



# IFM 20 GPM

## VACUUM DEHYDRATION OIL PURIFICATION SYSTEM (VDOPS)

### PRODUCT DESCRIPTION

Gaubert Oil's 20 GPM VDOPS system provides efficient water and particulate removal from hydraulic and lubrication oils. Ideal for applications requiring high cleanliness, this unit reduces water content to as low as 20 PPM and achieves an ISO 16/14/11 cleanliness level in multi-pass, ensuring optimal oil quality for sensitive machinery.

### KEY FEATURES AND BENEFITS

#### HIGH EFFICIENCY FILTRATION

- Achieves ISO 16/14/11 cleanliness with a Beta(c) >1000 rated 5-micron filter.

#### ADVANCED WATER REMOVAL

- Lowers water levels to 20 PPM for improved machinery reliability.

#### VFD-ENHANCED PERFORMANCE

- Variable Frequency Drive optimizes the system for high viscosity oils, cold starts, and restricted inlet conditions.

#### LOW MAINTENANCE VACUUM PUMP

- Equipped with a dry-running "claw" vacuum pump, delivering deeper vacuum with less maintenance.

#### INTEGRATED CONTROL PANEL

- NEMA 4 enclosure with comprehensive indicators and safety features, including automatic shutdowns for high level and differential pressure.



### GENERAL SPECIFICATIONS

- Max Flow Rate: 20 GPM (1200 GPH)
- Max Outlet Pressure: 100 PSIG
- Operating Vacuum: 18-28" Hg
- Max Viscosity: 3000 SSU (600cSt)
- Water Removal Efficiency: 100% Free & Emulsified, 90% Dissolved
- Particulate Filtration: Single 5-Micron Pleated Microglass Filter, Beta(c) >1000
- Gas Removal Efficiency: 100% Free & 90% Dissolved
- Dimensions: 62"L x 42"W x 76"H
- Weight: Approx. 2,800 lbs.

### ELECTRICAL SPECIFICATIONS

- Voltage: 480V, 3-Phase, 60 Hz
- Control Panel: NEMA 4 enclosure with on/off switch, phase reversal, VFD, low flow indicator, high vacuum level, high condensate, high differential pressure indicator, and hour meter.



A Division Of Gaubert Oil Company, LLC

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### SYSTEM COMPONENTS

#### PRE-FILTER ASSEMBLY

- 20-Mesh inlet strainer to capture bulk particles.

#### FILTER ELEMENT

- 5-Micron pleated microglass filter, Beta(c) > 1000.

#### VACUUM PUMP

- 43 CFM dry-running claw type for enhanced vacuum capabilities.

#### INLET OIL HEATER

- 36 kW heater with digital temperature control, dual thermocouples, and overheating protection.

#### CONDENSATE MANAGEMENT

- Air-cooled condenser with 5-gallon sump and manual drain.



### OPTIONAL ACCESSORIES

- **Inline Digital Particle Monitor:**  
Real-time ISO particle count display.
- **Inline Digital Moisture Indicator:**  
Real-time moisture content display in % saturation.
- **Automatic Water Drain:**  
Auto-drains condensate to minimize manual maintenance.

### ADDITIONAL INFORMATION

- **Base Construction:**  
Carbon steel base with spill containment lip and forklift slots.
- **Exterior Finish:**  
Oil and corrosion-resistant enamel with blue finish.
- **Seals:** Viton®



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