The CALMAC® GMS - liquid pressurization system is designed to maintain the proper volume of liquid in a building circulating loop, by monitoring the system pressure, and adding fluid from a reservoir to the system when the pressure drops below a set point.

**Features**
- Unit is able to be located outdoors with TEFC pump motor, hot dipped galvanized frame and a NEMA 3R control box.
- A 65 gallon vented reservoir, with 10 gallon graduations which can be used for mixing glycol/water solution.
- Alarms to indicate various conditions, which are detailed below.
- Pressure relief valve which protects against over-pressurization by the GMS. Not to be used in place of a properly sized system pressure relief valve.
- Check valve between building system and GMS.
- Service valve between the reservoir and the pump.
- Drain valve located after pump to allow removing most of solution from the GMS reservoir.

**Alarms** - Standard on the GMS liquid pressurization system are visible warning lights and electrical contacts (rated 4 amp at 230 Volts) for remote monitoring of alarms for the following conditions:
- Add Solution warning - Solution needs to be added to the reservoir, however GMS pump will continue to run until level reaches the Low Liquid Level alarm.
- Low Liquid Level - GMS pump is automatically turned off
- Low System Pressure - Possible leak in building system
- High Liquid Level
- Loss of Power – Low Liquid Level alarm contacts also close on loss of power

### Pumping Capacity:
- 4.1 G.P.M. @ 2 psig (15.2 l/s @ 14 kPa)
- 3.6 G.P.M. @ 40 psig (13.6 l/s @ 275 kPa)
- 3.1 G.P.M. @ 80 psig (11.7 l/s @ 550 kPa)

### Weight
- Empty - 225 lbs (102 Kg)
- Full (60 gal. of solution) - 745 lbs (338 Kg)

### Field Connections
- Electrical- 115 Volt, 15 Amps
  - 230 Volt, 7.5 Amps
- Plumbing-System: ¾ female N.P.T.
  - Drain: ½ female N.P.T.

### Dimensions
- 24 x 36 x 61.5 inches (w x d x h)
  - (61x91.5x156.2 cm)

Pressure switch set point is adjustable over the range 0.5 to 80 psig (3 to 550 kPa), with a fixed dead-band of 6 to 13 psi (40 to 90 kPa) (directly proportional to the set point). Factory settings for the pressure switch closures are SW1 = 15 psig (100 kPa) and SW2 = 10 psig (70 kPa) and the pressure relief valve is set at 75 psig (515 kPa). Switches SW1 and SW2 close on pressure fall.

**Sample Specification** - The liquid pressurization system shall be factory engineered and tested as a complete unit. The unit shall be approved for outdoor use using TEFC pump motor and hot-dipped galvanized frame. A minimum 60 gallon covered, vented, reservoir with 10 gallon graduations is required. It shall include an adjustable pressure relief valve which protects against accidental over-pressurization by the management system. Check valve, between building and filling system, and service valve, between reservoir and pump, are required. Alarms with both visual indicating lights and remote contact points are required for the following conditions: low system pressure, low liquid level in reservoir, high liquid level, loss of power, and low solution level. The minimum pumping capacity shall be 3 gallons per minute at 80 psig.