**Key Benefits**

**Maximize Production**
- Startup fast and save space with our compact, integrated design and quick delivery
- Recover valuable natural gas liquids from the gas stream

**Lower Costs**
- Lower BTU of fuel gas to increase compressor horsepower and run time
- Obtain fast, professional service, support and spare parts from local technicians in every major oil & gas producing area

**Manage Risks**
- Safeguard investment with 12-month warranty from startup date or 18-month warranty from delivery date
- Optimize safety with the latest ASME standards code stamped on each unit ensuring consistent design and construction

**Standard Features**
- JT valve with pressure pilot controller
- ASME code gas/gas/NGL exchanger
- ASME code -100 °F cold separator
- Temperature controller
- Instrument gas/air manifold
- Sight glass assembly
- Methanol pump and delivery system
- Cold thermal insulation
- Hot gas bypass system for startup
- Relief valves
- Heavy-duty steel skid with lifting lugs
- 1300 psig MAWP upstream of JT valve outlet
- 500 psig MAWP downstream of JT valve outlet

**OVERVIEW**

The Exterran Production Solutions™ Gas Conditioning Skid is a compact, integrated, skid-mounted system designed for hydrocarbon dew point control and increased recovery of valuable natural gas liquids (NGL) in the wellstream following upstream dehydration.

Ideally suited for quick installation and short-term operating environments, our JT assembly saves you startup time and space, reducing hydrocarbon dew point to pipeline specifications. The package also reduces BTU content of fuel gas proportional to inlet BTU.

**OPERATION**

The assembly consists of a gas/gas exchanger with hot gas bypass, JT valve, cold separator, methanol injection system and control system.

Following gas/liquid separation and gas dehydration, high-pressure gas enters the assembly through the gas/gas/NGL gas exchanger for pre-cooling. Methanol is injected to prevent formation of hydrates, and the raw natural gas passes through a JT valve. The resulting pressure drop causes expansion of the gas and a significant temperature reduction due to the Joule-Thompson effect.

The cooled gas is routed to the cold separator to remove the condensed NGL. The outlet gas from the cold separator is routed through the gas/gas side of the exchanger for inlet cooling. The NGL from the cold separator is then to a separate optional pressurized NGL storage tank.
GAS CONDITIONING SKID
BTU Content Reduction & NGL Recovery

DIMENSIONS

Options Checklist
- Upstream dehydration
- Additional methanol injection pump
- NGL bullet tank

Notes

Precise dimensions should be confirmed prior to shipping.

<table>
<thead>
<tr>
<th>Standard Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Gas Rate (MMscfd)</td>
</tr>
<tr>
<td>Up to 1.0</td>
</tr>
</tbody>
</table>

Standard unit is typically about seven feet in height. Larger size and custom engineered packages are available. Contact your Exterran representative for details.

Sizing Requirements

<table>
<thead>
<tr>
<th>Inlet Flow</th>
<th>Pressure (psig)</th>
<th>Temp. (°F)</th>
<th>Rate (MMscfd)</th>
<th>C-10 Gas Analysis (check)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet</td>
<td>Pressure (psig)</td>
<td>BTU</td>
<td>Hydrocarbon Dewpoint (°F)</td>
<td></td>
</tr>
<tr>
<td>Sour Service</td>
<td>Yes / No</td>
<td>CO2 (mol%)</td>
<td>H2S (ppm)</td>
<td></td>
</tr>
</tbody>
</table>

To submit sizing information and obtain a quote, contact an Exterran sales representative or email PEQ.Proposals@exterran.com.

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