

Liebert Econo Phase Warranty Inspection Check Sheet

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	/\ddic33		
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			
EconoPhase Module Serial Number:			
EconoPhase Module Model Number:			
EconoPhase Pump 1 Model Number	EconoP	Phase Pump 1 Serial Number	
			
EconoPhase Pump 2 Model Number	EconoP	Phase Pump 2 Serial Number	

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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.

	th the electric power to th Check internal piping clam		the following items as noted: e.		
	☐ Field piping properly supported and secure.				
	Field piping properly sized according to the installation manual.				
	Check ALL electrical connections for tightness and proper termination.				
	CAN Communication cable run between outdoor unit and EconoPhase module.				
	Check to ensure that the u	nit is installed level			
	Remove all debris from un	it area.			
<u>s</u> -	TART-UP				
1.	Check voltage at disconne	ct and record.			
	L1-L2	L2-L3	L1-L3		
2.	Close all local and remote	electric power disco	L1-L3 onnect switches. Verify with a age matches the marked unit voltage		
10	Close all local and remote evoltmeter that power is on a	electric power disco	nnect switches. Verify with a		
Arc NF vol	Close all local and remote of voltmeter that power is on a rating. WARNING c flash and electric shock PA 70E before working wallage electric connection of the connection of	electric power disco and the supply volta hazard. Wear per ithin the electric c enclosure. Use ex	nnect switches. Verify with a		
Arc NF vol sta inje	Close all local and remote of voltmeter that power is on a rating. WARNING c flash and electric shock PA 70E before working waltage electric connection of the state of live hazardous voltury or death.	electric power disco and the supply volta hazard. Wear per ithin the electric ca enclosure. Use ex age circuits. Failu	ennect switches. Verify with a large matches the marked unit voltage as sonal protective equipment per ontrol enclosure or any hazardous atreme caution when checking the lare to comply can cause serious as for proper output. (Secondary		

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4.	Check operation of the pumps by utilizing the Service Menu that is located in the
	Service Menus on the iCOM Control.

- a. Set Manual Mode to Yes
- b. Turn Fans On. Verify the fans are operating at the standard speed via Analog Output 1 (S341)
- c. Locate EconoPhase menu in the Advanced Menus
- d. Enter level 4 Password
- e. Verify pump operation is "Enabled" on line P002
- f. Navigate to line P015. On this line you can select PB1 Test (Pump 1), PB2 Test (Pump 2) or PB1/PB2 Test (Pump 1 & 2 at the same time. Select what test you would like to run. During the pump test the compressors will operate for about one minute before the pump(s).
- g. Watch the Pump differential readings. You should see a positive pressure reading. If you have a negative pressure reading, then the pumps are rotating backwards. Turn OFF the Main Disconnect on the EconoPhase module. Change wiring at output of VFD. <u>Do not change module or component phasing.</u>
- h. On line P017, iCOM will give a pass/fail criteria based on whether positive pump differential could be achieved.

Note: If one or both of the pump tests fail, you can rerun either that single or both pump test again.

5. Record Pump test results below.			
Pump 1	Pass 🗌	Fail 🗌	
If circuit did not pass, give brief explanation.			
Pump 2	Pass 🗌	Fail 🗌	
If one or both circuits did not pass, give brief explanation.			

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Your Start-up is now complete.					
YES, please check the YES	s. Did you encounter any factory or field issues? If box and supply detailed description below. If NO, owever please feel free to provide any additional				
☐ YES ☐ NO					
Comments:					
START-UP PERFORMED BY	START-UP DATE				
	(Please print name)				
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/