MAXIMUM FLOW AIR HEATERS
For Low Pressure, High Flow Air Heating

AHF Series

- 4" OD Mounting Flange
- Air Flows Up To 200 CFM*
- Exit Air Temperatures up to 315°C (600°F)
- Post Terminals Junction Box

APPLICATIONS
The AHF series maximum flow air heaters are used with blowers or recirculating air in baking, drying, and preheating applications.

This air heater is designed with a 60 mm (2¾") OD aluminum tube and a cross frame heating element for minimum resistance to air flow. The nickel-chrome heating element is insulated by ceramic beads on a stainless steel support frame which is firmly secured to the inside of the tube. Post terminals enclosed in a junction box simplify the wiring. A 102 mm (4") round flange with pre-drilled holes at the inlet side are used for mounting the heater. It has a practical operating range of up to 200 CFM with temperatures up to 315°C (600°F).

Calculate the flow rate, temperature rise, or power requirement as follows:

\[
\text{Watts} = \frac{\text{SCFM} \times \Delta T}{3}
\]

\[
\text{SCFM} = \text{Standard Cubic Feet Per Minute}
\]

\[
\Delta T = \text{Temperature Rise in Degrees F from the Inlet to the Outlet}
\]

Minimum flow rates are given in the table to right.

SPECIFICATIONS
Maximum Amperage: 15
Cross Sectional Flow Area: 3.5 square inches
Threaded Terminals: 6-32

To Order

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Volts</th>
<th>Watts</th>
<th>Heated Length mm (inch)</th>
<th>Watts/ Inch**</th>
<th>Maximum CFM</th>
<th>Length mm (inch)</th>
<th>Weight kg (lb)</th>
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</thead>
</table>
| 120 Vac Models
| AHF-06120   | 120   | 600   | 102 (4)                 | 150           | 200         | 152 (6)         | 0.23 (0.5)     |
| AHF-10120   | 120   | 1000  | 203 (8)                 | 125           | 200         | 254 (10)        | 0.57 (1.25)    |
| 120/240 Vac Models*
| AHF-12240   | 120   | 375   | 254 (10)                | 38            | 200         | 305 (12)        | 0.68 (1.5)     |
| AHF-14240   | 120   | 500   | 305 (12)                | 42            | 200         | 356 (14)        | 0.79 (1.75)    |

* These air heaters can be operated on either 120 or 240 Volts. Specifications are given 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. Stainless steel construction also available. Consult Engineering.

Ordering Example: AHF-12240, air heater, 240 Vac, 1500 W.