

The following information must be fully completed and forwarded to your local Liebert sales office to establish your equipment warranty.

Installer	Address	
Owner	Address	
Owner e-mail address		
Installation Date		
Was the unit received in good condition?	☐ Yes ☐ No	
If no, has the carrier been notified?	☐ Yes ☐ No	
Have the manuals been kept with unit?	☐ Yes ☐ No	
PRE-START-UP		
Evaporator Serial Number:		
Evaporator Model Number:		
Condenser/Drycooler Serial Number:		
Condenser/Drycooler Model Number:		
Compressor Serial Number:		
Compressor Model Number:		



A WARNING

Arc flash and electric shock hazard. Open all local and remote electric power disconnect switches, verify with a voltmeter that power is off and wear personal protective equipment per NFPA 70E before working within the electric control enclosure or any hazardous voltage electric connection enclosure. Failure to comply can cause serious injury or death.

With the electric power to the unit OFF check the following items as noted:
☐ Internal piping clamps tight and secure on Evaporator and Condenser.
Field piping properly supported and secure.
☐ Hot Gas line pitched according to User Manual.
Field piping trapped according to User Manual.
Field piping properly sized according to the User Manual.
ALL electrical connections are tight and properly terminated on Evaporator and Condenser/Drycooler.
☐ Heat Rejection Interlock wiring has been correctly installed between Evaporator and Condenser/Drycooler (70 and 71).
☐ CAN Communication cable has been correctly installed between Evaporator, Condenser.
Equipment is installed level.
Remove all debris from unit area.
☐ Duct work is complete, and secured. (If Applicable)
☐ Verify Proper Water/Glycol Maintenance/Treatment has been performed.
☐ Yes ☐ No (if no, conformation available please inform end user)
☐ Filters are installed in the unit?
Filter Size Quantity

☐ Blower drive system ro	tates freely and belts a	re properly aligned and tensioned
Main fan HP	Voltage _	
Belt Size	Motor Sheave	Fan Pulley
cause serious injury or cabinet of an energized moving parts such as bl	death. Use extreme ca unit near bare live haz ower wheels and shaf	ed moving parts and hot surfaces, Can aution when working inside the unit zardous voltage terminals, high speed fts, pulleys, belts, EC fan blades and hot ot gas lines, and humidifier bulbs
Evaporator Inspection	<u>on</u>	
1. Check voltage at discor	nnect and record.	
L1-L2	L2-L3	L1-L3
		onnect switches. Verify with a voltmeter that ne marked unit voltage rating.
before working within the connection enclosure.	e electric control encl Jse extreme caution v	rsonal protective equipment per NFPA 70E losure or any hazardous voltage electric when checking the status of live hazardous s serious injury or death.
		ase meter. If phasing is incorrect, change hange any unit or component phasing.
watching the gaug	ge pressures. If the pi	tion by bumping the contactors and ressures are equalized and the essor is running backwards.
		s for proper output. (Secondary voltage should r load, change tap if necessary).
T1 Volt		
4. Record iCOM Software	Version:	
NOTE: The software very	sion is located in the No	atwork Many that is located in Sorvice Manus

		•	ation of each co on the iCOM Co		g the Service Menu that is	located in
5. E	nable Ma	nual Mode				
6. E	nable Far	ns and rec	ord Main Fan ar	nperage.		
	L1		L2	L3	Fuse	_
7. E	nable Re	heats and	record amperag	ge. Disable Reheat	s after test.	
	L1		L2	L3	Fuse	_
	NOTE:				water before turning on the or proper operation.	e lamps.
		midifier an after test.	d record ampera	age. Check for leak	s at all piping connections.	Disable
dea	ith. Use e ergized hu	xtreme ca ımidifier b	ution when wo	orking near bare liv	parts, can cause serious ve hazardous voltage teri Fuse	minals or
9. 0	Check con	densate pu	ımp for proper o		ump with water. Check for	
Ris dea the cor	ith. Use e energize inection t	ric shock xtreme ca d condens	ution when wo sate pump mot over. Use extre	orking near bare livor. Do not remove	aces, Can cause serious ve hazardous voltage term the condensate pump el o not spill water on the m	minals or lectric
	L1		L2	Fus	e	
Chi	lled Wate	r/Freecoo	ling Units			
				heck for full valve tr	ravel. Set 3P 1/2 Actuator	Open to
	Set 3P 1/2 Close to		Close to On. C	heck for complete	valve closure. Set 3P 1/2 /	Actuator
	Check for	leaks at a	II piping connec	tions.		

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Compressorized Units

NOTES:

- On air cooled systems an initial refrigerant charge of at least 75% to 80% of the calculated charge should be added to the circuit before starting the compressor.
- Digital compressor must be at fully loaded operation.
- 10. Enable compressor in the Charge Mode and allow the system to operate for 10-15 minutes.

Air-Cooled Condenser w/Fan Speed

Add additional refrigerant to obtain the proper superheat and subcooling for fan speed model condensers. Refer to associated condenser warranty inspection sheet for additional information.

Air-Cooled Condenser w/Lee-Temp

On the receiver at the condenser there are two refrigerant-level sight glasses. Refrigerant level will vary with outside temperature. Check refrigerant level after the system has been on for at least 15 minutes. Add additional refrigerant to achieve refrigerant level based on the ambient condition.

Amk	Ambient Temperature		
а	. Sight Glass Level (Check approp	oriate box)	
	40°F (4.5°C) and lower—botto	om sight glass is 3/4 full	
	☐ 40 to 60°F (4.5 to 15.5°C)—bo	ottom sight glass is full	
	☐ 60°F (15.5°C) and higher—top	o sight glass is 3/4 full	
h	Record Voltage to Heater Pads	Volts	

Water/Glycol System Operation

- If the head pressures recorded below equal **105°F** condensing temperature, no adjustment of the glycol/water regulating valves or Motorized Ball Valves are required.
- If the condensing temperatures are above 110°F, adjust the glycol/water regulating valves/Motorized Ball Valves to lower the head pressure. If the system has balancing valves in it, these valves should be adjusted to the required GPM for this piece of equipment.
- After the condensing temperature has been set up properly, the system should be allowed to run for 10 to 15 minutes to obtain stable conditions.

Note: To adjust the head pressure with Motorized Ball Valves, go to the Service Menus and then to the Options Set-up Menu. Adjust parameter S427 (Ball Valve Setpoint Offset). The default setting is +30. The range is +0 to +70. Lowering the setpoint will decrease the head pressure and an increase in the setpoint will increase the head pressure.

	Entering condens	ser water/glyco	ol temperature _		
	Leaving condens	er water/glyco	I temperature		
11.	Record Suction and I	Discharge Pres	sures.		
	Suction Pressure	·	Discharge	e Pressure	
12.	Check superheat and	d record. Supe	rheat should be a	pproximately 15°.	
	Superheat	°F			
13.	Check subcooling. (I for subcooling require		ondenser User Ma	inual and Warranty In	spection sheet
	Subcooling	°F			
14.	Record Total Charge				
	Circuit #1	LBS			
15.	Record Compressor a	amperage.			
	L1	L2	L3	Fuse	
16.	Disable Compressor.				
17.	Turn OFF Manual Mo	ode.			

8. Record compressor crankcase heater amperage. Amperage
tart-up is now complete.
our input is important to us. Your input is important to us. Did you encounter any actory or field issues? If YES, please check the YES box and supply detailed escription below. If NO, please check the NO box; however please feel free to providing additional comments or suggestions.
YES □ NO
omments:
TART-UP ERFORMED BYSTART-UP DATE (Please print name)
OMPANYPHONE #

IMPORTANT:

This form must be properly completed and returned to your local Liebert Sales office. If you do not know who your local Liebert sales office is, call 1-800-Liebert or check our website at:

https://www.vertivco.com/en-us/products/brands/liebert/