LOW PRESSURE CONTROL REPLACEMENT

Installation Instructions

This Applies to CVD Condensing Units Only - Disregard This Information for All Other Models

This applies to CVD condensing units with any of the following failures:

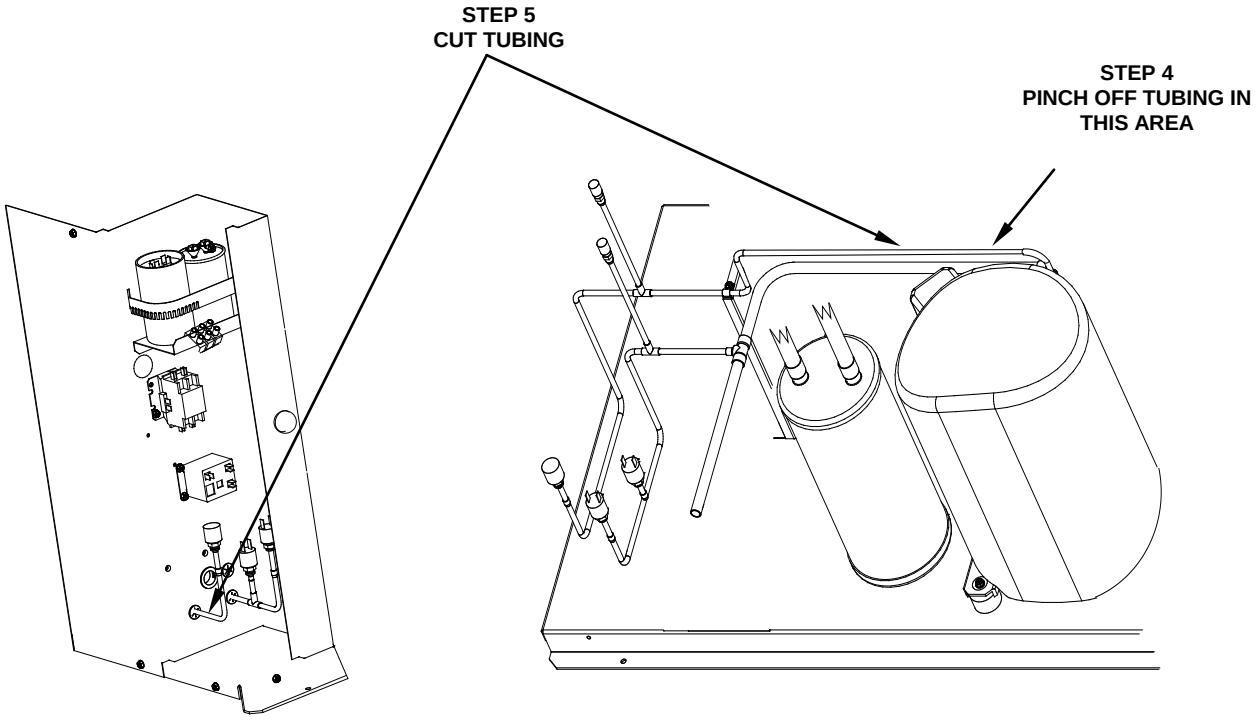
- Contactor
- Low pressure control

Refrigeration oil might be present in the tubing below the low-pressure cutout (LPCO). Refrigeration oil in the LPCO tubing can cause rapid cycling of the contactor and premature contact failure. As a precaution, anytime one of these components is replaced (contactor or LPCO), the LPCO must be relocated. Replacing and moving the LPCO will eliminate the possibility of reoccurrence.

A PINCH-OFF TOOL IS REQUIRED FOR THIS PROCEDURE:

Removing the refrigerant charge is not necessary.

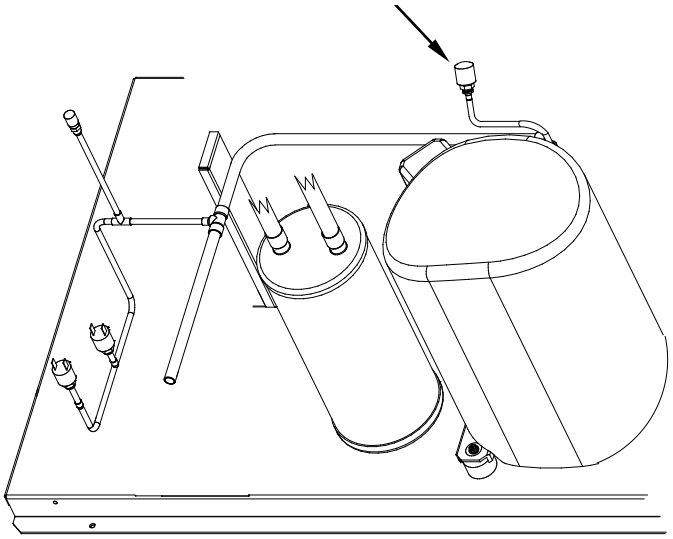
1. Disconnect power to the condensing unit.
2. Remove top, left side, control box, and front panels.
3. Disconnect LPCO wires from contactor coil and HPCO.
4. Pinch off 1/4" tubing at location shown in drawing.
5. Cut 1/4" tubing at two locations (refer to drawing).



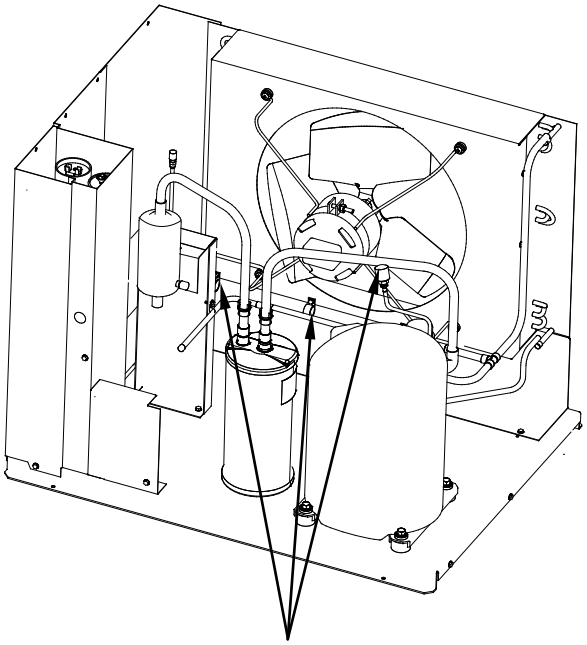
Manitowoc Ice, Inc.
2110 South 26th Street, P.O. Box 1720, Manitowoc, WI 54221-1720 USA
Telephone 920-682-0161, Fax - Sales: 920-683-7589, Service/Parts: 920-683-7585, Other: 920-683-7879
Web Site - www.manitowocice.com

6. Use tubing bender to bend tubing 90° (vertical up). Cut to final length (2"), swage tubing, fit new 60" lead LPCO in position and braze.

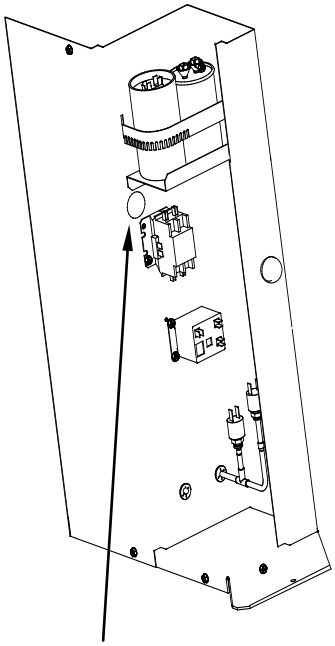
STEP 6
BEND TUBING 90°
CUT TO FINISHED LENGTH (2") AND SWAGE
BRAZE LPCO



7. Remove pinch-off tool, round tubing, and check for refrigerant leaks.
8. Route wires through P clips (with compressor and condenser fan motor wiring) to control box. Connect LPCO wires to HPCO and contactor coil (wiring connections remain the same).
9. Restore power to the CVD condensing unit and test cycle LPCO switch.



STEP 8
ROUTE WIRING THROUGH P CLIPS TO THE CONTROL BOX.



STEP 8
ROUTE WIRING INTO CONTROL BOX. ATTACH WIRE ENDS TO HPCO AND CONTACTOR COIL. (WIRING CONNECTIONS REMAIN THE SAME)