



**ENGINEERING BETTER BEER**

**Ss Glycol Chiller 3/8 HP Quick Start Guide**

# IMPORTANT INSTRUCTIONS



## WARNING

Due to the high probability of the chiller being placed in a vertical or horizontal position during shipping. Once unboxed, let the chiller sit in its standard orientation for no less than 24 hours before powering on, so that refrigerant and lubricant can settle. Failure to do so could result in immediate compressor failure.



## WARNING

This chiller is not meant to cool wort from boiling temperatures. It is intended to be used as a fermentation temperature control device. Using the chiller to cool wort from high temperatures could overload the unit and void your warranty.



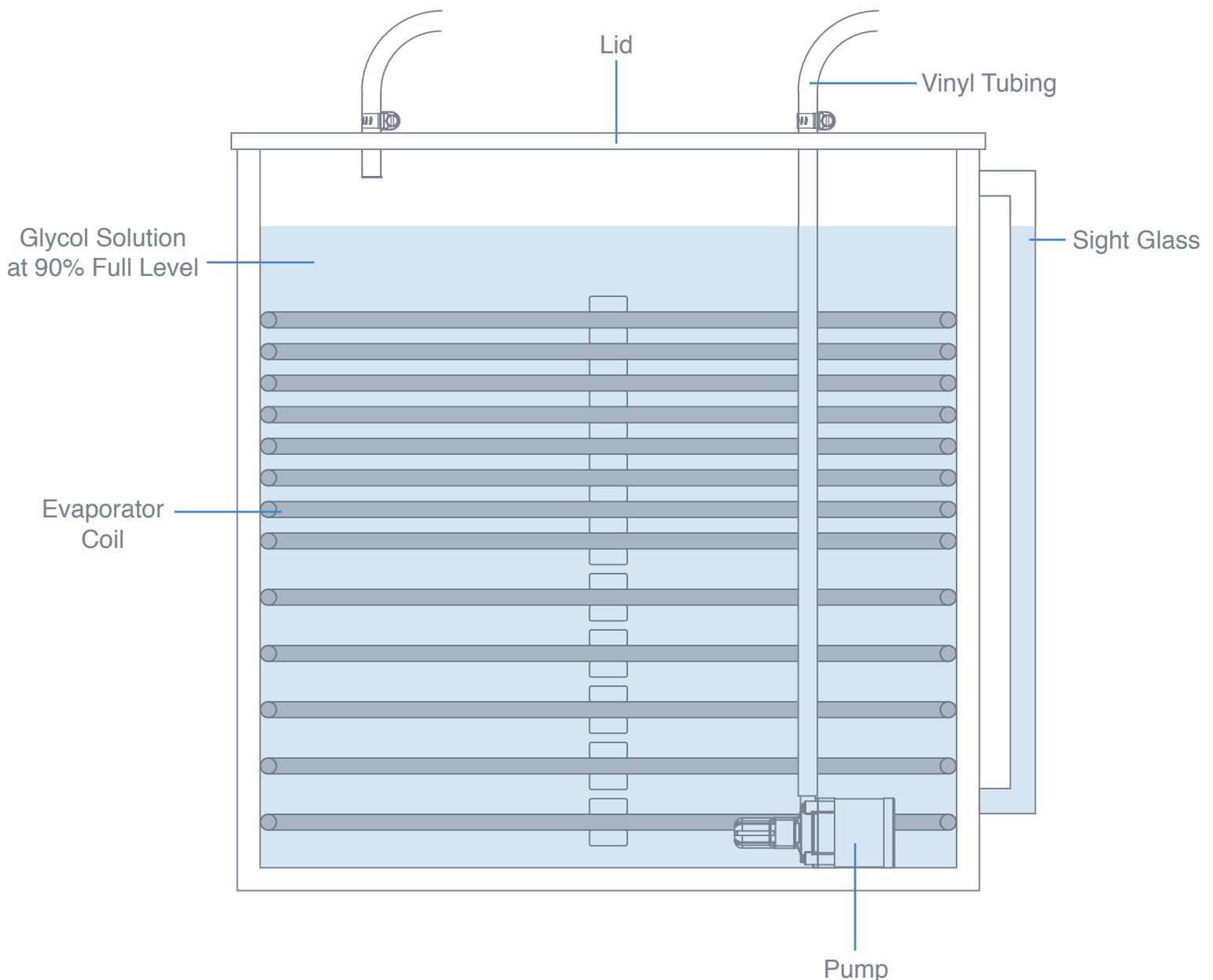
## WARNING

We recommend running the chiller set point at the spectrum of 28°F to 32°F for best compressor efficiency and longevity.

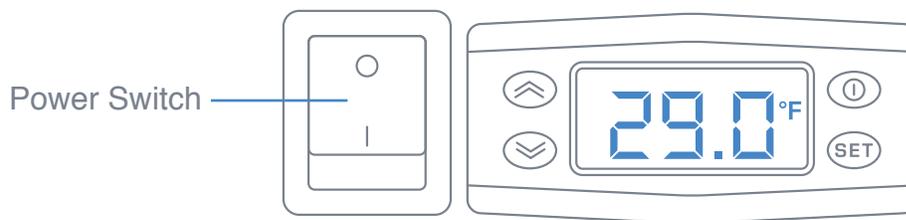
## SYSTEM ASSEMBLY

1. Once you have allowed the chiller to settle for at least 24 hours, Begin by removing the reservoir lid and connecting the FTSs pumps to barbs on the underside. Size the pump tubing leads so that the pumps rest at or near the bottom of the reservoir, take care to mark the barbs where the pumps are attached. Next, pour 3 gallons of 100% propylene glycol into the reservoir, then use distilled water to bring the reservoir up to 75% capacity, making sure the solution is well blended.

2. Next submerge the pump(s) in the glycol solution, and top off the reservoir to about the 90% full level, making sure the evaporator coil is sufficiently submerged. This will allow glycol to flow through each fermenter's coil without risking the chance of flowing back to the reservoir and overflowing the reservoir. Use the reservoir's sight glass as an indicated for glycol level.



3. Reinstall the reservoir lid, and route the pump's lead wire(s) through the notch when the evaporator coil enters the reservoir. Next, extend a length of 3/8" tubing from the pump outlet barbs on the reservoir lid, taking note to install the tubing to the same hose barb where the pump is installed. Run that length of tubing to one side of the FTSS Chiller Coil.
4. Finally, run a second length of tubing from the other side of the FTSS Chiller Coil back to any barbs not occupied by a pump. We recommend using hose/tubing/pipe insulation wherever possible to help the chiller operate more efficiently.
5. Lastly, make all of your final FTSS connections, using hose clamps wherever possible, and turn on the controller to check for leaks. Let the FTSS pumps run for 5-10 minutes to assist in blending the glycol solution. If no leaks are apparent, go ahead and power up the glycol chiller using the red paddle switch to the left of the temperature controller.
6. To adjust the glycol reservoir's set temperature:
  - Press "SET" button.
  - Use the Up/Down buttons and navigate menus until "SET" menu appears. Press "SET" button.
  - Use the Up/Down buttons to adjust temperature to a range between 28°F - 32°F. Press "SET" button to set temperature.
7. To change controller between Celsius and Fahrenheit:
  - Hold "SET" button for 5 seconds.
  - Use the Up/Down buttons and navigate to "PA2" menu and press "SET" button.
  - Use the Up/Down buttons and set to "15" and press "SET" button.
  - Use the Up/Down buttons and navigate to "Di5" menu and press "SET" button.
  - Use the Up/Down buttons and navigate to "Dro" menu and press "SET" button.
  - 0 = Celsius / 1 = Fahrenheit. Press "SET" button.
  - Press the "STAND BY" multiple times to back out of all the menus.
8. Keep in mind that your individual results, and maximum delta between reservoir temperatures and vessel temperatures may vary. Factors such as ambient temperatures, efficiency losses, and tubing length can contribute to these effects.



KEYS	
	<p><b>UP</b></p> <p>Press and release to:</p> <ul style="list-style-type: none"> <li>- Scroll through menu items</li> <li>- Increase values</li> </ul> <p>Press and hold for at least 5 secs</p> <ul style="list-style-type: none"> <li>- Activates Manual Defrost function</li> </ul>
	<p><b>DOWN</b></p> <p>Press and release to:</p> <ul style="list-style-type: none"> <li>- Scroll through menu items</li> <li>- Decreases values</li> </ul>
	<p><b>STAND-BY (ESC)</b></p> <p>Press and release to:</p> <ul style="list-style-type: none"> <li>- Go back to previous menu level</li> <li>- Confirm parameter value</li> </ul> <p>Press and hold for at least 5 secs</p> <ul style="list-style-type: none"> <li>- Activates Stand-by (OFF) function (from outside menus)</li> </ul>
	<p><b>SET (ENTER)</b></p> <p>Press and release to:</p> <ul style="list-style-type: none"> <li>- Displays any alarms (if active)</li> <li>- Open Machine Status menu</li> </ul> <p>Press and hold for at least 5 secs to:</p> <ul style="list-style-type: none"> <li>- Open programming menu</li> <li>- Confirm commands</li> </ul>



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