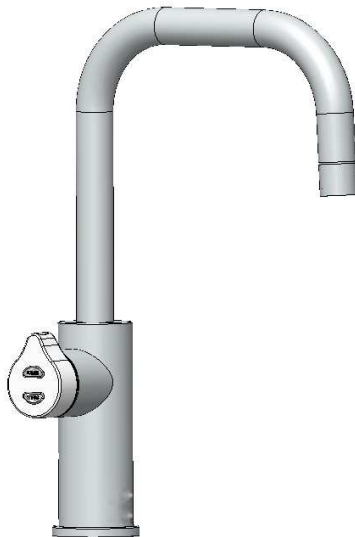


Zip HydroTap® G4

Filtered Boiling, Chilled and Sparkling drinking water for commercial kitchens and tea rooms.



BCS & CS Commercial



**Affix Model Number Label
Here
801910**

Tap options

The G4 appliance series offers a range of interchangeable taps to suit the customer's needs



These three taps are directly compatible with the G4 under bench unit.



The Mixer tap range is an additional series of taps that may be used in conjunction with any one of the three taps shown above, to create 4-IN-1 models



The All-In-One Tap is a stand alone tap that may be used as an alternative to any of the above combinations. The A-I-O is compatible with the G4 underbench unit.

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Installation checklist

Thank you for purchasing a Zip HydroTap. Please read and follow these instructions carefully to ensure safe and trouble free service. If service is required, please call 1800 638 633

Before Installation:

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

Before Commissioning:

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

Commission: (See section 7)

- 7. Flush the supply line before connecting.
- 8. Turn on the gas and water and check for leaks.
- 9. Flush the filters (This commences auto calibration for Boiling models)
- 10. Activate / enable the Booster (If fitted)
- 11. Purge the CO₂
- 12. Calibrate the safety sensor (for Boiling models)
- 13. Where applicable, programme the unit to suit the customer's requirements.

What is the Zip HydroTap ?

The Zip HydroTaps are electronically controlled, filtered, Boiling, Chilled and Sparkling water, drinking systems for kitchens and tea rooms. The HydroTap units are under bench drinking water appliances with a dispensing tap mounted on a sink or bench, which may be used for residential or commercial applications. These units utilise a conventional refrigerant compressor to chill the water and (for BCS) an immersion heating element to boil the water and all utilise a CO₂ gas cylinder to carbonate the chilled water. Depending on the model, these units will dispense boiling water (factory set to 98°C) chilled water (factory set to 3-5°C) These units are NOT designed to be used for sanitary fixtures.

The boiling water units are fitted with a tap mounted, child safety lock. In addition, there are various energy saving options accessible via the main menu. Each boiling unit is equipped with a self-calibrating program which caters for altitude adjustment. The 2.64kg CO₂ bottle is refillable and should be returned to your nearest HydroTap agency for exchange, whereas the water filter is a disposable item. Both will require periodic replacement and are covered by a limited OEM warranty.

It is important that the Installation be done safely, correctly and completely, in order to utilise all the benefits the HydroTap can provide. The Classic and All-In-One taps may be ordered with the Tap Head Assembly for Disabled use. The disabled levers are supplied with Braille caps for the visually impaired.

This manual contains important safety, Installation instructions for the Zip HydroTap G4.

Safety

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

For products sold in Europe, this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



Refrigerant

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

Qualifications

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

Venting

Sometimes steam and / or condensed droplets may discharge through a vent outlet at the tap. If the tap is not installed using the Font pedestal, ensure the tap body is located so the tap outlet safely dispenses into the sink bowl area.

Lifting

Take care when lifting the Zip HydroTap unit. Some units may exceed safe lifting limits. If you feel this is beyond your personal capabilities, please seek assistance with the lift. The weights of the units are marked on the packaging. Do not lift the unit by the front cover or any connections at the top rear of the unit. Refer to section 1 technical specification for the weight of your product.

Airflow

The ambient operating temperatures, when installed in a cupboard, must be between 5°C - 35°C. The system will operate satisfactorily only if proper air ventilation is provided and only if the recommended air gaps of 50mm on each side are provided. See section 2 for correct Installation details.

Important Safety Instructions

Altitude

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

Frost Protection

If this appliance is located where the ambient air temperature could fall below 5°C when the heater is not in use, do not turn off the appliance electrically. This safeguard does not offer the same protection to the connecting pipework and fittings.

Positioning

It is important to ensure the underbench unit is positioned in an accessible area close to the floor level. The unit must have its base mounted in a horizontal position with all inlets and outlets facing up. The Tap must be located above the underbench unit. See section 1 for details.

WARNINGS

1. The Zip HydroTap unit must be earthed. The resistance of the earth connection from each exposed metal part must be less than 1 ohm.
2. All Installation and service work must be completed by trained and suitably qualified Tradespeople. Faulty operation due to unqualified persons working on this product, or any other Zip product may void warranty coverage.
3. All Plumbing must comply with AS/NZS3500.
4. All Electrical must comply with AS/NZS3000
5. All Plumbing and Electrical connections must be made in accordance with local regulations.
6. This HydroTap product is rated for 230V 50Hz AC operation.
7. Underbench units must never be located near, or cleaned with water jets.
8. Zip HydroTaps are not to be exposed to the elements of nature
9. Due to the process of continuous improvement, Zip Heaters reserves the right to change details mentioned in this manual, without notice.


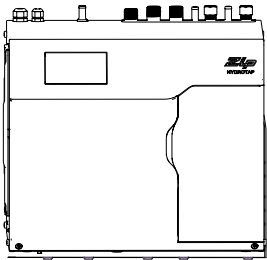
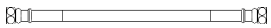
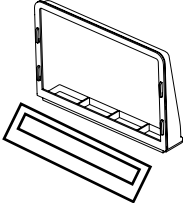
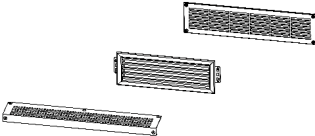
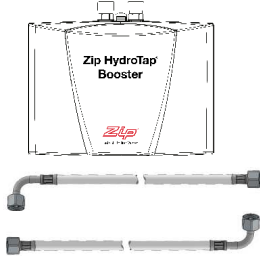







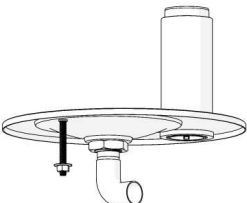

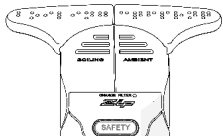

2.64 Kg CO₂ Cylinder Warnings:

- Pressurised container.
- Protect from sunlight.
- Contains gas under pressure, may explode if heated.
- Do not expose to temperatures exceeding 50°C.
- Do not pierce or burn, even after use.
- Do not expose to naked flame or any incandescent material.
- Keep out of reach of children.
- High concentration of gas may cause asphyxiation.
- Use only in ventilated areas.
- Store in a location with a volume of no less than 50 cubic meters for each 2.64 Kg bottle.
- Use only in an upright position.
- This bottle must be used with the approved pressure regulator.
- Avoid shock.
- Use according to MSDS. (Material Safety Data Sheet).



Major components and accessories

Parts supplied	Description
	1 off 4 HydroTap Taps with hoses (Classic tap shown)
	1 off HydroTap Underbench Unit with air and water filters
	1 off Mains water connection hose
	Duct kit 1 x Air Duct 1 x Mounting plate
	Vent Kit 1 x Kickboard louvre 1 x Door vent louvre 1 x Front vent grill
	1 off HydroTap Booster Heater & hoses. (Supplied with 240 /175 models)
	1 x Restrictaflow valve and Tee piece for Mixer taps & select models
	1 x User guide and 1 x Quick start guide
	1 off CO ₂ gas cylinder & regulator assy

Accessories	Description
	Softener and head assembly
	Font Kit for Arc & Cube Models
	Font Kit for Classic & Elite Models
	Replacement Filter
	Disabled lever Kit
	4-in-1 and 5-in-1 upgrade Kits

Technical Specifications

Model	Cups of Boiling Water per Hour	Glasses of Chilled Water per Hour
BCS	160	175

Note: the Cup measurement = 167ml
the Glass measurement = 200ml

Commercial Models:

BCS = Boiling, Chilled and Sparkling, Filtered,

CS = Chilled Sparkling, Filtered

BCSHA = 5 in 1

A = All in One - Mains

AV = All in One - Vented

D = Disabled lever controls, (Order as an option)

NOTE: chilled water will continue to be dispensed after the rated capacity has been used, although this may be at slightly higher temperature.

Product covered by these instructions:

	Capacity Boiling (cups)	Capacity Chilled (glasses)	Boost (10A)	GPO's Required	Power Rating (kW)	Boost Rating (kW)	Unit Dimensions W x D x H (mm) with air duct	**Dry Weight (Kg)
Boiling Chilled Sparkling								
BCS160/175	160	175	no	1x10A	2.30	NA	450 x 470 x 335	29
BCS240/175	240	175	yes	2 x 10A	2.30	2.20	450 x 470 x 335	29
Chilled Sparkling								
CS175	NA	175	no	1x10A	0.450	NA	336 x 476 x 335	26
All-In-One								
BCSHA-AV 160/175	160	175	no	1x10A	2.30	NA	450 x 470 x 335	29
BCSHA-AV 240/175	240	175	yes	2 x 10A	2.30	2.20	450 x 470 x 335	29
5-In-One								
BCSHA 160/175	160	175	no	1x10A	2.30	NA	450 x 470 x 335	29
BCSHA 240/175	240	175	yes	2 x 10A	2.30	2.20	450 x 470 x 335	29

** Add an extra 4-5 kg when full of water

Before Installation



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

- Review all the technical specifications.
- Ensure the underbench can support the product weight when full of water, (allow an extra 4-5kg when full.)
- Sufficient space in the cupboard to install all of the undersink units in accordance with these Installation Instructions. Refer to technical specification for dimensions. Make allowance for a booster heater and / or water softener if required. Refer to section 3 & 4, for Installation instructions.
- For Zip HydroTap 160/125 & 160/175 models, a 220-240Vac, 10A GPO will be required. For Zip HydroTap 240/175 models, two 220-240Vac, 10A GPOs will be required. (One GPO is for the Zip HydroTap and the other for the Booster heater).



Note: Check all cable and hose lengths against inlet /outlet positions before proceeding (See section 6 for general layout).

- A potable water supply connection 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 undersink units are installed.
- For the mains pressure All-IN-ONE, an external hot and cold water supply will be required.
- If an external filtration or water softening device is required, then it is important to allow extra space for these items.
- A cold water supply with a minimum working pressure of 250kPa and a maximum working pressure of 700kPa connected via an isolation valve.
- The fitting of an air flow duct, attached to the side of the unit, requires a rectangular cut size of 284mm x 45mm, to provide adequate warm air displacement. See section 2.
- The appliance must be placed with it's base in a horizontal position.

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

Special Tools Required:

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

For the standard and Mixer taps:

- 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.

For the All-In-One tap:

- 50mm diameter sheet metal hole punch for sink tops. (Not supplied)
- 50mm diameter hole saw for timber bench tops. (Not supplied)
- Nut runner tube spanner (supplied) for fixing tap assembly.

Section 1

Tap Installation

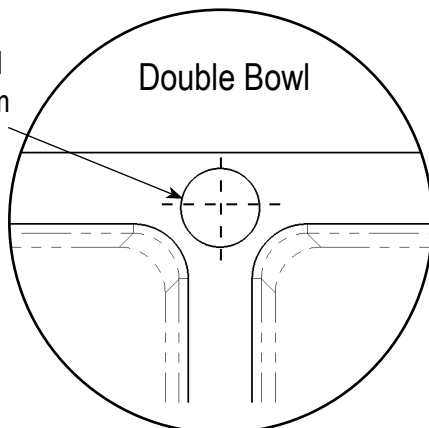
Hole positioning:

Position the tap such that it dispenses into the sink bowl with ample clearance for a cup or tea pot. Alternatively, the tap could be mounted away from the sink using a Zip Font, available as an accessory.

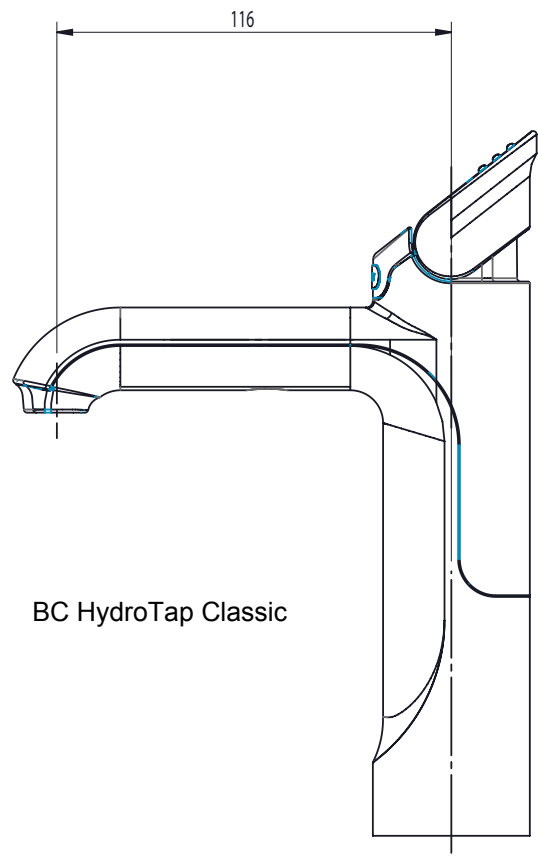
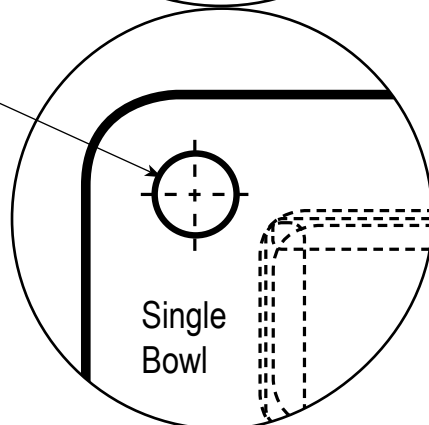
TAP	Recommended dispensing distance **
Elite	116 mm
HydroTap Classic	116 mm
HydroTap Arc/Cube	171 - 174 mm (Extended)
All-In-One	211 mm
Mixer - Arc neck	231 mm
Mixer - Classic	270 mm
Mixer - Cube neck	310 mm

** Check bowl depth and adjust accordingly

For
A-I-O 50mm and
Mixer taps 35mm
hole



For
Elite, Classic
and Arc/Cube
35mm hole

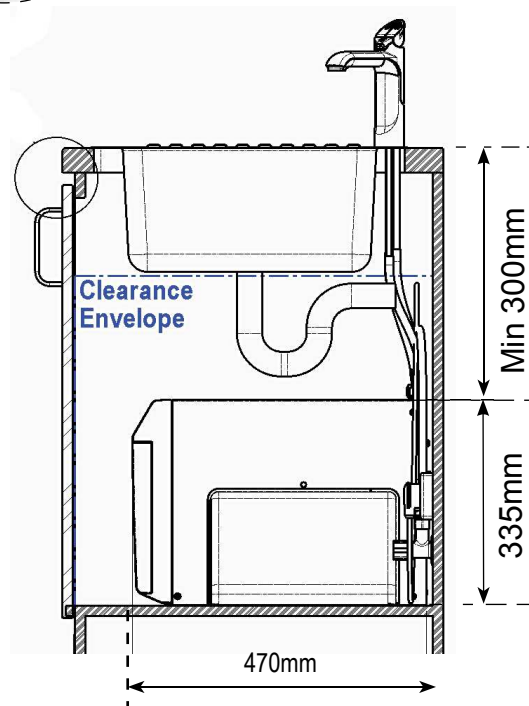
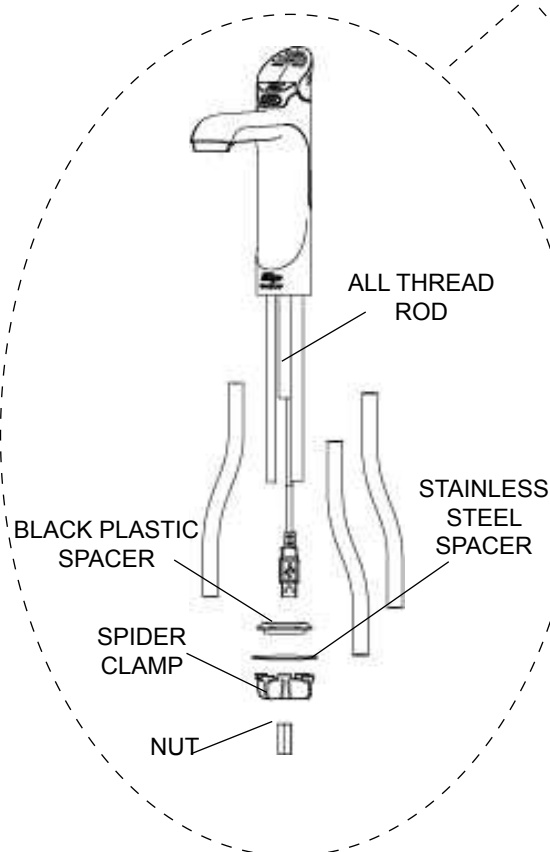


BC HydroTap Classic

HydroTap Classic & Elite

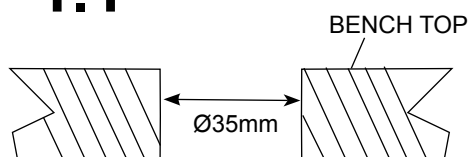
HydroTap Classic

EliteTap



Tap assembly exploded view and kitchen layout side view.

1.1



Cut a 35mm hole in the bench / sink top.

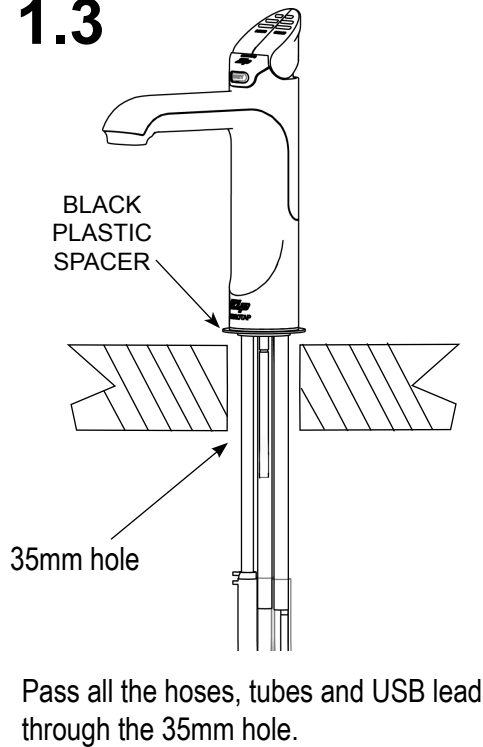
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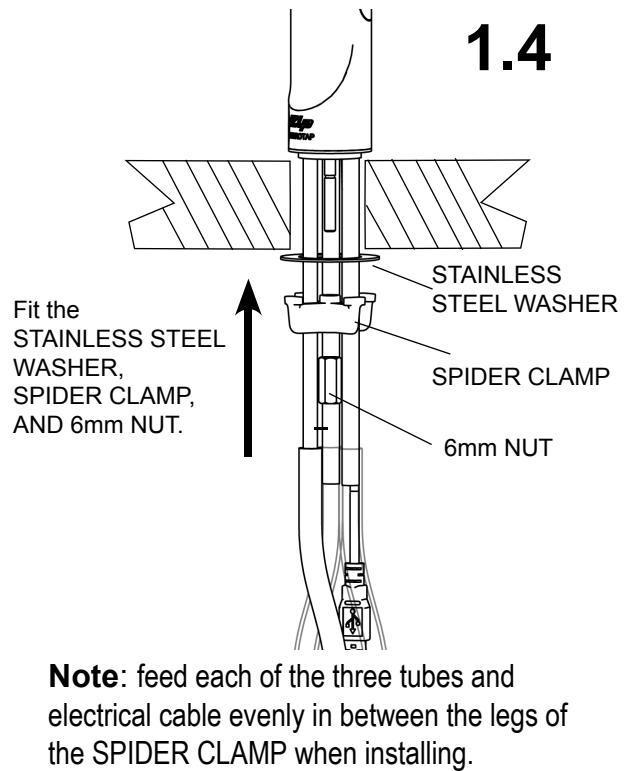
Apply a light smearing of silicon sealant on the underside of the spacer to ensure a watertight fit.

Installation Instructions

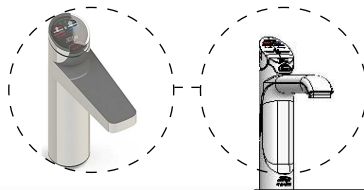
1.3



1.4



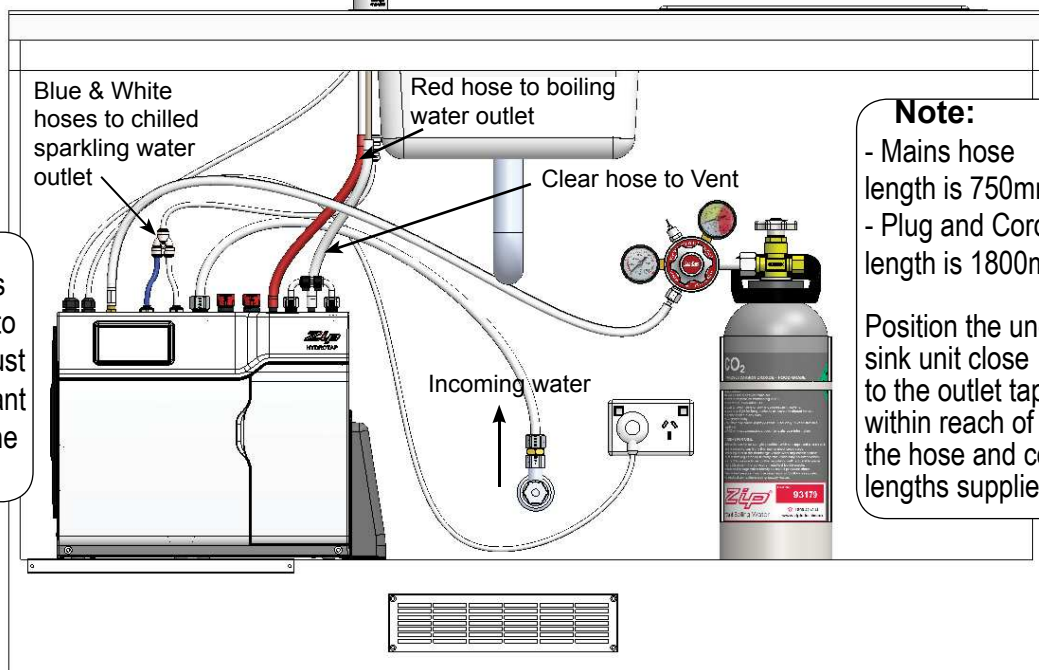
1.5



Typical HydroTap Installation
(see section 5)



Note: All silicon tubes must be cut to size. They must have a constant fall back to the unit.



Note:

- Mains hose length is 750mm
- Plug and Cord length is 1800mm

Position the under sink unit close to the outlet tap, within reach of the hose and cord lengths supplied



HydroTap Arc/Cube

The HydroTap Arc/Cube has a spout that may be fixed in one of 6 angular positions (depending on the position of the rotary control) and fixed in one of two height positions. The spout is fixed and does not swivel.

NOTE: The tube kit must be fitted after the HydroTap has been mounted on the benchtop or sink. Refer to the tube kit assembly instructions, supplied with the tap kit.

To reduce the risk of scalding, Position A should not be selected with any of the Boiling water units. (See fig. 1.8)

1.6 To change the spout position

1. Remove the 2 x spout locating screws and lower the spout to expose the plastic spring clip

NOTE: The plastic spring clip has two internal dimples that may be positioned in the 6 upper or 6 lower, pre drilled holes in the spout (see diags. below & Figs. 1.7 & 1.8)

2. To reposition the spout, gently spread the plastic spring clip to release the dimples from the spout holes. When released, slide the clip on the spout so that it ends up between the two rows of holes.
3. Rotate the plastic clip on the spout to orient the dimples, so they are in line with the newly selected holes.

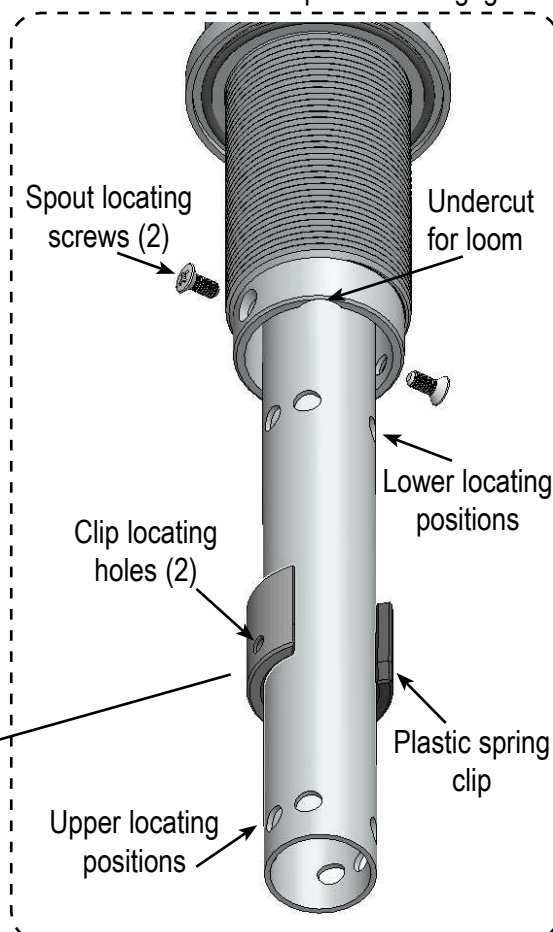
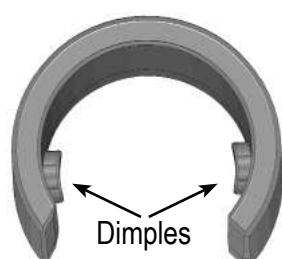
NOTE: When determining which of the 6 holes are required for the new spout height and orientation, check the new plastic clip position will clear the undercut and that the wiring loom will not be pinched, when assembled.

4. Slide the plastic clip up/down to engage with the selected holes, making sure the two dimples engage simultaneously with the two selected holes.

NOTE: The clip will not fit correctly if one dimple engages before the other. Both dimples must engage at the same time.

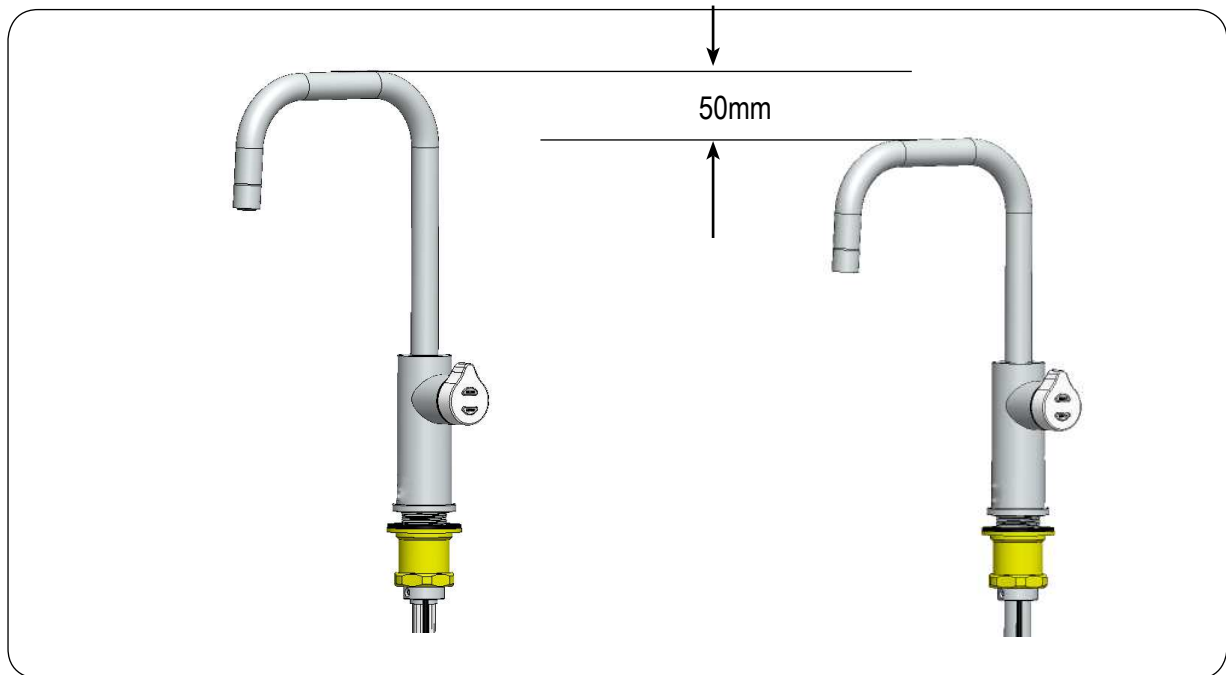
5. With the clip fitted to the newly selected holes, carefully raise the spout (ensure the wiring loom is a neat fit in the undercut and is located between the open ends of the clip) until the clip locating holes are in line with the spout locating screws.
6. Replace the 2 x locating screws.
7. If mounting on an uneven surface, apply a light smearing of silicon sealant on the O ring to ensure a watertight fit. (See fig. 1.9)
8. Pass the assembly through the 35mm hole and position the tap so it discharges into the sink.
9. Fit the lower rubber seal to the threaded extension.
10. Secure the tap in position with the metal washer and nut.
11. Fit the tube kit, as supplied.

Plastic spring clip

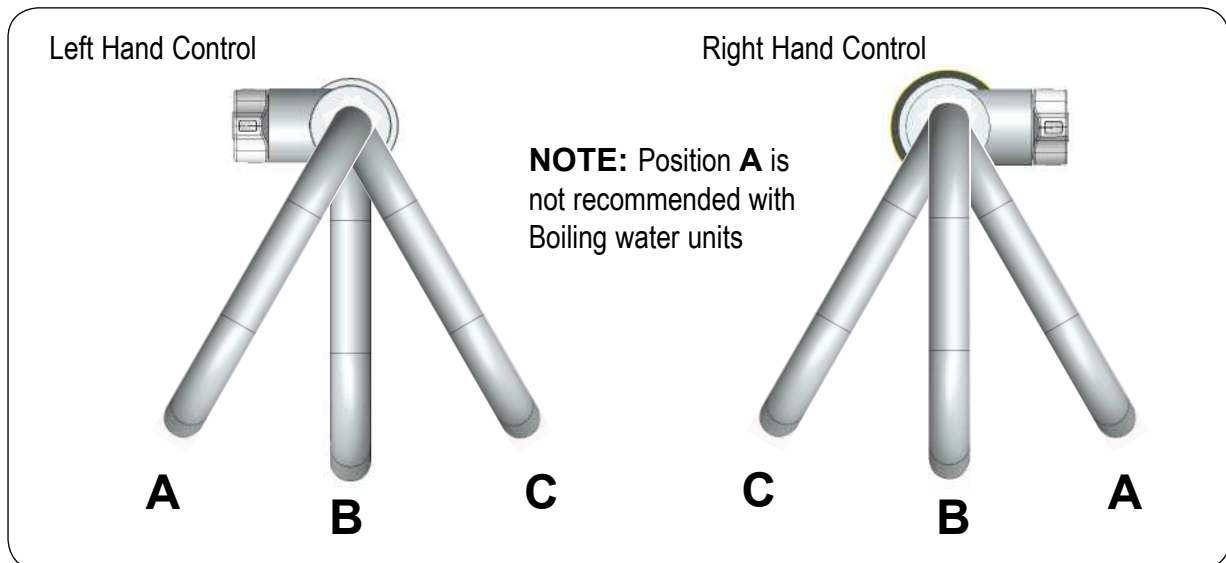


Installation Instructions

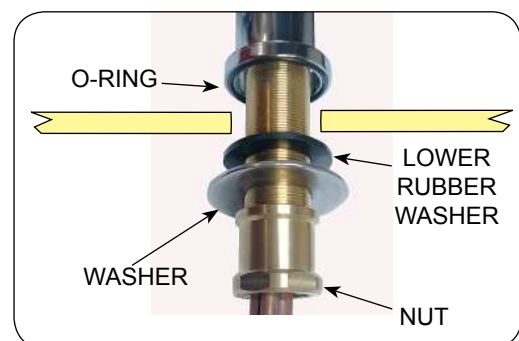
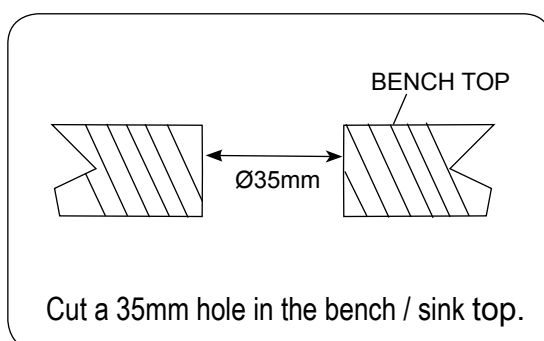
1.7 Height adjustment (Fixed position options)



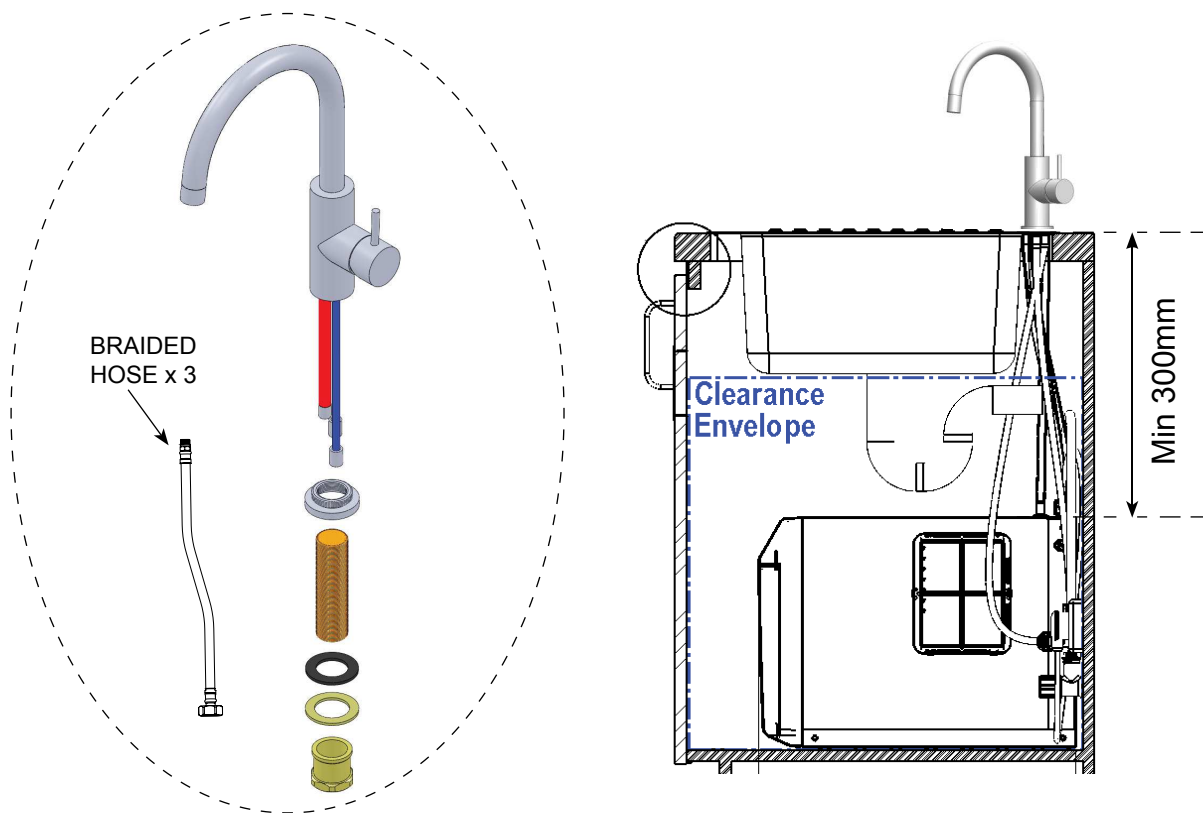
1.8 Angular adjustment (Fixed position options)



1.9 Mounting (See table on Page 11)



Mixer Tap Installation



Tap assembly exploded view and kitchen layout side view.

1.10



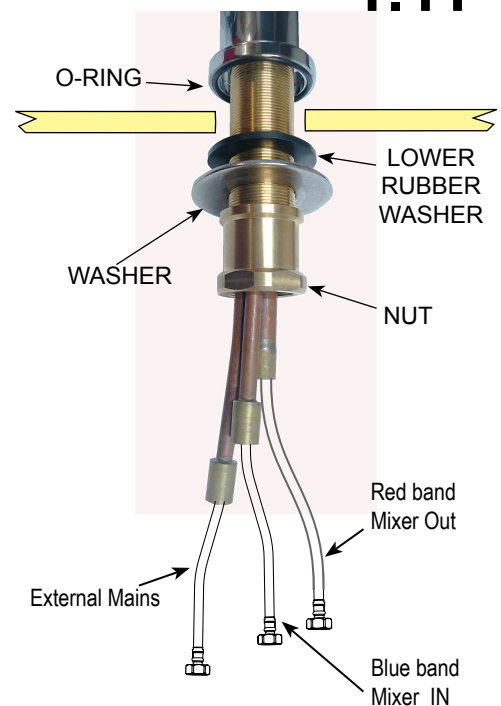
Cut a 35mm hole in the bench / sink top.

Note: make sure the tap location will allow the nozzle to drain into the sink.

Note:

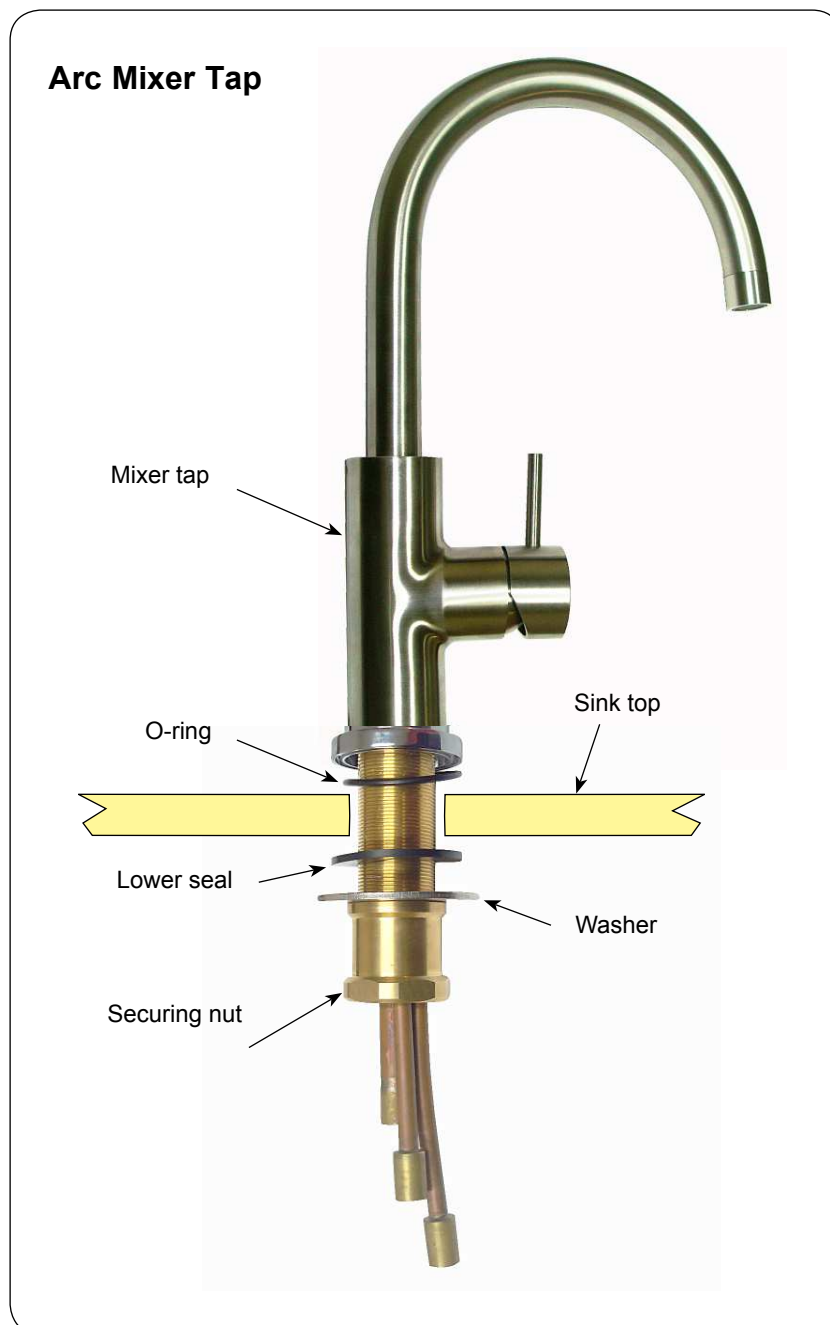
The mixer tap requires a Zip Restrictaflow valve, as supplied, to be fitted in the cold water supply line, from the isolation valve tee piece, to the mixer tap. (See Fig. 1.13)

1.11



1.12 Installing the Mixer Tap (Classic, Arc and Cube)

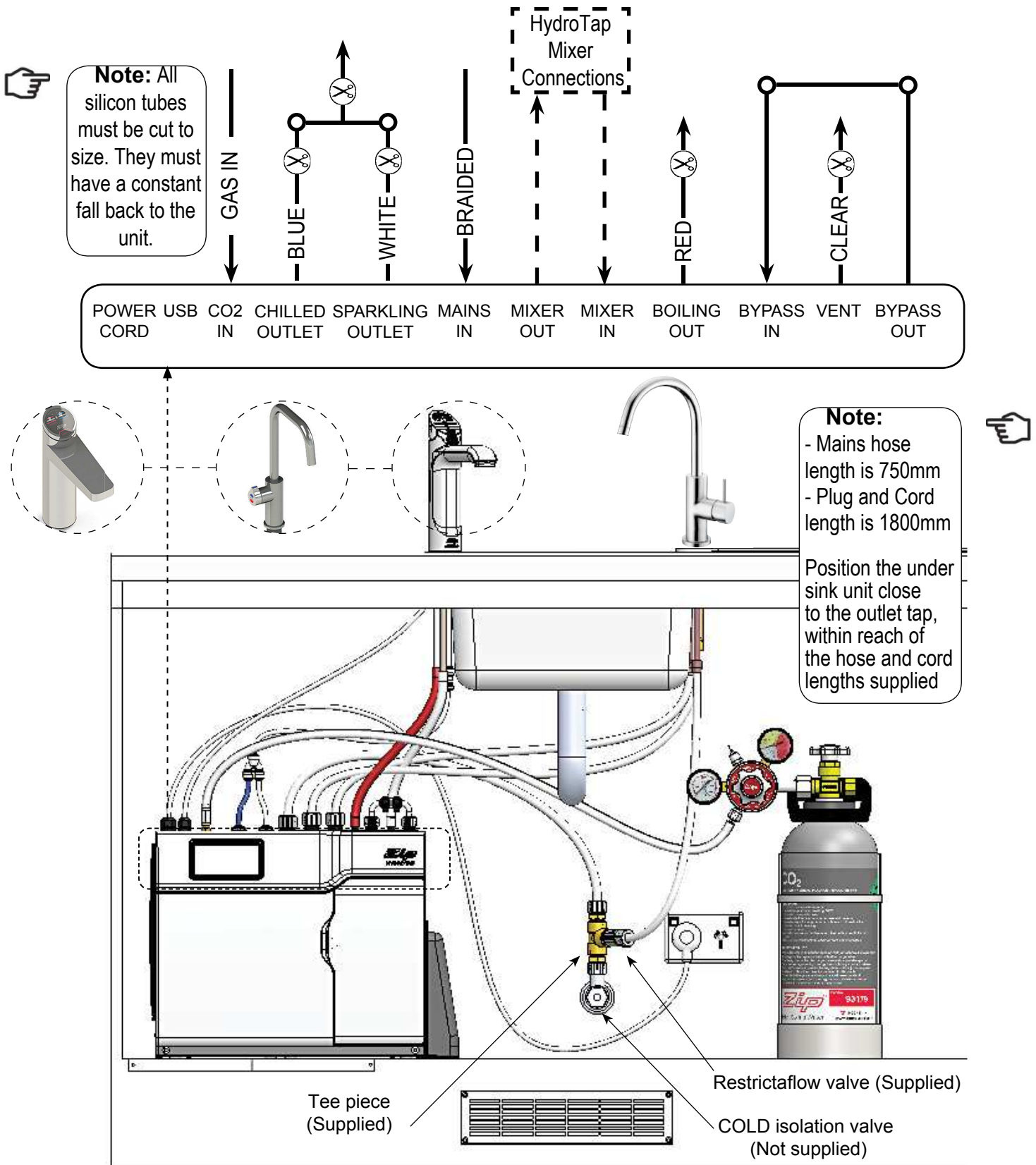
- Fit the O-ring into the recess on the underside of the Mixer tap. (Note: If mounting on an uneven surface, a light smear of silicone on the O-ring will ensure a water tight seal)
- Pass the tap tubes and threaded extension through the 35mm hole and position the tap so that it discharges into the sink.
- Fit the lower rubber seal to the threaded extension.
- Secure the tap in position with the metal washer and Nut.
- Affix the three hoses to the tap. Match the hose colours to the coloured bands on the copper extension tubes. (See diag. 1.11)



Installation Instructions

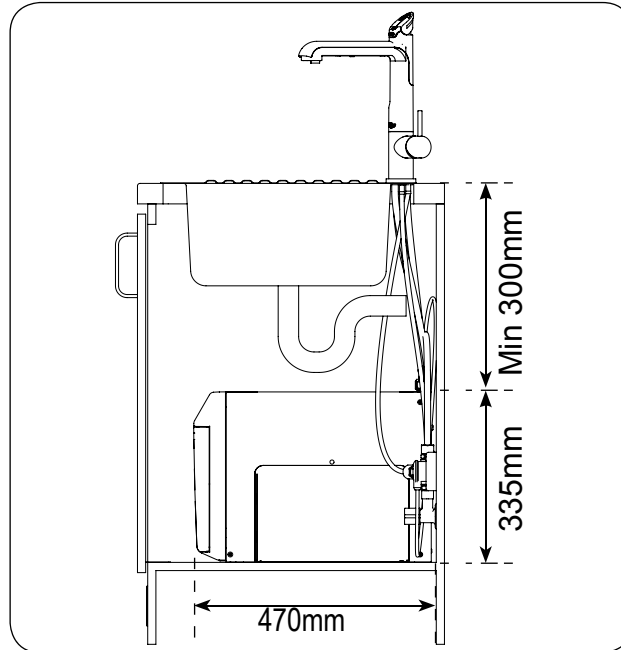
1.13

Typical HydroTap 5-in-1 Installation (see section 6)

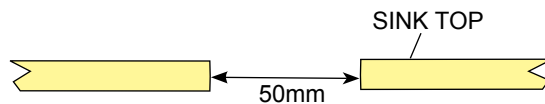


All-In-One Tap Installation

1.14



1.15



Cut a 50mm hole in the bench / sink top.

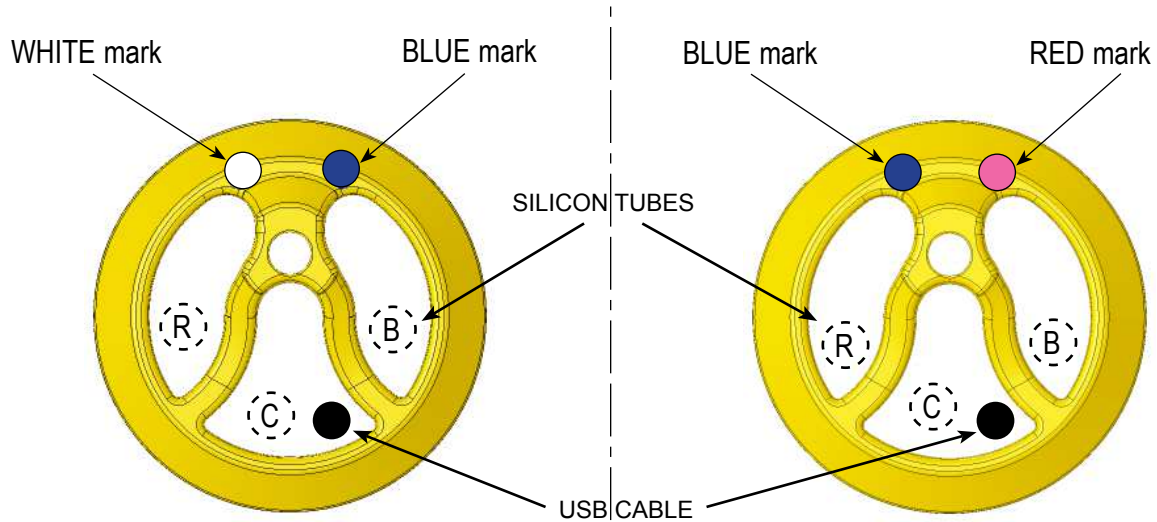
Note: make sure the tap location will allow the nozzle to drain into the sink. (See Page 11)

Installation Procedure

- Fit the seal ring to the base of the tap and If mounting on an uneven surface, apply a light smear of silicone sealant to ensure a watertight seal
- Mount the tap on top of the cut out hole after passing the usb cable and tubes through the 50mm hole
- Thread the cable and silicon tubes through the circular clamp block (Check the tube colour alignment with the coloured dots on the clamp block). (See fig 1.16)
- Clamp the assembly in position using the threaded nut and clamp block
- Working from inside the cupboard, attach the braided hoses to the tube extensions (ensure the seals on the end of the hoses are lubricated). Check the correct position for Hot and Cold connections by matching the colours on the braided hoses with the coloured markings on the copper extension tubes. (See fig. 1.18)
- Test for leaks after all the connections have been secured.

1.16

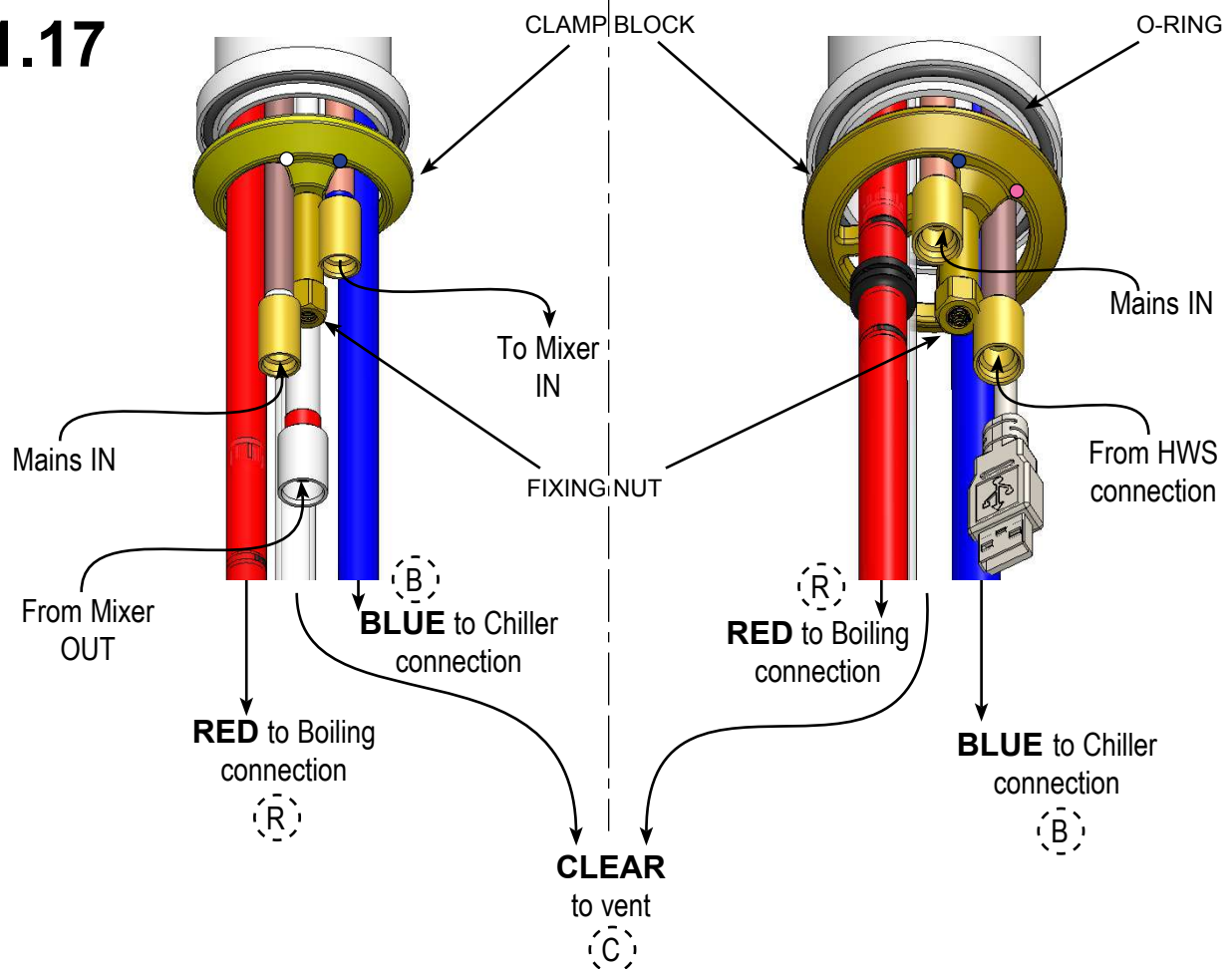
Clamp Block markings and silicon tube positions, viewed from underneath



AIO Vented assy

AIO Mains assy

1.17

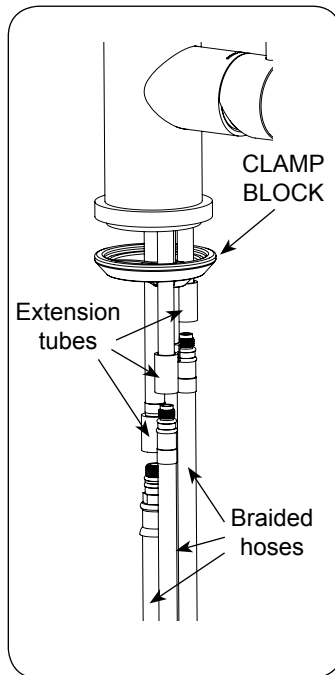


Installation Instructions

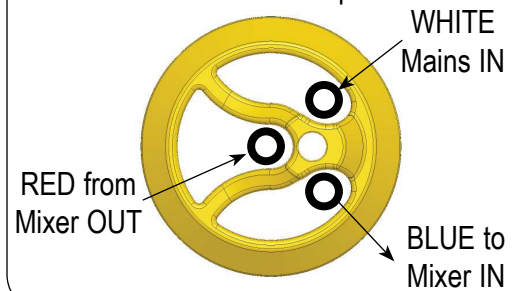
1.18

- Screw the braided hoses into the extension tubes. Ensure the o-rings are lubricated prior to assembly and that the braided hoses, with coloured markings, are correctly matched with the colours on the extension tubes and on the clamp block (as indicated).
- Make sure all tubes and hoses are firmly secured.

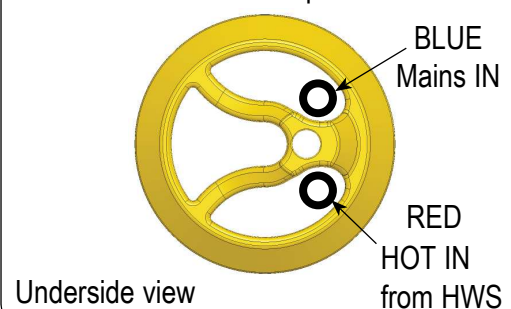
Typical Vented assembly



Vented braided hose positions



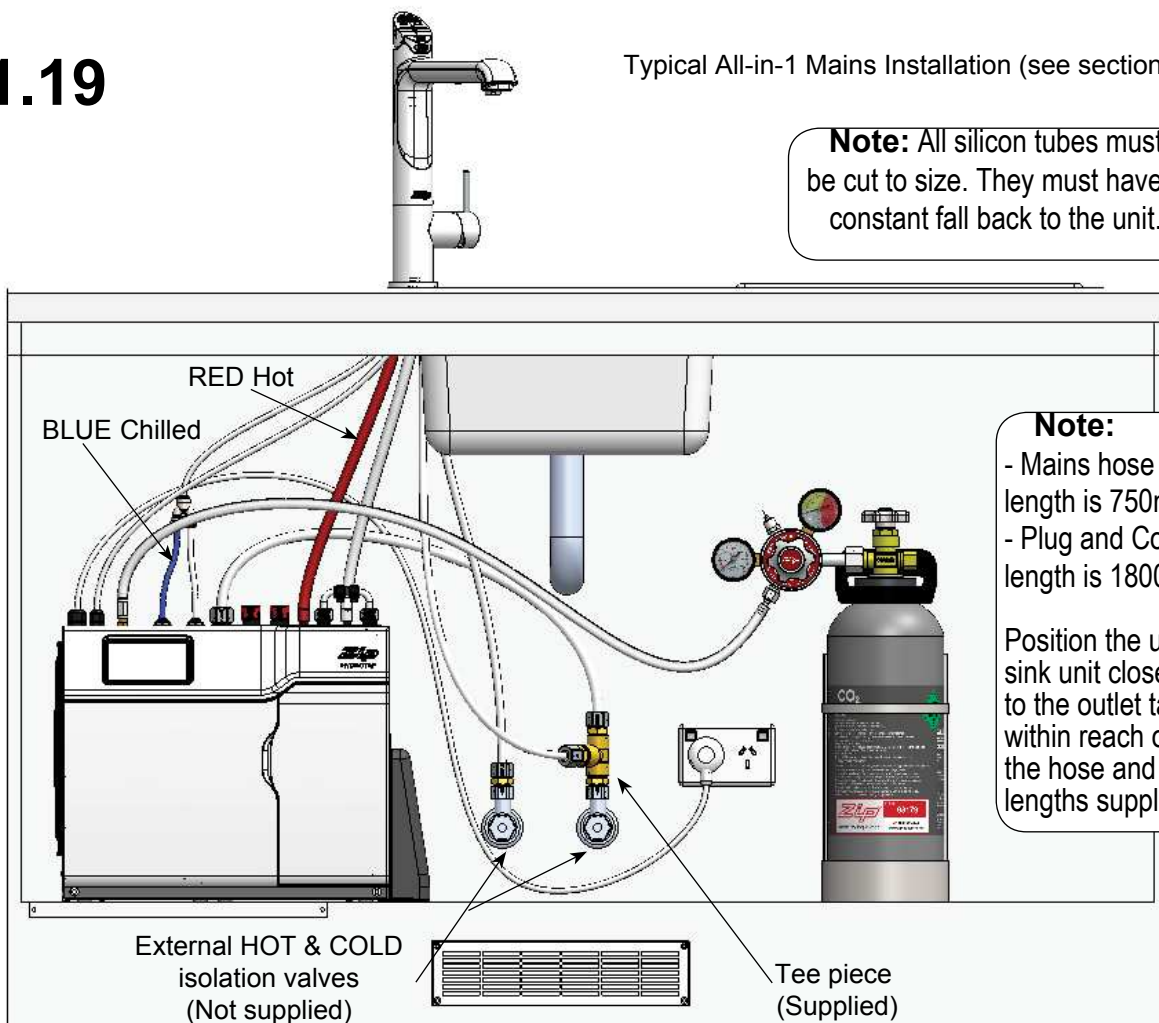
Mains braided hose positions



1.19

Typical All-in-1 Mains Installation (see section 6)

Note: All silicon tubes must be cut to size. They must have a constant fall back to the unit.



Installation Instructions

1.20 Typical All-In-One Vented assembly with Booster heater

Note: All silicon tubes must be cut to size. They must have a constant fall back to the unit.

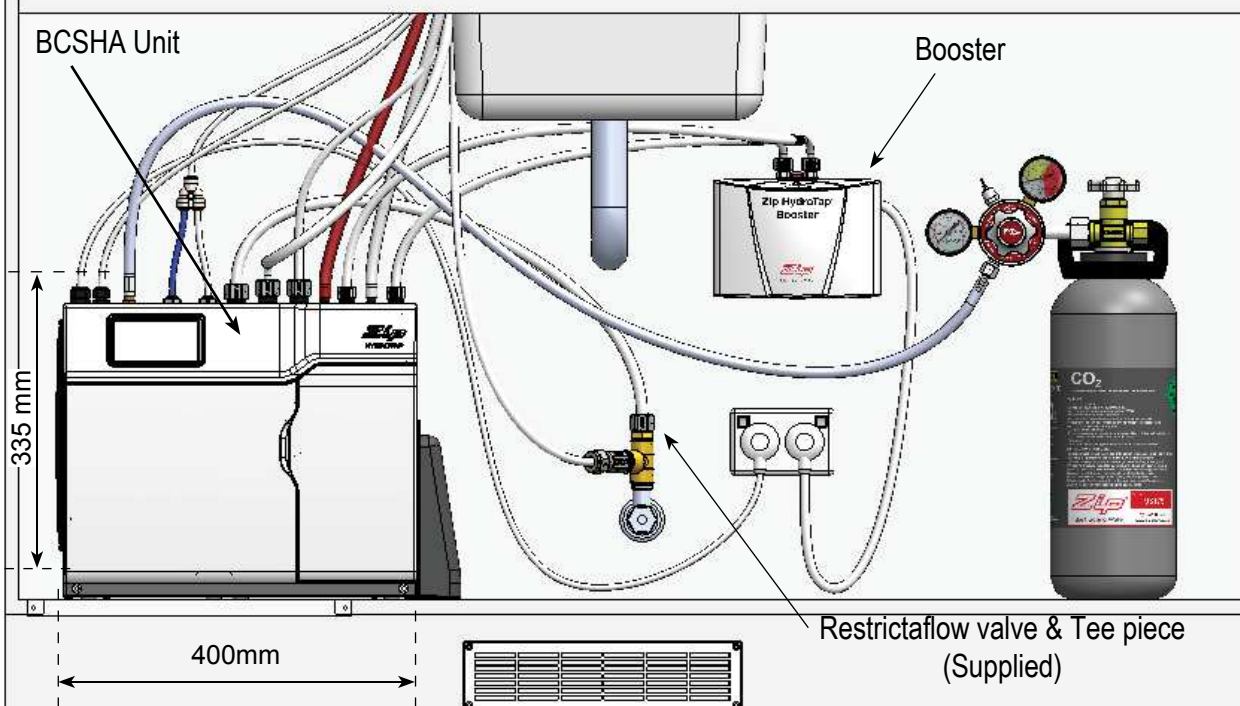
Note:
- Mains hose length is 750mm
- Plug and Cord length is 1800mm

Position the under sink unit close to the outlet tap, within reach of the hose and cord lengths supplied

A-I-O Tap

BCSHA Unit

Booster



Note: Fit the insulation (supplied) to the JG tubes used for Boiling and for Chilled water

Note: The All-In-One vented taps require a Zip Restrictaflow valve and Tee piece, as supplied, to be fitted in the cold water supply line, from the isolation valve (Not supplied), to the mixer tap. (See diagrams)

Note: All plastic tubes must be cut to size. They must have a constant fall back to the unit.

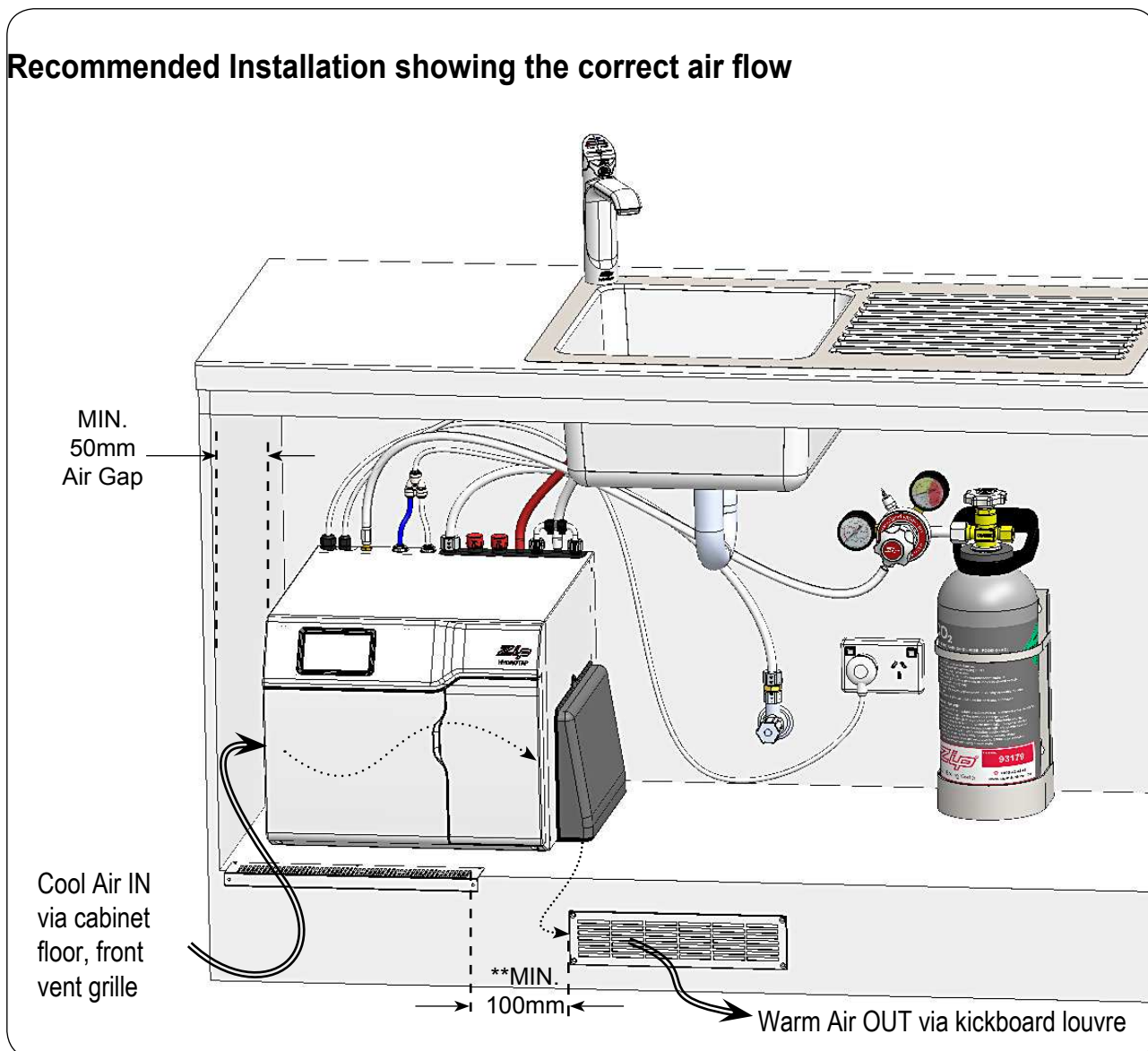
Section 2

Ventilation

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

- Jigsaw and 12mm drill
- Keyhole or Wall Board saw.

Recommended Installation showing the correct air flow



2.1 Ventilation for All Models

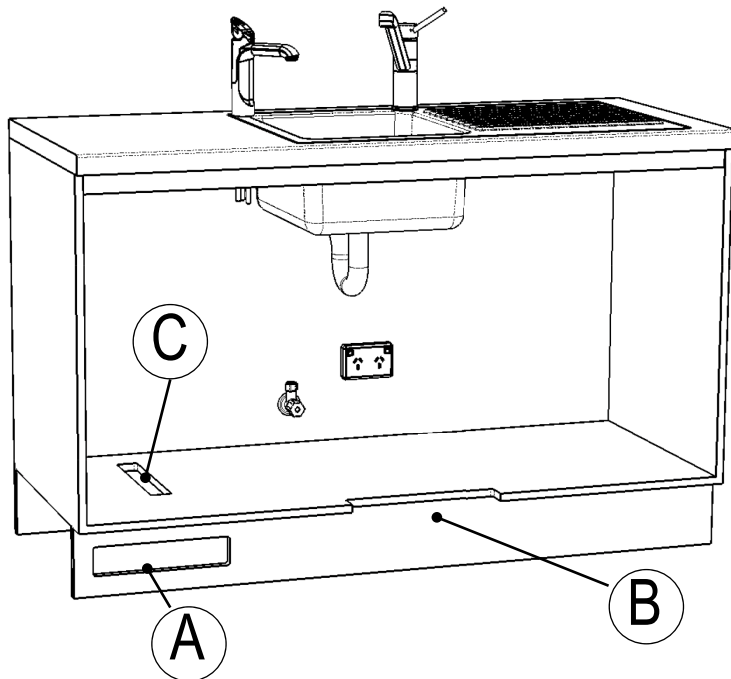
Proper air circulation must be provided for all Boiling and Boiling Chilled Sparkling models. The system will operate correctly only if the recommended air gaps are achieved during Installation. It is recommended to install vent duct and louvre panels for under floor and /or door vent systems.



****Note:** Inlet and outlet vents should be separated by a Min 100mm, to avoid hot air recirculation.

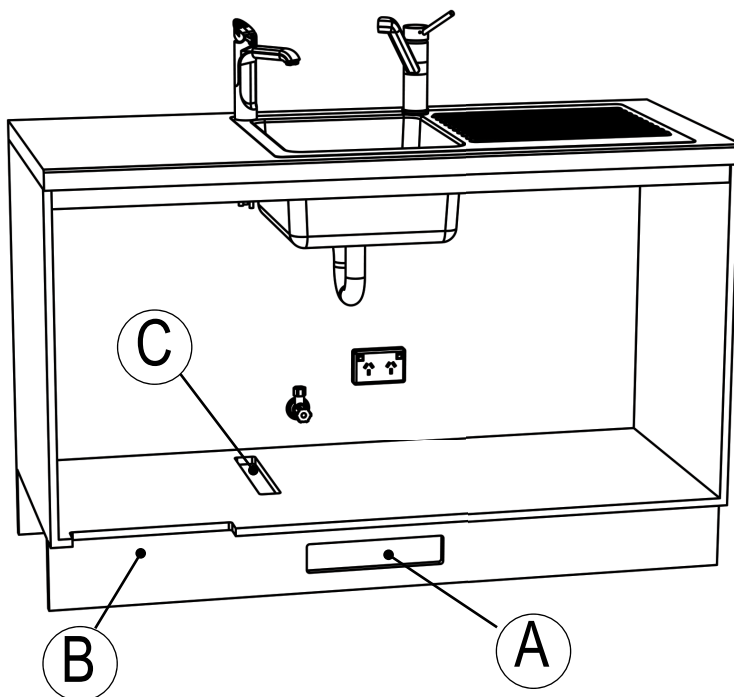
IMPORTANT: See section 6.3 for clearances.

2.2 Chilled Sparkling ventilation



Typical Cut out arrangement
for Chilled Sparkling models
with kickboard venting via a
left hand appliance duct

2.3 Boiling Chilled Sparkling ventilation



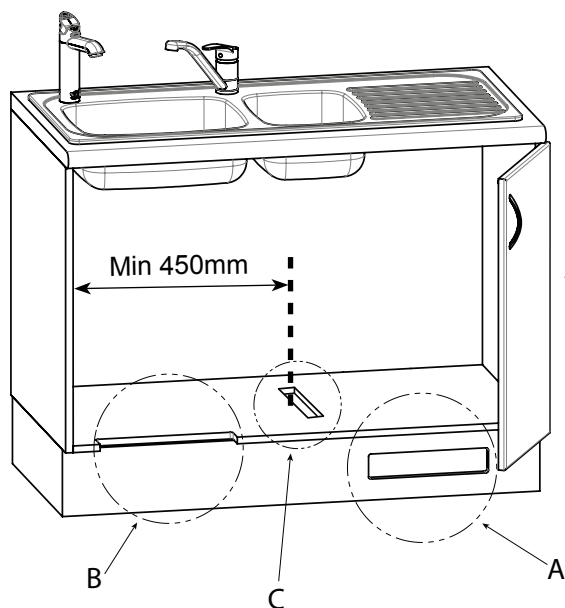
Typical Cut out arrangement
for Boiling Chilled Sparkling
models with kickboard
venting via a right hand
appliance duct

Ventilation

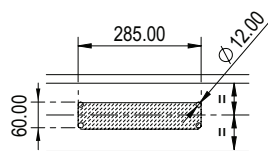
CUT OUT DETAILS

ATTENTION:

Insure that: Cut outs 'A' and 'B' are on opposite side of cabinet.
Cut out 'C' is straight behind 'A'

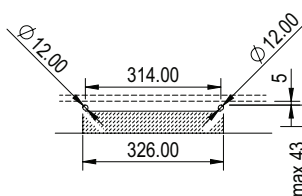


For positioning of cutout C
use the template marked on the cardboard carton



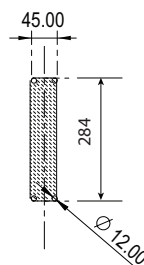
A - KICKBOARD CUT-OUT

1. Drill 4 pilot holes $\varnothing 12$ in corners
2. Finish cut-out using Jigsaw and Keyhole or Wall Board saw



B - CABINET FLOOR CUT-OUT

1. Drill two pilot holes $\varnothing 12$
2. Finish cut-out using Jigsaw



C - CABINET FLOOR CUT-OUT

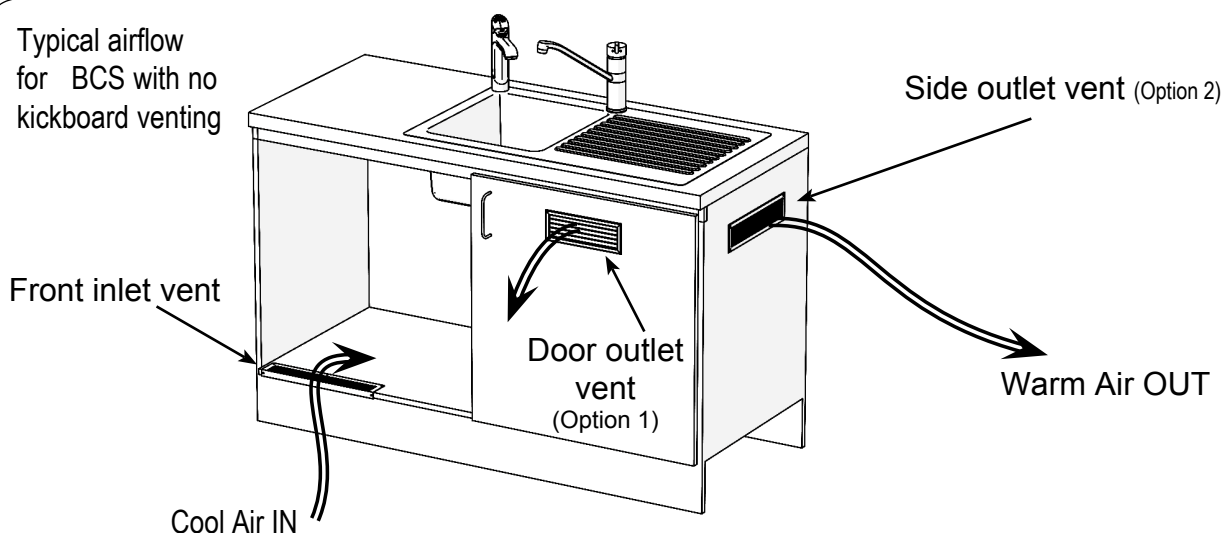
1. Drill 4 pilot holes $\varnothing 12$ in corners
2. Finish cut-out using Jigsaw and Keyhole or Wall Board saw

2.4 The following instructions are critical if the vent kit, as supplied, is not fitted:

If the kick board vent kit cannot be used then it is important to fit a standard HydroTap vent kit, which ensures heat dissipation through natural convection via installed vents. For high use applications, where the cupboard space temperature is near 35°C , or higher, an auxiliary ventilation kit must be fitted. (Contact your local service centre for availability).

Note: The vent kit has to be installed in a way that allows air to be drawn in from the bottom of the cupboard and expelled through the top of the cupboard. Therefore placement of the outlet vent should be towards the top of the door (Option 1) or on the side of the cupboard (Option 2).

Typical airflow
for BCS with no
kickboard venting

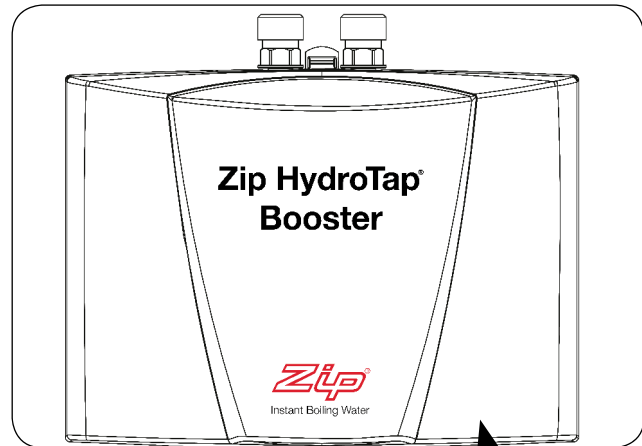


Section 3

Booster Heater

3.1 Product Description

The boost unit is a compact electronically controlled auxiliary water heater. It is intended to provide pre heating of water before it enters the Zip HydroTap G4 boiling tank. The Booster is supplied as standard equipment with all 240 cup models. However, it may be later installed, as an accessory for the 160 cup models, to increase their delivery to 240 cups.



Note 1: water connection

:Blue marking - water in

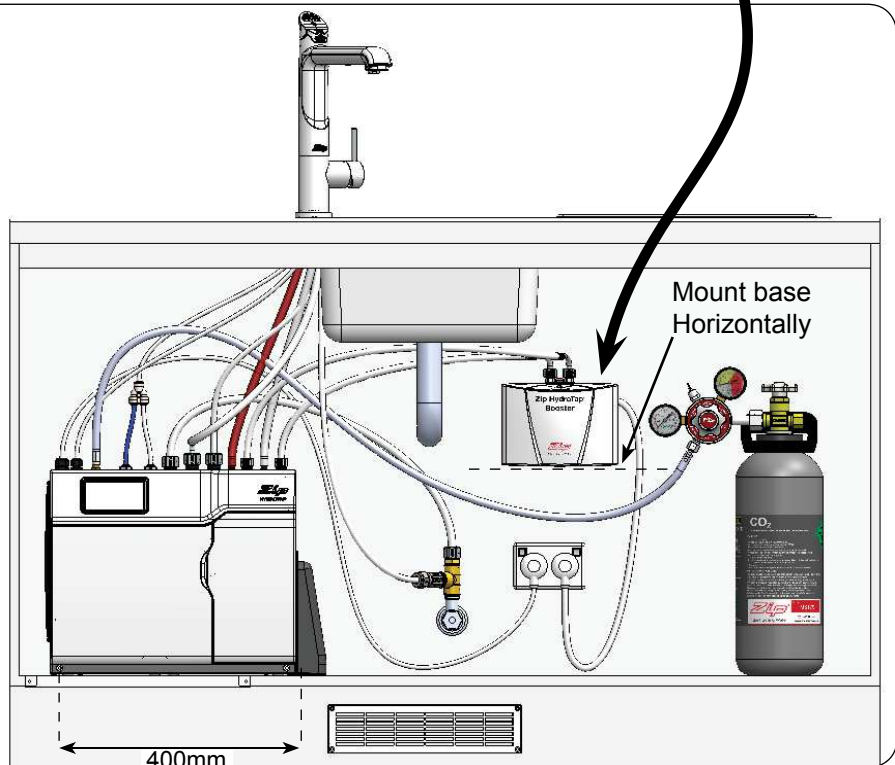
:Red marking - water out.

The braided hoses cannot be lengthened.

Note 2: The electrical cable length is 1.0 metre.

Note 3: Position the Booster within reach of the fixed hose lengths, keeping the Booster as close as possible to the undersink unit inlet/ outlet fittings.

Note 4: Ensure the Booster heater is mounted in an upright position (as shown) with a horizontal base



Booster Specifications:

	Rating	Unit
Nominal Power Rating	2.2	kW
Nominal Current	10	A
Electric Supply 50Hz AC	230	V
Elect flex and plug (black) - 1 meter length (with 90° Australian plug)	10	A
Fixed Flow Rate	1.2	L/min
Minimum water pressure	200	kPa


3.2 Installation Procedure

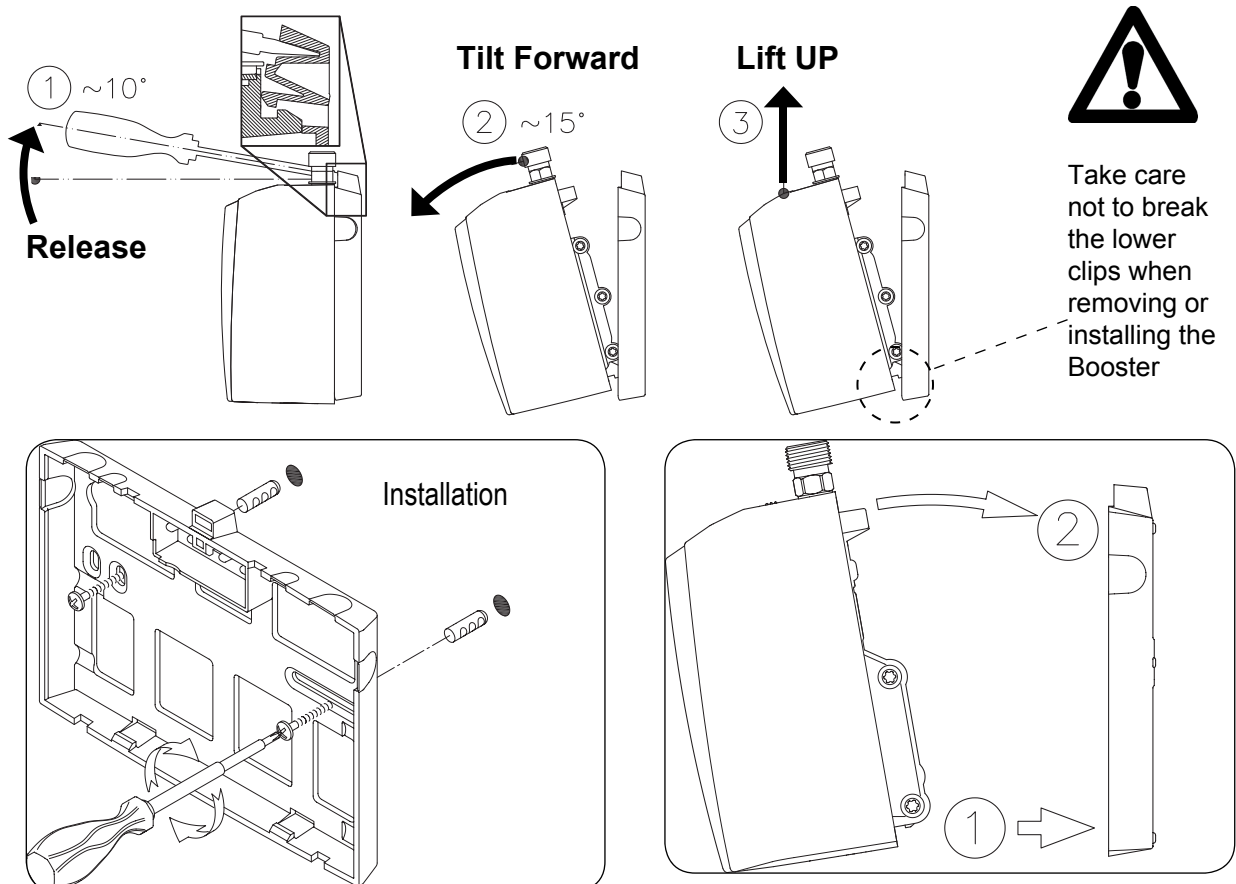
Site requirements

- Appliance must only be installed in a frost-free area. Never expose appliance to frost.
- The Appliance is designed for wall mounted Installation and must to be installed with water connectors facing upwards.
- The appliance complies with protection class IP 25.
- The 400mm braided hoses supplied with the unit 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.

3.3 To Remove / Install the appliance

1. Insert a flat head screwdriver all the way into the lock.
2. Gently angle the screwdriver upwards by approximately 10° as shown in the image below.
3. Pull the appliance forwards by approximately 15° as shown.
4. Carefully pull the appliance upwards to complete the removal process. Taking care not to break the lower clips
5. To install; Place the appliance on the wall bracket and snap into position (See installation below).

 **Note:** Remove the backing plate for wall mounting



Booster System

 **Note 1:** This appliance is intended for use with the Zip HydroTap under sink unit.

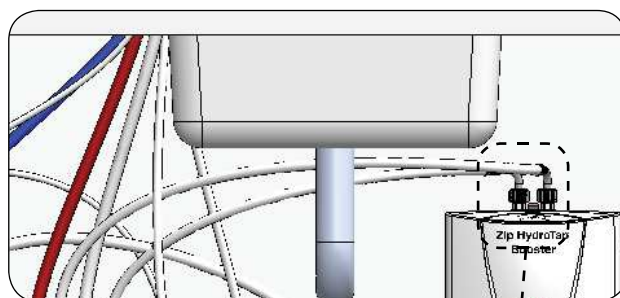
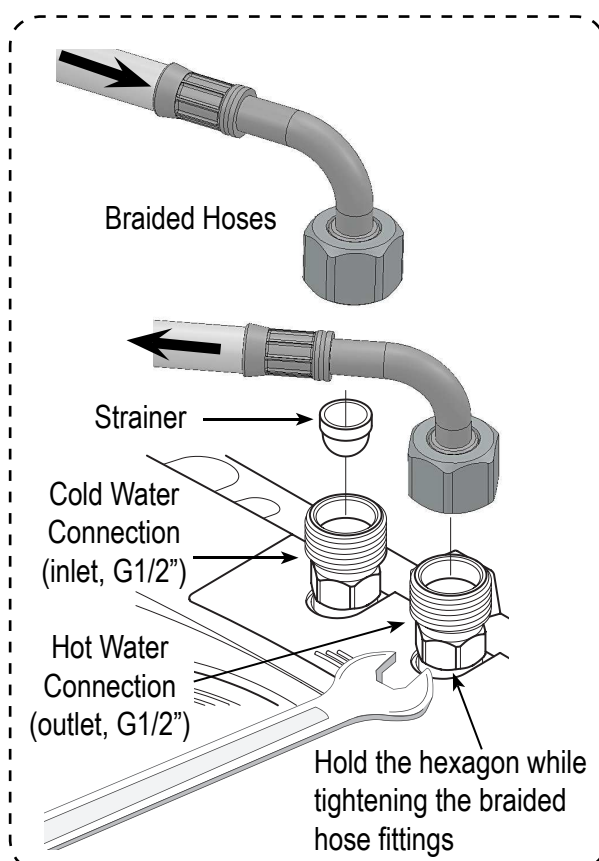
Note 2: Water connections must be pointing vertically upwards.

Note 3: The booster unit should be installed as close as possible to the Zip HydroTap Unit as the 400mm connection hoses cannot be lengthened.

3.4 Braided hose connections

1. The cold water inlet (blue) and hot water outlet (red) are marked on the rating plate. Connect the braided hoses from the 'Bypass Out' fitting on the Zip HydroTap, to the water inlet of the booster unit (Marked Blue) and from the outlet of the booster unit (Marked Red) to the 'Bypass IN' fitting on the Zip HydroTap unit. Avoid exerting any mechanical pressure on the appliance. This can be achieved by applying 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 an additional 90° - 180° with a spanner
2. Once the water connections have been made, check for any leaks and rectify as necessary.

Typical Installation

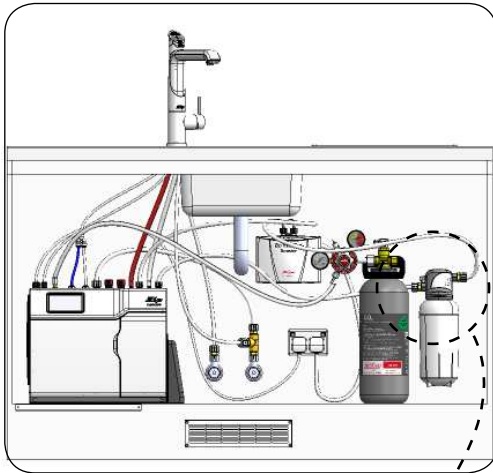


Section 4

Filter / Softener Installation

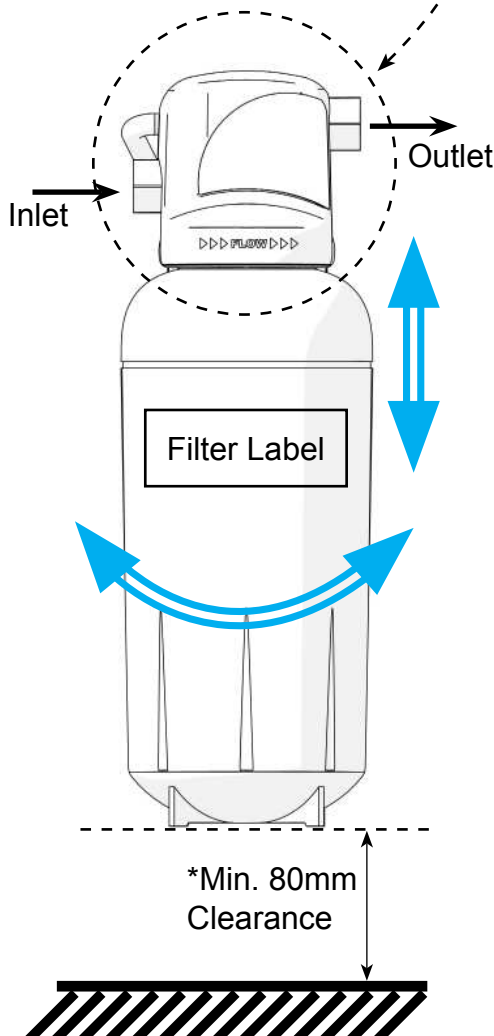
An external filter / Softener may be fitted to reduce the incidence of scale build up in the hot tank or may be at the customer's request.

4.1 Mounting the filter head



- Choose a suitable location, (cupboard back or side wall) within the reach of the braided hoses.
- Mount the filter head bracket in an upright position, using the screws supplied in the kit
- Ensure there is enough headroom for the filter cartridge to be easily fitted and removed. *Allow a Min 80mm base clearance
- Attach the hoses as shown in section 6. Noting the flow directions as marked on the filter head.

4.2 Cartridge Installation



1. Unpack replacement cartridge, write today's date where shown on the label and remove the sanitary cap.
2. Avoid touching the filter O-rings and filter opening as this may cause bacterial contamination of the cartridge.
3. Moisten the O-rings with water, align the front cartridge label to the left and push the new cartridge into the filter head.
4. Turn the cartridge a quarter turn to the right until the cartridge comes to a complete stop, with the front label facing forward.
5. Disconnect the filter outlet hose from the undersink unit and direct the hose end into a container ready for flushing.
6. Turn the power and water ON and depress the tap's Boiling lever and allow water to run for 30 seconds to flush the tank.
7. Allow at least 10L to flow through the filter to ensure all carbon particles have been flushed.
8. Turn the power and water off (after flushing 10L).
9. Reconnect the filter outlet hose to the undersink unit.
10. Turn the water supply back on and check for leaks.
11. Set the appropriate selection on the Internal Filter Bypass valve located at the rear of the unit in accordance with Sections 6.1 and 6.2.

Section 5

2.640 KG - CO₂ Cylinder



STORAGE WARNING:

This cylinder must be installed in an open plan area or in an enclosed room, with a volume no less than 50m³. If more than 1 gas cylinder containing CO₂ is present within the same location, the recommended ventilated area should be in proportion to the number of gas cylinders stored in that location.

A ventilated area is a non-enclosed area which could include the kitchen, living room etc.

See gas bottle and MSDS sheet for a complete list of warnings. (See: www.zipindustries.com)

5.1 Secure the cylinder cradle

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

5.2 Connect the regulator:

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

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



5.3 Connect the gas hose:

Connect the braided gas hose to the top of the underbench unit via the John Guest fitting marked 'Gas IN'. Then connect the threaded end to the regulator (Do not lose the small sealing olive). When commissioning, turn the gas ON by rotating the valve on top of the cylinder, anti-clockwise. Then adjust the outlet pressure, by rotating the regulator knob in a clockwise direction, to between 2.7- 3.0 bar (green zone)

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



5.4 Test for gas leaks:

When commissioning, use soapy water to perform a leak test. Apply the soapy water to the two gas connections using a sponge or brush. If any bubbles appear and grow, there is a gas leak at the connection. Clean away the soapy residue and tighten or refit the leaking connection. Make sure the gas is turned off when tightening or refitting the leaking connection.

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

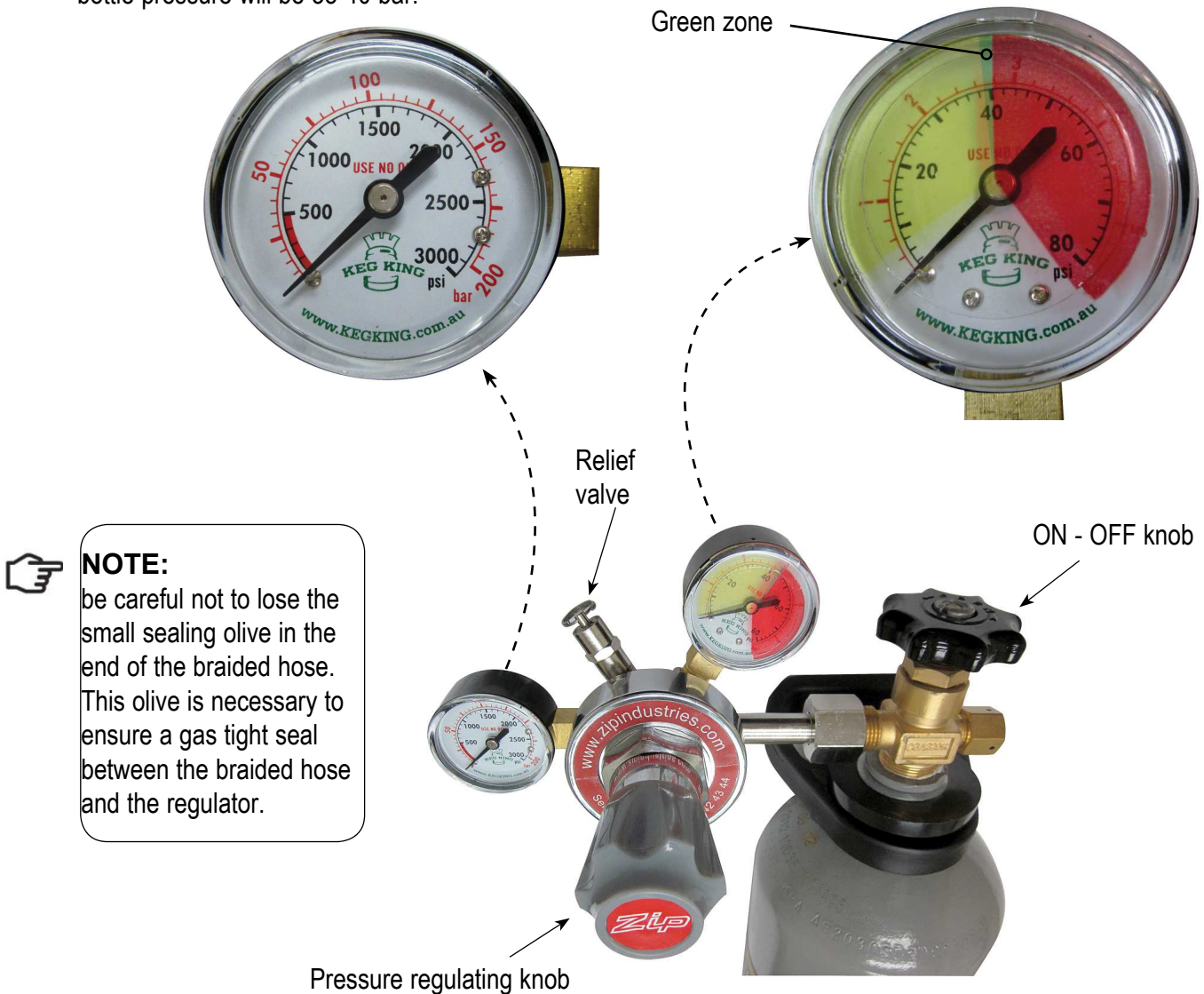
NOTE: Care must be taken when working with high pressure carbon dioxide, and in no cases should the normal operating pressure of between 2.7- 3.0bar be exceeded.



CO₂ Regulator

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

This gauge shows the adjustable limit (2.7- 3.0 bar) required for the HydroTap to function correctly



5.5 - Leak Test

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

Stage1:

1. Turn the gas OFF
2. Using soapy water applied with a sponge, or with a brush, cover all of the gas joints with a liberal amount of suds.

Stage 2:

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



Section 6

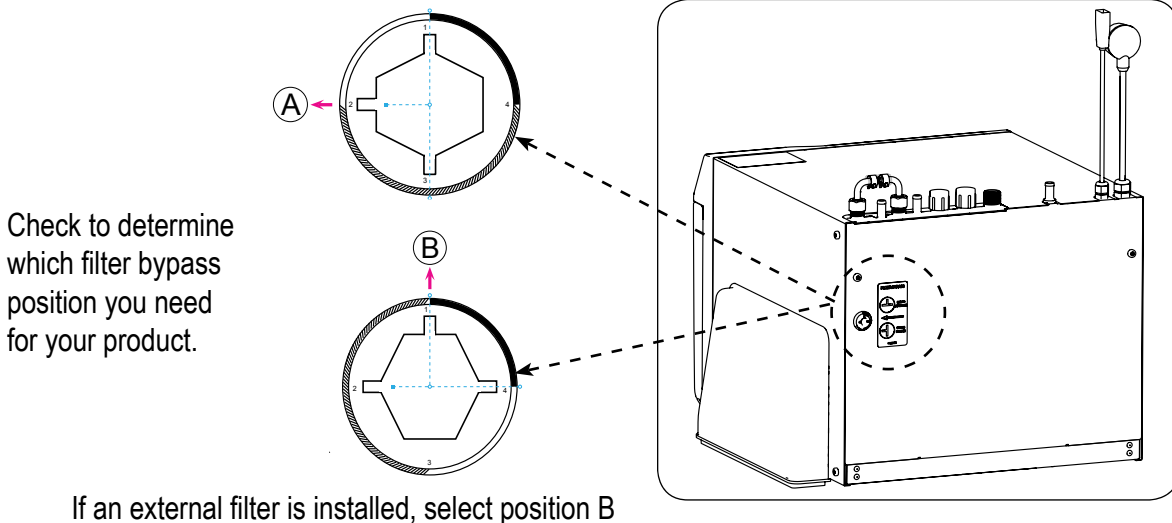
Underbench Unit Installation

Note: Before you install a unit, determine whether a water softener or an external filter is required.

6.1 External Bypass Valve

The diverter 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 diverter valve is located at the rear panel of the Zip HydroTap underbench unit on the filter door side, see the image below.

If no external filter is installed, select position A



If an external filter is installed, select position B

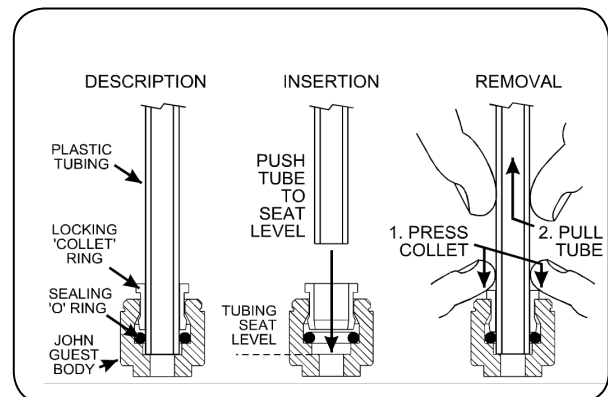
6.2 Hose and tube fitting

- Remove all caps from the top of the undersink unit
- Fit the foam insulation to the Blue and to the White tubes after trimming them to length
- Install the mains water braided hoses to the undersink unit before locating the unit in place.

John Guest fittings (Insertion and removal)

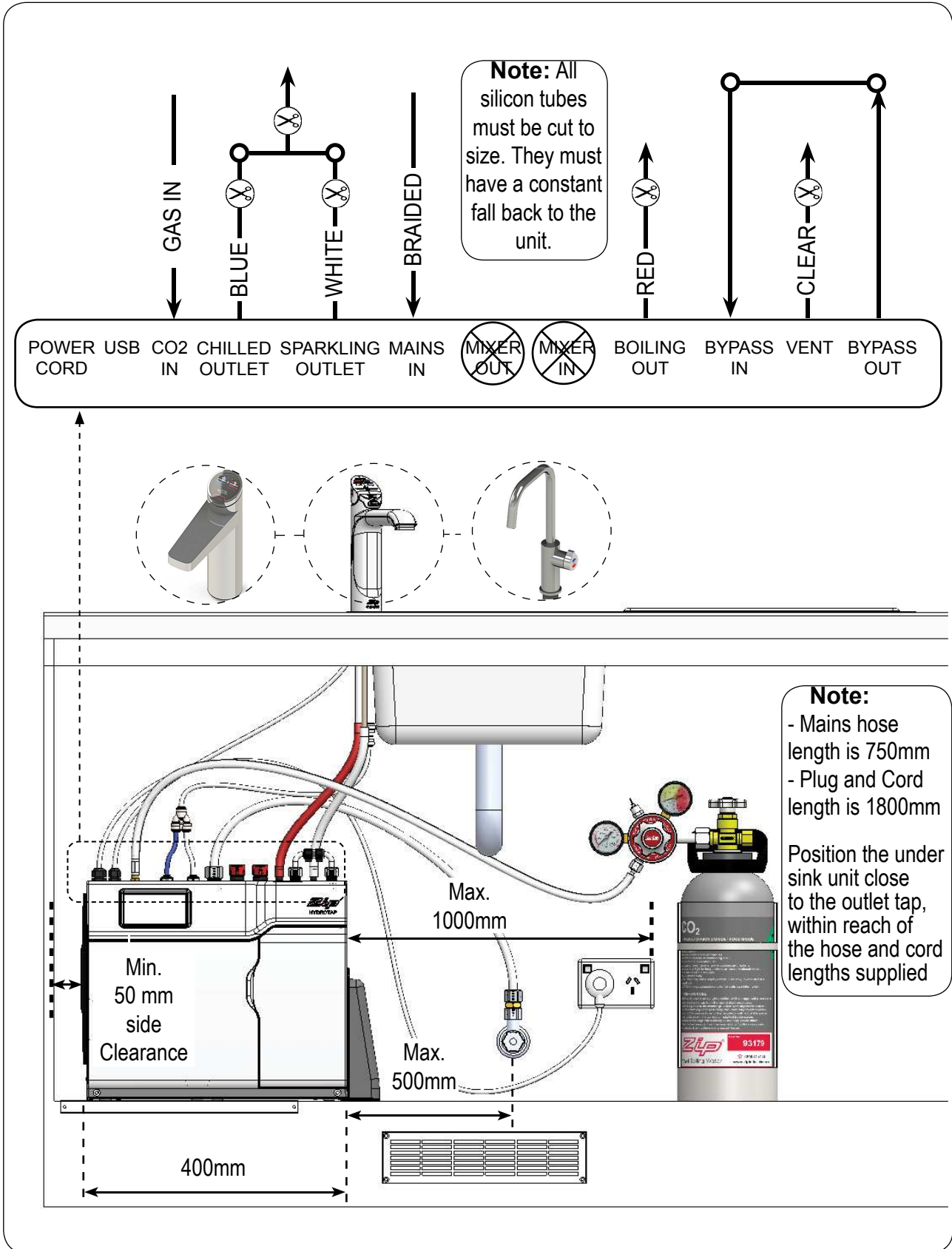
Be careful when cutting the poly tube so that there are no rough edges and that the tube is not distorted.

1. Use a sharp knife to ensure the tube has a clean, straight edge. Do not cut at an angle.
2. Remove any swarf or unwanted material.
3. Push the tube into the John Guest fitting making sure all connections to the John Guest fittings are pushed in past the "O" ring to full depth, at least 15-16mm.
4. Check for a good joint by pulling back on the tube. If the tube comes out, of the fitting, repeat the above step.
5. To remove the tube, press the collet into the fitting and at the same time pull back on the tube.



Installation Instructions

6.3 Models BCS 160/175

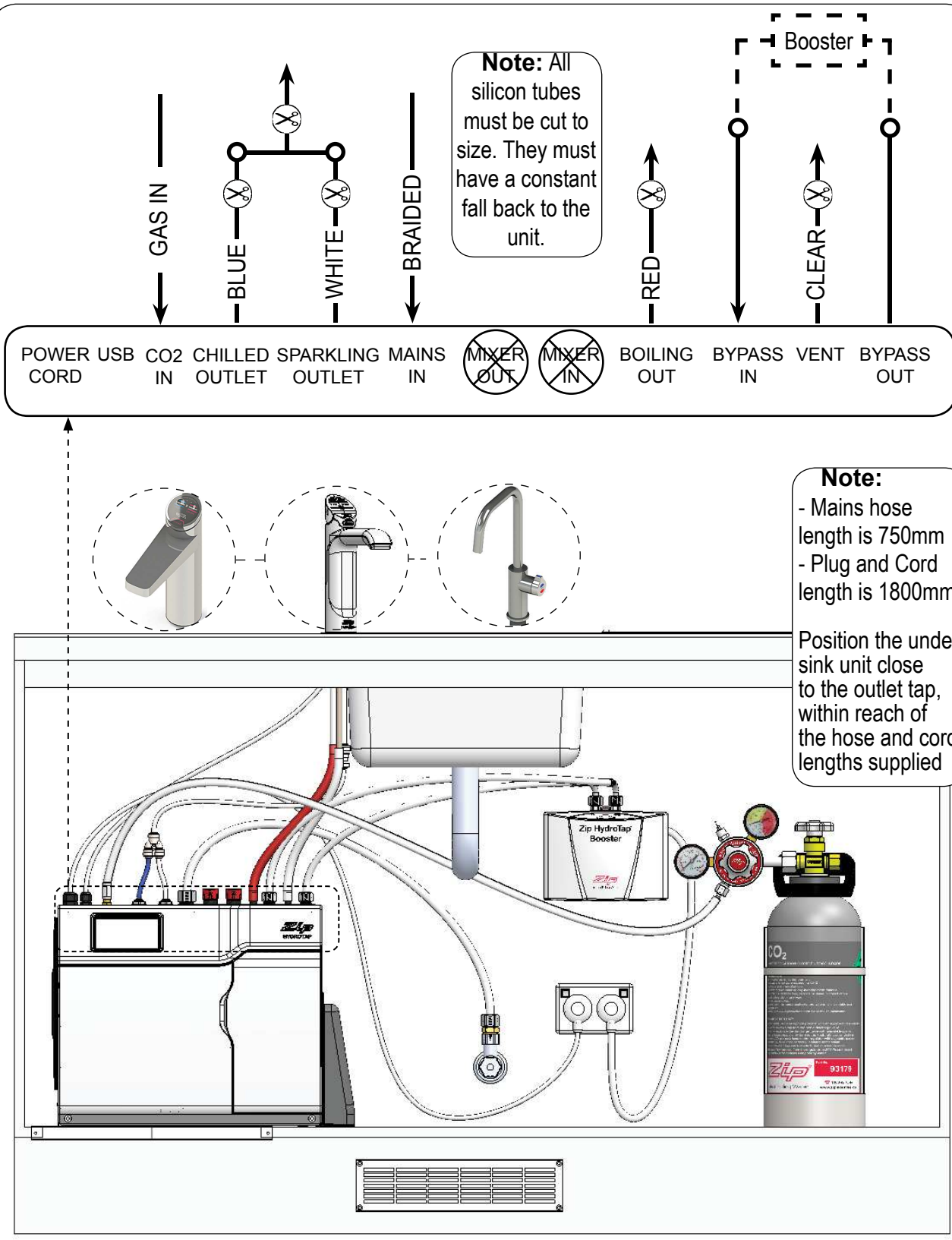


Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened

⊘ : Not required for standard BCS HydroTap models.

Installation Instructions

6.4 Model BCS 240/175

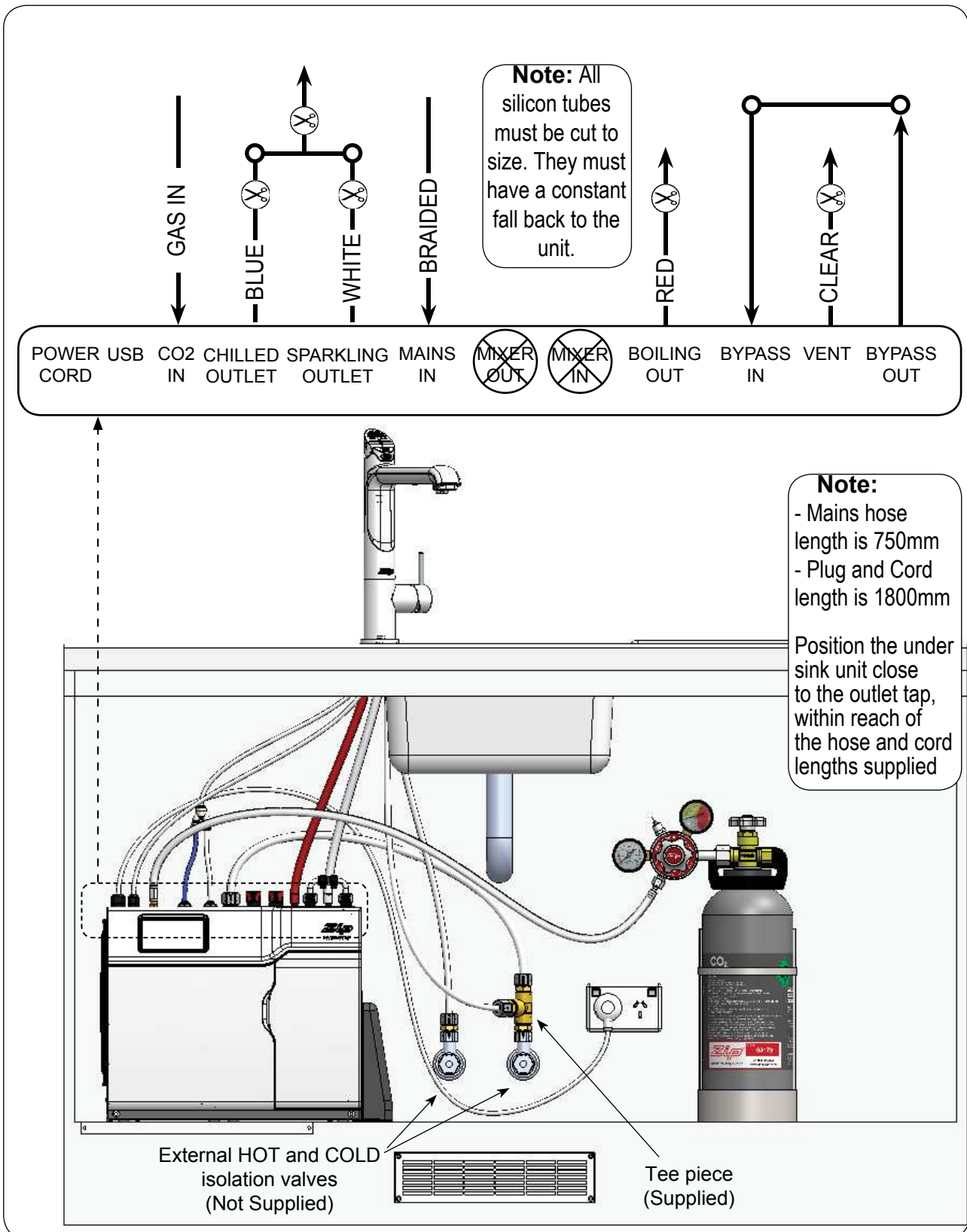


Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened

⊘ : Not required for standard BCSHA HydroTap models

Installation Instructions

6.5 Model All-In-One Mains Pressure - BCSHA 160/175



Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened

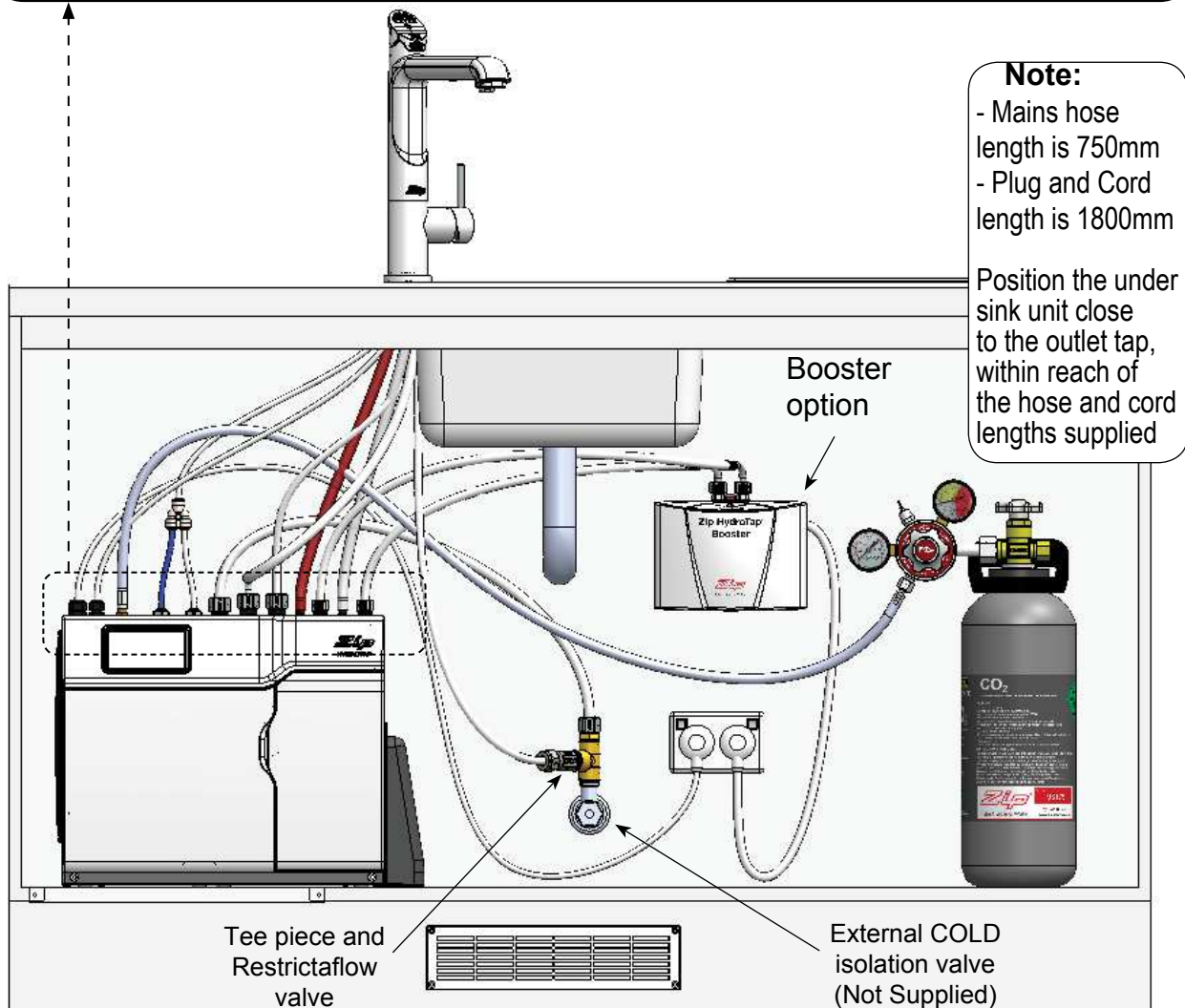
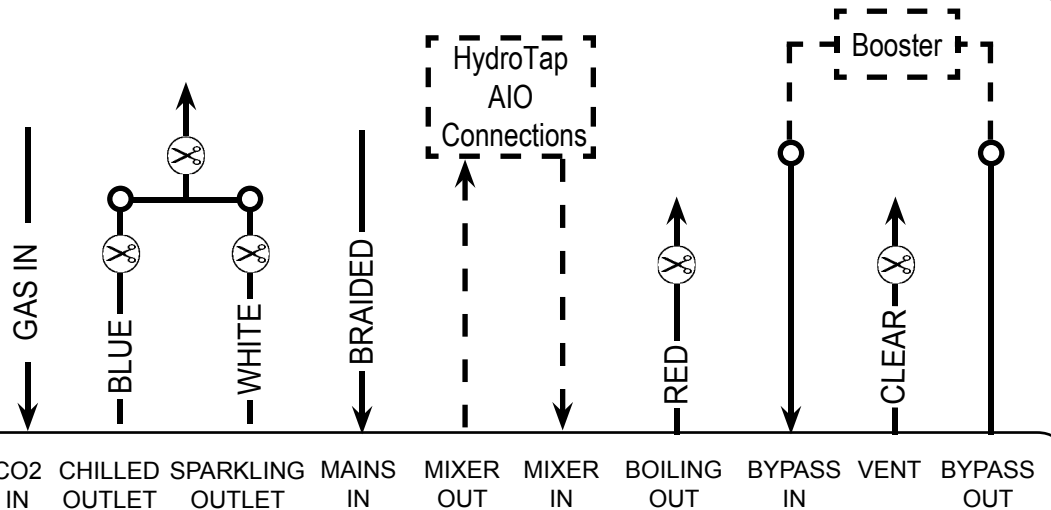
Note: to activate the filter, flush at least 10L of water through the filter before connecting to a softener or to a Booster heater.

⊘ : Not required for AIO mains pressure HydroTap.

Installation Instructions

6.6 Model All-In-One Vented - BCSHA-AV 240/175

Note: All silicon tubes must be cut to size. They must have a constant fall back to the unit.

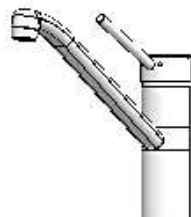
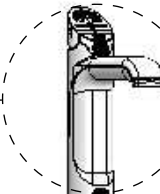
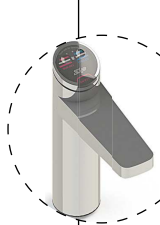
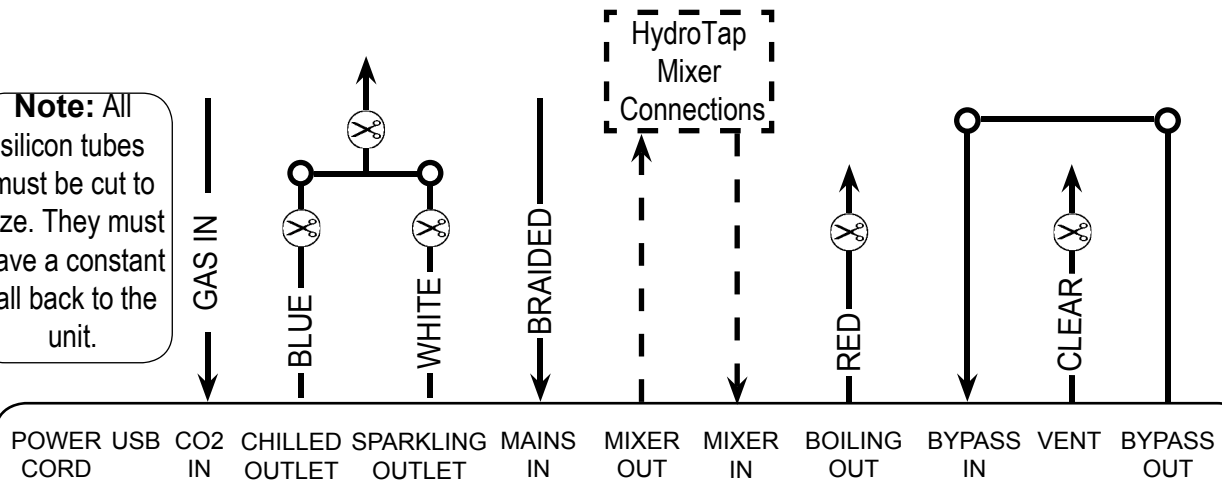


Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened
Take time to consider hose lengths when determining the mounting positions for the options

6.7 Model HydroTap 5-In-1 Vented - BCSHA 160/175



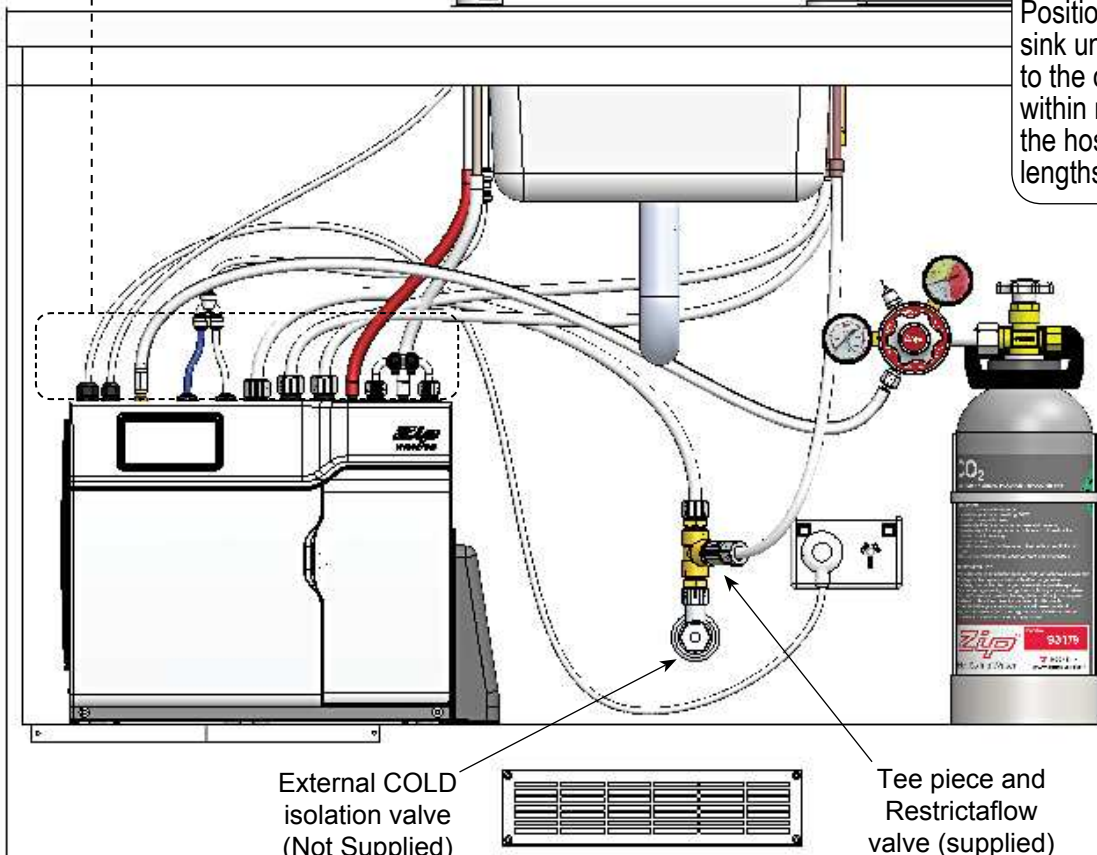
Note: All silicon tubes must be cut to size. They must have a constant fall back to the unit.



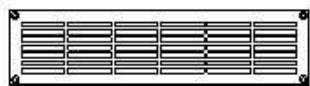
Note:

- Mains hose length is 750mm
- Plug and Cord length is 1800mm

Position the under sink unit close to the outlet tap, within reach of the hose and cord lengths supplied



External COLD isolation valve (Not Supplied)

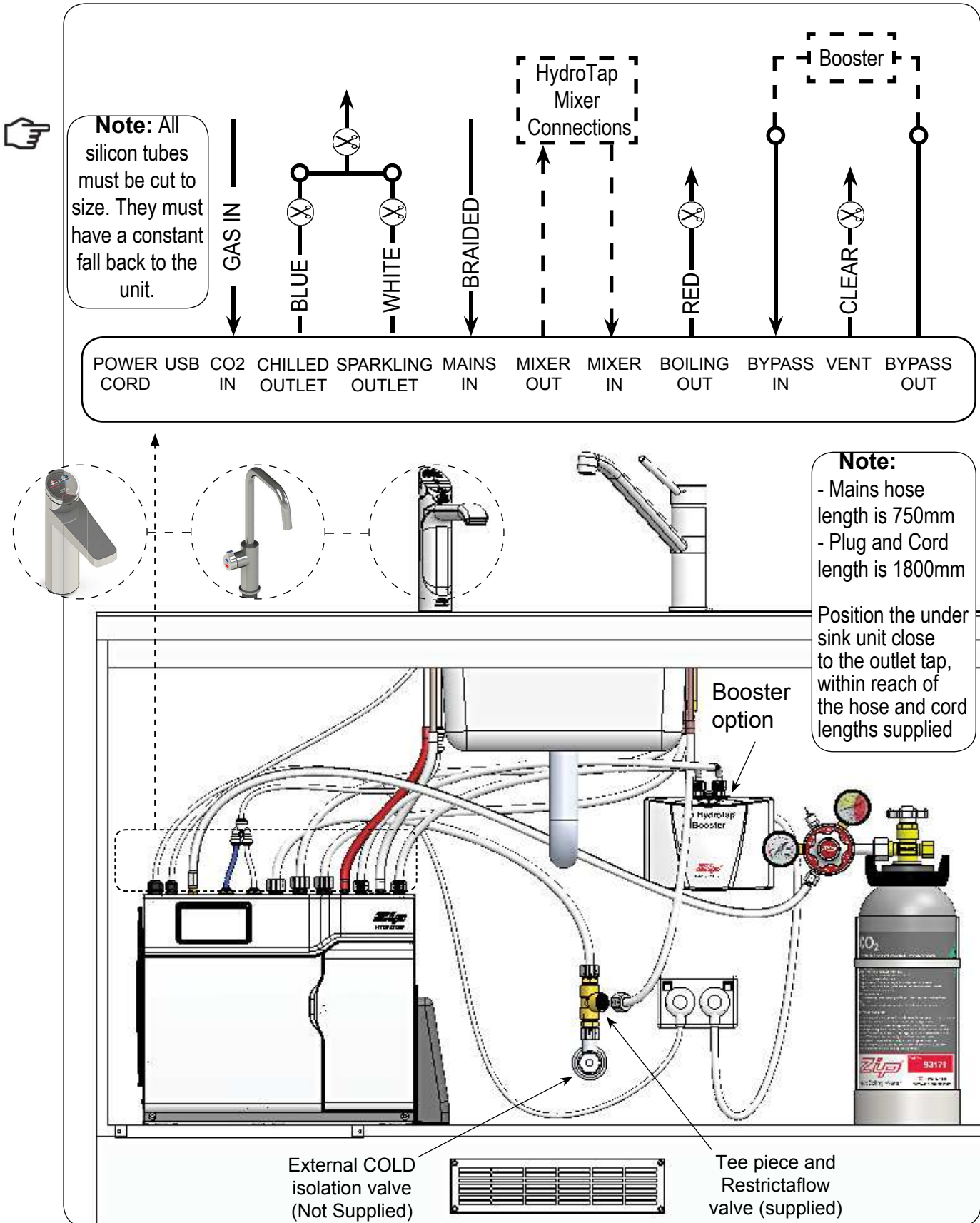


Tee piece and Restrictaflow valve (supplied)



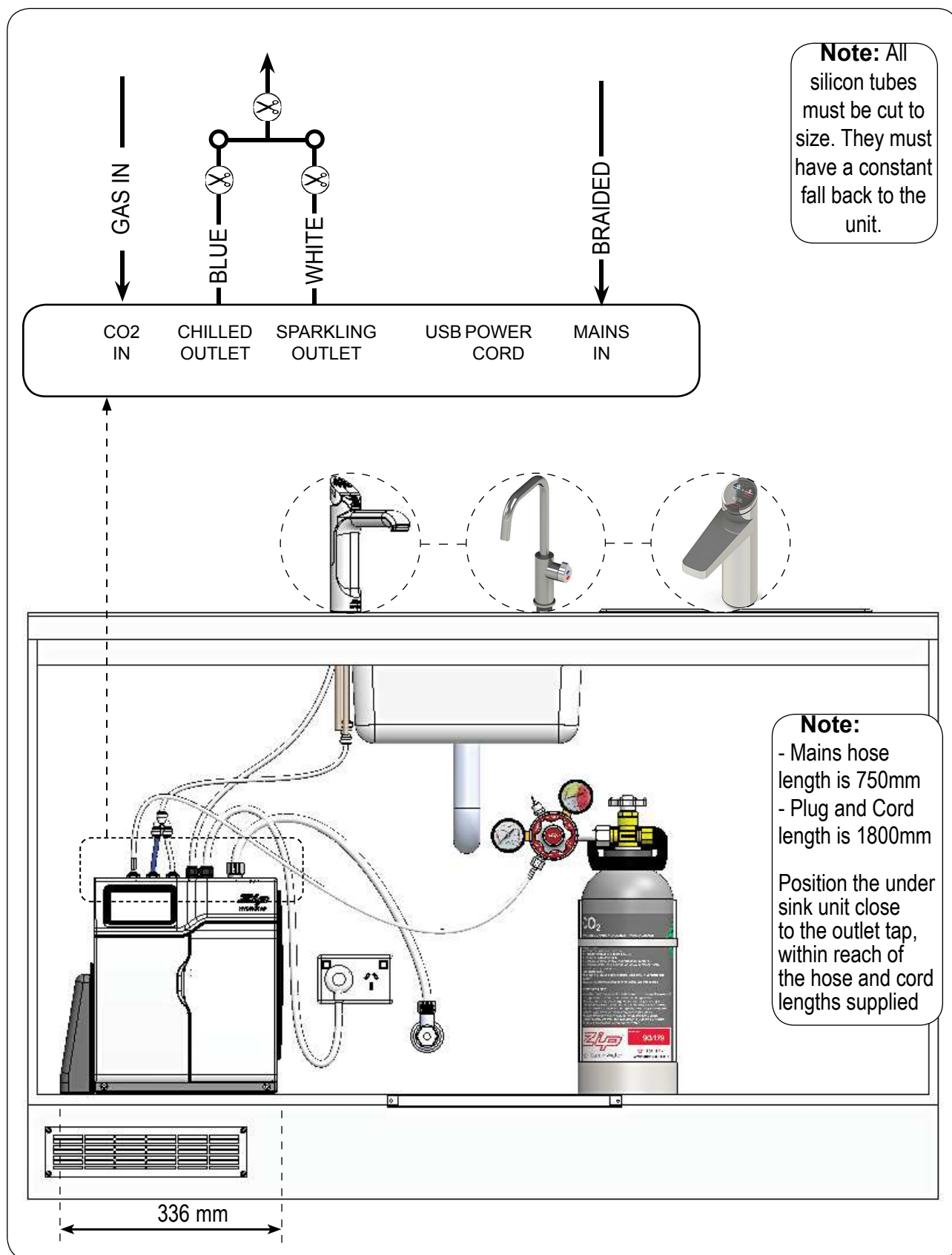
Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened

6.8 Model HydroTap 5-In-1 Vented with a Booster - BCSHA 240/175



Note: The tube lengths are matched to the pumps performance and therefore CANNOT be lengthened

6.9 Chilled Sparkling Model - CS 175



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

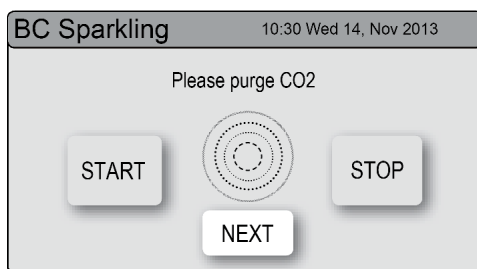
Section 7

Commissioning

The HydroTap is now ready to be commissioned.

- Turn ON the water and gas and check for any leaks.
- Turn the power ON at the GPO and at the side of the undersink unit
- If fitted, ensure the Booster is turned OFF. (The Booster is commissioned, later, at section 7.4)
- Familiarise yourself with the operation of the Tap, in preparation for use (See User Guide)
- Follow the Installation instructions below (and review Section C of the User Guide).
- Initially you will be prompted to select a language
- After commissioning, the system may be customised by selecting further options in Section G - Settings, within the User Guide.

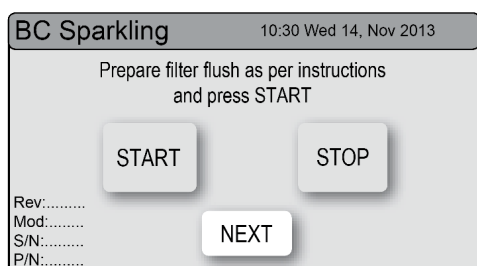
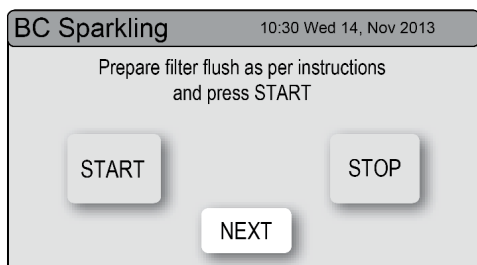
7.1 - CO₂ Purge



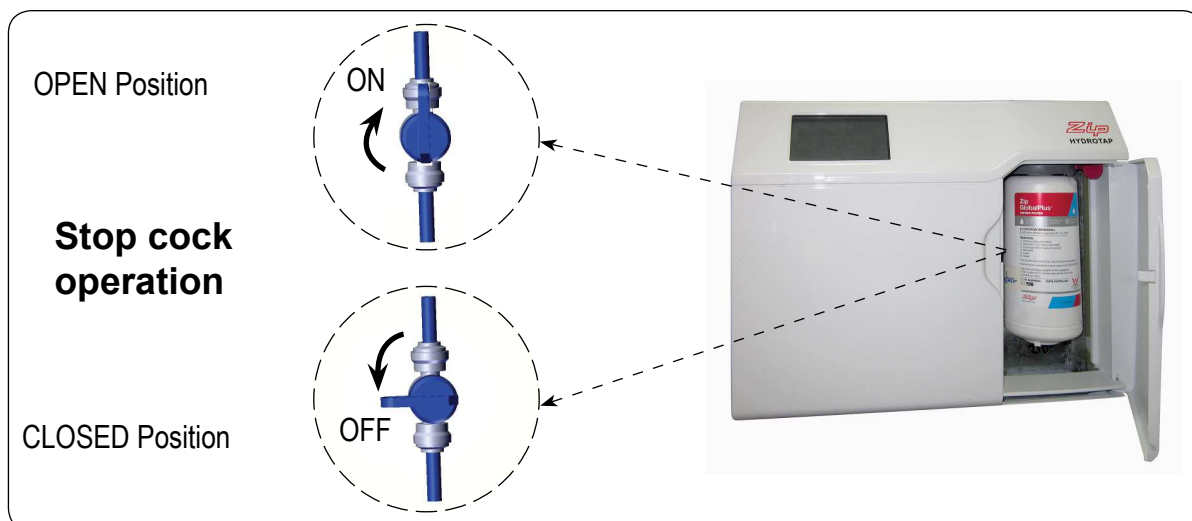
1. Press the [START] button to commence the purging process.
2. Purge for 10 seconds and ensure all water has stopped flowing through the tap. (You will hear the CO₂ gas escaping from the tap).
3. Press the [Stop] button.
4. Press [Next] for the filter flush screen

7.2 - Filter Flush

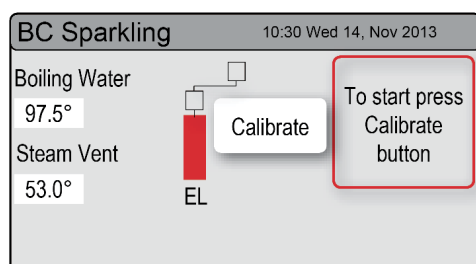
Have a 10L bucket or similar container (not supplied) at the ready to hold a quantity of water that will be ejected while the Filter Flush Mode is in operation. Open the filter access door on the front of the HydroTap and the filter cartridge will be exposed. Located to the rear RHS of the cartridge is a flush line, approx 600mm long and the flush line stop cock. Place the valve end of the flush line into the 10L bucket or container.



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

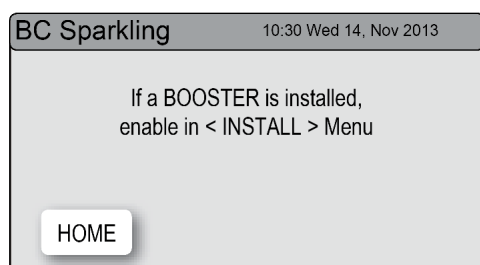


7.3 - Boiling Calibration (Boiling models)



- Press the calibration button and the system will commence the Boiling calibration procedure. This will take approx 5-6 minutes.

7.4 - Booster (240/175 models)

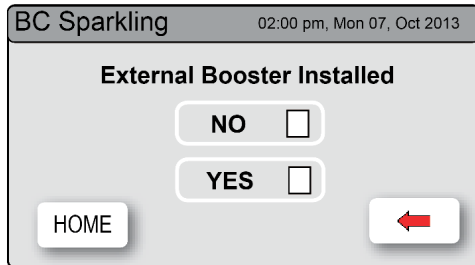


- Upon completion, a Booster reminder screen will appear and allow you to return home by pressing the [Home] button.
- Check the Date and Time settings (See Note below)

NOTE: failing to make the correct selection for the “Booster”, will affect product performance.

NOTE: Depending on your location you may need to re-set the internal clock. See section G of the user guide to check and if necessary, reset the Date and Time for your time zone.

To enabled when a Booster unit is installed.



1. Press the [MENU] button for main menu.
2. Press the [Install] button.
3. Press the [Booster] button.
4. In the next screen, press YES to enable the Booster.
5. Turn the Booster ON
6. Water must be run through the Booster for a min of 30 seconds, before the heater will activate.
7. Dispense boiling water for 30 secs and check the Booster outlet hose is warm when the boiling water tank is replenishing.

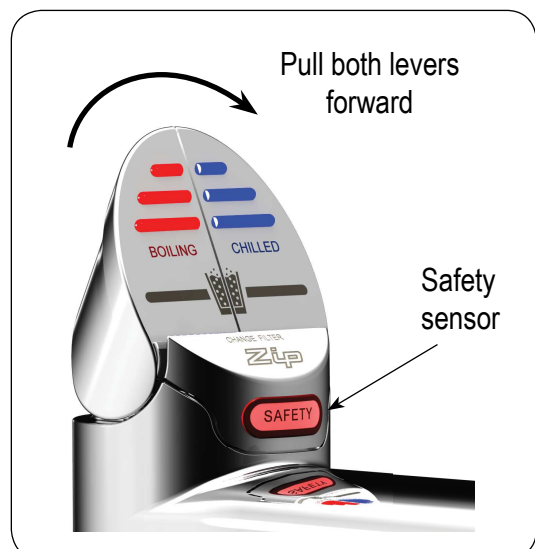


NOTE: For any subsequent filter changes or any operational procedures, please refer to the HydroTap user guide, located inside the filter housing access door.

7.5- Safety Sensor Calibration (Boiling models)

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 natural sun light must be shaded from the HydroTap, during the calibration. This can be achieved by closing any nearby curtains, blinds, or by shielding the HydroTap with a dark cloth.

1. With the unit in Normal operating mode and with the safety enabled
2. Turn the power OFF
3. Pull both tap levers to the forward position
4. Turn ON the power
5. The unit will calibrate the safety switch
6. Return the levers to the neutral position.
7. To check the calibration, dispense Boiling water, in normal light conditions with the safety enabled.



Trouble Shooting

System Fault Message	Possible Cause	Solutions
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

Call an electrician, a plumber, or Zip for a free call in Australia on 1800-638-633 for assistance, service, spare parts or enquiries.

End of Life Disposal

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details.

Contact Details

Head Office

Zip Heaters (Aust) Pty. Ltd.
ABN: 46 000 578 727
67 Allingham Street
Condell Park NSW 2200
Postal: Locked Bag 80
Bankstown 1885 Australia

Website: www.zipwater.com
Facsimile: (02) 9796 3858
Telephone: (02) 9796 3100
Free Call: 1 800 638 633

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 standard cup referred to in this publication is 167 ml (6 fl oz).

The standard glass is 200 ml (7 fl oz).

The terms "Zip" and "HydroTap" are registered trade marks of Zip Heaters (Aust) Pty Ltd.

Zip products described in this publication are manufactured under one or more of the following patents: AU675601, AU637412, AU635979, GB0422305, GB2065848, US4354049, US5103859, US5099825 and SA2006/08043. Other patents are in force and patent applications are pending.

