CONDENSATE TREATMENT SYSTEMS

OSS oil water separator

Condensate treatment
The condensate generated by a lubricated compressor contains traces of oil. It must be treated appropriately, as oil poses an environmental risk. Atlas Copco condensate management solutions separate and safely dispose of the oil in compressor condensate before it enters the sewage system.

DEPENDABLY CLEAN
Atlas Copco’s OSS offers absorption-based condensate management for oil-injected piston and rotary screw compressors below 30 l/s (60 cfm). The oil water separator uses a new, advanced filter medium to remove oil traces to concentrations below 15 ppm¹. Easy to install, use and replace, the OSS is the affordable condensate cleaning solution for smaller air systems.

FEATURES AND BENEFITS

Clean water
After separation, oil-in-water concentrations are below 15 ppm¹.

Environmentally friendly
All materials are 100% recyclable.

Economic solution
Avoid collection by a costly third party.

Small footprint
Compact and lightweight design, optimized for small compressors.

Excellent performance
Thanks to the use of advanced absorption media.

Easy installation and replacement
A wall or plate mounting bracket is included.

¹ 15 ppm is generally well below the acceptance level for sewage disposal. Due to varying international and local guidelines, it is the user’s responsibility to consult local waste water discharge regulations and ensure compliance.

To verify the oil concentration at the OSS’ outlet, an optional sampling kit is available.
**ABSORPTION SIMPLICITY AND EFFICIENCY**

1. Condensate enters the OSS via the **inlet connection** at the top.
2. **Depressurization slits** in the top cap allow pressurized condensate to be fed into the separator.
3. During pre-filtration, the oil-water mixture seeps through **polypropylene**-based filter media, absorbing and capturing the oil but not the water.
4. In the post-filtration stage, **advanced new filter media** absorb the remaining oil.
5. The **anti-siphon vent** prevents the separator from completely draining when a flow is passing through the outlet connection.
6. Clean condensate exits from the **outlet** with almost no residual oil content. As a result, the condensate can be discarded into the sewage drain.

**APPLICABLE COMPRESSORS (FLOW < 30 L/S)**

**Oil-injected piston compressors**
- Automan
- LE/LT

**Oil-injected rotary screw compressors**
- GX 2-11
- GA 5-11
- GA VSD+ 7-11

**RECOMMENDED REPLACEMENT**

<table>
<thead>
<tr>
<th>System Condition</th>
<th>Recommended Product Replacement in Running Hours</th>
<th>15 l/s - 30 cfm</th>
<th>25 l/s - 50 cfm</th>
<th>30 l/s - 60 cfm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold climate system FAD</td>
<td>6000</td>
<td>4000</td>
<td>3000</td>
<td></td>
</tr>
<tr>
<td>Mild climate system FAD</td>
<td>6000</td>
<td>4000</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Hot climate system FAD</td>
<td>6000</td>
<td>/</td>
<td>/</td>
<td></td>
</tr>
</tbody>
</table>

(1) Climatic conditions used in the table above are defined as follows:
- Cold climate conditions: ambient temperature 20 °C – relative humidity 50%
- Mild climate conditions: ambient temperature 25 °C – relative humidity 60%
- Hot climate conditions: ambient temperature 35 °C – relative humidity 70%

In very hot and humid climates, more condensate is generated during compression. The presence of extra condensate shortens the contact time in the OSS, leaving less time for the media to absorb the oil.

(2) The OSS is designed for mineral-based lubricants. It should not be used with synthetic polyglycol lubricants due to its increased solubility in water.

**Dimensions & weight**

<table>
<thead>
<tr>
<th>Connections</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Inlet</td>
<td>6 mm</td>
<td>10 mm</td>
</tr>
<tr>
<td>Outlet</td>
<td>1/4”</td>
<td>3/8”</td>
</tr>
</tbody>
</table>

Atlas Copco

www.atlascopco.com

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