

Series 1000 Automatic Electric Gas Heaters For Compressed Gases

Many liquefied gases cool dramatically under even moderate flow conditions due to the heat of vaporization when the liquid is converted to gas. This effect causes "freezing" in pressure regulators and other equipment resulting in pressure and flow fluctuations. These thermostatically controlled heaters maintain a constant temperature within close limits regardless of load variations, thus assuring a uniform temperature and constant gas flow at all times. All units are completely automatic and can be left on indefinitely, even under no-flow conditions without damage.



Features

- Prevents Regulator Freeze-Up
- Thermostatically Controlled
- Double Protection Against Thermal or Electrical Overload
- Continuous High Pressure Tubing –No Internal Joints
- Working Pressures up to 4600 PSIG
- Completely Dry - Heat Exchange Medium is Aluminum
- Heavily Insulated - Cabinet Remains "Cool"
- Can Be Left On, Even Under No-Flow Conditions
- Unlike Ambient Devices, Not Affected by Adverse Atmospheric Conditions

- Flow Can Be in Either Direction, Without Loss of Efficiency
- C.S.A. Approved
- One Year Guarantee on Material & Workmanship

Typical Applications

- Welding Operations
- Hospitals/Anesthesiology
- Bottling Plants/Wineries
- Foundries
- Food Packaging
- Semiconductor
- Gas Freeze-up Applications

Specifications

- Dimensions 11" high x 5.5" wide x 4.25" deep
- Tubing 5/16" x .049 continuous copper tubing
5/16" x .049 304 stainless tubing optional
- Working pressure Up to 2500 PSIG
(Stainless Steel: 4600 PSIG)
- Weight 11 lbs. Actual Weight
13 lbs. Shipping Weight
- Cord 6' 3-wire UL/CSA cord
- Power 120/240 volts A.C., single phase
8.3/4.2 amps (1000 watts)
- Mounting Holes 3" on Center

How to Order: Specify a number from each category

1. Select Basic Model

Model Number	Number Description
1000	1000 watts, 120 volts A.C., copper tubes
SS1000	1000 watts, 120 volts A.C., stainless steel tubes

2. Select Fittings (add to end of basic model #)

Fittings	Suffix Description
-320	CGA 320 female x male (Carbon Dioxide, CO ₂)
-326	CGA 326 female x male (Nitrous Oxide, N ₂ O)
-580	CGA 580 male x female (Nitrogen, N ₂)
-4	1/4" NPT male x male (brass)
-4SS	1/4" NPT male x male (stainless)

(Other fittings available on request)

Capacity (for Carbon Dioxide, CO₂)**

- Heating: 1000 CFH; 17 CFM; 467 liters/minute; 115 lbs./hr. (Heating valves are based on initial gas temperature of 0°F and outlet temperature of 170°F)
- Vaporizing: 184CFH; 3 CFM; 84 liters/minute; 22 lbs./hr. (Vaporization valves are based upon initial liquid temperature of 0°F and outlet temperature of 170°F)

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