

# "GRE" Series

## RESIDENTIAL GLYCOL PACKAGE

### Specification WRTNGLYRESE

Written: February 2023



#### 1.0 DESCRIPTION

1.1 AUTOMATIC RESIDENTIAL GLYCOL FEED PACKAGE: Shall be manufactured by General Treatment Products, or approved equal and consist of a polyethylene tank, 4" threaded cover, low level float switch, 115 VAC motor driven diaphragm pump, pressure switch, check valve and strainer, carbon steel plumbing manifold and pressure indicator.

#### 2.0 MATERIALS

2.1 TANK AND FRAME: Polyethylene tank shall be industrial grade with a minimum wall thickness of .25". Tank shall have threaded 4" man way and molded in gallon markers. Pump and plumbing assembly mounts to top of tank, hardware included. 7-gallon and 15-gallon models come complete with equipment cover with lockable hasp to prevent tampering. Tank Volume Options:

- ☐ Code "07" 7 Gallon Tank (standard locking cover)
- ☐ Code "15" 15 Gallon Tank (standard locking cover)
- ☐ Code "35" 35 Gallon Tank
- ☐ Code "50" 50 Gallon Tank

2.2 PUMP: Glycol pump shall be capable of 1.0GPM at 50PSI and come complete with suction valve and strainer assembly and shall be 115 VAC, 1 Phase, 50/60 Hertz, totally enclosed type and be hard wired control circuit. DC voltage marine or RV pumps are not acceptable.

2.3a STANDARD PRESSURE SWITCH: Pressure switch and control circuit shall be designed for pressures from 6 to 30PSI and be adjustable with easy-to-use adjustment knob that requires no tools. Pressure switch shall turn on pump on falling pressure and turn off pump on rising pressure. Pressure Switch Options:

- ☐ Code "4" 6-30 cut-in and have a non-adjustable, 10-20% pressure differential
- ☐ Code "5" 20-120 cut-in and have a non-adjustable, 10-20% pressure differential

2.3b DIGITAL PRESSURE SWITCH: Pressure switch shall have backlight LCD screen and control circuit shall be designed for pressures from 1.4 to 80 PSI and be adjustable by up and down arrow keys. Pressure switch shall have ON/OFF button to take pump offline and red LED indication of control circuit. Pressure switch shall read in PSI and be factory calibrated. See options "DGR".

2.4 Optional CONTROLS and INDICATOR LIGHTS: All wiring shall be of ample gauge for supply voltage and amp draw. Controls shall be, but not limited to, pressure control switch, float switch, control relay. low-level indicator with pump interlock. Optional indicator lights shall be LED and designed for continuous use. See control options "-A".

2.5 DISCHARGE MANIFOLD: Discharge manifold is made from carbon steel and will be mounted securely to the top of the system. Manifold is to include brass tubing pump connection, pressure switch port, pressure gauge port and 1/4" brass mixing valve. System connection is 1/2" NPT.

2.6 CHECK VALVE AND STRAINER: Check valve shall be integral diaphragm type with cracking pressure of less than 1 PSI. Strainer mesh shall be less than 20 Mesh.

2.7 LOW LEVEL SWITCH: Polypropylene low-level switch with PVC fitting shall be interlocked with 5 AMP relay and stop glycol feed pump when liquid reaches factory set level.

2.8 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum operating perimeters of 20PSI @ 85F.

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2.9 OPTIONAL FEATURES: Select from the following.

- ☐ Code "DGR" Digital pressure control circuit
- ☐ Code "A" Power/Control indicator light package (Green power/Red Low level)
- ☐ Code "MNT" Polyethylene molded wall mounting bracket
- ☐ Code "ALM" 95 decibel audible alarm
- ☐ Code "DC" Remote dry contact on low level

### 3.0 WARRANTY

General Treatment Products Glycol Feed Systems are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship which develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.