The Trifecta® X-Series is the preferred solution for reliable and continuous laser assist gases for delivery pressures up to 450 psig and flow rates up to 15,000 scfh. 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 and Argon service
TRIFECTA® X-SERIES
LASER ASSIST GAS SUPPLY SYSTEM FOR INERT SERVICE (500 MAWP)

SIMPLIFIED STAINLESS STEEL PLUMBING WITH PROTECTIVE TOP COVER

System Requirements
- 15 amp, 110 VAC power, dedicated circuit (230 VAC panel also available)
- Bulk storage tank with 50 psig minimum pressure
- External vaporizer, minimum 600 psig working pressure, sized for maximum flow rate
- Two piping connections to bulk storage tank (liquid withdrawal & low phase instrument line)
- High-flow pressure regulation

Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Width</th>
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<tr>
<td></td>
<td>53&quot;</td>
<td>55&quot;</td>
<td>96&quot;</td>
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<tr>
<td></td>
<td>1347 mm</td>
<td>1400 mm</td>
<td>2440 mm</td>
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<tr>
<td>Weight X10</td>
<td>1750 lbs</td>
<td>795 kg</td>
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</tr>
<tr>
<td>Weight X15</td>
<td>1800 lbs</td>
<td>815 kg</td>
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</table>

Service | MAWP (psig) | MAOP (psig)* | Model | X10 | X15 |
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<tr>
<td>LIN</td>
<td>500</td>
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*Maximum Allowable Operating Pressure

Flow Rate scfh (Nm3H)

Pressure psig (bar)

500 (34.5) 400 (27.6) 300 (20.7) 200 (13.8)

0 (0) 5,000 (131) 10,000 (263) 15,000 (394) 20,000 (520) 25,000 (657)

Regional and operational conditions will affect performance.

Model

Service LIN LAR
MAWP (psig) 500 500
MAOP (psig)* 450 450
Model X10 X15

TRIFECTA® X-SERIES
LASER ASSIST GAS SUPPLY SYSTEM FOR INERT SERVICE (500 MAWP)

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