The Trifecta® X-Series is the preferred solution for reliable and continuous laser assist gases for delivery pressures up to 31 bar and flow rates up to 394 Nm³H. Drawing liquid from a standard bulk tank, the Trifecta system boosts the liquid pressure by alternately feeding two liquid cylinders equipped with innovative multi-function pressure building vaporizers. The Trifecta solution has no down-time and minimal losses when compared with other laser assist gas solutions. This convenient solution eliminates high-pressure pumps, compressors, cylinder cradles and surge tanks.

Product highlights

- System utilizes standard low-pressure bulk tank to lower investment and use existing assets
- No downtime – system maintains pressure and flow when bulk tank is filled and eliminates excessive product losses associated with high-pressure bulk tanks
- Cylinders switch by pressure instead of level to further reduce product loss and protect against pressure decay
- Robust design features streamlined all stainless steel piping with only five control valves and one integrated electronic control system (PLC) for increased durability and reliability
- Computer-controlled design simplifies installation, start-up and continuous operation
- Frame assembly features a protective top cover in a compact footprint with an elevated base for improved ventilation
- Available for Nitrogen, Argon or Oxygen* service

*Maximum delivery pressure of 24 bar for Oxygen service
TRIFECTA® X SERIES
LASER ASSIST GAS SUPPLY SYSTEM

SIMPLIFIED STAINLESS STEEL PLUMBING
WITH PROTECTIVE TOP COVER

SYSTEM REQUIREMENTS

- Power: 220-240 V, 16 A, 50 Hz
- Bulk storage tank with 5 bar minimum pressure
- External vaporizer, minimum 38 bar working pressure, sized for maximum flow rate
- Two piping connections to bulk storage tank (liquid withdrawal & low phase instrument line)
- High-flow pressure regulativ

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight X140</th>
<th>Weight X280</th>
<th>Weight X400</th>
</tr>
</thead>
<tbody>
<tr>
<td>X140</td>
<td>1347 mm</td>
<td>1400 mm</td>
<td>2440 mm</td>
<td>770 kg</td>
<td>795 kg</td>
<td>815 kg</td>
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</tbody>
</table>

NEW MODEL TRIFECTA X400

TRIFECTA X400 Up to 394 Nm³/h at 31 bar
Diagnostics system
Utilizes HP Technology

Schematic

Installation, application, and ambient conditions will affect performance.

Chart Industries Group D&S
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