Silicone Rubber Heater Mats

Silicone rubber mat heaters are ideal for applying heat to awkward shapes or difficult spaces and surfaces. Most heater mats are supplied with an adhesive backing and can operate up to a maximum temperature of 180°C, non adhesive backed mats can also be supplied which can operate up to 200°C.

However we would always recommend that the mats are controlled to the working temperature via electro mechanical or digital thermostats / controllers. The mats can also be fitted with integral thermocouples and over temperature bimetallic switches.

Typical applications for these mats are packaging, space warming, anti condensation heating and demisting, ovens, incubators, laboratory equipment, medical products and a range of catering and refrigeration uses such as hot food counters, vending equipment and drip tray heating.

- Moisture resistant silicone rubber heater
- 1,000mm long silicone rubber flying leads
- All voltages available
- Mat thickness 1.1mm ± 0.1mm

Custom Heater Design

We offer a full prototype to production service enabling customers to meet their specific requirements. Upon request the mats can be made in an almost limitless range of sizes and shapes with cut-outs and holes fabricated in the mats and fitted with thermocouples and thermal limiters as required.

UL and High Temperature Designs Available.

<table>
<thead>
<tr>
<th>Part No</th>
<th>Mat Size</th>
<th>Wattage Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>308-080-131</td>
<td>200 x 400mm</td>
<td>150 230</td>
</tr>
<tr>
<td>308-080-261</td>
<td>250 x 150mm</td>
<td>200 230</td>
</tr>
<tr>
<td>308-080-281</td>
<td>450 x 450mm</td>
<td>500 230</td>
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</tbody>
</table>

Things to Consider...

- **The Heater Size and Shape**
  - Standard Rectangle
  - Circular
  - Completely bespoke shape to fit your needs

- **The Wattage Required**
  - There is finite limit to the Wattage/m² without the need for additional heat sinks, no standard

- **The Length of Leads and their Position**
  - Standard is 1 metre in the middle of short side

- **Requirement for Imbedded Temperature Sensor or Thermal Cut-Out**

- **Self Adhesive?**
  - The mats are typically supplied with a self adhesive backing. This limits the risk of poor adhesion and ‘Hotspots’.

For technical advice on your specific requirements, contact our expert consultants on +44 (0) 1483 869070 or export@hawco.co.uk
Silicone Rubber Insulated Heaters

- Custom Design
- Etch Foil and Wire Wound Technology
- Precise Even Heating
- Flexible and Lightweight
- Moisture and Chemical Resistant
- Wide Temperature Range -60 to +230°C
- UL and VDE Approval available
- Low Smoke and Low Toxicity Options available
- Full Design and Manufacturing Service
- 3-5 Day Delivery

- Quality Assured
- Dedicated Design
- Cost Effective
- Express Delivery

HOLROYD

UL and VDE approved manufacturing facilities
Advantages:
Holroyd silicone heaters are suitable for applications where precise and intimate heating is required. Being thin and lightweight, silicone heater mats have a low thermal mass and hence have rapid heat up characteristics with fast response to temperature control.

Silicone’s wide temperature range tolerance of -60 to +230°C and superb electrical properties give it a distinct advantage over other forms of heating.

Applications:
Holroyd supply silicone heaters for a multitude of applications including industrial catering, battery warming, environmental control or electronics particularly telecommunications, composite repair of aircraft, laboratory equipment, satellite dish snow melting, anti-condensation and GRP pipe curing systems. The uses for silicone heater mats are infinite as they can suit any application requiring surface heating up to 230°C. Their suitability for arduous conditions has been proven in applications from polar expedition to space exploration. We are the final frontier in silicone heaters!

Installation and Fixing:
Our self adhesive option is a quick and simple fixing method which provides superb bonding results to many surfaces including low energy materials. Where removal of the heater is necessary alternative fixings are available such as hooks and straps as well as Velcro and magnetic backed options. Most mechanical fixing methods can be accommodated.

Thermal Control:
An extensive range of thermal control devices can be incorporated onto the heaters, these include thermocouples, platinum sensors and limit switches. Pockets and housings can also be applied enabling the client to install their own control devices such as PT100’s and capillary thermostats.

Service and Design:
Providing the full design service Holroyd can manufacture virtually any shape and size heater coupled with short delivery times of 3-5 days. From prototype to production, spares and problem solving, Holroyd cover the full spectrum.

Customer Support:
Established in 1972 Holroyd have been providing surface heating solutions for customer requirements throughout the world. As Europe’s largest specialised silicone rubber heater manufacturer our experience and product range is vast.