

AIR HEATERS

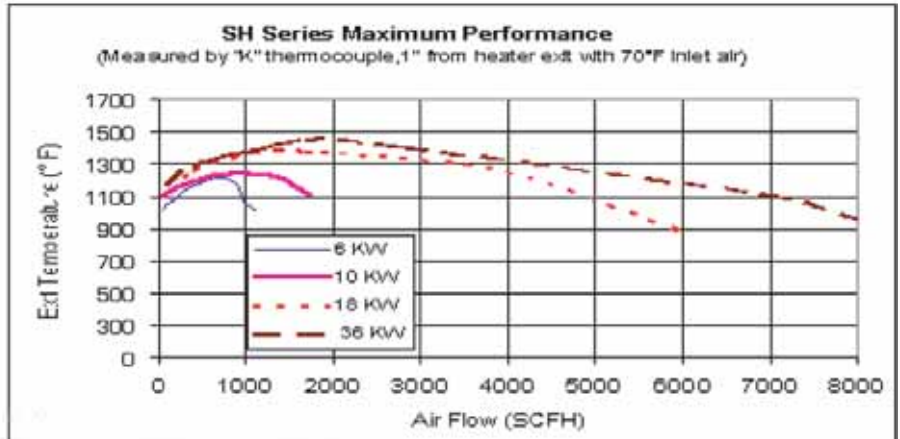
SH Series

- ✓ Air/Inert Gas
Temperatures to 760°C
(1400°F)
- ✓ 30 PSI rating
- ✓ Plug-in Replaceable
Elements
- ✓ Up to 36 kW in Compact
16" Size
- ✓ Revolutionary Heater
Burnout Protection

Basic Unit
\$600



OMEGA's SH Series air heaters are compact, safe and flexible heating units for heating air or inert gas up to 1400°F. The OMEGA® SH heater is available in wattages from 6 kW to 36 kW, and can be used with compressed air or a regenerative blower. Heater can be controlled with solid state relay or phase angle fired SCR power control. Sensors inside the heater sense both element temperature and inlet air temperature limit heater voltage and prevent element burnout if airflow is suddenly reduced. With this over temperature system, full power may safely be applied to the system with zero airflow. If operated correctly, the heater element will operate continuously for 5000 hours or longer. Unit consists of the heater plus a separately mounted control over temperature control board (not shown). Thermocouple and controller sold separately.



SPECIFICATIONS

Maximum Static Pressure of Heater:
30 psi

Maximum Air / Inert gas Temperature: up to 1400+ °F
(See Performance Curve for detail)

Inlet Temperature Rating: 300°F
(Note Over-temperature Board will limit power to the element once the inlet sensor exceeds 130°F)

Outlet: 1½" NPT (2" OD),
304 Stainless Steel

Inlet: 1¼" NPT (2" OD), High
Temperature Nylon

Dimensions of Heater:
12" L x 4" OD for up to 10 kW units.
16" L for 18 & 36 kW units

Heater Base Layout for Mounting:
3 x 2.38"; mounting screws, two ¼-20
TAP with 1.875" C-C.

Power for Heater: Voltage/phase
shown below

Over-Temperature Protection:
standard

Dimensions of Control Board:
6" L x 3.15" W x 1.6" H, mounts in snap
trac, trac mounted via 2 #8 mtg screws
5.63" C-C in center of trac

Power for Control Over Temp-Board:
120 Vac

Control Signal to Board: 4 to 20
mADC or pulsed 3-32 V dc driven
Closed Loop Control Systems.

To Order (Specify Model No.)

Model Number	Price	KW	Max. Volts	Max. Amp Draw	Replacement Element P/N	Price
SH-73343	\$1102	6	240-1 phase	25.0	SH-73351	\$600
SH-73344	1102	6	480-3 phase	7.2	SH-73352	600
SH-73345	1245	10	240-1 phase	41.7	SH-73353	718
SH-73346	1245	10	480-3 phase	12.0	SH-73354	718
SH-73347	2002	18	480-3 phase	21.7	SH-73355	1293
SH-73348	2400	36	480-3 phase	43.4	SH-73356	1660

Order example: SH-73345 is a 240V single phase heater with external control over limit board, \$1245.



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• Flow and Level

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• pH and Conductivity

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters