



## LC/LV Series Start up Report

**Important** – To ensure warranty validation and continued customer satisfaction, complete this form and return it to Desert Aire immediately after start-up. Validation of this report activates the warranty.

**Desert Aire Corporation**  
**c/o Service and Warranty Department**  
**N120W18485 Freistadt Road**  
**Germantown, WI 53022**  
**Phone: (262) 946-7400    service@desert-aire.com**

### Instructions

- **Warning** – Only trained, qualified personnel should install and service Desert Aire equipment. Serious Injury or death can result from improper handling of this equipment. High voltage electrical components and refrigeration under pressure are present.
- Before continuing, read the Installation and Operations manual. If you do not fully understand the manual contact the Desert Aire Service Department. Please be prepared with the model and serial numbers located on the rating plate of the unit.
- Use one start up report per unit. Print or type all information. If there is not enough space available for readings or comments please attach additional pages directly to the start up report.

Location and Unit Information			
Installation Name:		Date:	
Installation Address:			
Dehumidifier Model #:		Serial #:	
Remote Condenser Model #:		Serial #:	
Form Completed By (Print):		Signed:	
Company Name:		Phone #:	
Company Address:			

Factory Use Only					
Reviewed By:		Date:		Report is:	<input type="checkbox"/> Approved <input type="checkbox"/> Denied
AireGuard Connection Verified:	<input type="checkbox"/> Yes <input type="checkbox"/> No				

**\*Denotes that this is a model dependent item**

<b>Proper Installation Checklist- Refer to the LC/LV I&amp;O manual for items label "Sec"</b>		
<input type="checkbox"/> Installation manual read and understood	<input type="checkbox"/> Tighten all field and factory wiring	<input type="checkbox"/> Open all refrigeration service valves and tighten packing nuts
<input type="checkbox"/> Dehumidifier installed and leveled properly. <b>Sec 2.1</b>	<input type="checkbox"/> Adjust and tighten blower belts if necessary. <b>Sec 3.1</b>	<input type="checkbox"/> Check field and factory piping for leaks
<input type="checkbox"/> Condensate drain trapped and primed. <b>Sec 2.3</b>	<input type="checkbox"/> Check rotation of blower on 3 phase units	<input type="checkbox"/> Inspect air filters. Clean or replace as necessary
<input type="checkbox"/> Verify that the power supply matches the rating plate	<input type="checkbox"/> Check rotation of remote condenser fans	<input type="checkbox"/> 120 volt circuit run to heat trace and powered up

<b>Unit Power Supply – Wire transformers 240 volt for 240 volt applications. Unit leaves factory wired 208 or 460</b>			
<b>Voltage at power block - No motors running</b>	L1-L2	L2-L3	L1-L3
<b>Control Voltage - No motors running</b>	Transformer 1		VA Rating

<b>Line-set Installation* See label affixed to the unit for pipe sizes, charge and additional oil charge. See section 2.3 and 2.4 of the Air Cooled I&amp;O manual for pipe design, support and trapping details</b>					
Line Sizes	Hot Gas			Liquid Return	
Lineset Length			Elevation Change	Above	Level Below
Hot gas line trapped at every riser	Yes	No	N/A	Inverted traps at top of risers	
Check valve installed	Yes	No		Line-set Clamped per I/O Manual	
Additional R410A Added			LBS	Additional Oil Added	
				OZS	

<b>Fan Cycle Controller Settings* – See sec 4.0 of the Air Cooled I&amp;O manual for programming details. Insure the sensor wiring and jumpers positions are correct per sec 2.7-2.8</b>								
<b>Voltage</b>	L1-L2		L2-L3		L1-L3			
<b>Amps - Motor 1</b>	L1		L2		L3			
<b>Amps - Motor 2</b>	L1		L2		L3			
<b>SENS</b>	SN-1							
<b>OUTR<sup>1</sup></b>	ON <sup>1</sup>	OFF <sup>1</sup>	OND <sup>1</sup>	OFFD <sup>1</sup>	ONT <sup>1</sup>	OFT <sup>1</sup>	SNF <sup>1</sup>	SENS <sup>1</sup>
<b>OUTR<sup>2</sup></b>	ON <sup>2</sup>	OFF <sup>2</sup>	OND <sup>2</sup>	OFFD <sup>2</sup>	ONT <sup>2</sup>	OFT <sup>2</sup>	SNF <sup>2</sup>	SENS <sup>2</sup>

<b>Air Flow Readings: See sec 3.3.3 of the LC/LV I&amp;O manual for airflow instruction and specs</b>					
		<b>Unoccupied Mode</b>		<b>Occupied Mode*</b>	
<b>Evaporator Static Pressure Drop</b>		"WC		"WC	
<b>Reheat Condenser Static Pressure Drop</b>		"WC		"WC	
<b>Supply Duct Static Pressure</b>		"WC			
<b>Return Duct Static Pressure</b>		"WC			
<b>OA Damper Setpoint</b>		%		%	
<b>Blower FLA (off nameplate)</b>	amps	<b>Actual</b>	L1	L2	L3

<b>Temperature Readings- Testing should be done with at a minimum of 70degs</b>			
<b>Room Air Temperature</b>	°F	<b>Room Relative Humidity</b>	%
<b>Outdoor Air Temperature</b>	°F	<b>Outdoor Relative Humidity</b>	%
<b>Water Temp (main pool)</b>	°F	<b>Water temp (spa or other)*</b>	°F

<b>Compressors and Refrigeration in Reheat Mode- Superheat values can be found using the Carel display module and navigating to the analog output page. See section 3.4 figure 29 for proper superheat values. Sub cooling pressure and temp readings are taken between the receiver outlet and the liquid filter.</b>					
<b>Motor #</b>				<b>(8 Ton Only)</b>	
<b>Compressor RLA off nameplate</b>	amps			amps	
<b>Amperage</b>	L1			L1	
	L2			L2	
	L3			L3	
<b>Head Pressure</b>				Psig	
<b>Suction Pressure</b>				Psig	
<b>Refrigerant Sight Glass Clear</b>	Yes	No	<b>Oil Sight Glass</b>	N/A	1/2 3/4 F
<b>Suction temp / Superheat</b>				°F / °F	
<b>Liquid Temp / Sub-cooling</b>				°F / °F	

<b>Compressors and Refrigeration in Pool Water Heating Mode* - See section 2.4.1 of the LC/LV I&amp;O manual for pool water setup and specs. Note information in section 4.6</b>			
<b>Head Pressure</b>	Psig	<b>Suction Pressure</b>	Psig
<b>Water Inlet Temperature</b>	°F	<b>Water Outlet Temperature</b>	°F
<b>Suction temp/Superheat</b>	°F / °F		

**Compressors and Refrigeration in Cooling Mode\*** *Superheat values can be found using the Carel display module and navigating to the analog output page. See section 3.4 figure 29 for proper superheat values. Sub cooling pressure and temp readings are taken between the receiver outlet and the liquid filter.*

<b>Head Pressure</b>	Psig	<b>Suction Pressure</b>	Psig
<b>Refrigerant Sight Glass Clear</b>	Yes No	<b>Oil Sight Glass</b>	N/A 1/2 3/4 F
<b>Suction temp / Superheat</b>	°F / °F	<b>Liquid Temp / Sub-cooling</b>	°F / °F

<b>Auxiliary Water / Steam Coil Information*</b>				
	<b>Signal</b>	<b>Inlet Temp</b>	<b>Outlet Temp</b>	<b>Discharge Air Temp</b>
<b>Water Coil</b>		°F	°F	°F

<b>Auxiliary Electric Heater Information*</b>					
	<b>Signal</b>	<b>L1 Amps</b>	<b>L2 Amps</b>	<b>L3 Amps</b>	<b>Discharge Air Temp</b>
<b>Electric Heater</b>					°F

<b>Remote Start Up</b>			
<b>Tech Onsite Name:</b>		<b>Company</b>	
<b>Email Address:</b>		<b>Phone #:</b>	

<b>AireGuard and Owner Info</b>					
<b>Application (Pool, Spa, etc.):</b>			<b>Software Rev:</b>		
<b>Type of Start-Up:</b>	Onsite	Remote	<b>AireGuard Connection:</b>	Inactive	Active
<b>Owner's Name:</b>		<b>Owner's Email Address:</b>			
<b>Owner's Mailing Address:</b>					

**Additional Comments:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_