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JWC Representative:

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Submitted By:

Date:

Engineer:

Approved By:

Date:

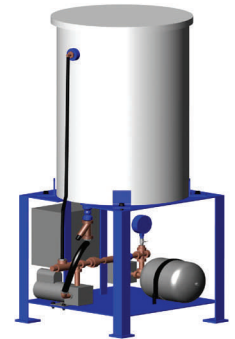
Contractor:

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## JWGP Series

# Glycol Make-up System Single Pump Package For Closed Loop Heating & Cooling Systems



### APPLICATION

- JWGP 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.
- 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)

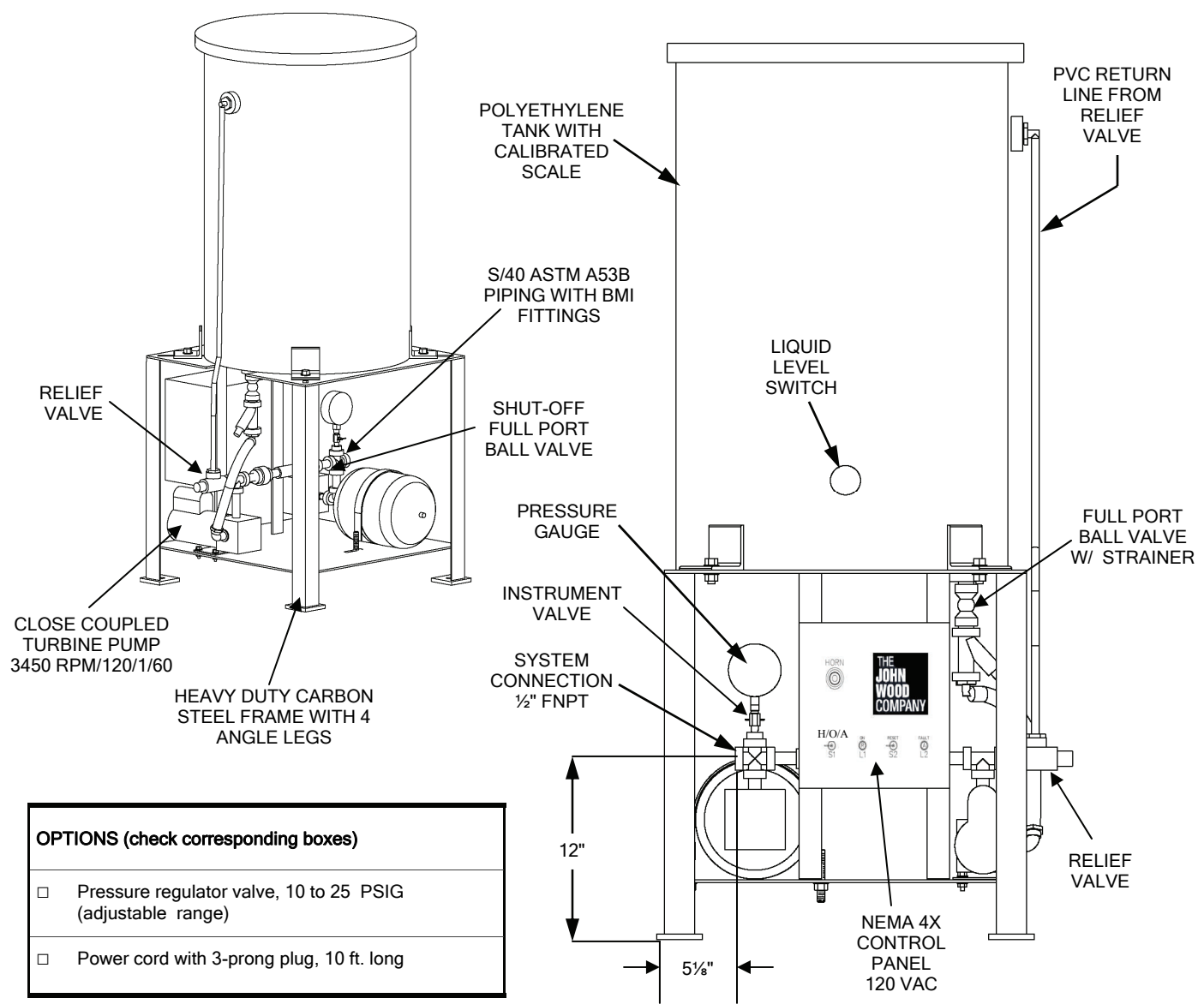
### TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans John Wood Model No. JWGP-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 cover and visible level scale, y-strainer, close coupled turbine pump, check valve, relief valve with return line, instrument valve, pressure gauge, pressure switch, float type level switch, expansion tank, and necessary piping. Discharge piping shall be Schedule 40 Carbon Steel with BMI fittings and ½" FNPT system connection. 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
- Regenerative type turbine pump, 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)
- Includes 2.1 gallon expansion tank, pressure relief valve with return line, and two (2) full port ball valves
- NEMA 1 pressure switch 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 HOA switch
- Auxiliary contacts for remote monitoring of alarm conditions and pump run
- ½" FNPT system connection

# JWGP 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
JWGP-53-030	1/3 HP	30 GAL	25" x 25"	55"	1/2" FNPT	140 LBS
JWGP-53-055	1/3 HP	55 GAL	25" x 25"	60"	1/2" FNPT	160 LBS
JWGP-53-100	1/3 HP	100 GAL	25" x 25"	73"	1/2" FNPT	180 LBS

Dimensions are subject to change.  
Shipping weights are approximate.



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