

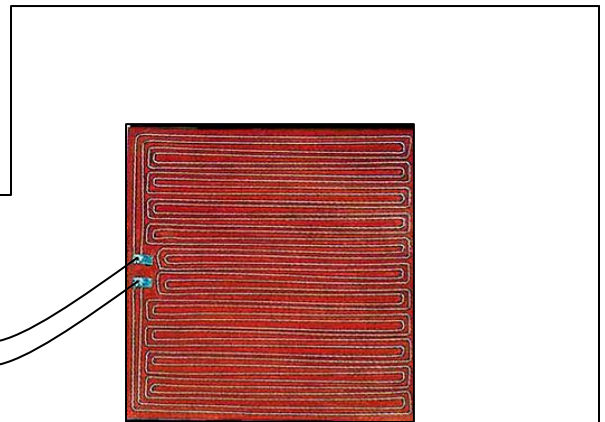
Etched Foil Elements



The manufacturing process begins with a metallic foil that is laminated to a silicone rubber sheet. The sheet is then printed with the desired circuit pattern then chemically etched, leaving the printed pattern. Another layer of silicone rubber is then vulcanized over the top of the circuit.

Features of Etched Foil Elements:

- Higher watt density heaters
- Heaters that require multi-zoned wattages
- Heaters with complex designs
- Applications include: food service, medical, battery heaters, de-icing equipment.



Wire Wound Elements

One to five strands of resistance wire is wound together then formed in the desired circuit pattern on top of a layer of silicone rubber. Another layer of silicone rubber is placed over the element to seal the heater.

Features of Wire Wound Elements:

- Flexing applications
- High resistance applications
- Applications include: food service, medical, battery heaters, de-icing equipment

Technical Specifications

	Etched Foil	Wire Wound
Size	Max 22" x 28"	Max 36" x 70"
Standard Thickness	.030"	.055" for removable heaters
Maximum Watt Density	60 watts per square inch	12 watts per square inch
Maximum Operating Temp	450° F	450° F
Minimum Operating Temperature	-70°F	-70°F
Maximum Voltage	600 volts	600 Volts
Wattage Tolerance	+5%/- 10% for UL and CSA Heaters	+5%/- 10% for UL and CSA Heaters
Standard Dimensional Tolerances	+/- .063" Tolerances	0-12" +/- .0625" 12-24" +/- .1875" Over 36" +/- .75"