

# TRIFECTA® X-SERIES

LASER ASSIST GAS SUPPLY SYSTEM FOR OXYGEN SERVICE

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.



Models X5, X10 and X15



Visual Indication for Operation Modes



Integrated Bulk Tank Pressure Sensor



Dual Relief Valve Assembly



Two Main Connections Simplify Installation

## 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 in both low pressure (350 MAWP) and high pressure (500 MAWP) oxygen models
- Inconel and copper material used where required on high pressure oxygen unit
- Both models meet CGA guidelines for oxygen distribution systems



Innovation. Experience. Performance.™

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## 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

Length	53"	1347 mm
Width	55"	1400 mm
Height	96"	2440 mm
Weight X5	1700 lbs	770 kg
Weight X10	1750 lbs	795 kg
Weight X15	1800 lbs	815 kg

Service	MAWP (psig)	MAOP (psig)*	Model		
			X5	X10	X15
LOX	350	300	x	x	x
LOX	500	450			x

\*Maximum Allowable Operating Pressure

