

Gas Booster/Amplifier



Gas Booster/Amplifier Systems

Gas booster systems produce high-pressure process gas supplies from lower pressure sources, typically boosting a shop air source. Base units provide up to 600 psig pressure output. Options include higher pressure outputs and process gas drying capabilities. They can be configured for single gas or dual gas boosting.



Features:

- Full microprocessor control with nonvolatile memory
- 30 gallon ASME coded tank rated for 600 psig
- Single step calibration
- Optional on-line concentration monitoring
- 40 character alphanumeric (AN) display
- Fault control system with (AN) display of fault
- High reliability encapsulated linear power supply
- Photo isolated opto relays with zero voltage turn on
- Keyboard control of operating pressure
- High flow air actuated ball valves
- On-Line display provides information on tank pressure, valve status, and system prompts
- Moisture-proof, water resistant stainless steel cased high resolution pressure transducers

vicleakdetection.com

Vacuum Instruments Corporation, LLC

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GAS BOOSTER/AMPLIFIER SYSTEMS

The gas booster or amplifier systems are designed to produce high-pressure process gas supplies from lower pressure sources. Typically these units are employed using a shop air source (80–100 psig), which is boosted to output pressures of 600 psig. Higher-pressure ranges are available (up to 1200 psig) upon request.

To minimize the effects of moisture condensation, VIC offers a heat-less regenerative gas dryer option for our booster products. Utilizing the pressure swing principle of operation ensures maximum removal of moisture contamination. A desiccant bed in one tower dries the incoming process gas stream, while a second tower is undergoing regeneration via a dry air purge sequence. The dryer bed uses the chemical-physical property of the desiccant material for absorption of water vapor and for its removal during the regeneration cycle.

Model Selection

Base units are available to provide up to 600 psig pressure output. Options are available to provide higher pressure outputs, and process gas drying capability.
Single Boost, rated @ 2.0 SCFM
P/N 925-906
Dual Boost, rated @ 4.0 SCFM
P/N 925-907

Performance

Rated Inlet: 125 psig (maximum)
Rated Outlet: 600 psig (maximum) Higher pressures available on request.
Boosted Throughput:
Single Boost 2.0 SCFM nominal
Double Boost 4.0 SCFM nominal

Pressure Measurement

Solid state 0–1000 psig adjustable pressure controller.

Valving

Rack and pinion pneumatically actuated high conductance ball valves.

Manifolding

Seamless tubing, helium leak tested to 1×10^{-6} atm cc/sec at 600 psig

Pressure Vessels

30 gallon ASME coded tank design for 600 psig service.

Power

105–125 VAC 50/60 Hz

Power Consumption

230 Watts

Gas Dryer option:

Rated inlet condition

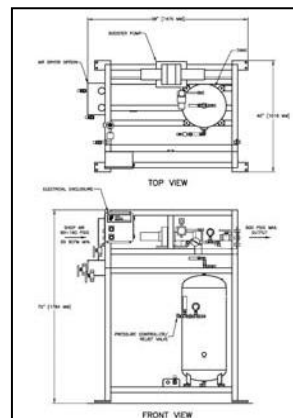
Temperature: 100°F (max)
Pressure: 150 psig (max)
Relative Humidity: 100% RH

Rated Outlet Condition

Dew Point: -40°F

Dimensions

58"(1476mm) W x 69.5"(1759mm) H x 40"(1016mm) D.



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* Performance determined in accordance with American Vacuum Society Standards; Specifications subject to change without notice.

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REV061618