MANITOWOC ICE
2110 SOUTH 26TH STREET, MANITOWOC, WI 54220

800-545-5720
WWW.MANITOWOCICE.COM

Instruction Sheet

Subject: Compressor Replacement Instructions

IT1900 WATER-COOLED CONVERSION KIT

DANGER

Disconnect electric power to the ice machine at the electric switch box before proceeding. Failure to disconnect the power at the main power supply disconnect could result in serious injury or death. The power switch DOES NOT disconnect all incoming power

⚠Warning

This equipment contains refrigerant charge. Procedures must be performed by a properly trained and certified refrigeration technician aware of the dangers of dealing with refrigerant charged equipment.

⚠Warning

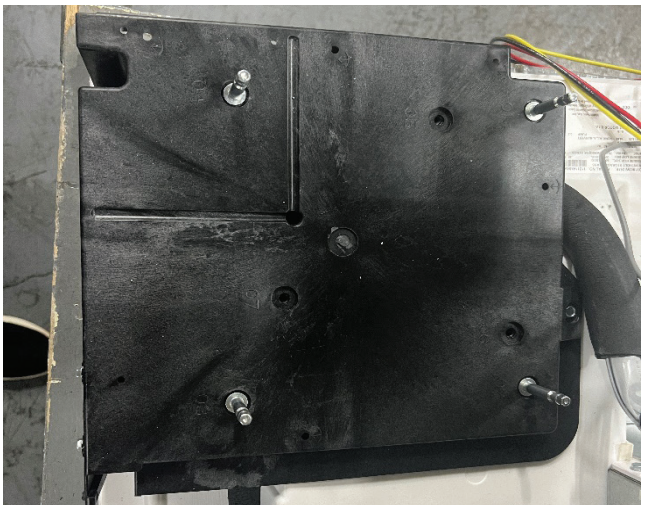
Authorized Service Representatives are obligated to follow industry standard safety procedures, including, but not limited to, local/national regulations for disconnection / lock out / tag out procedures for all utilities including electric, gas, water and steam.

The table below lists the items used for compressor replacement. Refer to your specific model in the following pages.

Parts Included	
Compressor 208-230V/60Hz/1Ph	Thermistor 0.5” Insulation Boot
Control Box Wiring Harness 208-230V/60Hz/1Ph	Thermistor 0.5” Tube Spring Clip
Compressor Wiring Harness Molded Plug	Insulation TXV Boot
Compressor Grommet	Insulation Boot TXV Bulb
Stand-off Stud	Insulation Tube 0.5” x 0.25” x 8.5”
Washer	Insulation Tube 0.751” x 0.38” x 30.00”
Retaining Clip	Cable Tie
Run Capacitor 208-230V/50-60Hz/1Ph	Wiring Diagram
PTCR	
PTCR Mounting Bracket	
TXV	
Filter Drier	
Harvest Valve (body only)	
Copper Tubing 0.25” x 9.13”	
Copper Tube 0.375” x 30 Degree	
Copper Tube 0.38” X 1.625” Straight	
Copper Tubing 0.5” x 38.86”	
Copper Tubing 0.5” x 7.84”	
Copper Tubing 0.5” x 7.86”	
Copper Tubing 0.625” x 10.75”	
“T” Fitting 0.5” x 0.5” x 0.5”	
“T” Fitting 0.5” x 0.375” x 0.375”	

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1. Install stand off studs on compressor mount holes.



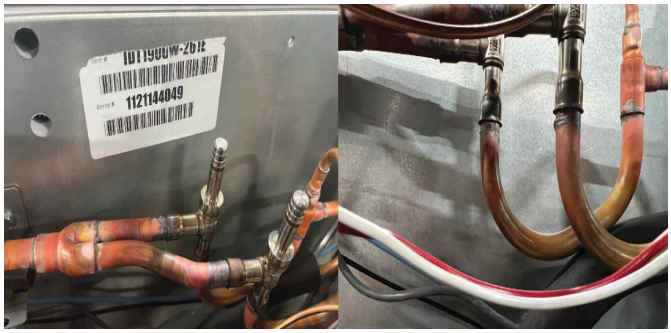
2. Install compressor grommets on compressor and compressor on mounts using washers and retaining clips.
3. Install and braze 2 new TXVs.
   A. Install left circuit TXV (back right side) with copper tubing (0.375” x 30 Degree) and “T” fitting (0.5” x 0.375” x 0.375”). Insulate TXV with boot and cable tie. Insulate bulb with TXV bulb insulation boot and cable tie.



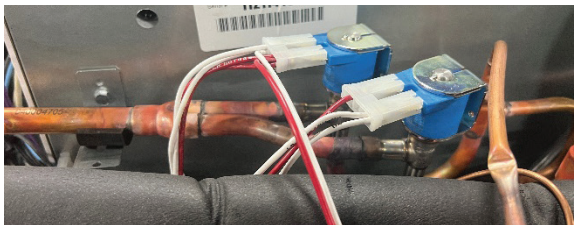
   B. Install right circuit TXV (back left side) with copper tubing (0.38” x 1.625” Straight) and “T”fitting (0.5” x 0.375” x 0.375”). Insulate TXV with boot and cable tie. Insulate bulb with TXV bulb insulation boot and cable tie.



4. Install harvest valves.
   A. Braze valves in accordance with the pictures below:



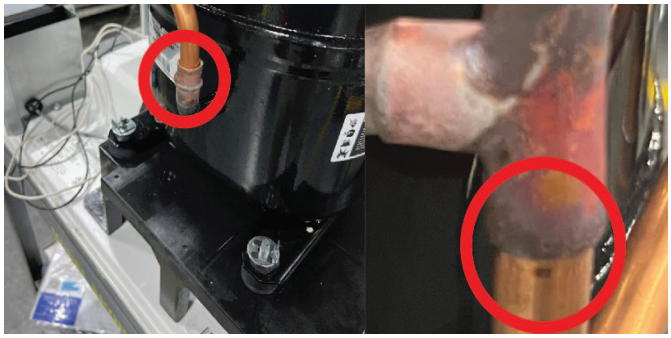
   B. Reuse and install coils onto the valve.



5. Install and braze discharge copper tubing (0.625” x 10.75”) to discharge of the compressor and inlet of the heat exchanger. Place insulation tube (0.751” x 0.38” x 30.00”) on copper tubing (0.625” x 10.75”).



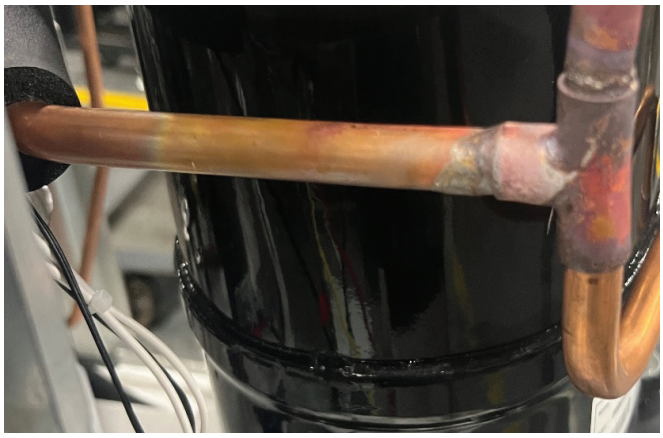
6. Install and braze discharge copper tubing (0.5” x 7.84”) to compressor discharge and to “T” fitting (0.5” x 0.5” x 0.5”).



7. Install and braze copper tubing (0.5” x 7.86”) to the top of “T” fitting (0.5” x 0.5” x 0.5”) and to the inlet side of the manifold strainer.



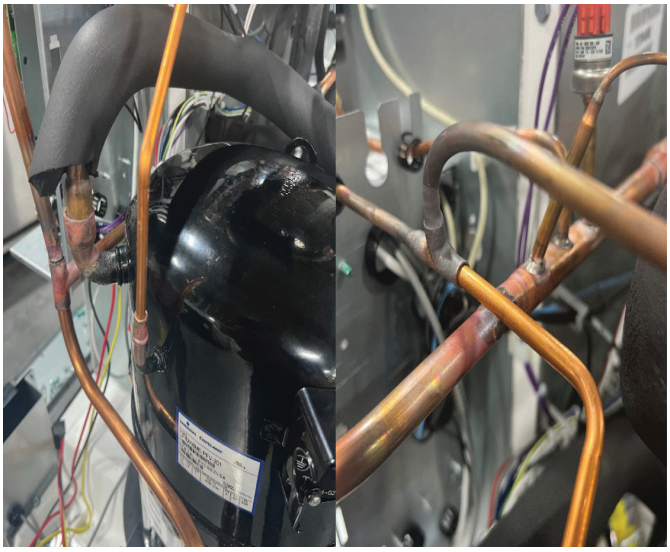
8. Install and braze copper tubing (0.5” x 38.86”) to horizontal part of the “T” fitting (0.5” x 0.5” x 0.5”).



9. Install and braze the other end of copper tubing (0.5” x 38.86”) to the water-cooled condenser. Place insulation tube (0.5” x 0.25” x 8.5”) on copper tubing (0.5” x 38.86”).



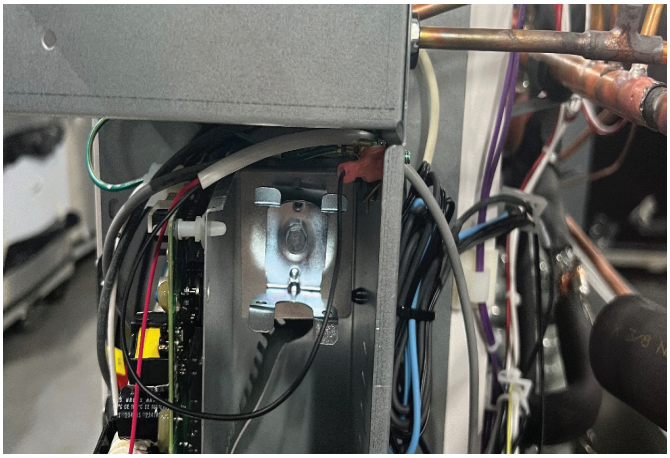
10. Install and braze copper tubing (0.25” x 9.13”) to suction access of the compressor and reconnect the suction side schrader.



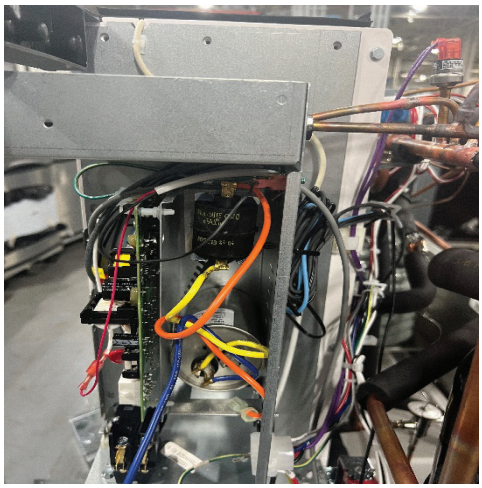
11. Install and braze filter drier.



12. Install PTCR mounting bracket in control box.



13. Install PTCR and run capacitor.



14. Install compressor wiring harness molded plug to compressor.



15. Reclamp T2 thermistor on compressor discharge line with thermistor 0.5” tube spring clip and thermistor 0.5” insulation boot.
16. Rewire unit in accordance with the new wiring diagram. Install the new wiring diagram over the old wiring diagram.
17. Recharge the unit in accordance with the refrigerant charge tag.