Vacuum Oil Purifier (VOP)

The best designed Vacuum Oil Purifier made, combining simple operation with higher performance, creating more value for your investment.

1. 304 Stainless Steel Vacuum Chamber, Water Sump, Oil Heater & Piping is standard.
2. Designed and Tested to provide 200% faster water extraction rates operating -25” Hg Vacuum @ 130 Deg. F.
3. Removing 100% Free and Emulsified Water in Oil and 98% of dissolved gasses in oil.
4. Water Removed from > 2800 PM to under 50 PPM @ 200% faster at -25” Hg @ 130 Deg. F.
5. Particulate Removed from ISO 22/21/19 to ISO 16/14/11 using 5 micron Beta(c) > 1000 Filter Elements.
6. Five (5) Variable Flow Models – 5 GPM, 10 GPM, 20 GPM, 50 GPM and 100 GPM.
7. High Capacity Inlet Filter Rated @ 250 Micron & Large Micro-glass (B(c)>1000) Outlet Filter to enable you to reach lower particle counts faster.
8. All Motors are protected by Variable Frequency Drives and Soft-Start for increased mechanical life – phase rotation hardware is eliminated.
9. Auto Alarm Self Check to ensure the system is ready and safe to operate.
10. Lowest Decibel Rating @ 65 dB under standard operating conditions.
11. Stainless Oil Heater is efficiently mounted directly to the vacuum tower.
12. All Vacuum Vessels and Discharge Filter Vessel with Double O-rings.
13. Patent Pending Design Features – Vacuum Tower with Stainless Diffuser Elements for greater surface area for higher mass transfer rates of dissolved water and gasses. Foam is virtually eliminated to allow you to operate at higher vacuum levels, thus greatly improving water removal rates while providing stable operation at higher vacuum levels.
14. Auto Water Drain, Moisture Indicator / Particle Counter Option and Protective Cage Options.
HYDROCARBON FILTRATION, LLC.
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Web: www.hydrocarbonfiltration.com

- Stainless Discharge Filter Housing, Vacuum Chamber and Water Sump with Double O-rings
- 3" Steel Tubing with Reflective Markers for System Protection (Bolt on Removable)
- #2 Bag Inlet Filter
  20 & 50 GPM
- 640 Micro-glass Filter Housing
  10, 20 & 50 GPM Models
- Large Stainless Water Sump
- Stainless 36 kW Heater on 20 GPM Model Shown Direct to Vac Tower
- Air / Fan Cooled Condenser
- 70 CFM Vacuum Pump protect by soft start
- Electrical Control Panel
- Vacuum Control Valve and Air Inlet Filter
- Tower Process Oil Level and Float Level Control Access
- Stainless Double O-ring Discharge Filter
- Protected Process Gauges

- Stainless Tower, Water Sump & Piping
- Stainless Discharge Filter Housing, Vacuum Chamber and Water Sump with Double O-rings
- 3" Steel Tubing with Reflective Markers for System Protection (Bolt on Removable)
- #2 Bag Inlet Filter
  20 & 50 GPM
- 640 Micro-glass Filter Housing
  10, 20 & 50 GPM Models
- Large Stainless Water Sump
- Stainless 36 kW Heater on 20 GPM Model Shown Direct to Vac Tower
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- Electrical Control Panel
- Vacuum Control Valve and Air Inlet Filter
- Tower Process Oil Level and Float Level Control Access
- Stainless Double O-ring Discharge Filter
- Protected Process Gauges
5 to 10 GPM Vacuum Oil Purifier (VOP)
Multi-Pass Performance:

Water Removed from > 2800 PM to under 50 PPM. 200% faster at -25” Hg @ 130 Deg. F.

Before: NAS 10
ISO 21/19/16

After: NAS 5
ISO 16/14/11

Systems are designed to work with ISO 85W/140 Gear Oil at 50 F.
Optional Features and Accessories:

## Options and Accessories

<table>
<thead>
<tr>
<th>Sizes &amp; Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Castors</strong></td>
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<tr>
<td>4”, 5”, 6” &amp; 8” Sizes.</td>
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<tr>
<td><strong>Protective Cage &amp; Lifting Structure</strong></td>
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<tr>
<td>Not standard but available on all models.</td>
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<tr>
<td><strong>SOOW Power Cable</strong></td>
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<tr>
<td>50’ is typical for most applications unless hardwired. Extra Length is Available.</td>
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<tr>
<td><strong>Automatic Water Drain</strong></td>
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<tr>
<td>Standard Systems are Manual Water Drain but Automatic Water Drain is Available.</td>
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<tr>
<td><strong>In-line Particle Counter</strong></td>
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<tr>
<td>Optional in Both NEMA 4 and NEMA 7.</td>
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<tr>
<td><strong>In-line Moisture Indicator</strong></td>
</tr>
<tr>
<td>Optional in Both NEMA 4 and NEMA 7.</td>
</tr>
<tr>
<td><strong>Combination In-line Moisture Indicator &amp; Particle Counter</strong></td>
</tr>
<tr>
<td>Optional in Both NEMA 4 and NEMA 7.</td>
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<tr>
<td><strong>Hoses</strong></td>
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<tr>
<td>15’ (On smaller systems) and 20’ Options in Petroleum Transfer are most common. Chemical Transfer Hoses are available for Fire Retardant Synthetic Fluids typically used in EHC Systems.</td>
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<tr>
<td><strong>Hoses End Connectors</strong></td>
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<tr>
<td>Standard are Aluminum Male / Female Camlock Connections. Options Include Stainless Steel Camlocks and JIC Male / Female Hose Connections</td>
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<tr>
<td><strong>Connection to Flare or Vapor Recovery Systems</strong></td>
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<tr>
<td>Our Vacuum Pump Discharge can be equipped with a check valve to enable connection to a 5 PSI Flare System. Used when gasses like H2S and Hydrogen are present in the oil.</td>
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</tbody>
</table>

Consult factory for added accessories and other custom options.