

Job Name:

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Engineer:

Approved By:

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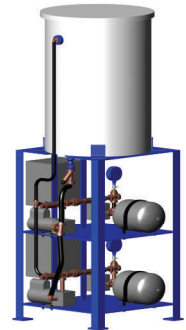
Contractor:

Order No.:

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JWDP Series

Dual Glycol Make-up System Two Independent Pump Packages For Closed Loop Heating & Cooling Systems



APPLICATION

- JWDP Series dual glycol make-up systems are designed to service and maintain minimum system pressure levels in two separate systems. The systems are completely automatic and operate as needed to add water or water-glycol solution to a closed loop heating, chilled water, snowmelt, or radiant heat system.
- The water-glycol solution is contained in the holding tank. Two pressure switches independently control the flow of the glycol solution to the systems.
- A low level alarm safety switch safely shuts down the pump 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)

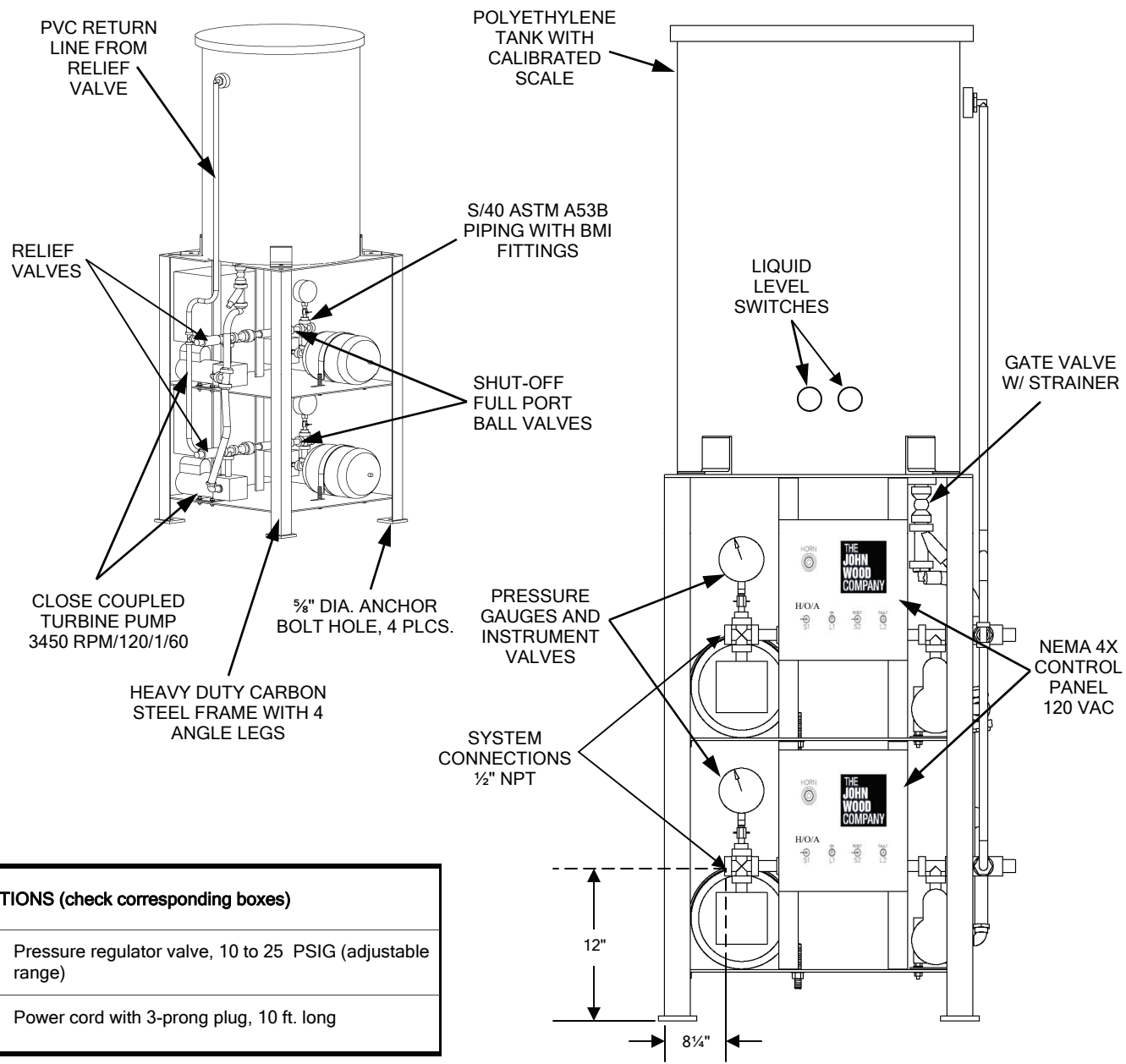
TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans John Wood Model No. JWDP-53-_____ (_____ gallon) automatic dual 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, and two each of the following: close coupled turbine pumps, check valves, relief valves with return line, instrument valves, pressure gauges, pressure switches, level switches, and expansion tanks. 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
- Two (2) NEMA 1 pressure switches with 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 panels; customer is responsible for electrical connections)
- Two (2) NEMA 4X control panels with HOA switches
- Auxiliary contacts for remote monitoring of alarm conditions and pump run
- ½" FNPT system connections

JWDP 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	DUAL SYSTEM CONNECTIONS	EST. WEIGHT
JWDP-53-030	1/3 HP	30 GAL	25" x 25"	73"	1/2" FNPT	170 LBS
JWDP-53-055	1/3 HP	55 GAL	25" x 25"	77 1/2"	1/2" FNPT	190 LBS
JWDP-53-100	1/3 HP	100 GAL	25" x 25"	90 1/2"	1/2" FNPT	210 LBS

Dimensions are subject to change. Shipping weights are approximate.



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