

## LOW FLOW AIR PROCESS AND LIQUID CIRCULATION HEATERS

### For In-Line Air, Gas and Liquid Heating

AHPF Series Starts at

**\$250**



- ✓ 316 Stainless Steel Construction
- ✓ Air/Gas Flow up to 15 CFM
- ✓ Air/Gas Outlet Temperatures up to 430°C (800°F)
- ✓ Pressures up to 100 PSI\*
- ✓ 50 Watts/Square Inch\*\*

The AHPF Series heaters are used to heat low flows of air, gas, water, or aqueous solutions. Applications include those where clean air is necessary, as in laboratories and environmental testing areas. The stream of air is heated by passing over an enclosed heated surface rather than directly over resistance elements. This method assures that no foreign matter will enter the stream of flow. The AHPF Series is also used as a miniature circulation heater for small volume of liquids as in photographic developer solution, chemicals, dyes, and inks.

Calculate the flow rate, temperature rise, or power requirement as described on page 120. For heating liquids, contact engineering.

The Thermocouple "T" fitting AHPF-NPT12 can be used with the subminiature thermocouple probes and with the SSLK series stainless steel compression fittings (see the OMEGA Complete Temperature Measurement Handbook and Encyclopedia®) and with stainless steel compression fittings (Model SSLK-18-14) to monitor or control temperature at the outlet of the AHPF series heaters.

### SPECIFICATIONS

**Cross Sectional Area:** 0.152 sq. inches

**Pressure Rating:** Up to 100 PSIG

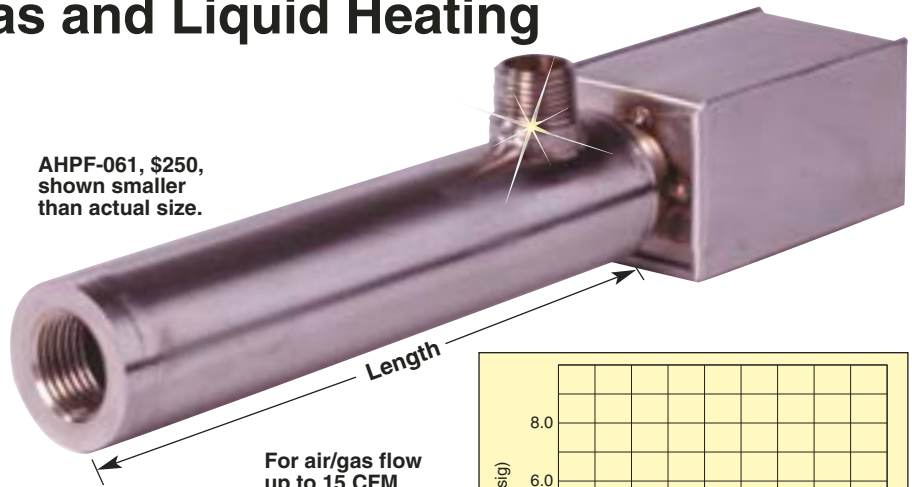
**Wattage Tolerance:** +5, -10% or better at the voltage specified

**Outside Diameter:** 32 mm (1¼")

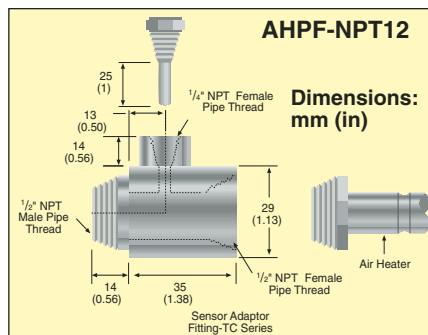
**Inlet:** Male ¾" NPT

**Outlet:** ½" NPT

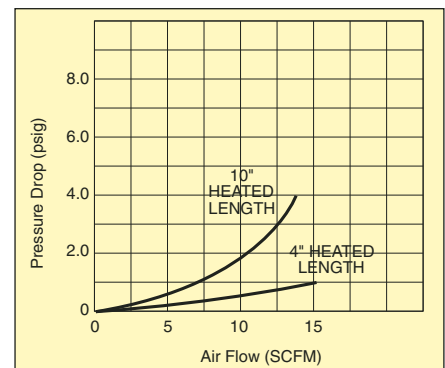
AHPF-061, \$250, shown smaller than actual size.



For air/gas flow up to 15 CFM



Model Number	Price
AHPF-NPT12	\$88



CFM	Max. Watts/Linear Inch of Heated Length
1	75
2	100
4	150
6	200
8	200
10	250
15	275

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

Model Number	Volts	Watts	Heated Length mm (in)	Watts/Inch*	Max CFM	Length mm (in)	Price	Weight kg (lb)
<b>120 Vac Models</b>								
AHPF-061	120	400	102 (4)	91	15	152 (6)	\$250	0.45 (1.0)
AHPF-081	120	600	152 (6)	94	15	203 (8)	288	0.54 (1.18)
AHPF-101	120	1000	203 (8)	120	15	254 (10)	303	0.62 (1.37)
AHPF-121	120	1200	254 (10)	115	15	305 (12)	324	0.70 (1.55)
<b>120/240 Volt Models**</b>								
AHPF-062	120 240	100 400	102 (4) 102 (4)	23 91	15 15	152 (6)	\$250	0.45 (1.0)
AHPF-082	120 240	150 600	152 (6) 152 (6)	23 94	15 15	203 (8)	288	0.54 (1.18)
AHPF-102	120 240	250 1000	203 (8) 203 (8)	30 120	15 15	254 (10)	303	0.62 (1.37)
AHPF-122	120 240	300 1200	254 (10) 254 (10)	29 115	15 15	305 (12)	324	0.70 (1.55)

\* Indicates watts per inch of heated length. Use the table above to determine minimum required flow rates. \*\* These air heaters can be operated on either 120 or 240V. Specifications are shown for either 120 or 240V operation.

**Ordering Example:** AHPF-101, 120V, 1000 W low flow air process and liquid circulation heater, \$303.



#### UNITED STATES

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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