




SOUTHWEST
HEATER & CONTROLS

Square Cartridge Heaters

 **MARATHON
HEATER**



RoHS
COMPLIANT 



SOUTHWEST
HEATER & CONTROLS

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SQUARE CARTRIDGE HEATERS

HIGH DENSITY SQUARE CARTRIDGE HEATERS

For those applications where a drilled hole is not practical, Marathon Heater offers square cartridge heaters. Unlike square cartridge heaters from other manufacturers, Marathon's square cartridge heaters are swaged, allowing them to be used in high temperature and high watt density applications.

Square heaters are ideal for milled slots in long platens where drilling a long hole would be too difficult. Square heaters are also much easier to remove from a slot after extended high temperature usage than removing a round heater from a drilled hole.

Typical Applications

- Bag Sealing
- Long platens
- Cutting jaws

Available Diameters

- .375" diameter
- .500" diameter
- .625" diameter

Lead Options

- Rt. Angle leads
- S/S braid
- S/S conduit
- Rt. Angle braid
- Rt. Angle conduit

Heater Options

- Thermocouple
- Flanges
- Tab stops
- Weld beads
- Moisture seals
- Distributive wattage

SPECIFICATIONS

	3/8	1/2	5/8
Max Cross Section	0.374	0.499	0.624
Min. Cross Section	0.369	0.494	0.619
Std. Lead Wire	22	22	18
Maximum Amp.	9	9	15
Max Lead Wire	22	18	18
Max amps with	9	15	15
Maximum Volts	300	300	300
Lead Wire Temp	550 °C	550 °C	550 °C

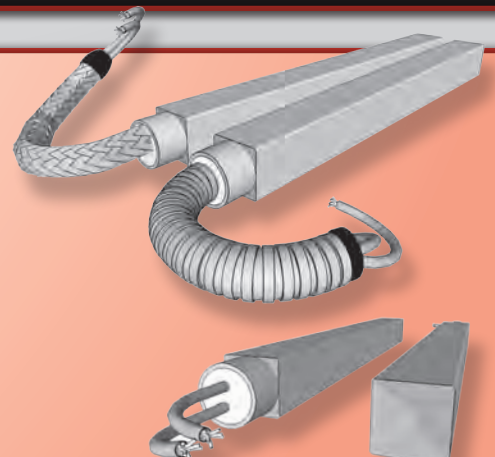
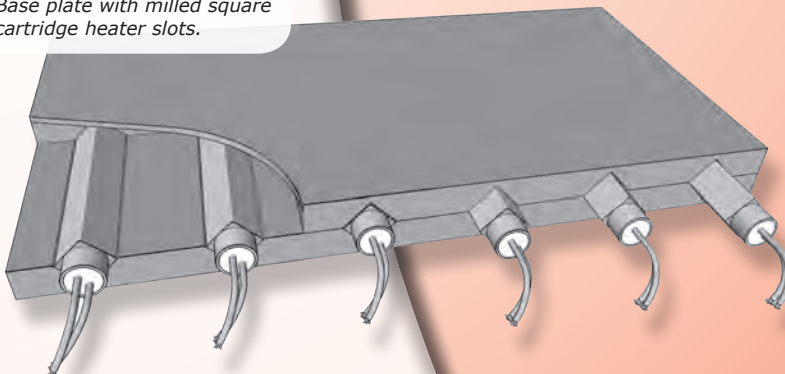
RECOMMENDED MAXIMUM WATT DENSITIES

Clearance (Inches)	Temperature in °F.					
	1200°F	1000°F	800°F	600°F	400°F	200°F
0.002	105	200	225	225	225	225
0.003	90	150	220	225	225	225
0.004	75	130	160	225	225	225
0.005	65	105	150	210	225	225
0.007	50	75	110	150	175	225
0.010	45	65	80	110	150	170
0.015	35	55	70	80	105	120
0.030	30	45	60	65	75	80
0.060	20	30	35	40	45	50
0.100	15	25	30	35	35	35

UNHEATED LENGTH AT LEAD END OF HEATER

Heater Length	.375" Diameter	.500" Diameter	.625" Diameter
Under 3" Long	.25	.30	.38
Over 3" Long	.90	.90	1.00

Base plate with milled square cartridge heater slots.

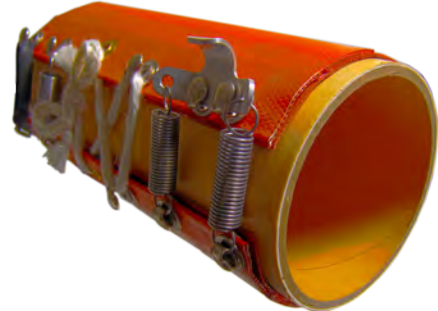


Other Backer Marathon Heater Products

AIR HEATERS



SILICONE RUBBER HEATERS



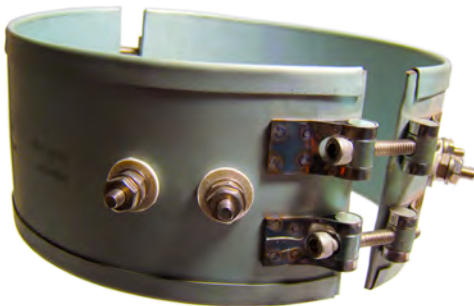
COIL HEATERS



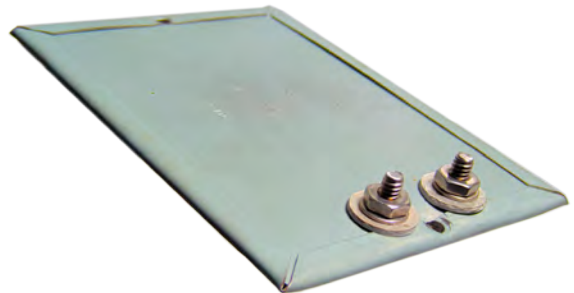
THERMOCOUPLES



MICA BAND HEATERS



MICA STRIP HEATERS



CERAMIC BAND HEATERS



CERAMIC STRIP HEATERS

