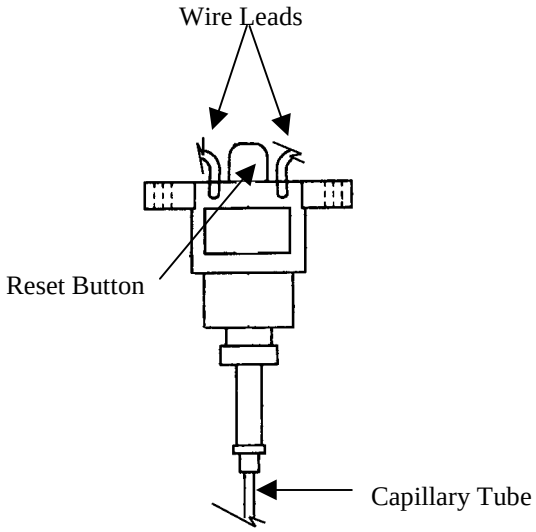
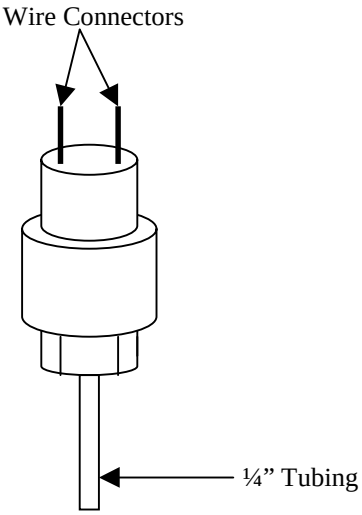
SERVICE COMMUNICATOR

Subject: Automatic High Pressure Cut-out Control

The High Pressure Cutout Control (HPCO) disconnects main line voltage (L1) to the ice machine control board when subjected to excessive high side pressure. The switch is normally closed and opens on an increase in pressure.
The present manual reset HPCO has been replaced by an automatic reset HPCO.
Cut-in (close) and cut-out (open) values remain the same for both controls, although physical appearance, location and operation change. Do not replace a defective manual re-set HPCO with an automatic reset HPCO. Exact replacement of defective controls is necessary, for repairs in and out of warranty.
Cut-In 300psig +/- 10.
Cut-Out 450 psig +/- 10.



Manual Reset HPCO
Part Number 23-5536-9



Auto Reset HPCO
Part Number 23-5541-3

The manual reset HPCO mounts on the bulkhead behind the water distribution tube. A capillary tube connects the HPCO to the discharge line strainer to obtain high side system pressure. When pressure in excess of 450 psig is encountered the HPCO trips (opens). The HPCO latches (locks open) and the ice machine remains off until:

- The high side system pressure falls below 300 psig, and the red reset button is manually depressed. This resets the HPCO, starting a new freeze sequence.

The automatic reset HPCO is located on the discharge line strainer and does not extend to the bulkhead. When pressure in excess of 450 psig is encountered the HPCO trips (opens). The HPCO latches (locks open) and the ice machine remains off until:

- When the high side system pressure falls below 300 psig, the HPCO automatically resets, starting a new freeze sequence.

Check Procedure

The check procedure remains the same for both styles of HPCO.

1. Set ICE/OFF/CLEAN switch to OFF, reset manual reset high pressure control if tripped.
2. Connect manifold gauges.
3. Hook voltmeter in parallel across the HPCO, leaving wires attached.
4. A Water-cooled models: Close the water service valve to the water condenser inlet.
   B Self-contained air-cooled and remote models: Disconnect the fan motor.
5. Set ICE/OFF/CLEAN switch to ICE.
6. No water or air flowing through the condenser will cause the HPCO control to open because of excessive pressure. Watch the pressure gauge and record the cut-out pressure.

⚠ WARNING

If discharge pressure exceeds 460 psig and the HPCO control does not cut out, set ICE/OFF/CLEAN switch to OFF to stop ice machine operation.

Replace the HPCO control if it:

- Will not reset (below 300 psig)
- Does not open at the specified cut-out point

Replacing High Pressure Control

The replacement procedure remains the same for both styles of HPCO.

1. Disconnect power to the ice machine.
2. Position pinch-off tool around tubing below weld joint of 2" extension. Clamp down on tubing until pinch off is complete.
3. Leaving pinch-off tool in place, cut HPCO control tubing with a small tubing cutter.
4. Wrap the HPCO control with a wet rag and silver solder to the tubing.
5. Allow solder to cool, then remove pinch-off tool.
6. Re-round tubing by positioning the wide angle of the pinched tubing into the corresponding diameter hole in the pinch-off tool. Tighten the wing nuts until the block is tight and the tubing is rounded.

NOTE: Pressure controls will operate normally once the "pinched off" tubing is re-rounded. (Tubing may not re-round 100%)

