Hilco Coalescing Separator Systems

Remove Moisture and Particulate Contamination from your Steam and Gas Turbine Lube Oils
Sizing a System -- Your Hilco coalescer/separater should have a flow capacity of at least 1/2% of the total lube oil volume. The following chart depicts the maximum recommended size reservoir for each Hilco coalescer/separater system.

<table>
<thead>
<tr>
<th>Model #</th>
<th>Flow Rate</th>
<th>Reservoir Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>02CS10</td>
<td>10 GPM</td>
<td>2,000 Gallons</td>
</tr>
<tr>
<td>02CS30</td>
<td>30 GPM</td>
<td>6,000 Gallons</td>
</tr>
<tr>
<td>02CS60</td>
<td>60 GPM</td>
<td>12,000 Gallons</td>
</tr>
<tr>
<td>02CS100</td>
<td>100 GPM</td>
<td>12,000+ Gallons</td>
</tr>
</tbody>
</table>

Features
- System flow rates from 10, 30, 60, and 100 GPM
- Positive displacement oil pump with integral relief valve
- TEFC pump motor
- NEMA 4 electrical enclosure with controls
- ASME code pre-filter vessel
- ASME code coalescer/separater vessel
- Clean and dirty sampling ports
- Inlet basket strainer
- Automatic, pneumatically operated, water drain valve
- Manual moisture drain
- Liquid level sight gauge

Performance
- Particulate removal efficiency of 99.5% @ 3 micron
- Free and emulsified water content reduced to under 25 ppm
- Total water content to under 150 ppm based on an influent moisture content of 5% maximum

Options
- Explosion-proof electrical controls
- Low-watt-density oil heaters
- CRN or PED vessels
Portable Models

Features
• Flow capacities from 1 to 30 GPM
• Ability to service the needs of multiple units
• Customized electrical requirements
• Integral particulate filter and coalescer filter arrangement
• Liquid level sight gauge

Single or Multiple-Element Vessels

Features
• Flow capacities to 20 GPM
• Designed to side stream part of the existing lube oil pumps flow
• ASME Code and non-code designs available
• Duplex designs available for uninterrupted flow during element changeout
• Liquid level sight gauge
• Auto drain optional equipment

Custom Designs

Hilco’s staff of engineers is always willing to design a system for your particular needs. Call today with your specific application requirements.
Typical System Performance

The chart on the right depicts the moisture content of a 2,000-gallon steam turbine reservoir with a 10-GPM Hilco coalescer/separator installed.

After 16 hours of operation, the Hilco coalescer/separator was able to reduce the moisture content of fluid from 3,174 ppm to its natural saturation point.

Hilco has a large inventory of coalescer/separator element replacements available for immediate shipment. Call for assistance in determining the appropriate size.