



# Air Process Heaters

Tee Type —  $\frac{3}{8}$ " to  $1\frac{1}{4}$ " diameter

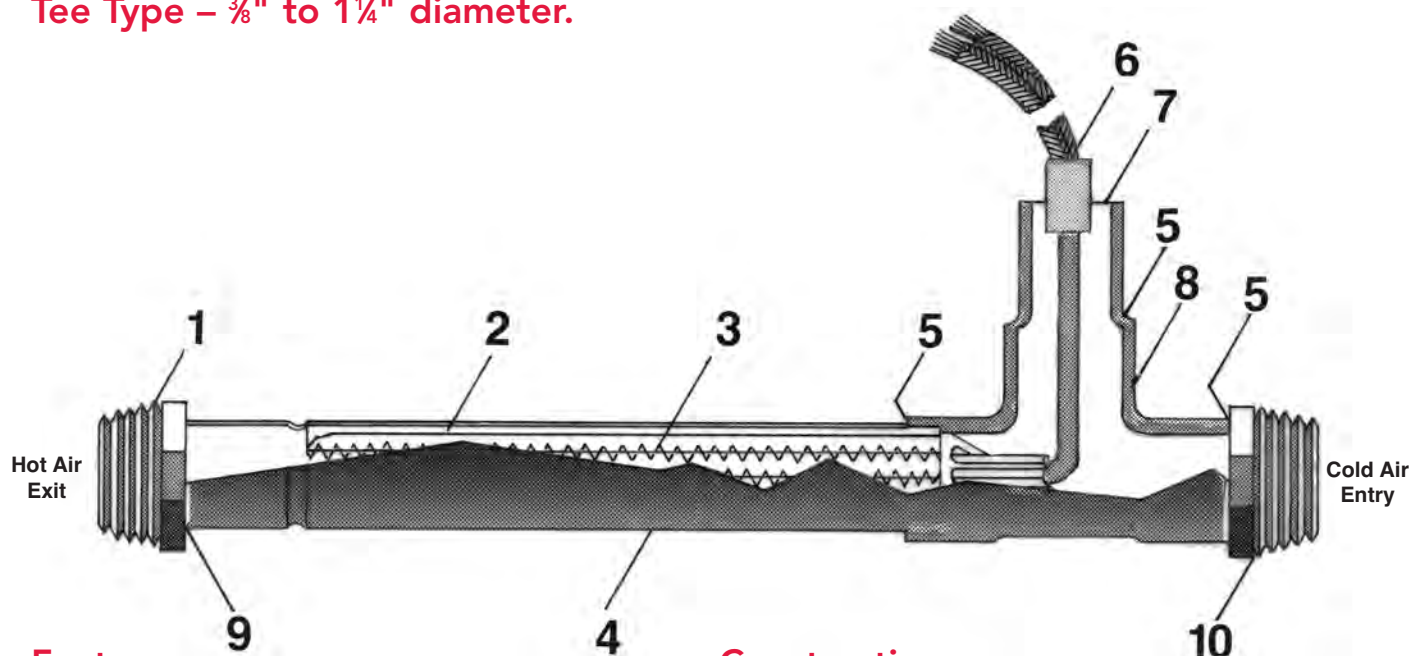
## Air Heater Selection

- Determine the volume of air or gas(SCFM) you will be heating.
- Determine temperature rise in degrees Fahrenheit( $\Delta T^{\circ}F$ ).
- Calculate wattage required as follows:

$$\text{Watts} = \frac{\text{SCFM} \times \Delta T^{\circ}F}{3}$$

- Take into consideration the physical size requirements of your application and determine from the specifications chart for each size, the air heater best suited for your application. High watt densities shown in the specifications charts are subject to factory approval due to resistance wire limitations.
- For temperature control, see page 54 and 131-134.

Tee Type —  $\frac{3}{8}$ " to  $1\frac{1}{4}$ " diameter.



## Features

- Exit air temperatures to 1000°F (540°C).
- Standard pressure rating is 80 psig at room temperature.
- May be used with recirculating air up to 250°F (121°C).
- Designed for horizontal use.
- For use with clean, dry air.
- Made in U.S.A.

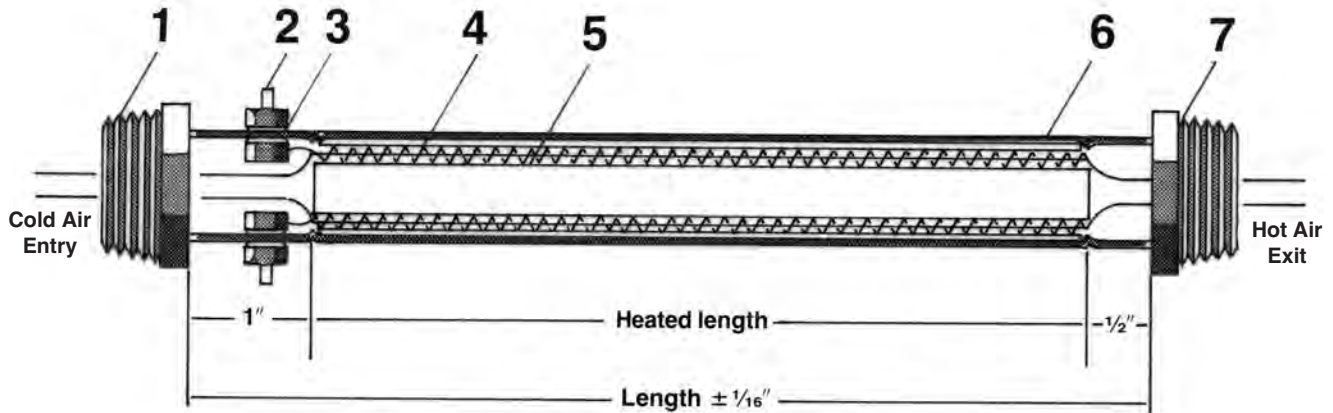
## Construction

- 1 Optional stainless steel bushing.
- 2 Ceramic coil support.
- 3 Resistance element.
- 4 Stainless steel sheath.
- 5 Silver solder.
- 6 Fiberglass insulated leads.
- 7 Epoxy seal.
- 8 Copper tee.
- 9 Heliarc weld.
- 10 Optional brass bushing.



# Air Process Heaters

**Alternate Style –  $\frac{3}{4}$ " to  $1\frac{1}{4}$ " diameter.**



## Features

- Low pressure applications.
- Post type terminals.
- Specify 'SF3' for alternate style.

## Construction

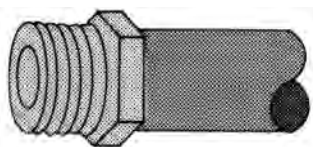
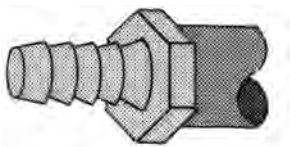
- |                                  |                                    |
|----------------------------------|------------------------------------|
| <b>1</b> Optional brass bushing. | <b>5</b> Ceramic coil support.     |
| <b>2</b> Post terminals.         | <b>6</b> Stainless steel sheath.   |
| <b>3</b> Mica insulation.        | <b>7</b> Optional st. st. bushing. |
| <b>4</b> Resistance element.     |                                    |

## Optional Fittings

HF: Hose adapter (entry only).

MF: Male fittings.

FF: Female fittings.



## How To Order

After determining the wattage required for application, select heater based upon physical space available, maximum SCFM, temperature, and pressure as shown on the following pages.

Tee Type Air Heaters are supplied with 6" (SF2) leads, all other models with Post (SF3) terminals. Longer leads are available upon request. Specify length required if other than standard.

Review stock list for in-stock items.

**Specify:** catalog number, wattage, voltage, and special features if required. Be sure to specify optional fitting number as suffix to base catalog number.

**Example:** AH50-5MF/300W120V/SF2-36.

Special Features Available.

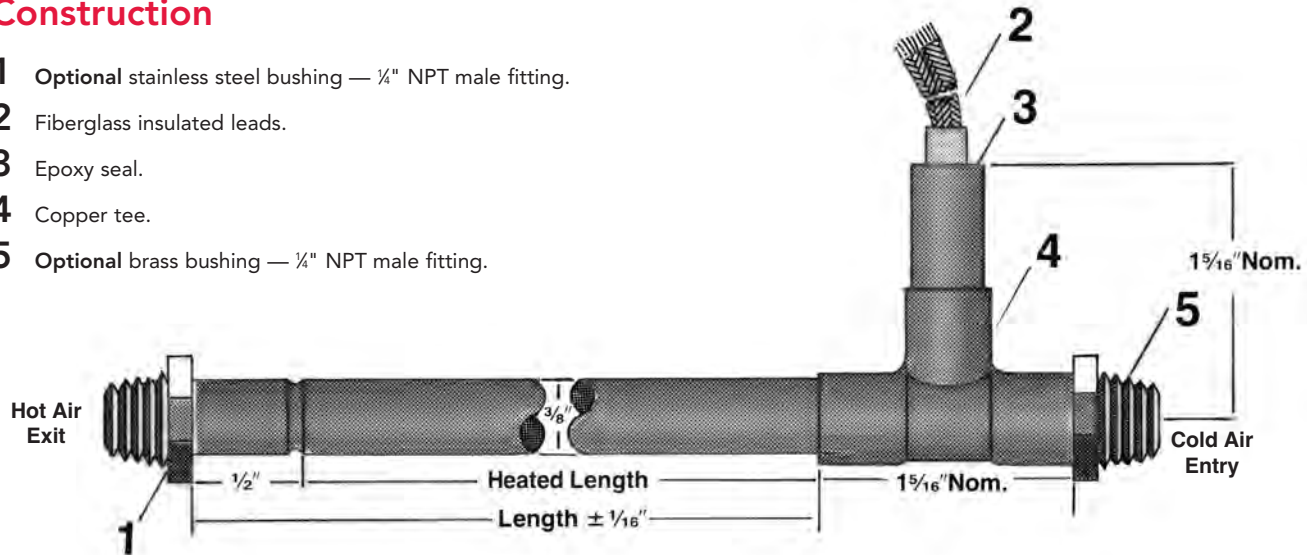


# Air Process Heaters

**$\frac{3}{8}$ " Diameter – Horizontal use only**

## Construction

- 1 Optional stainless steel bushing —  $\frac{1}{4}$ " NPT male fitting.
- 2 Fiberglass insulated leads.
- 3 Epoxy seal.
- 4 Copper tee.
- 5 Optional brass bushing —  $\frac{1}{4}$ " NPT male fitting.



▼ Manufactured Items ▼

## Specifications

Maximum Amperage: 6

Cross Sectional Flow Area: .03 sq. in.

Maximum CFM: 8

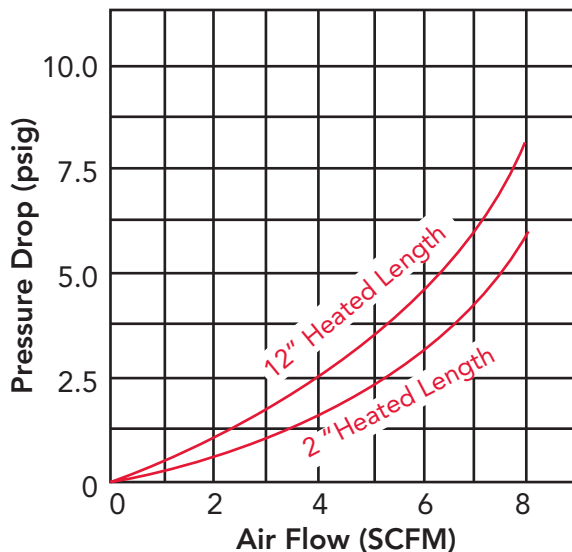
CFM	Max. Watts/linear in of heated length
1	60
2	60
4	100
6	150
8	200

Pressure rating: 80 psig.

## Sizes

Diameter:  $\frac{3}{8}$ "

Length	Heated Length	Cat. No. w/o fittings	Cat. No. w/Male NPT fittings
2"	1 1/2"	AH37-2	AH37-2MF
3"	2 1/2"	AH37-3	AH37-3MF
4"	3 1/2"	AH37-4	AH37-4MF
5"	4 1/2"	AH37-5	AH37-5MF
6"	5 1/2"	AH37-6	AH37-6MF
7"	6 1/2"	AH37-7	AH37-7MF
8"	7 1/2"	AH37-8	AH37-8MF
9"	8 1/2"	AH37-9	AH37-9MF
10"	9 1/2"	AH37-10	AH37-10MF



## Special Features Available

**MF:**  $\frac{1}{4}$ " NPT male fittings (add MF to catalog number).

**HF:** Hose adapter on entry and only (add HF to catalog number and specify I.D. of hose).

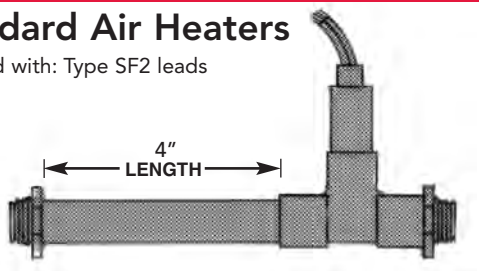


# Air Process Heaters

▼ IN STOCK ITEMS ▼

## Standard Air Heaters

Supplied with: Type SF2 leads



Length	Cat. No.	Dia.	Wattage	Voltage	Watts/ Linear Inch	Weight	Lead Length	Fittings
4"	AH37-4	3/8"	50	120	14	.12	12"	
4"	AH37-4MF	3/8"	50	120	14	.18	12"	1/4" NPT
4"	AH37-4	3/8"	200	120	57	.12	12"	
4"	AH37-4MF	3/8"	200	120	57	.18	12"	1/4" NPT
4"	AH37-4	3/8"	200	240	57	.12	12"	
4"	AH37-4MF	3/8"	200	240	57	.18	12"	1/4" NPT

AIR

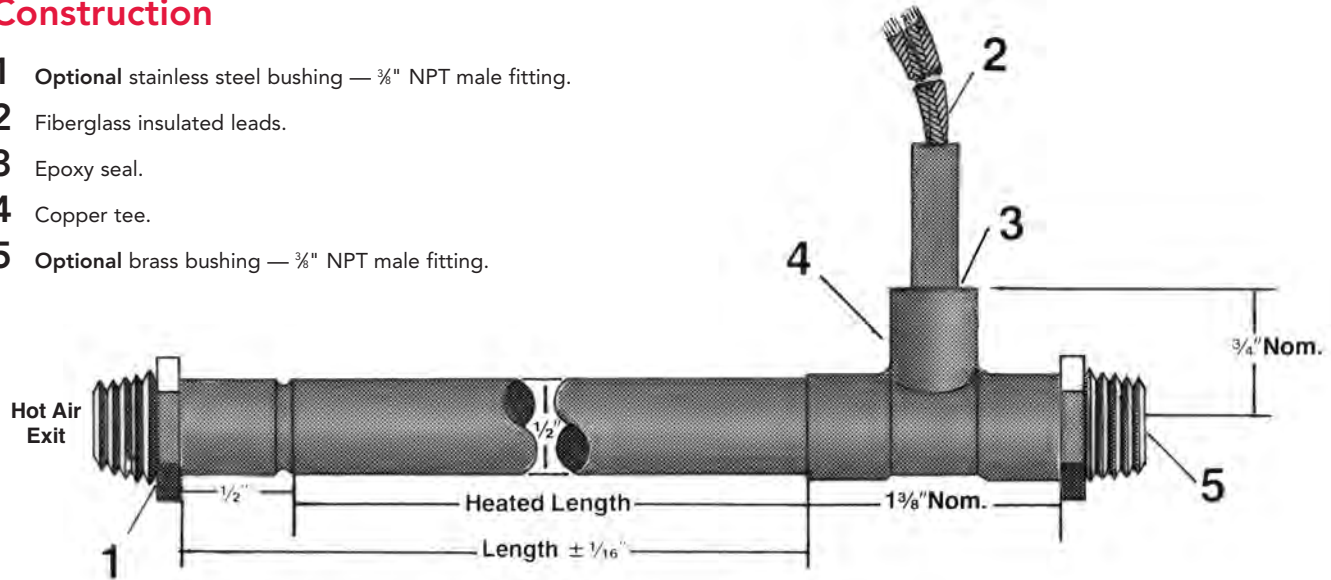


# Air Process Heaters

**1/2" Diameter – Horizontal use only**

## Construction

- 1 Optional stainless steel bushing — 3/8" NPT male fitting.
- 2 Fiberglass insulated leads.
- 3 Epoxy seal.
- 4 Copper tee.
- 5 Optional brass bushing — 3/8" NPT male fitting.



▼ Manufactured Items ▼

## Specifications

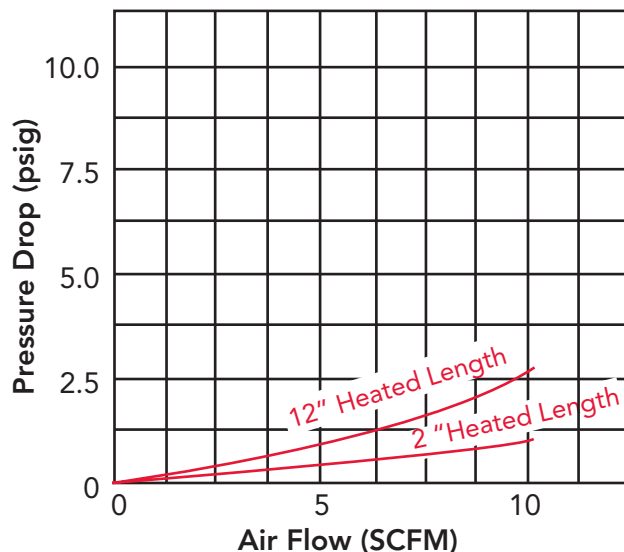
Maximum Amperage: 10

Cross Sectional Flow Area: .036 sq. in.

Maximum CFM: 10

CFM	Max. Watts/linear in of heated length
1	80
2	80
4	100
6	150
8	200
10	250

Pressure rating: 80 psig.



## Sizes

Diameter: 1/2"

Length	Heated Length	Cat. No. w/o fittings	Cat. No. w/Male NPT fittings
2"	1 1/2"	AH50-2	AH50-2MF
3"	2 1/2"	AH50-3	AH50-3MF
4"	3 1/2"	AH50-4	AH50-4MF
5"	4 1/2"	AH50-5	AH50-5MF
6"	5 1/2"	AH50-6	AH50-6MF
7"	6 1/2"	AH50-7	AH50-7MF
8"	7 1/2"	AH50-8	AH50-8MF
9"	8 1/2"	AH50-9	AH50-9MF
10"	9 1/2"	AH50-10	AH50-10MF

## Special Features Available

MF: 3/8" NPT male fittings (add MF to catalog number).

FF: 3/8" NPT female fittings (add FF to catalog number).

HF: Hose adapter on entry end only (add HF to catalog number and specify I.D. of hose).

AIR

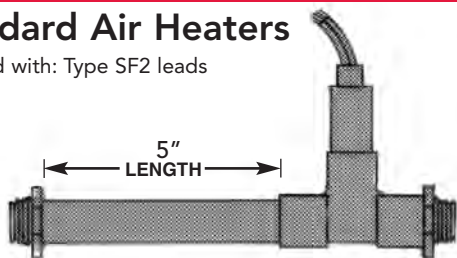


# Air Process Heaters

▼ IN STOCK ITEMS ▼

## Standard Air Heaters

Supplied with: Type SF2 leads



Length	Cat. No.	Dia.	Wattage	Voltage	Watts/	Weight	Lead Length	Fittings
					Linear Inch			
5"	AH50-5	½"	100	120	22	.18	12"	
5"	AH50-5MF	½"	100	120	22	.25	12"	¾" NPT
5"	AH50-5	½"	400	120	88	.18	12"	
5"	AH50-5MF	½"	400	120	88	.25	12"	¾" NPT
5"	AH50-5	½"	400	240	88	.18	12"	
5"	AH50-5MF	½"	400	240	88	.25	12"	¾" NPT

AIR



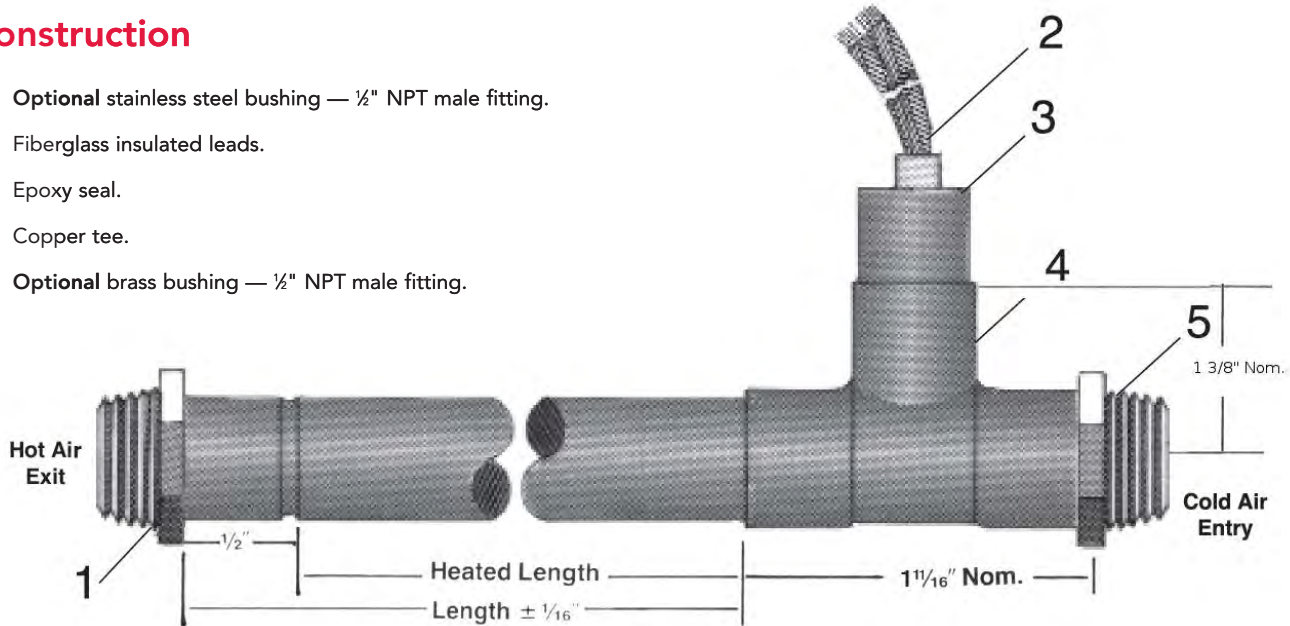


# Air Process Heaters

**$\frac{5}{8}$ " Diameter – Horizontal use only**

## Construction

- 1 Optional stainless steel bushing —  $\frac{1}{2}$ " NPT male fitting.
- 2 Fiberglass insulated leads.
- 3 Epoxy seal.
- 4 Copper tee.
- 5 Optional brass bushing —  $\frac{1}{2}$ " NPT male fitting.



▼ Manufactured Items ▼

## Specifications

Maximum Amperage: 15

Cross Sectional Flow Area: .072 sq. in.

Maximum CFM: 15

CFM	Max. Watts/linear in of heated length
1	100
2	100
4	100
6	150
8	200
10	250
15	375

Pressure rating: 80 psig.

## Sizes

Diameter:  $\frac{5}{8}$ "

Length	Heated Length	Cat. No. w/o fittings	Cat. No. w/Male NPT fittings
3"	2 1/2"	AH62-3	AH62-3MF
4"	3 1/2"	AH62-4	AH62-4MF
5"	4 1/2"	AH62-5	AH62-5MF
6"	5 1/2"	AH62-6	AH62-6MF
7"	6 1/2"	AH62-7	AH62-7MF
8"	7 1/2"	AH62-8	AH62-8MF
9"	8 1/2"	AH62-9	AH62-9MF
10"	9 1/2"	AH62-10	AH62-10MF
12"	11 1/2"	AH62-12	AH62-12MF

## Special Features Available

**MF:**  $\frac{1}{2}$ " NPT male fittings (add MF to catalog number).

**FF:**  $\frac{1}{4}$ " NPT female fittings (add FF to catalog number).

**HF:** Hose adapter on entry and only (add HF to catalog number and specify I.D. of hose).

**SF-28:** Three Phase

**SF-29:** Multiple Heat circuits — Specify wattages

