

# Triton Dehydration Station™

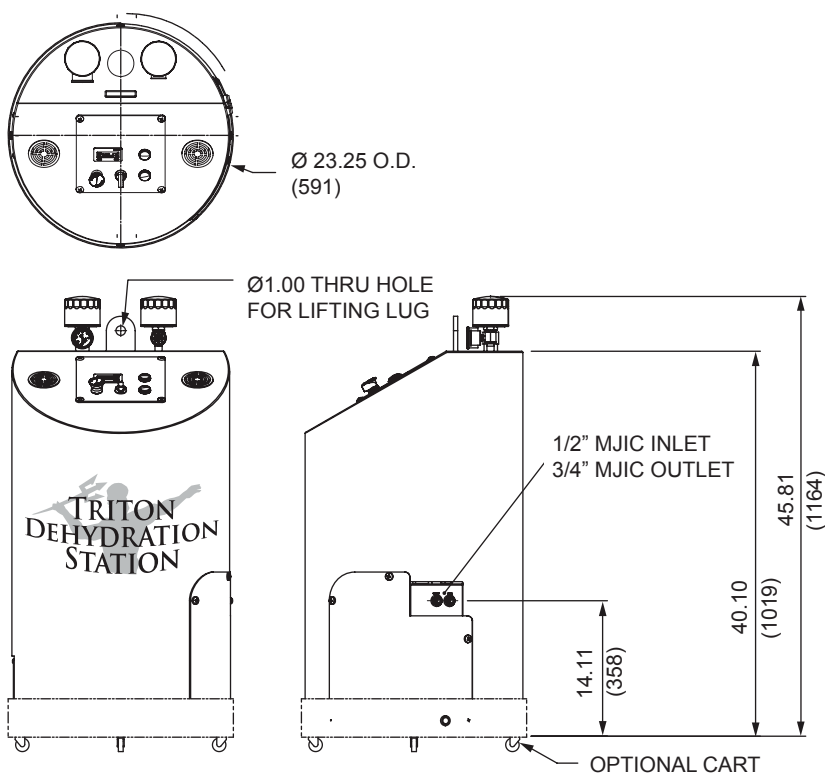
TRITON  
DEHYDRATION  
STATION

US Patent Pending

**The Triton Dehydration Station™ is capable of eliminating 100% of free and up to 90% of dissolved water.**

Water contamination in hydraulic systems can severely reduce the life of hydraulic systems and fluids. The Triton Dehydration Station is designed to eliminate 100% of free and up to 90% of dissolved water from small reservoirs, barrels, and gear boxes. Using a patent pending transfer process, the Triton Dehydration Station efficiently removes water and particulate contamination quickly in all environments. A proprietary design reduces aeration of free and entrained gases of returned fluid. The unit was designed to be extremely portable using either the central lifting point or the optional cart to access tight areas.

The Triton Dehydration Station uses a new mass transfer de-watering technology. Ambient air is conditioned to increase its water holding capability before injecting to the reaction chamber. Fluid is equally distributed and cascaded down through reticulated media and the conditioned air stream. Water is transformed to water vapor and is expelled from the unit as a moist air stream. The relative humidity of the incoming fluid is continually monitored by an integral TestMate Water Sensor (TWS) and displayed real-time on the control panel.



## Features

- High de-watering rates and particulate removal in one system
- Simple controls; RUN/DRAIN modes
- Reduce fluid recycling cost
- No expensive vacuum pump to service and replace
- Patent pending mass transfer technology uses ambient air to optimize and control de-watering rates
- Compact, efficient footprint - same diameter as a 55 gallon drum
- Remove free and dissolved water
- Highly effective in low and high humidity elements



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## Specifications

<b>Dimensions:</b> 46"H x 23.25"OD	<b>Fluid Service Temperature:</b> 50° F to 175°F (10°C to 79°C)
<b>Dry Mass:</b> 295 lbs (134 kg)	<b>Fluid Viscosity:</b> 1000 SUS
<b>Inlet Connections:</b> 1/2" MJIC	<b>Power Supply:</b> 110 VAC, 60 Hz, 12 AMP
<b>Outlet Connections:</b> 3/4" MJIC	<b>Attainable Water Content:</b> < 50 PPM
<b>Flow Rate:</b> 90 gallons/hour	<b>Relative Humidity Display:</b> Standard, 0-99% Range
<b>Inlet Pressure:</b> Atmospheric	<b>Construction:</b> Base Frame and Vessel: Stainless Steel Seals: Viton
<b>Outlet Pressure:</b> to 40 psi (2.76 bar)	

## Model Number Selection

### How to Build a Valid Model Number for a Schroeder TDS:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
TDS							

### Example: Note: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
TDS	A	V	S	A	B	01	

<p><b>BOX 1</b></p> <p>Dewatering Unit</p> <p>TDS</p>	<p><b>BOX 2</b></p> <p>Flow Rate</p> <p>A = 1.5 gpm Average</p>	<p><b>BOX 3</b></p> <p>Seals</p> <p>V=Viton</p>	<p><b>BOX 4</b></p> <p>Mobility</p> <p>S = Stationary M = Caster Base</p>	<p><b>BOX 5</b></p> <p>Voltage</p> <p>A = 110V60 Hz/ 1 Phase</p>
<p><b>BOX 6</b></p> <p>Air Source</p> <p>B = Integral Blower C = Compressed Air (supplied)</p>	<p><b>BOX 7</b></p> <p>Excellement® Z Media™</p> <p>01 03 05 10 25</p>	<p><b>BOX 8</b></p> <p>Option</p> <p>X = Class1, Div 2 explosion-proof</p>		

## Element Performance

Replacement Element Part Number	Replacement Air Breather Elements
9VZ1V = 1μ Excellement® Z Media	ABF - S40
9VZ3V = 3μ Excellement® Z Media	ABF - S40
9VZ5V = 5μ Excellement® Z Media	ABF - S40
9VZ10V = 10μ Excellement® Z Media	ABF - S40
9VZ25V = 25μ Excellement® Z Media	ABF - S40

## Replacement Elements

Media	Filter Rating	DHC (gm)
Z1	$\beta_{4.2(c)} \geq 1000$	55
Z3	$\beta_{4.8(c)} \geq 1000$	57
Z5	$\beta_{6.3(c)} \geq 1000$	62
Z10	$\beta_{10(c)} \geq 1000$	52
Z25	$\beta_{24(c)} \geq 1000$	48



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