The gas mixer enclosure should be mounted vertically within 1° of vertical.

Gas Mixing Accuracy: The gas mixing accuracy varies with the operating temperature. Refer to the Instruction Manual for additional information.

Gas Mixer Enclosure Mounting Orientation: The gas mixer enclosure should be mounted indoors or outdoors; operating temperature range is +10°F to 104°F.

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 major and minor gases must be at least 1/2".

Power Requirements: Gas mixers made for installation in the U.S. and Canada will require 115 VAC (± 10 VAC), 60 Hz, 1Ø. For gas mixers for other locations, see the Instruction Manual for power requirements.

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 are 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 +10°F to 104°F.

Inlet Pressures: Standard supply gas pressures are 100 - 125 PSIG. Variations will be shown on the Data Sheet.

Clearance: Leave at least 2 feet to the sides and bottom and 3 feet to the front of the gas mixer for maintenance. The front door of the gas mixer enclosure is hinged on the front left side.

Oxygen Piping: All oxygen piping to the mixer should be cleaned for oxygen service and compatible with oxygen. Do not use oxygen in gas mixers not specifically constructed for oxygen service (Model 8530OA).

Gas Temperature Requirement: Gas temperature requirement is +10°F to 104°F.

Gas Pressure Requirement: Standard supply gas pressures are 100 - 125 PSIG. Variations will be shown on the Data Sheet.

Inlet Pressures: Standard supply gas pressures are 100 - 125 PSIG. Variations will be shown on the Data Sheet.

MOUNTING BRACKETS 0 - 150 PSI PRESSURE RANGE AUTOMATIC CHANGEOVER MANIFOLD 125 PSI OUTLET 1/2" PIPE (MINIMUM) 1/2" PIPE SIZE INLET AND OUTLET BALL VALVES AND UNIONS SUPPLIED BY GAS CONTRACTOR GAS TEMPERATURE REQUIREMENT +10° TO 104° F EXTERNAL HEAT EXCHANGER OR LINE HEATER MAY BE REQUIRED BASED UPON ACTUAL GAS USAGE RATES TWO LIQUID CYLINDERS WILL TYPICALLY BE REQUIRED TO CONTINUOUSLY PROVIDE THE MAXIMUM ARGON FLOWRATE OF 638 SCFH (MODEL 8530CA30A1100 GAS MIXER) AND 712 SCFH (MODEL 8530OA10A1100 GAS MIXER) LIQUID CYLINDER MANIFOLD AUTOMATIC CHANGEOVER MANIFOLD 0 - 150 PSI PRESSURE RANGE BALL VALVE - 3 REO'D 1/2" FEMALE NPT CONNECTIONS ENCLOSURE BODY AND DOOR LOCKABLE STAPLES 1/2" DIA MOUNTING HOLES ELECTRICAL ENTRANCE THERMCO DRILLED 7/8" DIA. HOLE MIXED GAS TO PROCESS DRAIN 14" INLET FILTERS PROVIDED BY THERMCO THERMCO BALL VALVE - 3 REO'D UNION - 3 REO' ELECTRICAL ENTRANCE THERMCO MANUFACTURED BY LA PORTE, INDIANA USA INLET PRESSURES: STANDARD SUPPLY GAS PRESSURES ARE 100-125 PSI. VARIATIONS WILL BE ShOWN ON THE DATA SHEET. FOR MODEL 8530CA30A1100 GAS MIXER, EIGHT 50 POUND CARBON DIOXIDE CYLINDERS WILL TYPICALLY BE REQUIRED TO CONTINUOUSLY PROVIDE THE MAXIMUM CARBON DIOXIDE FLOWRATE OF 273 SCFH AT 30% CARBON DIOXIDE. THIS IS BASED UPON CONTINUOUS FLOWRATE OF 36 SCFH PER CYLINDER. FOR MODEL 8530OA10A1100 GAS MIXER, ONE STANDARD OXYGEN CYLINDER WILL PROVIDE THE MAXIMUM OXYGEN FLOWRATE OF 80 SCFH AT 10% OXYGEN.