

# "GDW" Series

## INDUSTRIAL GLYCOL FEED PACKAGE

### Specification WRTNGLYGDW



Written: January 2014

#### 1.0 DESCRIPTION

1.1 AUTOMATIC INDUSTRIAL DOUBLE WALL GLYCOL FEED PACKAGE: Shall be manufactured by General Treatment Products, or approved equal and consist of a 150% containment polyethylene tank and overflow basin, threaded manway, carbon steel wall mount frame, lockable NEMA 4X control panel, low level wand float switch, 1/3HP open motor bronze gear pump with internal pressure relief, pressure switch, pressure relief valve, check valve, suction strainer screen and wand assembly, PVC plumbing and reinforced butyl rubber hose assemblies.

#### 2.0 MATERIALS

2.1 PRIMARY TANK: Shall be OD green and sealed chemical storage type and shall include minimum 8" threaded manway with built in vent. Tank is standard heavy duty design and able to handle liquids weighing up to 1.9 specific gravity. Tank top or "Utility Cover", shall incorporate, but not be limited to, oversized pump mount area, 2" FNPT capped fitting and mixer mount pad. Primary tank shall be constructed of high density, low linear polyethylene as manufactured by Exxon Mobil 8460 LLDPE or approved equal. Tank Available sizes include:

- |                                     |                                     |                                    |                                     |
|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|
| <input type="checkbox"/> 18 Gallon  | <input type="checkbox"/> 35 Gallon  | <input type="checkbox"/> 65 Gallon | <input type="checkbox"/> 120 Gallon |
| <input type="checkbox"/> 160 Gallon | <input type="checkbox"/> 220 Gallon |                                    |                                     |

2.2 OVERFLOW BASIN: Shall be OD green and designed with weather guard collar and come standard in "U" shape design to utilize corner space and be able to view contents or leaks with out removing primary tank. Viewing port shall be 2" FNPT fitting with cap.

2.3 WALL MOUNT FRAME: Glycol package wall mount frame shall be constructed from carbon steel square tube and HR angle. Welded frame shall be of ample strength to hold gear pump, discharge plumbing assembly, control panel and have brackets for hanging level and suction wand when not in use. Frame shall be painted and primed with Alkyd enamel paint.

2.4 GEAR PUMP: Gear pump shall be close coupled with internal pressure relief valve. Gear pump shall be capable of a minimum 1.3 gallons per minute against 100 PSI. Motor shall be 115 VAC, 1 Phase, 60 Hertz, open drip proof type and be hard wired to pressure control circuit.

"-E4" Pump: **2.2GPM free flow, 1/3HP 5.6AMP**

2.1GPM @ 20PSI, 1.9GPM @ 40PSI, 1.7GPM @ 60PSI, 1.5GPM @ 80PSI, 1.3GPM @ 100PSI

Optional Pump Outputs Include:

"-E5" Pump: **4.4GPM free flow, 1/2HP 7.2AMP**

4.3GPM @ 20PSI, 3.8GPM @ 40PSI, 3.5GPM @ 60PSI, 3.2GPM @ 80PSI, 3.0GPM @ 100PSI

"-LP" Pump: **10.8GPM free flow, 3/4HP 11.5AMP**

10.7GPM @ 20PSI, 10.6GPM @ 40PSI, 10.3GPM @ 60PSI, 10.0GPM @ 80PSI, 9.7GPM @ 100PSI

2.5 PRESSURE SWITCH: Pressure switch and control circuit shall be designed for pressures as shown below. Pressure switch shall turn on pump on falling pressure and turn off pump on rising pressure. Standard pressure range is Code 1, 10-45 cut-in, 20-50 cut-out, 10-30 pressure differential. Optional Pressure Ranges Include:

- |  |
|--|
| <input type="checkbox"/> Code 2, 40-80 cut-in, 65-100 cut-out, 20-40 pressure differential |
| <input type="checkbox"/> Code 3, 3-10 cut-in, 9-30 cut-out, 6-20 pressure differential     |

P.O. Box 8697, Brea, CA 92822-5697 ♦ Phone: 714) 257-9165  
113 Viking Ave., Brea, CA 92821 ♦ Fax: 714) 257-9215

**[www.gtpcompany.com](http://www.gtpcompany.com) ♦ [customerservice@gtpcompany.com](mailto:customerservice@gtpcompany.com)**

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2.6 CONTROL PANEL: Polycarbonate NEMA 4X lockable control panel shall be of ample size needed for equipment and servicing of electrical components. With the exception of electrical motor starter and disconnect, all components shall be installed behind clear viewing panel and have locking hasp to deter tampering. Wiring diagram shall be color coded for easy trouble shooting. All internal wiring shall be of ample gauge for supply voltage and amp draw. Controls shall be, but not limited to, main power switch and indicator, pump manual/off/auto switch and indicator and red low level indicator. All indicator lights shall be LED and designed for continuous use. Control panel comes complete with 8FT 16GA 115VAC power cord.

2.7 DISCHARGE MANIFOLD: Discharge manifold is made from Sch80 PVC and will be mounted securely to the system. Manifold is to include brass tubing pump connection, pressure switch port, pressure gauge port, pressure relief port and brass isolation valve. System connection is ½" NPT.

Code "HM" Carbon Steel High Temp Manifold

2.8 PRESSURE RELIEF VALVE: Brass pressure relief valve shall have adjustment handle and have brass seat and elastomeric seal. Valve shall be of ample size to handle full pump.

2.9 CHECK VALVE: Back flow check valve shall be tapered body design with an enlarged valve chamber to reduce valve chatter and clogging. Valve shall be constructed of bronze and stainless steel and have a raised radius valve seat for positive seal.

2.10 LOW LEVEL SWITCH: Polypro low level switch with fitting shall be interlocked with 5 AMP relay and stop glycol feed pump when liquid reaches factory set level. Low level circuit will then turn on RED indicator light and initiate 115 VAC 10 amp circuit.

2.11 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum operating perimeters of 150PSI @ 85F.

2.12 OPTIONAL FEATURES: Select options from below.

Code "D" Dual Pumps with dual manifolds, control switches and indicators

Code "HM" High temperature manifold

Code "AL" 95 decibel audible alarm and silence switch

Code "DC" Remote dry contact on low level

Code "MX" Batch mixer, mount bracket and control switch

Code "HL" High level indicator

Code "TEFC" Totally enclosed Fan Cooled pump motor

Code "MTR/STR" Motor starter, 20 AMP

Code "AUX" Auxiliary pump adder (Standby)

Code "ALT" Alternating pump adder

Code "EMS05" Dry contact control box for up to 5 sensing points

### 3.0 WARRANTY

General Treatment Products Gly-Pack 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.

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