

Job Name:

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JWC Representative:

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Submitted By:

Date:

Engineer:

Approved By:

Date:

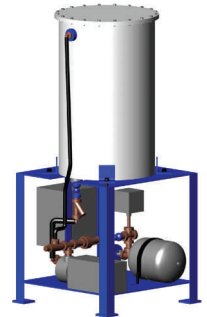
Contractor:

Order No.:

Date:

JWOP Series

Glycol Make Up Unit for Outdoor Applications Single Pump Package For Closed Loop Heating & Cooling Systems



APPLICATION

- Suitable for outdoor service – includes TEFC motor, pressure switch with NEMA 3R enclosure, sealed SS pressure gauge, epoxy paint, bolt-on tank lid with stainless steel nuts and bolts, liquid-tight electrical conduit, NEMA 4X control panel
- JWOP Series glycol make-up systems are designed to maintain minimum system pressure levels. 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. A pressure switch controls the flow of the glycol solution to the system.
- A low level alarm safety switch safely shuts down the pump when the solution drops to the minimum fill level.

DESIGN PRESSURE AND TEMPERATURE

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

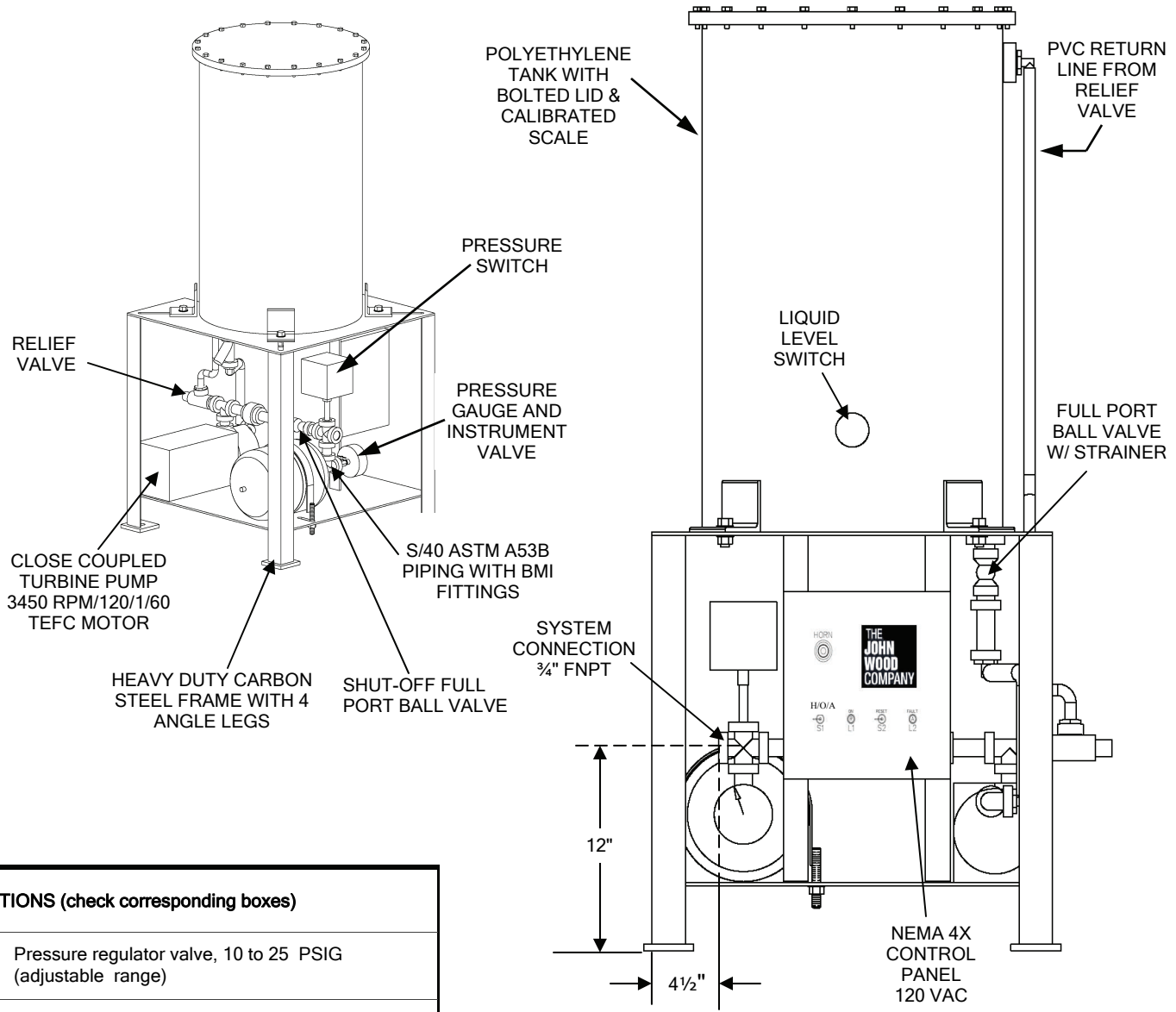
TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans John Wood Model No. JWOP-53-_____ (_____ gallon) automatic glycol make-up system. The system shall consist of a structural steel frame fabricated to AISC specifications, a polyethylene tank with removable bolted cover and visible level scale, y-strainer, TEFC pump, check valve, relief valve with return line, instrument valve, pressure gauge, pressure switch, level switch, expansion tank, and necessary piping. Discharge and Suction piping shall be Schedule 40 Carbon Steel with BMI fittings and 3/4" FNPT system connection. The return line from the relief valve shall be PVC. The electrical wiring shall be run in liquid-tight conduit. System requires a 115/1/60 HZ power connection. Unit shall provide up to 6.2 GPM. Unit shall be suitable for outdoor installations.

SPECIFICATIONS

- Cylindrical self-supporting 30, 55, or 100 gallon polyethylene tank with removable bolt-on cover with top mounted fill connection
- Tank is calibrated in gallons for visual check of level
- Regenerative type turbine pump, 1/2 HP, TEFC
 - Bronze fitted construction, 316 SS shaft, carbon/ceramic shaft seal
 - 6.2 GPM capacity @ 56.4 PSI (130 ft. total head)
- 2.1 gallon expansion tank and pressure relief valve with return line
- NEMA 3R pressure switch factory setting: cut-in 40 PSIG, cut-out 65 PSIG
 - Standard pressure range: cut-in 40 to 170 PSIG, cut-out 65 to 200 PSIG; 20 to 40 PSIG differential
- Liquid-tight electrical conduit with 120 VAC electrical connection (terminals included in control panel – customer is responsible for electric connection)
- NEMA 4X control panel with HOA switch and auxiliary contacts for remote monitoring of alarm and pump conditions
- Stainless Steel sealed pressure gauge
- Epoxy paint finish suitable for outdoor installation

JWOP 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 | TURBINE PUMP | TANK VOLUME | DIMENSIONS L x W | HEIGHT | SYSTEM CONNECTION | EST. WEIGHT |
|--------------|--------------|-------------|------------------|--------|-------------------|-------------|
| JWOP-53-030 | 1/2 HP | 30 GAL | 25" x 25" | 55" | 3/4" FNPT | 140 LBS |
| JWOP-53-055 | 1/2 HP | 55 GAL | 25" x 25" | 60" | 3/4" FNPT | 160 LBS |
| JWOP-53-100 | 1/2 HP | 100 GAL | 25" x 25" | 73" | 3/4" FNPT | 180 LBS |

Dimensions are subject to change. Shipping weights are approximate.



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