MANITOWOC ICE
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Instruction Sheet

Subject: Compressor Replacement Instructions

CONVERSION KIT 000015723
MODELS IF0600, IF0900

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.

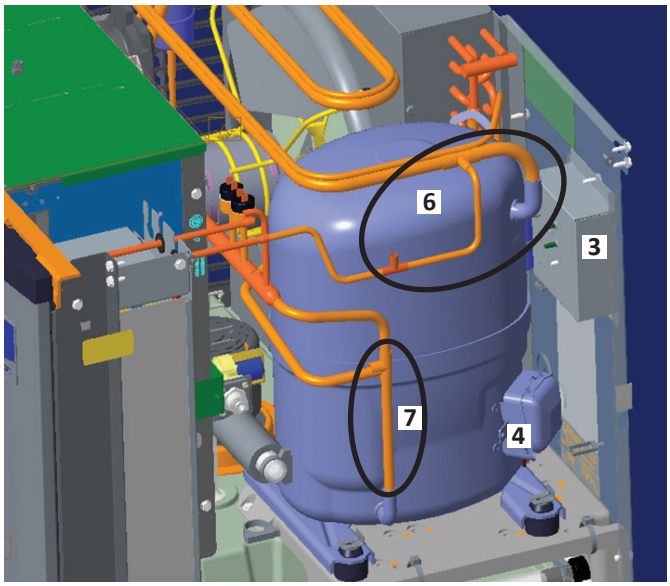
⚠Warning

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.

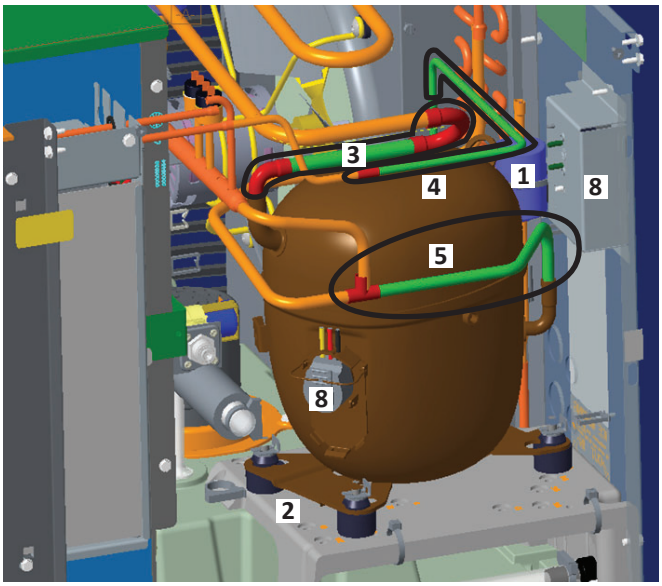
Description	IF0600				IF0900			
	Air-Cooled	Water-cooled	Remote Air-cooled	CVD remote Condensing Unit	Air-Cooled	Water-cooled	Remote Air-cooled	CVD remote Condensing Unit
1/4” x 24” Copper tubing	X	X	X					
1/4” Schrader valve suction process tube				X	X	X	X	X
1/4” x 1/4” Coupling	X	X						
1/4” x 3/8” x 3/8” Tee				X				X
1/4” x 3/8” Reducing coupling			X					
3/8” x 11” Copper tubing				X				X
3/8” Coupling				X				
3/8” Preformed discharge tube	X	X	X		X	X	X	
3/8” x 3/8” x 3/8” Tee	X	X	X		X	X	X	
3/8” X 1/2” Reducing Coupling								X
1/2” 90º Street elbow	X	X	X	X	X	X	X	X
1/2” X 19.25” Copper tubing	X	X	X	X	X	X	X	X
1/2” 90º Elbow				X				X
1/2” 180º U Bend	X	X	X					
1/2” x 5/8” Reducing coupling								X
1/2” x 20” Armaflex insulation	X	X	X	X	X	X	X	X
7/8” Heyco bushing	X	X	X					
Junction box	X	X	X					
Wiring harness for air, water or remote models	X	X	X		X	X	X	
Wiring harness for remote condenser models (CVD)				X				X

IF0600 Air or Water-cooled models - Remove Compressor

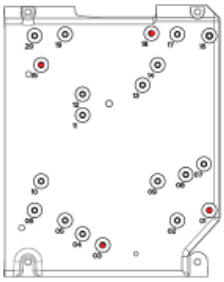


1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove electrical junction box.
4. Remove wiring from compressor.
5. Remove discharge line thermistor and insulation.
6. Remove suction line and tee, then process tube tee and tubing. Protect the heat exchanger with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

IF0600 Air or Water-cooled models - Install Compressor

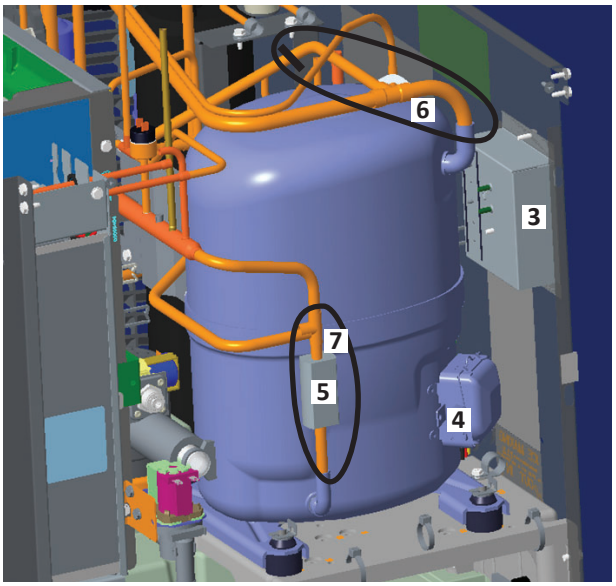


1. Assemble and braze liquid line drier.
2. Move existing mounting pins to holes labeled 1-3-15-18.



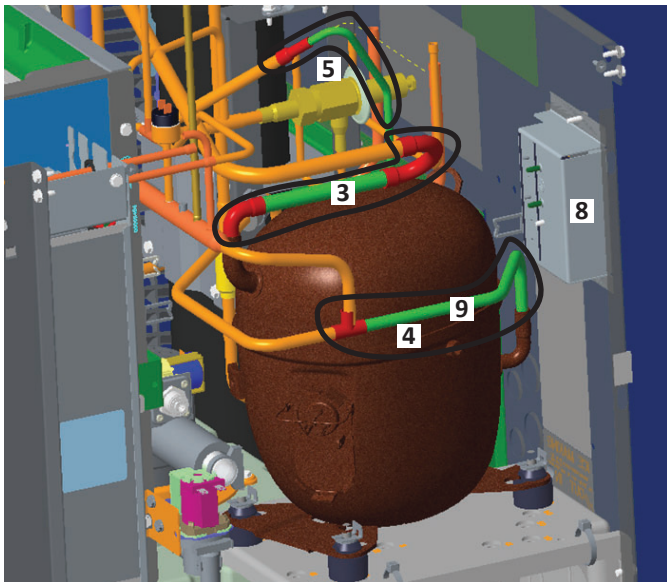
3. Install feet and secure compressor to base.
4. Hand assemble 1/2” street elbow, tube and u bend and fit to suction line and compressor suction port.
5. Hand assemble 1/4” tube with 1/4” x 1/4” coupler and fit to compressor access port and suction access fitting.
6. Install compressor discharge tube and tee.
7. Braze all joints while purging with nitrogen, then pressure test with 250 psig nitrogen.
8. Evacuate to a minimum of 500 microns.
9. Install electrical junction box and wire compressor.
10. Install thermistor and insulate at this location.
11. Weigh in nameplate refrigerant charge.

IF0600 Remote Air-cooled - Remove Compressor



1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove electrical junction box.
4. Remove wiring from compressor.
5. Remove discharge line thermistor and insulation.
6. Cut suction line as indicated in photo, then remove suction line and tee. Protect the heat exchanger with a damp cloth when heating the suction line.
7. Remove discharge line, tee and tubing.
8. Remove compressor and mounting feet.
9. Remove liquid line filter drier.

IF0600 Remote Air-cooled - Install Compressor



1. Assemble and braze liquid line drier.
2. Move existing mounting pins to holes labeled 1-3-15-18.

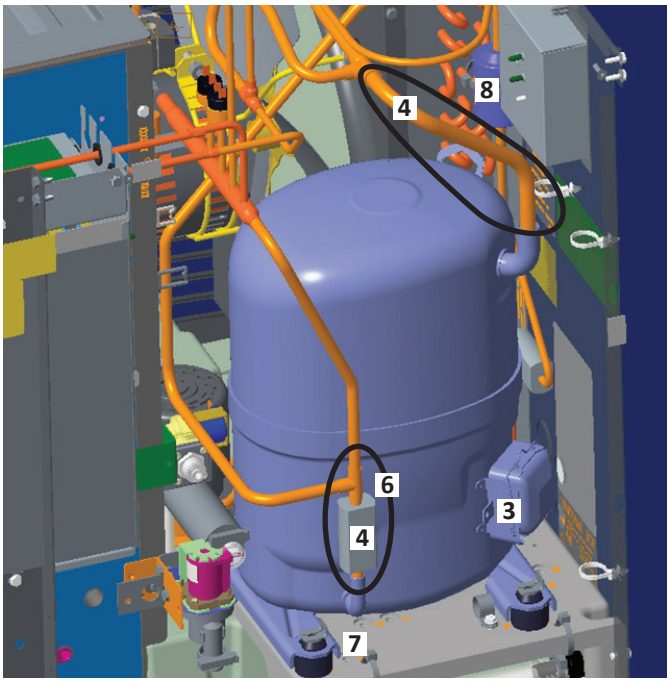


3. Install feet and secure compressor to base.
4. Hand assemble 1/2” street elbow, tube and u bend and fit to suction line and compressor suction port.
5. Hand assemble 3/8” tube with 3/8” x 3/8” x 3/8” tee and fit to:

- Compressor discharge port
- Discharge tubing to condenser
- High side manifold tubing

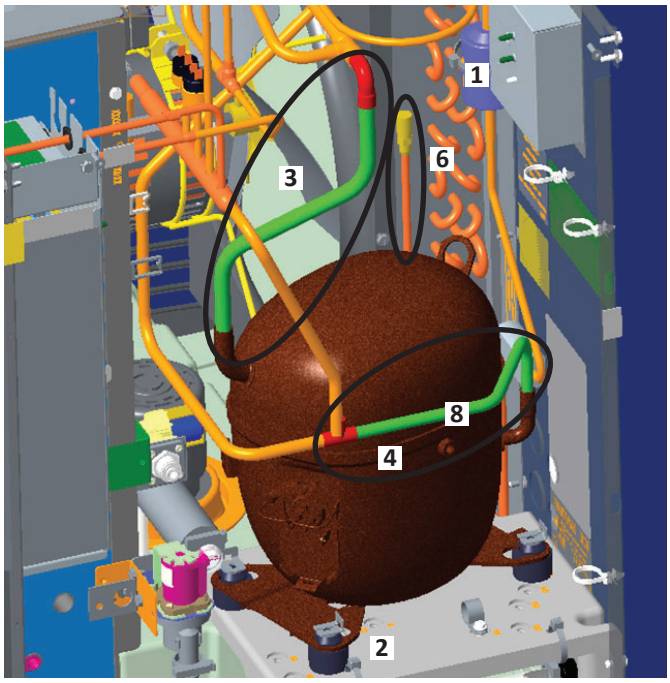
6. Hand assemble 1/4” tubing to 1/4” x 3/8” reducing coupling and compressor access port.
7. Braze all joints while purging with nitrogen, then pressure test with 250 psig nitrogen.
8. Evacuate to a minimum of 500 microns.
9. Install electrical junction box and wire compressor.
10. Install thermistor and insulate on the discharge line at the location indicated in the graphic.
11. Weigh in nameplate refrigerant charge.

IF0900 Air, Water-cooled, Remote - Remove Compressor

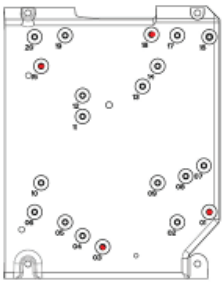


1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Remove discharge line thermistor and insulation.
5. Remove suction line at tee and compressor suction port. Protect the heat exchanger with a damp cloth when heating the suction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

IF0900 Air, Water-cooled, Remote - Install Compressor



1. Assemble and braze liquid line drier.
2. Move existing mounting pins to holes labeled 1-3-15-18.

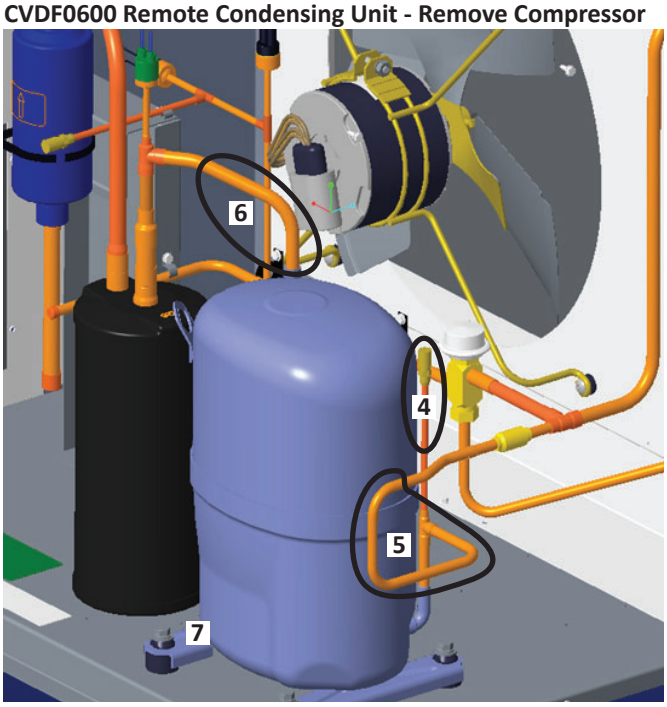


3. Install feet and secure compressor to base.
4. Hand assemble 1/2” street elbow and 1/2” tube, then fit to suction line tee and compressor suction port.
5. Hand assemble 3/8” tube with 3/8” x 3/8” x 3/8” tee and fit to:

- Compressor discharge port
- Discharge tubing to condenser
- High side manifold tubing

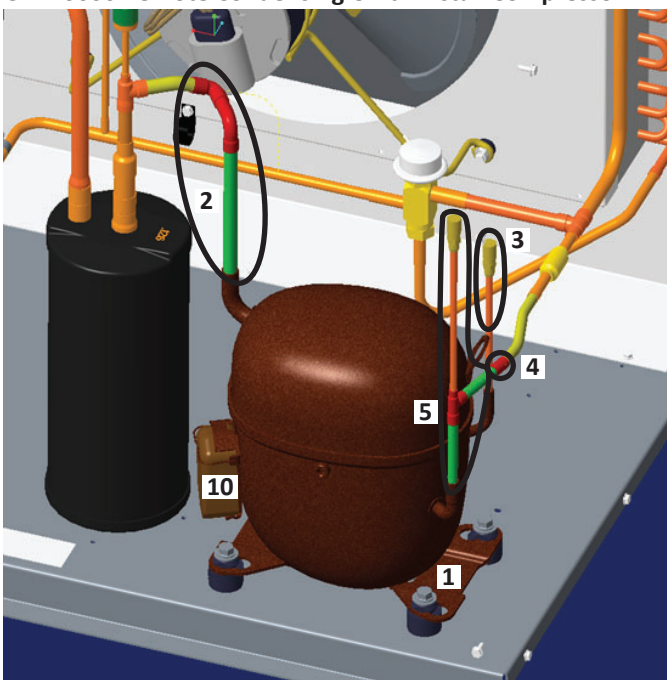
6. Install access fitting in compressor access port.
7. Braze all joints while purging with nitrogen, then pressure test with 250 psig nitrogen.
8. Evacuate to a minimum of 500 microns.
9. Wire compressor.
10. Install thermistor and insulate at this location.
11. Weigh in nameplate refrigerant charge.

CVDF0600 Remote Condensing Unit - Remove Compressor



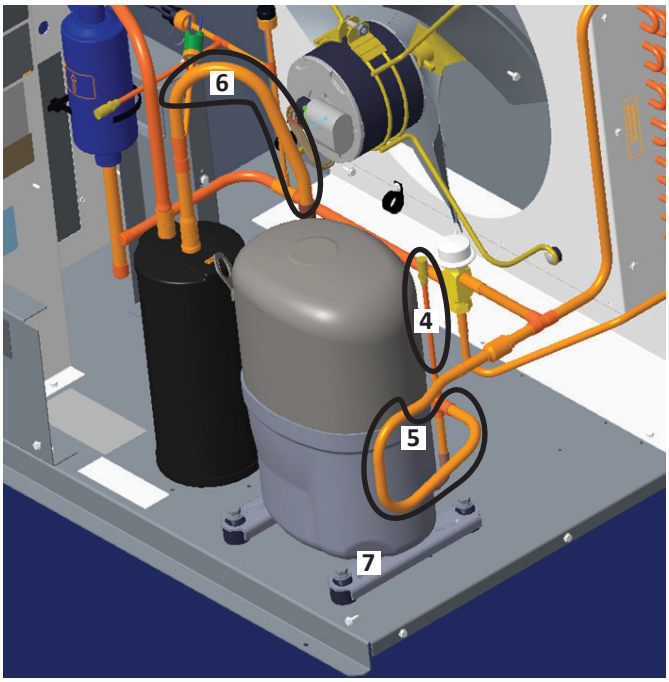
1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Remove discharge access fitting and save for reuse.
5. Cut discharge line 4” from the check valve and remove from compressor.
6. Cut suction line 2” from tee and remove from compressor.
7. Remove compressor and mounting feet

CVDF0600 Remote Condensing Unit - Install Compressor



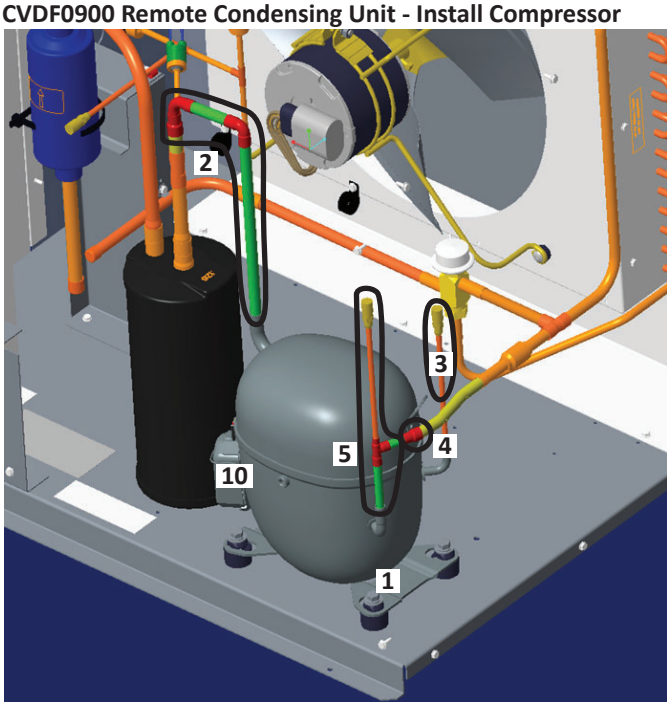
1. Install feet on compressor and place compressor on base as shown and secure.
2. Hand assemble 1/2” elbow, 1/2” street elbow and tube and fit to suction line and compressor suction port.
3. Install removed access fitting in compressor access port. Note - Compressor lift ring may need to be bent to prevent contact with access fitting.
4. Hand assemble 3/8” coupling to discharge line by check valve.
5. Hand assemble 1/4” x 3/8” x 3/8” tee with two 3/8” tubes and the 1/4” access valve and fit to compressor discharge port and coupler installed in previous step on discharge line.
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.
11. Weigh in nameplate refrigerant charge.

CVDF0900 Remote Condensing Unit - Remove Compressor



1. Disconnect, lockout and tag out all utilities.
2. Recover refrigerant from system.
3. Remove wiring from compressor.
4. Remove discharge access fitting and save for reuse.
5. Cut discharge line 4.75” from the check valve.
6. Cut suction line 1.375” from tee.
7. Remove compressor and mounting feet

CVDF0900 Remote Condensing Unit - Install Compressor



1. Install feet on compressor and place compressor on base as shown and secure.
2. Hand assemble in the order below and fit to suction line and compressor suction port:

5/8” x 1/2” reducer - 1/2” street elbow - 1/2” tubing - 1/2” elbow - 1/2” tube

3. Install removed access fitting in compressor access port. Note - Compressor lift ring may need to be bent to prevent contact with access fitting.
4. Install a 1/2” x 3/8” reducing coupling to check valve discharge line.
5. Hand assemble 1/4” x 3/8” x 3/8” tee with two 3/8” tubes and the 1/4” access valve and fit to compressor discharge port and coupler installed in previous step on discharge line.
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.
11. Weigh in nameplate refrigerant charge.