

# specifications

The Digital Medical Gas Manifold shall be an Amico Alert-2 Heavy Duty series. This manifold shall also include a five-year warranty which warrants a defect-free product.

The Manifold shall be a digital, fully automatic type and shall switch from "Bank in Use" to "Reserve" bank without fluctuation in delivery supply line pressure and without the need for external power. After the switch-over, the "Reserve" bank shall then become the "Bank in Use" and the "Bank in Use" shall become the "Reserve" bank. The manifold shall have a microprocessor based digital display panel. The unit will be compact, measuring 16-3/4" high x 17" wide x 9" deep.

The control panel incorporates three large, red, illuminated LED displays for the Left Bank, the Right Bank and for the Supply Pressure. The control panel also uses six LED's, two Green for "Bank in Use"; two Amber for "Bank Ready" and two Red for "Bank Empty".

**PLEASE NOTE:**

- The manifold shall be equipped with a 3/4" outlet shutoff valve. The valve comes complete with a 3/4" type "K" 6-3/4" [172 mm] long pipe extension and 1/8" port for an optional pressure switch.
- The header bars shall be equipped with emergency high pressure shutoff valves outside the cabinet to allow for emergency isolation of the header bars. The header bar shall incorporate integral check valves for each station. The manifold shall be equipped with limit switches and pressure transducers for indication and for operation of the fail-safe relay which transmits a remote Normally Closed signal to the master medical gas alarm.
- The header bar comes with universal mounting brackets to be mounted direct or with a 12" wall spacing when the optional wall mounting bracket is used. The header bar mounting brackets are only supplied with more than 10 cylinders, for a staggered header bar, and more than 4 cylinders for a straight header bar.  
  
All manifold regulators, piping and control switching equipment shall be cleaned for oxygen service and installed inside the cabinet to minimize tampering with the regulators or switch settings.
- The Manifold cabinets is for general purpose use. NEMA-4 is an option for outdoor use. Optional heater kits are available for N2O and CO2 manifolds.

The Manifold shall include two pressure relief valves, one high pressure 225 psi [1,551 kPa] and one low pressure 75 psi [517 kPa] for all gases except Nitrogen. Nitrogen has one high pressure relief valve at 350 psi [2,413 kPa] and one low pressure at 225 psi [1,551 kPa].

The Manifold is UL Listed to U.S. and Canadian safety standards.

# flow capacity

Oxygen, Medical Air, Nitrous Oxide & Carbon Dioxide:  
**4,500 SCFH [2,123 L/min]**  
Nitrogen:  
**6,000 SCFH [2,831 L/min]**



# features

- Fully automatic self-contained shuttle-valve with no electrical power required for switching
- Input power 110 VAC to 240 VAC, 50 to 60 HZ
- Microprocessor based control panel incorporates six LED's and illuminated LED display readable even in poor lighting conditions
- Units of measure switchable (psi/kPa/BAR)
- Two limit switches for positive indication of bank in use
- CGA gas specific header bar with integral check valves and cylinder pigtail assemblies (to be ordered separately)
- Dual line pressure regulators
- 3/4" isolation valve for supply line
- Manifold complies with NFPA-99
- Interface to Amico AIMS System

project

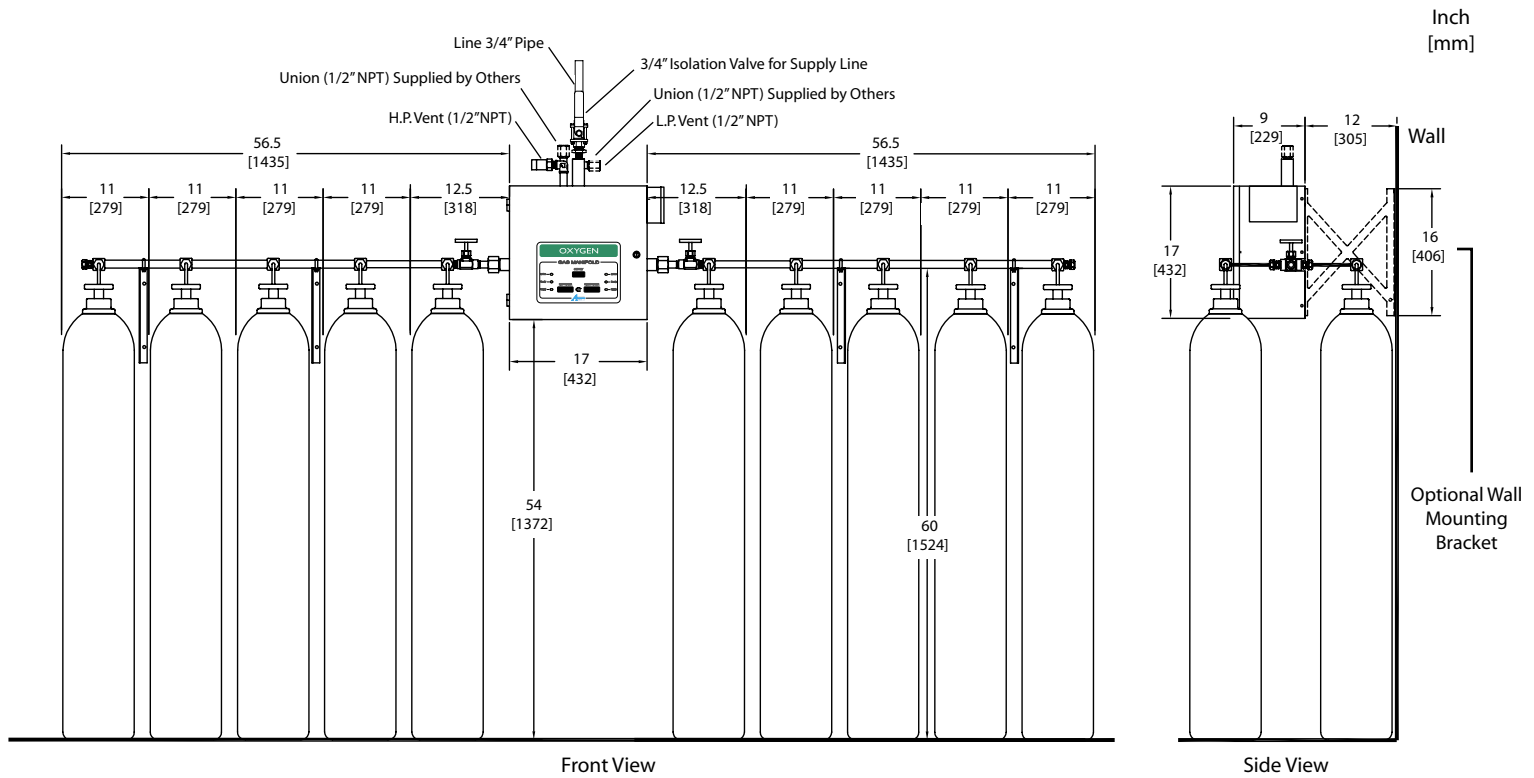
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## model numbers

### Manifold Cabinet:

- = Standard
- H = Heater (CO<sub>2</sub> or N<sub>2</sub>O only)

- U = English (NFPA)
- S = Spanish (NFPA)

**M2HD-D-HH-U-XXX**

D = Dual Line - NFPA

- HH = High Pressure
- LH = Liquid \* HP
- LL = Liquid

- The XXX defines the Gas:
- OXY = Oxygen
  - NIT = Nitrogen
  - AIR = Medical Air
  - CO<sub>2</sub> = Carbon Dioxide
  - N<sub>2</sub>O = Nitrous Oxide

### Header-bar Assembly:

- TS = Straight c/w Stainless Pigtailes
- TC = Straight c/w Copper Pigtailes
- XS = Staggered c/w Stainless Pigtailes
- XC = Staggered c/w Copper Pigtailes

Number of Cylinders (2\*2)

**M2-HBXS-04U-XXX**

- U = English (NFPA)
- S = Spanish (NFPA)

Wall Bracket for Header-bar Assembly: **M-X-HB-WBRKT**  
 X-Support Bracket for Manifold: **M2-X-MAN-SUP**

represented by: