Triton-E Dehydration Station®

Introduction

The Triton-E Dehydration Station® is capable of removing 100% of free water and up to 90% of dissolved water from hydraulic systems. Water contamination in hydraulic systems can severely reduce the life of hydraulic components and shorten the useful life of fluids leading to more frequent fluid replacement. The Triton-E is designed to remove water from large reservoirs and systems with a 15 GPM flow. The Triton adjusts the inlet pump flow rate to match exactly to the outlet pump for a continuous flow through the reaction chamber improving efficiency of the water removal process. The Triton-E also has a particulate filter built into the system to remove particle contaminants at the same time. The entire system is controlled with a touch screen display which will automatically shut down the system when the water concentration falls below the desired set point. On-board diagnostics and system status are also displayed on the panel.
The Triton-E Dehydration Station® uses our patented mass transfer de-watering technology. Ambient air is conditioned to increase its water holding capability before injecting to the reaction chamber. Fluid is then equally distributed and cascaded down through reticulated media and the conditioned air stream. Water is transformed into water vapor and is expelled from the unit as moist air. The relative humidity of the incoming fluid is continually monitored by the integral TestMate® Water Sensor (TWS) and displayed.

Features

- High de-watering rates and particulate removal in one system
- Reduce fluid recycling cost
- Automatic shut-off after user programmed moisture level is attained
- No expensive vacuum pump to service
- Removes free and dissolved water from fluids
- Highly effective in low and high humidity environments

Specifications

Dimensions:	32” W x 59” L x 70.25” H
Dry Mass:	1000 lbs (453 kg)
Inlet Connections:	1 ½” MJIC
Outlet Connections:	1 ¼” MJIC
Flow Rate:	900 gal/Hr
Inlet Pressure:	Atmospheric
Outlet Pressure:	to 125 psi (8.62 bar)
Fluid Service Temperature:	50°F to 175°F (10°C to 79°C)
Fluid Viscosity:	70 to 2000 SUS (15-539 cSt)
Power Supply:	380 V/3/50 Hz, 10 amps 460 V/3/60 Hz, 7 amps 460 V/3/60 Hz. 22.5 amps w/heater 575 V/3/60 Hz, 5.5 amps 575 V/3/60 Hz, 18 amps w/heater

Attainable Water Content:	< 50 PPM
Relative Humidity Display:	Standard, 0-99% Range
Construction:	Base Frame: Carbon Steel Vessel: Stainless Steel Seals: Viton
Protection Class:	NEMA-2

Schroeder INDUSTRIES
Advanced Fluid Conditioning Solutions®

580 West Park Road | Leetsdale, PA 15056
ph. 724.318.1100 | fax 724.318.1200