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START-UP REPORT



PLEASE SEE REVERSE BEFORE STARTING COMPRESSOR

Installing Company: _____

Phone: _____

Unit Model #
Unit Serial or ID #

Job Name:
Location:

Notice: In order to validate your warranty and insure a long life of your new compressor, this report **MUST BE COMPLETED** and returned within 36 hours of compressor start-up.

New Model # _____
 Old Model # _____

New S/N _____
 Old S/N _____

Before Start-up:

YES	NO	
<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	Microns
<input type="checkbox"/>	<input type="checkbox"/>	

Crankcase heaters working?
 New liq. line drier installed?
 New suct. line drier installed?
 System/Compressor evacuated?
 Contactor(s) replaced?

After Start-up:

Amps L1 L2 L3
L7 L8 L9

Voltage L1-L2 L1-L3 L2-L3
L7-L8 L7-L9 L8-L9

Unloader Setting _____
 Acid test made after running? _____
 LP trips at _____
 HP trips at _____

Oil Level 0

Dry Run Info:

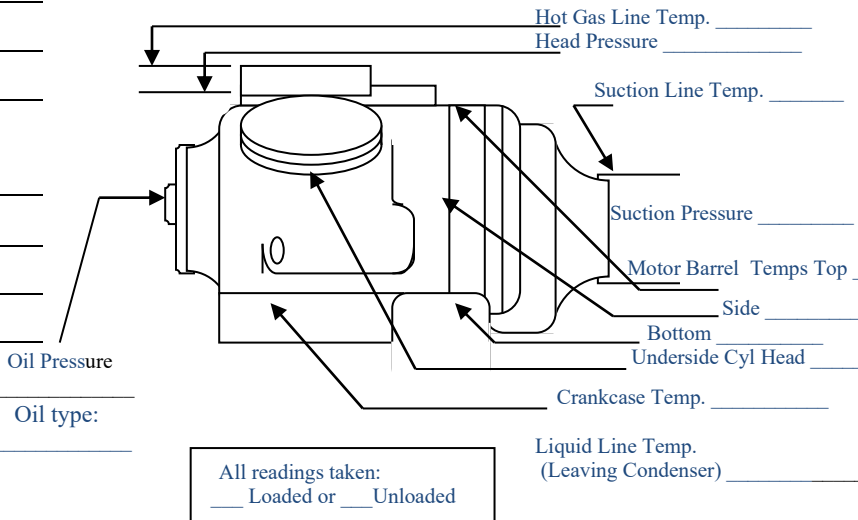
Oil safety actually trips at _____ seconds.
 Dry Run Voltage L1-L2 L1-L3 L2-L3
L7-L8 L7-L9 L8-L9

Ambient Temp. _____ **Refrigerant:** _____
Rating Actual

Evaporator Fan / Pump amps. _____
 Air/Water Temp.: In _____ Out _____
 Water Pressure: In _____ Out _____
 Cond. water temp In _____ Out _____

ASAP rep at job: _____

Allow compressor to run fully loaded for at least 30 minutes, then obtain the pressures and body temperatures at the locations shown below. Check for Proper Oil Return in sight glass.



All readings taken:
 ___ Loaded or ___ Unloaded

COMMENTS: _____

Tech's Name: _____ Signature: _____ Date: _____

SUGGESTED COMPRESSOR START-UP AND SYSTEM CHECK-OUT GUIDE

1. Before electrical hook up (or coupling) start control circuit without wires from compressor connected to the load side of the contactor(s), to check oil pressure cut out and contactor points.
 - A. Record volts from load side of contactor(s)
 - B. Record time for oil safety to drop contactor(s) out
 - C. Take amp reading of evaporator fan motor (if DX system) and record actual and rated amps (should be within 10%)
 - D. Check oil level in sight glass.
 - 1.) If more than ½ drain excess oil immediately (after verifying that entire level is oil and not liquid refrigerant) or, if refrigerant, close service valves & recover.

NOTE: 2 A, B, C, & 3 should all be checked within 10-15 seconds from start

2. Reconnect compressor wires to contactor(s) (or bolt up coupling) and start compressor with suction service valve open only 1/2 turn, discharge valve fully open.
 - A. Watch oil level at start and see if increases. If steady, slowly open suction valve ½ turn every 3-5 minutes until ½ way open and then go to full. If rises past half, drain oil down to bottom of glass.
 - B. Check oil pressure using extra set of service gauges, subtract suction pressure and record net pressure.
 - 1.) If net oil pressure is not normal, SHUT machine OFF and find cause.
 - C. Check oil level again, multiple times.
3. Check amp draw on each leg.
 - A. If any large variation shut off immediately and check out wiring circuit. If no wiring or loose connections found, replace fuses, and try again.
4. Check voltage again on each leg under load and record after ensuring unit is fully charged.
5. Check suction and discharge pressure and check out any abnormal pressures (suction 60-75 normal A/C) (discharge 180-220 water cooled, 225-275 air cooled)
6. Check suction line temperature, discharge line temperature, and various crankcase temperatures, and record.
7. Recheck oil level and drain excess – depending on model, level should be between 1/8 and 1/2 glass
8. Check LP control by throttling down on suction service valve, record cutout point.
9. Recheck oil level & drain if necessary.
10. Run up head pressure to determine when high pressure control will cut out. (This can be accomplished by disabling condenser fans or tower fan – should have manual reset and not be higher than 350 lbs.)
NOTE: Have someone with hand on disconnect to shutdown at 375.
11. Change driers and check each thermal expansion valve computing individual superheats.
12. Check unloader operation and adjust to proper operation. If unsure of settings call ASAP office.
13. Record all final readings on start-up
14. Review all of readings to see if you are satisfied with the way everything is running.