

Quick Start Installation Guide



Zenith HydroTap G5

Command Centre
Boiling/Chilled models



AFFIX PRODUCT LABEL HERE



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download the manuals

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Before you start



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



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

Explanation of symbols



Read the instructions



WARNING



Danger of electric shock



Hot surface



Highly Flammable



Compliance

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

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

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

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

Safety

This appliance is not intended for use by children under 8 years or persons (including children under 8 years) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Refrigerant



The Zenith HydroTap Command Centre range uses either HIGHLY FLAMMABLE R290, R600a or R134A refrigerant under pressure. Check the rating plate or contact Zenith before commencing work.

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

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

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

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 Zenith 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.

SECTION 3: WARNINGS & 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 Zenith HydroTap must be earthed, earthing is provided via the supplied power cord. The resistance of the earth connection to each exposed metal part must be less than 1Ω. Use the power cable supplied. It is the responsibility of the installer to ensure the power point is earthed.
- All installation and service work must be completed by trained and suitably qualified tradespeople. Faulty operation due to unqualified persons working on this product, may void warranty coverage.
- As the installer, it is your responsibility to supply and install all valves as required by local regulations and relevant standards.
- The HydroTap is rated for 220-240V 50Hz AC operation.
- Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.
- Connect only to a potable (wholesome, cat1) mains water supply.
- Never locate the system near, or clean with water jets.
- Do not expose the Zenith HydroTap to the elements of nature. 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.

SECTION 3: WARNINGS & REGULATORY INFORMATION

- 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 connect Booster to electrical supply until commissioning.
- 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 Zenith service provider or a qualified electrician.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- For safe operation, the HydroTap is designed to be installed, commissioned and used within 48 hours. Should the HydroTap not be required for an extended period of time (72 hours or more), do not fill and commission the HydroTap until ready for first use.
- For water taste and quality reasons, following any non-use period of more than 72 hours, Zenith recommends to perform a system flush. Failure to flush the system may affect water quality.
- For UK, this appliance incorporates adequate backflow prevention in accordance to S.I.1999 No.1148 The Water Supply (Water fittings) Regulations 1999 Schedule 2 requirement. No further backflow prevention is required for connection to the water supply.
- 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'.

SECTION 4: Technical data

Model	Power rating kW	Dimensions W x D x H (mm)	Weight (kg)
BC100 BC100 H	2.1 + 2.2*	450 (500) [#] x 470 x 333	30
BC60 BC60 H	2.1	450 (500) [#] x 470 x 333	30
BC40 BC40 H	1.97	450 (500) [#] x 470 x 333	30
BC30 BC30 H	1.9 + 2.2*	280 x 470 x 333	23
BC20 BC20 H	1.9	280 x 470 x 333	23
BC Home	1.44	280 x 470 x 333	30

* power rating of the booster [#]Including vent tray

Electricity supply requirements

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

Without booster	With booster
1x 220 - 240V AC 10A socket	2x 220 - 240V AC 10A sockets

Water supply pressure requirements

Component	Min - Max pressure, kPA (bar)
	NZ/Australia
HydroTap	170 (1.7) - 700 (7.0)
Vented Mixer Tap	300 (3.0) - 700 (7.0)
Booster	200 (2.0) - 700 (7.0)
Limescale filter	200 (2.0) - 700 (7.0)



A pressure limiting valve must be fitted for mains water pressures above the maximum limits stated above in accordance with local plumbing regulations.

Note: All models (excluding UK) have an internal pressure limiting device to reduce the maximum mains regulated pressure (700kPa in NZ/Australia), protecting the system against pressure surges above 500kPa.

Water supply connection

1/2" BSP (G1/2).

Booster specification

Specification	Rating
Nominal power	2.2kW
Nominal current	10A
Flow rate	1.2 L/m

SECTION 5: Parts supplied

Parts supplied with the HydroTap	BC for Work	BC H for Work	BC for Home
Tap			
HydroTap tap	✓		✓
HydroTap pipes, tubes hoses and fittings	✓		✓
Separate vented Mixer tap kit	✗	✓	✗
Separate Mains mixer Tap	Optional		Optional
Separate Mains mixer Tap fittings	Optional		Optional
Separate Mains mixer Tap instructions	Optional		Optional
Command Centre			
Command Centre	✓		✓
Mains electrical supply cable	✓		✓
Water supply inlet hose	✓		✓
Water supply inlet adaptor and strainer	✓		✓
Ventilation kit (inc. vent tray 100 -40 models)	✓		✓
Water block kit	(UK only)		(UK only)
Booster			
Booster & hoses	Optional		✗
Filters			
Water filter & instructions	✓		✓
Limescale filter kit	Optional		Optional
Font			
Font kit	Optional		Optional

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

SECTION 6: Set up the ventilation



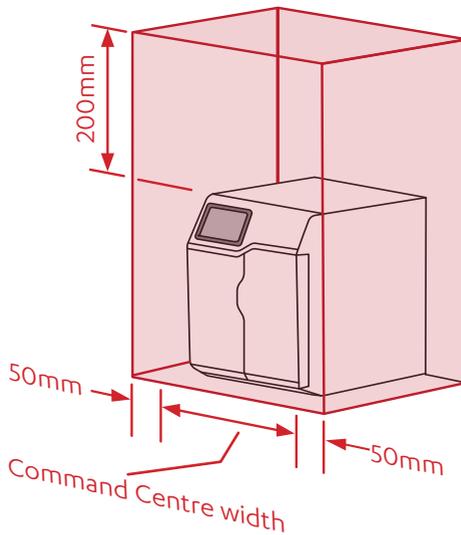
Use of tools can be hazardous. Assess the risks before you start.



Use instructions supplied with individual kit parts.



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



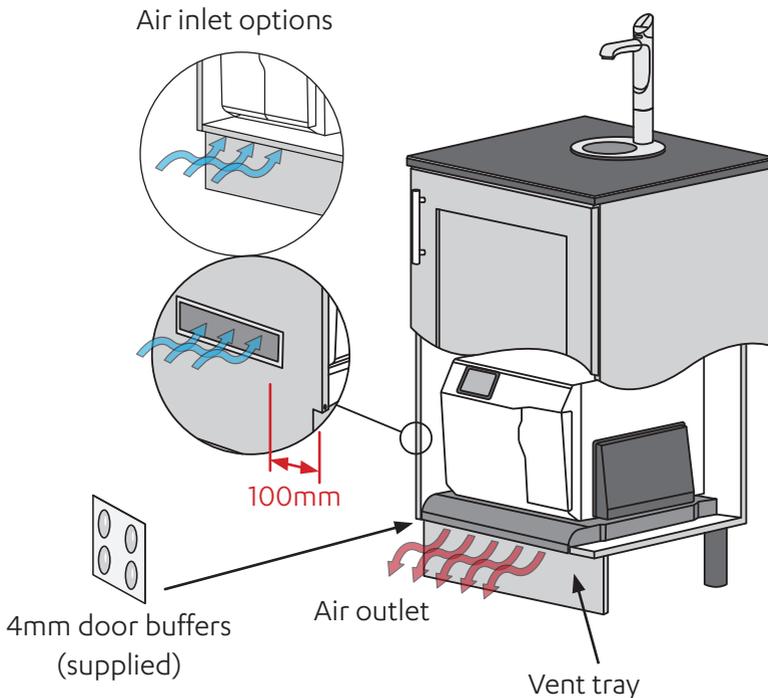
SECTION 6: Set up the ventilation

BC100 - BC40 models

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



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

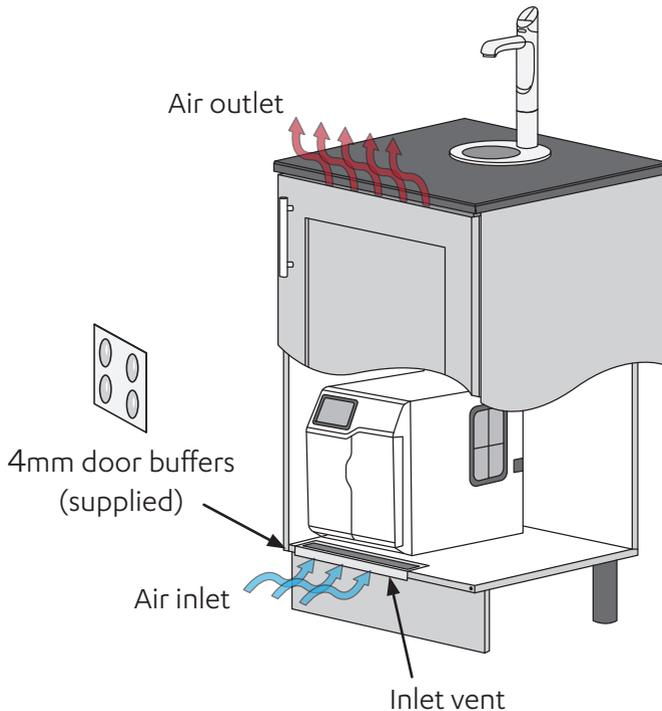


Vent tray dimensions WxDxH (mm): 500 x (515-555) x 40

SECTION 6: Set up the ventilation

BC30, BC20 & Home models

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



All models

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

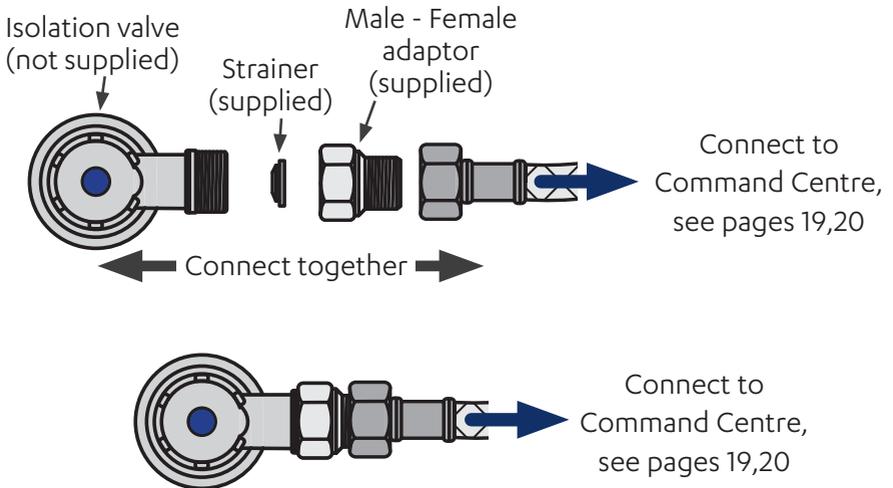
SECTION 7: Connect the water supply



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

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

Note: correct strainer orientation.

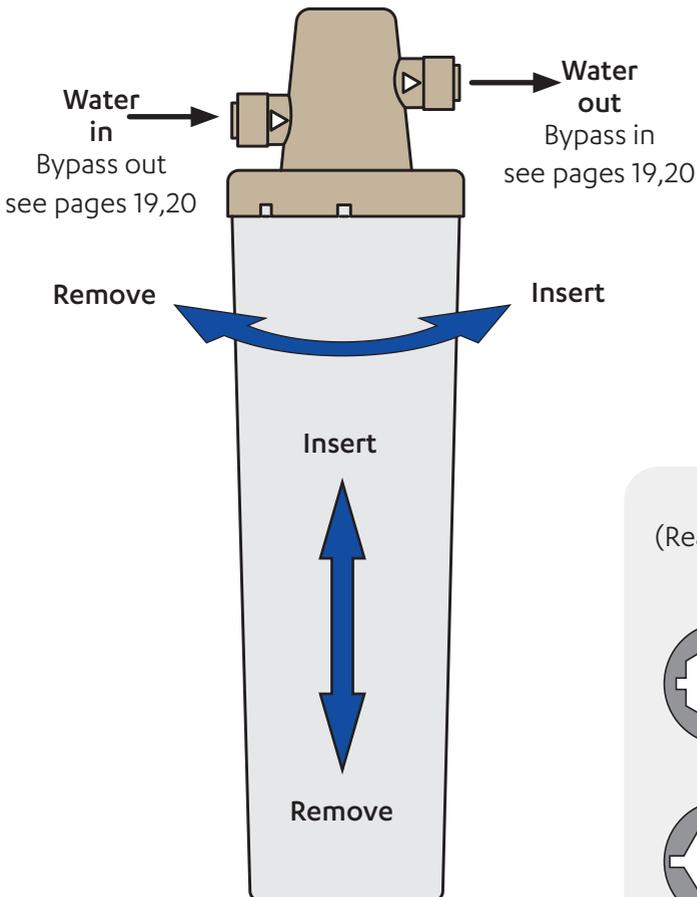


SECTION 8: Set the bypass & install the limescale filter

Available as optional accessory - UK only.

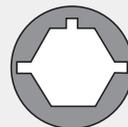
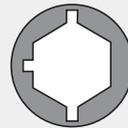


For filter head and scale filter installation use the guide supplied with the filter head and filter respectively.

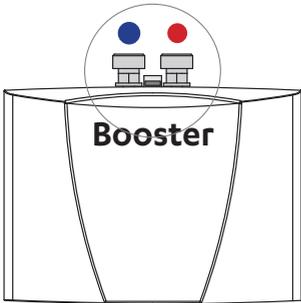


Bypass valve

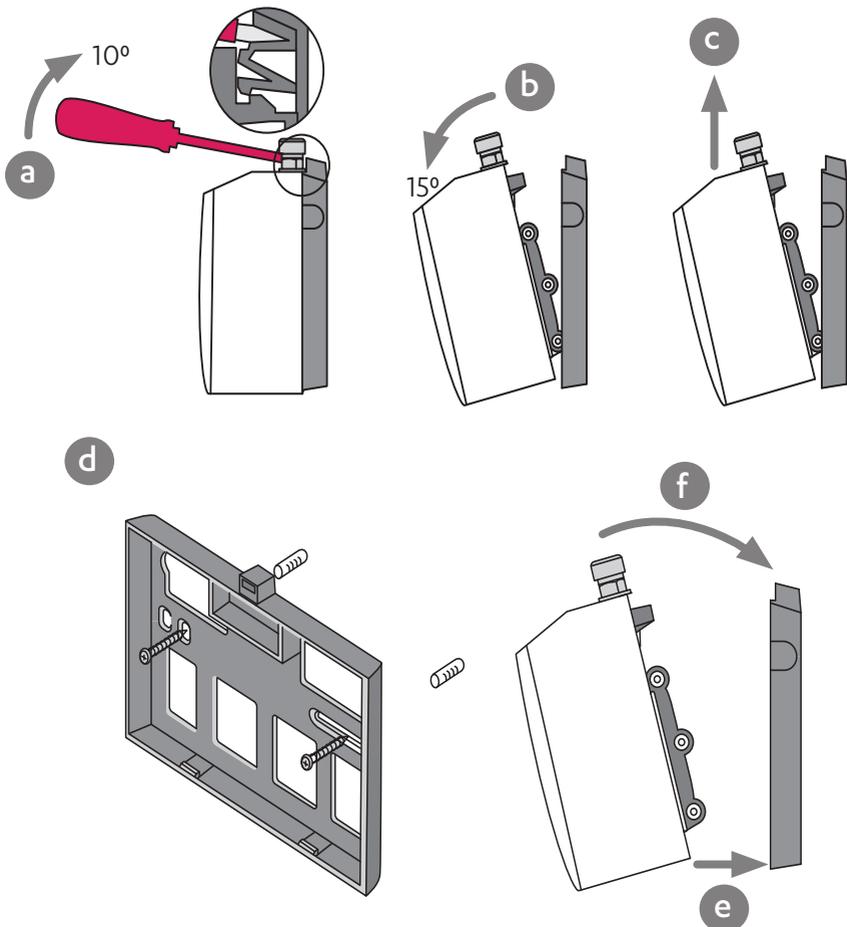
(Rear of the Command Centre)



SECTION 9: Fit the Booster

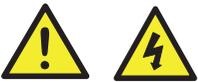
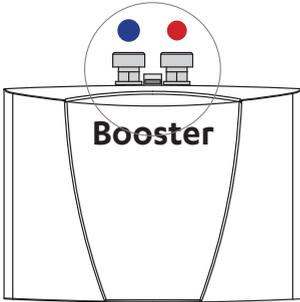


Supplied with selected models, or available as an optional accessory with selected models.



Note Take care not to break the clips when removing or installing the Booster.

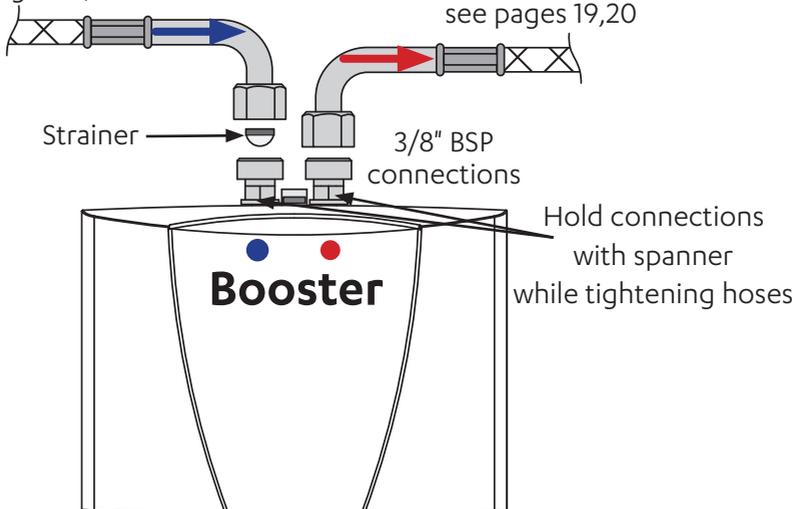
SECTION 10: Connect the Booster



Do not connect to electrical power until commissioning.
Do not over tighten hose connections.
Braided hoses supplied cannot be lengthened.

Cold water into Booster,
connect to Command Centre
BYPASS OUT
see pages 19,20

Hot water out of Booster,
connect to Command Centre
BYPASS IN
see pages 19,20

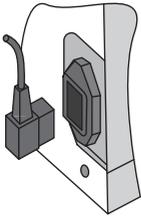


Generic installation instructions



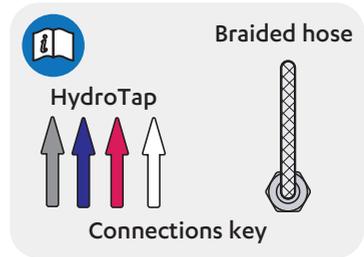
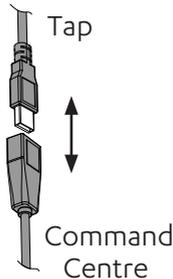
For HydroTap, mixer tap and any optional accessories, use instructions supplied with individual kit components.

Mains power cable



Do not connect to the mains socket until commissioning

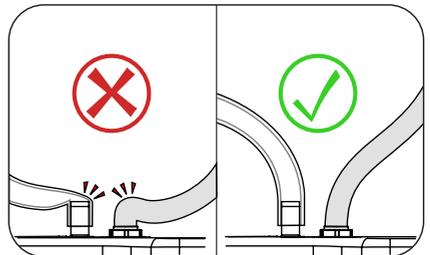
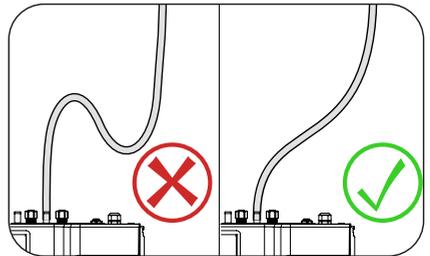
USB



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

Tips for hose connection

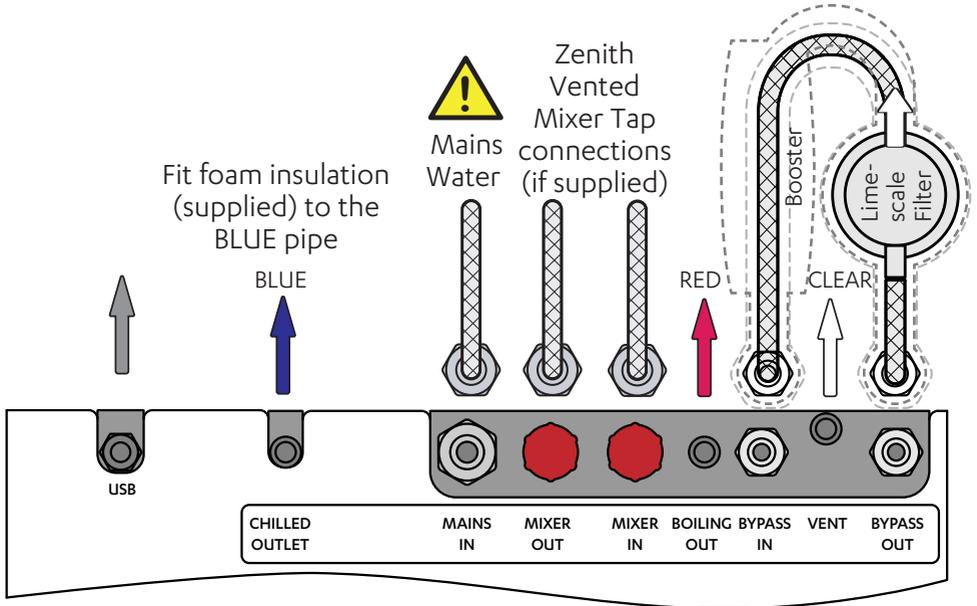
- Push the silicone hose over the connector for a minimum of 15mm.
- Ensure there is a constant fall from the tap down to the command centre.
- Hoses must be trimmed to avoid loops and kinks. Take care when positioning before cutting and make a clean cut straight across the hose, using a sharp blade.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



SECTION 11: Connect the Command Centre

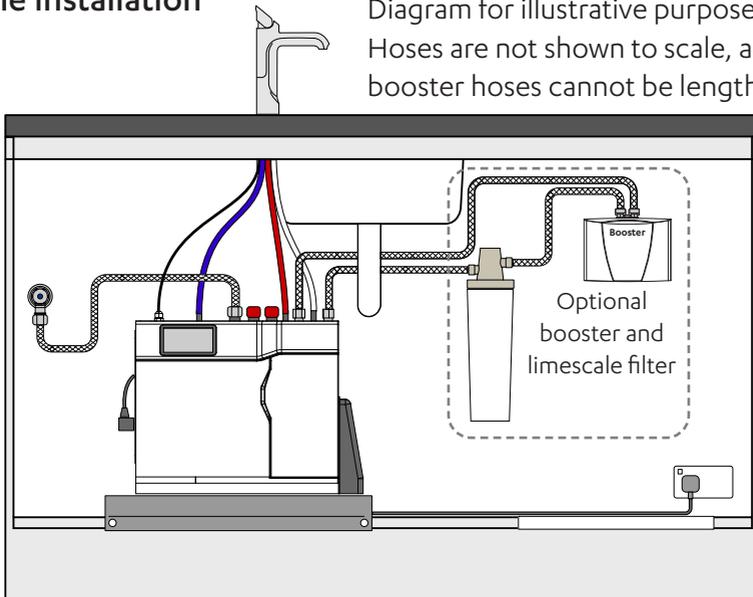
BC40, BC60, BC100 models

Booster (selected models) and
limescale filter (optional)



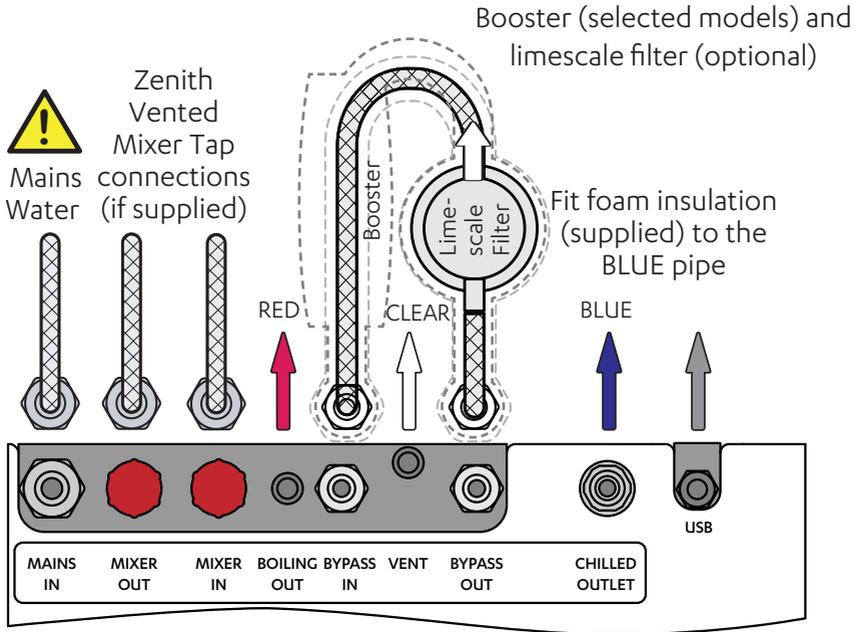
Example installation

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

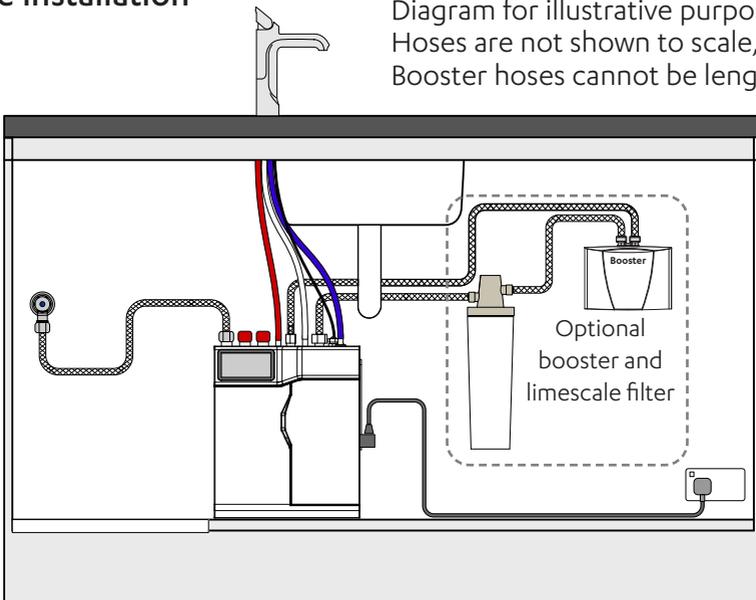


SECTION 11: Connect the Command Centre

BC20, BC30, BC Home models



Example installation



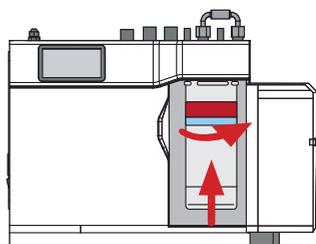
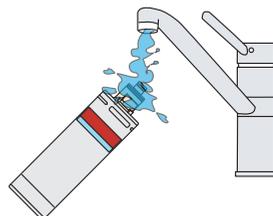
SECTION 12: Commissioning



For a more detailed description of the commissioning process, refer to the Command Centre installation and user instructions

Install the filter cartridge

- Unpack filter cartridge, remove sanitary cap.
- 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.
- Align the front cartridge label to the left, and push the new cartridge up into the filter head.
- Turn the cartridge a quarter turn anticlockwise until it comes to a complete stop and locks, with the front label facing forward.

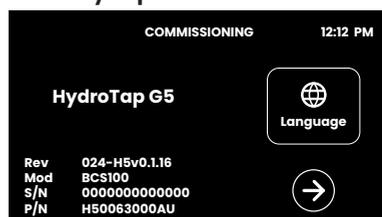


Turn on the supplies & familiarise yourself with the system

- 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.

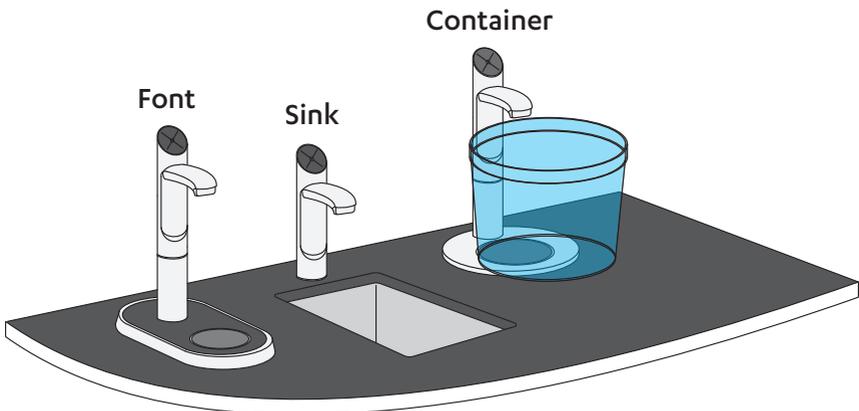
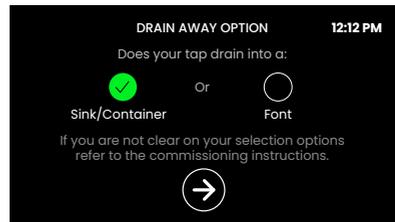
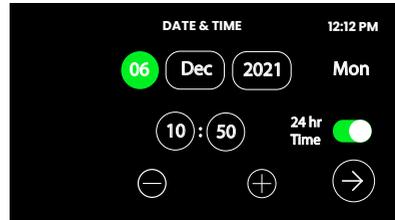
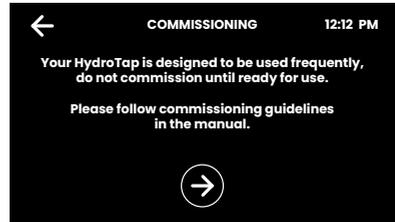
Select the language, date / time & drain away options

- Initial commissioning screen touch Language option.
- 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.



SECTION 12: Commissioning

- Touch the arrow to continue when ready to start using the HydroTap.
- 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 on a font.
- Select 'Sink / Container' if the HydroTap is mounted such that the waste water dispenses into a sink, or container.

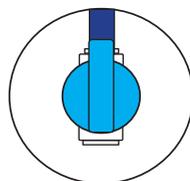
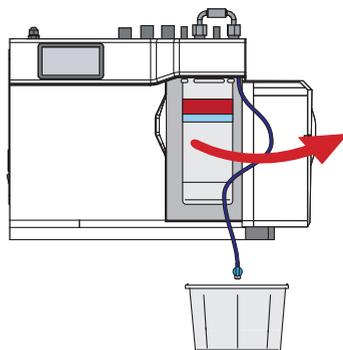


- **Note** This selection will determine if water is dispensed automatically or requires operation of the tap during the tank flush process.
- Touch the arrow to continue.

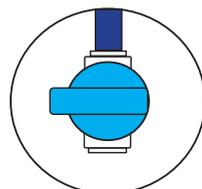
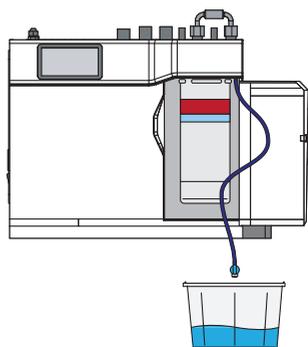
SECTION 12: Commissioning

Filter flush

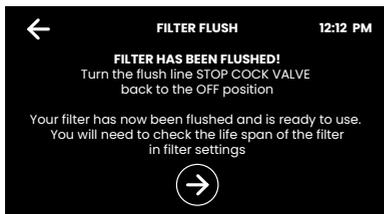
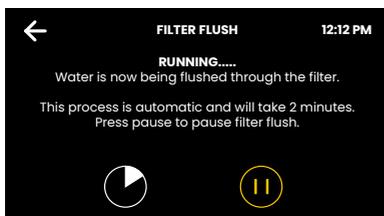
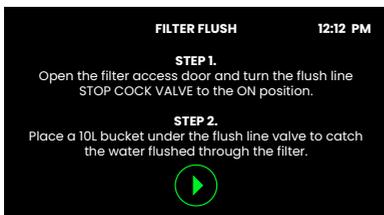
- Follow the steps on-screen to flush the filter.
- Open filter door & uncoil flush line.
- Direct flush line into bucket.
- Place a cloth or towel under the filter cartridge to catch any water that may spill.
- Open the flush line tap.
- Start filter flush.



Flush line tap open



Flush line tap closed

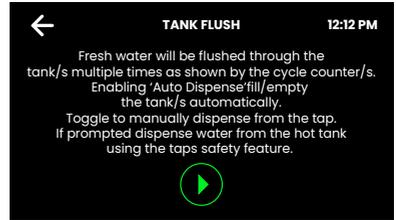


- Once the filter flush is finished, close the flush line tap.
- Wipe up any spills.
- Close the door to secure the appliance.

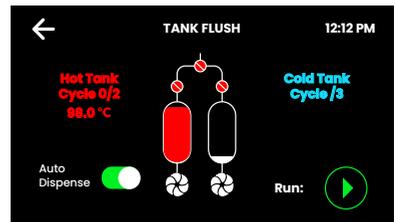
SECTION 12: Commissioning

Tank flush (does not apply to chilled sparkling models)

- Follow the instructions to flush the tanks. Dispense water from the tap if instructed.
- Note** The 'Auto Dispense' option will be enabled/disabled based on the selection made in the drain away option screen. It can be altered by touching the toggle button.
- Note** Care should be taken if enabling 'Auto Dispense' if the tap drains over a font as it may overflow during the tank flush.
- Make a selection and press Run to start the tank flush.
- If 'Auto Dispense' is enabled the tanks will fill and empty automatically except if the water in the hot tank is above 50°C. In this case follow the prompts on the screen to utilise the tap and its safety feature to empty the hot tank.
- If 'Auto Dispense' is disabled the tanks will fill automatically. When prompted use the tap to dispense water and empty the tanks. If the hot tank has water above 50°C then use the taps safety feature to dispense.

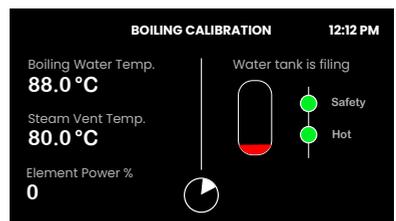
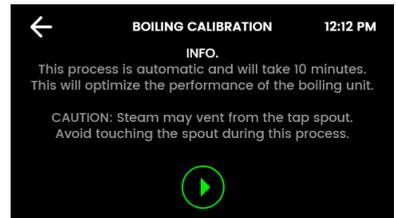


BC Models



Boiling calibration

- Press the green button and the system will start the boiling calibration procedure. This can take up to 10 minutes.

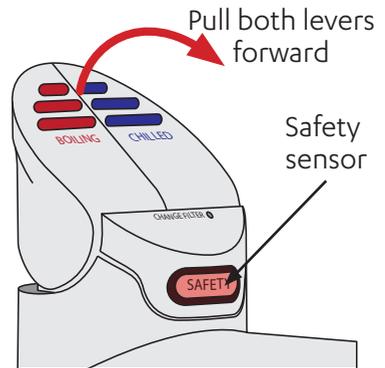


SECTION 12: Commissioning

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, during the calibration. This can be achieved by closing any nearby curtains, blinds, etc.

- Shield the HydroTap 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.



Notes

Notes

Refer to User Guide for operation and maintenance.



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