

## specifications

The Manifold shall be a fully automatic type and shall switch from “Bank in Use” to “Reserve bank” without fluctuation in the final line pressure.

After the switchover, the “Reserve bank” shall then become the “Bank in Use” and the “Bank in Use” shall become the “Reserve bank” The control panel includes a line gauge, two bank gauges and incorporates six LED’s, two Green for “Bank in Use”, two Yellow for “Bank Ready” and two Red for “Bank Empty” on the front of the cabinet. The manifold consists of two bank regulator (dome –bias) used to reduce the cylinder pressure to the two line regulators which in turn controls the final line pressure. The manifold has an intermediate & line relief valve that is internally connected to a common vent port, terminating into a ½” FNPT pipe.

The unit shall be compact, measuring 19” high X 17” wide X 9” deep.

## notes

- 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” [172mm] long pipe extensions and 1/8” port for an optional pressure switch.
- The header bars shall be equipped with 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 is equipped with pressure transducers, which sends information to the main circuit board for operation of the fail-safe relay which transmits a remote signal to the master alarm or buzzer.
- 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.
- The Manifold cabinet has a Nema-1 rating for general purpose use.
- **The flow capacity of a nitrous oxide and carbon dioxide manifold depends upon the environmental conditions at the installation site and the number of cylinders in service. Installing them in a location that exposes it to an ambient temperature below 32° F (0° C) is not recommended.**
- The manifold shall be installed in accordance with the requirements stated by NFPA 99, CGA, and all applicable local codes. **Amico** recommends the control cabinet be located at an installation site protected from rain, snow and the direct rays of the sun.
- CGA gas specific header bar with integral check valves and cylinder pigtail assemblies (to be ordered separately)

## 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 with dual line regulators
- Input power 110 VAC to 240 VAC, 50 to 60 HZ
- Control panel incorporates six LED’s, when illuminated is noticeable even in poor lighting conditions
- 3/4” isolation valve for supply line
- Includes wall mounting bracket
- Removable cabinet enclosure made easy for installation and service
- Manifold complies with NFPA-99

project

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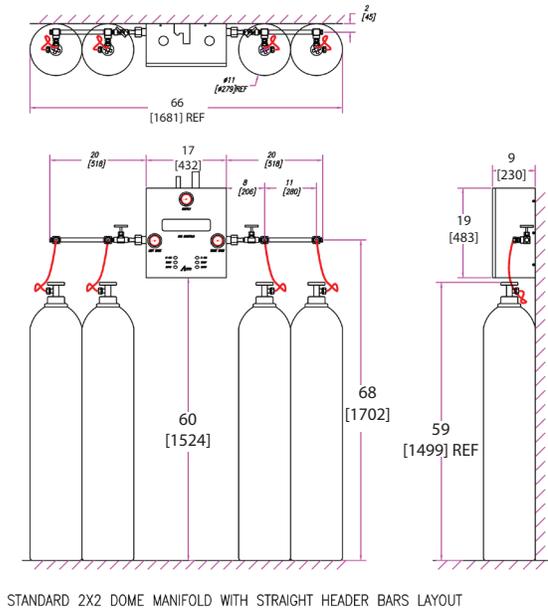


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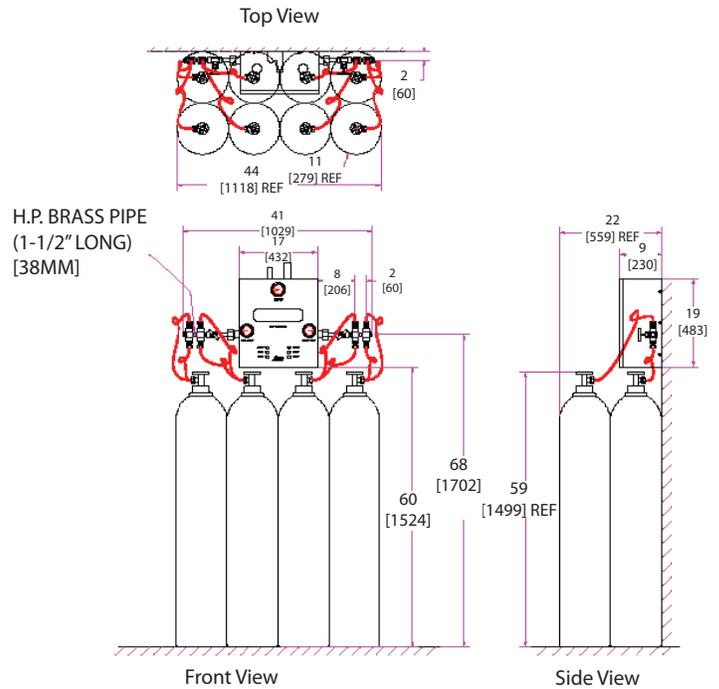
# automatic medical gas manifold - dome loaded regulator - NFPA

**Figure 1:** Standard Set-up

NOTE: DIMENSIONS ARE BASED ON APPROXIMATE DISTANCES!



**Figure 2:** Optional Set-up



Inch  
[mm]

**NOTE:** Header bar pipes can be changed from standard 10 1/2" to 8 1/2", 6" or 1 1/2" depending upon the requirements. Figure 2 shows optional set-up which utilizes the space for small rooms or closets.

## model numbers

### Manifold Cabinet:

U = English (NFPA)  
**M2HD-DL-HH-U-XXX**

HD = Heavy Duty

DL= Dome Loaded

HH = High Pressure

The XXX defines the Gas:  
OXY = Oxygen  
NIT = Nitrogen  
AIR = Medical Air  
CO2 = Carbon Dioxide  
N2O = Nitrous Oxide

### Header-bar Assembly:

The XX defines the type of Header-bar Assembly:

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

**M2-HBXX-XXU-XXX**  
U = English (NFPA)

The XX defines the numbers of cylinders:  
Example:  
2 X 2 use 04  
4 X 4 use 08

Wall Bracket for Header-bar Assembly: **M-X-HB-WLBRKIT**

represented by:

Oxygen Systems Plus, Inc  
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