









# Installing underbench module. XL

## 1. Flush Water Supply

Flush water supply pipework before installing the underbench unit by connecting 600mm flexible braided hose to the supply tap and running water into a bucket. NOTE: Blockages/unit malfunction caused by debris are not covered by warranty.

## 2. Install Underbench Unit

Take care to observe minimum clearances. Refer to Diagram 1 and Diagram 4. Ensure there is adequate clearance for ventilation and service access to the units, considering the tube lengths and space available.

## 3. Connect Dispenser Tubing and Plug

**IMPORTANT:** Boiling outlet (red), vent tube (grey) must not be kinked and must be installed with a continual fall and no sag.

Connect all tubing and electrical plug as shown in Diagrams 10 and 11.

- Trim silicon tubes to correct lengths using a sharp knife or plastic tube cutter. Avoid leaving excess tubing which will sag and trap water. Fit spring clamps to tubing prior to connecting.
- Red silicone tube pushes on to boiling module fitting labelled BOILING (RED). Secure with spring clamp supplied.
- Grey silicone tube pushes on to boiling module fitting labelled VENT (GREY). Secure with spring clamp supplied.
- Dispenser electrical cable Mini-Din connector plugs into boiling unit socket.
- 6mm PE tube connections are made using push-fit connectors. There are 3 x Ø6mm tubes supplied loose in your installation kit; 2 x black, and 1 x natural (clear). Each tube has an elbow fitting attached to one end. An additional 6mm elbow is supplied which is to be fitted to the blue dispenser tube once tube has been trimmed to correct length.
- Tube elbows are inserted into fittings at rear of chiller. Refer to diagram 10 and 11 for correct tube orientation and colour coding.  
Tip. It is easiest to fit these tubes to chiller before unit is installed. Before inserting tubing into push-fit connectors, ensure that tube ends are cleanly cut and not flattened or kinked. Tube is pushed firmly into connector until properly seated. (To release, press the retaining collet ring inwards while pulling gently on the tube).
- Connect power lead with 6-way mini din plug from boiling module to socket located at rear RHS of the sparkling water module -refer to diagram 12. Rear mounted plug guide bracket helps to locate socket position and orientate plug correctly.

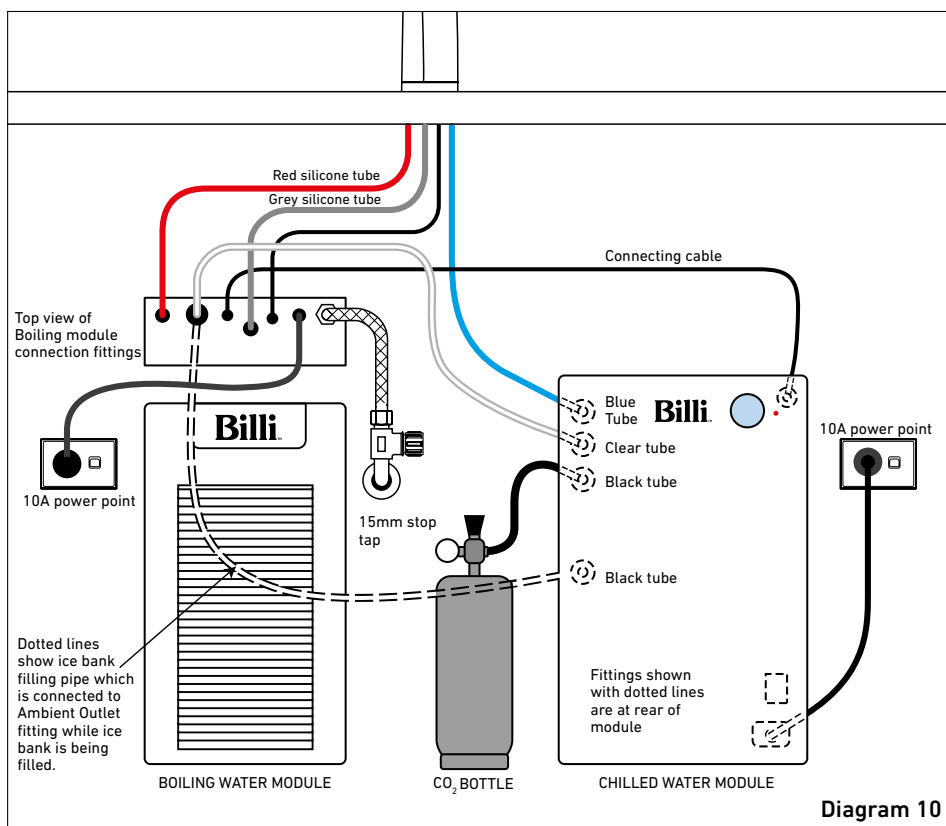


Diagram 10

NOTE: At this stage, do not connect CLEAR feed tube between boiling and chilled water modules. This will be connected once ice bank had been filled. Instead, connect the BLACK tube to the ambient water fitting on the boiling module. Refer to diagram 10.

## 4. Connect CO<sub>2</sub> bottle and pressure regulator

- Remove CO<sub>2</sub> bottle from packaging box. Remove plastic cap from threaded outlet of bottle.
- Remove CO<sub>2</sub> pressure regulator from packaging and check pressure control knob is turned fully anticlockwise.
- Holding the CO<sub>2</sub> bottle upright, screw the pressure regulator onto outlet. A small amount of CO<sub>2</sub> gas will escape until regulator has been tightened.
- Decide location of CO<sub>2</sub> bottle in cupboard space.
- Black Ø6 mm tube from chiller module connects to outlet of gas regulator. Trim tube to correct length, push into fitting and tighten retaining nut. Refer to Diagram 10 & 13.

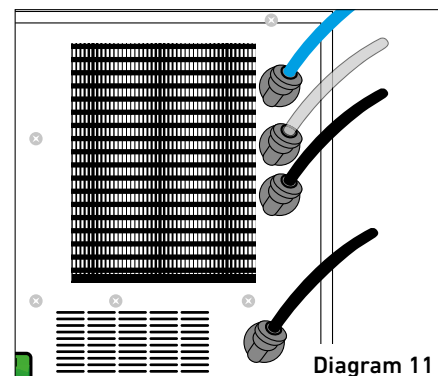


Diagram 11

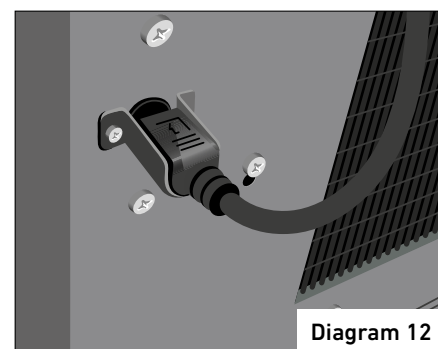


Diagram 12

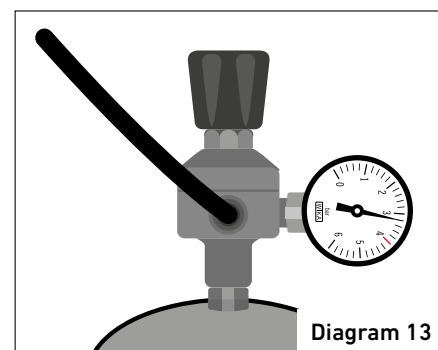


Diagram 13

# Commissioning XL

## Turn on Water Supply

Remove boiling module front panel. Remove foam packing piece from under filter canister. Ensure filter is securely locked back into place. Turn on water supply tap and ensure that there are no leaks.

## Turn on power to boiling and chilled modules

Plug both boiling module power lead and chiller module power lead into power points and switch on. Ensure chiller power switch located at the rear of unit is ON (Diagram 14). Boiling and Sparkling units will begin filling automatically.

## Fill Sparkling Chiller Module ice bank

- Fit black ice bank fill tube from chiller into 'AMBIENT OUTLET' fitting on Boiling Module. Refer to Diagram 10.
- Lift cold water lever on dispenser tap. After about 15 seconds, water will show in the bottom of the sight glass tube. Watch this level rise as water is fed in. Note: If ambient water flow stops before ice bank is full, release cold lever and lift again. If FILL FAULT light shows, turn power switch at rear of chiller off and on.
- Release cold lever when water level reaches the minimum fill marker. Refer to Diagram 15. 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 Ø6 mm black fill tube from boiling module ambient water outlet fitting. Fit cap supplied in installation kit onto end of tube. Tuck black tube behind modules for later use.
- Connect clear Ø6 mm tube from chiller module to the boiling module fitting labeled 'AMBIENT OUTLET'.

## Boiling water temperature calibration

Boiling water module will begin to heat after water level in the tank reaches the lower level sensor. The unit will also automatically begin a temperature calibration cycle. During the calibration cycle, hot water temperature continues to rise until it begins to boil. Once water is boiling, the temperature does not rise any further as all electrical energy is converted to steam. The unit will continue to boil for up to 30 seconds while the temperature sensor calibrates.

**WARNING: Steam and small amount of hot water may be discharged from the taps and vent during this period. While calibration cycle is operating, the hot water indicator (red) will double blink rapidly.**

Once calibration cycle is completed, the unit will resume normal operations and the calibration data is saved.

**IMPORTANT: Do not turn power off to boiling water unit until calibration cycle has finished.**

## 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.
- Lift chilled lever on dispenser and let the water run until it stops automatically. (60s)
- Return the chilled lever to the center position.
- Lift both levers up together and hold for about 20 seconds. Water should run from the dispenser.
- Release the levers and check for leaks

## Set up CO<sub>2</sub> system

- Screw CO<sub>2</sub> cylinder into CO<sub>2</sub> regulator and hand tighten. Some gas may escape during this process.
- Open the CO<sub>2</sub> regulator by turning the black knob clockwise (diagram 12)
- Set the initial pressure to around 4 Bar.
- Press both tap levers and dispense water and ensure the gas pressure stabilizes. NOTE: Water carbonation levels will continue to increase until water in the soda canister has become chilled and air has been dispelled.

## Purging air from the CO<sub>2</sub> 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 CO<sub>2</sub> using the following procedure:

- Lift both 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 levers. Wait until soda water pump stops. Press both tap levers together and check that water flows.
- Press cold lever only and check that water flows.

## Set Chilled Water Temperature

Set the desired water temperature using temperature control knob. Refer to Billi B-5000 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 15.

NOTE: To drain water from ice tank, disconnect upper sight-glass fitting, swing tube downwards and drain water into a cup or container.

## 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. You may need to adjust the pressure once the system has stabilized. A pressure between 3 and 4 Bar will typically provide the right level of carbonization.

**WARNING: CO<sub>2</sub> pressure must not exceed 5 bar**

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

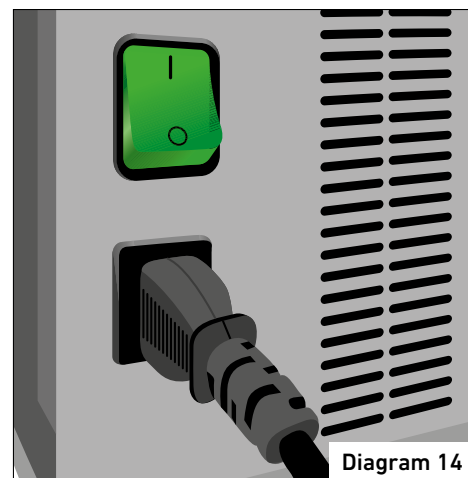


Diagram 14

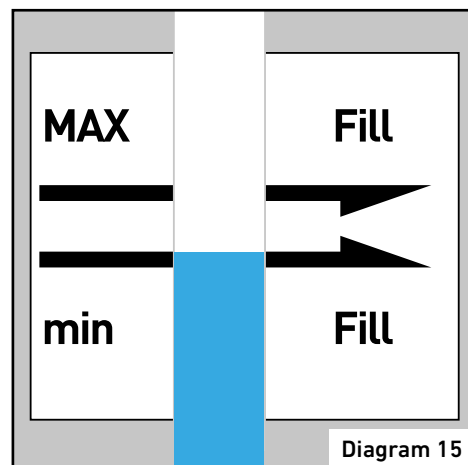


Diagram 15

# Commissioning Checklist

## WARNINGS.

### CHECK EACH OF THE FOLLOWING ITEMS:

- Filter packing foam removed from under filter cannister.
- Dispenser mounted securely – M4 chrome retaining screw fitted.
- Dispenser swivels 45° in each direction (if activated) - locking piece is removed.
- Tubing is cut to correct lengths and not kinked or sagging. Red and grey silicone tubes have a continual fall.
- Tubing secured correctly – nuts and spring clips fitted.
- Water main flushed before connection to unit.
- Unit connected to COLD water supply.
- 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
- Initial program settings correctly set for dispenser tube length.
- Unit heating and cooling (after initial fill). Red and blue dispenser icons flashing (or on continually when reached correct temperature).
- Boiling and chilled water flow correct.

If any difficulties arise contact  
**Billi Australia Pty Ltd:** Phone 1800 812 321  
(Free call). Validate your warranty online at  
[www.billi.com.au](http://www.billi.com.au)

For information on our filtration  
and service contracts please contact  
Billi Customer Service on 1800 812 321  
or [service@billi.com.au](mailto:service@billi.com.au).



Scan the QR Code to access the Support page  
and Shop online.

For continued safety of this appliance it must be installed, operated and maintained in accordance with the manufacturer's instructions. For correct operation of this appliance, it is essential to observe the instructions as outlined in this booklet.

- Your appliance should be installed by a 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 relevant Billi User Guide and only for its designed purpose.
- Do not install unit if power cord is damaged.
- 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.
- Always activate boiling water safety lock switch where children or mentally disabled persons could access the appliance.
- This appliance is designed for indoor installation only and must not be exposed to direct sunlight, rain and excessive heat, cold, damp or dust.
- Do not store solvents or corrosive chemicals or other flammable items on or around this appliance
- DANGER:** High Voltages. Power supply must be disconnected before cleaning or removing and outer covers form the appliance. Any service or unit repairs must be performed by a trained and suitably qualified technician.
- Children should be supervised to ensure that they do not play with the appliance.
- DANGER:** The operation of the thermal cut-out indicates a possibly dangerous situation. Do not reset the thermal cut-out until the water heater has been serviced by a qualified person.
- WARNING:** Do not connect any restrictor or pressure relief device to the vent pipe of this water heater if installed.
- 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.
- New hose-sets supplied with the appliance are to be used and old hose-sets should not be re-used.
- Packaging material including plastic bags must be kept out of reach of children and disposed of according to local regulations.
- If the appliance has been turned upside down during transport and handling, wait for at least 8 hours before switching appliance on.
- **WARNING:**This appliance may deliver water at high temperature. Refer to the plumbing code of Australia (PCA), local requirements and installation instructions to determine if additional temperature control is required.
- WARNING:**Installation shall conform to the plumbing code of Australia (PCA).

# Billi™

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