Oil-Water Separators

**BENEFITS AND FEATURES**

- **HSP Series**: For flow rates from 90 to 720 m$^3$/h
- **HS Series**: For flow rates from 300 to 3,600 m$^3$/h
- Compact design, secure wall mounting and floor installation
- 3 resp. 4 connections for condensate inlet
- 3-stage combifilter (HSP Series)
- Document pocket for manual and service log

**HSP Series**

During the compressed air production water condensate is produced. The quantity of condensate depends on the size and operating time of the compressors and can vary from 10 to 10,000 litres per month! The condensate of oil-lubricated compressors can contain up to 2,000 mg oil per litre. According to the environmental protection legislation, the condensate must be cleaned from oil before discharging it into the sewing system. If not treated, the condensate must be collected and disposed of with certification by a specialised and licensed company.

The HSP series removes the oil from the condensate reliably by means of a combination of different filter materials. The water so purified with Hankison Oil-Water Separators complies with the WHG requirements. Hankison Oil-Water Separators HSP/HS Series are registered and approved by the German Institute for Construction Technique, Berlin (DIBT).

**General Data**

<table>
<thead>
<tr>
<th>General Data</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials of Recipient</td>
<td>Polyethylene / polypropylene</td>
</tr>
<tr>
<td>Materials of Filter</td>
<td>Polypropylene and activated carbon</td>
</tr>
<tr>
<td>Colour</td>
<td>Anthracite / white</td>
</tr>
<tr>
<td>Location</td>
<td>Indoors</td>
</tr>
</tbody>
</table>

1. Condensate feed
2. Chamber for expansion and deaeration
3. 3-stage combifilter
4. Settling and flotation chamber
5. Water discharge
6. Test set
7. Test valve
**HS Series**

1. **Condensate feed** is possible both under pressure and without pressure
   - The condensate is fed from the compressor, the tank or the dryer into the separator, if possible under pressure (4 connections ½”)

2. **Chamber for expansion and deaeration with activated carbon filter** to filter the exhaust air
   - An expansion and deaeration chamber assures a calm surface in the separator, even if the condensate is fed under pressure. The activated carbon filter eliminates the oil from the exhaust air.

3. **Settling and flotation chamber**
   - This is where the mechanical separation of oil from water takes place.

4. **Oil discharge**
   - The angle of draining/ discharging the oil is adjustable.

5. **Filtering**
   - Pre-filter: Filter of knitted plastic fibres (PP) filters out the larger oil droplets, thus relieving the activated carbon filter.
   - Activated carbon filter: Filters out all the remaining oil droplets and guarantees the high overall efficiency.

6. **Water discharge**
   - The remaining oil content of the water discharged is less than 10 mg/l if the equipment is correctly dimensioned. This water can be discharged directly into the sewers.

7. **Test valve**
   - The test valve permits very simply to take discharge water samples.

8. **Heating (auxiliary equipment)**
   - Thermostatically controlled heaters are available for outdoor installation.

9. **Oil-collect tank with overflow protection**

10. **TEST SET ... check-glass and oil test paper**
    - See check- and maintenance book

11. **Document compartment**
    - Operating instructions as well as the check- and maintenance book are at your fingertips at all times.

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### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate*</th>
<th>Dimensions</th>
<th>Volume of container</th>
<th>Weight</th>
<th>Connections</th>
<th>Filtration</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>m³/h</td>
<td>m</td>
<td>litre</td>
<td>kg</td>
<td>Condensate inlet</td>
<td>Water discharge</td>
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<tr>
<td><strong>HSP 90</strong></td>
<td>90</td>
<td>240</td>
<td>240</td>
<td>445</td>
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<td><strong>HSP 150</strong></td>
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<td>545</td>
<td>75</td>
<td>7</td>
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<tr>
<td><strong>HSP 210</strong></td>
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<td>285</td>
<td>285</td>
<td>610</td>
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<td><strong>HSP 320</strong></td>
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<td>908</td>
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<td><strong>HSP 720</strong></td>
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<td>965</td>
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<td><strong>HS 300</strong></td>
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<td>22</td>
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<td><strong>HS 480</strong></td>
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<td>1,160</td>
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<td>25</td>
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<tr>
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<td>1,450</td>
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<td><strong>HS 1800</strong></td>
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<td>90</td>
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<tr>
<td><strong>HS 3600</strong></td>
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<td>1,300</td>
<td>1,000</td>
<td>4,080</td>
<td>4 x 3.8</td>
<td>4 x 3.8</td>
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</tbody>
</table>

*Capacity valid for screw compressors using non-emulsifying oils. When using other oils or types of compressors, these figures have to be reduced (see maintenance book). Technical data and specification are subject to change without prior notice.