

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

Installer	_ Address			
Owner	Address			
ownor				
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				
MiniMate Evaporator Serial Number:				
MiniMate Evaporator Model Number:				
Condenser / Drycooler Serial Number:				
Condenser / Drycooler Model Number:				
Compressor Serial Number:				
Compressor Model Number:				



MARNING

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.

Wi	h 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.
	Heat Rejection Interlock wiring has been correctly installed between Evaporator and Condenser.
	Equipment is installed level.
	Remove all debris from unit area.
	Water supply line(s), condensate pump, or gravity drain connections are tight and do not leak. Drain lines are open and clear of dirt and debris.
	Duct work is complete, and secured. (If Applicable)
	Filters are installed in the unit?
	Filter Size Quantity
	Blower drive system rotates freely and belts are properly aligned and tensioned?
	Main fan HP Voltage
	Motor Sheave Fan Pulley Belt Size

Evaporator Inspection

1. Check voltage at disconnect and record.



WARNING

Risk of electric shock, contact with high speed moving parts and hot surfaces, Can cause serious injury or death. Use extreme caution when working inside the unit cabinet of an energized unit near bare live hazardous voltage terminals, high speed moving parts such as blower wheels and shafts, pulleys, belts, EC fan blades and hot surfaces such as motors, heater elements, hot gas lines, and humidifier bottles.

L1-L2	(If Applicable) L2-L	.3	(If Applicable) L1-L3
			switches. Verify with a voltmeter marked unit voltage rating.
NFPA 70E before wor voltage electric conne	king within the election enclosure.	ectric control Use extreme	protective equipment per enclosure or any hazardous caution when checking the comply can cause serious
	at input source to		eter. If phasing is incorrect, change any unit or
watching the ga	auge pressures. I	f the pressure	bumping the contactors and es are equalized and the srunning backwards.
			pper output. (Secondary voltage r load, change tap if necessary).
T1\	/olt		
*NOTE: Check operated Diagnostics N	•	nent by utilizing	g the Test Outputs in the
4. Enable Fan and rec	ord Main Fan ampe	erage.	
L1	L2	_ (If Applic	cable) L3

5.	Enable Reheat	s and record amperaç	ge. Disable Reheats after tes	t.		
	L1	L2	(If Applicable) L3			
	Enable Humidifi Disable Humidif		age. Check for leaks at all pip	ing connections.		
Ri in	WARNING Risk of electric shock and contact with extremely hot parts, can cause serious injury or death. Use extreme caution when working near bare live hazardous voltage terminals or energized humidifier bottle.					
	L1	L2	(If Applicable) L3			
	7. Check condensate pump for proper operation by filling pump with water. Check for leaks at all piping connections. Record pump amperage. (If Applicable) WARNING					
Risk of electric shock and contact with hot motor surfaces, Can cause serious injury or death. Use extreme caution when working near bare live hazardous voltage terminals or the energized condensate pump motor. Do not remove the condensate pump electric connection terminal cover. Use extreme caution and do not spill water on the motor or the electric connection cover.						
	L1	L2				
<u>Cł</u>	nilled Water Un	<u>its</u>				
	 Select Oper valve travel 		ne chilled water valve motor.	Check for full		
	Select Clos	e CW Valve to drive t	he chilled water valve motor.	Check for full		

valve travel close.

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• Check for leaks at all piping connections.

Econocycle Units

- Select Open CW Valve to drive the chilled water valve motor. Check for full valve travel open.
- Select Close CW Valve to drive the chilled water valve motor. Check for full valve travel close.
- Check for leaks at all piping connections.

Compressorized Units

- For self contained units continue with this warranty inspection sheet.
- For systems with remote condensers, continue Start-up utilizing the Liebert Small System Condensers (1-5 Ton) Warranty Inspection Check Sheet.
- Escape out of the Diagnostics Menu and use the temperature setpoint to operate the compressor.
- 8. Enable compressor and allow the system to operate for 10-15 minutes. 9. Check compressor operating pressures and record.

Suction Pressure	Disc	harge Pressure			
10. Check and record superheat (should be between (10-15°F)°F					
11. Check and record the compressor amperage.					
L1	L2	(if Applicable) L3			
12. Check and record ar	nperage of compress	or crankcase heater.			

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Water/Glycol Cooled Models

- If the head pressures recorded above equal 105°F condensing temperature, no adjustment of the glycol/water regulating valve are required.
- If the condensing temperatures are above 110°F, adjust the glycol/water regulating valve 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.

Entering condenser water/glycol temperature	—
Leaving condenser water/glycol temperature	

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*NOTE: Adjust all set-points for proper operation after testing. Adjust hot gas bypass to customers load.

Your Start-up is now complete.

Your input is important to us. Did you encounter any factory or field issues? If YES, please check the YES box and supply detailed description below. If NO, please check the NO box; however please feel free to provide any additional comments or suggestions.

□YES □NO			
Comments:			
START-UP PERFORMED BY		START-UP DATE	
	(Please print name)	OTANT-OF DATE	
COMPANY		PHONE #	

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/

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