

# Flexible Silicone Heaters

A new line of flexible silicone heating elements is now part of ITC's product offerings.

Flexible heaters can bend and contour to various specific application requirements. They can be attached to flat or curved surfaces, to allow for better and more effective transfer of heat. This makes them ideal for equipment where standard operating conditions would prevent usage of conventional heating methods. Flexible heating elements encapsulated in silicone provide protection against moisture, chemicals, and are often more robust than other heating solutions. Silicone offers high electrical insulating properties and is also tolerant of a wide range of temperature extremes. Power is supplied via permanently connected leads.

These thin light-weight heaters with high watt density can be attached with fasteners or adhesive on a surface to be heated. Standard models come without adhesive, but can be customized with adhesive. Thermostats are recommended and the heaters should be installed on an electrical system protected by a residual current circuit breaker.

## Features and specifications:

- High watt density
- Excellent heat distribution
- Moisture and chemical resistant
- Flexible and lightweight
- Custom sizes can be ordered
- **Maximum size:** 595 x 2500mm (23.4 x 98.4")
- **Thickness:** 0.8 - 1.5mm (0.031 - 0.059")
- **Temperature range:** -60 to 180°C
- **Operating voltage:** 120V or 12V AC/DC (custom values available)
- **Approvals:** cULus or cUR, CSA (depending on model)



## Some typical applications:

- Medical / Laboratory research
- Photographic and optical equipment
- Battery warming
- Satellite dish snow melting
- Anti-condensation in enclosures
- Oil & Gas pipelines
- Wind turbine housings
- Military / Aerospace





**Square/Rectangular Flexible Silicon Heaters (Order by Part No.)**

Part No.	Cert.	Dimensions		Voltage	Power
		mm	Inches		
115.300101		50.8 x 101.6	2" x 4"	120V	40W
115.300102		50.8 x 101.6	2" x 4"	120V	60W
115.300103		50.8 x 101.6	2" x 4"	120V	100W
115.300104		101.6 x 101.6	4" x 4"	120V	200W
115.300105		101.6 x 203.2	4" x 8"	120V	100W
115.300106		101.6 x 203.2	4" x 8"	120V	200W
115.300107		101.6 x 203.2	4" x 8"	120V	400W
115.300108		101.6 x 279.4	4" x 11"	120V	150W
115.300110		101.6 x 279.4	4" x 11"	120V	500W
115.300111		203.2 x 203.2	8" x 8"	120V	800W
115.300121		50.8 x 50.8	2" x 2"	12V	50W
115.300125		50.8 x 50.8	2" x 2"	24V	50W

Information subject to change without notice  
All standard models above supplied with 500mm leads

**Round Flexible Silicon Heaters (Order by Part No.)**

Part No.	Cert.	Dimensions (diameter)		Voltage	Power
		mm	Inches		
115.300112		101.6	4"	120V	40W
115.300113		101.6	4"	120V	60W
115.300114		101.6	4"	120V	100W
115.300115		152.4	6"	120V	200W
115.300117		152.4	6"	120V	100W
115.300119		203.2	8"	120V	400W
115.300120		203.2	8"	120V	150W
115.300122		101.6	4"	12V	500W
115.300123		101.6	4"	12V	800W
115.300124		101.6	4"	12V	120W
115.300126		101.6	4"	24V	40W
115.300127		101.6	4"	24V	80W
115.300128		101.6	4"	24V	120W

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