
COMMISSIONING GUIDE

QT/QST553 Boiler Control Unit

CS20 Chiller Carbonator



quatreau®
Touch



quatreau®
SmartTap



QUATREAU COLLECTION

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QUATREAU COLLECTION BEFORE YOU START

Note that before you start the following interconnections must be made between the boiler and the chiller and the returns from the chiller to the boiler unit.

1. The 'pure outlet' (left side of the boiler) is connected to the 'water Inlet' on the chiller.
2. The 'chilled outlet' on the right of the chiller is connected to the 'chilled Inlet' on the left of the boiler.
3. The 'sparkling outlet' on the right of the chiller is connected to the 'sparkling Inlet' on the left of the boiler.
4. For TouchTap™ models you will also connect the mains cold and thermostatically controlled hot to the inlets found on the lower part of the boiler unit at the back left side marked 'mains hot in' and 'cold mains in'.
5. **CHLORINATION: It is important** that the chiller / chiller carbonator unit is sanitized 30 minutes prior to commissioning. This can be done before you start the installation. To sanitize, simply run a feed of chlorinated water (approx. 5ppm) through the chiller inlet to the outlet(s). Leave solution in the chiller and proceed to commissioning.

**DO NOT POWER THE SYSTEM UP
UNTIL INSTRUCTED TO DO SO.**

SECTION A: Commissioning sequence for Quatreau Touch™ and SmartTap™ Boilers (553-B)

1. Connect the communications cable from the tap to the Boiler.
2. Open the mains cold water supply to the 1/4" inlet on the front right side of the boiler.
3. Connect the power cable provided. (NOTE that this is rated 15Amp)
4. Power up the Boiler. A red light will show on the top right of the Boiler,
5. Look for the SmartTap™ buttons on the panel to light up.
6. Look for the TouchTap™ panel 4 quadrants to illuminate and then turn off.

Note: If you do not see the panels light up check the communication cable is connected properly.

SECTION B:

Boiler Venting Procedure

To slow down the rate the system reaches temperature on commissioning and to flush out the chlorine we add to the boiler during manufacture. Repeat this process if your system is turned off for vacation.

1. Activate the boiling flow at the tap control within 2 minutes of powering up.
 - If you have the SmartTap™ this will be the red illuminated button.
 - If you have the TouchTap™ this has a simple 3 touch sequence - top left quadrant then the bottom left then top left again. Please refer to the TouchTap™ operation guide.
2. Allow water to run for approx. 30 seconds then deactivate.
3. Wait for 1 minute and repeat allowing water to flow for 30 seconds. Repeat this process 3 times. **Note** that the SmartTap buttons are programmed to stop after 6 seconds so it will require 5 activations.
4. When the green light on the Boiler unit appears and the red light goes out the boiler has reached temperature. Your boiling unit is now commissioned and ready for use.

Note that you will see water running through the venturi™ to drain during this process. This unique device enables the boiler to vent safely to drain during expansion and also removes any water left in the spout after use.

SECTION C:

Commissioning the Chiller Carbonator CS20.

READ INSTRUCTIONS BEFORE PROCEEDING

1. Activate the chilled water selection on your tap and allow water to run for 30 seconds to flush out any chlorinated water then deactivate.
2. Turn off the mains cold water feed to the **Boiler Inlet**.
3. Connect the CO2 bottle to the regulator found on the front of boiler unit. Listen for gas escaping and keep twisting the bottle until it stops. Stop when the bottle is hand tight.
4. **DO NOT POWER UP YET.**
 - Run the Sparkling option on the tap until gas comes out.
 - Deactivate the Sparkling function
5. Now re-open the mains cold water supply to the **Boiler Inlet**.
6. Activate the **sparkling** function on the tap and allow water to run.
7. Whilst the water is running **Power Up** the chiller carbonator (turn it on).
8. Deactivate the Sparkling option.
9. Activate the sparkling option again one for a couple of seconds and then deactivate.

Note : Listen for the pump to activate during this process. The pump pressurizes the gas into the water. Activating the sparkling function opens the solenoid that feeds water into the chiller carbonator. When deselecting sparkling the inlet solenoid remains open for 30 seconds so that the pump can continue to feed pressurized water into the chamber where it mixes with the gas. The pump will be damaged if it is starved of water (this is

why the solenoid has a delay). If you hear the pump running beyond 20 seconds simply activate the sparkling for 1-2 seconds to open the solenoid. **DO NOT ALLOW SYSTEM TO RUN DRY**

10. The compressor and fan in the chiller unit will continue to run until temperature is reached. This should take approx. 5-10 minutes depending upon the temperature of the incoming mains water supply.
11. When the fan and compressor have stopped, activate the sparkling function again and run off 1 glassful of water. Deactivate the sparkling and wait for the pump to stop. Repeat this process for 2 more glasses of water. (The saturation of CO2 is at its optimum below 4degreesC.)
12. Now you can taste the water to see the level of carbonation.

SECTION C:

Adjusting the level of carbonation in the Chiller Carbonator CS20.

13. On the front of the boiler unit you will find the gas regulator and instructions for increasing the level of carbonation.
14. When adjusting make 1/4 turn adjustments in the desired direction (+/-).
15. After an adjustment repeat process 11 and 12.

Note: If you do not hear the pump activate during this process, power off the chiller and repeat processes 6-9.

SECTION D:

Conversion to Purified Water

If you wish to feed your QT/QTS553-BCS from an RO system.

1. First ensure that the storage tank is full.
2. Change the mains feed into the front right side of the boiler to your RO feed.
3. The Optimum operating pressure from the RO system to the boiler and chiller is 3Bar / 45psi
4. If using a PurityPRO™ RO system from The Pureh2o Company™ www.pureh2o.co.uk delivery pressure is maintained at 50psi and is fully compatible with the Quatreau Range.
5. If using any other make of RO it is likely that maximum pressure will be 30psi from the tank when full. You will therefore need to install a delivery pump set at 3Bar to maintain optimum performance.

Note: : Starvation of water will damage the chiller carbonator pump. Do not run the sparkling function if the RO system has run out of water or pressure drops below 15psi. This invalidates the 12 month warranty.

SECTION E: QUATREAU TOUCH TAP ONLY

Optimum setting for mains Hot & Cold

Finally, 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.

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