

Model SG7500

High Flow Electric Heater for Nonflammable Gases

Model SG7500 Electric Heaters are designed for use with nonflammable liquefied compressed gases to prevent regulator freeze-up and to assure uniform temperature under high flow conditions. Connected between the cylinder valve and a suitable regulator, the thermostatically controlled heater warms the gas stream allowing for flow rates up to 1000 scfh* (CO₂) without regulator freeze-up.

The heater is designed with a dry heat exchange medium made of aluminum and continuous high pressure stainless steel tubing with no internal joints.

Standard Features

- Heavily Insulated Cabinet remains "cool".
- Flow can be in either direction without loss of efficiency.
- Mounting Bracket provides for convenient, wall mount installation.
- Heater can be left on indefinitely, even under no-flow conditions, without resultant damage.
- C.S.A. Approved

Optional Features

- Manifold Adapter Block provides a means to install heater between gas cylinder and regulator with CGA connections.

Specifications

Maximum Operating Pressure: 3600 psig
 Maximum Flow Rate: 1000 scfh for CO₂*
 (at initial gas temperature 0°F and 170°F outlet)
 Voltage: 120 VAC
 Power: 1000 watts, 8.3 amps
 Thermostat Setting: 170°F ± 5°F
 Power Cord: 6 ft., 3-wire UL/CSA listed
 Tubing: 5/16" OD x .049 wall x 7" long
 Inlet and Outlet Connections:
 Male tube connectors (2) supplied:
 1/4" NPT male x 5/16" compression
 Dimensions: 11" x 5 1/2" x 4 1/4"
 Mounting Holes: 3 inch O/C
 Approximate Weight: 11 lbs.

Materials of Construction

Inlet and Outlet Connections:
 Type 316 Stainless Steel
 Tubing: Type 304 Stainless Steel
 Cabinet: Metal Enclosure

* Capacities for other gases will vary, depending of their specific heat.



SG7500 Heater



Optional 14-SS-320 Adapter

Table I

Part No.
SG7500

Optional Equipment

Equipment	Part No.
Brass Manifold Block with	
Brass CGA 320 x CGA 320 adapter	14-SS-320
Brass CGA 326 x CGA 326 adapter	14-SS-326
Brass CGA 580 x CGA 580 adapter	14-SS-580