# 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.



Visual Indication for Operation Modes



Integrated Bulk Tank Pressure Sensor



**Dual Relief Valve Assembly** 



Two Main Connections Simplify Installation



Models X5, X10 and X15

### **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



# TRIFECTA: X-SERIE

## LASER ASSIST GAS SUPPLY SYSTEM FOR OXYGEN SERVICE

#### SIMPLIFIED STAINLESS STEEL PLUMBING WITH PROTECTIVE TOP COVER



Sarvica	MAWP (psig)	MAOP (psig)*	Model		
Jei vice	MANN (psig)	MACI (psig)	X5	X10	X15
LOX	350	300	Х	Х	Х
LOX	500	450			Х

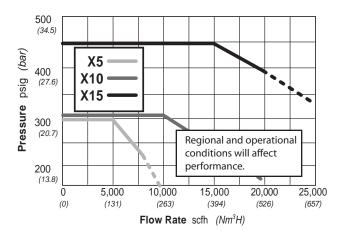
<sup>\*</sup>Maximum Allowable Operating Pressure

## **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

<u>Dimension</u> :	<u> </u>
Length	

Length	53"	134/ 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



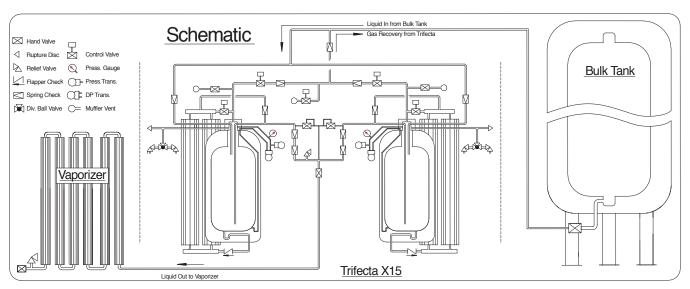


Chart Inc. U.S.: 1-800-400-4683 Worldwide: 1-952-758-4484

