

Residential Installation Guide

Home CS (913100)

Tap Options:

Dual Levered Slimline Tap



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Warnings and Important Information

- For continued safety of this appliance, it must be installed, operated and maintained in accordance with the manufacturer's instructions.
- Your appliance should be installed by the manufacturer, a service agent, or any other suitably qualified tradesperson.
- For correct operation of this appliance it is essential to observe the instructions as outlined in this booklet.
- Do not use this appliance with water that is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Filter replacement must be performed at intervals of not more than 12 months.
- Use this appliance only as directed in these instructions and only for its designed purpose.
- If the appliance has been turned upside down during transport and handling, wait at least 8 hours before switching appliance on.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or persons with lack of experience and knowledge, unless they are supervised or have been given instruction concerning use by a person responsible for their safety.
- This appliance is not to be installed in an area where a water jet could be used.
- Children should be supervised to ensure that they do not play with the appliance.
- **WARNING:** Do not connect any restrictor, pressure relief device or non-return valve to the vent pipe of this appliance.
- **WARNING:** When positioning the appliance ensure the power supply cord is not trapped or damaged.
- **WARNING:** Do not install the appliance using a power board, double power adaptor or any other similar device. The appliance is to be plugged directly into a suitably protected and rated power point.
- **WARNING:** If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons. The appliance is not to be used until the power supply cord is repaired.
- **WARNING:** Avoid spillages of any kind on all electrical connectors.
- **WARNING:** Potential injury can result from misuse.
- Only Billi hose and tube kits as supplied with the appliance are to be used. Old or other manufacturer's hose and tube kits should not be used.
- **WARNING:** Installation shall conform to the plumbing code of Australia (PCA) or relevant local requirements.
- If the appliance is installed in a location where the ambient air temperature could fall below 4°C, do not turn off power to the appliance to prevent malfunction. This safeguard does not offer protection to connecting pipework and fittings external to the appliance.
- The appliance is designed to operate in an ambient air temperature range of 5°C to 30°C.
- Turn off power to the appliance by unplugging the power cord from the connected power point. Only do so after the inlet water supply has been turned off.
- The appliance is intended to be used in commercial and similar applications such as: Staff kitchen areas in shops, offices, and other working environments.
 - By clients in hotels, motels, and other residential type environments.
 - Bed and breakfast type environments.
 - Catering and similar non-retail applications.
- **Please note maximum inlet water pressure is 1000kPa.**

Installation Requirements

IMPORTANT: This Billi appliance is to be installed by a licensed trades person in accordance with AS/NZS 3500.1 and AS/NZ 3500.2 and in compliance with applicable state regulatory requirements. For correct operation of this appliance, it is essential to observe the manufacturer's instructions.

The Billi system is recommended to be installed on a safe tray in accordance with AS 3500.4 Clause.

Unpacking your Billi Alpine Sparking Unit Before commencing installation, carefully check for any damage to outer carton, inner liner, appliance metalwork, pipework fittings and electrical power cord. If damage is found, please photograph and record details for use if a claim is to be made.

Warnings relating to this appliance must be read before commencing installation. Refer to page 2.

When unpacking your appliance, ensure you have identified the following components

1. Chilled water module
2. Filter module (including filter)
3. CO2 cylinder
4. CO2 regulator
5. Dispenser - Slimline dual lever with tubing and flow controllers fitted.
6. User guide
7. Warranty registration card
8. Warning label
9. Installation kit including:
 - a. Pressure limiting valve
 - b. 1 x ½-6mm fitting
 - c. 5 x 6mm stem elbow
 - d. 3 x 6mm tube - Black
 - e. 1 x 6mm tube - Clear
 - f. Plastic Ø6mm tube cap
 - g. 2 x Screws
10. Vent kit including:
 - a. Cupboard base vent grill
 - b. 2 x cupboard door spacer pads
 - c. Vent installation instructions
 - d. 4 x screws

Determine Unit Location

Plan the installation carefully, taking into consideration dispenser tube lengths, position of power and water outlets, ventilation airspace requirements and access for service. Refer to diagrams 1, 2, and 3. Diagram 4 shows mini-mum clearances required around the units for ventilation.

Power Requirements

A single 10 amp GPO is required installed in an accessible position. Refer to Diagram 1. Power circuits must be fitted with an earth leakage protection device (RCD). Chilled water module is supplied with a 1 meter flex cord and plug.

Water Supply

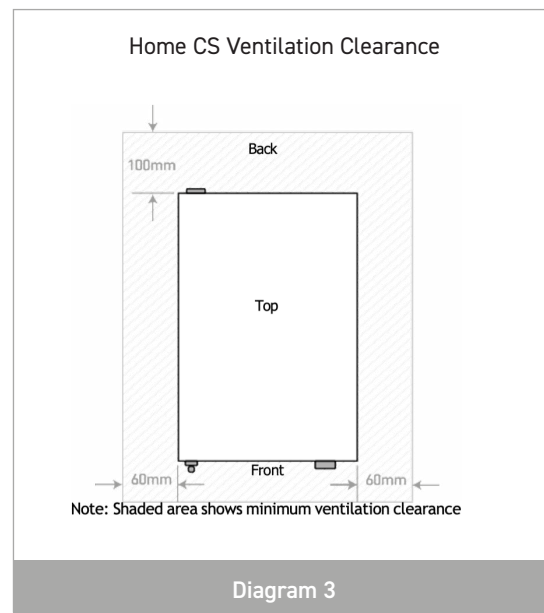
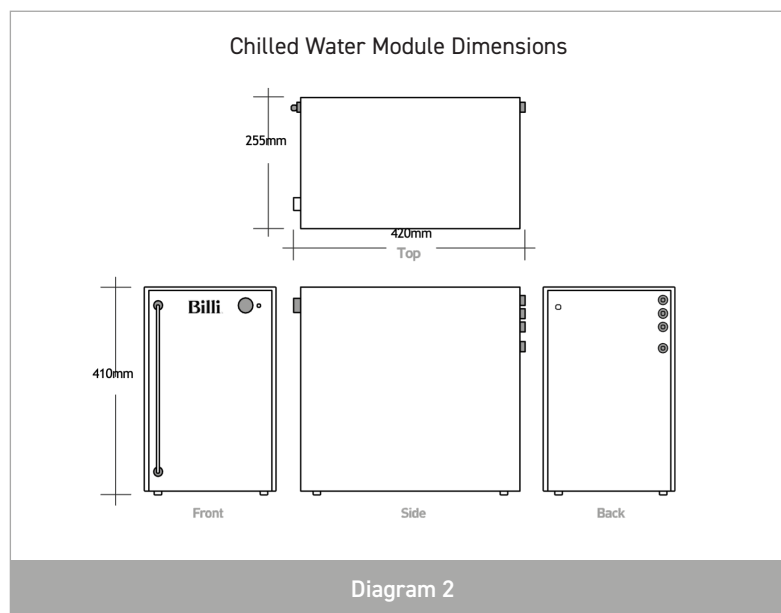
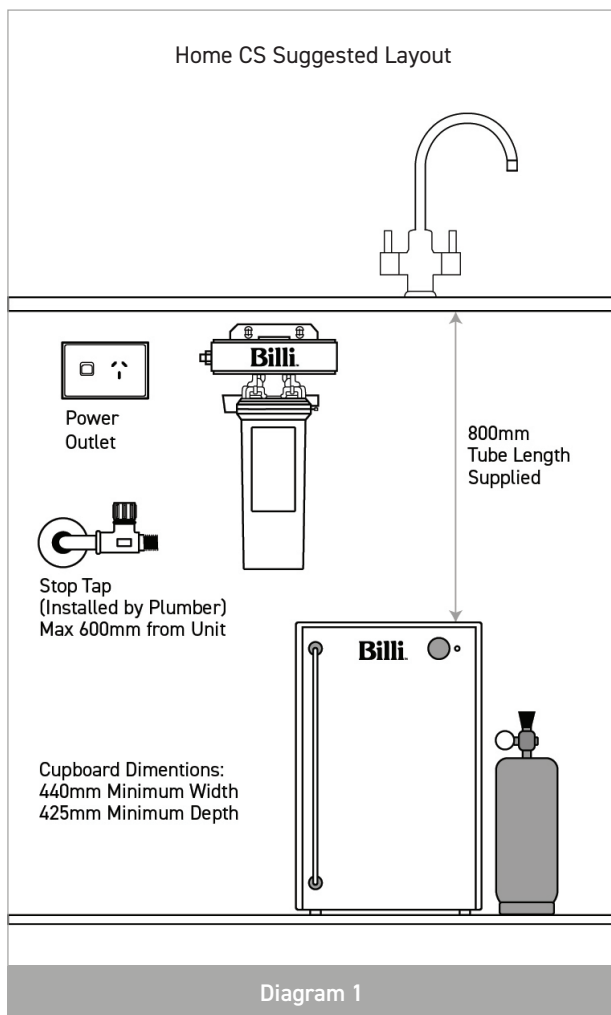
A single cold water supply point with a ½" BSP stop tap is required. Stop tap is to be installed in an easily accessible position, within 600 mm of the inlet to the boiling water module. Dynamic supply pressure: Min. 250 kPa, Max, 500 kPa Supply temp: Min. 5°C, max. 30°C

Do not install with water that is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

Installation Requirements cont.

Ventilation Grilles

A ventilation kit including lower cupboard vent grille and 5mm door spacers is supplied with each Billi Sparkling/Chilled water unit. Separate installation instructions are provided within the vent kit packaging. For lower usage, domestic installations, sufficient ventilation may be provided by natural air movement through the cupboard airspace. Minimum area of lower and upper air vent openings is 100 cm².



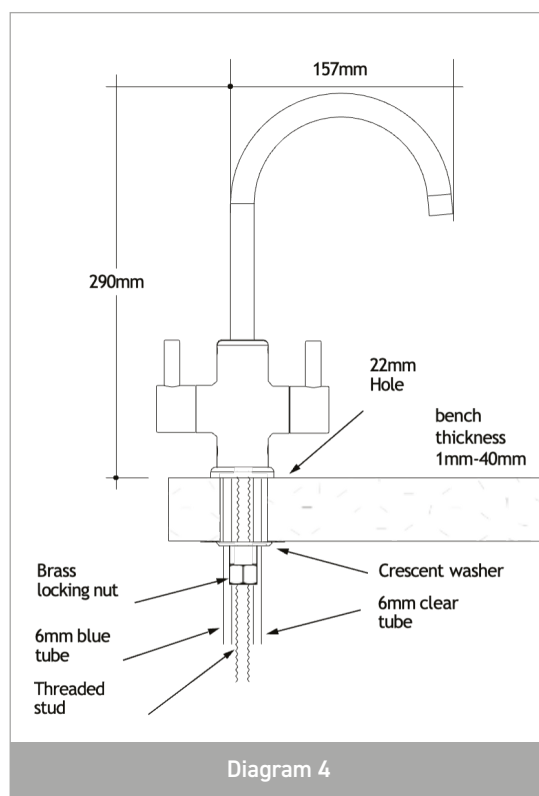
Installing the Dispenser

Install Dispenser Assembly

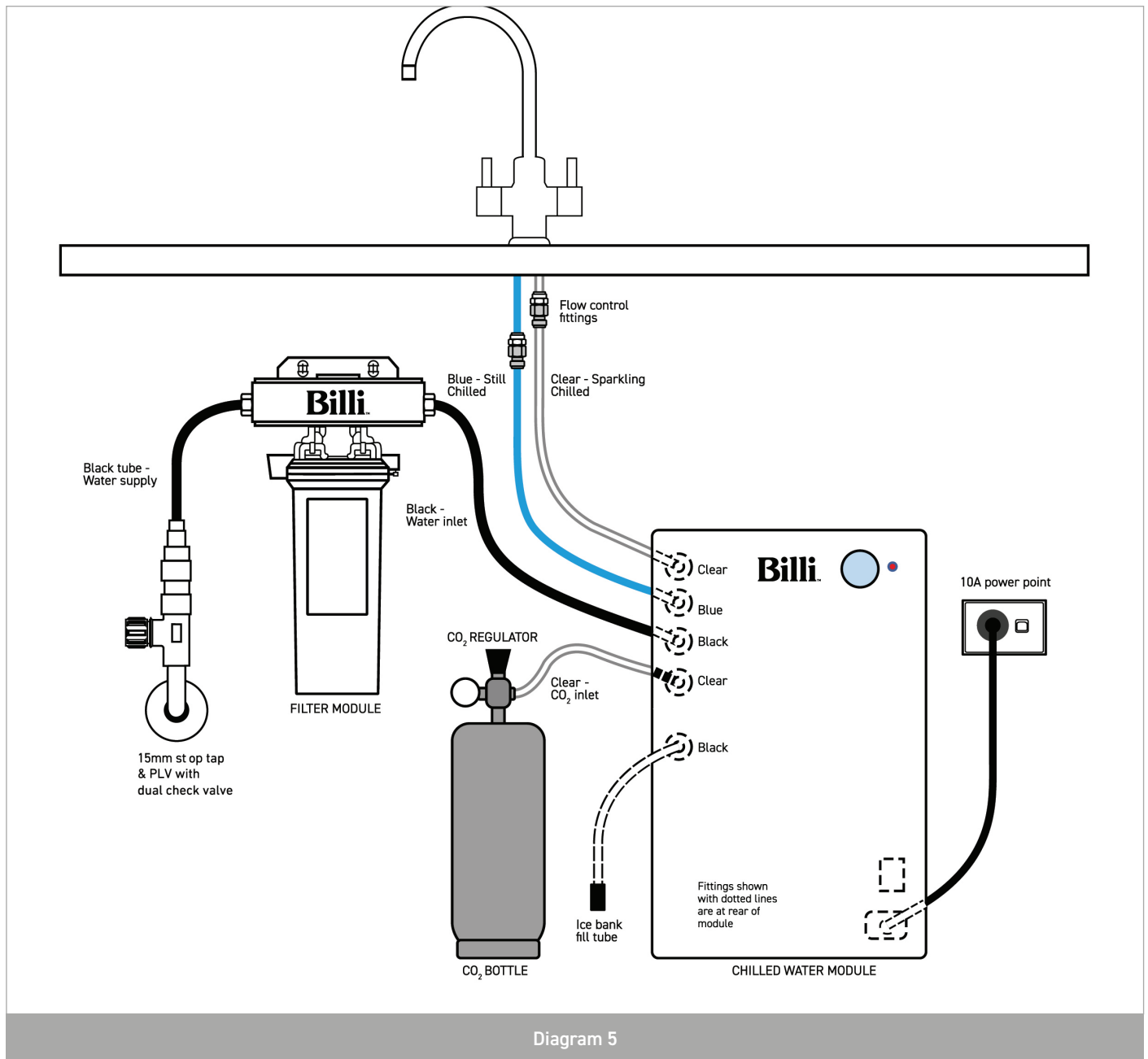
Determine position of dispenser mounting hole in sinktop or benchtop. Refer to Diagram 4 for clearances allowed and correct assembly. Hole size required is $\varnothing 22\text{mm}$.

Maximum benchtop thickness is 54mm.

1. Screw the threaded stud into base of dispenser
2. Slide chrome mount base over tubes and up to the bottom of the dispenser. Ensure rubber sealing ring is at the bottom.
3. Feed dispenser tubing through the mounting hole.
4. Fit the crescent shaped washer onto the threaded shaft.
5. Fit retaining nut and hand tighten.
6. Check dispenser tubing is not pinched and dispenser is correctly orientated.
7. Tighten retaining nut



Installation Schematic



If a female connection to the PLV is required, first remove the male fitting. Then insert the mesh strainer (provided in the kit) into the PLV.

Note: Failure to install the mesh strainer may void the warranty

Installing Underbench Module

Install Pressure limiting valve

- Screw certified pressure limiting valve (PLV) incorporating dual check valve for back flow prevention, onto water supply tap using thread sealant and PTFE plumbers tape
- Fit ¼-6mm fitting to outlet of PLV

Flush Water Supply

Flush water supply pipework before installing the underbench unit by running water from supply tap into a bucket. NOTE: Blockages/ unit malfunction caused by debris are not covered by warranty.

Clearances for ventilation and service

Take care to observe minimum clearances.

Refer to Diagram 1 and 3. Ensure there is adequate clearance for ventilation and service access to the units taking into consideration the tube lengths and space available.

Tubing

Tube connections are made using push-fit connectors. Trim tubes to correct length. Tubes should be cleanly cut square using a sharp knife or plastic tube cutter. Ensure that tube ends are round and not flattened or kinked, then push into connectors firmly until properly seated. (To release, press the collet ring in while gently pulling on the tube). Minimizing the tube lengths will improve the performance of the chilled and sparkling water.

Install Filter Module

Filter module must be mounted upright on either the side or the rear of the cabinet. Ensure there is sufficient clearance for changing the filter cartridge. Filter module is fixed using 2 x 6g screws supplied.

Install Chilled Water Module

Position chiller module in cupboard area observing ventilation clearance requirements.

Assemble CO₂ bottle and pressure regulator

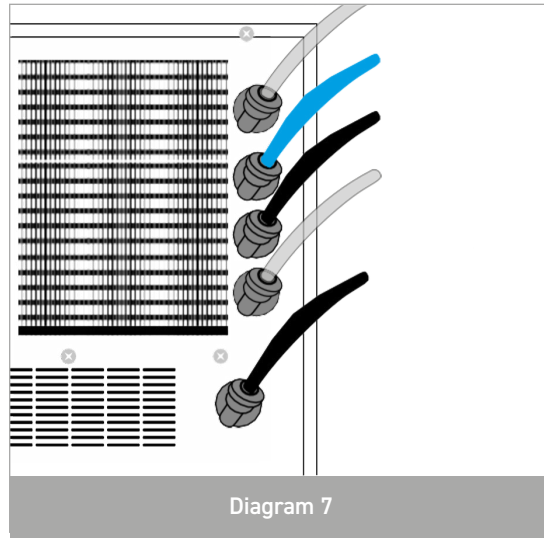
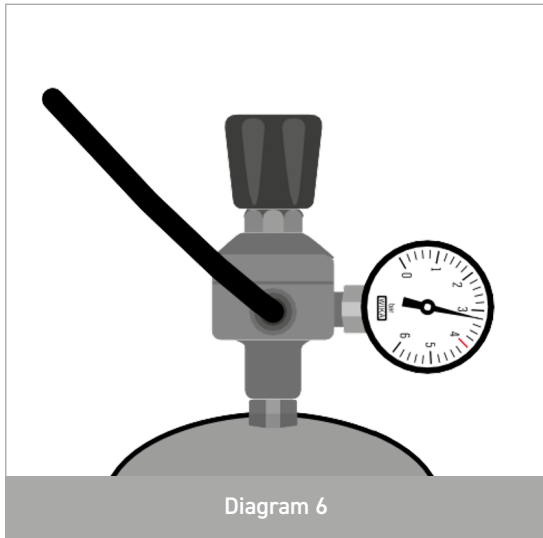
- Remove CO₂ bottle from packaging box. Remove plastic cap from threaded outlet of bottle.
- Remove CO₂ pressure regulator from packaging and check pressure control knob is turned fully anticlockwise.
- Holding the CO₂ bottle upright, screw the pressure regulator onto outlet. A small amount of CO₂ gas will escape until regulator has been tightened.
- Decide location of CO₂ bottle in cupboard space.

Connect tubing

- Trim dispenser clear and blue tubes to correct length by holding tubes against outlet fittings at rear of chiller and marking cutting point.
- Fit 6mm stem elbows to ends of both clear and blue tubes.
- Tube elbow stems are inserted into bulkhead fittings at rear of chiller. Refer to diagram 5 and 7 for correct tube order and colour coding.
- Fit 6mm stem elbows to 2 x black and 1 x clear tube found in installation kit.
- Insert tube elbow stems into rear bulkhead fittings. Refer to diagram 5 and 7 for correct tube order and colour coding. Tip. It is easiest to fit these 3 tubes to chiller before unit is installed.
- Connect black water inlet tube to filter module OUTLET fitting.
- Fit clear 6 mm tube to compression fitting on CO₂ bottle regulator. Unscrew compression nut and slide tube over tapered fitting shank. Finger tighten compression nut. Refer to diagram 6.

NOTE: At this stage, do not connect black feed tube between the Water supply PLV and filter module. This will be connected once ice bank has been filled. Instead, connect the black ice bank fill tube to the water supply PLV outlet fitting. Refer to Diagram 5.

Installing Underbench Module Cont.



Commissioning

Fill Chiller Module ice bank

- Fit black ice bank fill tube from chiller into water supply PLV fitting. Refer to Diagram 5
- Turn on water supply tap slightly. After about 15 seconds, water will show in the bottom of the sight glass tube. Watch this level rise as water is fed in.
- Turn water tap off when water level reaches the minimum fill marker. Refer to Diagram 8. If tank is overfilled, disconnect sight glass elbow fitting from top bulkhead fitting and swing tube downwards and drain required amount of water. Water level in this tank will rise a little later as an ice bank forms.
- Disconnect 6 mm black fill tube from PLV outlet fitting. Fit black plastic cap supplied in installation kit onto end of tube. Tuck black tube behind modules for later use.
- Connect remaining black 6 mm tube from water supply PLV to INLET fitting of filter module.

Turn on Water Supply

Ensure filter is securely locked back into place. Turn on water supply tap and ensure that there are no leaks.

Turn on Power Supply

Plug chiller module power lead into power point and switch on. Ensure chiller power switch located at the rear of unit is ON. Sparkling units will begin filling automatically. See Diagram 9.

Turn on CO₂

- CO₂ supply is turned on by tightening the pressure adjusting knob clockwise. Set the initial pressure to around 4 Bar.
- Check CO₂ pipework and fittings for leakage using soapy water bubble test.

Chiller set up

- Ensure Chiller power lead is plugged into power point and turned on
- Ensure chiller module power switch located at rear of module is turned on.
- Press left chilled water lever on dispenser and let the water run for approximately 1 minute to condition filter.
- Press right sparkling water lever and run for approximately 20 seconds.
- Check all fitting connections for leakage.

Purging air from the CO₂ system

Air trapped in the soda tank is detrimental to the production of sparkling water and full carbonation may not be reached until 2-3 days of use. To speed this process, it is beneficial to purge the tank with CO₂ using the following procedure:

- Press RH tap levers and allow soda water to flow.
- Continue to run the tap until the tank is empty and gas flows from the outlet. Soda water feed pump will continue to run.
- Release tap lever. Wait until soda water pump stops. Some CO₂ gas may be released from internal relief valve as soda tank refills.
- Press each lever in turn and check that water flows.

Set Chilled Water Temperature

Set the desired water temperature using temperature control knob. Refer to Billi Alpine Sparking User Guide. Chiller refrigeration system will run continuously for approximately 2 – 3 hours as ice is formed in the ice bank. As a significant amount of heat is dispelled during this time, it is advisable to leave a cupboard door ajar during the initial cool down. As ice expands, the water level in the ice bank tank will rise slightly. Check water level is within operating range on sight glass level markings. Water level can be reduced if necessary. See Diagram 8.

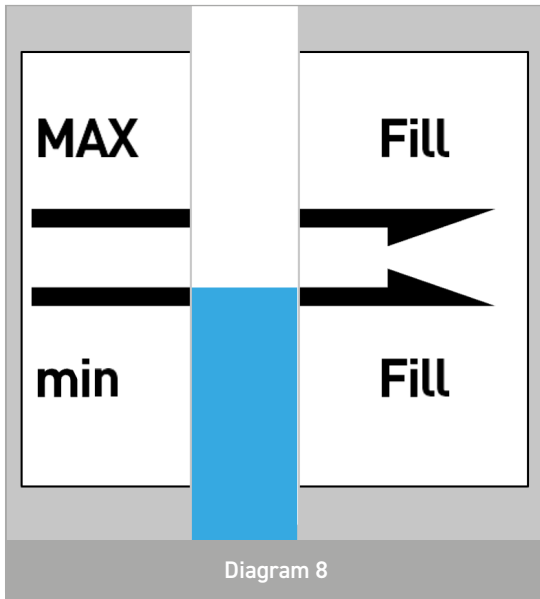
Adjusting carbonation level

It is advisable to wait for cold water temperature to stabilize and air to be purged from the sparkling water unit before adjusting the carbonation level. Initial set point may vary once the unit is running. A pressure between 3 and 4 Bar will typically provide the right level of carbonization.

WARNING: Do not set the pressure to exceed 5 Bar

Re-check connections for leaks. Explain operation to user.

Commissioning Cont.



Installation and Commission Checklist

- ☐ Filter packing foam removed from under filter cartridge.
- ☐ All other packaging films and labels removed.
- ☐ Dispenser mounted securely.
- ☐ Tubing cut to correct lengths and not twisted or kinked.
- ☐ Tubing secured correctly.
- ☐ Unit connected to COLD water supply.
- ☐ Water main flushed before connection to unit.
- ☐ Correct air clearances around unit.
- ☐ Power circuit fitted with an RCD – earth leakage protection device.
- ☐ Sawdust cleaned out of cupboard area.
- ☐ Door vents and spacer pads fitted correctly.
- ☐ Unit cooling (after initial fill).
- ☐ Chilled and sparkling water flow correct.

Billi Home CS

Thank you for choosing to install a Billi Home CS Drinking Water Appliance. Your Home CS is manufactured to exacting standards using high quality materials and with proper maintenance and care, should function for many years.

For all service & support requirements, please scan the QR code at bottom of page.

For information on our filtration and service contract please contact:

Billi Head Office on **1800 812 321**

E-mail us at **service@billi.com.au**.

For technical support please call: **1800 812 321** and speak to one of Billi's experienced technician's.

To book a service call out request a filter change or please contact:

Billi Service Centre on 1800 812 321

Or

book online at **www.billi.com.au**

Filter cartridges are also available for purchase online at **www.billi.com.au**



Please scan the
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