

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

Installer	Address		
Owner	Address		
Owner e-mail address			
Date of Installation:			
Was the unit received in good condition?	☐ Yes		No
If no, was the freight carrier notified?	☐ Yes		No
Have the manuals been kept in the units?	☐ Yes		No
PRE-START-UP			
XDP Serial Number:			
XDP Model Number:			
This XDP is providing cooling fluid for:			
☐ XDO Qty ☐ XDV	Qty	☐ XDH	Qty
☐ XDR Qty ☐ XDS	Qty		
Is XDIO Communications being deployed?		Yes	□No
PUMP #1 H.P	Serial No		
PUMP #2 H.P	Serial No		

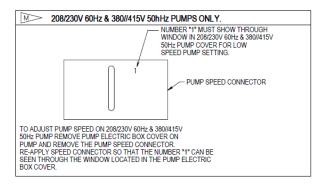


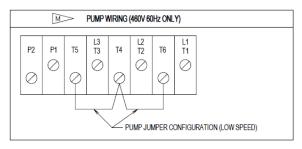
MARNING

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.

With the electric power to the unit OFF check the following items as noted:

Remove the electrical cover from each pump. Verify the pumps are set-up for low speed operation.





☐ Internal piping clamps tight and secure.
Field piping properly supported and secure.
R134A field piping properly sized according to the User Manual.
XDP is charged with at least 80% of calculated charge on R134A side of the system.
ALL electrical connections are tight and properly terminated.
CAN Communication cable has been correctly installed between XDP and XD Modules.
Remote Sensors A & B are installed according to User Manual.
Equipment is installed level.
Remove all debris from unit area.
ALL isolation ball valves in the XDP are open.
ALL isolation ball valves are open to the XD Modules.

Filter drier b	y-pass ball valves are closed so	that the refrigerar	t flow is through the
☐ Verify Prope	er Water/Glycol Maintenance/Trea	atment has been	performed.
☐ Yes	☐ No (if no, conformation a	available please ir	form end user)
Strainers	☐ Shut off valves	Filters	☐ Bleed valves
 By-pass Flow Controllers are installed and positioned correctly per the following table. 			
	In the table below is the recommended number of by-pass flow controllers that need to be opened based on the Cooling Modules Total Nominal kW.		

Liebert XDP			
Cooling Modules Cumulative Model Size kW	Required Number of Open Bypass Flow Controllers		
48 to 63	3		
64 to 95	2		
96 to 127	1		
128 to 160	0		

Pumping Unit Inspection

Note: Heat load is required for a proper start-up of this system.



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 and hot surfaces such as motors.

1.	Check voltage at discon	nect and record.	
	L1-L2	L2-L3	L1-L3

2. Close all local and remote electric power disconnect switches. Verify with a voltmeter that power is on and the supply voltage matches the marked unit voltage rating.



M WARNING

Arc flash and electric shock hazard. Wear personal protective equipment per NFPA 70E before working within the electric control enclosure or any hazardous voltage electric connection enclosure. Use extreme caution when checking the status of live hazardous voltage circuits. Failure to comply can cause serious injury or death.

- Check unit electrical phasing with a phase meter. If phasing is incorrect, change wiring at input source to unit. Do not change any unit or component phasing.
- Check the pumps for proper rotation by bumping the contactors.

For 460V units

Use the Grundfos rotation device provided. This device must be held against the pump housing at the inspection screw located on the end bell of the pump motor prior to energizing the pumps.

For 208V units

View the LED on the pump.

- **Green** only indication notates **proper** rotation
- Green & Red indication notates incorrect rotation.

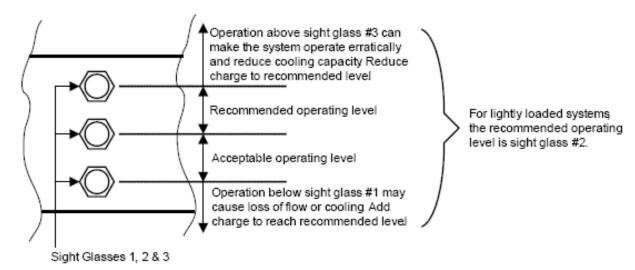
Pι	ump # 1 Rotation P	ump # 2 Rotation
	c and record control voltage transformers d not be under 23 VAC or exceed 27 VAC	
T1	Volt	
4. Record	d iCOM Software Version:	
Note:	The software version is located in the Menus.	letwork Menu that is located in Service
5. Record	d XDIO Software Version:	
Note:	The software version is located in the λ Menus.	(DIO Menu that is located in Service
6. Turn o	on fans at XD Cooling Modules.	

Note: If XDIO Communications is being used, the Cooling Module fans will automatically come on when the XDP is turned ON at the I/O switch.

7. Turn unit ON at I/O switch on display.

Note: If the pumps of the XDP cannot maintain flow and continue to switch over due to starting difficulties, turn the unit off and allow the receiver to refill with refrigerant. Once the receiver has a refrigerant level in the second sight glass, try to restart the XDP.

8. Once constant flow is established, verify that the level in the receiver sight glass is between the 2nd and 3rd sight glass after 10-15 minutes of operation. If refrigerant level is low, add addition refrigerant until the proper refrigerant level is achieved. See diagram below.



- 9. Test the differential pressure switch by intentionally closing the ball valve on the discharge line of the operating pump to prevent further flow. An alarm should annunciate following this for "Loss of Flow on P1". Confirm that the switch has opened on low pressure (below 6 psi).
- 10. Check pump amps and record after the charge in the system is topped off.

Pump #1				
L1	L2	L3	Fuse Size	
Pump #2				
L1	L2	L3	Fuse Size	

11. Check pump operating pressure and record. Pump #1				
Suction Pressure	Discharge Pressure			
Pump #2				
Suction Pressure	Discharge Pressure			
12. Record the following Chilled Water data. Supply Chilled Water GPM:				
Chilled Water Inlet Temperature:				
13. Record the following Refrigerant data.				
Leaving Refrigerant Temperature:				

Your start-up is now	complete.		
YES, please check	the YES box and supp IO box; however pleas	ncounter any factory or field is bly detailed description below e feel free to provide any addi	. If NO,
□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/