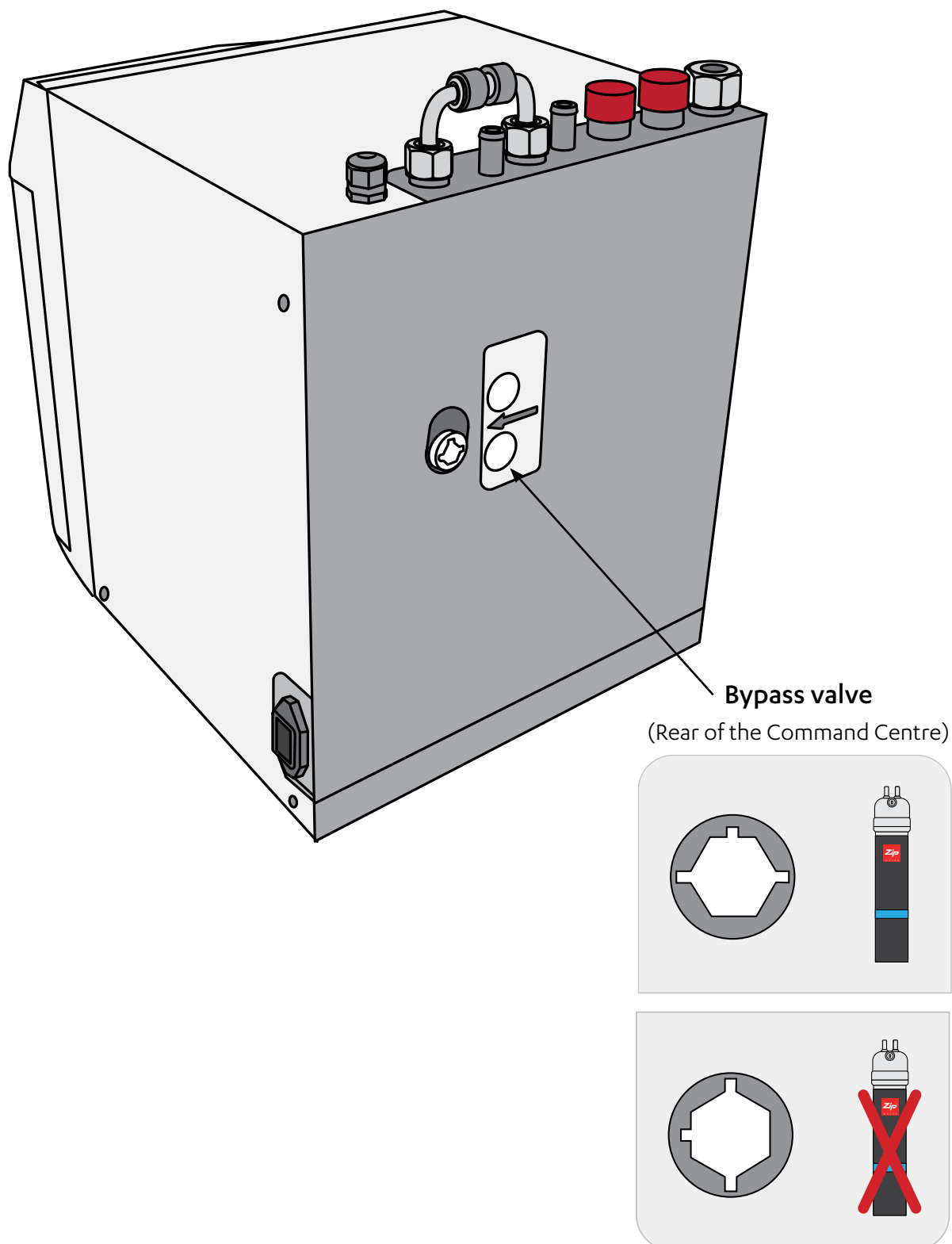
Australia connections



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.



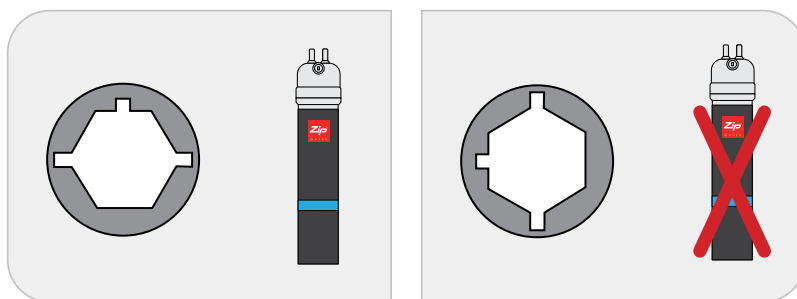
For Limescale filter installation instructions, scan the QR code on the Limescale filter carton.



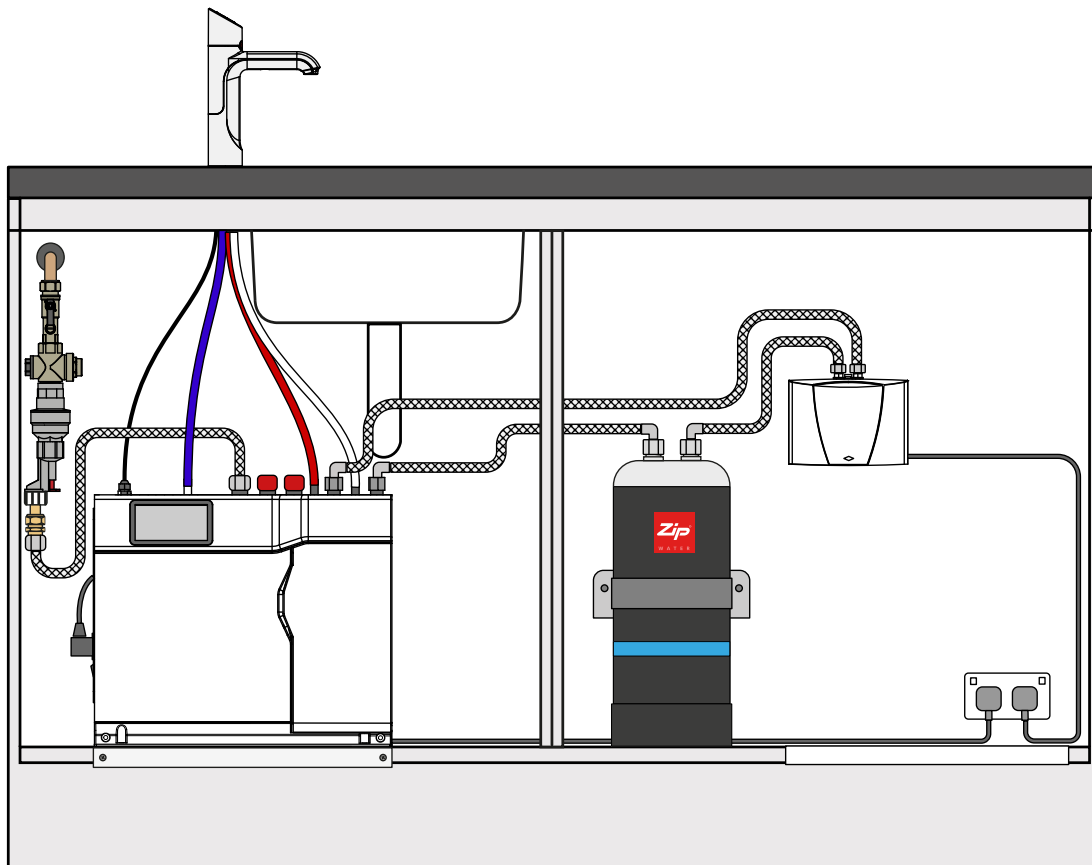
Place the filter in position vertically on a stable surface sufficiently robust to support its weight. Ensure that the fibre washers supplied are fitted in the threaded hose ends. Flush the filter before use.

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).

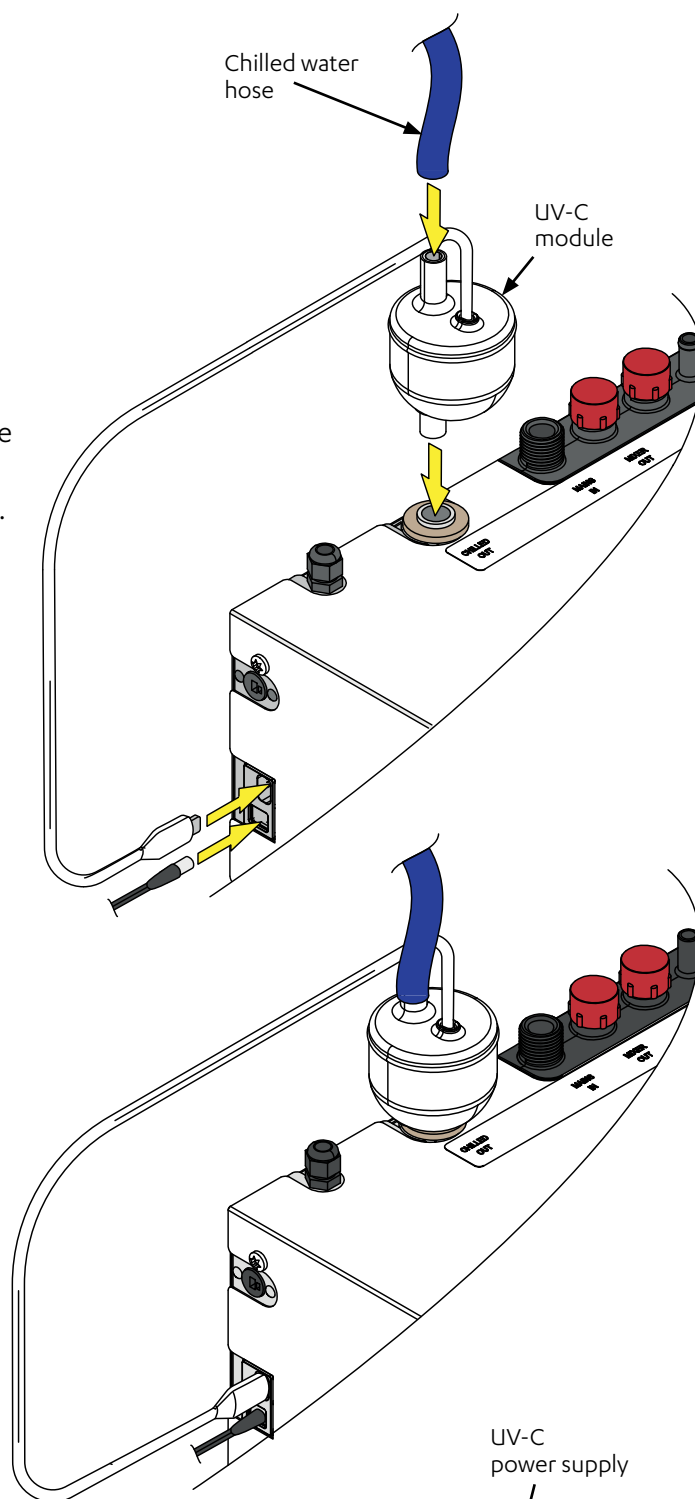


UV-C Module

- Connect chilled water hose to UV-C module. Push hose at least 15mm over the fittings.
- Ensure that the hose has a constant fall.
- Insert UV-C module into the port marked CHILLED OUT.
- Plug USB cable from UV-C module into the port at the side of the Command Centre.
- The USB cable can be inserted either direction (no polarity).
- Plug the 12V UV-C module power supply into the Command Centre.
- Insert all connectors square on & firmly in place.
- Do not apply off axis or lateral force to the connections.



Do not switch on the Command Centre electricity supply until commissioning the system

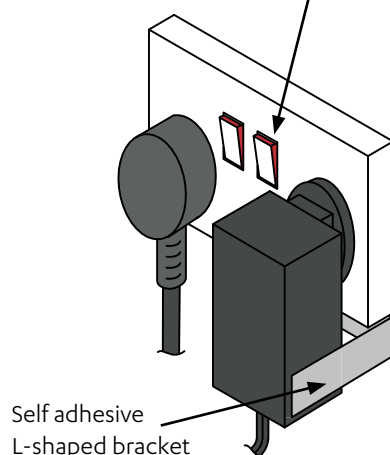


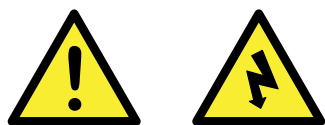
UV-C Power supply & bracket



Use only the power supply provided

- Connect the UV-C power supply to the power outlet
- Ensure the self adhesive L-shaped bracket (supplied) is fitted in position, this will protect the power supply from accidental disconnection.

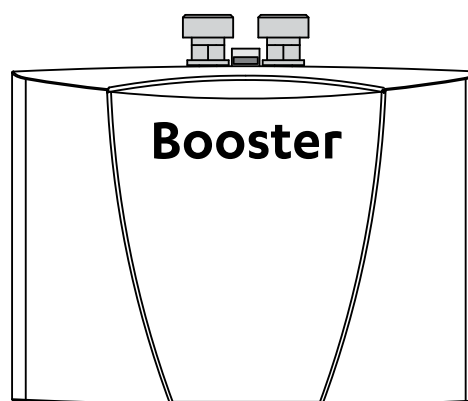




An external booster heater is supplied, or may be purchased as an upgrade to increase Boiling capacity, with selected commercial boiling models.

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.

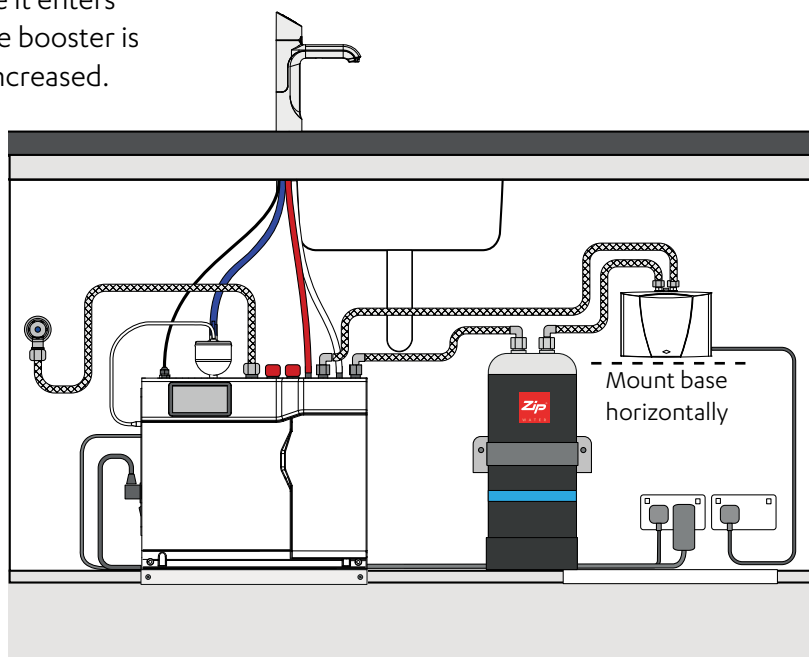
The braided hoses cannot be lengthened.

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

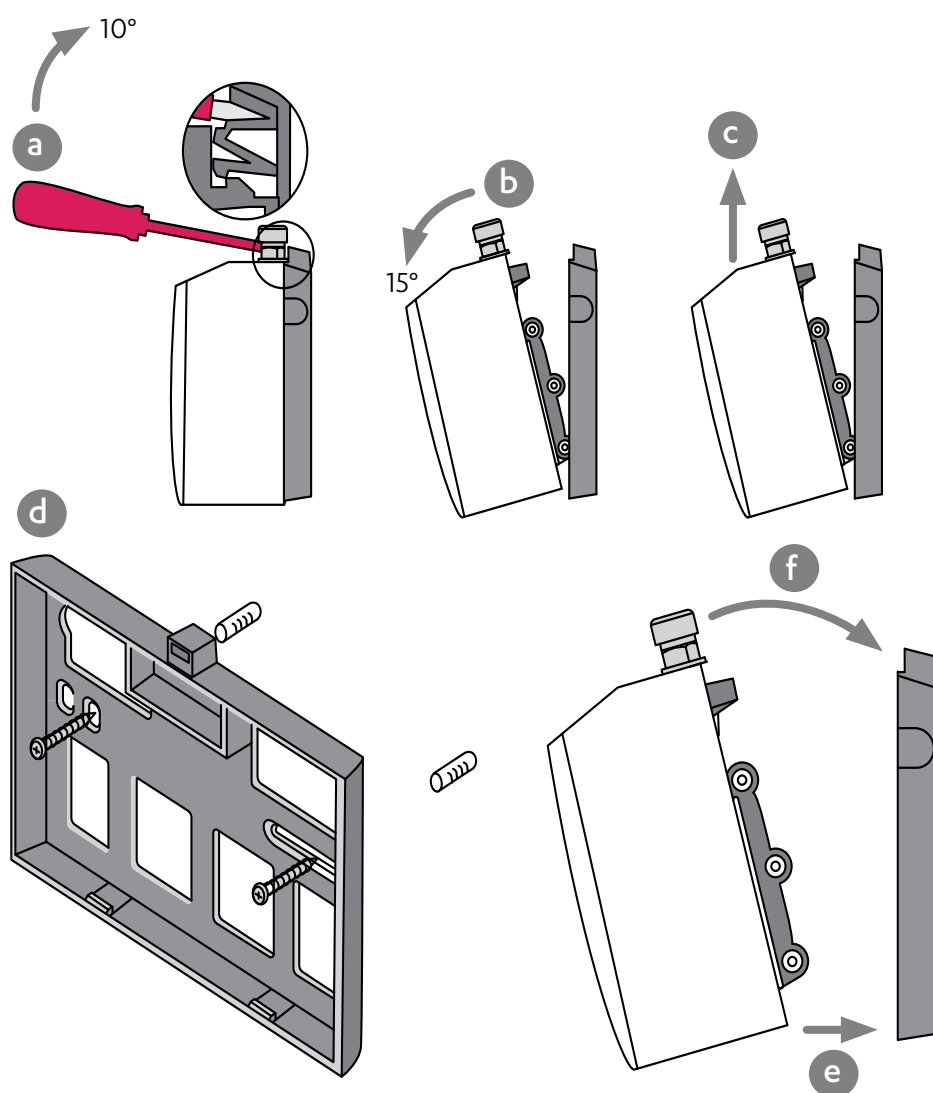
- Booster must only be installed in a frost-free area. Never expose booster to frost.
- The booster is designed for wall mounted installation and must be installed with water connectors facing upwards.
- The booster is protected against water ingress to class IP 20.
- The braided hoses supplied with 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.



Section 3 Ancillary Installations - Booster system installation

Note 1 This appliance is intended for use with the Zip HydroTap G5 Command Centre.

Note 2 Water connections must be pointing vertically upwards.

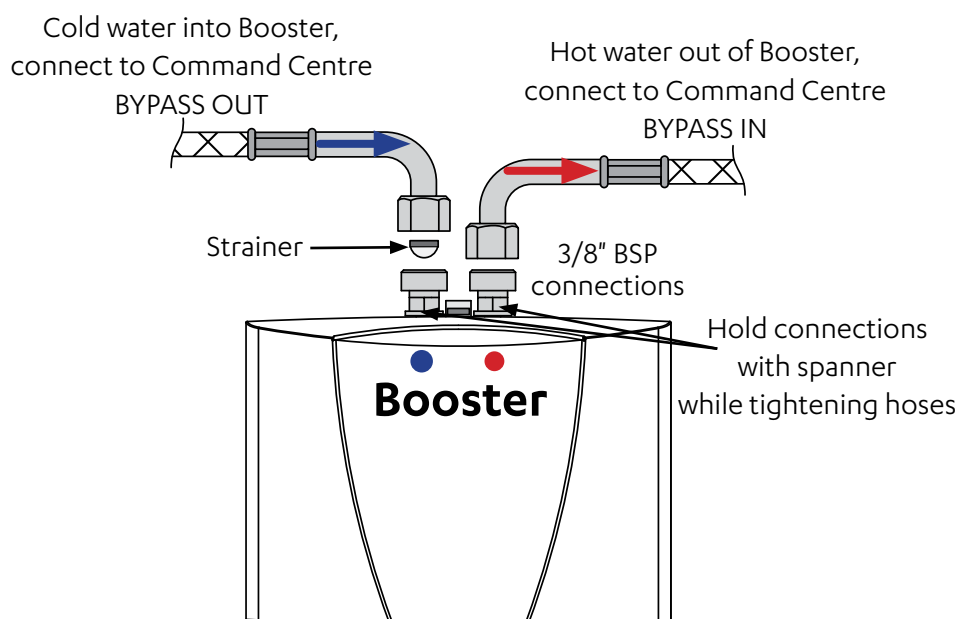
Note 3 The booster unit should be installed as close as possible to the Zip HydroTap G5 as the connection hoses cannot be lengthened.

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.



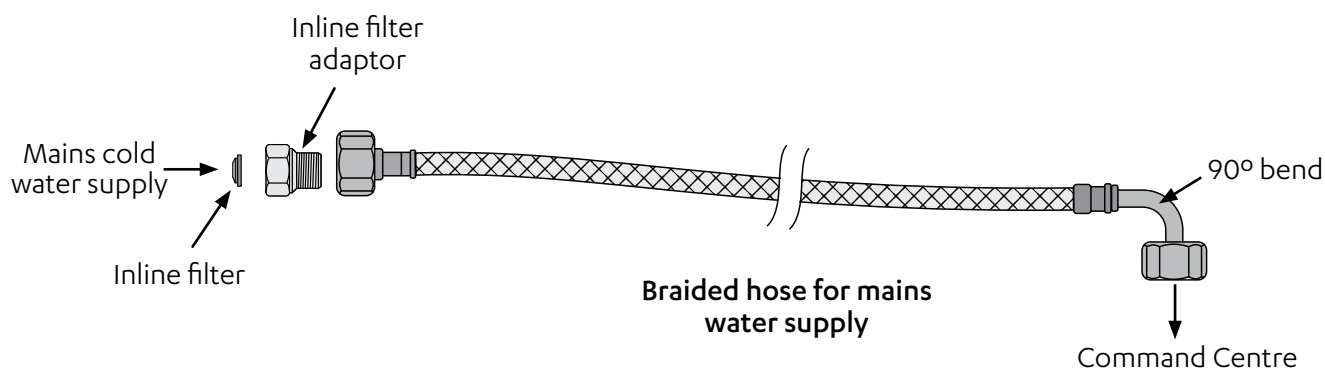
Section 4 Command Centre installation

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.

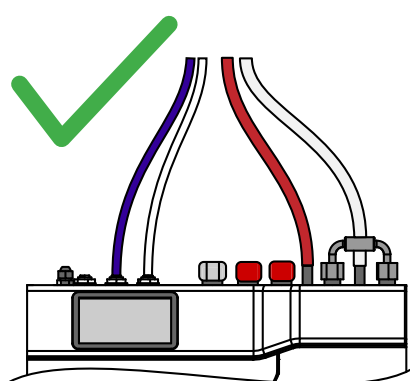
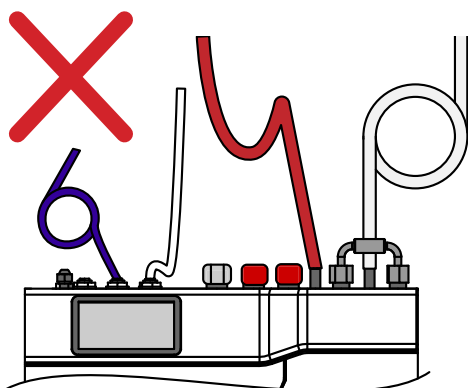


Tubes and pipes

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

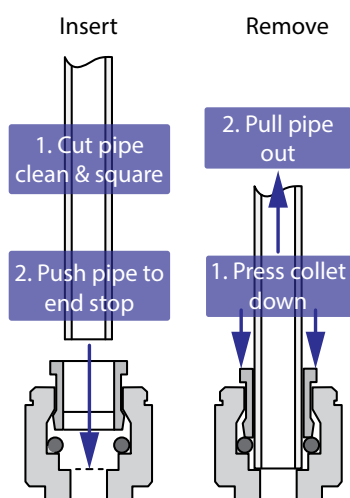
Tips for connection

- Push the silicone hose over the connector for a minimum of 15mm.
- Ensure there is 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.

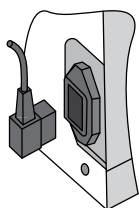


John Guest pipe and fittings

Take care to use correctly, see below :



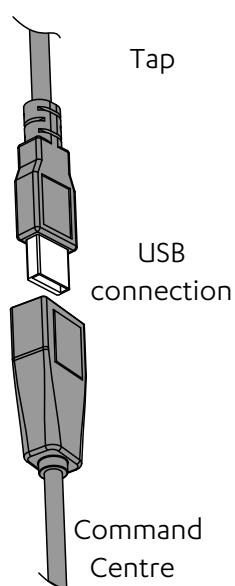
Mains power cable



Do not connect to the mains socket until commissioning

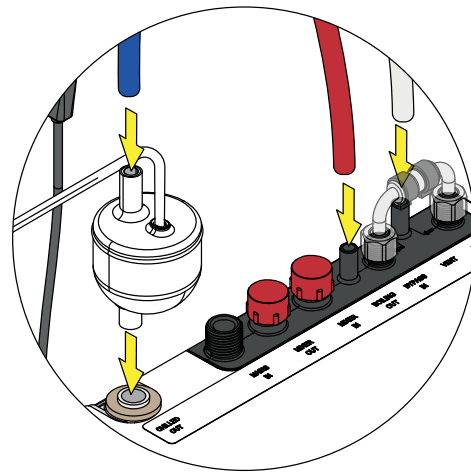
USB

Connect Command Centre to HydroTap.

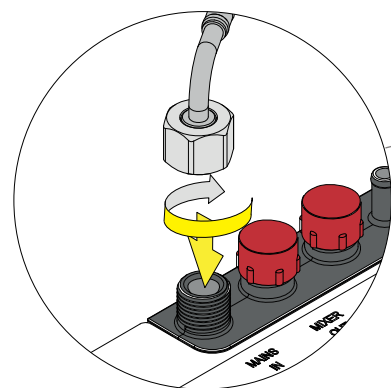


BCU40, BCU60 models, General layout

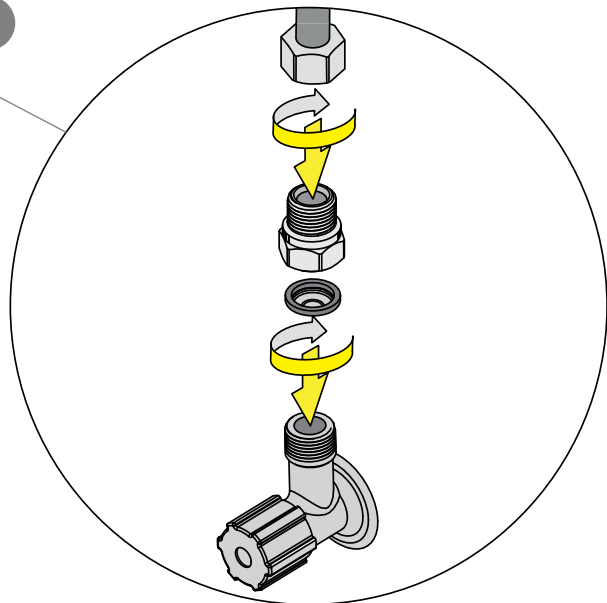
- 1 Command Centre
- 2 Mains electrical power connector
- 3 Tap - Command Centre USB
- 4 Tap
- 5 Mains water supply
- 6 UV-C module



Tap connections



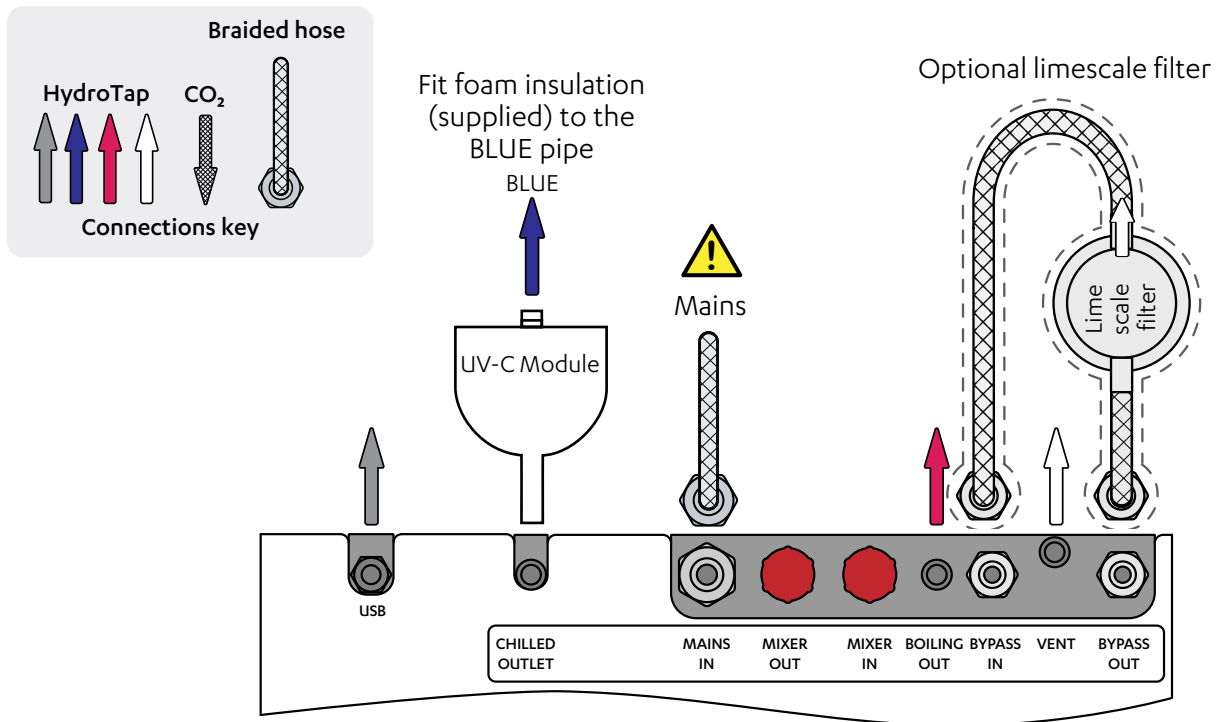
Mains braided hose - Command Centre manifold



Mains braided hose - Command Centre Water supply connection

 For UK, use install rail

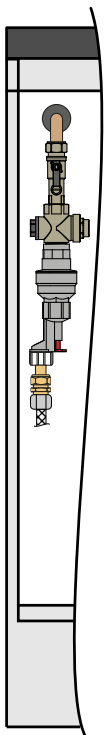
BCU40, BCU60 HydroTap G5 models Command Centre connections



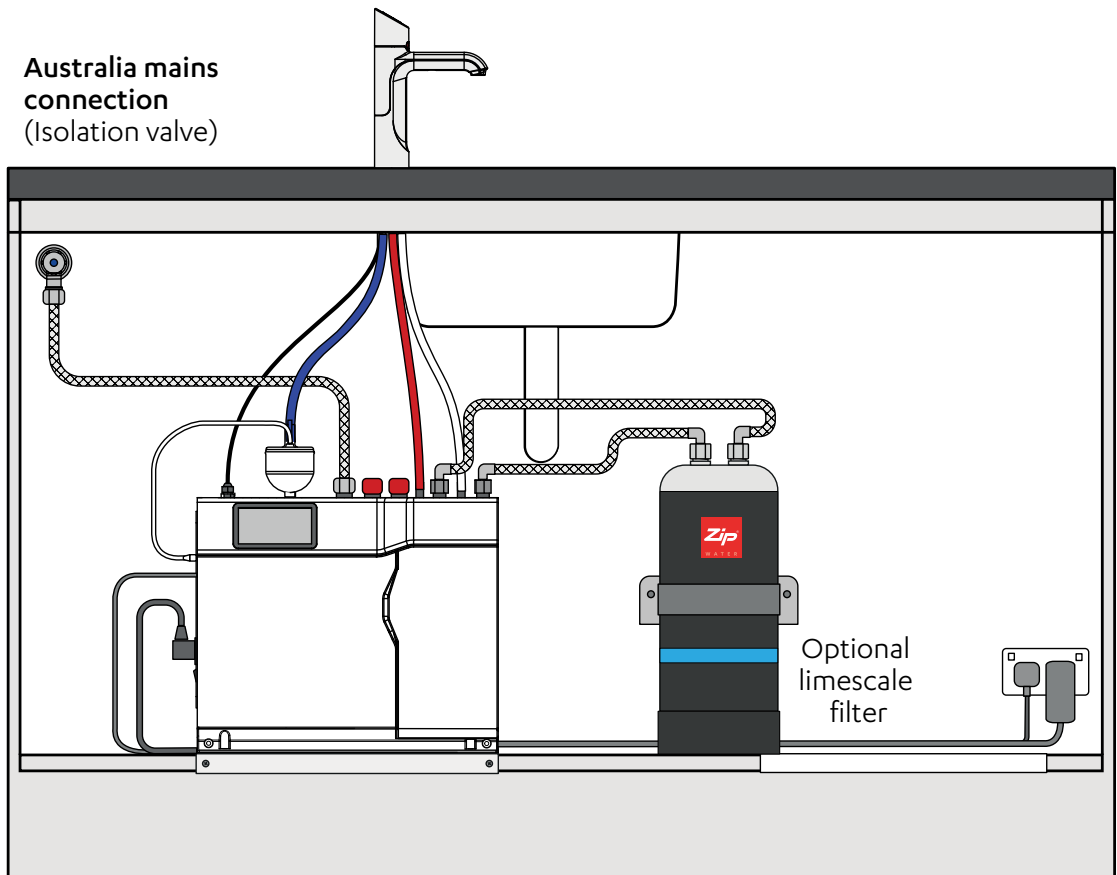
Example Installations

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

UK mains connection
(install rail)

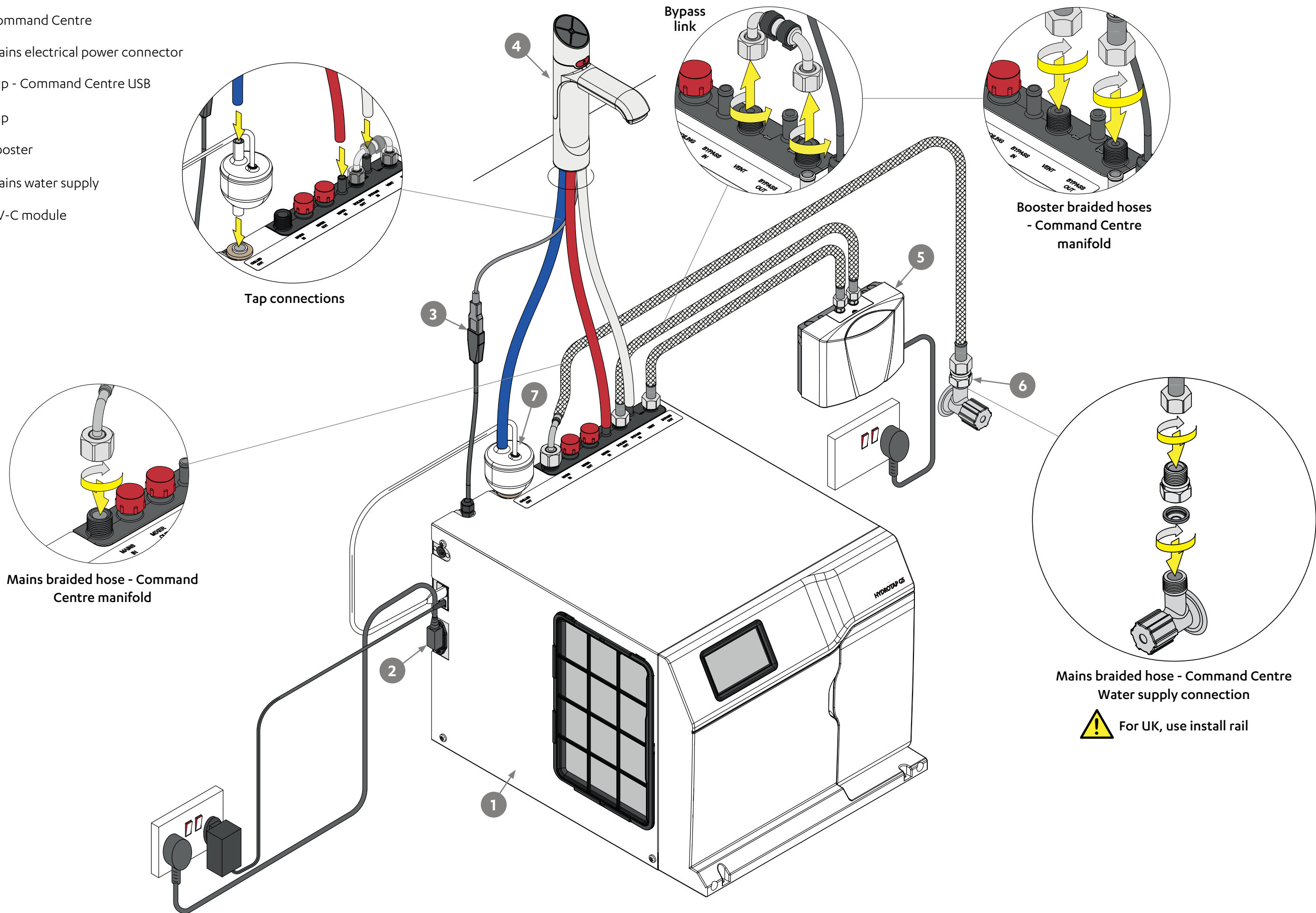


Australia mains connection
(Isolation valve)

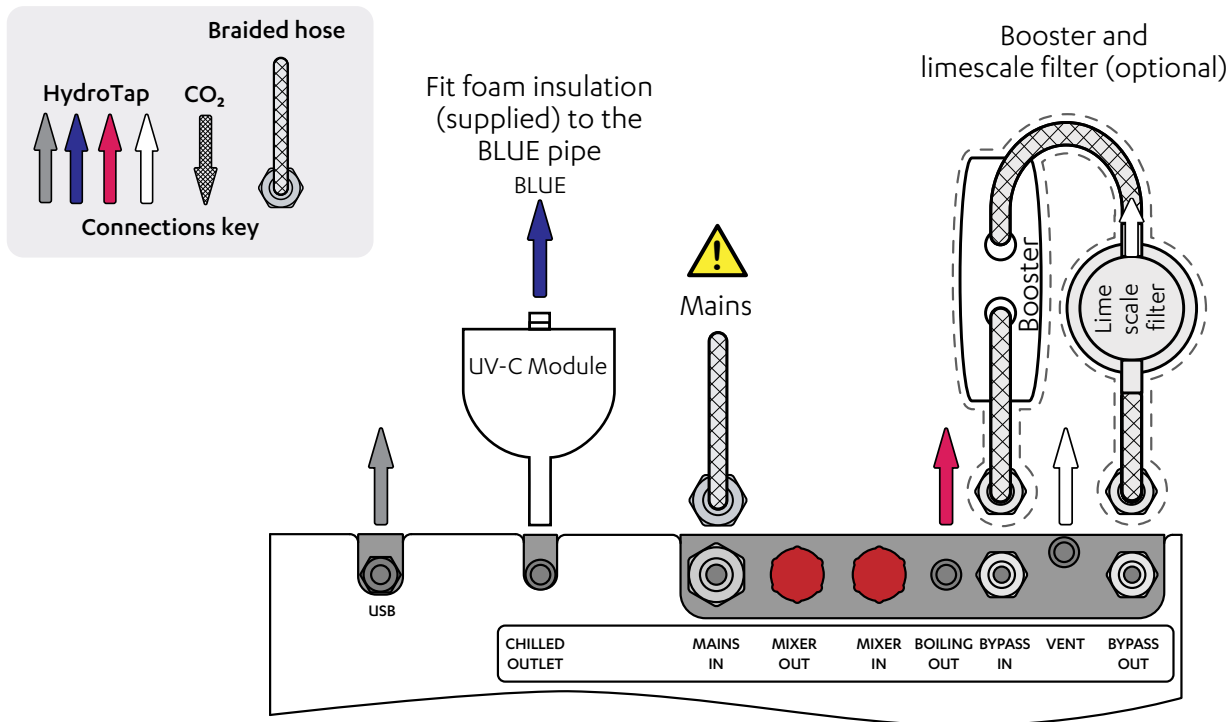


BCU100 models, General layout

- 1 Command Centre
- 2 Mains electrical power connector
- 3 Tap - Command Centre USB
- 4 Tap
- 5 Booster
- 6 Mains water supply
- 7 UV-C module



BCU100 HydroTap G5 models Command Centre connections



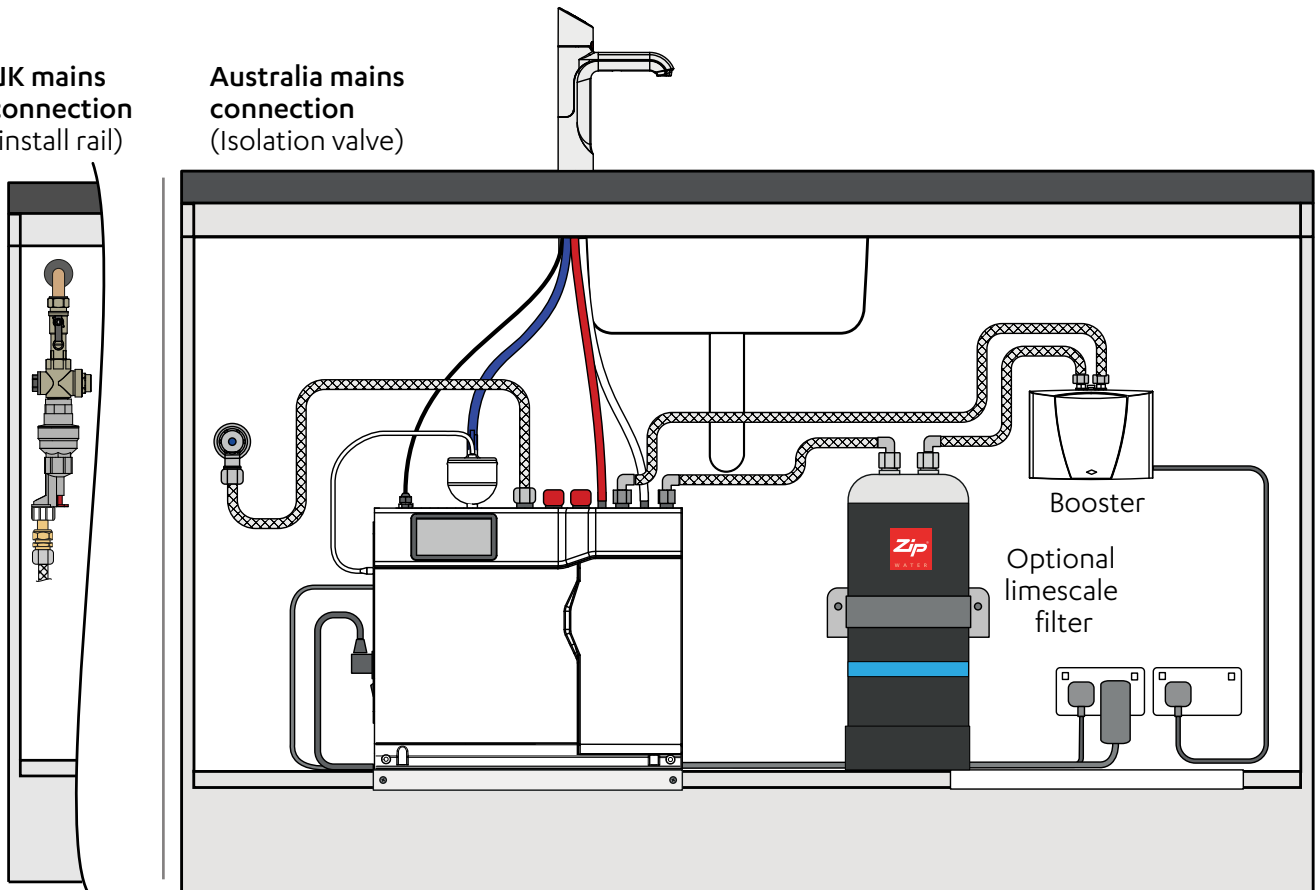
Example Installations

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)



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.

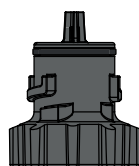
The HydroTap Clean solution is:

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

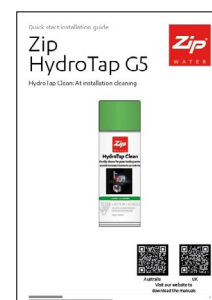
Parts supplied with the HydroTap Clean kit	Qty
HydroTap Clean can adapter (1) (used in filter head)	1
HydroTap Clean can (2)	1
HydroTap Clean instructions	1



HydroTap Clean adapter (1)



HydroTap Clean can (2)



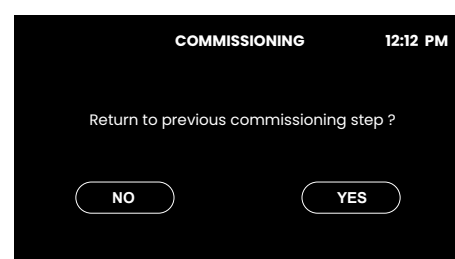
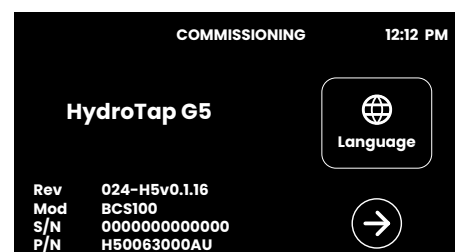
HydroTap Clean instructions



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

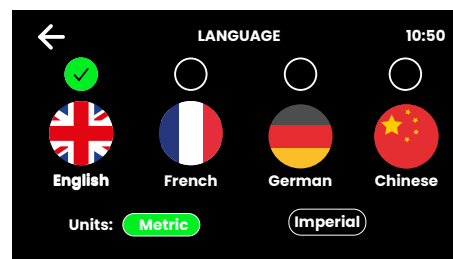
Turn on the supplies & familiarise yourself with the system

- 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.



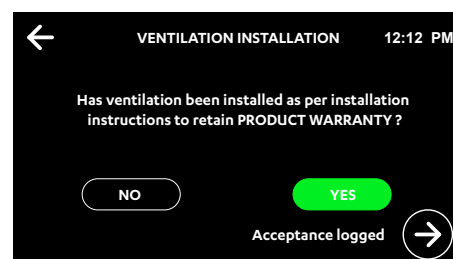
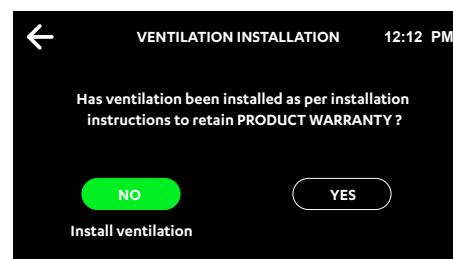
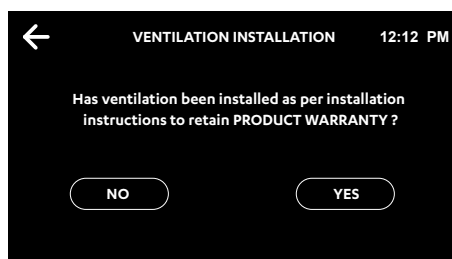
Select the language

- 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.

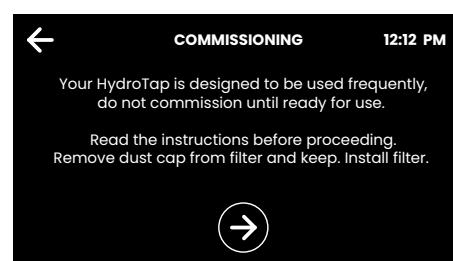


Confirm that the ventilation system has been installed

- 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.

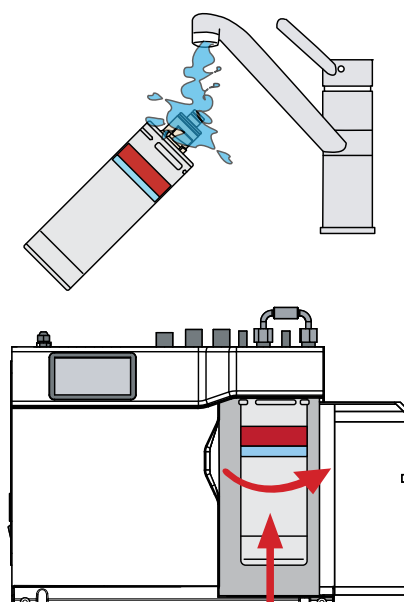


- Read the commissioning information, touch the forward arrow to go to the next screen.
- (Touch the back arrow to go back to previous menu).



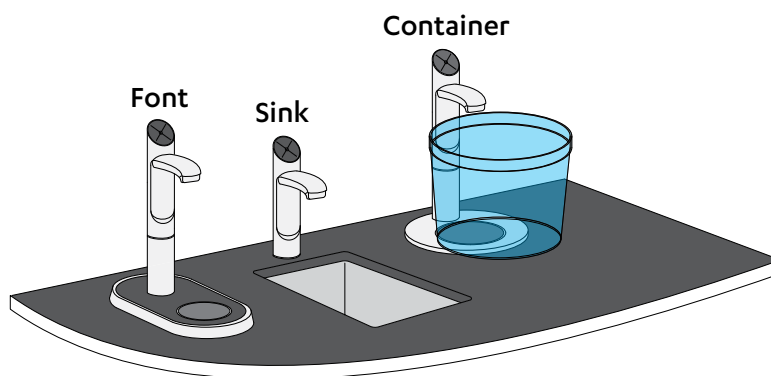
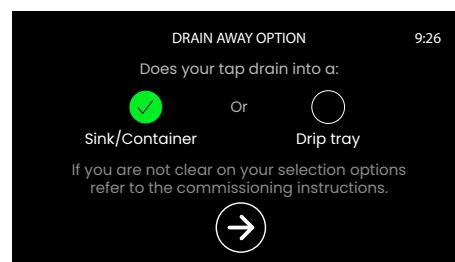
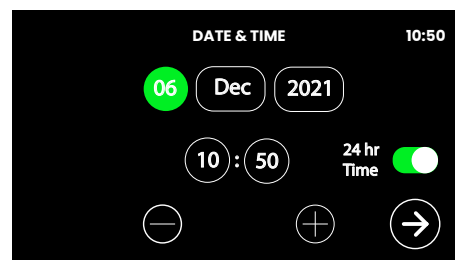
Install the filter cartridge

- 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.



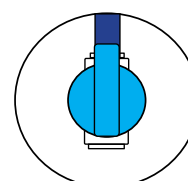
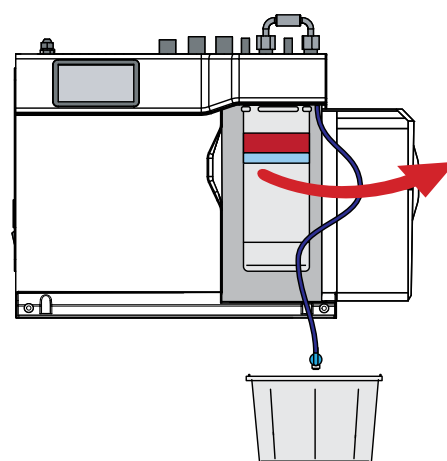
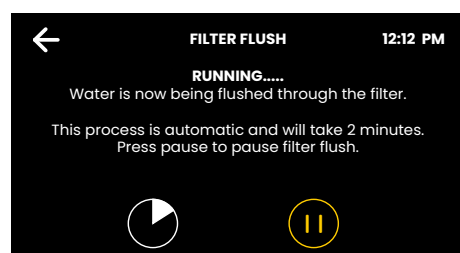
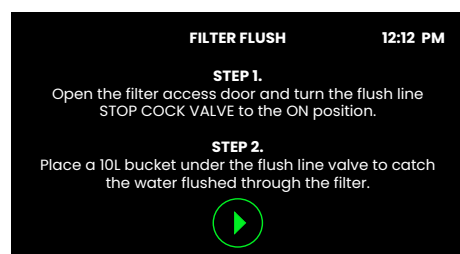
Set the date, time & drain away options

- 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.

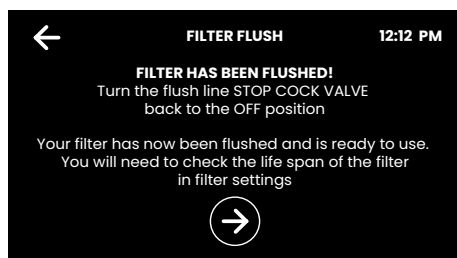


Filter flush

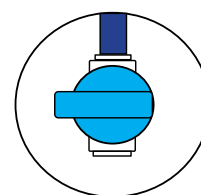
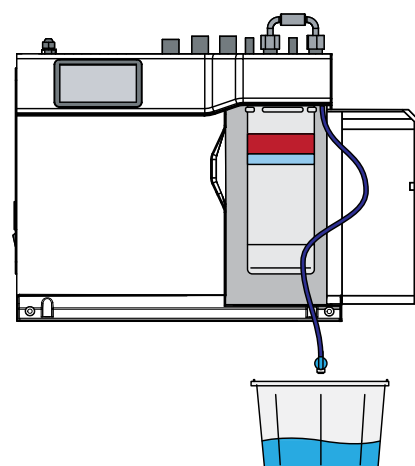
- Follow the steps on-screen to flush the filter.
- Open filter door & uncoil flush line.
- Direct flush line into bucket.
- Place a cloth or towel under the filter cartridge to catch any water that may spill.
- Open the stop cock valve.
- Start filter flush.



Stop cock valve open



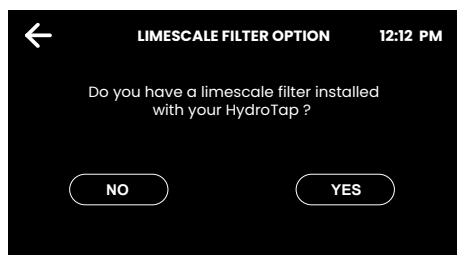
- Once the filter flush is finished, close the stop cock valve.
- Wipe up any spills.
- Close the door to secure the appliance.



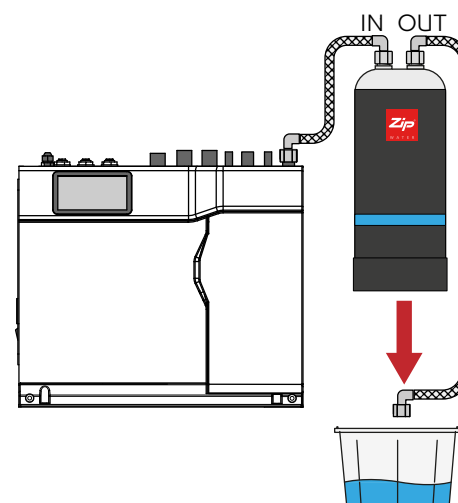
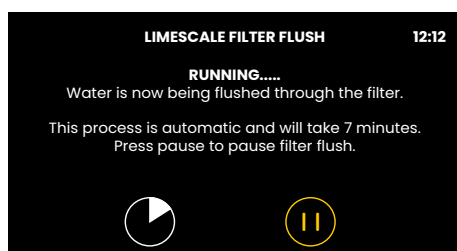
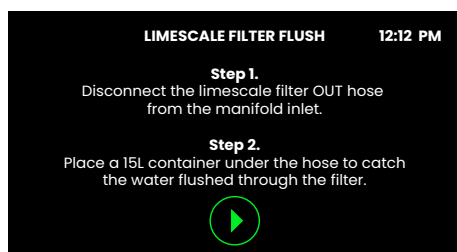
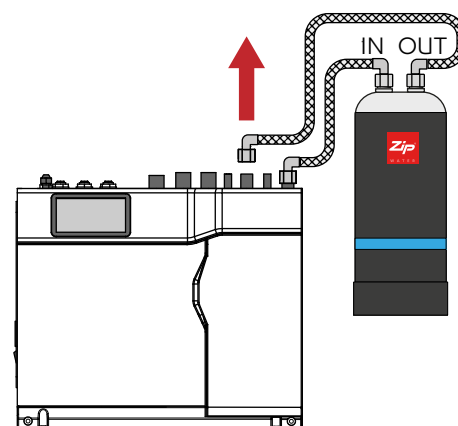
Stop cock valve closed

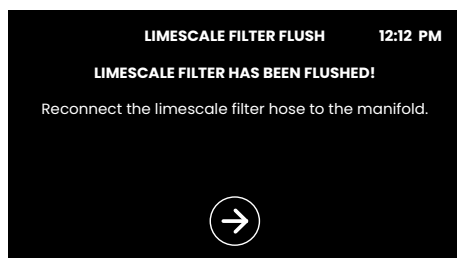
Limescale filter flush (If optional limescale filter is installed, UK models only)

- 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.





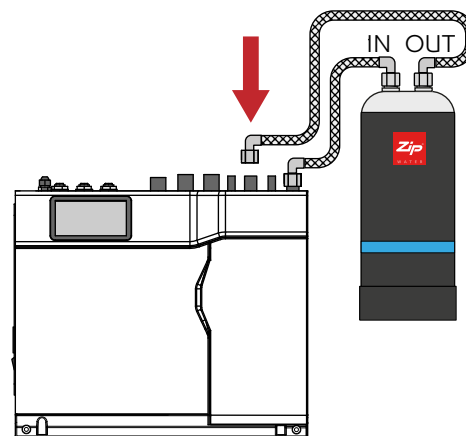
- Once the filter flush is finished, reconnect the limescale filter OUT hose to the Command Centre manifold.
- Touch the arrow to go to the next screen.

System priming

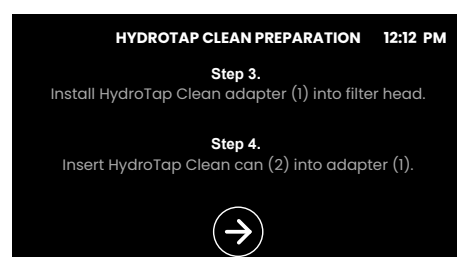
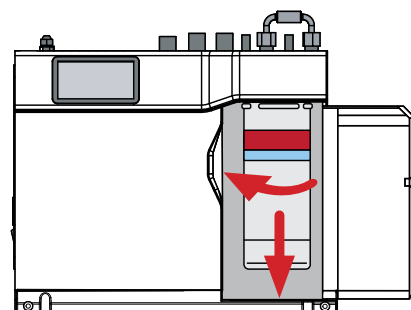
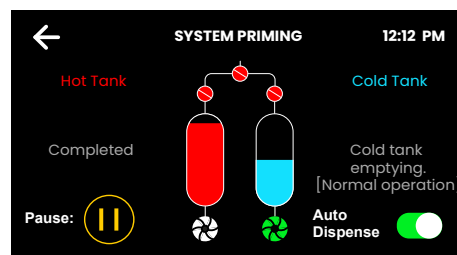
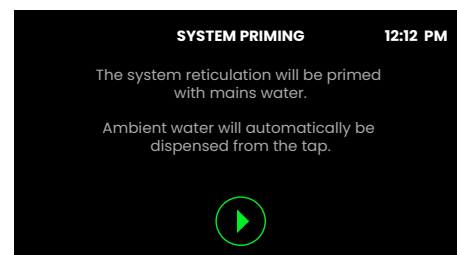
- Read the on screen information.
- Touch the run arrow to go to the next screen.
- Monitor the on screen information.
- **Note** if 'Font' has been selected on the drain away option and auto dispense is disabled on entry into this screen; the screen prompts the user to dispense using the tap during 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.

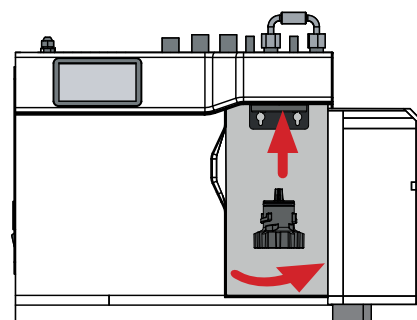
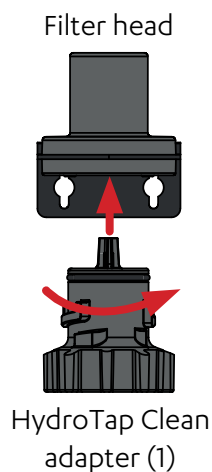


BC, BA, C



Section 5 Commissioning

- 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.

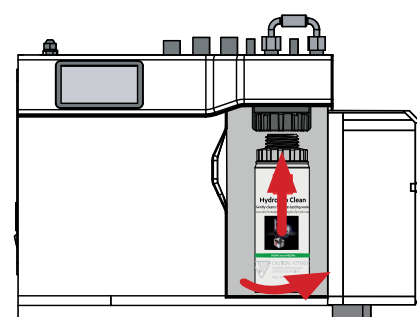


- Remove the lid from the HydroTap Clean can (2).

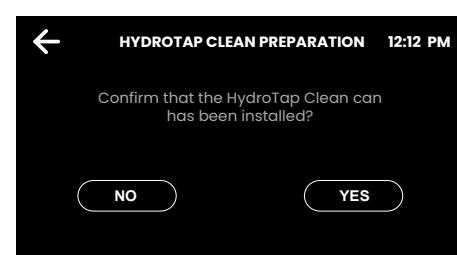


- Screw the HydroTap Clean can (2) into the adapter (already installed into the filter head).

Filter head and HydroTap Clean adapter (1)

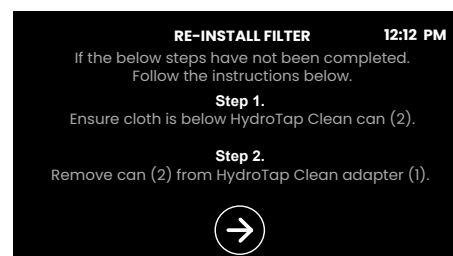
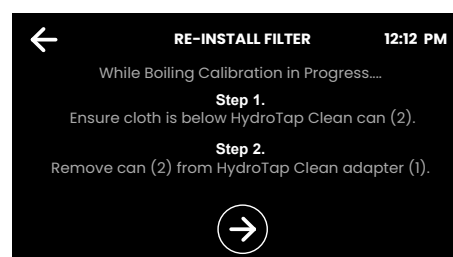
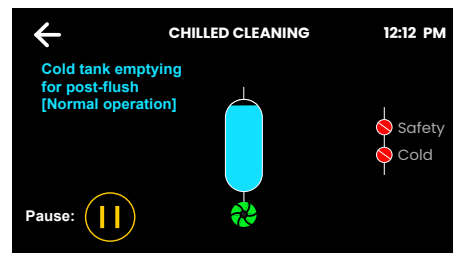
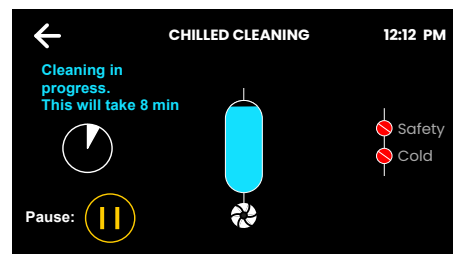
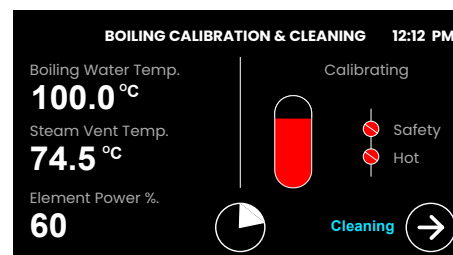
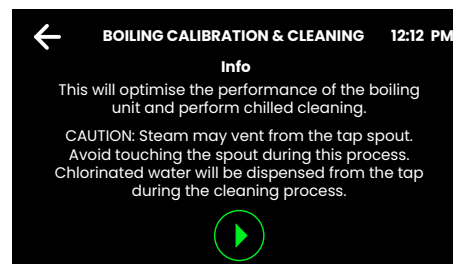


- Confirm installation of the HydroTap Clean can by selecting YES on the screen.



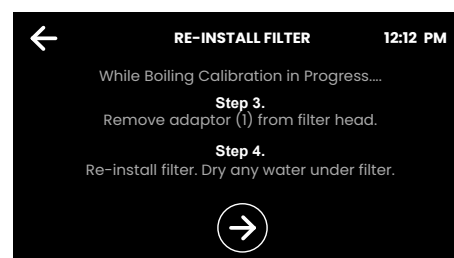
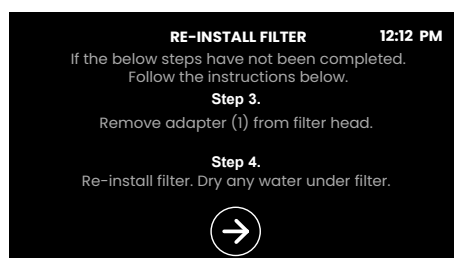
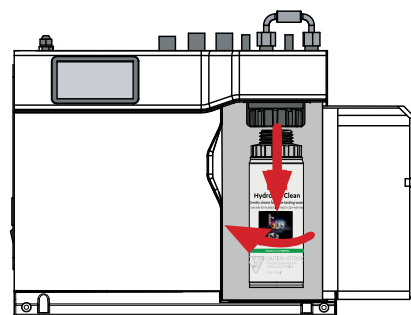
Boiling calibration and cleaning

- Read the on screen information.
 - BC 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.

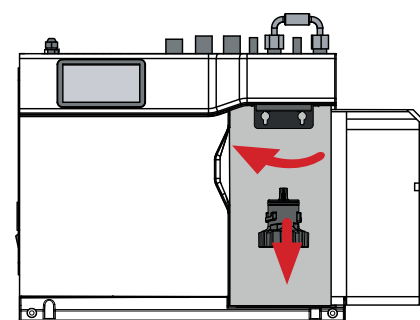


Section 5 Commissioning

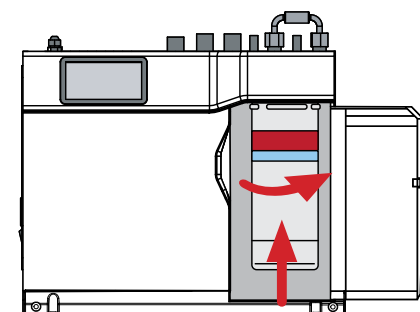
- Unscrew the HydroTap Clean can (2).
- Ensure to hold the adapter in place while unscrewing the can.



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

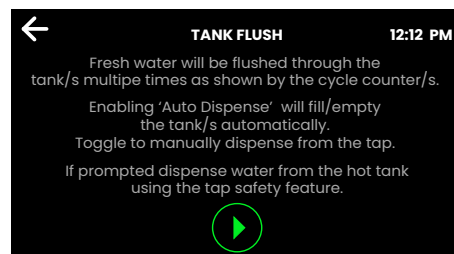


- Remove the dust cap and re-install the filter.
- Touch forward arrow on screen to continue.



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.

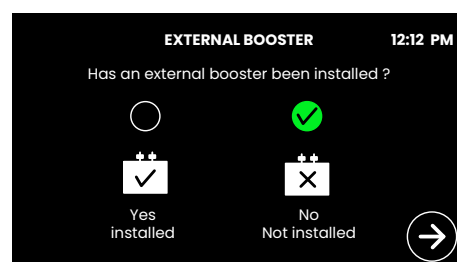
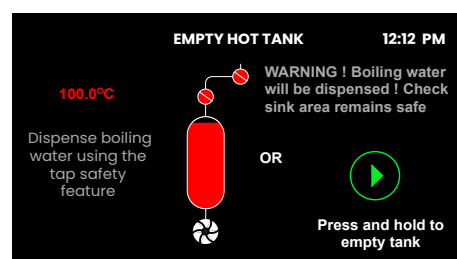
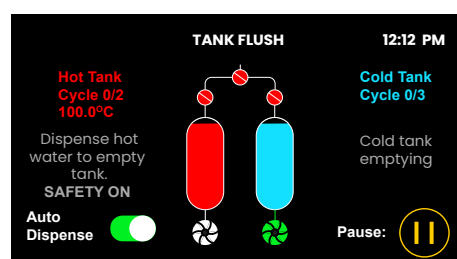
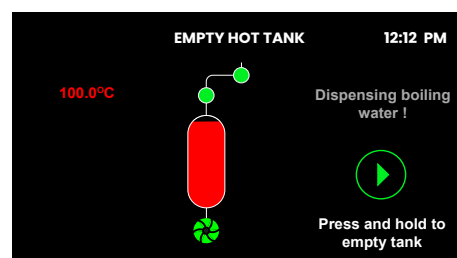
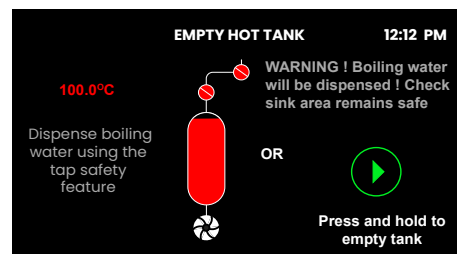
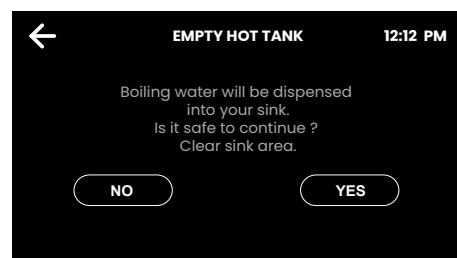


Section 5 Commissioning

- 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 BC models :
 - The hot tank will cycle twice.
 - The cold tank will cycle three times.
- **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.

Select the booster

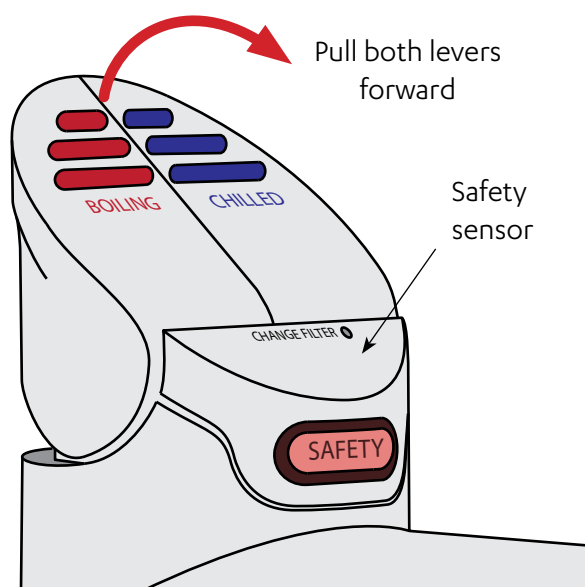
- Read the on screen instructions.
- Select the appropriate option.
- Select :
 - Booster installed for all BCU100 models.
 - Booster NOT installed for all BCU60, BCU40 models.



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 Troubleshooting

The HydroTap tap lights will flash to indicate when service is required. Refer to the LCD screen in the Command Centre.

Call your local Zip service provider for assistance, service, spare parts or enquiries.

System fault message	Possible cause	Recommended action
Power board fault	Electrical disruption	Check power supply and all fuses
Interface fault	Internal fault	Call Zip Service
Level board fault	Internal fault	Call Zip Service
Condenser screen blocked	Blocked Air filter	Remove blockage, clean filter - check user guide
Water leak, Isolate mains	Water leak	Turn off mains water supply / Call for service
Compressor over-run	Compressor too Hot	Check ventilation
Water supply failed	No water	Check water supply is turned ON
Hot sensor Open	Internal fault	Call Zip Service
Hot sensor Closed	Internal fault	Call Zip Service
Cold sensor Open	Internal fault	Call Zip Service
Cold sensor Closed	Internal fault	Call Zip Service
Flood sensor Open	Internal fault	Call Zip Service
Condenser sensor Closed	Internal fault	Check ventilation / Call Zip Service
Condenser sensor Open	Internal fault	Check ventilation / Call Zip service
Heater fuse / driver fault	Internal fault	Call Zip Service
Heater driver fault	No hot water	Call Zip Service
Compressor driver fault	No chilled water	Call Zip Service
Hot sensor degraded	Internal fault	Call Zip Service
Condenser overtemp.	Blocked air filter	Remove blockage, clean filter - check user guide
A DC Pump is faulty	Internal fault	Call Zip Service
Steam is too cool	Internal fault	Call Zip Service
Steam sensor Open	Internal fault	Call Zip Service
Steam sensor Closed	Internal fault	Call Zip Service
Over Steamed	Internal fault	Call Zip Service
Hot tank overfilled	Internal fault	Call Zip Service
Comp Fuse/Driver Fault	Internal fault	Call Zip Service
Hot tank under filled	Low water pressure	Check water supply
Boil dry protection	Safety activated	Turn OFF / On power to reset
Flash Mem corrupted	Internal fault	Call Zip Service
Flow Sensor Fault	Internal fault	Call Zip Service

Section 6 Troubleshooting

The UltraCare UV-C Module may cause the following fault codes.

System fault message	Possible cause	Recommended action	Fault stops showing when:
UV Not Present	a. UV-C Module USB-C cable is not connected correctly to the UV PCB b. UV-C Module cable is faulty c. UV IO PCB is faulty	Check that the UV-C Module USB cable is correctly plugged into the HydroTap	UV-C Module is connected properly (power does not have to be on)
UV Over Temp Internal temperature is greater than 55°C	a. There is a kink in the hose preventing cold water being dispensed b. Cold Pump is not dispensing water c. UV-C Module is faulty d. UV PCB is faulty	Verify that water is flowing through the UV-C Module when attempting to dispense	UV-C Module cools down and reports that its internal temperature has returned to 40°C or lower
UV Under Current Tried to dispense cold water and current of UV-C Module not at minimum threshold.	a. The 12V external power supply is not connected to the mains power outlet and/or the G5 HydroTap b. The 12V external power supply is faulty c. UV-C Module is faulty d. UV IO PCB is faulty	Check power supply is correctly plugged in and turned on. Turn the HydroTap off and then on.	Power turned off, then on.
UV Over Current Tried to dispense cold water and current of UV filter greater than maximum threshold.	a. UV-C Module is faulty b. UV PCB is faulty	Turn power off, then on.	Power turned off, then on.
UV Comms Error No communication to the UV IO PCB.	a. UV PCB is faulty b. Ribbon cable connecting the UV PCB and the LCD PCB is faulty.	N/A	Communication restored.

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.

Zip HydroTap UltraCare UV-C Module

809283 (MicroPurity)

Is tested and certified by WQA to NSF/ANSI 55 for Class B disinfection. When the UV-C Module is used with a Zip HydroTap System, flow rate must be at maximum of 2.8 L/min or less to be valid.



Manufacturer

Zip Heaters (Aust) Pty. Ltd
67 Allingham Street, Condell Park NSW 2200
Australia. Tel: +61 2 97 96 3100

Performance data

Testing Conditions and Results:

Flow Rate: 2.8 L/min (0.74 gpm)
Max. Pressure: 830 kPa (60 psi)
Capacity: 24,000 litre / 24 months

Operating Conditions:

Electrical characteristic: 12 VDC, 1.6 A
Max. Operating Temperature: 50°C

Replacement UV-C module:

809283 (Spare part number: 96863)

Class B system:

This system or component conforms to NSF/ANSI 55 for the supplemental bactericidal treatment of disinfected public drinking water or other drinking water that has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is only designed to reduce normally occurring non-pathogenic, nuisance microorganisms. Class B systems are not intended for the disinfection of contaminated water. While testing was performed under standard laboratory conditions, actual performance may vary.

General UV-C module installation instructions

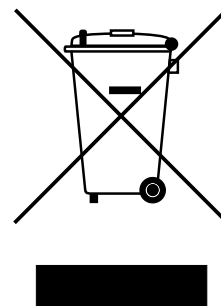
See page 19.

Section 9 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.



Refrigerant gas

This product contains no CFCs or HFCs, which contribute to global warming.

The refrigerating system is filled with HC R290 – Propane: a natural gas that does not contribute to global warming and that, thanks to its specific characteristics, allows for substantial energy savings to be made.



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.