

Gas Mixer/Blender

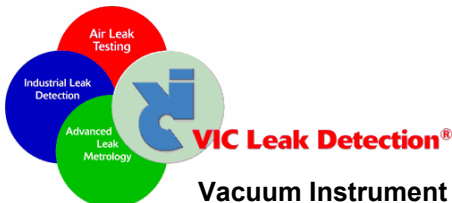
Gas Mixer/Blender Systems

The gas mixer provides a mixture of two gases by alternately filling a tank until each gas has contributed proportionally to the tank's final pressure. The volume ratio of each gas is determined by the selected mix percentage.



Features:

- Full microprocessor control with nonvolatile memory
- Dual 30 gallon ASME coded tanks rated for 600 psig
- Gas mixture selectability
- 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 mix percentage and operating pressure
- High flow air actuated ball valves
- Unique diffuser mechanism assures a proper and consistent gas mixture
- On-Line display provides information on tank pressure, valve status, and system prompts
- Moisture-proof, water resistant stainless steel cased high resolution pressure transducers



Vacuum Instrument Corporation

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GAS MIXER/BLENDER SYSTEMS

A microprocessor-based system designed to blend two gas components, typically helium and air. These systems provide a cost effective alternative to 100% tracer gas.

How It Works

Sequence of Operation – as easy as 1...2...3.

1. Fill Tank 1 with Gas A to a specified pressure.
2. Introduce Gas B to Tank 1 to complete mix operation.
3. Repeat above steps for Tank 2.

Model Selection

Base unit performs blending of two gas components based on pressure ratio. Options available include on-line gas mixture analysis, air driven pressure booster systems (up to 600 psi) for one or both gases.

Base Unit P/N 925-102

Base Unit with Gas Analyzer P/N 925-110

Gas Boost Options available on request.

Performance

Pressure Measurement

Two solid state all welded transducers rated for 0-1000 psig used for mixture control.

Two 21 2" liquid filled gauges mounted on each pressure vessel.

Pressure relief valves incorporated into each vessel for safety.

Valving

Rack and pinion pneumatically actuated high conductance ball valves.

Manifolding

Seamless tubing, helium leak tested to 1.0×10^{-6} atm cc/sec at 600 psig.

Pressure Vessels

Two 30 gallon ASME coded tanks designed for 600 psig service.

Electronics

Microprocessor-based housed in NEMA 12 enclosure.

Operator Interface

Menu-based operation with 2×40 character alphanumeric display. Includes data entry capability for gas mixture, remix and output pressure. Displays tank pressures and current gas mixture in operating mode.

Power

105–125 VAC 50/60 Hz

Power Consumption

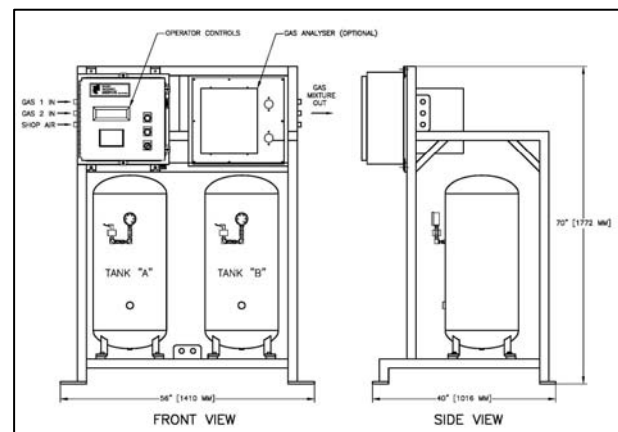
240 Watts (375 Watts with optional gas analyzer).

Dimensions

48" (1220mm) W x 70" (1778mm) H x 37" (940mm) D.

Weight

980 lbs. (445kg)



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