



SC80 Installation & User guide

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IMPORTANT INFORMATION AND SAFETY INSTRUCTIONS

PLEASE READ ALL INSTRUCTIONS CAREFULLY

When installing and using all electrical appliances, basic safety precautions should always be followed including the following:

DANGER ELECTRIC SHOCK HAZARD

- To prevent electric shock, do not place cord, plugs or appliance in water or other liquid.
- Do not operate any appliance with a damaged cord, plug, or after the appliance malfunctions.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not attempt to service this product. Repairs should be done by authorized service personnel.
- Do not use outdoors or in damp areas.

WARNING FIRE HAZARD

- When installing the appliance, allow a minimum airspace of 100mm around the back, sides, and top of the chiller unit for air circulation. Nothing should be placed in front of the unit and there should be a 150mm air space in front of the warm air outlet maintained at all times

WARNING PERSONAL INJURY

- 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.
- This appliance is intended for use in household and similar applications, such as light commercial (up to 8 staff), the hospitality industry, and related residential type environments.

SPECIFICATIONS

Volts: 220-240 V ~ 50 Hz | Watts: 210 W | Amps: 1 A

Gas: Freon R134a Kg 0.100 Class N

Water supply pressure into chiller: MAX 300kpa | MIN 150kpa

Capacity at 3-10C°: 3L continuous flow | 15 L per hour

Made in Italy

INSTALLATION PRE-REQUIREMENTS

Power supply

- A standard 10amp 3pin power outlet conveniently placed within 1m of the intended location of the boiler tank. This must be installed by a qualified electrician.

Water supply

- A standard Cold water supply fitted with a 15mm stop tap situated within easy access of the intended location of the boiler tank. This must be installed by a qualified plumber.
- Supply water pressure must not exceed 1000kpa with pressure regulator installed.
- Water supply must be microbiologically safe.

WARNING PROPERTY DAMAGE

- In situations where any water leakage could result in damage to property, the complete Schwan Installation should be installed over a **Drained Safe Tray**, plumbed to an appropriate drain.

Trouble shooting

Unit shutdown page 30

Fault	Cause	Action
Chiller system will not start	No power / water or faulty chiller unit	Check power and water supply is on, if so then shut down unit Call MERQUIP
Unit chilling full time and producing cold water	Ventilation below min requirements. The unit is running at MAX capacity.	Increase cabinet ventilation make sure the chill temp is not on MAX. if still faulting shut down unit and Call MERQUIP
Unit Chilling full time but water is not cold.	Unit has little or no ventilation The unit is being over used.	Check specs on unit instillation if these are all meet and unit is not being over used then shut down unit Call MERQUIP
Stop tap open but unit has slow or no cold water	Filter needs changing, water supply is blocked or there is not enough water pressure	Replace filter, if still slow shut down unit and Call MERQUIP
Sparkling water has little or no fizz	CO2 bottle empty, CO2 pressure below 3 Bar or the water temp is too high	Adjust CO2 pressure check water outlet temp is below 10deg ^c then replace CO2 bottle if fault not fixed shut down unit and Call MERQUIP
Only gas comes out of Sparkling water outlet	Water supply is not sufficient or there is none at all Safety NO WATER system has tripped	Check to see if red NO WATER light is on make sure stop tap is open if fault continues shut down unit Call MERQUIP
Still water comes out sparkling	Not enough water supply or clogged valves	Shut down unit Call MERQUIP

FOR SERVICE CALL MERQUIP 0800 636 0 636

Filter Change

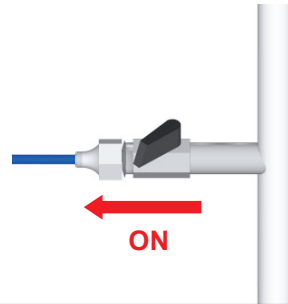
To ensure your Schwan drinking water system continues to provide you with fresh filtered chilled and sparkling drinking water, your Schwan filter cartridge needs to be **replaced at least every 12 months**.

In some situations where there is a lot of sedimentation or chemicals in the water supply, it may be advisable for the filters to be replaced more frequently to avoid annoying slow water flow or chemical taste issues.

1

Leave water supply ON

Filter has auto shutoff valve



2

Twist old filter to the left to remove.



3

Remove and discard the yellow cap from the new filter cartridge.



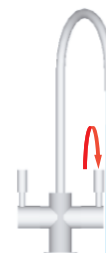
4

Insert new filter cartridge into the filter head and twist to the right until the "stop" is reached

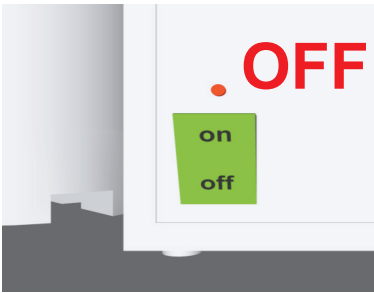
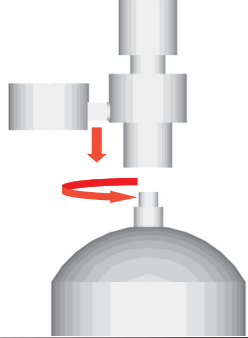
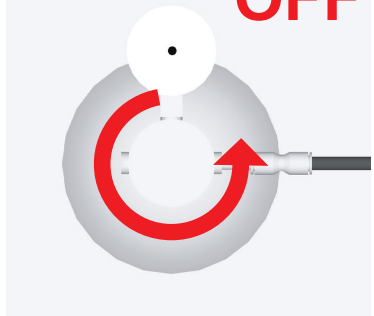
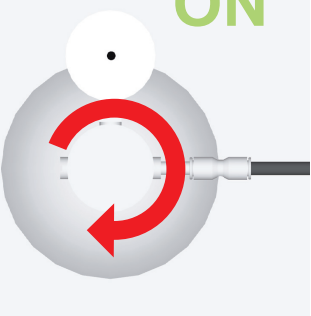




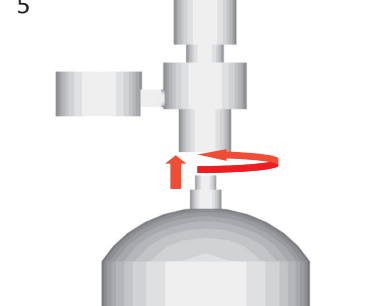


5

Run the cold water for 5 minutes to clear any air bubbles and to condition the filter for use.



CO2 bottle replacement

<p>1</p>  <p>Turn chiller off at switch</p>	<p>6</p>  <p>screw new CO2 bottle onto regulator</p> <p>Some gas will escape</p>
<p>2</p>  <p>Shut gas off at regulator using control knob, turn off gas by tuning knob anticlockwise until it is at full off position.</p>	<p>7</p>  <p>Open regulator by turning knob clockwise Adjust CO2 pressure using control knob to 4 bar.</p>
<p>3</p>  <p>Bleed pressure off at tap for 5 min</p>	<p>8</p>  <p>Turn unit back on</p>
<p>4</p>  <p>Shut off tap</p>	<p>9</p>  <p>Open sparkling side of tap until sparkling water starts to flow leave running for 10 sec then shut off.</p>
<p>5</p>  <p>Unscrew CO2 bottle from regulator</p> <p>Some gas will escape</p>	<p>10</p> <p>Leave CO2 to settle for 1/2 hour then adjust using instructions on next page.</p>

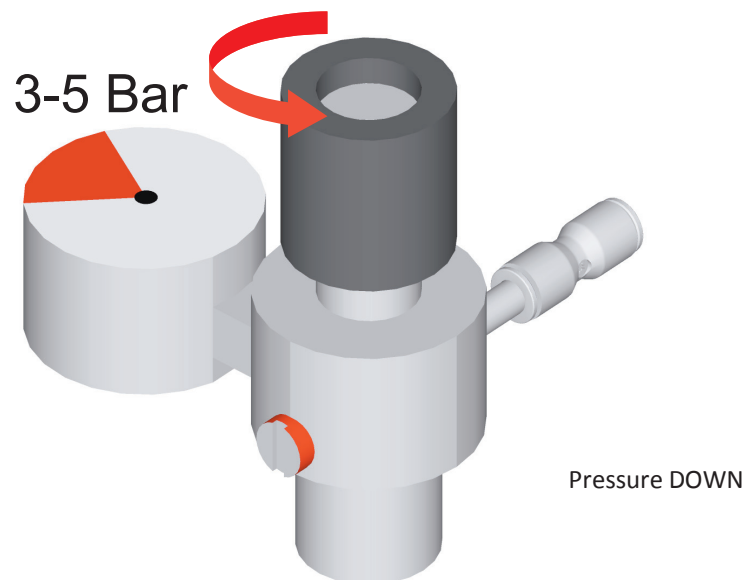
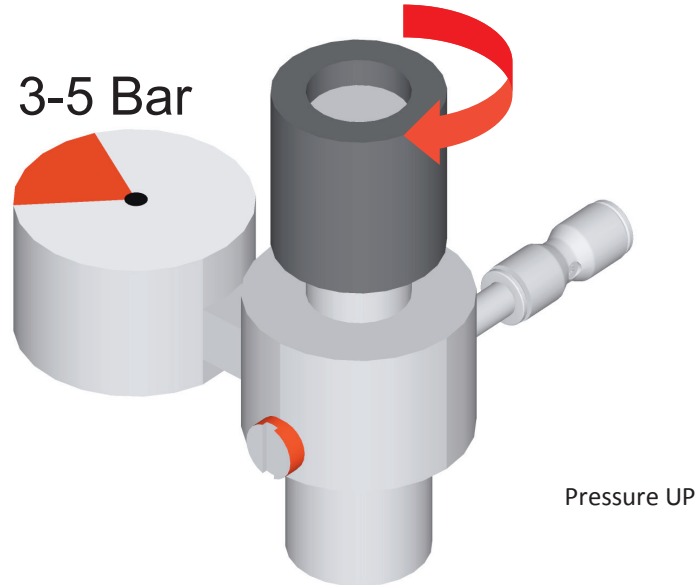
Change CO2 canister when pressure can't be adjusted over 2 bar

CO2 adjustment

By adjusting the knob on the regulator you can adjust the carbonation of the water. The more pressure applied the more sparkle you get. Watch gauge on regulator and **make sure the pressure doesn't exceed 5 Bar**. We recommend not having the unit under 3 Bar as the unit will not produce enough sparkle.



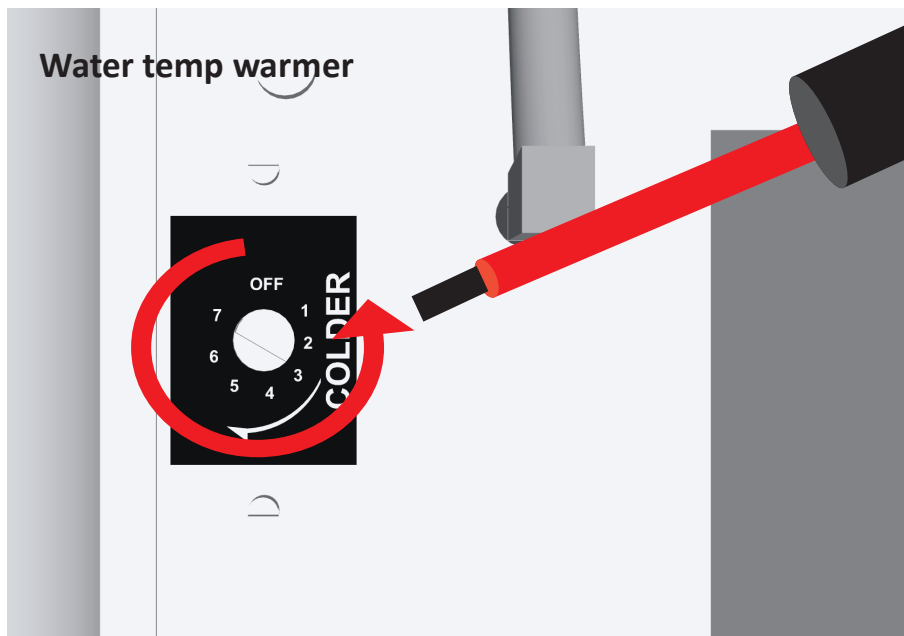
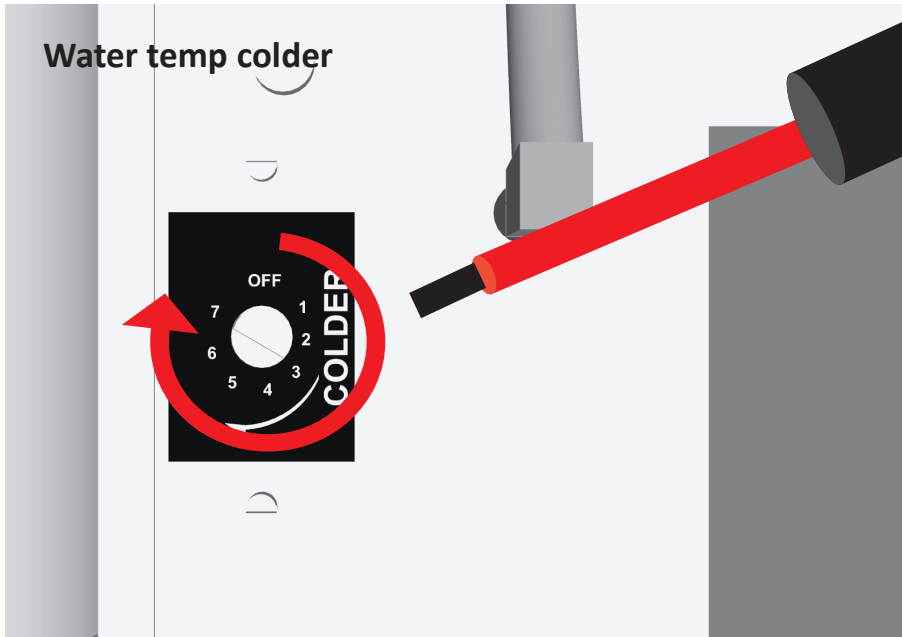
After adjusting pressure run tap until pump starts then re-adjust pressure continue process until right setting achieved.



Pressure must not exceed 5 bar

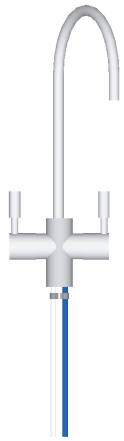
Water temp adjustment

NOTE: turning chiller on MAX chill could cause it to ice up, **use MAX setting at own risk**. Water temp effects the carbonation of the sparkling water — the warmer the water the less fizz the water will hold. The overall best setting to have chiller on is setting 6.



NOTE: Use flat blade screw driver to adjust water temp

Component checklist



1. Dispenser with tubes



2. Dispenser mounting rod



3. Dispenser mounting nut



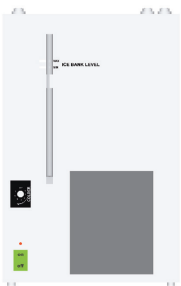
4. Dispenser base with O-ring



5. Dispenser rubber washer



6. Dispenser metal washer



7. chiller unit



8. Filter with filter head



9. Filter bracket



10. chiller 3 pin plug



11. CO2 regulator

12. CO2 disposable bottle
packed in separate box



13. JG reducer 8-6mm



14. JG flow bend support



15. stop tap connector 1/4 inch tube



16. PRV



16. PRV mounting bracket



17. 8mm JG plug



18. 6mm co2 tube



19. 1/4 inch water supply tube



20. 20mm screws x 9

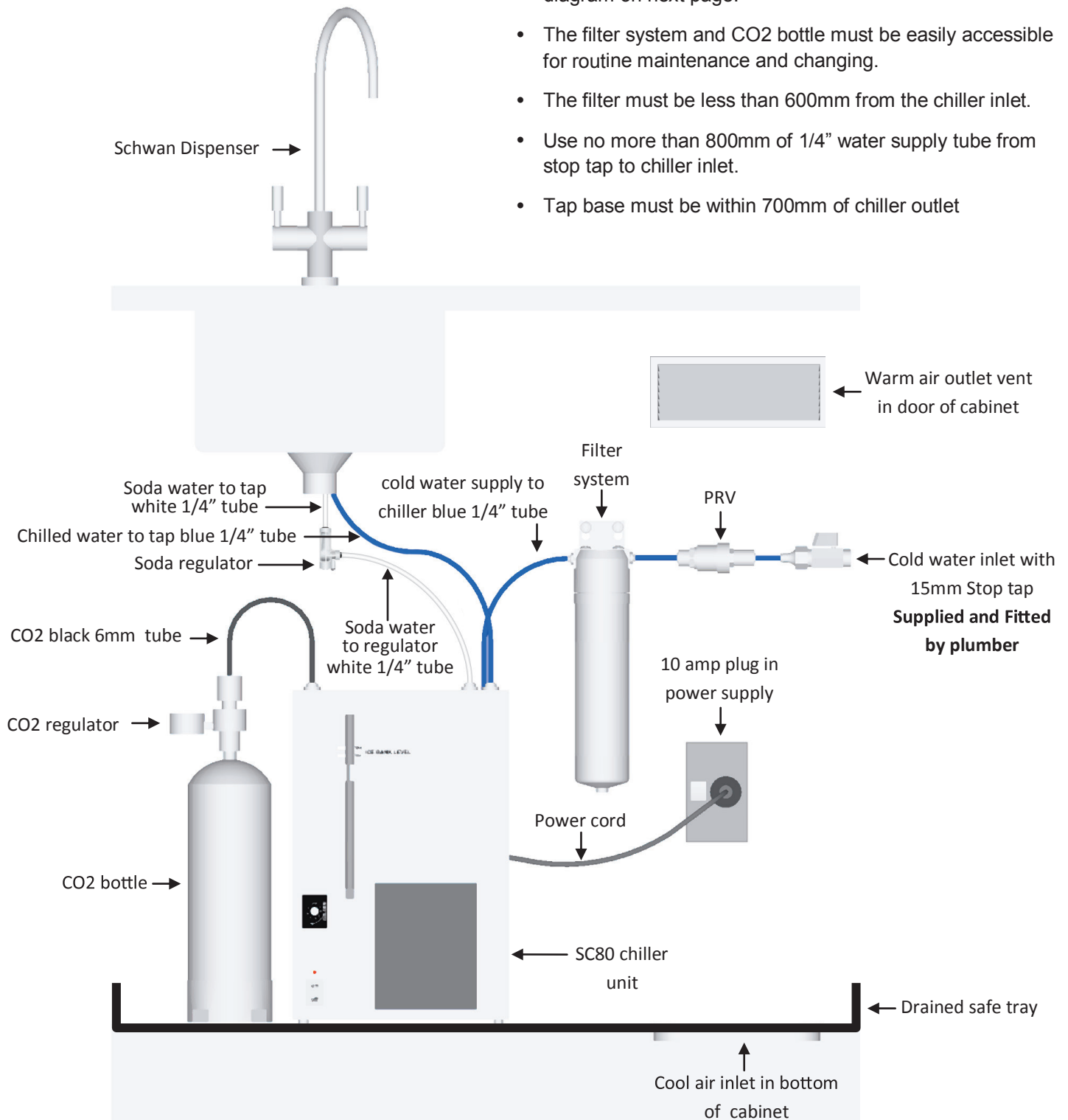


21. Soda regulator

Typical installation layout

NOTE

- Allow a minimum of 100mm air space around the sides, back and the front of the chiller.
- Cabinet must be vented to provide air flow, see venting diagram on next page.
- The filter system and CO2 bottle must be easily accessible for routine maintenance and changing.
- The filter must be less than 600mm from the chiller inlet.
- Use no more than 800mm of 1/4" water supply tube from stop tap to chiller inlet.
- Tap base must be within 700mm of chiller outlet

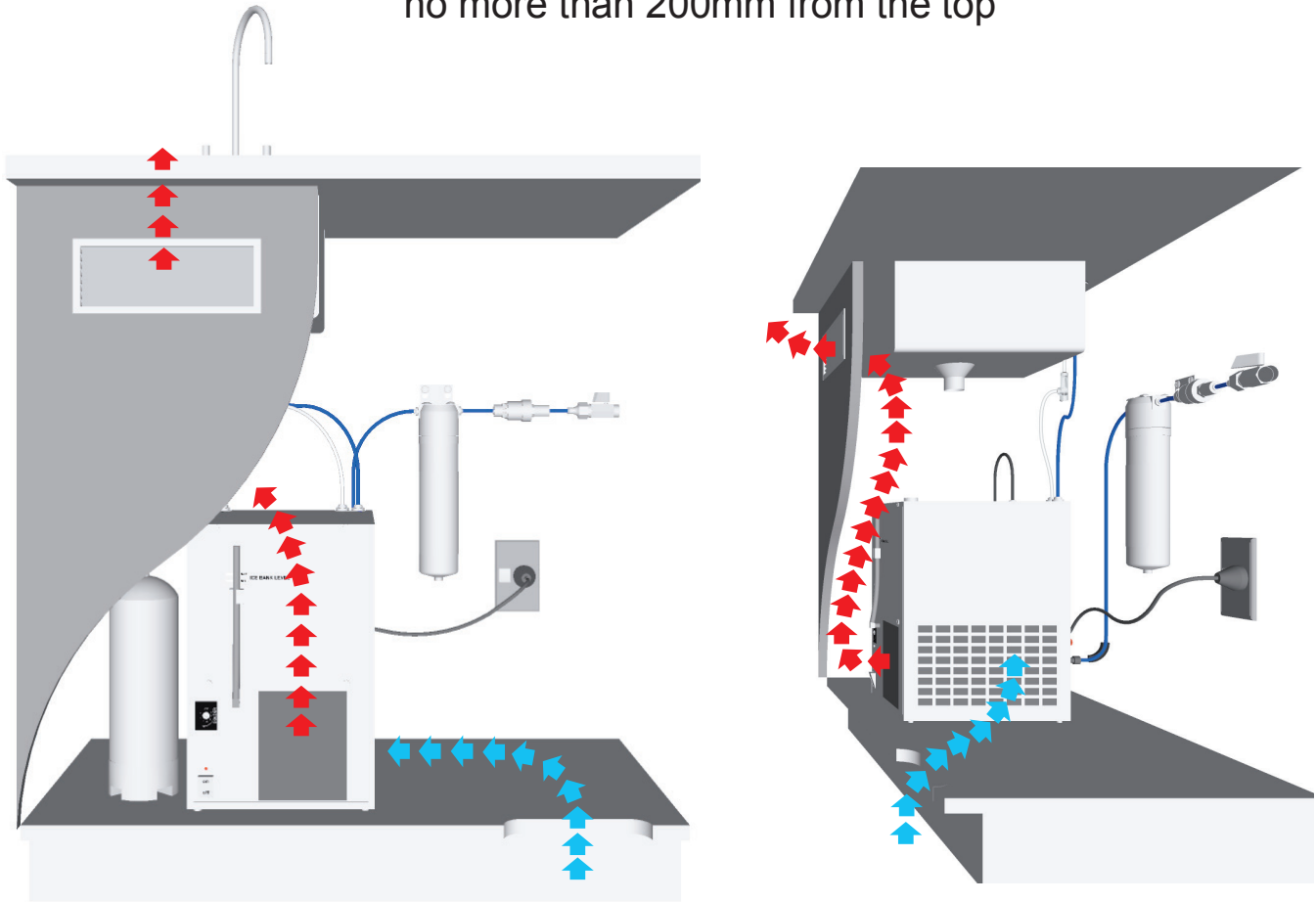


WARNING

In situations where any water leakage could result in damage to property, the complete Schwan installation should be installed over a Drained Safe Tray, plumbed to an appropriate drainage connection.

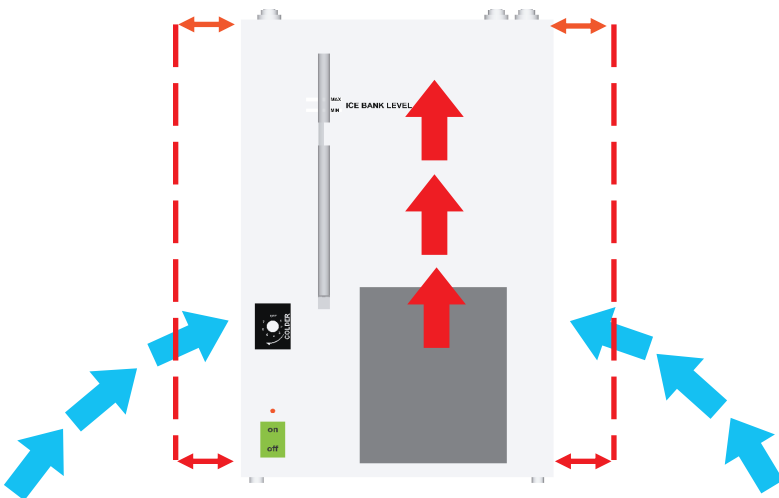
Venting requirements

Cabinet must have an air inlet vent at the bottom and outlet vent no more than 200mm from the top

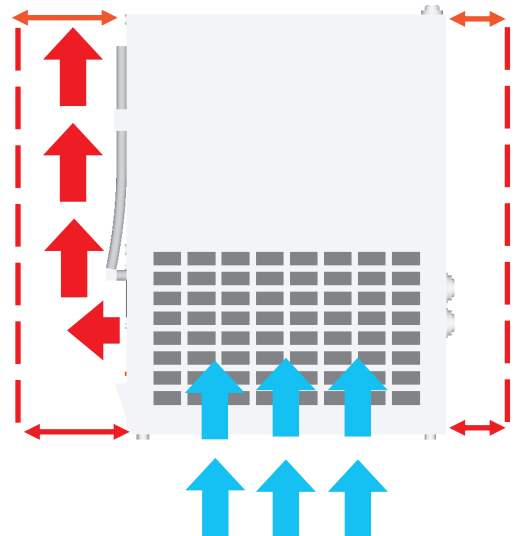


The amount of air space around the unit apply for both passive and fan forced ventilation

There must be a 100mm air space on both sides of the under bench chiller

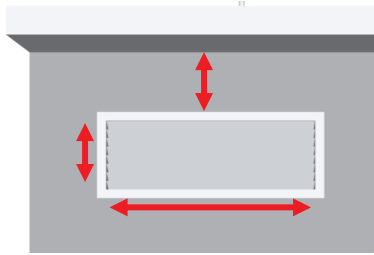


The front of the unit must have at least 100mm of air space

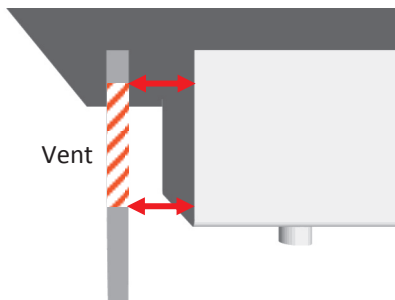


The back of the unit needs 100mm of clearance for tubing.

Venting requirements



Top vent must be a minimum size of 220mm x 90mm and no more than 200mm from top of door



Vent must have a minimum of 60mm of air space behind door for air flow out of cabinet



Bottom cut out of the cabinet must be at least 200mm x 40mm

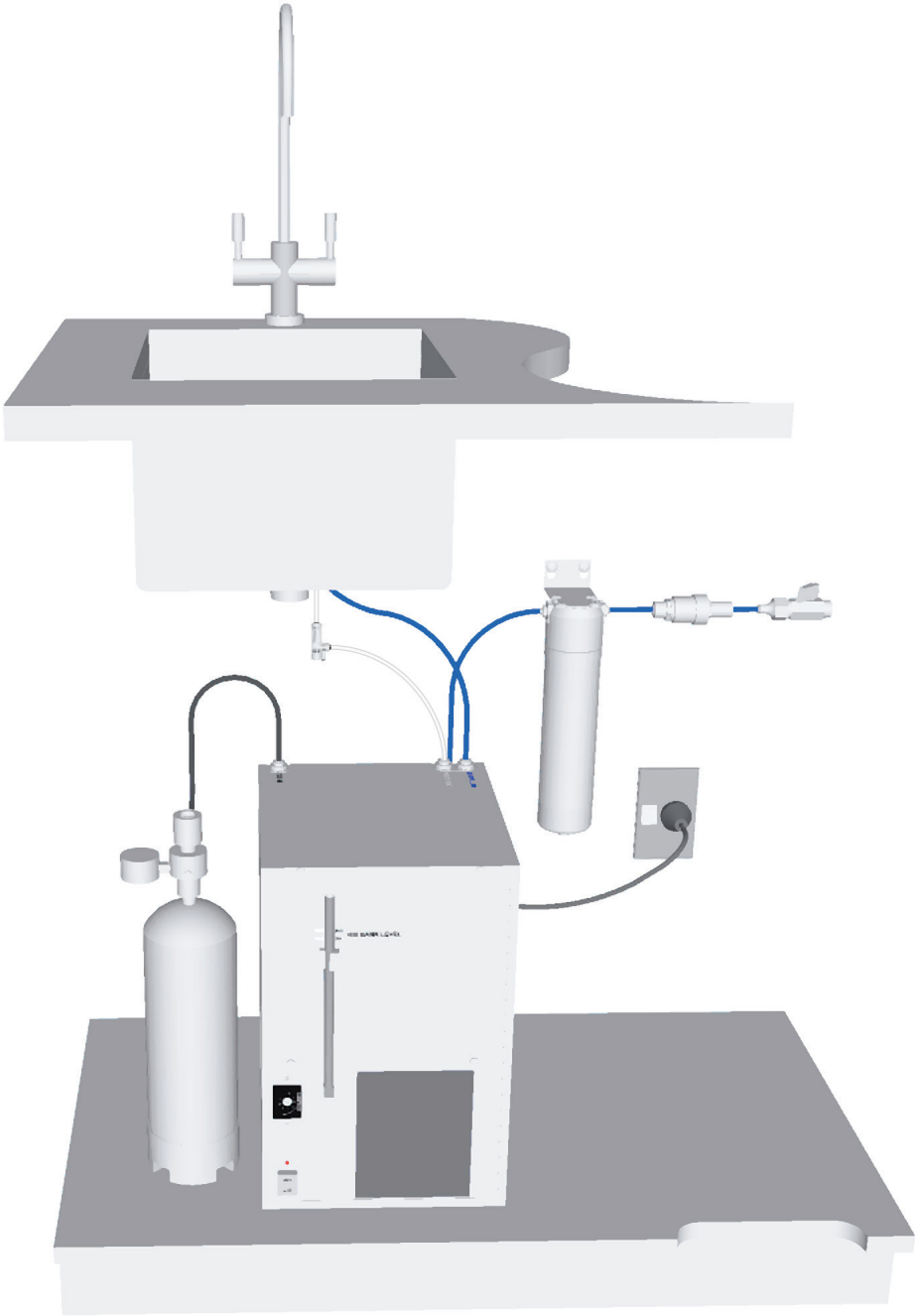
The measurements given are the minimum sizes required to provide sufficient air flow to cool the compressor, any less air flow and the units capacity will be effected.



If there is not enough room to place the right size vents or the cabinet temp is reaching over 27°C

the cabinet will need to be vented using a fan forced system to provide enough air flow.

Installation



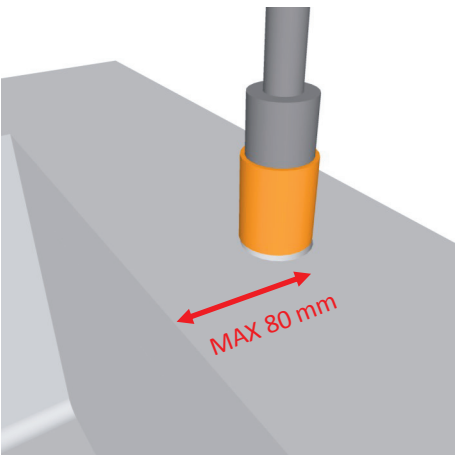
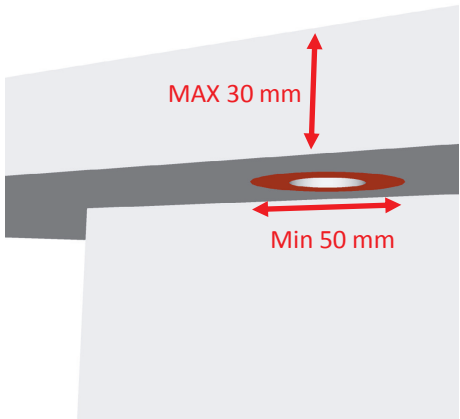
Tap install

NOTE:

The tap can not mount to a surface of more than 30mm thick.

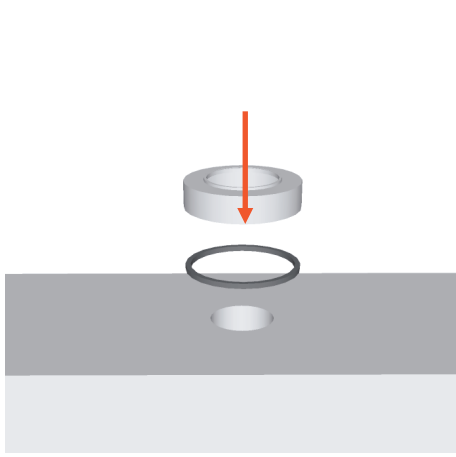
There must be a 50mm diameter flat and solid clamping surface under the bench for the tap mounting system

The centre of the hole must be no further than 80 mm from sink



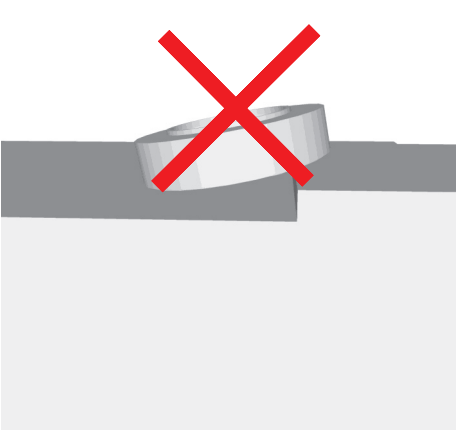
1

Drill 25mm hole in bench top using a hole saw.



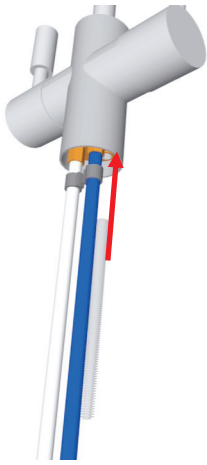
2

Place tap base with washer over the hole in the bench



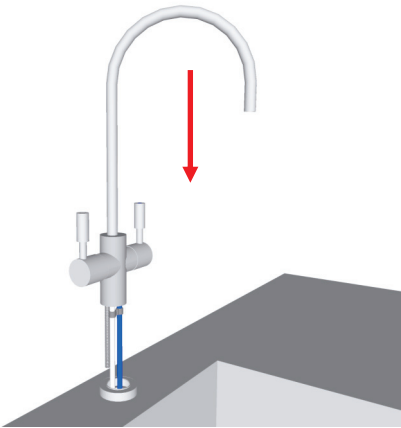
3

Make sure bench top is flat



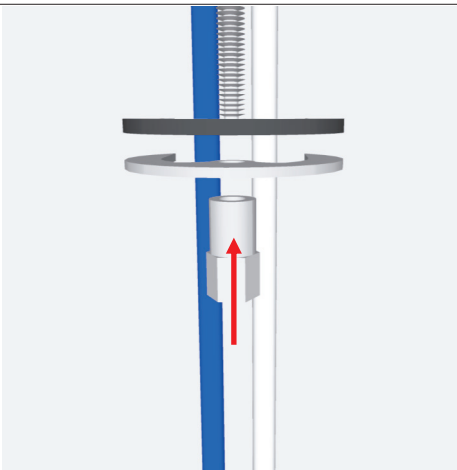
4

Screw mounting rod into bottom of dispenser



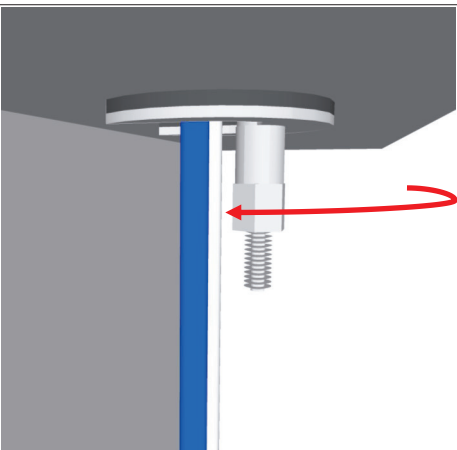
5

Slide dispenser with tubes and mounting rod into hole and sit on tap base



6

Thread washers onto rod rubber first then metal followed by nut

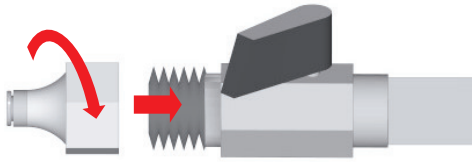


7

Using 13 mm tap spanner tighten nut so tap is firmly mounted on bench

Water supply install

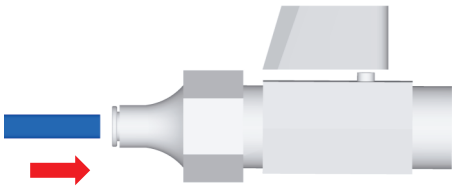
1



Fit 15mm to 1/4 inch adapter to stop tap. Tighten until hand tight then give it a light nip up with spanner.

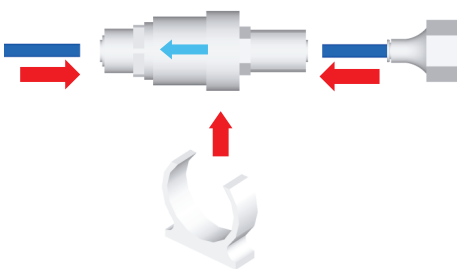
NOTE: Do not over tighten

2



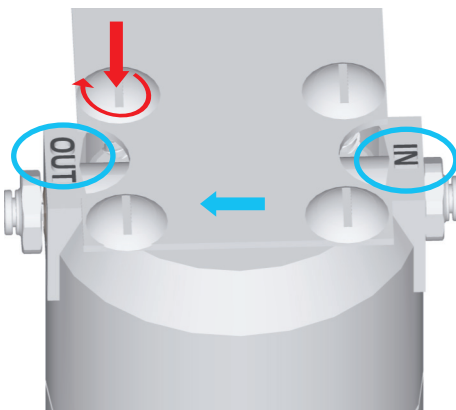
Fit 1/4 inch blue water supply tube to adapter on stop tap
Press fully into connector.

3

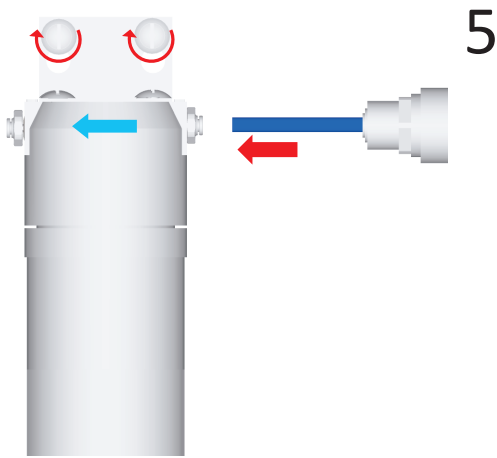


Fit PRV with arrow pointing way of flow, connect blue tube coming from supply to the inlet of the Valve and connect a length of tube to the outlet. Fasten clip to wall using one screw, and clip PRV into place.

4

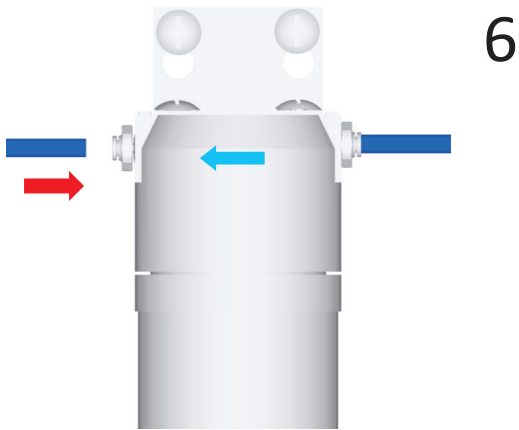


Fit bracket to filter head using 4 screws take note of the **IN** and **OUT** on the head, attach bracket the appropriate way around depending on which side of the chiller the filter is placed on.



Using remaining 4 screws fit filter to wall.
Fit supply tube from PRV to inlet of filter head.

NOTE: make sure that the tube is going into the IN side of the filter head



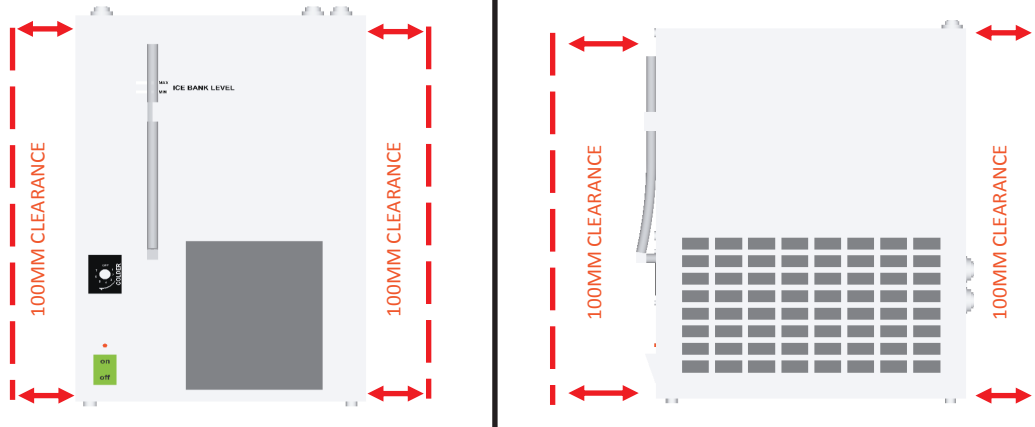
Fit rest of blue 1/4 inch tube to filter outlet
Do not trim tube to length

All tubing must be cut square and clean to fit into fittings



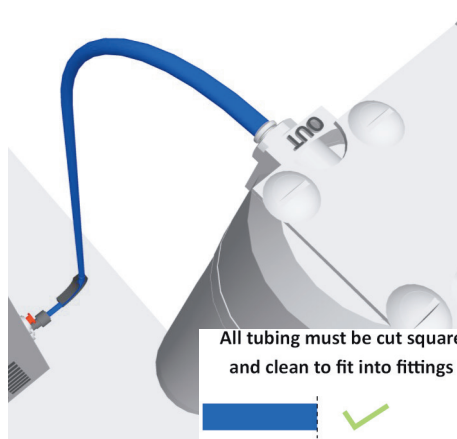
Chiller install

Unit air space clearance requirements



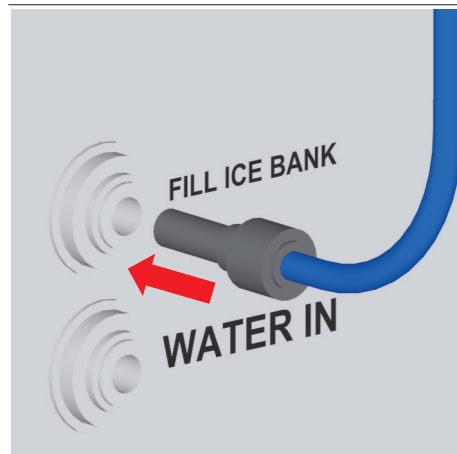
1

Remove ice bank plug from back of unit



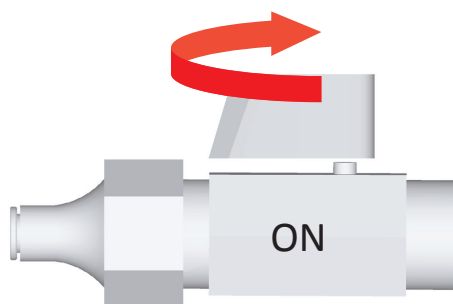
2

Use supply tube from filter to fill ice bank



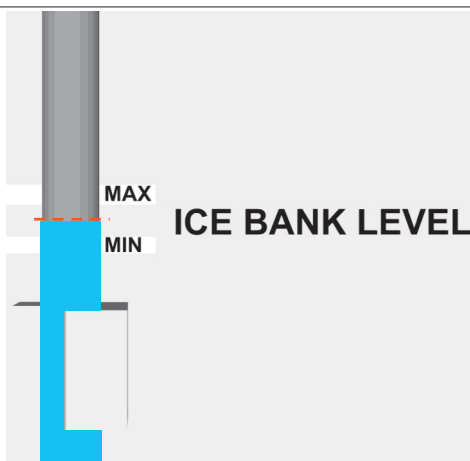
3

Fit tube with 8mm adapter into fill ice bank inlet



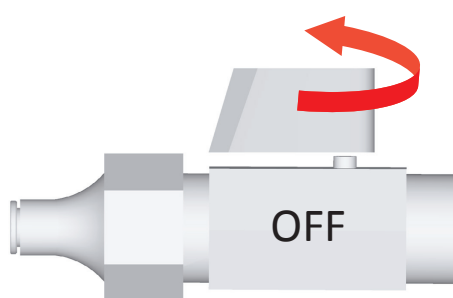
4

Open stop tap partially to provide a slow flow — do not turn on fully



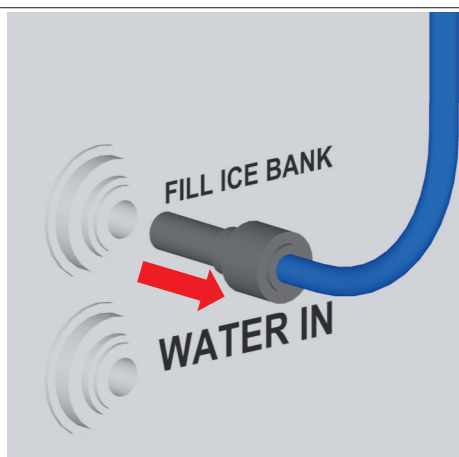
5

Fill ice bank to point shown between min and max level



6

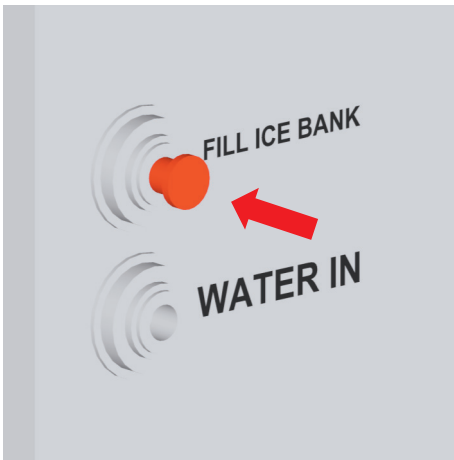
When ice bank is full turn off water supply



7

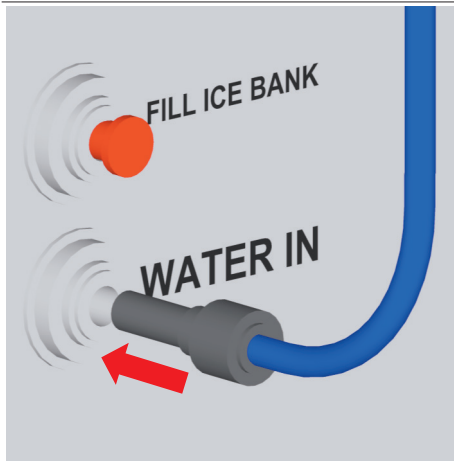
Unplug fitting from ice bank

NOTE: some water will spill out



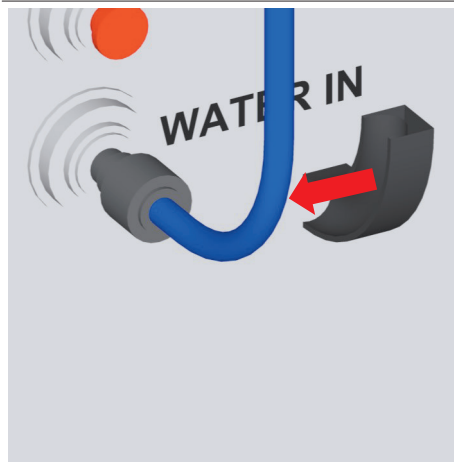
8

Put Red ice bank plug back in to ice bank inlet



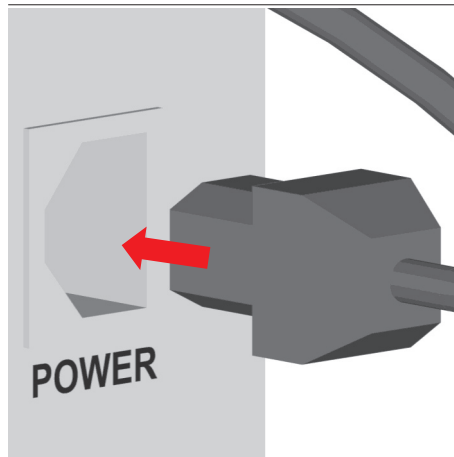
9

Fit water supply fitting into WATER IN



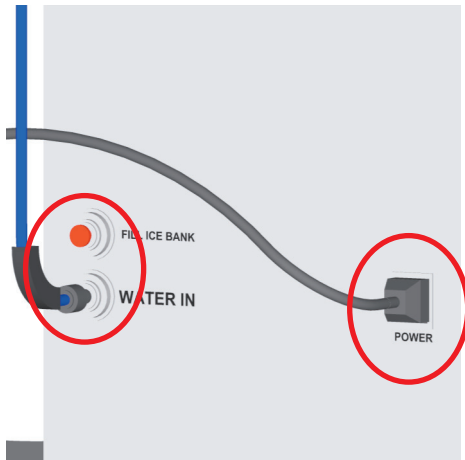
10

Attach flow bend clip to tube as shown



11

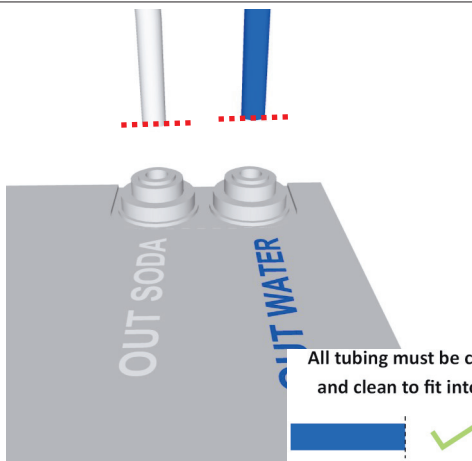
Plug in power cord to back of unit



The back of the unit should look like this.

Check all fittings are in correctly and position chiller in cabinet.

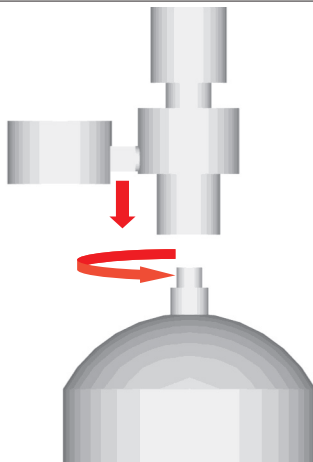
NOTE: top of internal ice bank is not sealed take care when moving unit and dry up any spilled water.



12 The tubes coming from the tap attach to the soda out (white) and water out (blue) trim to length.

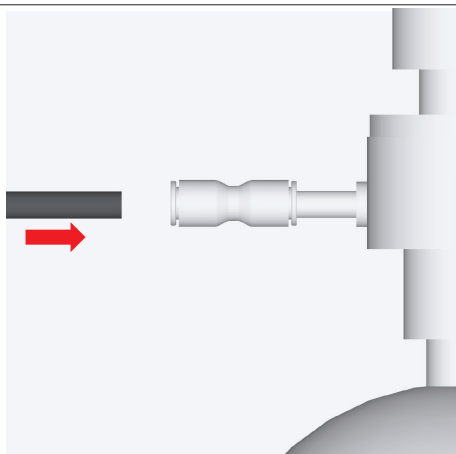
Max distance from tap to chiller is 700mm.

Measure distance and trim tubes 100mm longer



13 Attach CO2 regulator to CO2 bottle and screw up by hand until sealed.

Note: if gas starts coming out of regulator once bottle is sealed turn knob anticlockwise until flow stops.



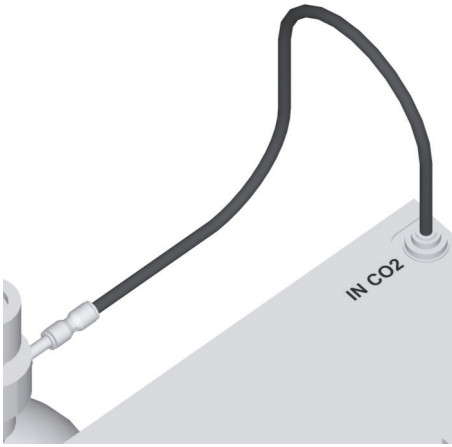
14

Fit 6mm black tube to fitting on CO2 regulator

All tubing must be cut square and clean to fit into fittings

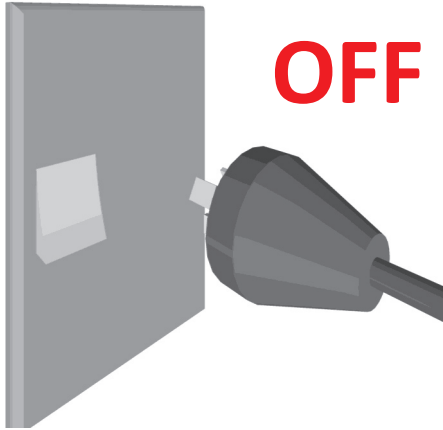


15



Position gas bottle and trim tube to length.
Fit other end of tube to CO2 IN on the Chiller.

OFF 16



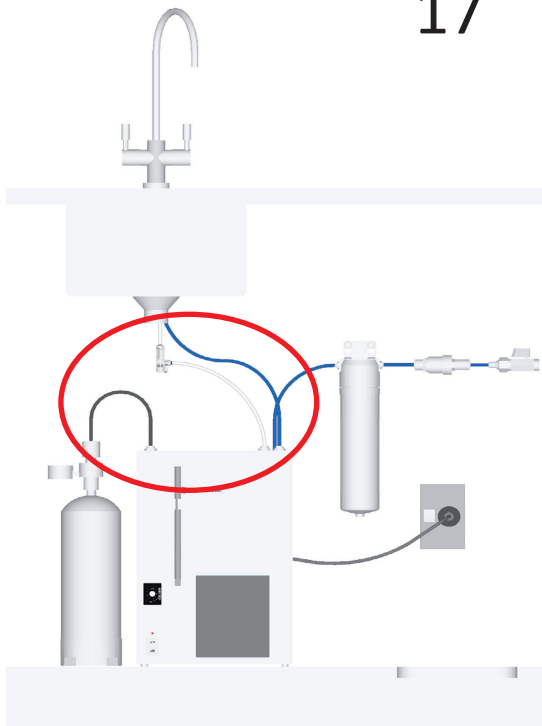
Plug in 3 pin plug to power supply.

Do not turn on yet!

17

Tube length check

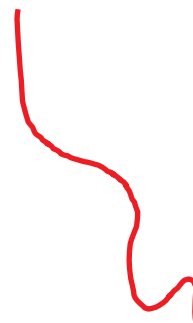
NOTE: make sure tubes are cut to the right length to provide continuous fall but aren't under strain.



Right length ✓



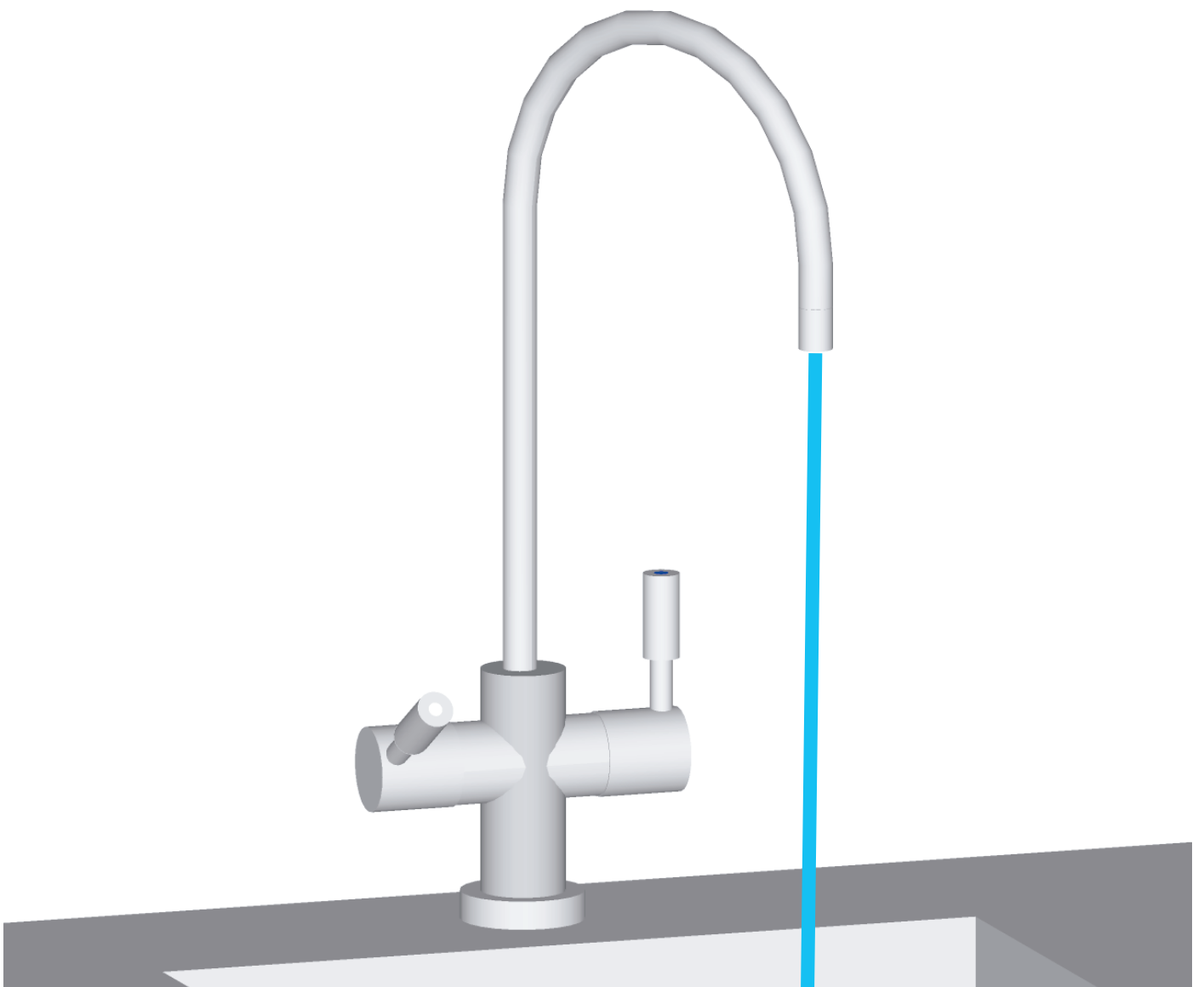
Too long ✗



Too short ✗



Initial setup



Setting up water supply

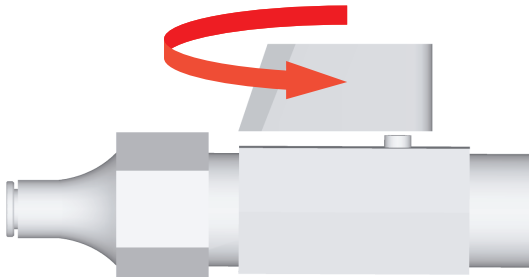
1

Open cold lever
on dispenser



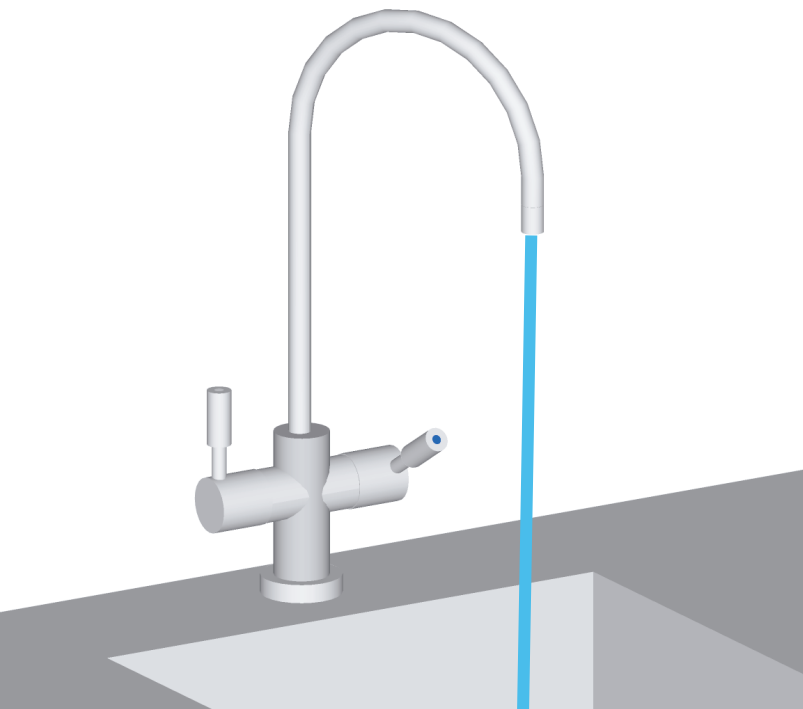
2

Open cold water supply
slowly until fully open



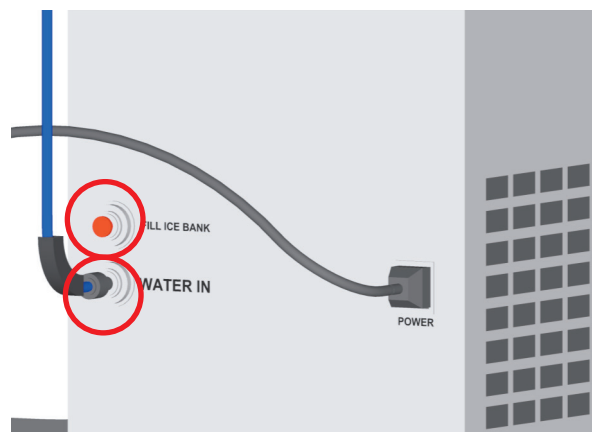
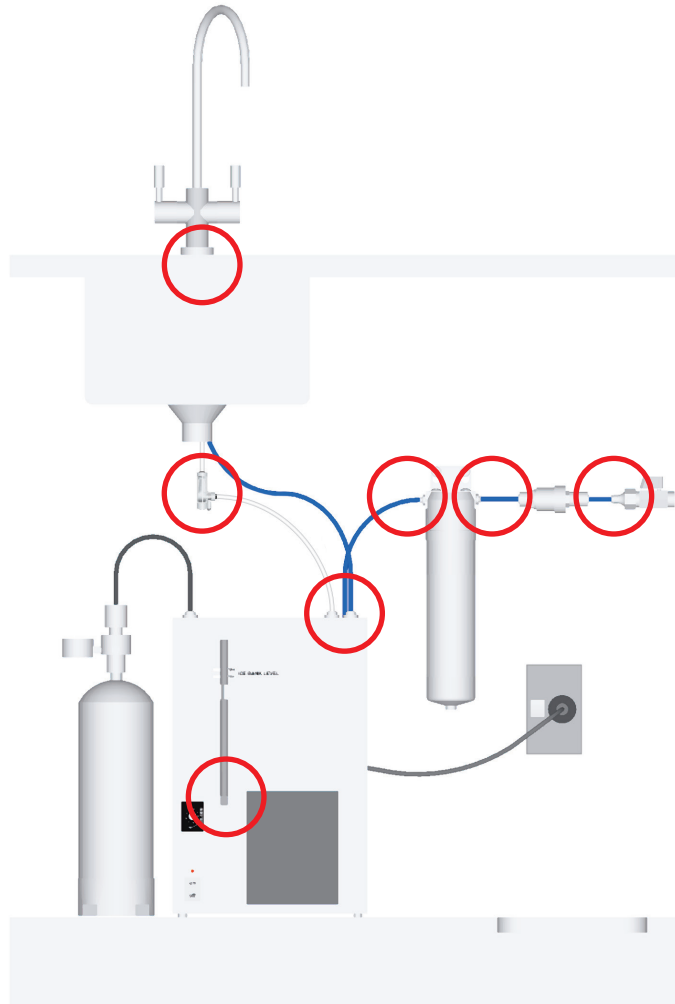
3

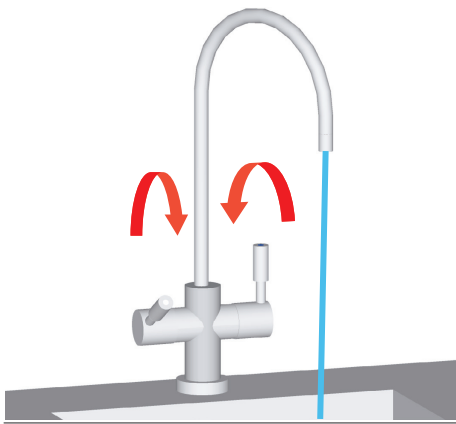
Run cold water for 5 min
to clear any air bubbles
and check for leaks at
points shown on next
page.



Check for water leaks

4

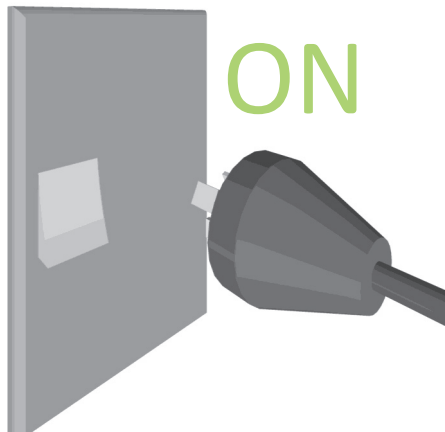




5

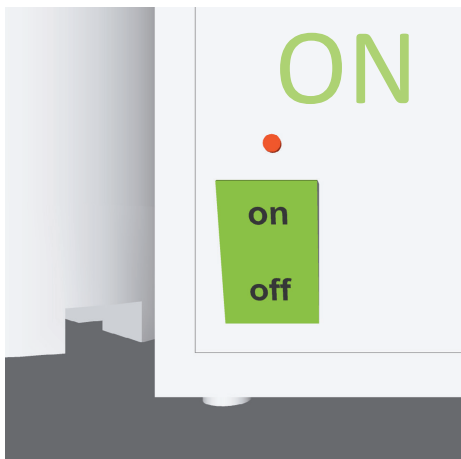
Close off cold water and run sparkling side of tap to fill tank and get rid of any air bubbles run for 5 min then shut it off

NOTE: the water on this side will come out slow until gas is applied.



6

Turn power on at the wall Socket



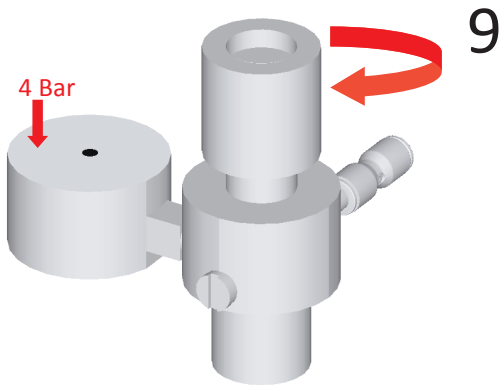
7

Turn power on at the unit. The switch will light up when power is turned on.

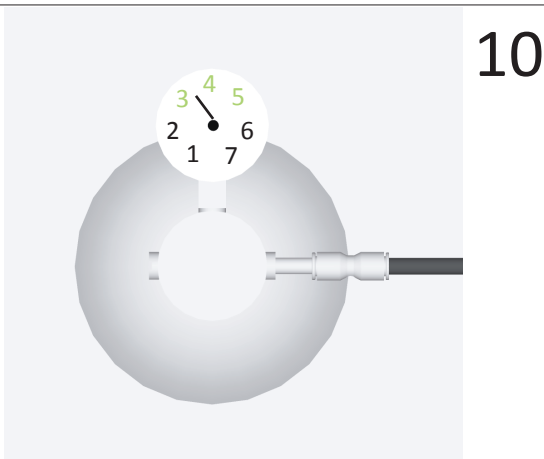


8

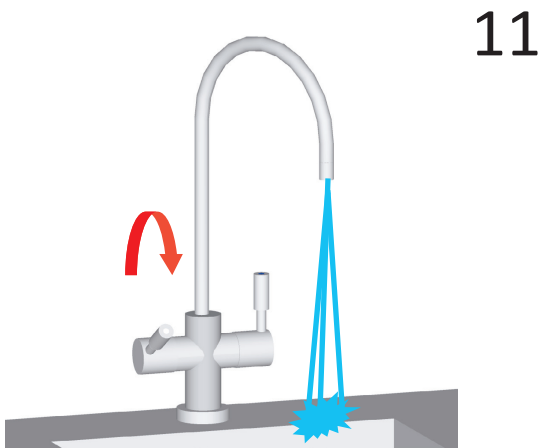
Turn on chiller and rotate chiller temp adjuster using flat bladed screw driver to setting 6



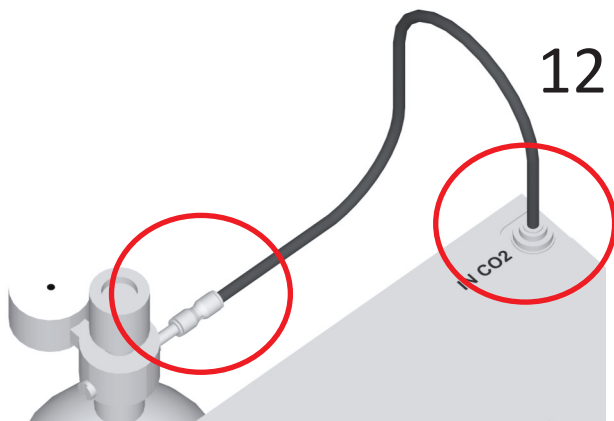
open gas regulator and set to 4 bar



NOTE: CO2 must not exceed 5 bar

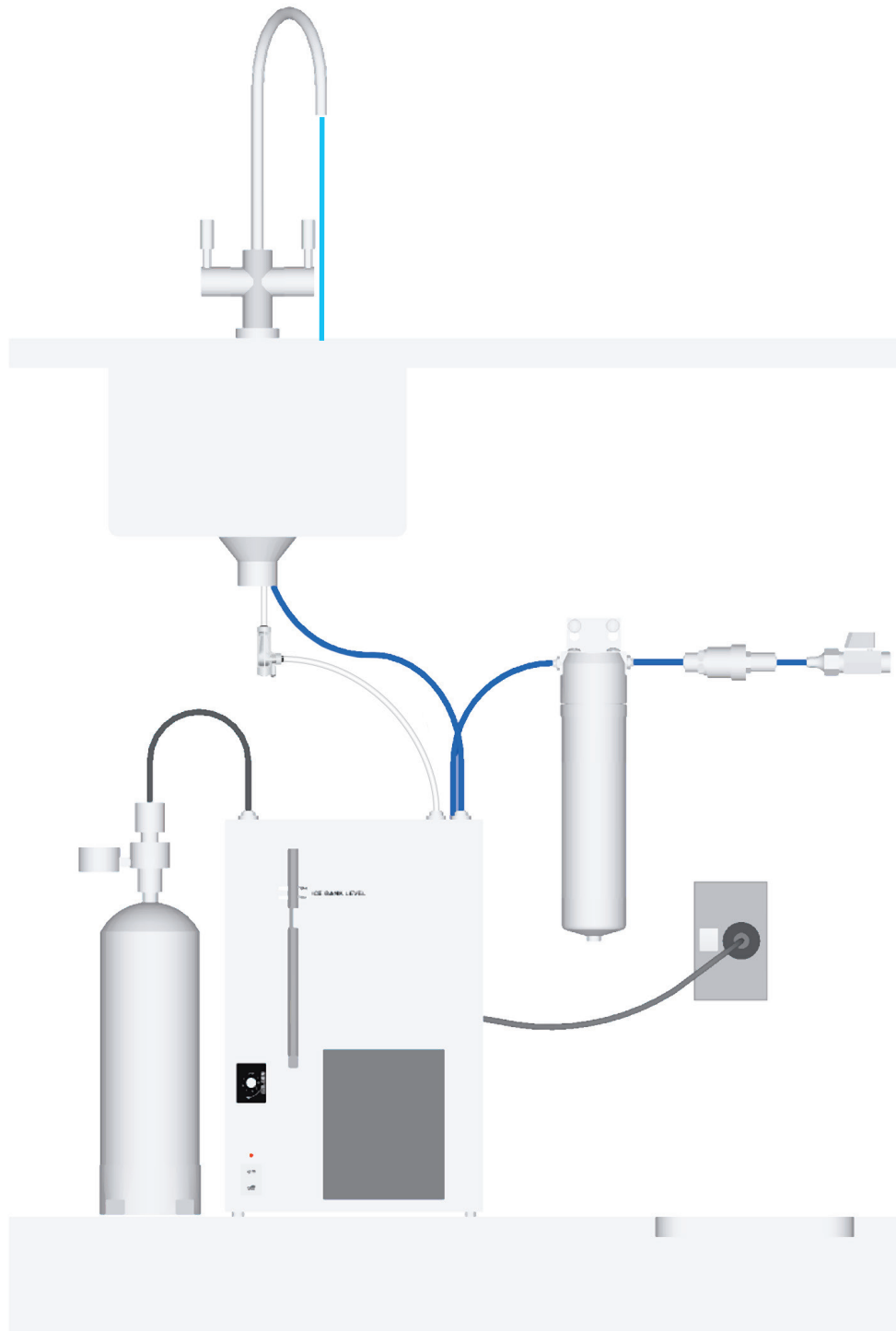


Open soda lever on tap 1/2 way
water will gush out open for 10
seconds. Shut off and the CO2 pump
should start up



Check for gas leaks

Installed unit should look like this.



WARRANTY

PLEASE NOTE: As your Schwan appliance is always full of cold water, we recommend a drained drip tray should be used in those applications where any leakage could cause property damage.

WARRANTY PERIOD: For residential installations, the Warranty period is for two years. For commercial installations, (maximum 8 staff), the Warranty period is for one year.

Please keep all Purchase and Plumber's installation Invoices as verification of Warranty commencement date. The Warranty will be for 24 months (residential) or 12 months (commercial) from date of installation. If you are unable to provide proof of installation date, then the Warranty will be for 25 months (residential) or 13 months (commercial) from date of purchase.

WARRANTY COVERAGE: Schwan provides a comprehensive parts and labour Repair or Replacement Warranty. Repair or Replacement will be at Schwan's discretion, and must be carried out by an authorised Schwan Service Agent. The Warranty covers defects in materials and manufacturing only, and repairs will normally be carried out in your home or commercial premise free of charge during the warranty period.

However, in areas more than 25 km from an authorised Schwan Service Agent, you may be charged for some travel and associated costs.

Alternatively, Schwan may require you to return your unit to Schwan so that Schwan can provide you with a replacement unit free of charge. In this case, Schwan will pay the necessary freight charges, and you will need to take responsibility for the removal of the faulty unit, and installation of the replacement unit.

Any product replaced or repaired under this Warranty will be covered by the remaining portion of the original product's Warranty period, or 6 months, whichever is the greater.

WARRANTY EXCLUSIONS: This Warranty does not cover damage, deterioration, or malfunction resulting from accident, misuse, neglect, abuse, unauthorised modification, fire, water, lightning or other acts of nature, incorrect installation, poor water quality, repair or attempted repair by anyone other than an authorised Schwan Service Agent, or external causes such as electric power fluctuation or failure.

Filter cartridges are not covered by this Warranty, as these are a consumable item, and water conditions and usage vary, which can affect the effective life of the filter.

LEGISLATION: Nothing in this Warranty overrides Schwan's responsibilities under the Consumer Guarantees Act for residential installations. The owner agrees that the Consumer Guarantees Act does not apply to commercial installations.

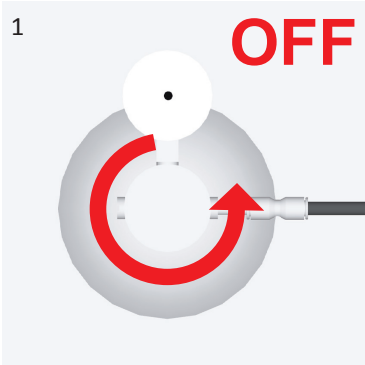
IN THE EVENT OF A MALFUNCTION, PLEASE CONTACT MERQUIP ON 0800 636 0 636 OR EMAIL service@merquip.co.nz

MODEL: SC80

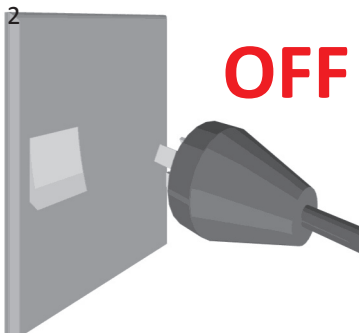
SERIAL NUMBER:

Unit shutdown

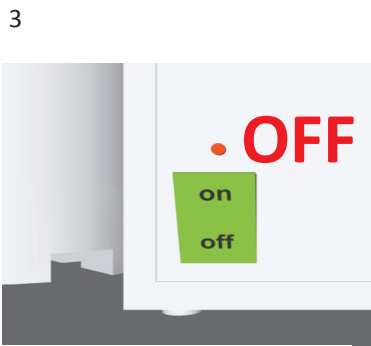
In the case of a technical fault or the unit being unattended for more than 24 hours shut down unit by following these steps



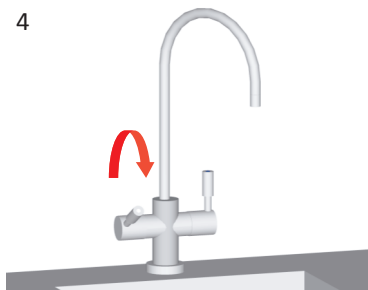
Shut gas off at regulator using control knob, turn off gas by tuning knob anticlockwise until it is at full off position.



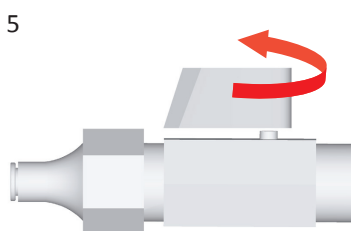
Turn power off at the wall



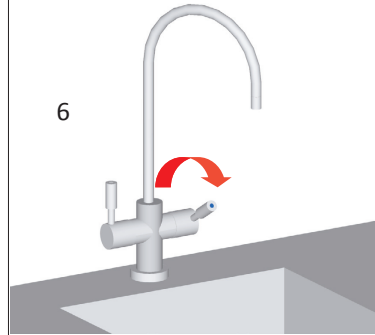
Turn chiller off at switch



Bleed pressure off sparkling at tap for 5 min



Turn off water supply at stop tap



Open cold tap until water stops flowing



Leave sparkling side of tap open

To restart unit follow steps in reverse.

This unit is backed by MERQUIP

MERQUIP

NOTES

Empty rectangular box for notes.

For service call 0800 636 0 636

Or visit www.merquip.co.nz

And book a service

