Tubular Heaters

FINBAR™ Single-Ended Heaters

Composed of aluminized steel fins press fitted to a one-inch single-ended FIREBAR element. The FINBAR™ is designed to improve heat transfer to the air and permits putting more power in tighter spaces—like forced air ducts, dryers, ovens and load bank resistors.

Heat transfer, lower sheath temperature and element life are all maximized by its finned construction. Installation is simplified by terminations exiting at one end and mounting accommodations on both ends.

Performance Capabilities

- Watt densities up to 50 W/in² (7.7 W/cm²)
- 304 stainless steel sheath temperatures up to 1200°F (650°C)
- Voltages up to 480VAC
- Amperages up to 48 amperes per heater or 16 amperes per coil

Features and Benefits

Rugged aluminized steel fins

 Provides an increase in surface area to approximately 16 square inches for every linear inch of element length. Fins press fitted to the heating element improve heat transfer to the air

Single-ended termination

• Simplifies wiring and installation

Stainless steel mounting bracket, welded to the terminal end, supplied with a slotted end

Allows ease of installation

Lavacone seals

 Provides protection against humid storage conditions, moisture retardant to 221°F (105°C)

Typical Applications

- Forced air heating for dryers, ovens, ducts
- Still air heating for ovens, comfort heating
- Incubators
- Ink drying
- Load bank resistors

Image: Steel Firsting Steel

Construction Features

Watt Density: Up to 40 W/in² (6.2 W/cm²)

Fin Surface Area: 16 in²/linear in. (40.5 cm²/linear cm)

Fin Cross Section: 2 x 1 in. (50 x 25 mm)

Maximum Operating Temperature: Sheath material: 304 SS, 1200°F (650°C), Fin material; aluminized steel; 1100°F (600°C)

Heater Length: 11 to 120 in. (280 to 3050 mm)

No-Heat Length: 1 in. (25 mm) min., 12 in. (305 mm) max.

Voltages: Up to 240VAC

Phase: 1-phase parallel or 3-phase wye

Resistance Coils: 1 or 3

Terminations: Flexible lead wires, quick connect (spade), screw lug (plate) and threaded stud

Seal Material: Lavacone, rated to 221°F (105°C)

Single-End Configuration: Slotted Agency Recognition: Refer to FIREBAR UL®

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Air Heating

The Watt Density, Air Flow and Sheath Temperature graph shows the relationship between watt density, air flow velocity and sheath temperature, along with a recommended temperature to avoid deteriorating the fins. Be aware that **lower sheath temperature yields longer heater life**.

The graphic representation is based on a single-ended FINBAR, various air velocities (at 68°F/20°C inlet temperature) and different watt densities.

Air Flow 1600 1400 1 FPS 4 FPS Max. Heater Temperature 1200 ۴ Max. Heater Temperature 9 FPS to Avoid Scaling of Fins Sheath Temperature 1000 16 FPS 20 FPS 800 600 400 200 5 10 15 20 25 30 35 40 45 50 55 60 Watt Density – W/in²

Watt Density, Air Flow and Sheath Temperature (°F)

Dual Ended FINBAR

FINBAR elements are typically terminated at one end. Upon request, however, dual-ended FINBAR heaters can be ordered. To order, specify **dual-ended FINBAR** and lead length. To determine, from the graph, the operating temperature of the FINBAR's sheath, identify the air velocity curve that approximates your application in feet per second (meters per second). Then, look at the vertical line that most closely approximates the FINBAR's watt density. From the intersecting point, read over to the temperature column to determine the sheath's operating temperature.

Watt Density, Air Flow and Sheath Temperature (°C)



Application Hints

- Avoid deteriorating the fins by not exceeding the recommended maximum fin temperature of 1100°F (600°C).
- Ensure proper air flow to prevent premature heater failure.
- Locate the temperature sensor downstream from heater(s) for process temperature sensing.

The following mounting parameters are recommended:

- Air flow over element must be parallel with the flat side.
- Element center line to element center line spacing must be a minimum of 1¹/₂ in. (38 mm).



Proper air flow relative to the heater's sheath is parallel with the longer cross sectional axis.

WATLOW®

Tubular Heaters

FINBAR Single-Ended Heaters



Description A Dimension in. F Dimension in. B Dimension in. Watts Part Number Wt. Application: Forced Air in. (mm) in. (mm) 91/2 (241.0) 300 FSP91WMF 1.4 (0.7) 304 SS 113/4 (298.0) 8 (203.0) 11 (279.0) 375 FSP101WMF 1.5 (0.7) (3.1 W/cm ²) 133/4 (340.0) 10 (254.0) 13 (33.0) 450 FSP11WMF 1.5 (0.7) 15 (381.0) 111/4 (285.0) 141/4 (362.0) 500 FSP11WMF FSP1610WMF 1.5 (0.7) 175/6 (447.7) 137/6 (352.4) 167/8 (428.6) 650 FSP161WMF FSP1610WMF 1.6 (0.8) 203/4 (527.0) 177/4 (31.0) 20 (508.0) 800 FSP191WMF FSP210WMF 1.8 (0.9) 251/4 (641.0) 21 ¹ /2 (64.0) 24 ¹ /2
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30 1/8 (765.2) 263/8 (669.9) 293/8 (746.1) 2500 FSP2910WKF 2.1 (1.0)
33.78 (041.4) 29% (740.1) 32% (822.3) 2700 FSP3210WKF 2.2 (1.0)
35% (904.9) 31% (809.6) 34% (885.8) 3000 FSP3410WKF 2.3 (1.1)
$38^{7/8}$ (974.7) $34^{9/8}$ (879.4) $37^{7/8}$ (955.7) 3200 FSP3/10WKF 2.4 (1.1)
42.78 (1070.0) 36% (974.7) 41% (1050.9) 3000 FSP4110WKF 2.5 (1.2) 473/4 (1213.0) 4/4 (1117.0) 47 (1103.0) 4/000 FSP4110WKF 2.7 (1.2)

• M - Manufacturing lead times