TransPAC™

Additive Injection System for Bulk Fuel Offloading

General Description

TransPAC is a complete stand-alone injection system designed to accurately inject performance additives during bulk fuel off-loading or in-line fuel transfer operations. TransPAC is an electronic controlled additive metering system similar in design to systems used by major oil companies throughout the world. Power is provided via two on-board solar panels and a battery pack thus eliminating the need for external power. Easy to use, a bulk fuel truck's off-loading hose is simply connected to the inlet of the unit and additve is automatically metered into the fuel at the prescribed injection rate. When fuel off-loading ceases, the electronic controller records transaction data resulting in verifiable accuracy.

Chemtec's TransPAC Injection System

Features

- **Automatic additive injection during bulk fuel off-loading operations**
- **No operator interface required**
- **No external power required**
- **Compact Easy to Use Design**
- **Accurate, Reliable & Safe**
- **Positive Displacement Additive Meter Provides Verification of Additive Volume Injected**
- **In-line Turbine Meter Provides Verification of Fuel Volume Off-Loaded**
- **Electronic Controller Provides Transaction Log for Verifiable Accuracy**
- **65 Gallon Additive Tank Includes Visual Sight Level Gauge**
- **Optional Cage Provides Component Security**

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Physical Installation

TransPAC is a small, light weight, skid mounted system designed to install near the bulk fuel storage tank. The system can sit on the ground or be mounted to a concrete pad or base. No power is required since the unit is powered via solar panels and a 12 vdc battery pack recharging system. Typically the discharge side of the unit is connected to the customer owned bulk fuel tank via a 2-inch fuel hose with camlock fittings which is provided with the unit.

Operation

Driver Operation - The truck driver simply connects the off-loading hose to the INLET camlock located on the unit and proceeds with normal off-loading operations.

Idle State - When no product is being off-loaded, the electronic controller enters an IDLE STATE.

Load State - Upon detection of product flow, the electronic controller enters the LOAD STATE and injects additive at the programmed treat rate based on the product flow rate. Product and additive volumes are monitored to ensure the programmed product-to-additive ratio is attained. LED lights indicate injector operational performance. Once product flow terminates and following a programmed timeout period, the electronic controller records the load transaction and enters into the IDLE STATE until the next product offloading sequence is initiated.

Specifications

Power	**Solar panels (2), Deep cycle wet-cell 12 VDC batteries (2)**
Accuracy	**0.5% of rate**
Additive Pump/Motor	**Magnetic coupled pump, 316 SS, 120 PSI maximum output, 12VDC**
Additive Meter	**Positive displacement type, 304 SS**
Controller	**PLC, 24 VDC fused power supply, 12 control inputs, 6 relay outputs**
Alarms	**Numerous performance alarms**
Inlet	**Camlock 3-inch, female**
Outlet	**Camlock 2-inch, male**
Discharge Hose	**2-inch x 10-foot hose with 2-inch male threaded pipe x female cam-lock**
Dimensions	**Approximately 48”Lx48”Wx36”H**
Weight	**350 pounds**

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