

The Maxiband® is a high quality, durable band heater providing more efficient heating and cooling as well as a longer life compared to other types of band heaters. Due to the rugged construction characteristics of this type of band heater, Maxiband has proven to be extremely valuable and has become the most sought after band heater of its type for plastic injection molding machines, extruders, and blow molding equipment. The initial cost is easily absorbed by the sharp reduction in downtime and labor costs involved in replacing burned-out, less efficient band heaters.

### Design Features

- Quick Installation
- Rugged, Durable Construction
- Contamination Proof
- Various Lead Terminations
- Exceptionally Long Life
- Excellent Heat Transfer
- Excellent Temperature Uniformity
- Up to 11" ID—1/4" gap – As the diameter increases, the gap will also increase accordingly in order to accommodate the thermal expansion of the aluminum track.

### Performance Ratings

- Maximum Temperature: 650°F (350°C)
- Nominal Watt Density: 35 W/in<sup>2</sup> (5.4 W/cm<sup>2</sup>)

### Electrical Ratings

- Maximum Voltage: 277VAC per half
- Maximum Wattage: Depends on diameter and number of elements used
- Maximum Amperage: 30 amps per circuit
- Resistance Tolerance: +10%, -5%
- Wattage Tolerance: +5%, -10%

### Physical Size Construction Limitations

#### Available Heater Widths

Maxiband Type	3/4"	1 1/2"	2 1/2"	3"	4"
Heating Only	•	•	•	•	•
Heat and Cool	N/A	N/A	•	•	•
Cooling Only	•	•	•	•	•

#### Cooling Tube Specifications

Heater Width	3/4"	1 1/2"	2 1/2"	3"	4"
Diameter	3/8"	3/8"	3/8"	3/8"	3/8"
Extension	4"	4"	4"	4"	4"
Material	Stainless Steel				

#### Holes

Heater Width	3/4"	1 1/2"	2 1/2"	3"	4"
Maximum Hole Size	N/A	7/16"	7/16"	7/16"	7/16"
<i>Hole is located in center of heater width. For special hole arrangements, supply Thermal Solutions with a detailed drawing of your requirements.</i>					

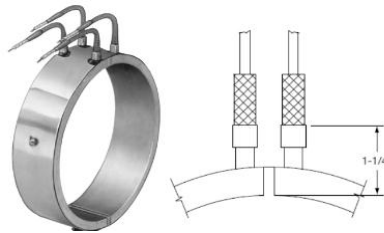


### Terminations



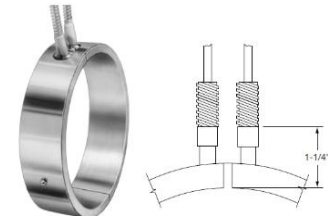
#### Standard Terminal Lugs

Terminal lugs with 10-32 binding head screws. (Standard, unless otherwise specified)



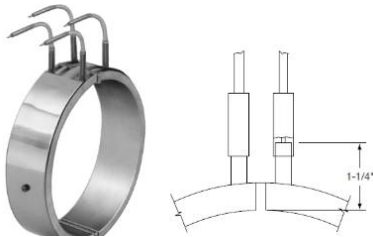
#### Wire Brad Leads

Stainless steel wire braid provides strength and protection to the wire's insulation and offers sharp bending not possible with armor cable.



#### Armor Cable Leads

Armor cable provides excellent protection against abrasion and contaminants. Type R1A: Galvanized / Type R1B: S/S



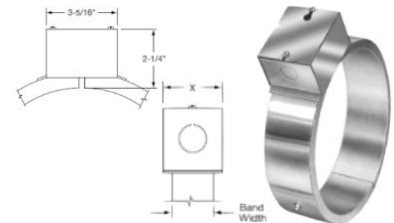
#### Contamination Seal

Teflon® sleeving provides a good moisture and contamination seal. The max temp allowed at the seal sleeve is 500°F (260°C).



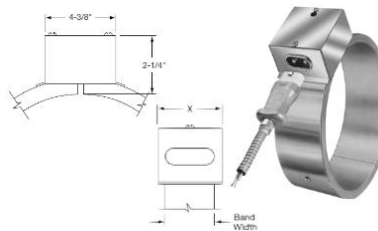
#### Explosion/Moisture Resistant Box

Maxiband heaters can be made with an explosion/moisture resistant box brazed onto the heater.



#### General Purpose Terminal Box

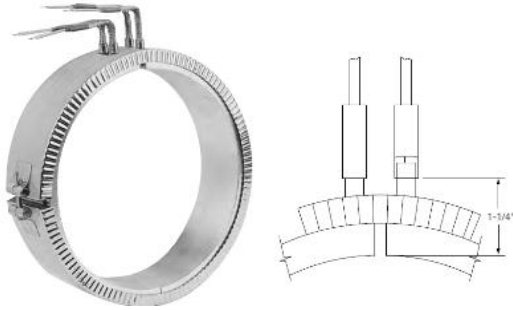
Terminal Boxes provide a simple and economical way to eliminate all live exposed terminals and wiring that can be a potential hazard.



#### Quick Disconnect Plug

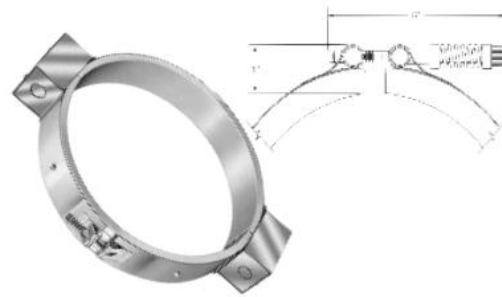
Plugs are highly recommended to provide the simplest and safest way to apply power to band heater installations.

## Construction Variations



### Insulated Shroud

Insulated Shroud provides energy savings. The shrouds are a separate part and fit over the heater.



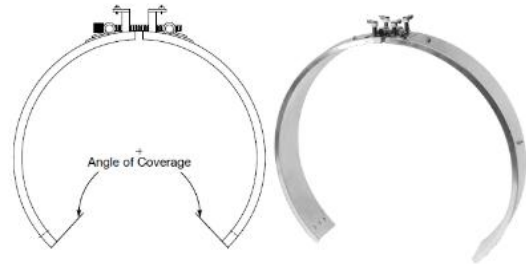
### Spring Loaded Clamping

On heaters over 12" in diameter, the aluminum tracks are in segments for better configuration.



### Reverse Construction

Heat cylindrical surfaces from the inside out. An internal bracket exerts pressure to both heater halves to ensure good contact.



### Partial Coverage

Partial coverage band heaters are normally required when holes and cutouts will not allow the heater to clear the machine obstructions.

## Optional Features

- **Dual Voltage**

Maxiband heaters can be designed using series/parallel circuits for dual voltage applications. Whether the heater is run on the higher or lower voltage, the wattage will be the same. Dual Voltage is available on all heater widths except 3/4".

- **Ground Terminal or Lead**

For those applications requiring a separate ground terminal or lead attached to the heater, a ground terminal or lead is available on any construction or termination variation.

- **Electrical Plugs**

Industry standard NEMA twist lock electrical connectors are available. The plugs can be attached to fiberglass leads, armor cable or wire braid. Electrical Plugs can be added to any clamping/construction or termination variation.

- **Terminal Lugs**

Various types of crimp terminals can be attached to the heater leads to make wiring into applications quick and easy. High temp [1200°F (649°C)] ring terminals and nylon or PVC insulated terminals are available. Spade, ring, and right-angle or straight quick disconnect type terminals can be attached to the leads.

- **Extra Cooling Tube Length**

The standard cooling tube length is 4". Longer lengths can be provided; please specify when ordering.

### How to Order Specifications

**RATING:** VOLTS PER HALF      WATTS  
**SIZE:** IN. WIDTH      IN. DIA.  
**CONSTRUCTION:**  INSULATED SHROUD     SPRING LOADED CLAMP     REVERSE CONSTRUCTION     PARTIAL COVER

**TERMINATION:**  STD POST TERMINALS  
 BRAIDED WIRE LEADS      Length:      IN  
 ARMOR CABLE LEADS      Length:      IN     Galvanized     Stainless Steel  
 CONTAMINATION SEAL  
 EXPLOSION/MOISTURE RESISTANT BOX  
 GENERAL PURPOSE TERMINAL BOX     Standard     Galvanized     Stainless Steel     Wire Braid  
 QUICK DISCONNECT HIGH TEMP PLUG     Box and Cup Only     with Straight Plug  
 Straight Plug with Galvanized Cable  
 Straight Plug with Stainless Steel Cable  
 Straight Plug with Wire Braid

**OPTIONS:**  DUAL VOLTAGE  
 GROUND TERMINAL  
 GROUND LEAD  
 ELECTRICAL PLUG  
 TERMINAL LUGS       High Temp Rings     Nylon       PVC Insulated  
 Spades       Ring       Right Angle       Straight  
 EXTRA COOLING TUBE     STD 4 in. length     Other Length:      Inches  
 SQUARE HEATER      Dimensions:      x      x      x  
 RECTANGULAR HEATER    Dimensions:      x      x      x

- When ordering square or rectangular heaters, a detailed drawing or sample part must accompany request for quote.