



20 GPM Vacuum Dehydrator

NEMA 7 Explosion Proof Water & Particulate Removal System



This system is suitable for use in Class 1, Div. 2, Groups B, C, and D hazardous locations.

PFP's 20 GPM Vacuum Dehydrator is designed to remove free, dissolved, and emulsified water from various types of lube, hydraulic, and gear oils down to a value as low as 20 PPM. With customization options available, our typical flow rates range from **2-100 GPM** and can be used on a wide range of products including gear oils, hydraulic oils, lube oils, phosphate ester, paper machine, and insulating oils.

This unit is also equipped with an industry standard filter housing which will accept high efficiency micro-glass filter elements rated Beta(c)>1000 Per ISO 16889.

FEATURES

- ▶ Dry Claw Style Vacuum Pump
- ▶ Anti-Wear Media
- ▶ Variable Frequency Drive
- ▶ Front Access to Controls & Valves

BENEFITS

- ▶ **Higher CFM** which maximizes water extraction rates & requires lower maintenance
- ▶ **Safety Feature** which allows operator to access all controls from the front
- ▶ **Speed control** which offers versatility on high viscosity oils or cold oil applications
- ▶ **Media in vacuum tower** never needs to be replaced, eliminating costly element changeouts



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SPECIFICATIONS

- ▶ **Flow Rate:** 20 GPM
- ▶ **Pre-Filtration:** Inlet Basket Strainer 20 Mesh
- ▶ **Filtration:** Equipped with a 304SS Industry Standard Absolute Rated Micro-Glass Filter Element in a hydraulic filter housing rated to 150 PSI maximum pressure
- ▶ **Heater:** 36 kW single circulation low watt density heater, NEMA 4/7 rated with process/high limit/shunt safety's
- ▶ **Heat Exchanger:** Electric fan driven NEMA 7 Rated
- ▶ **Pre-Filtration (Discharge Pump):** Inlet Basket Strainer 20 Mesh
- ▶ **Discharge Pump:** Internal gear w/ Pressure Relief Set @ 100 PSI
- ▶ **Discharge Pump (Drive Motor):** 480V / 3 Ph / 60 Hz TEFC. NEMA 7 Class 1 Div. 2 Rated
- ▶ **Base:** Carbon Steel with 2.0" spill containment rail, fork slots, and low point drain caster mount holes
- ▶ **Vacuum System:** Claw Style Type 43 CFM @ 3540 RPM Ultimate Vacuum 28.44 (In. Hg), Ultimate Vacuum Continuous Operation 27 (In. Hg) with NEMA 7 Class 1 Div. 2 rated motor
- ▶ **Safety Discharge Check Valve:** Inline Ball Style 5 PSI Cracking Pressure
- ▶ **Piping:** 304SS, Rated for Temperature to 225 degrees fahrenheit @ pressure rated to 150 PSI
- ▶ **Finish:** Industrial Type Powder Coating
- ▶ **Internal Coating:** Dry powder fusion bonded industrial powdered coating
- ▶ **Control Panel:** NEMA 7 Rated equipped with Industrial Grade NEMA 7 rated pilot lights, variable frequency drive, and Siemens PLC
- ▶ **Temperature/Hour Meter NEMA 7 Closure:** NEMA 7 rated port hole housing to contain the digital temperature controller, and hour meter
- ▶ **Hoses:** Qty. (2) 1.5" x 20ft. heavy duty petroleum transfer with MJIC x FMSJIC ends
- ▶ **System Voltage:** 480V 3 Phase 60 Hz (60 amp)
- ▶ **Dimensions:** 48"W x 80"L x 85"H Estimated
- ▶ **Weight:** Estimated 3,400 Lbs.
- ▶ **Oil Sampling Ports:** "Best Practice" Quick Connect with dust caps
- ▶ **Instrumentation:** Liquid filled industrial style panel mount
- ▶ **Inlet Safety Direct Acting Solenoid Valve:** 120 V / 1 Ph / 60 Hz. NEMA 7 Rated



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