

# Compressor Start-Up Sheet

**This form must be completed and faxed to 763-231-6906 or emailed to startupsheet@daikinapplied.com within 10 days of start up date**

**Failure to provide this information voids all warranties**

Date of Check / Start-Up:

RMA #

Contractor / Dealer Company Name and Address:

Your Name:

E-Mail:

Installed Compressor Model:

Installed Compressor Serial No.:

Removed Compressor Model:

Removed Compressor Serial No.:

Chiller / Cond. Section Model:

Chiller / Cond. Section Serial No.:

Owner / Customer Name and Address:

E-Mail:

Acid Test Done ? : Yes  No

**Acid Test Results and Actions:**

**Compressor / Unit Start-Up**

	Degrees F	
	Min Load	Max Load
Ambient Outdoor Temp.:		
Evaporator Return Air/Water Temp.:		
Evaporator Discharge Air/Water Temp.:		
Conditioned Air Temp.:		
Suction Line Temp. @ Compressor:		
Suction Pressure @ Compressor:		
Less: (Suct. Press. converted to Temp.)		
Suction Superheat:		
Discharge Gas Temperature: (6 inches from service valve)		
Discharge Pressure:		
Crankcase Heater Operating?		
New Filter Drier / Cores Installed?		
Quantity:		
Liquid line sightglass moisture indicator dry?		
Liquid line temperature:		
Liquid line pressure:		

**Oil Level at Sightglass**

<i>Compressor not operating:</i>	Full
	Three Quarter
	Half
	Quarter
	Empty
<i>After Compressor running 10 min.:</i>	Full
	Three Quarter
	Half
	Quarter
	Empty

Condenser Subcooling:

Expansion Valve Bulbs tight?

Evaporator Coil Clean?

Contactors replaced?

Unit or Compressor Fuse Size:

**Note:** Please see reverse side for important feedback information.

	Volts	Amps
Line - 1	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
Line - 2	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
Line - 3	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
Sum (Volts) =	<input style="width: 100%;" type="text"/>	

Average (Sum divided by 3) ==

Voltage Difference (worst leg) ==

% Imbalance (worst leg/average x 100) ==

**% Imbalance must be 3% or less. If not, see below.:**

- a) Rotate wires "forward" -----> move wire on Terminal-1 to Terminal-2; Terminal-2 to Terminal-3; and Terminal-3 to Terminal-1. Measure and recalculate as before. If now less than 3%, connection is good and leave it as connected; If imbalance is still more than 3%, see b) below.
- b) Move wires "forward" once more, remeasure and recalculate. If now less than 3%, connection is good and leave it as connected.
- c) If imbalance remains above 3% in all three positions, turn off equipment and advise Owner / Customer that they have an electrical imbalance.

**Daikin Applied does not warranty compressors for single-phase motor burns. To avoid single phase motor burns, a new contactor(s) must always be installed when installing a new remanufactured semi-hermetic compressor.**

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**This test to be performed on the failed compressor.**

How many compressors have failed on this unit/system?

**Failed Compressor Symptoms (check as many as apply):**

- |  |   |  |
|--|---|--|
| <p><u>Noise</u></p> <input type="checkbox"/> At start-up<br><input type="checkbox"/> Running-steady<br><input type="checkbox"/> Running-intermittent<br><input type="checkbox"/> At shut-down<br><input type="checkbox"/> Excessive vibration<br><br><p><u>Leak</u></p> <input type="checkbox"/> Note Location | <p><u>Compressor will not start</u></p> <input type="checkbox"/> Motor grounded<br><input type="checkbox"/> Motor open<br><input type="checkbox"/> Starting components OK<br><input type="checkbox"/> Thermostat open<br><input type="checkbox"/> Oil pressure trip<br><input type="checkbox"/> Module Trip (motor protector)<br><input type="checkbox"/> Module Trip (demand cooling)<br><input type="checkbox"/> Voltage at compressor<br><input type="checkbox"/> Locked Rotor | <p><u>Mechanical</u></p> <input type="checkbox"/> Broken Rods<br><input type="checkbox"/> Discolored valve plate<br><input type="checkbox"/> Worn Bearings<br><input type="checkbox"/> Dragging rotor<br><input type="checkbox"/> Little or no oil<br><input type="checkbox"/> Broken Suction Reeds<br><input type="checkbox"/> Low Oil Pressure<br><input type="checkbox"/> Broken Discharge Valves<br><input type="checkbox"/> Other |
|--|---|--|

- Type of Equipment:
- |  |  |
|--|--|
| <p><u>Air Conditioning</u></p> <input type="checkbox"/> A/C, HP Split System<br><input type="checkbox"/> A/C, HP Packaged<br><input type="checkbox"/> Remote condenser<br><input type="checkbox"/> Comfort Cooling<br><input type="checkbox"/> Thermal Storage<br><input type="checkbox"/> Other | <p><u>Refrigeration</u></p> <input type="checkbox"/> Parallel<br><input type="checkbox"/> Single<br><input type="checkbox"/> Booster<br><input type="checkbox"/> Reach-in case<br><input type="checkbox"/> Condensing unit<br><input type="checkbox"/> Process Application |
|--|--|

**Exact cause of failure (refer to attached document)**

- |  |   |   |                                |
|--|---|---|--------------------------------|
| <input type="checkbox"/> Refrigerant Floodback<br><input type="checkbox"/> Flooded Starts<br><input type="checkbox"/> Slugging<br><input type="checkbox"/> Loss of Oil | <input type="checkbox"/> High discharge Temperature<br><input type="checkbox"/> Uniform Burn<br><input type="checkbox"/> Single Phase Burn<br><input type="checkbox"/> Half winding Single Phase Burn | <input type="checkbox"/> Half Winding Burn<br><input type="checkbox"/> Primary Single Phase<br><input type="checkbox"/> Spot Burn<br><input type="checkbox"/> Shorted Terminals | <input type="checkbox"/> Other |
|--|---|---|--------------------------------|

**General Comments:**

**Planned Corrective Action:**

\_\_\_\_\_  
Installer's / Technician's Name, Please print

\_\_\_\_\_  
Signature

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