

Mi-Plus® Construction Characteristics

The *Mi-Plus* is the solution for applications that require high watt densities (W/in²) and/or high operating temperatures.

Mi-Plus band heaters are capable of temperatures up to 1400°F (760°C) and watt densities up to 150W/in² (23.25W/cm²). The recommended maximum watt density for a specific application will depend on the heater size and its operating temperature.

Specially formulated mineral insulated tape that provides excellent thermal conductivity and dielectric strength is used to insulate the nickel chrome resistance wire from the stainless steel sheath. The heater assembly is formed under pressure to a precise diameter with a thin, low-mass cross section, assuring fast heat-up rates and reduced cycle times.



UNBREAKABLE Power Screw Terminals

Only Mi-Plus offers this unique screw terminal design...

The stainless steel power screw terminals are resistant to over-torquing.

For complete selection of screw terminal arrangements, see pages 1-14 and 1-15.



SUPERIOR Clamping Mechanism

The clamping brackets are formed from the outer sheath of the heater, providing a unique, one-piece, built-in construction strap. The clamping power is generated through barrel nuts and socket head screws, which, as

an integral part of the built-in strap, provide superior clamping force for maximum performance and optimal heater life.

For details, see pages 1-12 and 1-13.



INNOVATIVE Lead Terminations

Smaller size *Mi-Plus* band heaters are powered-up by means of lead wire terminations. To insure a resilient connection that will withstand abrasion, mechanical abuse and keep contaminants out of the transition area, a specially designed stainless

steel transition cap with a built-in strain relief was developed. The cap is welded to the sheath and the cavity is filled with insulating cement, sealing the band heater from contaminants. *For details, see pages 1-16 through 1-19.*

UNIQUE Igloo™ Ceramic Covers

To eliminate exposed wiring/screw terminals on band heater installations, single and double port ceramic caps were designed. These unique and exclusive Igloo ceramic terminal

insulators fit over the entire terminal and lug, leaving no exposed wiring. *For additional details on Igloo insulators, see page 1-15.*

