

Aquachill Refrigerator

Set-Up

1

Place the stainless steel tube (the rectangular loop) inside the tank at the back. Completely submerge under water. It is attached to the compressor (motor) with foam covered copper tubing. This should be gently maneuvered outside the tank. Do **not bend** this connector tubing as it is very fragile.



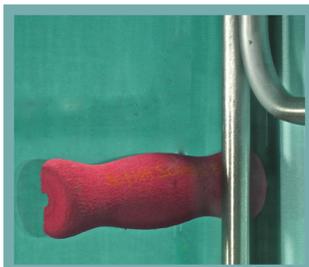
2

Keep the steel tubing off the gravel and away from the glass. This will prevent alevin or fry from freezing to the metal.



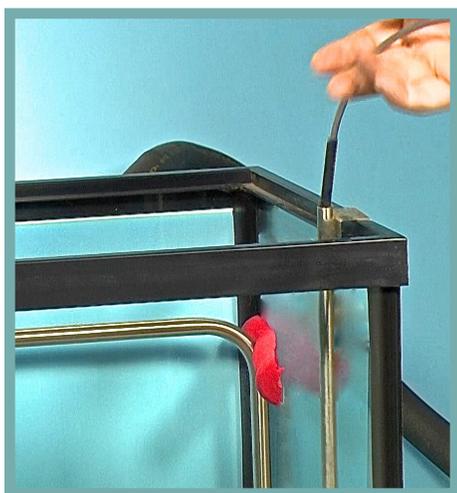
3

To stabilize this position in the tank, use clean foam blocks or an *Action BC* hand grip. This one has been cut in half and wedged between the cooling tube and the glass on each side of the tank.



Thermostats

The thermostat is placed inside the tank. It regulates water temperature and turns the refrigerator on and off according to the temperature that is set.



4

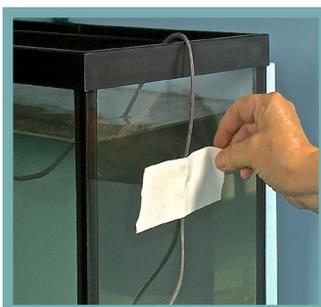
Some thermostats have thin metal probes which need to be kept dry. Hang the metal case provided on the inside of the tank away from the cooling tubes. Slide the probe inside the case and push to the bottom.



New thermostats have plastic casings. Use the suction cups provided to attach it to the inside of the tank away from the cooling tubes.

5

Tape the thermostat cord to the outside of the tank so it remains inside the case. To prevent condensation inside the case cut a small hole in tank lid just above its position.

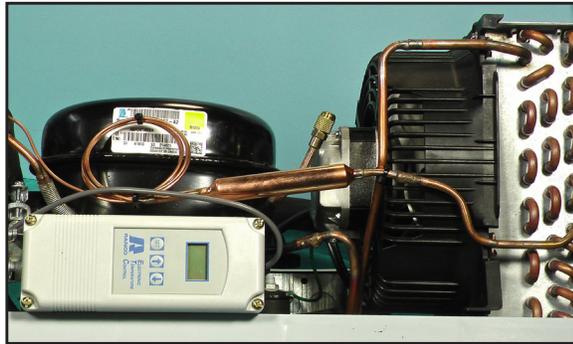


Purchase or Repairs

Aquachill Industries Vernon, B.C.
Ron Coutts 1 (250) 549-1670
rgcoutts@telus.net

To enquire about repairs have the model number of the unit ready.

Aquachill Digital Settings



When the thermostat is in the water the digital readout displays the present temperature.

Settings

1	C or F	Celcius or Fehrenheit
2	S1	Setpoint - the temperature of the water
3	DIF1	Differential - degrees the temperature will vary
4	C1 or H1	Chilling or Heating mode

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1 Press SET button: C or F should blink in the top left corner, use up/down arrows to set at Celcius.


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2 Press SET button again: S1 will blink in the top left corner, use up/down arrows to set water temperature.


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3 Press SET button again: DIF1 will blink in the top left corner, use up/down arrows to set differential at 2.


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4 Press SET button again: C1 should be blinking, use up/down arrows to set at C1 for chilling mode.



The settings are saved automatically. If no buttons are pressed for 30 seconds the digital readout will return to displaying the present tank water temperature.

How it Works

If the SP is set at 6°C, and the differential at 2 . . .

- ◆ The refrigerator will **TURN ON** – chill the water to 6°C – then **TURN OFF**.
- ◆ When the water **warms to 8°C** – the refrigerator will **TURN ON** - and again chill the water down to 6°C.
- ◆ This cycle repeats as long as the chiller is plugged in and the thermostat is in the water.

Safety: Attach to a Ground Fault plug or a portable ground fault cord. This will interrupt the power if moisture is present, and the refrigerator will turn off and remain off until the Reset Button on the ground fault is pushed.

Trouble Shooting

Problem: Ice is forming on the steel tubing.

✎ **Check** that the outflow from the Filter is directed towards the cooling tubing to create a current.

Problem: The refrigerator never turns off.

✎ **Check** that the thermostat is below the water line and has not withdrawn from the metal casing.

Problem: The refrigerator turns on frequently.

✎ **Check** that the tank is tightly covered with insulation, only removing the front at the fry stage.

Problem: The refrigerator motor is over heating.

✎ **Check** that the fan is clean of dust and has access to air (do not place fan against walls or the motor in cupboards).