

Aquachill Refrigerator

Set-Up

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 OVERLY BEND this connector tubing as it is very fragile.



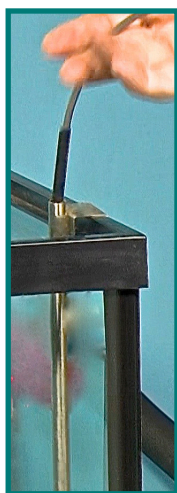
Keep the steel tubing **off** the gravel and **away** from the glass. This will prevent alevin or fry from freezing to the metal tube.



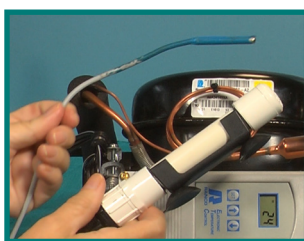
Place the metal bracket on the **inside back of the tank glass** and hang from the rim. Place cooling tube in bottom U-shaped loop. It will hold metal tubing away from the bottom and sides of the glass.

Thermostat

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



Older style thermostats have to be kept dry inside a metal casing. Hang the case on the inside of the tank away from the cooling tubes. Slide the probe inside the metal case and push to the bottom.

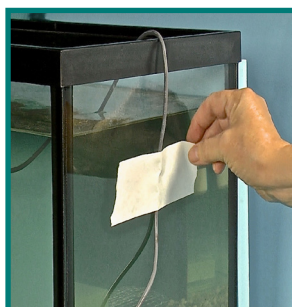


Example of an older style thermostat and a newer casing which it encloses.



New thermostats have plastic casings. Attach the suction cups to the inside of the tank away from the cooling tubes.

Tape the older style thermostat cord to the outside of the tank so it remains **inside the tank** and **in the water**. To prevent condensation allow space between case and the lid.

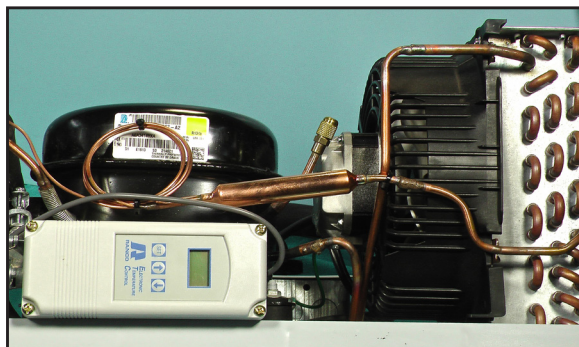


Purchase or Repairs

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

To enquire about repairs refer to the serial number of the unit.

Aquachill Settings



The digital readout displays the present temperature when the thermostat is in the water.

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
5	D1 or D2	Timed delay before unit reads temperature (new units)



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



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



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



Press **SET** button again, **C1** should be blinking, use up/down arrows if needed to set for chilling.



The latest models have a **DELAY** setting of 1 or 2 - when first plugged in there is a 1 or 2 minute delay before the thermostat begins reading the temperature.

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).

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