



Mi-Plus® Standard Specifications and Tolerances

PERFORMANCE RATINGS

Maximum Temperature: 1400°F (760°C)

Nominal Watt Density:

Nozzle Bands — under 3" diameter:

30-100 W/in² (4.7-15.5 W/cm²)

Barrel bands — 3" and greater in diameter:

20-70 W/in² (3.1-10.9 W/cm²)

Maximum Watt Density: 150 W/in² (23 W/cm²) Dependent on heater size, operating temperature and termination.

ELECTRICAL RATINGS

Maximum Voltage: 480VAC per termination

Dual Voltage: Available depending on heater configuration

Maximum Amperage: lead wire termination: 12.5A

screw terminations: 8-32UNF—20A

10-32UNF—25A

Resistance Tolerance: +10%, -5%

Wattage Tolerance: +5%, -10%



Exposed electrical wiring on band heater installations is a violation of Electrical Safety Codes including O.S.H.A.

PHYSICAL SIZE CONSTRUCTION LIMITATIONS

Nominal Gap—Built-In Bracket:

less than 1-3/4" dia. 1/4"

1-3/4" to 2" dia. 5/16"

2" to 5" dia. 3/8"

5" to 18" dia. 1/2"

greater than 18" dia. . . . 3/4"

If a larger gap is required for probes or thermocouples, specify when ordering.

Maximum Inside Diameters:

One-Piece *14" (355.6 mm)

One-Piece Expandable .. *14" (355.6 mm)

Two-Piece 25" (635.0 mm)

Over 25" (635.0 mm) will require multiple segments. Consult TEMPCO.

* Tempco recommends two-piece construction for heaters 10" ID and greater

Standard Widths: 1" to 8" (25.4 mm to 203.2 mm)

Width Tolerance: ±3/32" (2.4 mm)

If non-standard widths or tighter tolerances are required, consult Tempco.

Diameter/Width Limitations

Width		One-Piece Construction		Expandable Construction		Two-Piece Construction	
in	mm	in	mm	in	mm	in	mm
1	25.4	1 to 10	25.4 to 254.0	N/A	N/A	3 to 25	76.2 to 635.0
1½	38.1	1 to 14	25.4 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
2	50.8	1½ to 14	38.1 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
2½	63.5	1½ to 14	38.1 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
3	76.2	1½ to 14	38.1 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
3½	88.9	1¾ to 14	44.5 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
4	101.6	2 to 14	50.8 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
4½	114.3	2¼ to 14	57.2 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
5	127.0	2½ to 14	63.5 to 355.6	2½ to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
5½	139.7	2½ to 14	69.9 to 355.6	3 to 14	63.5 to 355.6	3 to 25	76.2 to 635.0
6	152.4	3 to 14	76.2 to 355.6	3 to 14	76.2 to 355.6	3 to 25	76.2 to 635.0
6½	165.1	3¼ to 14	82.6 to 355.6	3¼ to 14	82.6 to 355.6	3¼ to 25	82.6 to 635.0
7	177.8	3½ to 14	88.9 to 355.6	3½ to 14	88.9 to 355.6	3½ to 25	88.9 to 635.0
7½	190.5	3¾ to 14	95.3 to 355.6	3¾ to 14	95.3 to 355.6	3¾ to 25	95.3 to 635.0
8	203.2	4 to 14	101.6 to 355.6	4 to 14	101.6 to 355.6	4 to 25	101.6 to 635.0

Additional Limitations

- For heaters less than 4" in diameter, the maximum width is twice the diameter.
- Heaters with standard brackets are available from 1" to 8" wide, while heaters with low profile brackets are available from 1" to 6" wide.
- 1" diameter heaters are only available in 1" and 1-1/2" widths.
- For heaters from 10" diameter up to 25" diameter, Tempco recommends using 2-piece construction for superior clamping. Over 25" diameter, 3 or 4 segments are recommended.
- Combinations of some minimum and maximum variations may not be available. Consult Tempco with your special requirements.
- Post terminals are only available on heaters greater than 2-1/2" in diameter and 1-1/2" in width.