HYDROCLEANER
THE EFFECTIVE WAY TO SEPARATE OIL/WATER EMULSIONS

HOW WE CREATE VALUE

- Recovering Water for Reuse
- Reduces waste Volumes by a factor of 20 (5%)
- Dramatically Reduces Disposal Costs
- Better for the Environment
- Improves Quality of Product

THE CHALLENGE

Many industrial processes involve the production of Oil and water mixtures in emulsion form that can be contaminated with solids or fines and can also be at warm temperatures. These mixed Oil : Water : Solids fluids, generally have to be moved off site since treatment can be very difficult using conventional water treatment technologies which can be irreversibly fouled. The volumes to be treated from most processes may not justify the investment in a complex plant, but nonetheless disposal costs can mount up and there can be a pressure to overcirculate that can affect product quality.

OVIVO’S SOLUTION

The Hydrocleaner is a compact, automatic package plant that uses a high performance, optimized membrane technology to remove solids; concentrates any oil and recover water for reuse or simple disposal. Contaminated water is fed in to the partitioned tank from where it is pumped through the ceramic membrane at high flow rate. The water flows through the membrane and is recovered in the other half of the tank. The remaining oily water and solids is retained in the flow through the surface of the membrane and returned to the dirty side of the tank where it is continually recirculated and concentrated. The unit is provided with a fully automatic back flushing unit to ensure the ceramic membrane is kept in optimum condition ensuring long filtration runs and reduced operating costs. The back flush unit uses a small volume of filtrate water to pulse back across the membrane against the filtration flow dislodging any films of dirt that may have accumulated.

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CASE STUDY

A manufacturer has a 75 kW compressor produces over 180 litres of condensate containing 1% oil per day. This contaminated water is being stored in 1,000 litre tanks which are collected and disposed by a contractor who removes 5 of these every month at a cost of €1 500 per month. If the client were to install an Ovivo Hydrocleaner the volumes for disposal would reduce to a single 200 litre drum per month which would be sold and collected as a by-product by an oil recycling company. The Hydrocleaner would pay for itself in less than a year reducing the need for storage of waste, creating a small revenue stream from a major cost and improving the environment.

“Separating Oil and Water for the Good of the Environment”

APPLICATIONS

- Compressor Condensate Treatment
- Turbine Wash Water Treatment
- Metal Machining Cooling Lubricant Clean Up
- Degreasing Bath Clean Up

MODELS

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Volume treated l/wk (gal/wk)</th>
<th>Number of Modules</th>
<th>Membrane Surface Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2</td>
<td>3,400 (896)</td>
<td>1</td>
<td>0,2 m² (2.15 ft²)</td>
</tr>
<tr>
<td>B4</td>
<td>6,700 (1,769)</td>
<td>2</td>
<td>0,4 m² (4.3 ft²)</td>
</tr>
</tbody>
</table>

Based upon 24hrs/day; 7 days per week operation

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