



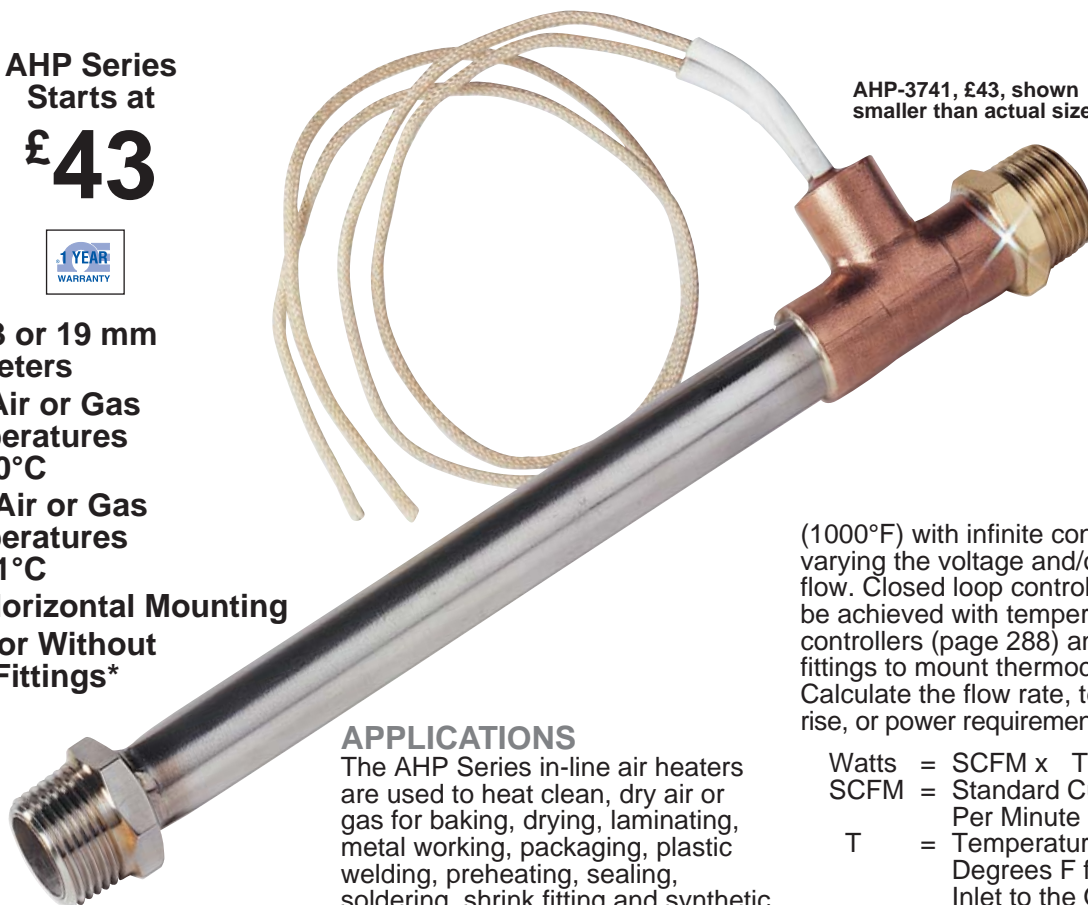
“T” TYPE AIR PROCESS HEATERS

For In-Line Air and Gas Heating

AHP Series
Starts at
£43



- ✓ 10, 13 or 19 mm Diameters
- ✓ Exit Air or Gas Temperatures to 540°C
- ✓ Inlet Air or Gas Temperatures to 121°C
- ✓ For Horizontal Mounting
- ✓ With or Without NPT Fittings*



AHP-3741, £43, shown smaller than actual size.

APPLICATIONS

The AHP Series in-line air heaters are used to heat clean, dry air or gas for baking, drying, laminating, metal working, packaging, plastic welding, preheating, sealing, soldering, shrink fitting and synthetic fabric sewing.

AHP series air process heaters provide hot air and gas up to 540°C

(1000°F) with infinite control by varying the voltage and/or the air flow. Closed loop control can also be achieved with temperature controllers (page 288) and “T” fittings to mount thermocouples. Calculate the flow rate, temperature rise, or power requirement as follows:

$$\begin{aligned}\text{Watts} &= \text{SCFM} \times T / 3 \\ \text{SCFM} &= \text{Standard Cubic Feet Per Minute} \\ T &= \text{Temperature Rise in Degrees F from the Inlet to the Outlet}\end{aligned}$$

Maximum flow rates are given in the table below. For minimum flow rates, see table on next page.

MOST POPULAR MODELS HIGHLIGHTED!

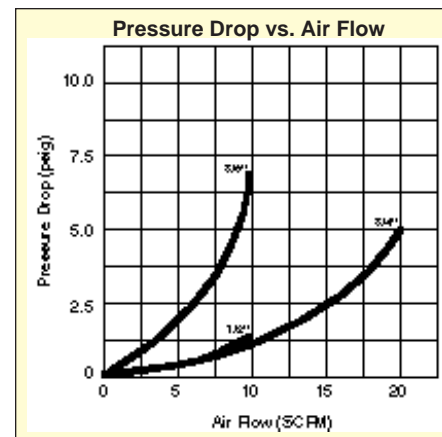
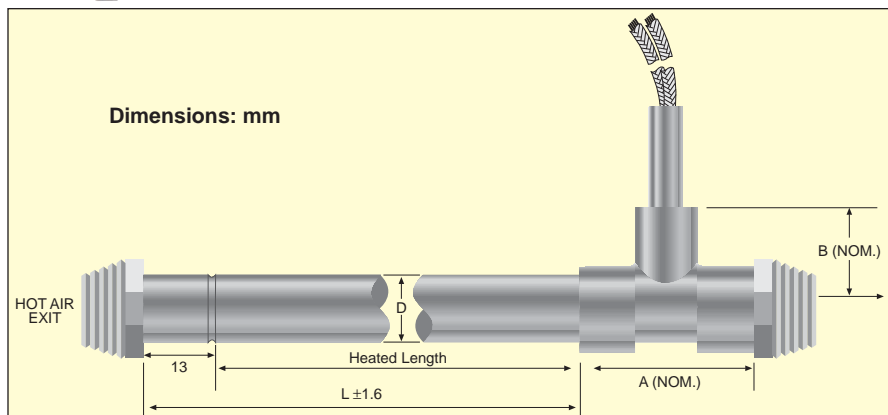
To Order (Specify Model Number)									
Model Number	Volts	Watts	Heated Length mm	Watts/Inch†	Maximum CFM	Diameter mm	NPT Fitting	Price	Weight g
120 Vac Models									
AHP-3741	120	200	89	57	8	10	¼	£43	82
AHP-5051	120	400	114	88	10	13	⅜	52	113
AHP-7561	120	750	140	136	20	19	¾	68	308
120/240 Vac Models**									
AHP-3742	120	50	89	14	8	10	¼	43	82
	240	200	89	57	8	10	¼		
AHP-5052	120	100	11	22	10	13	⅜	52	113
	240	400	11	80	10	13	⅜		
AHP-7562	120	190	14	34	20	19	¾	68	308
	240	750	14	136	20	19	¾		

* Note: To order heaters without NPT fittings add suffix “-NF” to model no. price for heaters without fittings is £31 for AHP-374 Series, £37.50 for AHP-505 Series, and £47 for AHP-756 Series.

** These air heaters can be operated on either 120 or 240 Volts. Specifications are shown for operation on both 120 and 240 Volts.

† Indicates watts per inch of heated length. Use the table above to determine minimum required flow rates. The watts per inch of heated length can be changed by reducing the operating voltage or by ordering a custom made heater.

Ordering Example: AHP-3741/120, 200 W, 120 Vac “T” Type in-line air/gas heater, £43.



Dimensions: mm

Series	Diameter	Heated Length	L	A	B
AHP-374	9.5	88.9	101.6	7.9	33.3
AHP-505	12.7	114.3	127.0	34.9	19
AHP-756	19.1	139.7	152.4	61.9	41.3

SPECIFICATIONS

Pressure Rating: 5.5 barg

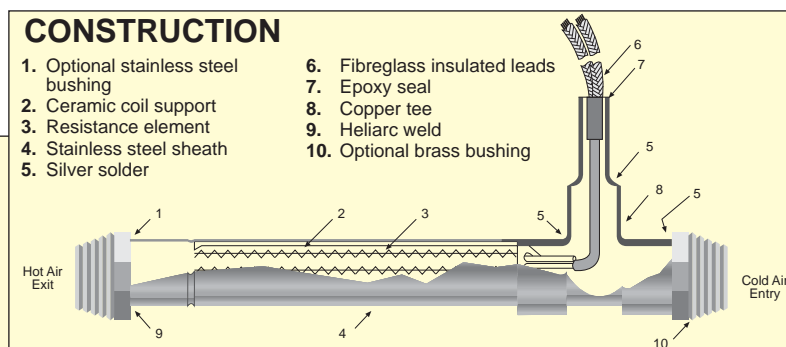
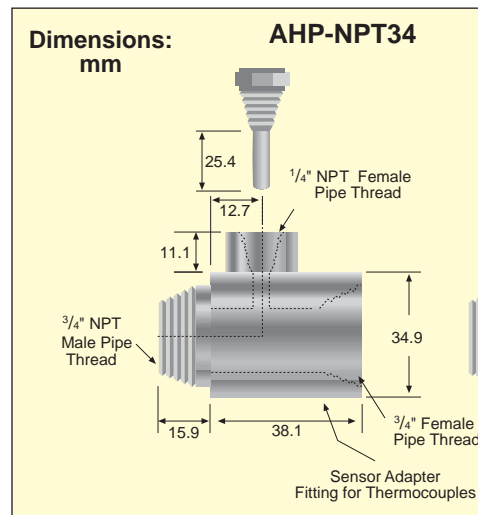
Wattage Tolerance: +5, -10% or better at the voltage specified

Leads: 0.3 m L fibreglass insulated leads

Maximum Watts Per Linear Inch of Heated Length

Minimum CFM Required	3/8" Dia.	1/2" Dia.	3/4" Dia.
1	60	80	120
2	60	80	120
4	100	100	120
6	150	150	150
8	200	200	200
10	-	250	250
15	-	-	375
20	-	-	500

ELECTRIC HEATERS



Thermocouple T-Fitting

The AHP-NPT34 fitting can be used with subminiature thermocouple probes (see page 28) and with stainless steel compression fittings (Model SSLK-18-14, see page 45) to monitor temperature at the outlet of the AHP-756 Series heaters.

Model Number	Price
AHP-NPT34	£61

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• Flow and Level

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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