

STOCK FLEXIBLE FOIL HEATERS

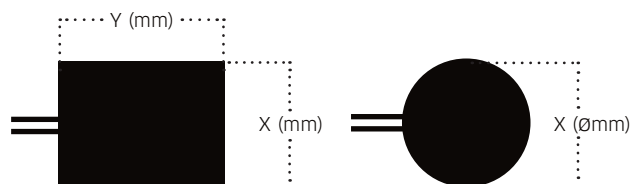
Description

Calesco has a selection of heaters available on stock for immediate delivery to customers. The heaters are designed to a certain resistance and can be operated under different voltages to give different power as shown in the tables below. The heaters can be incorporated directly into a heating application, if the performance is right, or be used as a test heater to figure out the appropriate surface power for the specific application before ordering a tailor made heater.

Note: At surface power over ca 0,4/cm² the heater requires good contact with a suitable heat sink.

Specification for each heater type can be found in the corresponding data sheet.

Type (form)



>> Silicone

Silicon rubber is a rugged, flexible material with excellent temperature properties, max 230°C. Fiberglass-reinforced silicone rubber gives your heater dimension stability without sacrificing flexibility. The silicone heater is chemical resistant and can be cold laminated with adhesive to various surfaces.

Part No.	X (mm)	Y (mm)	Type	Area (cm ²)	Resistance (Ohm)	12V	24V	48V	110V	230V	400V
						Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
SI107844-00	25	50	≡■	12.5	56,9	2.5	10.1	40.5	-	-	-
SI102985-00	25	50	≡■	12.5	28,5	5.0	20.0	80.0	-	-	-
SI102987-00	50	50	≡■	25	28.8	5.0	20.0	80.0	-	-	-
SI102989-00	50	100	≡■	50	14.4	10.0	40.0	160.0	-	-	-
SI102991-00	95	110	≡■	100	150.5	-	-	15.3	80.0	350.3	-
SI102993-00	95	200	≡■	200	75.5	-	-	30.5	160.3	700.7	-
SI102995-00	95	200	≡■	200	331	-	-	-	36.6	159.8	483.4
SI102997-00	190	200	≡■	400	38,2	-	-	60	316,7	1384	-
SI102999-00	190	200	≡■	400	165	-	-	-	73.3	320.6	969.7
SI103001-00	190	300	≡■	600	110	-	-	-	110.0	480.9	1454.5
SI103003-00	∅ 50	-	≡●	20	18.9	7.6	30.5	-	-	-	-
SI103005-00	∅ 70	-	≡●	38	19.2	7.5	30.0	120.0	-	-	-
SI103007-00	∅ 100	-	≡●	79	9	16.0	64.0	256.0	-	-	-
SI103009-00	∅ 150	-	≡●	177	16.5	-	34.9	139.6	733.3	-	-
SI103011-00	∅ 200	-	≡●	314	211.5	-	-	-	57.2	250.0	756.1

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>> Polyimide

Polyimide is a thin, semi-transparent material with excellent dielectric strength. It is also resistant to most chemical acids and bases. Temperature range as low as -271°C (liquid helium) and as high as 200°C.

Part No.	X (mm)	Y (mm)	Type	Area (cm ²)	Resistance (Ohm)	1,5V	3V	4,5V	6V	9V	12V	24V	48V
						Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
PI102831-00	25	50	≡■	12.5	1.9	1.2	4.7	10.7	18.9	-	-	-	-
PI102833-00	50	50	≡■	25	3.6	0.6	2.5	5.6	10.0	22.5	40.0	-	-
PI102835-00	50	100	≡■	50	1.8	1.3	5.0	11.3	20.0	45.0	80.0	-	-
PI102837-00	100	100	≡■	100	3.6	-	2.5	5.6	10.0	22.5	40.0	160.0	-
PI102839-00	100	200	≡■	200	1.8	-	5.0	11.3	20.0	45.0	80.0	320.0	-
PI102841-00	195	200	≡■	400	3.6	-	-	-	10.0	22.5	40.0	160.0	640.0
PI102843-00	195	300	≡■	600	2.4	-	-	-	15.0	33.8	60.0	240.0	960.0

>> Micanite

The Mica heaters are an etched foil element, sandwiched between layers of mica. Mica material creates a fairly rigid heater, but is also able to handle extreme temperatures. For use at lower temperatures (below 100°C), it works perfect as a stand-alone heater. However, higher temperatures require proper support and even pressure to provide good heat transfer. For example, it can be uniformly clamped between two metal plates.

Part No.	X (mm)	Y (mm)	Type	Area (cm ²)	Resistance (Ohm)	12V	24V	48V	110V	230V	400V
						Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
MI102981-01	100	100	≡■	100	353.0	-	-	6.5	34.3	149.9	453.3
MI102983-01	180	200	≡■	400	88.35	-	-	26	136.9	598.7	1810