

LM Silicone Rubber Mat Heaters

Silicone rubber is ideally suited for the production of heater mats. With its low thermal mass and superb electrical insulation properties it allows high power densities with fast response to temperature control. With silicone's wide temperature range tolerance of -60°C to 230°C, being thin and lightweight it has a distinct advantage over other forms of heating elements. Where direct, precise and intimate heating is required silicone heaters are the ideal solution.

The stock/standard sensors are of an etched foil construction, with the foil tracks being laminated between two thin layers of silicone to give precise even heating and rapid heat up properties. All stocked mats are supplied with 500mm of PTFE flying leads and adhesive backing (rated +180°C continuous). The mats are semi-flexible

Where increased flexibility or a bespoke design is required a wire-wound mat offers a good solution. Using evenly spaced resistance wire, laminated between sheets of silicone, they are ideal for prototyping or problem-solving applications.

When manufactured to customer specifications they can be made in an extensive range of shapes and sizes: max width 940mm, max length 3000mm, nominal thickness (with adhesive) 0.8mm...3.0mm.

- · Etch Foil technology for stock/standard heaters (semi-flexible)
- · Wire wound technology for small/bespoke requirements (can be flexible)
- · Two ply woven glass textile reinforced silicone rubber construction
- · Precise, even heating, moisture and chemical resistant
- · Steam resistant up to 130°C or 2.5 bar

• Wide operating range: -60°C to +180°C (with adhesive), -60°C to +200°C (without adhesive) Range of power ratings available: 240V (AC or DC), 110V, 24V, 12V (AC or DC), 3-Phase (400/440V)





		wattage (W)	voltage (V)	
	25 x 50	1.24	12	LM25x50-1.24-12
	50 x 50	2.5	12	LM50x50-2.5-12
	50 x 75	3.75	12	LM50x75-3.75-12
	50 x 100	5	12	LM50x100-5-12
	50 x 150	7.5	12	LM50x150-7.5-12
Ħ	75 x 100	7.5	12	LM75x100-7.5-12
12 Volt	75 x 200	15	12	LM75x200-15-12
2	100 x 100	10	12	LM100x100-10-12
Ψ.	100 x 150	15	12	LM100x150-15-12
	150 x 200	30	12	LM150x200-30-12
	200 x 300	60	12	LM200x300-60-12
	200 x 400	80	12	LM200x400-80-12
	50 Ø	2	12	LM50-2-12
	75 Ø	4	12	LM75-4-12
	100 Ø	8	12	I M100-8-12

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	size (mm)	wattage (W)	voltage (V)	order code
	100 x 150	50	240	LM100x150-50-240
므	100 x 150	100	240	LM100x150-100-240
શ	150 x 200	100	240	LM150x200-100-240
	150 x 200	200	240	LM150x200-200-240
240 Volt	200 x 300	200	240	LM200x300-200-240
N	200 x 300	400	240	LM200x300-400-240
	200 x 400	267	240	LM200x400-267-240
	200 x 400	533	240	LM200x400-533-240

Please note: for high temperature applications alternative materials can be supplied. Contact sales for further information or to discuss your requirements for custom designs.

Need a thermocouple?



LBN Band/Nozzle Heaters

These stainless steel heaters are designed to clamp around barrels, metal pipes or tubular chambers to inject heat from the outside. The heaters are Mica insulated, 80/20 nickel/chrome elements, clamped and protected by a formed steel plate. The element resistors are carefully spaced to provide even heat. The split ring design allows the heater to be slipped over the barrel/tube and fastened into place by roll bolt clamps.

The standard design incorporates fibreglass insulated connection cable. The bands can be designed to incorporate cut-outs, various lengths, diameters and termination options.

- · Designed to clamp around barrels, metal pipes and tubular chambers
- · Coated mild/stainless steel band body, Mica insulated elements
- · Supplied as standard with fibreglass insulated cable
- · Custom designs available



Note: Other diameters, widths and wattages are available

•	Troto. Other diameters, matter and manages are available.
Technical Details	
Heater Band Body	Coated Mild/Stainless Steel
Element / Element Insulation	80/20 Nickel Chrome / 3 x Phlogopite Mica wound plates
Cable	Glass fibre insulated x 610mm (24") long
Supply Voltage	240V AC Nominal (other voltages available)
Max. Operation Temperature	Approximately +250°C
Wattage	Nominal Wattage varies with voltage. W2=W1 (E2/E1) ²
vvallage	(W1 = rated wattage, W2 = actual wattage, E1 = rated voltage, E2 = supply voltage)
Manufacturing Tolerances	Inside Diameter: ±0.635mm, Width: ±0.635mm, Resistance: ±7%

to suit pipe OD (mm)	width (mm)	wattage (W)	voltage (V)	watts density (W/cm²)	order code
25	25	120	240	6.1	LBN25-25-120-240
35	45	225	240	4.5	LBN35-45-225-240
38	38	175	240	3.9	LBN38-38-175-240
40	50	280	240	4.5	LBN40-50-280-240
50	50	300	240	3.8	LBN50-50-300-240

