

# Daikin Applied Compressor Checklist

This form must be completed and emailed to [custserv@tmi-asg.com](mailto:custserv@tmi-asg.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: <input style="width: 100px;" type="text"/>
E-Mail: <input style="width: 100%;" type="text"/>

Owner / Customer Name and Address:

E-Mail: <input style="width: 100%;" type="text"/>

Installed Compressor Model:   
 Installed Compressor Serial No.:   
 Removed Compressor Model:   
 Removed Compressor Serial No.:   
 Chiller / Cond. Section Model:   
 Chiller / Cond. Section Serial No.:

Acid Test Done ? : ☐ Yes ☐ No

**Acid Test Results and Actions:**

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## Compressor / Unit Start-Up

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

## Oil Level at Sightglass

Compressor not operating:	<input type="text"/>	Full
	<input type="text"/>	Three Quarter
	<input type="text"/>	Half
	<input type="text"/>	Quarter
	<input type="text"/>	Empty
After Compressor running 10 min.:	<input type="text"/>	Full
	<input type="text"/>	Three Quarter
	<input type="text"/>	Half
	<input type="text"/>	Quarter
	<input type="text"/>	Empty

	Volts	Amps
Line - 1	<input type="text"/>	<input type="text"/>
Line - 2	<input type="text"/>	<input type="text"/>
Line - 3	<input type="text"/>	<input type="text"/>
Sum (Volts) =	<input 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.:**

- 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.
- Move wires "forward" once more, remeasure and recalculate. If now less than 3%, connection is good and leave it as connected.
- If imbalance remains above 3% in all three positions, turn off equipment and advise Owner / Customer that they have an electrical imbalance.

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

**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):**

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

**Type of Equipment:**

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

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

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

**General Comments:**

**Planned Corrective Action:**

Installer's / Technician's Name, Please print

Signature

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