

Model SG6500

Carbon Dioxide and Nitrous Oxide Gas Heaters

The Model SG6500 Gas Heater is designed for use with either carbon dioxide or nitrous oxide to prevent regulator freeze-up under high flow conditions. Installed between the cylinder valve and a suitable regulator, the heater warms the gas stream allowing for flow rates up to 160 scfh without regulator freeze-up.

The gas heater is thermostatically controlled at 160°F to prevent overheating of the gas. The heating element, encased in a polymeric body, efficiently radiates heat to the gas stream. The outer jacket of the heater provides insulation to allow the operator to install or remove the heater under warm conditions.

The Model SG6500 Heater may be used in conjunction with any regulator that is suitable for carbon dioxide or nitrous oxide use.



SG6500 Heater

Specifications

Maximum Operating Pressure: 3000 psig
 Voltage: 110 VAC
 Power: 120 watts, 1 amp.
 Maximum Flow Rate: 160 scfh (CO₂)
 Thermostat Setting: 160°F ±5°F
 Power Cord Length: 5½ feet with standard 3 prong plug
 Inlet and Outlet Connections: See Table I
 Dimensions (approx.): 6½" x 2½" x 1¾"
 Approximate Weight: 2 lbs.

Materials of Construction

Inlet and Outlet Connections: Brass
 Other Metal Parts Exposed to Gas: Brass
 Heater Block: Epoxy, Polymer

Table I

Part No.	Gas Service	Inlet Connection	Outlet Connection
SG6500-320	Carbon Dioxide	CGA 320	CGA 320 Adapter*
SG6500-326	Nitrous Oxide	CGA 326	CGA 326 Adapter*

* Suitable for direct mounting of a pressure regulator with specified CGA.

Model SG6545

Acetylene Flash Arrestor

Designed for use with acetylene to prevent flashback into a cylinder, this flash arrestor will extinguish a flash or flame by dividing it into hundreds of tiny parts, which instantly cool and die out before reaching the cylinder. It can be used in any cylinder lead not exceeding 3/8" diameter with flow in either direction. The Model SG6545 Flash Arrestor is Underwriters Laboratories listed for acetylene use only.

Note: The flash arrestor must be replaced after a flash or when the pressure drop through the arrestor reaches 10 psi or greater. It cannot be cleaned or refilled.



Model SG6545

Specifications

Max. Operating Pressure: 250 psig at 70°F
 Operating Temp. Range: -50°F to 200°F
 Max. Flow Capacity: 40 scfh acetylene
 Pressure Drop: 5 psi at 40 scfh flowrate
 Connections: ¼" NPTM by ¼" NPTF (flow can be in either direction)
 Dimensions: 1½" OD x 3⅝" Long
 Weight: 1 lb. 5 oz.

Materials of Construction

Body and End Fittings: Brass
 Internal Parts Exposed to Gas: Monel filter and fusible powdered metal

Table I

Part No.	Gas Service
SG6545	Acetylene