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Engineer:

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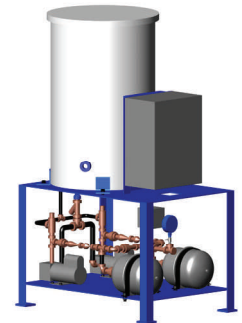
Contractor:

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JWRP Series

Redundant Glycol Make-up System High Reliability Pump Package For Closed Loop Heating & Cooling Systems



APPLICATION

- JWRP Series redundant glycol make-up systems are designed to maintain system pressure in a closed loop system where high reliability is desired.
- Pumping duties alternate between pumps in lead-lag fashion. Lead (primary) pump failure will cause lag (secondary) pump to run.
- Auxiliary contacts allow for remote monitoring of pump conditions, failure alarms, and low level alarms.
- A low level alarm float switch safely shuts down the pumps and sounds an alarm when the solution drops to the minimum fill level.
- Make-up system is designed for indoor applications. Optional upgrades for outdoor use are available.

DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure: 100 PSI (689 kPa)
- Maximum design temperature: 180° F (82° C)

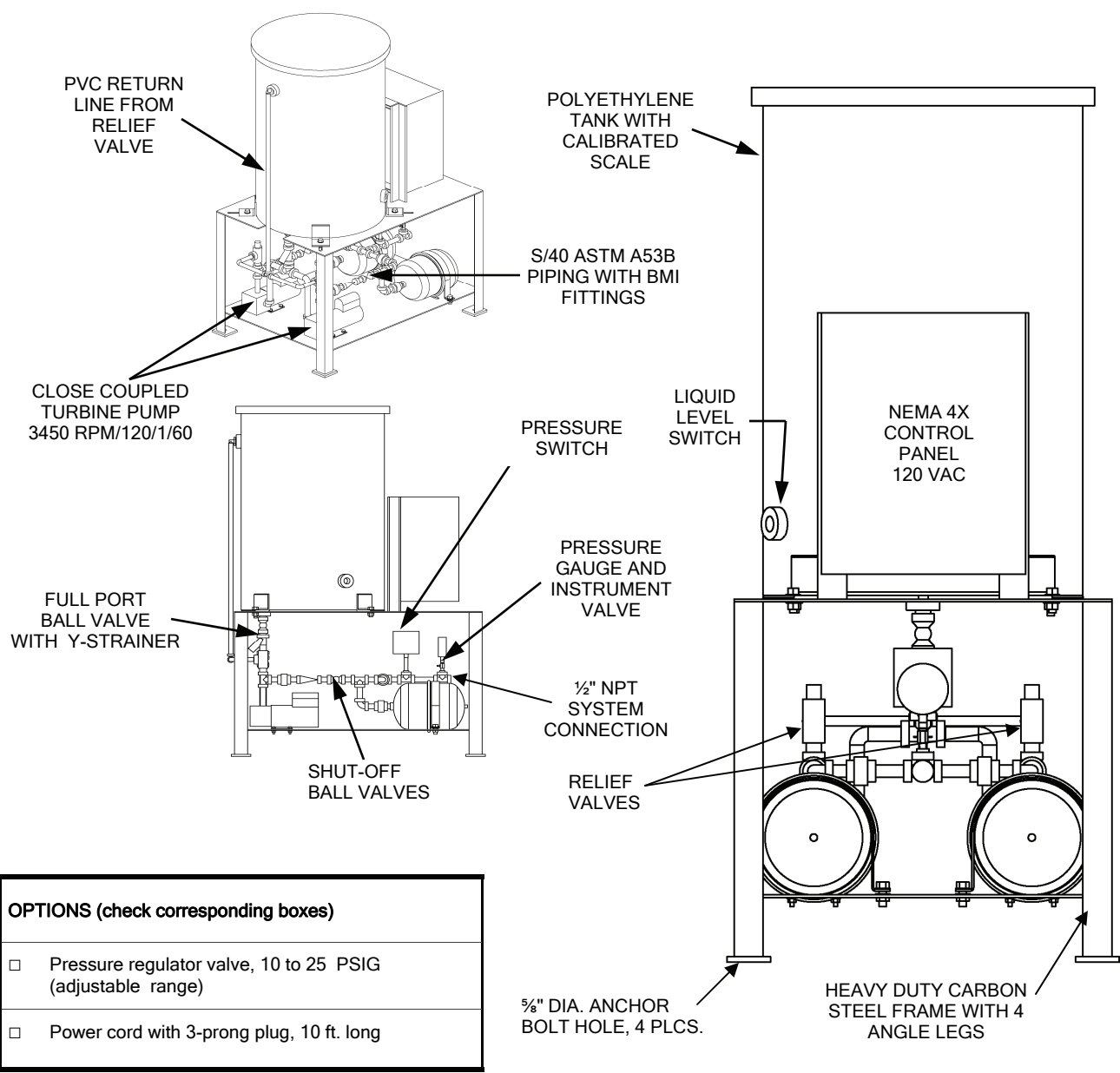
TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans John Wood Model No. JWRP-53-_____(____gallon) high reliability redundant glycol make-up system. The system shall consist of a structural steel frame fabricated to AISC specifications, a polyethylene tank with removable cover and visible level scale, y-strainer, float type level switch, instrument valve, pressure gage, pressure switch, and two of each of the following: expansion tanks, close coupled turbine pumps, check valves, full port ball valves, and relief valves with return lines. Discharge piping shall be Schedule 40 Carbon Steel with BMI fittings and ½" FNPT system connections. Suction piping and the return line from the relief valve shall be PVC. System requires a 115/1/60 HZ power connection. Unit shall provide up to 4.3 GPM.

SPECIFICATIONS

- Cylindrical self-supporting 30, 55, or 100 gallon polyethylene tank with removable cover
- Tank is calibrated in gallons for convenient visual check of contents
- Two (2) regenerative type turbine pumps, 1/3 HP
 - Bronze construction with Monel impeller blades, 316 SS shaft, carbon/ceramic shaft seal
 - 3.2 GPM capacity @ 54.1 PSI (125 ft. total head)
- Two (2) 2.1 gallon expansion tanks and two (2) pressure relief valves with return lines
- NEMA 1 standard pressure switches – factory setting: cut-in 40 PSIG, cut-out 60 PSIG (other switches available upon request)
 - Standard pressure range: cut-in 10 to 40 PSIG, cut-out 20 to 65 PSIG; 15 to 30 PSIG differential
- 120 VAC electrical connection (terminals included in the control panel; customer is responsible for electric connection)
- NEMA 4X control panel with two (2) HOA switches
- Auxiliary contacts for remote monitoring of alarm conditions and pump run
- ½" FNPT system connection

JWRP Series / Glycol Make-up



- OPTIONS (check corresponding boxes)**
- Pressure regulator valve, 10 to 25 PSIG (adjustable range)
 - Power cord with 3-prong plug, 10 ft. long

MODEL NUMBER	DUAL TURBINE PUMPS	TANK VOLUME	DIMENSIONS L x W	HEIGHT	SYSEM CONNECTION	EST. WEIGHT
JWRP-53-030	1/3 HP	30 GAL	39" x 27"	55 1/8"	1/2" FNPT	190 LBS
JWRP-53-055	1/3 HP	55 GAL	39" x 27"	60 1/8"	1/2" FNPT	210 LBS
JWRP-53-100	1/3 HP	100 GAL	39" x 27"	74 1/8"	1/2" FNPT	230 LBS

Dimensions are subject to change.
Shipping weights are approximate.



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