

FULLY AUTOMATIC CHANGEOVER MANIFOLDS

SPECIFICATIONS

- Digital readout can display psig, KPa or Bar.
- Connects to remote alarm systems. (Up to 3 amps 30 VDC or 2 amps 250 VAC)
- Maximum inlet pressure 3000 psig. (2000 psig for CO₂ & N₂O systems)
- Maximum Flow:

FHM2	2000 scfh
FHM2 (CO ₂ & N ₂ O)	35 scfh
FHM2HL (CO ₂ & N ₂ O)	500 scfh
FHM2HP	2500 scfh
- Internal adjustable dual line regulators.

FHM2 & FHM2HL	30–70 psig
FHM2HP	100–190 psig
- Manifold outlet: 1/2" NPT.
- Relief valve outlet: 1/2" NPT.

Oxygen Only:

- Rigid Copper pigtails with check valves are required (NFPA-99 2002).

All Other Gases:

- Flexible pigtails with check valves.
- 1/2" Brass, silver brazed headers.

Western FHM2 Healthcare Gas Manifolds provide fully automatic system control. An integrated circuit board monitors cylinder bank pressure electronically, controlling changeover and eliminating the need to manually reset levers or valves. FHM2 Healthcare Manifolds meet NFPA-99 2002 safety and performance requirements. Easy-to-read digital displays show the line and individual bank pressures. A series of lights for each bank indicates whether the bank is "in service", "ready for use", or "bank depleted".



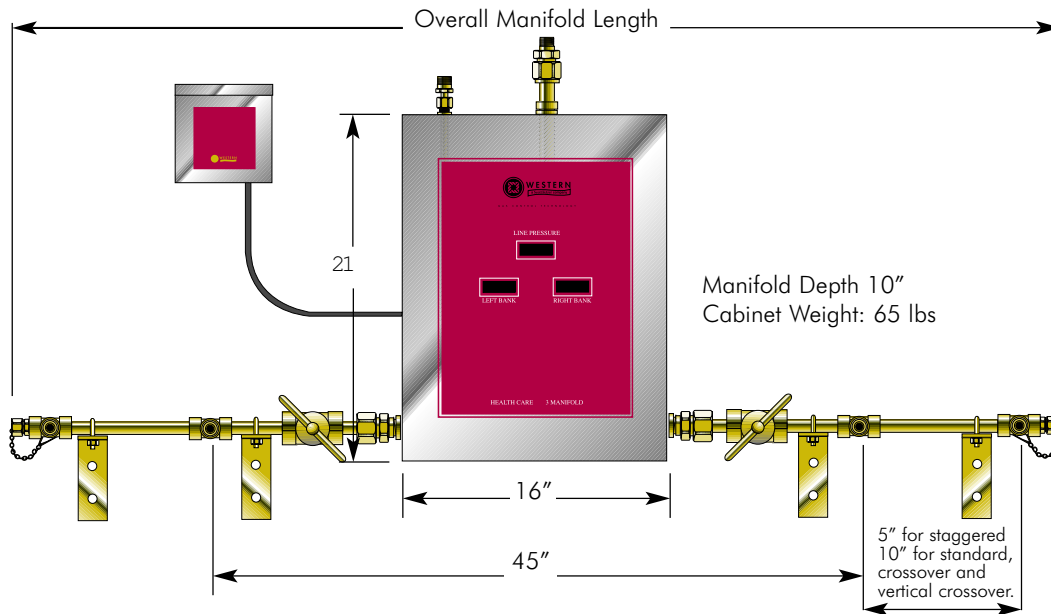
OPERATING TEMPERATURE	
Nitrous Oxide & Carbon Dioxide	20-120°F
Air, Helium, Oxygen & Nitrogen	0-120°F

- Cabinets must be protected from elements of weather.

HOW TO ORDER

Specify: Control Type (V) - Service (W) - Number of Cylinders (X)			
Example 1: FHM2-9-12VF represents FHM2 with oxygen gas service and a vertical			
Example 2: FHM2HP-7-6 represents FHM2HP with nitrogen gas service with a			
CONTROL TYPE (V)	GAS SERVICE (W)		# OF CYL'S (X)
FHM2 (30 to 70 psig)	(2) Breathing Air	CGA-346	
FHM2HL (30 to 70 psig) (For CO ₂ and N ₂ O – includes 500 scfh heater)	(4) Carbon Dioxide	CGA-320	
	(5) Helium	CGA-580	
	(7) Nitrogen	CGA-580	
	(8) Nitrous Oxide	CGA-326	
FHM2HP (100 to 190 psig)	(9) Oxygen	CGA-540	





Example: FHM2 - 9 - 4 - Oxygen (9=CGA-540) Manifold for 4 Cylinders

DESIGN LENGTHS

TOTAL NO. OF CYLINDERS	4	6	8	10	12	16	20
Standard (10" Centers) Overall Manifold Length	5' - 11" (1.80m)	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)	12' - 7" (3.84m)	15' - 11" (4.85m)	19' - 3" (5.87m)
Staggered Design (5" Centers) Overall Manifold Length	5' - 1" (1.55m)	5' - 11" (1.80m)	6' - 9" (2.06m)	7' - 7" (2.31m)	8' - 5" (2.57m)	10' - 1" (3.07m)	11' - 9" (3.58m)
Vertical Crossover (10" Centers) Overall Manifold Length	4' - 3" (1.30m)	N/A	5' - 11" (1.80m)	N/A	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)
Crossover (10" Centers) Overall Manifold Length	4' - 3" (1.30m)	N/A	5' - 11" (1.80m)	N/A	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)

Header Configuration (Y) Mounting (Z)

crossover bank of 6 cylinders per side which is mounted on a floor stand.
standard header configuration of 3 cylinders per side which is mounted on the wall.

HEADER CONFIGURATION (Y)

- BLANK - Standard 10 inches on center
- V - Vertical crossover 10 inches on center
- S - Staggered 5 inches on center
- C - Crossover 10 inches on center*
- U-Shaped - Drawing Required
- L-Shaped - Drawing Required

MOUNTING (Z)

BLANK = Wall mount

F = Floor mounted

* Floor Stand required on Crossover Style Headers