



- NOTES:
- 1.) DASHED LINES INDICATE PIPING, WIRING, AND COMPONENTS BY OTHERS.
 - 2.) FIELD PIPING MUST BE SCH. 40 CARBON STEEL PIPING OR EQUIVALENT. DO NOT USE GALVANIZED PIPING WITH GLYCOL FLUID. GALVANIZED PIPING IS NOT COMPATIBLE WITH GLYCOL FLUID.
 - 3.) VENTS (BY OTHERS) ARE REQUIRED AT ALL FIELD PIPING HIGH POINTS. DRAINS (BY OTHERS) ARE REQUIRED AT ALL FIELD PIPING LOW POINTS.
 - 4.) SYSTEM DESIGNED TO COOL XX GPM OF GG% ETHYLENE GLYCOL/WATER FROM YYY°F TO ZZZ°F USING DD GPM OF COOLING FLUID AT UUU°F.
 - 5.) SYSTEM DESIGN REQUIRES ONE PUMP TO OPERATE. THE OTHER PUMP IS AWAITING OPERATION IN STANDBY.
 - 6.) PUMP DESIGNED FOR XX GPM @ RRR FT TDH.
 - 7.) CUSTOMER FIELD PIPING ALLOWANCE IS A TOTAL OF EE.E PSID. FIELD PIPING TO ACCOMMODATE XX GPM OF CONTINUOUS FLOW.
 - 8.) PUMP SKID INTERNAL VOLUME APPROXIMATELY WW GALLONS.
 - 9.) SYSTEM DESIGN REQUIRES ONE HEAT EXCHANGER TO OPERATE. THE OTHER HEAT EXCHANGER IS AWAITING OPERATION IN STANDBY. THE STANDBY HEAT EXCHANGER MUST BE ISOLATED MANUALLY BY THE PROVIDED VALVES.
 - 10.) COOLING WATER OUTLET BALANCING VALVE (BY OTHERS) MAY REQUIRE A VALVE TYPE THAT COMPENSATES FOR PRESSURE FLUCTUATIONS ON A CLOSED LOOPED COOLING FLUID SOURCE (SUCH AS A CHILLED WATER LOOP).

LEGEND	
ITEM	DESCRIPTION
	PUMP, CLOSE COUPLED CENTRIFUGAL, TEFC MOTOR
	PRESSURE GAUGE WITH COCK (30 IN HG - 30 PSIG)
	PRESSURE GAUGE WITH COCK (0 PSIG - 100 PSIG)
	TEMPERATURE GAUGE WITH THERMOWELL
	BALL VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CHECK VALVE
	MANUAL GATE VALVE
	WYE STRAINER
	TURBINE FLOW METER WITH FLOW TRANSMITTER
	TEMPERATURE ELEMENT - RTD, PT100
	FLOAT SWITCH - TANK LOW LEVEL
	RUBBER FLEX FITTING
	ELECTRICALLY ACTUATED VALVE

UL508A COMPLIANT ELECTRICAL ENCLOSURE

PUMP AND CONTROL UNIT

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BY	RS	
DATE	1-31-25	
HYDROTHRIFT CORPORATION		
MODEL	CLOSED-LOOP LIQUID TO LIQUID (PCX) COOLING SYSTEM	SCALE NONE
SHEET	1 OF 1	
TITLE	PROCESS & FLOW DIAGRAM	DRAWING NUMBER PFDSTD-PCX
		REV. A