COMMISSIONING MANUAL

QT/QST553 Water Heater Control Unit Maya Chiller Carbonator





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QUATREAU COLLECTION BEFORE YOU START

Note: Before you start, the following interconnections must be made between the water heater and the chiller.

WARNING: Do not plug in the water heater or chiller until instructed to do so.

1. The **H**₂**0 OUT**(left side of the heater) is connected to the **WATER IN** on the chiller.



2. The **CHILLED IN** on the left of the water heater is connected to the **CHILL OUT** on the chiller.



3. The **CARB IN** on the left of the water heater is connected to the **SODA OUT** on the chiller.



4. The $CO_2 OUT$ on the left of the water heater is connected to the $CO_2 IN$ on the chiller.



5. Connect the cold water supply to the **PURE INLET** connection on the right side of the water heater.



We recommended using a reverse osmosis (RO) system on the cold water supply / PURE INLET to ensure quality drinking water. If you are using an RO system, please continue commissioning as below and switch to the RO feed when you get to Section D.

6. For **TouchTap™** models, you will also connect the cold water supply and thermo-statically controlled hot water supply to the inlets found on the lower left side of the water heater marked **MAINS HOT and MAINS COLD**.

SECTION A: Commissioning Sequence for Quatreau TouchTap[™] and SmartTap[™] Water Heaters (553)

1. Connect the communications cable from the tap to the water heater.



2. Turn on the cold water supply to the $^{1}\!\!\!/4''$ inlet on the front right side of the water heater.



3. Connect the power cable provided for the water heater.



4. Power up the water heater. A red light will show on the top right of the water heater.



5. Look for the **TouchTap™** panel's four (4) quadrants to illuminate and then turn off.

If a **SmartTap™**, look for buttons on the panel to light.



Note: If you do not see the panels light up, please check if the communications cable is connected properly.

WARNING: To not damage the water heater, **as soon as the unit is powered up**, run water through the boiling function four times as shown in point 6 below. 6. Activate the boiling flow at the tap control immediately after powering up.



If you have the **SmartTap™**, press the red illuminated button to start the boiling function.

If you have the **TouchTap™**, this is a 3-touch sequence to activate the boiling function shown below.



7. Allow water to run for approximately thirty (30) seconds, then deactivate.

8. Wait for one (1) minute and repeat, allowing water to flow for sixty (60) seconds.

Repeat this process three (3) times.

9. When the green light on the water heater unit appears and the red light goes out, the water heater has reached its temperature. Your water heater unit is now commissioned and ready for use.



NOTE: You will see/hear water running through the Venturi T to drain during this process. This device enables the water heater to vent safely to drain during expansion and also removes any water left in the spout after use.

SECTION B: Commissioning the Chiller Carbonator MAYA

DO NOT PLUG IN CHILLER UNTIL INSTRUCTED TO DO SO. SHUT OFF WATER SUPPLY FROM ISOLATION VALVE.

1. Connect the CO_2 bottle to the regulator found on the front of the water heater unit. Listen for gas escaping and keep twisting the bottle until it stops. Stop when the bottle is hand tight.



NOTE: If you don't hear the air escaping, there's no gas in the bottle.

DO NOT POWER UP YET.

1. Press the sparkling function once allow gas to spurt from faucet (this should be immediately) then press the sparkling
() function again to stop the gas spurting.

2. Turn on the water from the isolation valve. Press the chilled (*) water button on the panel allow water to run for 5-10 seconds to ensure water is flowing.

NOTE: POWER SWITCH BEHIND CHILLER UNIT

WARNING: Make sure to read full instructions for step 3 before hand.

3. Plug the chiller unit into the electrical supply and turn on the switch on the chiller. Within a short time (approximately 5-10 seconds), press the sparkling () water button on and then off on the panel in quick succession.



CHILLER

4. The pump will run for 10-30 seconds and then switch off. Run 4-5 glasses of sparkling water to ensure the chiller is commissioned correctly.

WARNING: If commissioning is not followed correctly - whenever the sparkling water button is pressed only gas will come from the faucet. If this occur, please restart the commissioning. **NOTES:**These step-by-step instructions ensure that the chiller unit is working properly, not for water quality. To fully enjoy carbonated water, the water must be chilled to experience the carbonation.

Wait a few minutes until the chiller fan and compressor turn off. At this point, the cold water should be at 40°F (4.4°C).



SmartTap™

DO NOT TASTE WATER UNTIL SYSTEM HAS BEEN SANITIZED.

SECTION C: SANITISATION AND FILTER CHANGE PROCEDURE

Annual GAC carbon filter change to sterilise the boiler and chiller system and change filter at service intervals use the following procedure.



1. Turn water off the Boiler 553-B

2. Run chilled and boiling water at the tap to ensure you have depressurized the system and no water is coming out.



3.Unscrew stainless steel filter housing taking care not to spill the water as it comes loose. (use a cloth) Carefully unscrew the filter attached inside by unscrewing the plastic rim.



4. Pour out the water and remove the filter – then add some water and add a capful or two of mild sterilising fluid or chlorine so that you have a 5ppm dilution approx.



5. Refit the housing to the system and activate the water supply.



6. Run the water through the (1) chilled, (2) boiling and then (3) sparkling (in this order) function until you can smell chlorine in the water.



7. Turn off water supply, depressurize Quatreau Unit through chilled / boiling function, then remove the stainless housing again.



8. (1) Empty the water in the stainless steel housing. (2) Remove wrapper of the F-PRO Block Carbon filter and (3) insert it into the stainless steel housing.



9. Position the filter housing so that the filter lines up with the internal thread, ensuring you have the o-ring installed under the filter thread.



WE ADVICE TO GET YOUR SYSTEM SER-VICE AND SANITISE ANNUALLY DEPEND-ING ON WATER USAGE.

10. Holding the filter by the top rim only (not the carbon), carefully screw it up into its socket, and tighten using fingers only.



11. Now refit the filter housing, carefully ensure the gasket is in place, and hand-tight the stainless steel housing.



12. Ideally, you will leave the chlorine in the chiller unit for a good 15 minutes before flushing through.

13. When ready, turn the water supply back on and run off a few glasses through the chiller until it clears.



14. Repeat with the water heater and carbonator.



15. A residual taste isn't a bad thing - it will disappear after a few glasses of water but will maintain a sanitizing effect.



SECTION D: Adjusting the level of carbonation in the Chiller Carbonator

1. On the front of the water heater unit, you will find the gas regulator and instructions for increasing the level of carbonation.



NOTE: The gas regulator is factory set.

2. When adjusting, turn the regulator in small increments in the desired direction (+/-) clockwise or anti-clockwise.

3. Run few glasses of water to taste test before changing again until you reached the desired carbonation in water.

SECTION E: Recommended Operation with Reverse Osmosis Water Supply

To feed your Quatreau system with water from a reverse osmosis (RO) system:

1. Install the RO system per manufacturing instructions.

2. Ensure that the storage tank is full.

3. The optimum operating pressure from the RO system to the water heater and chiller is 3bar / 45psi. Some RO systems have a maximum pressure of 30 psi from the tank when full. You will therefore need to install a delivery pump set at 3bar/45 psi to maintain optimum performance. At no point should the incoming pressure exceed 4.1bar/60 psi.

4. Change the mains feed into the front right side of the water heater **PURE INLET** to your RO feed.

NOTE: Starvation of water will damage the water heater. Do not run the Quatreau if the RO system has run out of water or the incoming water pressure drops below 1bar/15 psi. This invalidates the twelve (12) month limited warranty.

SECTION F: QUATREAU TOUCHTAP™ ONLY Optimum Setting for Mains Hot & Cold

Adjust the flow rate of the mains hot and cold down to a point where it doesn't splash when washing hands. The flow should be smooth, calm and have the appearance of a cone at the point where it falls from the faucet.

If you need to adjust the hand hot temperature, this needs to be done through your thermal mixing valve external to the Quatreau system.

Find out more at: www.Quatreau.com