

Mounting Location: Gas mixer should be mounted indoors; operating temperature range is 40°F to 104°F. Gas mixer enclosure is rated NEMA 4X; the gas mixer may be mounted in wet/washdown areas.

Piping Notes: Piping should be chosen with consideration for the pressure and chemical nature of the gas, and sized large enough to deliver the proper pressure to the gas mixer under flowing conditions. Piping for both carbon dioxide and nitrogen gases must be at least 1/2" inside diameter. Smaller diameter piping will restrict the flow of gas into the gas mixer and cause a bad mixture.

Power Requirements: Gas mixers are designed for 115 VAC nominal, acceptable range 104 - 126 VAC, 50 / 60 Hz., 1.0 ampere or 220 VAC nominal, acceptable range 204 - 240 VAC, 50 / 60 Hz., 0.5 ampere.


Gas Temperature: The two supply gases should enter the gas mixer at nearly equal temperatures to achieve the proper mixing accuracy. If the gas supplies will be at significantly differing temperatures, the resultant mixing inaccuracy should be considered, and the proper corrective action taken. Design to prevent exposure of the gas mixer to high pressures or liquid gases should be practiced. Gas temperature range is 40°F to 104°F.

Inlet / Outlet Pressures: Standard inlet pressures are 100 - 125 PSIG and standard mixed gas outlet pressure is 10 - 50 PSIG. Variations from this will be shown on the data sheet in the manual.

Clearance: Leave at least 2 feet to the sides and 3 feet to the front of the gas mixer for maintenance.

Gas Piping: All gas piping to the mixer should be cleaned for food service.

Gas Systems: A variety of gas supply systems can be used with the gas mixer, although bulk liquid systems are most common. It is important that the supply system be able to provide the peak flow of gas demanded by the gas mixer when the gas mixer is filling its surge tank. This may be calculated by multiplying the gas proportion X 750 SCFH. For example, for a 30% carbon dioxide, 70% nitrogen mixture, the peak carbon dioxide flow will be 30% of 750 SCFH or 225 SCFH. The peak flow of nitrogen will be 70% of 750 SCFH or 525 SCFH.

H				 INSTRUMENT CORPORATION LA PORTE, INDIANA USA TITLE: INSTALLATION DRAWING FOR MODEL 8525 GAS MIXER	DATE: 8-17-04
G					SCALE: N.T.S.
F					DRAWN BY: DB
E					APPROVED BY:
D					SUPERSEDES:
C					DRAWING NUMBER:
A					1-12404
REVISIONS			BY	DATE	