OFFLINE FILTRATION SYSTEMS

MAFH-A Series

Dehydration Station



Description

Water contamination in hydraulic systems can severely reduce the life of hydraulic systems and fluids. The MAFH is designed to eliminate 100% of free and up to 90% of dissolved water from small reservoirs, barrels, and gear boxes. Using a patented transfer process, the MAFH 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 due to small footprint and cart to access tight areas.

Principle of Operation

The MAFH uses patented mass transfer dewatering 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 AS 1000 AquaSensor and displayed real-time on the control panel.

Applications

- Steel and rolling mills
- Pulp and paper plants
- Power generation plants
- Tool machines / Plastic machines
- Hydraulic operated presses
- Fluid reclamation and recycling

Features

- · High dewatering rates and particulate removal in one system
- Simple controls; RUN/DRAIN modes
- Reduce fluid recycling cost
- No expensive vacuum pump to service and replace
- Patented mass transfer technology uses ambient air to optimize
- and control dewatering ratesRemove free and dissolved water
- Highly effective in low and high humidity environments

Technical Specifications

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Dimensions	45.2"(H) x 36.7"(W) x 20.3"(D)							
Weight	295 lbs (134 kg)							
Inlet Connections	1" SAE							
Outlet Connections								
Flow Rate 120 gallons/hour or 2.0 gpm								
Permissible Inlet Pressure Range	-5.8 psig (-0.4 bar) to 32 psia (2.2 bar)							
Max. Permissible Outlet Pressure 75 psig (5 bar)								
Fluid Service Temp. 100° F to 150°F (10°C to 79°C)								
Power Supply	110V AC / 60Hz / 1 Ph. (Standard; alternative power supply options available)							
Attainable Water Content	< 50 ppm							
Relative Humidity Display	Standard, 0-99% Range							
Materials of Construction	Reaction Vessel: Stainless steel Seals: <i>FKM (Viton</i> ®)							
Max. Permissible Fluid Viscosity	1000 SUS (Standard) 500 SUS (w/ Option 'X')							
Operating Fluids	Recommended for use with Hydraulic Fluids and Petroleum Based Fluids; (Consult factory for use with other fluid types)							

OFFLINE FILTRATION SYSTEMS

Model Code

		MAFH-A	- <u>v</u>	<u>- I</u>	<u>M</u> - M	<u>A</u> - <u>I</u>	<u>B</u> - <u>(</u>	<u>)5</u> ·
Series —— MAFH-A	=	Dehydration station						
Seals ——								
V	=	Viton®						
Mobility —								
S	=	Stationary						
М	=	Caster base						
/oltage —								
A	=	110V AC / 60Hz / 1 Ph.						
В	=	220V AC / 60 Hz / 1 Ph.						
С	=	220V AC / 50Hz / 1 Ph.						
Air Source]	
В	=	Integral blower						
Filter Eleme 01, 03, 05		Rating (micron)), 25						
Options —								

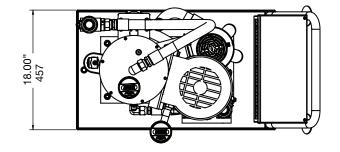
X = Class 1, Div 2 explosion-proof, Supplied Voltage: 460V / 60Hz / 3Ph (contact factory if this option is required in for your application)

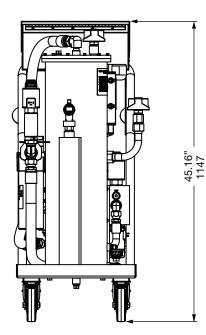
- H = 2.4kW Heater (Option ONLY available with 220V/60Hz/1Ph Voltage)
- Y = Built with CSA approved components (requires CSA inspection on-site)

For replacement element part numbers, please see Section E - REPLACEMENT ELEMENTS of this catalog.

Model Codes Containing RED are non-standard items – Minimum quantities and longer lead times may apply - Contact HYDAC for information and availability.

Dimensions MAFH-A-V-S-A-B-xx





Dimensions are for general information only.

