MANITOWOC ICE
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Instruction Sheet

Subject: Compressor Replacement Instructions

CONVERSION KIT 000015731
I1800, CVDF1400, CVDF1800, CVDF2100 MODELS

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.

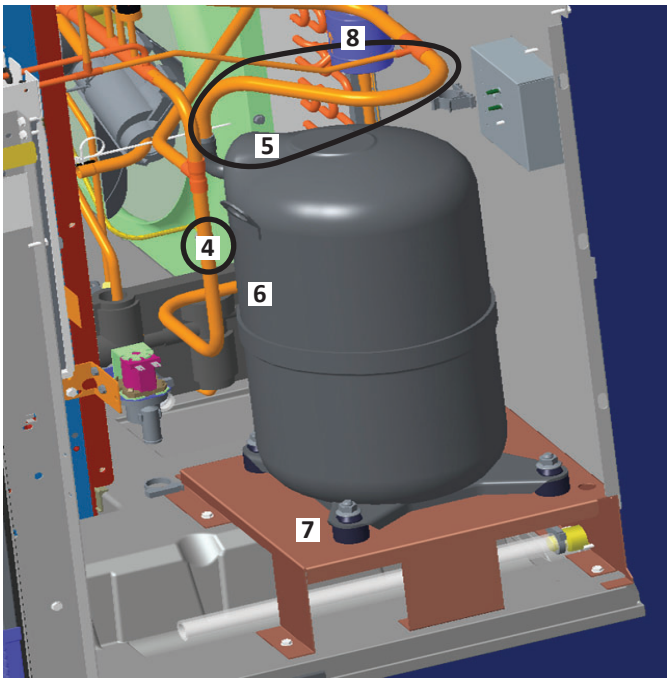
⚠Warning

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.

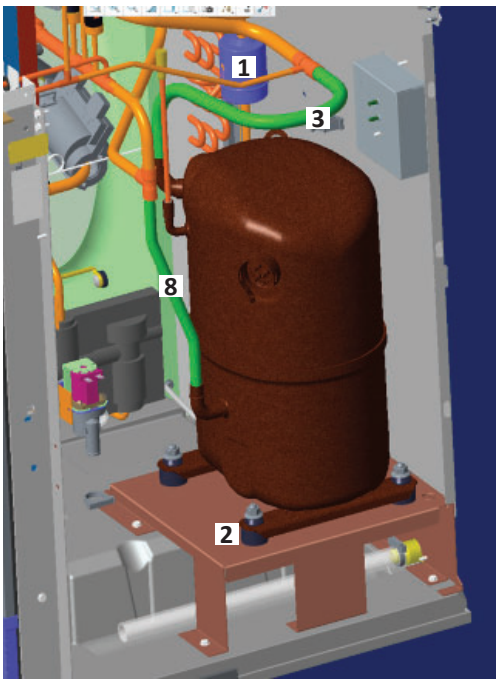
Description	CVDF2100	CVDF1400 CVDF1800	I1800		
	CVD Remote Condensing Unit	CVD Remote Condensing Unit	Air-Cooled	Water-cooled	Remote Air-cooled
.75 x .625 Reducer	X	X			
Tube-Cop .625 OD 13" Long	X		X	X	X
Coupling .50	X				
Bushing Flush .375 x .250	X	X	X	X	X
Tube-Cop .50 x 14"	X	X	X	X	X
Template Drilling	X				
Copeland Harness	X	X	X	X	X
Schrader Valve	X	X	X	X	X
P-Clamp	X	X			
Screw	X	X			
Wiring Harness Sleeve	X	X			
Elbow .50		X			
Coupling .75 x .75		X			
Instructions	X	X	X	X	X
Tube Cop .75 x 3.00		X			

I1800 Air, Water-cooled, Remote - Remove Compressor



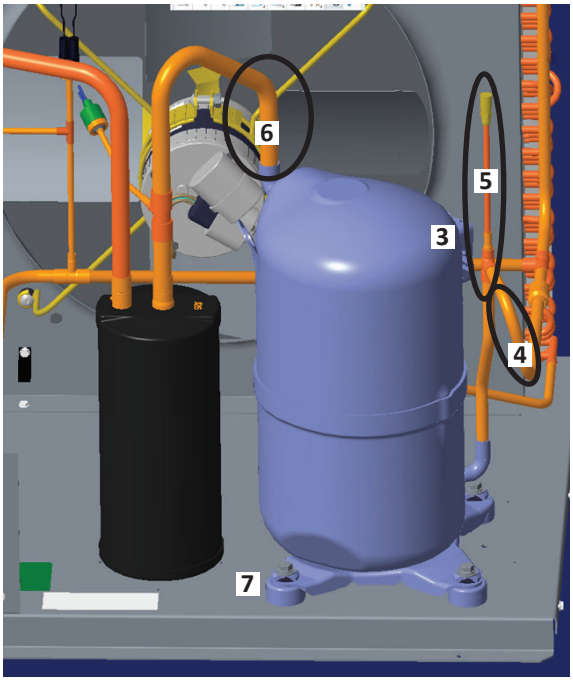
1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Remove discharge line thermistor and insulation.
5. Remove suction line at tee and compressor suction port. Protect the heat exchanger with a damp cloth when heating the suction line.
6. Remove discharge line from compressor.
7. Remove compressor and mounting feet.
8. Remove liquid line filter drier.

I1800 Air, Water-cooled, Remote - Install Compressor



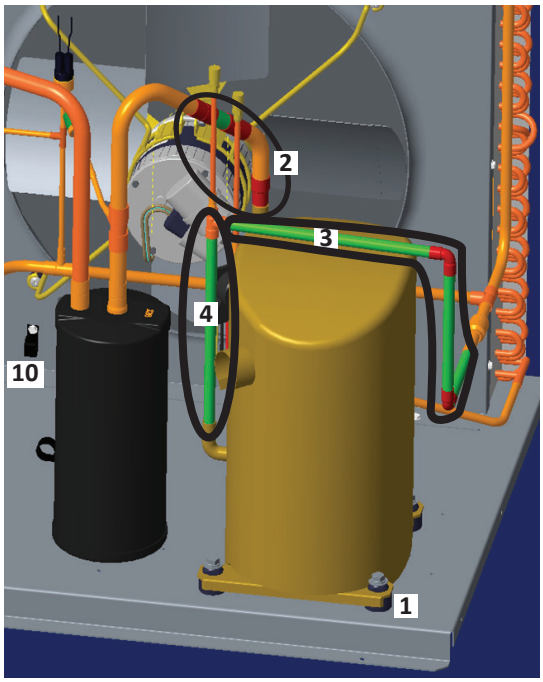
1. Assemble and braze liquid line drier.
2. Install feet and secure compressor to base.
3. Hand assemble 5/8” tube to suction line tee and compressor suction port.
4. Fit 1/2” discharge line to the compressor discharge port and discharge line tee.
5. Braze all joints while purging with nitrogen, then pressure test with 250 psig nitrogen.
6. Evacuate to a minimum of 500 microns.
7. Wire compressor.
8. Reinstall thermistor and insulate.
9. Weigh in nameplate refrigerant charge.

CVDF1400 or CVDF1800 Remote Condensing Unit - Remove Compressor



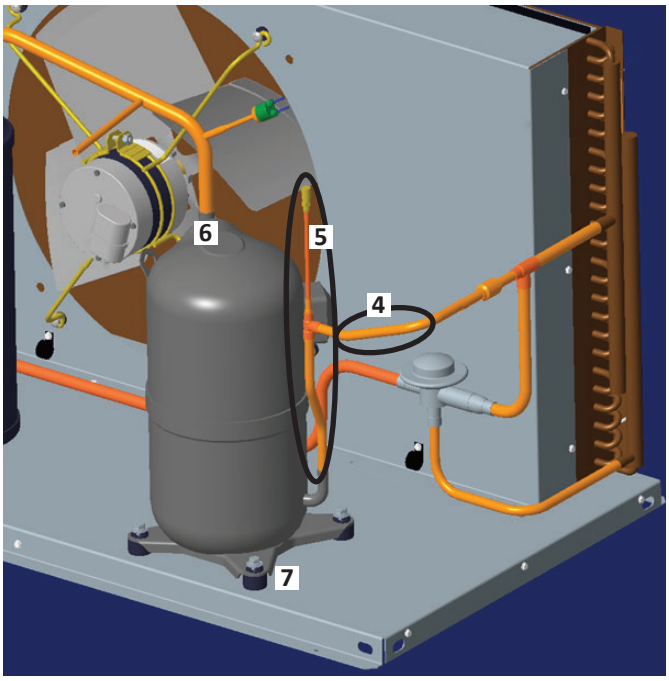
1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Cut discharge line to remove u-bend.
5. Remove access fitting and tee from compressor discharge port.
6. Cut suction line and remove from compressor suction port.
7. Remove compressor and mounting feet

CVDF1400 or CVDF1800 Remote Condensing Unit - Install Compressor



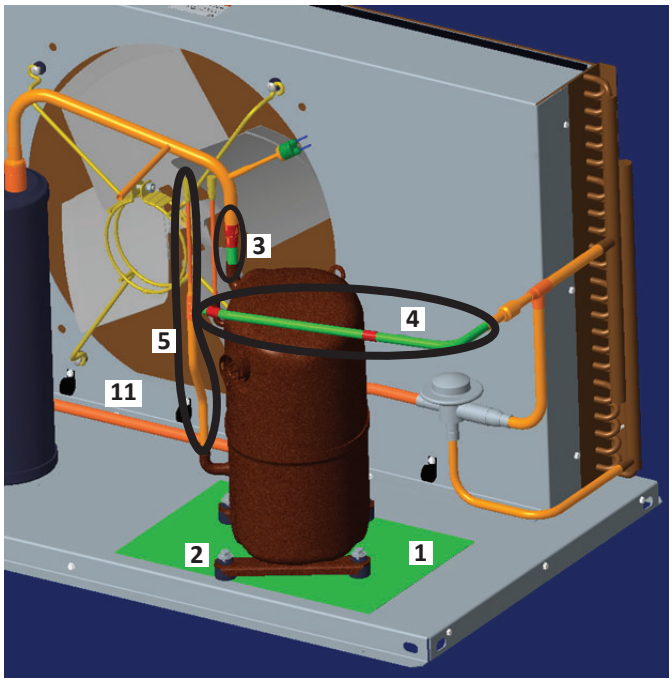
1. Install feet on compressor and place compressor on base and secure.
2. Hand assemble 3/4” coupling, 3/4” tube, 3/4” coupling 3/4” tube and 3/4” x 5/8” reducer coupling and fit to suction line and compressor suction port.
3. Fit and hand assemble two 1/2” 90º elbows and tubing to discharge line.
4. Fit and hand assemble tubing, to tee removed in step 5 and fit to discharge line and compressor discharge port.
5. Fit schrader valve to compressor access port.
6. Braze all joints while purging with nitrogen.
7. Remove, replace and braze liquid line filter drier.
8. Pressure test system with 250 psig nitrogen.
9. Evacuate to a minimum of 500 microns.
10. Wire compressor:
    A. Cover compressor wiring harness with protective sleeve.
    B. Route wiring along base to control box.
    C. Secure wiring harness to base with P clamps to avoid contact with components.
11. Weigh in nameplate refrigerant charge.

CVDF2100 Remote Condensing Unit - Remove Compressor



1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Cut discharge line to remove the bend in the tubing.
5. Remove access fitting and tee from compressor discharge port.
6. Unbraze tubing from compressor suction port.
7. Remove compressor and mounting feet

CVDF2100 Remote Condensing Unit - Install Compressor



1. Place template on base and drill holes for compressor mounting.
2. Install feet on compressor and place compressor on base and secure.
3. Hand assemble 3/4” x 5/8” coupling and 5/8” tube and fit to suction line and compressor suction port.
4. Fit and hand assemble two 1/2” couplers and insert tubing into discharge line.
5. Fit and hand assemble tubing to tee removed in step 5 and fit to discharge line and compressor discharge port.
6. Fit schrader valve to compressor access port.
7. Braze all joints while purging with nitrogen.
8. Remove, replace and braze liquid line filter drier.
9. Pressure test system with 250 psig nitrogen.
10. Evacuate to a minimum of 500 microns.
11. Wire compressor:
    A. Cover compressor wiring harness with protective sleeve.
    B. Route wiring along base to control box.
    C. Secure wiring harness to base with P clamps to avoid contact with components.
12. Weigh in nameplate refrigerant charge.