Liebert Xtreme Density Water Pumping (DCP) Unit
Warranty Inspection Check Sheet

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

DCP Serial Number: _____

DCP Model Number: _____

1. This DCP is providing cooling fluid for:

☐ XDKW17 **Qty** _____ ☐ XDKW25 **Qty** _____

☐ DCD35 **Qty** _____ ☐ XDRW8 **Qty** _____

2. Record pump information.

PUMP #1 **H.P.** _____ **Serial No.** _____

PUMP #2 **H.P.** _____ **Serial No.** _____

⚠ 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.

☐ Field piping properly supported and secure.

☐ ALL electrical connections are tight and properly terminated.

☐ Equipment is installed level.

☐ Remove all debris from unit area.

☐ Water supply line connections are tight and do not leak.

☐ Verify that air vents are installed at the high point of the system.

☐ Verify all air has been bled from the water system.

☐ Check that all auto air vents are closed.

☐ Confirm water level in sight glass is at the NORMAL line.

☐ Confirm that there is chilled water supplied to the DCP.

☐ Check that ALL isolation ball valves in the DCP are open.

☐ Check that ALL isolation ball valves are open to the Modules.

☐ Confirm that the Remote Temperature/Humidity Sensor has been installed in the correct location.

☐ Verify Proper Water/Glycol Maintenance/Treatment has been performed.

☐ Yes ☐ No (if no, conformation available please inform end user)

☐ Strainers ☐ Shut off valves ☐ Filters ☐ Bleed valves

☐ Verify that By-pass Flow Controllers were installed.

In the table below are the recommended numbers of by-pass flow controllers that need to be opened based on the number of XDRW Modules are in the XDPW circuit.

Liebert DCP	
Number of XDRW Cooling Modules	**Number of Fixed-Flow Bypass Controllers Required**
1	2
2	1
3-12	0

Pumping Unit Inspection

⚠ 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 hot surfaces such as motors

1. Check voltage at disconnect 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.

⚠ 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. <u>Do not change any unit or component phasing.</u>**

3. Check and record control voltage transformers for proper output. (Secondary voltage should not be under 23 VAC or exceed 27 VAC under load, change tap if necessary).

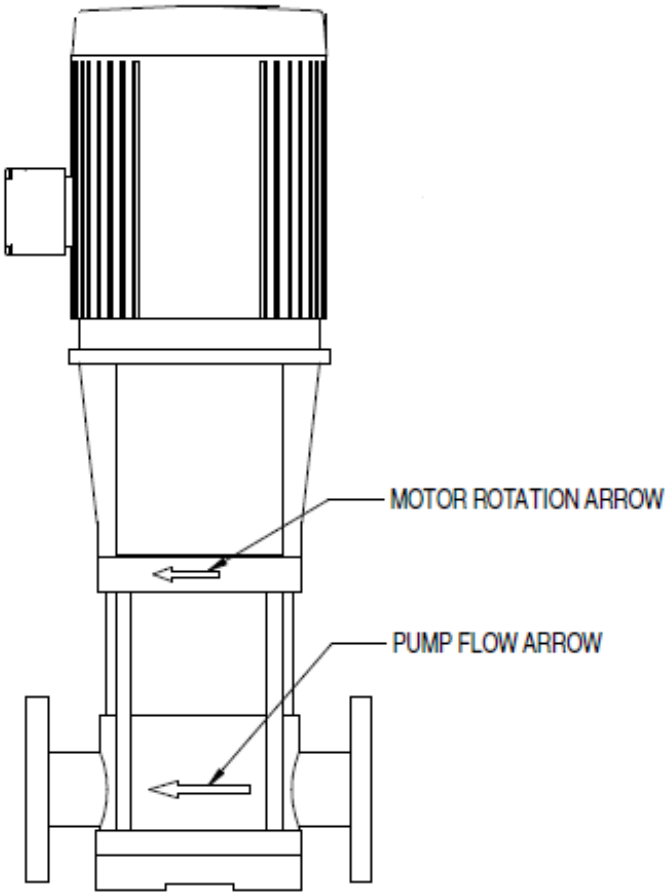
T1_____Volt

4. Record iCOM Software Version: _____

NOTE: *The software version is located in the Network Menu that is located in the Service Menus.*

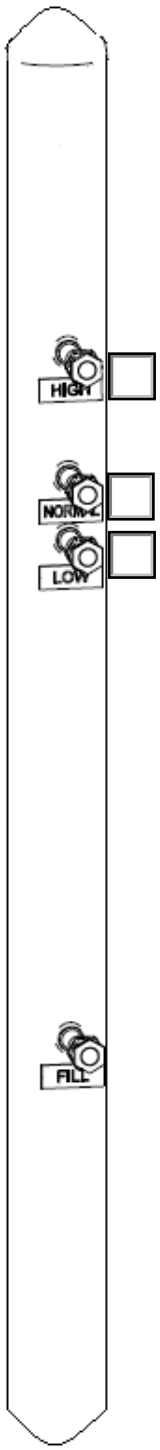
5. Turn the DCP ON at the display I/O button.

6. Check rotation of pumps. Record pump rotation below.



Pump # 1 _____ **Pump # 2** _____

7. Once constant flow is established, verify that the level in the sight glass is at the NORMAL line after 15 minutes of operation. Record the water level on diagram below.



8. Check pump amps and record after the water level is at the NORMAL line on the sight glass.

Pump #1

L1_____ **L2** _____ **L3** _____ **Fuse Size** _____

Pump #2

L1_____ **L2**_____ **L3** _____ **Fuse Size** _____

9. Test the flow 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 loss of flow.

10. Supply Chilled Water GPM to DCP _____

11. DCP Supply Chilled Water Temperature _____

12. Module Supply Chilled Temperature _____

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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)

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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