Oil-water separators

Mid-range separators from 120 to 2500 cfm capacity

ST separators for standard dispersed condensate

D active separators for treating difficult or emulsified condensate
Just 250ml of oil can cover acres of water surface, reducing the effectiveness of treatment plants, preventing oxygenation, and killing wildlife.

A modest 18kW compressor might generate close to ten thousand litres of condensate each year, often containing up to 1000ppm of oil and other waste at the point of discharge.

99.9% of condensate is water, so it makes sense to clean it on site before discharge to the sewer.

Outlet to the sewer system is controlled by local authorities, which do not usually allow discharges containing more than 20ppm of oil to be introduced to the drains. Expectations are that limits will reduce in the future; some European countries already insist on a maximum of 10ppm.

SEPURA offers the most economical, simple, reliable and environmentally sound method of complying with the legal requirements - with outlet quality better than 10ppm for up to 4000 hours of filter life in many applications. We also offer special filters for specific ‘problem’ condensates - call SEPURA for details.

This clever device is activated in seconds by the installing service engineer. The active strip gives a time based visual indication of the service interval, up to one full year.

A fresh indicator set is provided with each new service kit, while a fitment upgrade for existing separators is also supplied with each new service kit, ensuring the feature is available for retro-fit to older installed SEPURA separators.

The service life indicator can also be easily fitted to other makes of separator.

SILEXA™ ‘carbon-less’ filtration
Works first time - every time
100% performance on most synthetics
4000 hours filter life
Better than 5ppm achieved at installation
Won’t overflow
Consistent performance
Simple installation and no pre-soaking
Low maintenance
Rapid servicing
Lightweight handling
British designed and British built
10-year warranty - Terms & Conditions Apply

Sometimes, keeping it simple keeps it working!

With SEPURA there’s no moving parts and no stagnant reservoir of condensate to breed unhealthy bacteria. There’s no need to guess the height of the oil overflow because there isn’t one, so there’s no blockages or floods either. It also means there’s no oil container to deal with, because all the oil is retained in the filters. It’s easy to select the right SEPURA separator; it’s quick and foolproof to install; clean and simple to service, and we believe in most cases it’s also the most economical tool for the job.

Tens of thousands of installations world-wide experience SEPURA satisfaction.

In our experience, no ‘passive’ oil/water separator handles stable emulsions effectively. Something has to be ‘active’ to make that essential separation happen.

SEPURA ‘D’ has the active ingredient...
Our specially activated digester kits are purpose designed to deal with those difficult condensate mixtures that simply won’t separate in a simple filter - whether carbon, polypropylene, zeolite or any other ‘passive’ material.

SEPURA’s ingenious answer is an active biological creation that literally eats the oil, leaving clear water behind.

When compared to the expensive electro mechanical alternatives available, our digester kit offers a low-cost, easily maintained and environmentally sound answer to a problem that’s as old as the condensate management industry - but it took SEPURA to bring it to market.
Installation benefits

We recognise that space is at a premium - not least in the average compressor house. That’s one reason why the SEPURA oil/water separator is designed the way it is, with the smallest footprint of any separator size-for-size, with the ability to accept flexible tube to its inlet block, with no separate oil container, and with all servicing access from the top.

Bowman has a complete range of condensate management products working in harmony to make the job easy and the result first class.

International distribution

SEPURA products are available from our worldwide distribution network.

Subject to our Terms & Conditions our ‘no-quibble’ 10-year guarantee on separator quality and performance ensures that your peace of mind goes on and on across the lifetime of your compressor plant.

Contact Bowman for full distributor details.

Our chosen filter media is the outstanding SILEXA™

Throughout thorough trials this patented media has been shown to be lighter, 20% more absorbent per weight and cleaner compared to other OEM products.

For more information on SILEXA™ please visit our website.
SEPU RA ST oil/water separator specifications assume well-maintained compressor plant and reasonable operating conditions. Performance on mineral or mineral-based lubricants should be as above, irrespective of compressor type, condensate drain technology or climate, provided the condensate produced is not a stable emulsion.

Where stable or difficult emulsions are encountered, choose the SEPU RA ‘D’ separator with its special digester service kits designed for the task.

Polyalkylene glycol (PA G) coolants/lubricants present a different challenge as they are based on water-soluble components. Free (non-dissolved) components will be removed by SEPU RA ST or D separators leaving a ‘clear’ outlet fluid, but we advise that the separator should be down-rated to 50% of normal capacity to allow more time for adsorption to take place.

IMPORTANT NOTE: SEPU RA uses its proprietary filter medium SILEXA™ in genuine SSK service kits. Ordinary carbon bags would reduce the separators’ capacity by at least 20% and their service life by 50%. Our digester kits are carbon-based but specially treated to handle emulsified condensate. Untreated carbon will inevitably fail in such applications.

**Mid-range separator specifications**

<table>
<thead>
<tr>
<th>Normal dispersed condensate</th>
<th>SEPU RA ST Type</th>
<th>Max capacity (cfm/m³/min)</th>
<th>SSK Filter service life</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SEP 120 S</td>
<td>120 / 3.4</td>
<td>4000 operating hours - for use with non-emulsified ‘normal’ condensates</td>
</tr>
<tr>
<td></td>
<td>SEP 360 S</td>
<td>360 / 10.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 900 S</td>
<td>900 / 25.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 1250 S</td>
<td>1250 / 35.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 1800 S</td>
<td>1800 / 51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 2500 S</td>
<td>2500 / 70.8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emulsified condensate</th>
<th>SEPU RA ST Type</th>
<th>Max capacity (cfm/m³/min)</th>
<th>DSK Filter service life</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SEP 120 D</td>
<td>120 / 3.4</td>
<td>2000 operating hours - for use with non-emulsified ‘normal’ condensates</td>
</tr>
<tr>
<td></td>
<td>SEP 360 D</td>
<td>360 / 10.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 900 D</td>
<td>900 / 25.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 1250 D</td>
<td>1250 / 35.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 1800 D</td>
<td>1800 / 51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEP 2500 D</td>
<td>2500 / 70.8</td>
<td></td>
</tr>
</tbody>
</table>

**Designed oil carry-over**

- At installation, better than 5 ppm - At end of life better than 20 ppm

**Inlet connections**

- 4 x R 1/2” expandable to 8

**Outlet hose connection dia**

- 1/2”

- 3/4”

**Standard appearance**

- SILEXA™ branded, ‘compressed-air blue’, PE material re-cyclable housing

**Test kit included**

- Yes

**Service kit part for ‘S’ separator**

- 120SSK
- 360SSK
- 900SSK
- 1250SSK
- 1800SSK
- 2500SSK

**Service kit part for ‘D’ separator**

- 120DSK
- 360DSK
- 900DSK
- 1250DSK
- 1800DSK
- 2500DSK

**Extra 4-port kit part #**

- 120Block
- 360Block
- 900Block
- 1250Block
- 1800Block
- 2500Block

**Unit Weights and Dimensions**

<table>
<thead>
<tr>
<th>SEPU RA ST Type</th>
<th>Height/length/width (mm)</th>
<th>Height/length/width (inches)</th>
<th>Shipping weight S/D (Kg) appx</th>
<th>Shipping weight S/D (lbs) appx</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP 120</td>
<td>500 / 215 / 257</td>
<td>19.7 / 8.5 / 10.1</td>
<td>2.7 / 3.5</td>
<td>6 / 7.7</td>
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<tr>
<td>SEP 360</td>
<td>654 / 345 / 282</td>
<td>25.7 / 13.6 / 11.1</td>
<td>3.5 / 4.0</td>
<td>8 / 11</td>
</tr>
<tr>
<td>SEP 900</td>
<td>989 / 432 / 495</td>
<td>38.9 / 17 / 19.5</td>
<td>6.5 / 8.0</td>
<td>11 / 16</td>
</tr>
<tr>
<td>SEP 1250</td>
<td>1015 / 485 / 495</td>
<td>40 / 19.1 / 19.5</td>
<td>14.8 / 20</td>
<td>33 / 44</td>
</tr>
<tr>
<td>SEP 1800</td>
<td>989 / 990 / 520</td>
<td>38.9 / 19.1 / 20.5</td>
<td>20 / 35</td>
<td>44 / 77</td>
</tr>
<tr>
<td>SEP 2500</td>
<td>1015 / 1098 / 550</td>
<td>40 / 43.2 / 21.7</td>
<td>31.3 / 41</td>
<td>69.90 / 96.125</td>
</tr>
</tbody>
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