

TRIFECTA-5X | 10X | 15X

LASER ASSIST GAS SUPPLY SYSTEM

Trifecta is the preferred solution for reliable and continuous laser assist gases for pressures up to 450 psi (31bar) and flow rates up to 425Nm³Hr. 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 gas solutions. This convenient solution eliminates high pressure pumps, compressors, cylinder cradles and surge tanks.

PRODUCT HIGHLIGHTS

- On-site 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
- 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 with lower maintenance
- Computerized, automatic operation requires no operator interface after installation
- Compact 47" x 55" footprint and height of 96" with a protective top cover for indoor or outdoor installation
- Tank-Tel and Cyl-Tel monitor systems for user-friendly pressure and level measurement and control
- **Models are available in 5X, 10X, and 15X to meet your gas needs!**

THE NEW TRIFECTA



Innovation. Experience. Performance.™

TRIFECTA-5X | 10X | 15X

LASER ASSIST GAS SUPPLY SYSTEM

SIMPLIFIED STAINLESS STEEL PLUMBING (top view)



System Requirements

- 15 amp, 110 VAC power, dedicated circuit
- Bulk storage tank with 50 psig minimum pressure
- External vaporizer, minimum 550 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	47"	1195 mm
Width	55"	1400 mm
Height	96"	2440 mm
Weight 5X	1700 lbs	770 kg
Weight 10X	1750 lbs	795 kg
Weight 15X	1800 lbs	815 kg

Available Models

Trifecta 5X Up to 5,000 scfh at 450 psig (131 Nm³H at 31 bar)

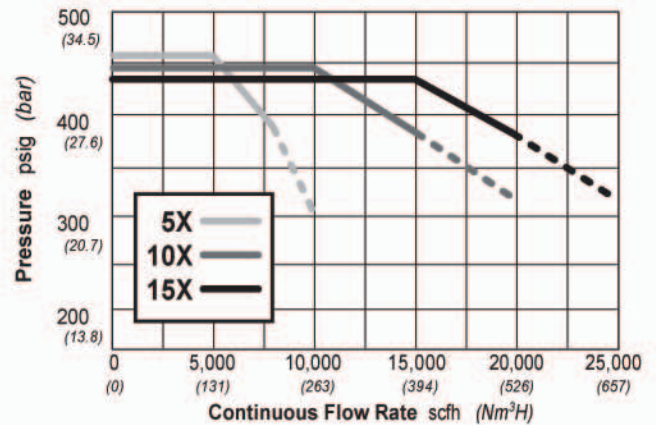
Trifecta 10X Up to 10,000 scfh at 450 psig (263 Nm³H at 31 bar)

NEW 15X MODEL TRIFECTA

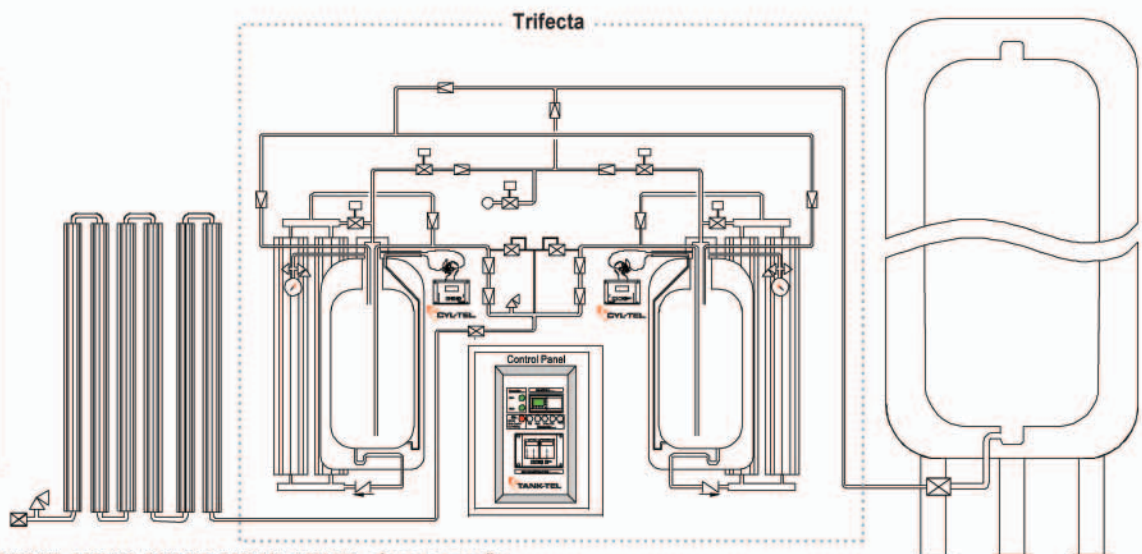
Trifecta 15X Up to 15,000 scfh at 450 psig (394 Nm³H at 31 bar)

- Free OnSite™ telemetry service for one year*
- Automated ball valves for **High-Flow** and reliability
- Diagnostics system
- Utilizes HP² Technology

*available in U.S. and Canada only. Customer responsible for phone line and connection



- Control Valve
- Burst Disc
- Relief Valve
- Hand Valve
- Pressure Gauge
- Spring Check
- Flapper Check
- Regulator



PATENT NUMBERS 5,924,291 - 5,937,655 - 5,121,609 - 5,231,838 - 6,542,848 - 6,782,339 - other patents pending

Chart Cryogenic Engineering Systems
(Changzhou) Co., Ltd
388 Hehai West Road, New District,
Changzhou, 213032 P.R.China



Tel: 0519-5966000
Fax: 0519-5966001
Website: www.chartchina.com
E-mail: chartchina@chart-ind.com