Oil Sweetening Package – Conventional

OVERVIEW
The Oil Sweetening Package removes hydrogen sulfide (H₂S) and naturally occurring sulfides from sour crude oil and condensate. The removal of H₂S from sour oil is called “oil sweetening.”

The process is ideal for lower to mid levels of H₂S concentrations. This Oil Sweetening Package allows for H₂S removal by introducing the chemical directly into the produced fluid, resulting in converted sulfides remaining in the fluid.

OPERATING PRINCIPLE
Produced fluids from the wells first enter a three-phase separator. Oil from the separator is sent to the Oil Sweetening Package, where it is directly treated with chemical to eliminate H₂S.

The overall oil treating process is simplified by injecting specialized chemical into the sour oil stream through a metered pump, mixer, or injection quill.

FEATURES
» H₂S is removed within process fluid through direct chemical injection
» Ideal for low to mid levels of H₂S concentrations
» Modular equipment packages with small footprints

BENEFITS
» Cost-effective for low concentrations of H₂S
» Simple equipment packages enable field operations with minimal operational support

APPLICATIONS
» Well activity (drilling, completions, underbalanced drilling, coiled tubing, well cleanouts/testing)
» Cleanup and flowback operations
» Exploration and appraisal well testing
» Early production facilities
» Sour fluid treatment
» Production, in-line testing (including multiphase flow metering)
## Equipment Specifications

<table>
<thead>
<tr>
<th>Package</th>
<th>Gas Process Tower</th>
<th>Chemical Circulation Pumps</th>
<th>Chemical Storage Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package Tag No.</td>
<td>V-100</td>
<td>P-100 A/B</td>
<td>T-100</td>
</tr>
<tr>
<td>Process Flow Rate</td>
<td>0 to 6000 bbl/d</td>
<td>24 Imp. GPM</td>
<td>1760 Imp. Gal Nominal</td>
</tr>
<tr>
<td></td>
<td>0 to 954 m³/d</td>
<td>6540 LPH</td>
<td>8000 L Nominal</td>
</tr>
<tr>
<td>Working Pressure psi (bar)</td>
<td>1440 (99.3)</td>
<td>1440 (99.3)</td>
<td>58 (4.0)</td>
</tr>
<tr>
<td>Service Temperature °F (°C)</td>
<td>-40 to 167 (-40 to 75)</td>
<td>-40 to 167 (-40 to 75)</td>
<td>-40 to 167 (-40 to 75)</td>
</tr>
<tr>
<td>End Connections</td>
<td>As Required</td>
<td>2 in. – 600# Inlet</td>
<td>3-in. BSPP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5 in. – 600# Outlet</td>
<td></td>
</tr>
<tr>
<td>Dimensions in. (m) (l x w x h)</td>
<td>N/A</td>
<td>92 x 54 x 56 (2.3 x 1.4 x 1.4)</td>
<td>480 x 96 x 102 (12.2 x 2.4 x 2.6) (Standard 10-Ft ISO Sea Container)</td>
</tr>
<tr>
<td>Design Code</td>
<td>ASME B31.3</td>
<td>EXP, Class 1 Div 1 (or Equivalent)</td>
<td>ASME Sec. VIII Div 1, ISO 1496-1</td>
</tr>
<tr>
<td>Utility</td>
<td>N/A</td>
<td>10 hp, 400V/3ph/50Hz</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Notes:**
- Meets NACE MR0175 requirements for all temperatures.
- Equipment is designed/certified to ASME Section VIII Div 1, DNV 2.7-1, 2.7-3, CE/PED, NORSOK standards as applicable and documented on the individual equipment specification data sheets (ESDS).
- These ratings are guidelines only. Refer to the equipment data book for individual equipment specifications.

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