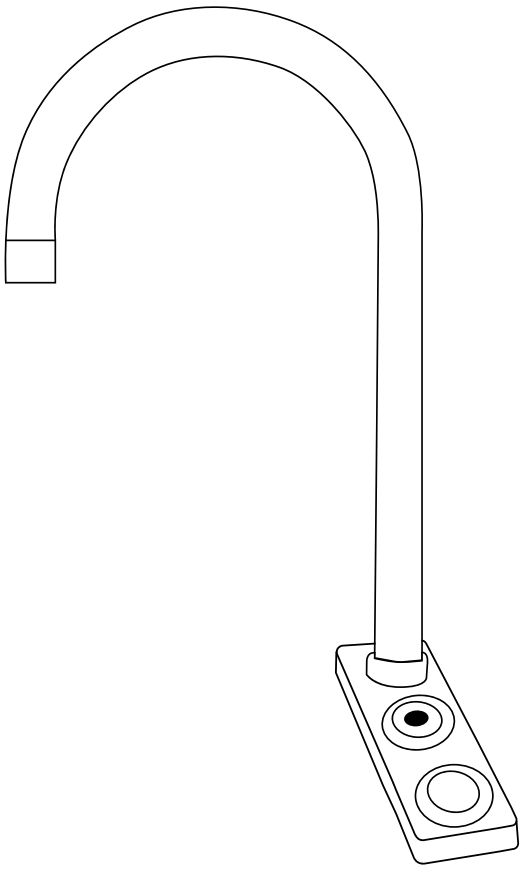
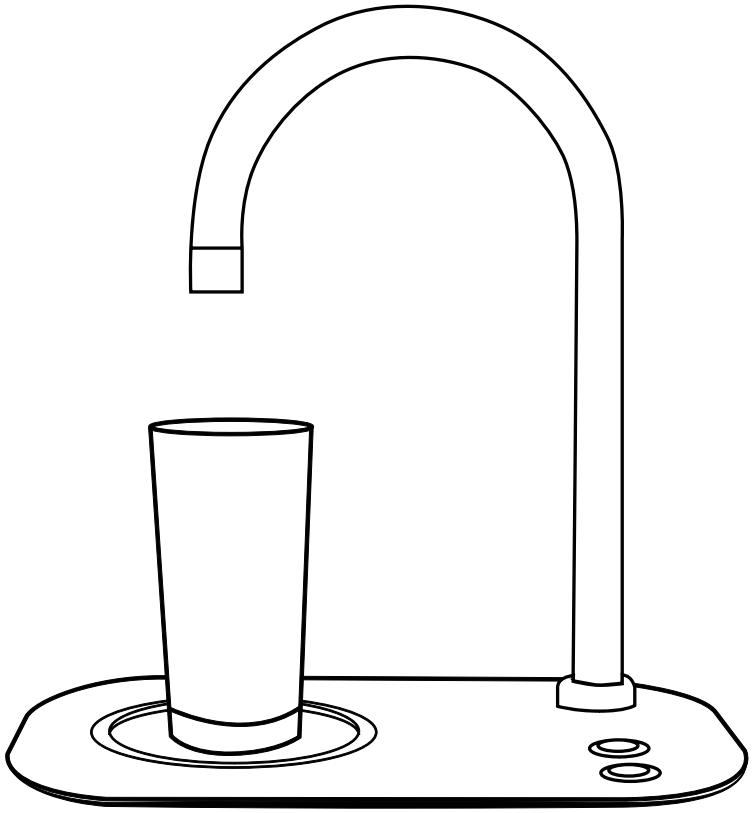
INSTALLATION MANUAL
QST & QSTD

quatreau SmartTap™





MADE IN GREAT BRITAIN

riba product selector

NBS Plus

BOILING

CHILLED

QST553/MAYA - 20250812

EN

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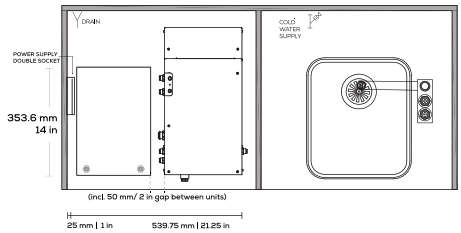
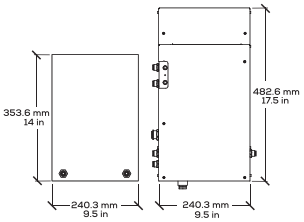
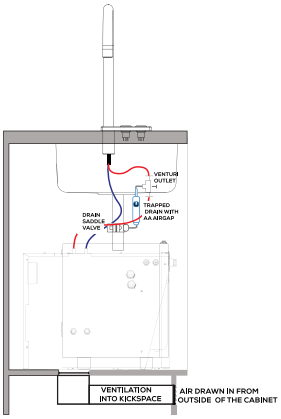
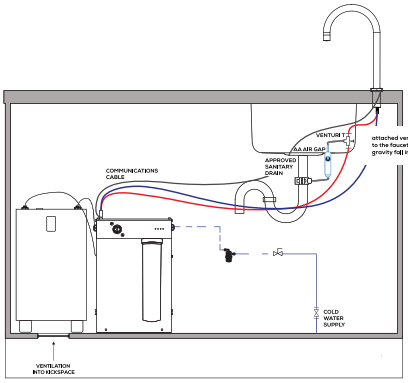
QUATREAU SMARTTAP™
TYPICAL INSTALLATION

STANDALONE

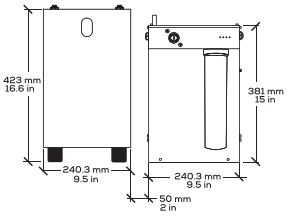




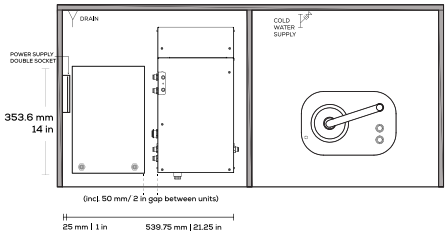


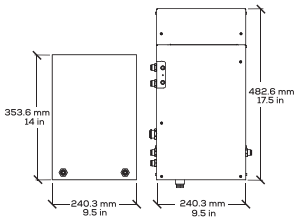


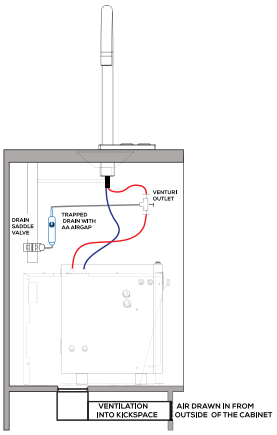
Shown here with tap over adjacent cupboard for clarity. When installing the tap will sit above the equipment

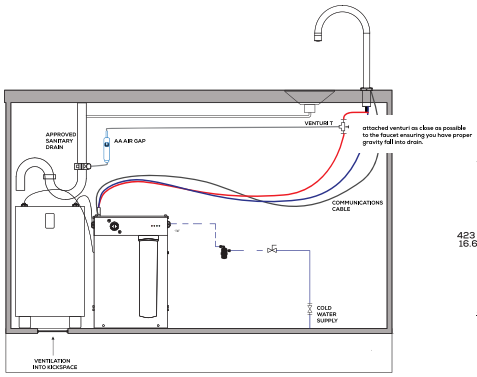


INTEGRATED

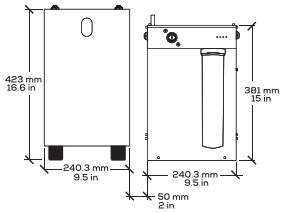








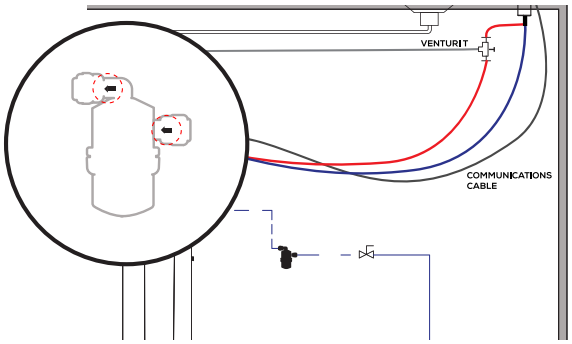
Shown here with tap over adjacent cupboard for clarity. When installing the tap will sit above the equipment



QUATREAU SMARTTAP™ PRE-INSTALLATION CHECK

1. Tools required:
   - **a. Jigsaw** - to cut ventilation under chiller into the cupboard base.
   - **b. Drill and bits** suited to the work surface
   - **c. SmartTap™ 1 x 30 mm core bit** (or closest match)
   - **d. SmartTap™ with Drain 1 x 150 mm core bit** (or closest match) * 30 mm core bit for the buttons.
   - **e. 2mm hex key** - for tightening spout retainer grub screws.
   - **f. Adjustable Spanner or crescent wrench**
   - **g. Plasticpipe cutters or utility knife**

2. **Cold Water Supply:** Make sure you install an isolation valve on the cold water supply to ensure serviceability in the future. At the same time install the supplied in line filter strainer, to the 1/4" blue pipe between the isolator and the Pure Inlet (Make sure the arrows on the filter strainer are pointing in the direction of water flow - Towards the HCU/Boiler.) **Minimum recommended operating pressure 45 psi | 3.10 bar. Max recommended operating pressure 60 psi | 4.13 bar .**



3. **Approved Sanitary Drain:** Ideally located under the sink (see Fig 2.1), unless QSTD will be installed with **INTEGRATED DRIP-TRAY** (see Fig 2.2) drain system will vary.

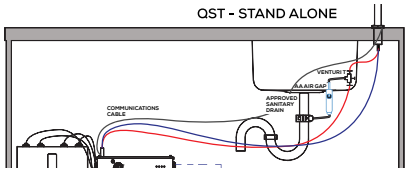
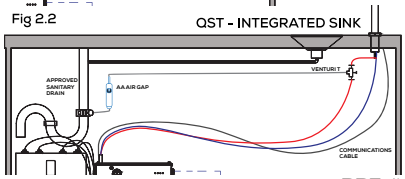


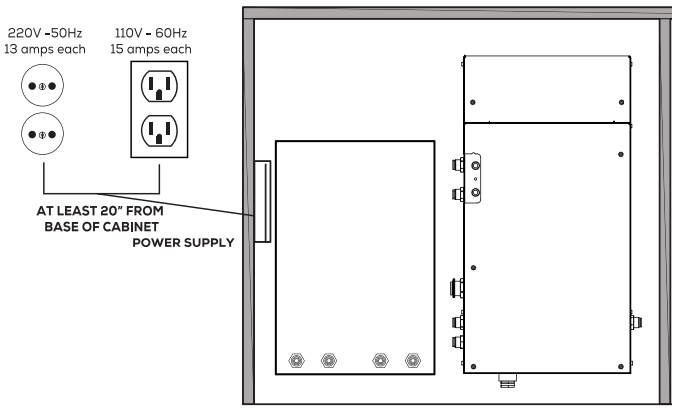
Fig 2.1

Fig 2.2

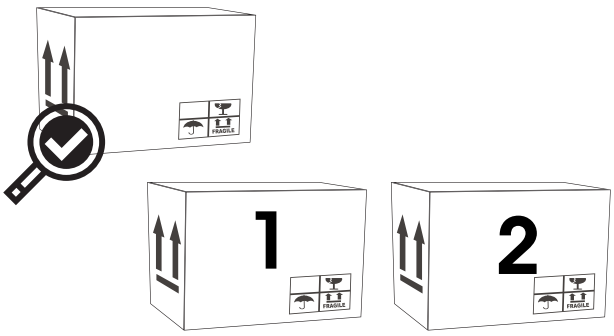


An approved type AA fitting (air gap) must be used for the venturi waste. Either a trapped upstand or drain clamp can be used, or equivalent connection approved in the country or state of installation. Fittings are provided and can be used if applicable for your installation.

4. **Power:** The system requires two (2) dedicated 110V/15 or 220V/13 amp circuits to run your Quatreau.



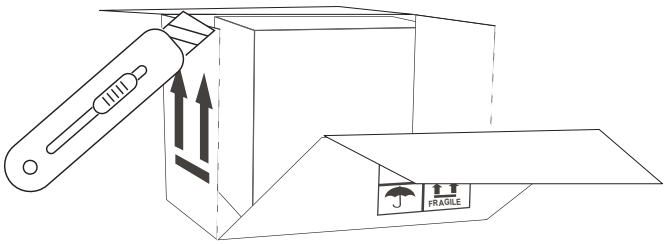
5. **Unpacking your equipment:** Your systems have been carefully packaged. If the box is damaged upon delivery, **you should photograph the damage and remove the contents for inspection before signing the delivery note.**



There will be 2 or 3 boxes depending on the model you have purchased.

a. Quatreau SmartTap™ (faucet)
b. Quatreau Water Heater
c. Quatreau Chiller

6. Open and inspect the Quatreau SmartTap™ to inspect the components and installation kit. Use the packaging to prevent damage until ready to fit the work surface.
Cut down each side of the box to reveal the systems so that you don't have to lift them



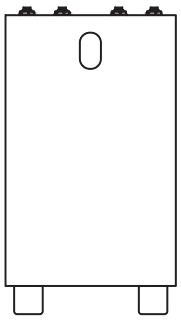
out of the box. Install the water heater on the right-hand side of the cupboard after you've installed the SmartTap™.

This item weighs 19.9 kg or 44 lbs. Please take care when moving or lifting. The sides and corners are hard and will damage furniture if knocked.

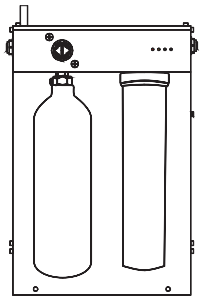
Leave the system on the protective packaging until ready to install.

Please open and inspect the chiller carbonator, then leave it in its base until ready to install.

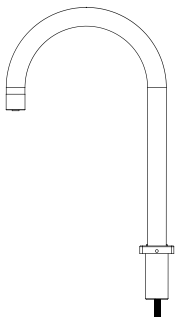
SECTION ONE
INSTALLING THE QUATREAU UNITS SMARTTAP™



Chiller

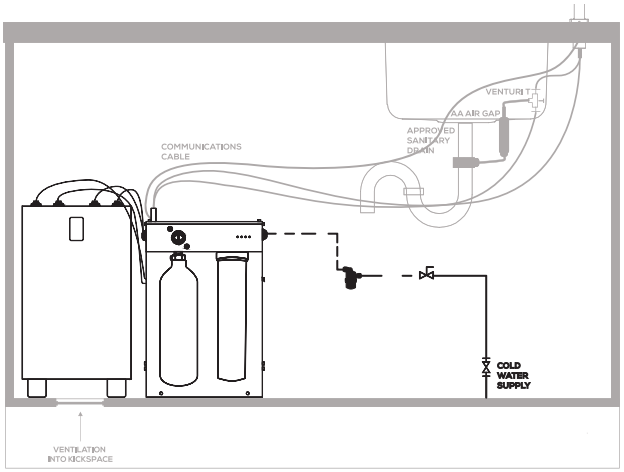


Water Heater



Faucet

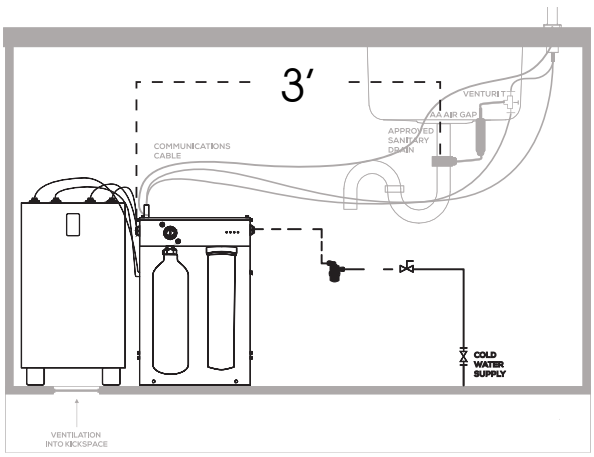
The heater control unit always sits to the right-hand side of the cupboard with the chiller on the left.



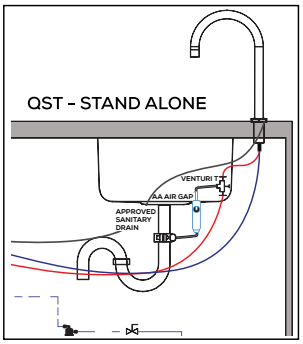
1. Place the chiller and water heater side by side under the kitchen cabinet to ensure that they will both fit. Ensure that there is enough space to allow for ventilation and easy access for maintenance.

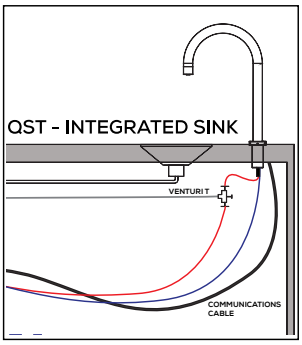
The tap must be sited above or adjacent to the water heater unit, close enough so that the communication cable from the SmartTap™ is not stretched when it plugs into the back left side of the boiler.

2. The Quatreau SmartTap™ will come as a stand-alone tap or integrated into a drip-tray. With the relevant cutting template enclosed with your product, choose the most suitable position for the tap.



3. Depending upon the surface, you will need special cutting equipment. It is required to use a diamond-tipped core bit for granite or marble. For wood or MDF or polymer type surface, a wood bit will normally be adequate. Always check with the worksurface manufacturer and ask what type of bit can be used.

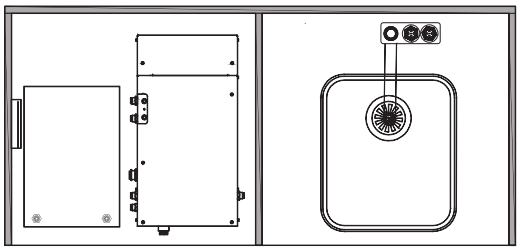




4. Decide where the tap is going to sit. Note that the control panel on the drip tray is on the right-hand side of the tap. Ensure that the location you choose is suitable and that you can reach the controls without needing to stretch while ensuring that the user will not have to reach through the stream of water to operate the tap.

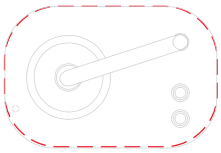
Your kitchen design will, of course, dictate where you can install it safely.

STAND-ALONE TAP

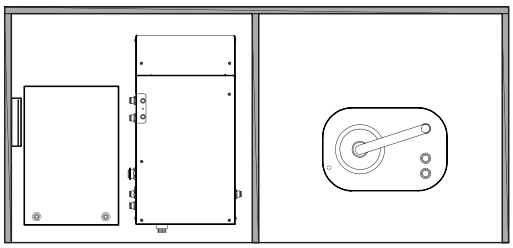


5. The tap can be fitted either to the side of the sink or at the back of the sink. Before you start cutting, ensure that you have set up a jig or a template device to prevent the drill bit from moving when you cut.

If you purchased a stand-alone SmartTap™, (unless special order), the icons will be orientated to sit on the right-hand side of the sink with the spout facing to the left over the sink. The spout will be to the back of the control panel.



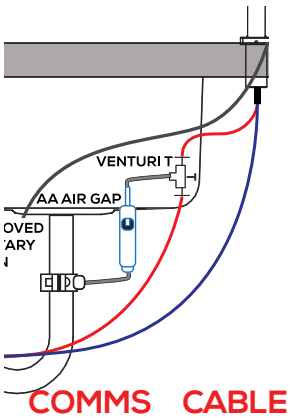
INTEGRATED DRIP-TRAY

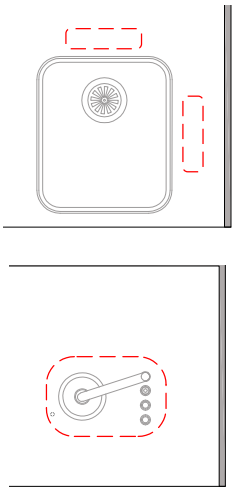


6. If installing the integrated drip tray (QST-D), locate it in the center of the worktop with controls to the right-hand side.

7. Once the hole(s) is prepared, remove any rough edges or bits of wood and place the tap carefully into the hole, ensuring that the comms cable is dropped into the hole first to prevent damage.

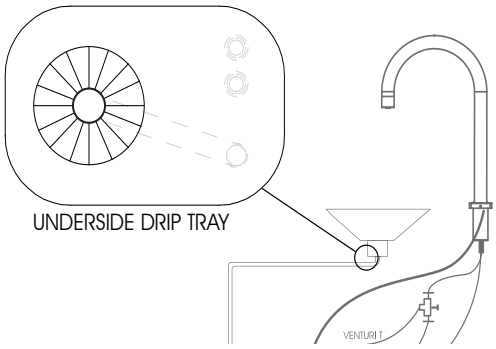
8. Run a bead of silicone around the outer edge of the drip-tray. Only the short, button looms will need to be guided through the button holes drilled. The comms cable need to be plugged into the button looms after the installation of the stand-alone or drip-tray.





THE COMMS CABLE CONNECTS INTO THE BACK-LEFT SIDE OF THE QST553. THE QST553 MUST BE LOCATED CLOSE TO THIS CABLE WITHOUT CAUSING IT TO STRETCH.

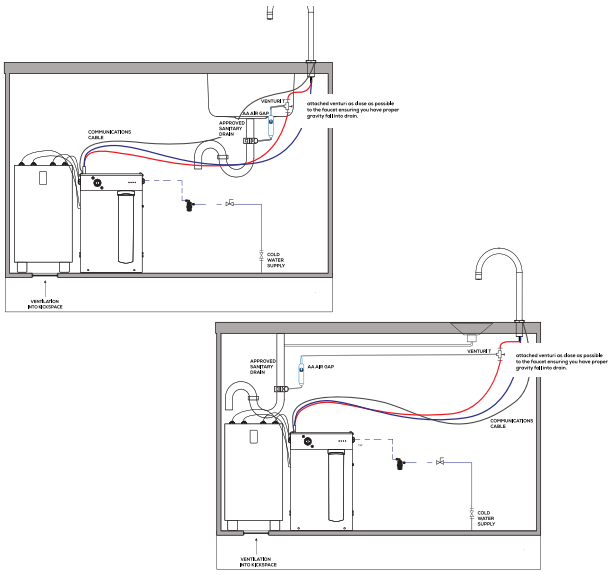
9. Using the fixing nut provided, gently tighten to the underside of the worksurface to prevent the tap base (or drip tray) from moving. Once secure, remove any excess silicone using a wet finger to run around the edges pushing into the corners to create a smooth finish. If the drainer appears to be lifting on one side use a weight to hold it down while the silicon sets.



10. Install the faucet into the Stand Alone / Drip Tray spout retainer. Make sure the faucet is in the correct position and secure in place using the 2 mm Hex grub screw(s).

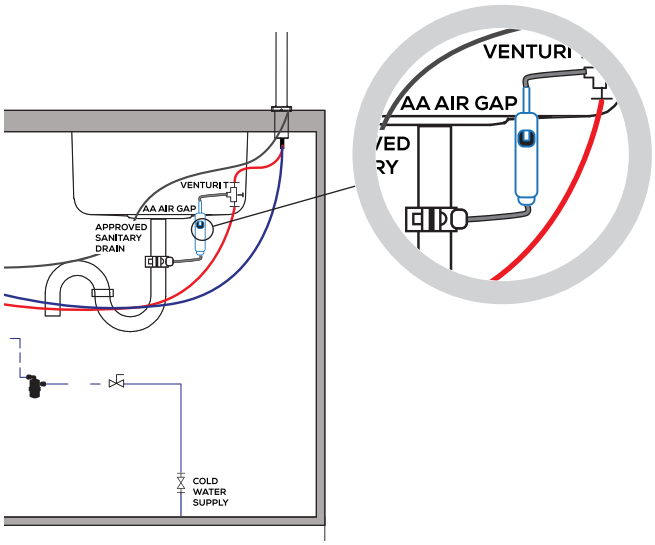
SECTION TWO
INSTALLING THE TYPE AA (AIR GAP) DRAIN

This device prevents any wastewater from the drain from reverse migration into the tap system. It will be required by law in most countries.



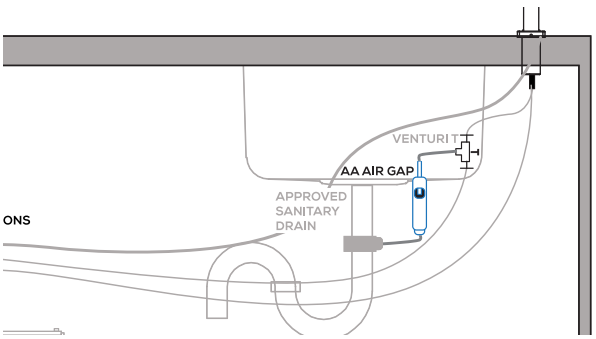
1. Open the drain-off kit and type AA air gap found in the installation kit. Be careful not to lose any parts.`

Locate a suitable position on the approved sanitary drain where the saddle clamp can be fixed and ensure that the check valve, elbow and air-gap device can sit vertically without obstruction.

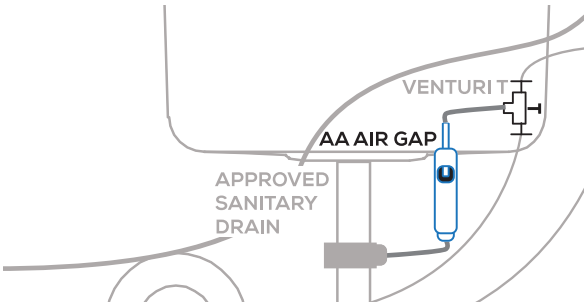


2. Place the saddle valve in a position to allow proper gravity fall from the faucet through the air gap into the saddle valve.

3. Fix in place and connect the elbow, check-valve, and finally, the AA airgap fitting and check it fits. The top of the AA airgap should be at least 6" below the work surface to ensure a gravity fall when connected to the VenturiT™ onto the SmartTap™ boiling pipe. 4-6" below the work surface (this comes later).



4. When you are happy, the parts all fit, and the air gap fitting is fixed, pointing directly upward. Remove components and use the piercing blade or a drill to cut through the waste pipe. This part connects to the internal thread on the saddle clamp. Once cut, remove this cutting device completely and discard it.

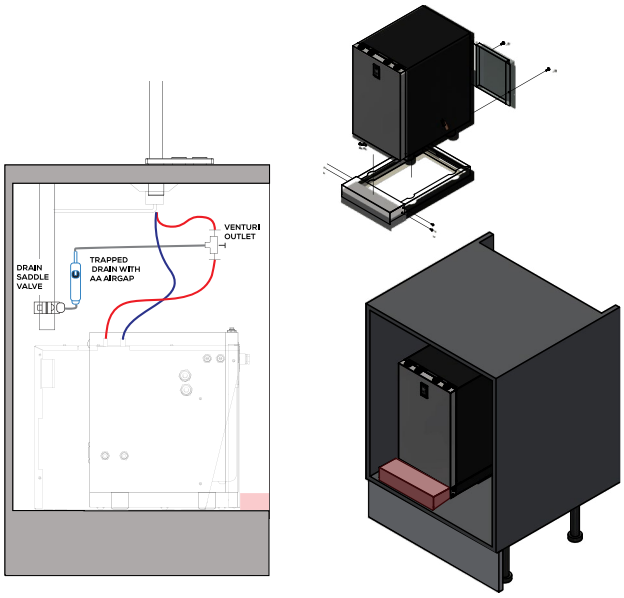


5. Now assemble the drain-off kit with the elbow, check valve, and AA fitting tightening all the collars to create a firm fix. The check valve and the airgap creates two (2) different forms of backflow prevention.

SECTION THREE INSTALLING THE VENTILATION FOR THE CHILLER UNIT

VENT KITS ARE ONLY INTENDED FOR USE WITH CHILLER 20L UNITS. VENT KITS ARE NOT SUPPLIED OR REQUIRED FOR 45L UNITS.

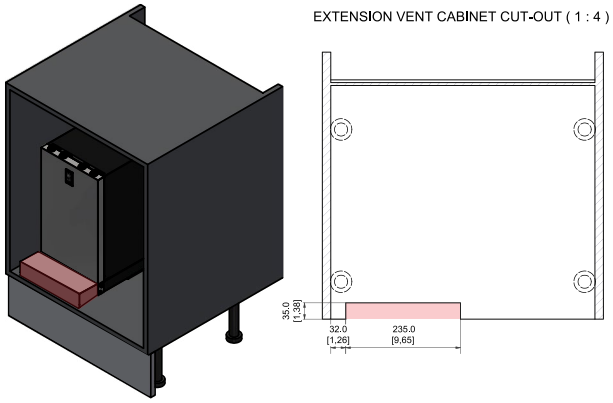
Ventilation will ensure your chiller performs to its specifications. Failure to install this will void the warranty on this module.



Front Vent Kit Extension

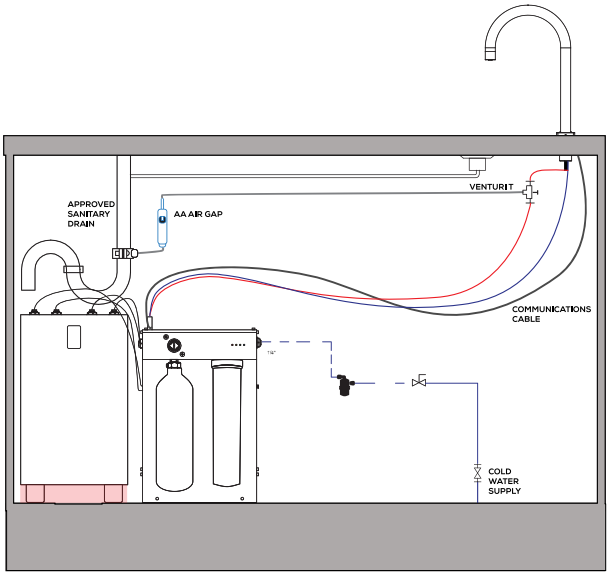
1. Locate Vent Kit Extension
Inside the packaging, you will find a vent kit extension.

VENTILATION DRAWINGS - Base Cutting template - sample only

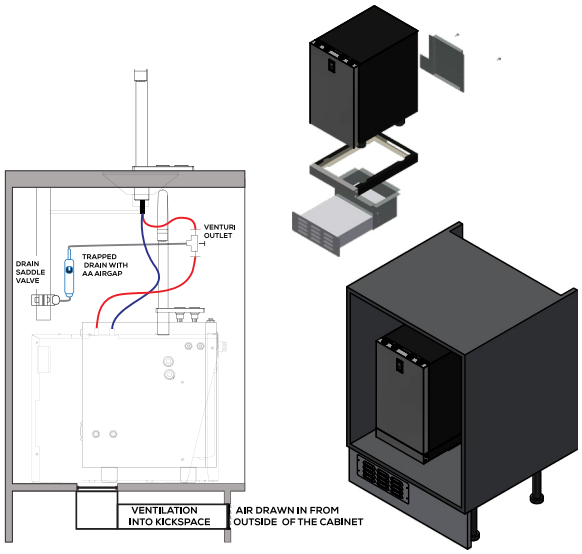


2. Use the Vent Kit Extension
The vent kit is designed for the chiller and should be used when a kick space cutout is not possible underneath the cabinet.

The template is included with the vent kit. For details on the extension vent cabinet cut-out, please refer to the information above.



Base & Front Grill Vent Kit

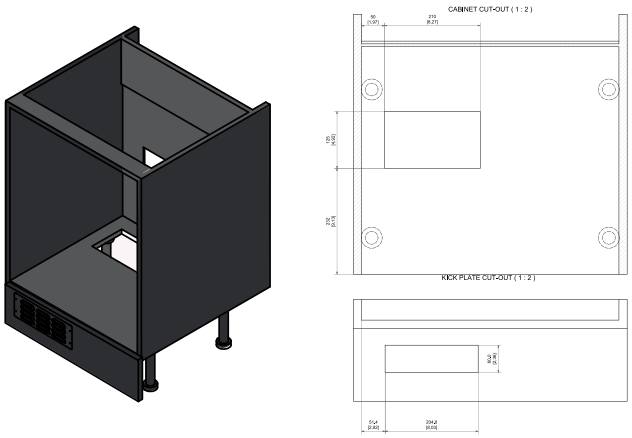


1. Inside the packing, you will find cutting templates. Choose the Maya chiller base and front grill.

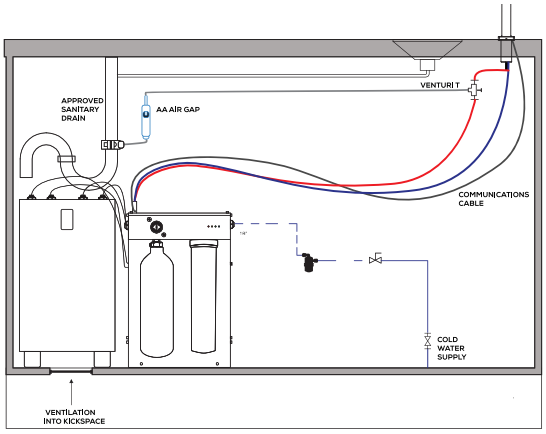
2. Drop the kick board and check underneath the cupboard's left side for any pipes or electrical wires that may be in the way.
Ensure they are moved before starting to cut the ventilation.

3. In the fitting kit, you will find a 1/4" filter screen. Fit this in the same line to the boiler to protect the inlet solenoid from particles that can stop it from closing.

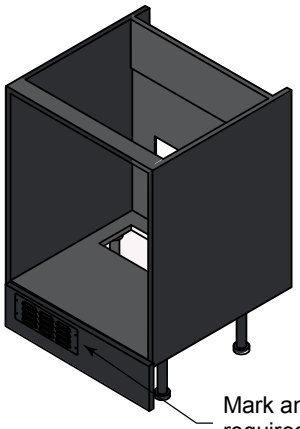
VENTILATION DRAWINGS - Base Cutting template - sample only



4. Locate the base cutting template inside the cupboard's left side, mark the 4 corners, and cut the ventilation hole into the base.



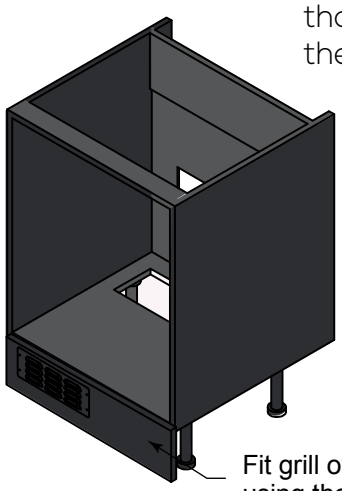
5. Install the vent kit (steel angle piece) provided and insert the vent duct so that it runs to the front of the cupboard. Mark off the point where it crosses the kickboard and cut to length using a suitable hand saw.



Mark and cut ducting to length if required using the kick board as reference.

6. Using the template for the kick board vent grill, mark the location for the screws and cut out area and cut out.

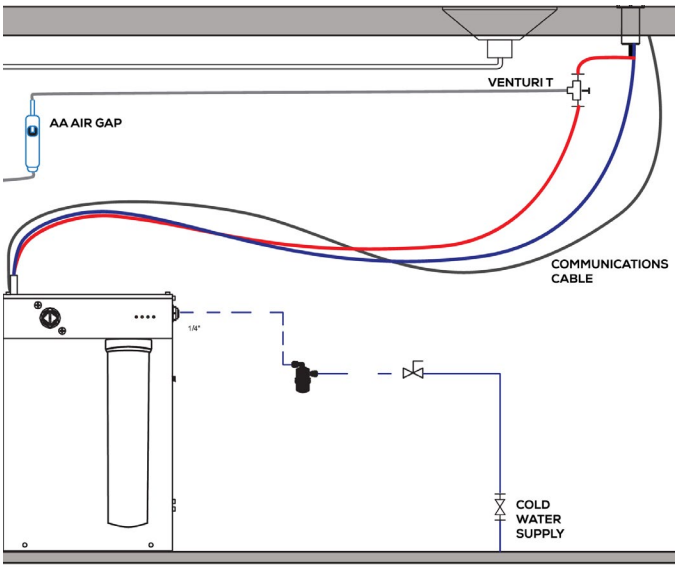
Fix grill to front and replace the kick board so that it marries up with the vent duct.



Fit grill over the kick board cut out using the screws supplied.

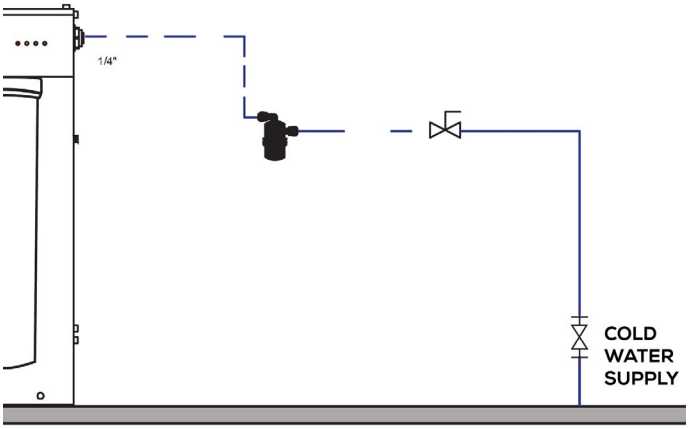
SECTION FOUR
CONNECTING WATER SUPPLY

1. Connect your cold water supply using the 1/4" blue tubing that is supplied in the kit. Connect it to the right side of the boiler.



2. Connect the blue ¼" tube found in the installation kit to this ¼" connection on the mains supply (push in firmly), then cut it at a length that extends to the front of the cupboard where the water heater inlet will sit. Install filter and isolator making sure the isolator is closed.

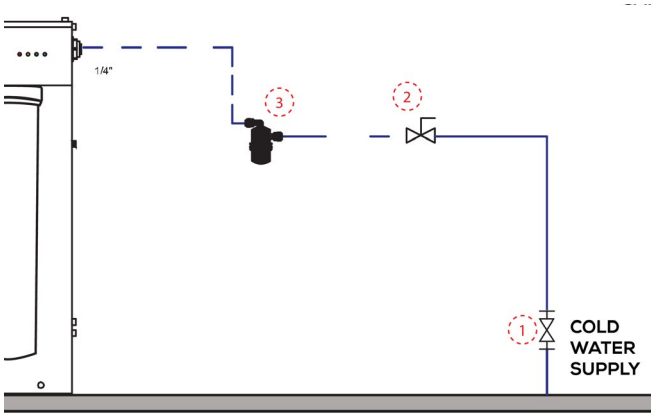
MAKE SURE ISOLATION VALVE IS CLOSED



3. Slide the QST553 (the water heater) into the place on the right side of the cupboard. Connect the ¼" pipe from the isolator into the front right-hand side port.

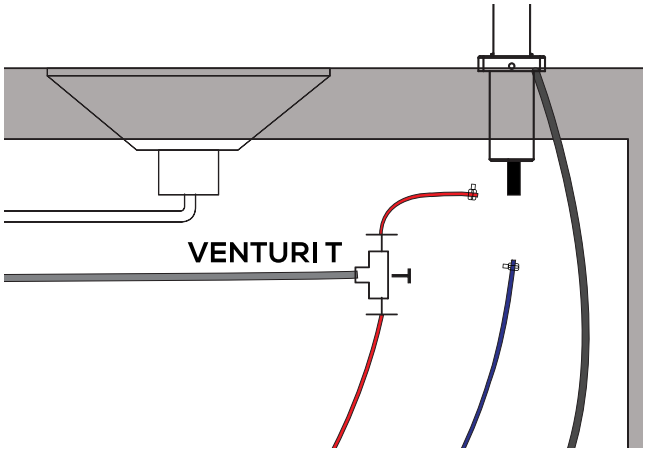
4. Now **(1)** turn on the cold water supply and **(2)** turn on the isolator, check the connections are water-tight.

DO NOT CONNECT WATER HEATER POWER UNTIL INSTRUCTED TO DO SO.



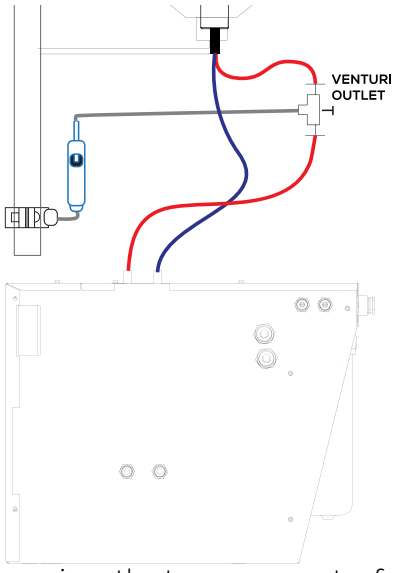
5. In your installation kit, you will find a length of silicone tube with a VenturiT™ connector. Connect the shortest distance (above the T) to either of the two (2) pipes protruding from the base of the faucet, using the spring clips to secure the tubing.

When connecting the silicone onto the faucet pipe work, be sure to push up onto the pipe work, ensuring you do not bend the faucet pipes.



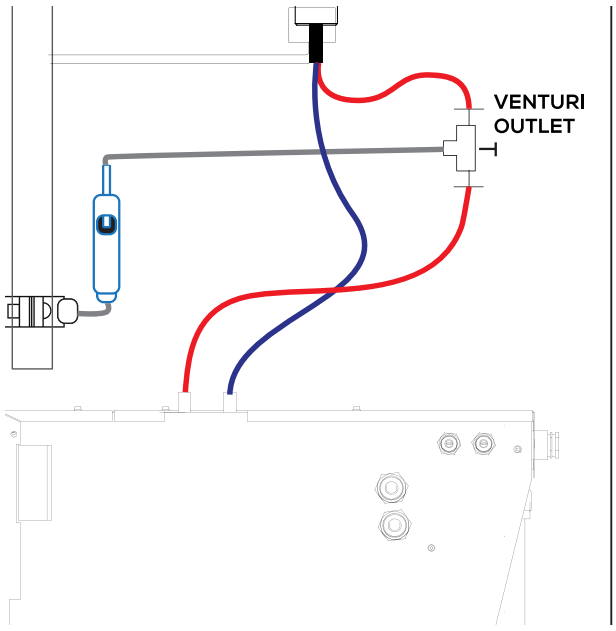
6. Connect the other end to the rear spigot sticking up at the water heater. Do this by cutting the length back so that you don't have too much pipe in use.

The run should be as long as necessary to make a smooth connection without stretching the pipe. Use the spring clips to secure them in place.



7. The other pipe that comes out of the venturiT™ should now be connected to the top of the Type AA airgap drain. Cut it back if to a reasonable length but not so short that it is stretched. The pipe should run downhill so that water can escape by gravity.

8. Using the final piece of silicone in the fitting kit, connect the front spigot (this feeds chilled and sparkling water) to the remaining pipe. Ensure you do not pull on the pipe coming from the spout.



DO NOT TURN ON THE POWER
This step is handled in the commissioning guide.

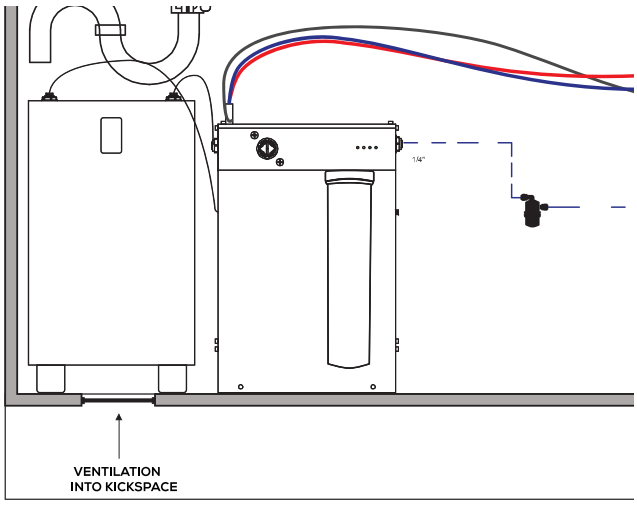
NOTE
The venturiT™ is a unique device that enables the boiler to vent itself to drain.

During the heating cycles, water expansion would otherwise push boiling water out of the spout without activating the boiling function. It's essential to install it running the pipe down-hill.

NOTE
If using an RO system, you must ensure it delivers water at 45-60psi at all times. You may need to add a pump to ensure the optimum psi is supplied to the Quatreau system.

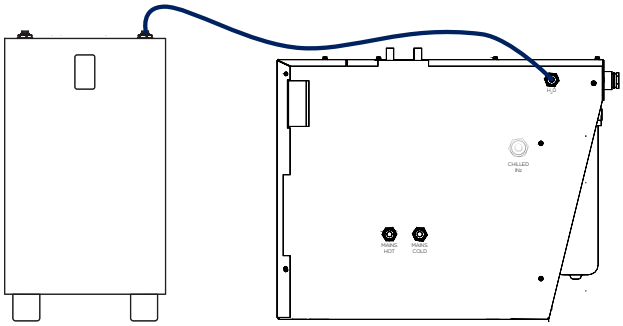
SECTION FIVE
INSTALLING THE QUATREAU CHILLER CARBONATOR

1. Site the chiller unit to the left of the water heater over the ventilation duct.

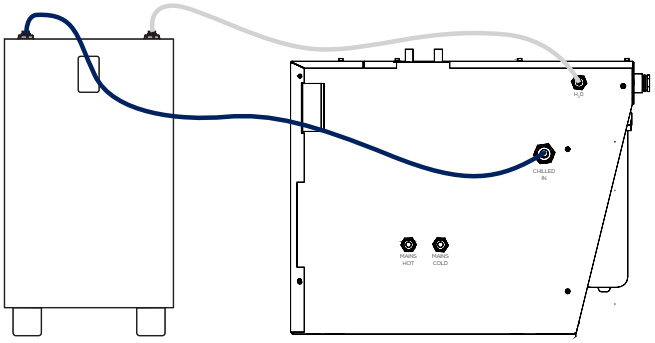


2. Use the 1/4" blue pipe provided to interconnect the QST553 and chiller unit as follows.

a. H^20 OUT on the 553-B into WATER IN on the chiller.



b. CHILL WATER OUT on the chiller to CHILLED IN on the 553-B



NOTE
Ensure that you leave a 1" gap around the chiller unit's sides, enabling ventilation and air movement, without which the system will not chill correctly.
DO NOT TURN ON THE POWER TO THE CHILLER OR DAMAGE WILL OCCUR
This step is covered in the commissioning manual.

End of the installation manual. Now refer to the commissioning manual.

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Find out more at: www.Quatreau.com

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