



A DIVISION OF DAKOTA FLUID POWER, INC.

VACUUM DEHYDRATION SYSTEM FD-15



Are you aware that 75-80% of ALL hydraulic component failures are caused by fluid contamination, including moisture and particulate?

The Vacuum Dehydration Units can remove 100% of free and emulsified water and up to 90% of dissolved water from industrial oils. It can also remove 100% of free gases and up to 90% of dissolved gases.

Remove free and dissolved water down to 20 PPM.

General Overview:

The purpose of the FD-15 Vacuum Dehydration System is to serve as an oil treatment system. By removing water (dissolved, emulsified and free), gases and solid contaminants the oil can return to its original condition, and be reused in lubricating systems. Having clean, dry oil will allow hydraulic and lubricating systems to perform more efficiently and can result in significant financial gains. The need to purchase new lubricating oils can be reduced and in some cases eliminated completely.

Typical Industries:

- Power Generation
- Mining
- Pulp and Paper
- Steel
- Automotive Manufacturing

Typical Applications:

- Filtering Pulp and Paper lube systems
- Filtering steam turbine lube systems
- Filtering hydraulic reservoirs
- Filtering rolling mill lube tanks
- And many other industrial applications containing oil

VACUUM DEHYDRATION SYSTEM FD-15

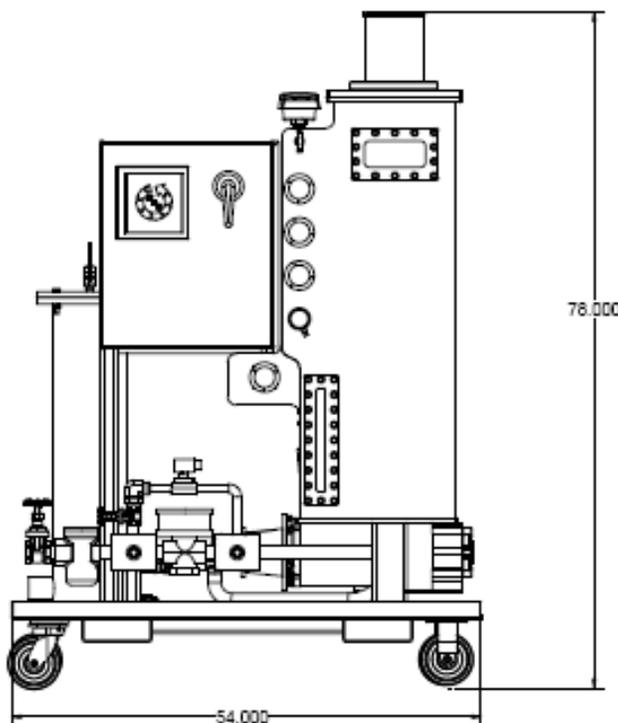
General Specs & Benefits:

Process:	Vacuum Dehydration
Chamber:	Pall Dispersion Rings
Chamber Vacuum:	22-27" Hg
Fluid Temperature:	Adjustable heater up to 180°F. Factory set at 145°F and is customer adjustable up to 165°F
Filtration:	Highly efficient β1000 filter element. Micron sizes range from 1UM to 25UM
Seal Material(s):	Buna N, Viton, EPDM or EPR
Max Fluid Viscosity:	ISO 680 or 4250 SUS
Inlet Pressure Max:	10" Hg Vacuum to 15 psig
Outlet Pressure:	65 psig max
Continuous Heater Flow:	Minimum 2-6 GPM continuous flow through heater to prevent oil coking
Console Remote Alarm:	250 V, 10 AMP dry contact rating
Wheel Configuration:	Caster wheels, pneumatic tires, fork lift pockets or floor mount
Water Removal Rate:	The removal rate of water will vary depending on fluid properties and application parameters
Operator Interface Panel Features:	<ul style="list-style-type: none"> • One button start/stop • Unattended operation • Automatic PLC based controls safely monitor the system and will shut it down if operating parameters move outside normal limits • Touchscreen Panel displays all conditions, including possible causes and remedies • Troubleshooting and help screens

Contaminant Type	FD-15 Capability
Water	Remove 100% free water plus 90% dissolved water
Particulate	ISO Cleanliness Code 13/11/8; per ISO 4406:1999
Gases	Remove 100% free gases plus 90% dissolved gases
Air	Remove 100% free air plus 90% dissolved air

Technical Specifications:

Flow Rate:	15 GPM
Vacuum Pump Flow Rate:	13 CFM
Heater Capacity:	18 KW @ 15 wsi
Motors	3 HP, 480 VAC, 3 Phase Other voltages are available
Plumbing Requirements:	Inlet: 1-1/2" FNPT Outlet: 1-1/2" FNPT
Approx. Dry Weight:	1300 lbs
Dimensions:	54"L x 31"W x 78"H
Start Up Bypass:	Standard
Condenser:	Optional
Water Monitor:	Standard



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