

## LB Nozzle/Band 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 elements, clamped and protected by a formed steel plate. 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 stainless steel braided, fibreglass insulated connection cable, with an earth lead for bonding. 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
- Anti-rust stainless steel band body, Mica insulated elements
- Supplied as standard with stainless steel braided, fibreglass insulated cable



Technical Details	
Heater Band Body	Anti-rust coated steel
Element Insulation	Insulated element wire sandwiched by Mica sheet
Cable	Stainless steel braided, glass fibre insulated x 1000mm long
Supply Voltage	240V AC Nominal (other voltages available)
Max. Operation Temperature	Approximately +280°C at 1.55W/cm <sup>2</sup>
Wattage	Nominal Wattage varies with voltage. W2=W1 (E2/E1) <sup>2</sup> (W1 = rated wattage, W2 = actual wattage, E1 = rated voltage, E2 = supply voltage)

To Suit Pipe OD (mm)	Width (mm)	Wattage (W)	Voltage (V)	Order Code
25	25	120	240	LB25-25-120-240
35	45	225	240	LB35-45-225-240
38	38	175	240	LB38-38-175-240
40	50	280	240	LB40-50-280-240
50	50	300	240	LB50-50-300-240

Note: Other diameters, widths and wattages are available. Please contact sales for further information.

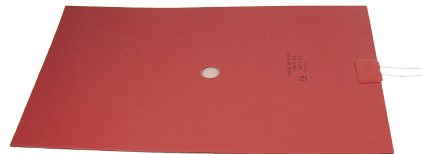
## LM Silicone Rubber Mat Heaters

Where flat surfaces or awkward shapes are required to be evenly heated, silicone mat heaters are an excellent solution. Using evenly-spaced resistance wires, laminated between sheets of silicone, wire-wound mats are ideal for prototyping or problem-solving applications.

High flexibility can be obtained using tough, robust silicone materials which are finding ever increasing applications throughout industry. Silicone has a wide temperature range tolerance of -60°C to +200°C and superb electrical insulation properties that gives rubber mat heaters a distinct advantage over other forms of surface heating.

All stocked mats are supplied with 500mm of PTFE flying leads and self adhesive backing. Please note: glue used for the self adhesive backing is rated to +180°C continuous use. When manufactured to customer specifications they can be made in a limitless range of shapes and sizes.

- Etch Foil technology for large quantities
- Wire wound technology for small requirements
- Precise, even heating
- Flexible and lightweight
- Moisture and chemical resistant
- Wide operating range: -60°C to +180°C (with adhesive), -60°C to +200°C (without adhesive)
- Range of power ratings available (240V, 110V, 24V, 12V)



All stock 240V heaters include a 17mm diameter centre hole



Please note: for high temperature applications alternative materials can be supplied. Please contact sales for further information.

Size (mm)	Wattage (W)	Voltage (V)	Order Code
50 Ø	2	12	LM50-2-12
75 Ø	4	12	LM75-4-12
100 Ø	8	12	LM100-8-12
50 x 50	2.5	12	LM50x50-2.5-12
50 x 100	5	12	LM50x100-5-12
100 x 150	50	240	LM100x150-50-230
100 x 150	100	240	LM100x150-100-230
150 x 200	100	240	LM150x200-100-230
150 x 200	200	240	LM150x200-200-230
200 x 300	200	240	LM200x300-200-230
200 x 300	400	240	LM200x300-400-230
200 x 400	267	240	LM200x400-267-230
200 x 400	533	240	LM200x400-533-230

Note: For custom designs, please contact sales to discuss your requirements.