**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.

**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: 5 1/2 feet with standard 3 prong plug
- Inlet and Outlet Connections: See Table I
- Dimensions (approx.): 6 1/2” x 2 1/2” x 1 3/4”
- 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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG6500-320</td>
<td>Carbon Dioxide</td>
<td>CGA 320</td>
<td>CGA 320 Adapter*</td>
</tr>
<tr>
<td>SG6500-326</td>
<td>Nitrous Oxide</td>
<td>CGA 326</td>
<td>CGA 326 Adapter*</td>
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</tbody>
</table>

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

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**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.

**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: 1/4” NPTM by 1/4” NPTF (flow can be in either direction)
- Dimensions: 1 1/2” OD x 3 3/8” 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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
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<tbody>
<tr>
<td>SG6545</td>
<td>Acetylene</td>
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</table>