Procedure for Purging the Water out of Vaporizer Coils on a Carbo-Max® Tank

1) Turn off all the valves on the tank except the economizer valve to be able to observe tank pressure - (See Bottom Picture)
2) Take apart High Phase side of the liquid level circuit - (See Top Picture)
3) Install a ¼” hose barb into the elbow on the high phase isolation valve
4) Install ¼” ID hose to barb and route the hose outside to drain the tank, anchoring it to the ground somehow
5) Verify the tank has at least 150 psi of pressure, if not, then additional pressure may have to be added through the Sure-Fill™ circuit. - (See Middle Picture)
6) Open the High Phase valve to begin emptying the tank
7) Once the tank is empty, drain the remaining pressure
8) Rig up a high-pressure bottle of N₂ with a regulator and ¼” hose, connect the hose to another ¼” hose barb that can be connected to the top of the Sure-Fill tee to slowly purge the inner vessel to warm it up to above 32 degrees. – (See Middle Picture)
9) When the inner vessel is warmed up, close the high phase valve and pressurize the inner to 100-125 psi.
10) Take off the gas use regulators – (Bottom Picture)
11) Open the gas use valve safely to push the water that is in the internal coils out
12) Close the valve, allow to sit with pressure for a couple minutes and open the valve again
13) Repeat steps 11 and 12 until there appears to be no more moisture coming out of the coils
14) Drop the pressure to about 20-25 psi
15) Reassemble the circuits
16) Refill the tank with CO₂
Take Apart

Put Hose Barb

High Phase Valve

Hose Barb to Purge & Pressurize

Sure-Fill Valve

Sure-Fill Tee Plug
If you have any questions, you can always call Chart's Customer Service Department for more information at 1-800-247-4446.