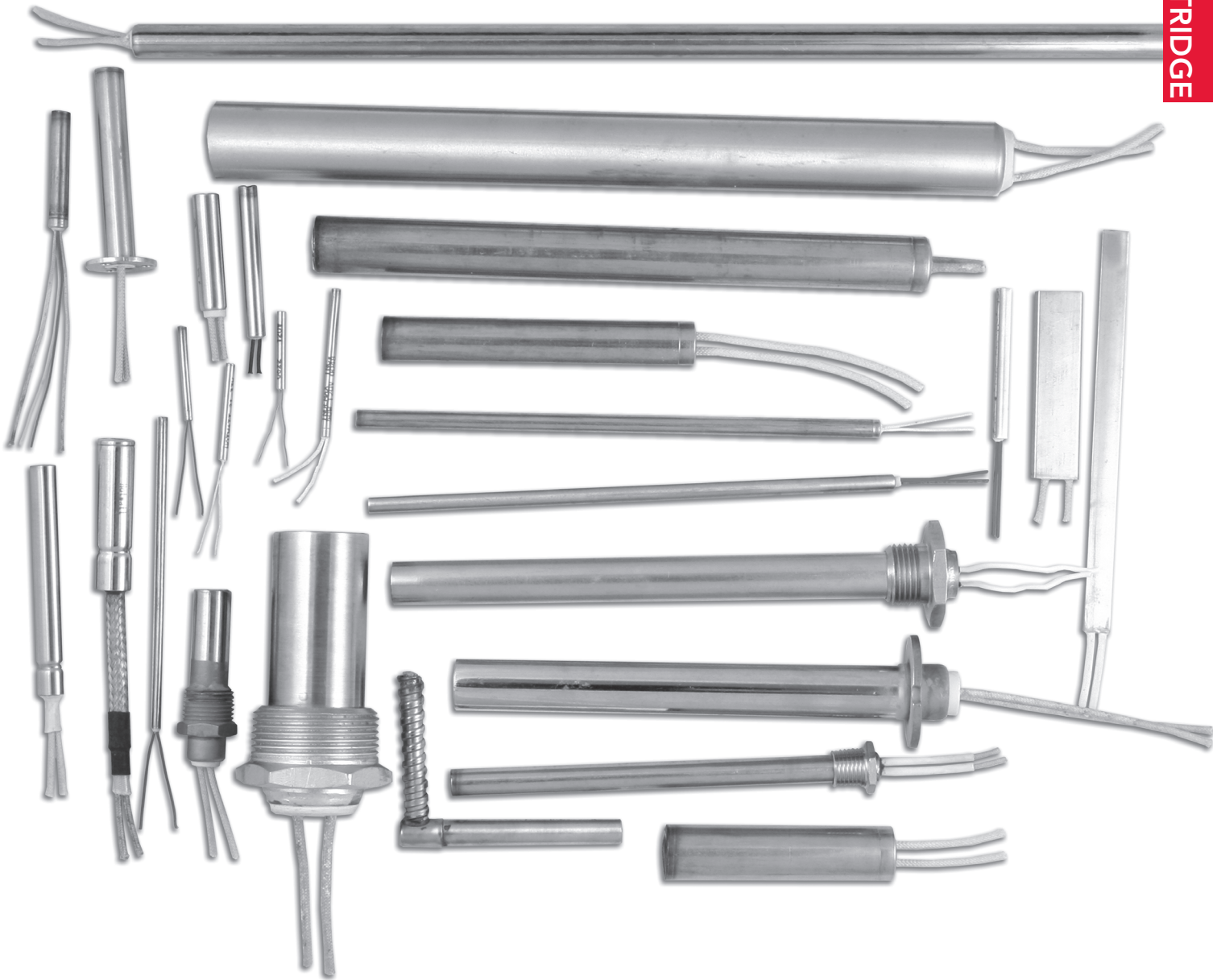




Cartridge Heaters

CARTRIDGE



Hotwatt manufactures a wide range of cartridge heating units for a variety of applications. This size, sheath, leads, terminals, wattage and voltage can be adapted to your heating requirements.

Hotwatt can provide you with heating units manufactured to your specifications to accommodate your application. Hotwatt stocks all material for the different diameter units listed in this catalog. Your order, specifying the wattage, voltage, diameter, length and lead type is readily and quickly fabricated from our inventory. In addition, many standard sizes are available from stock for immediate delivery.

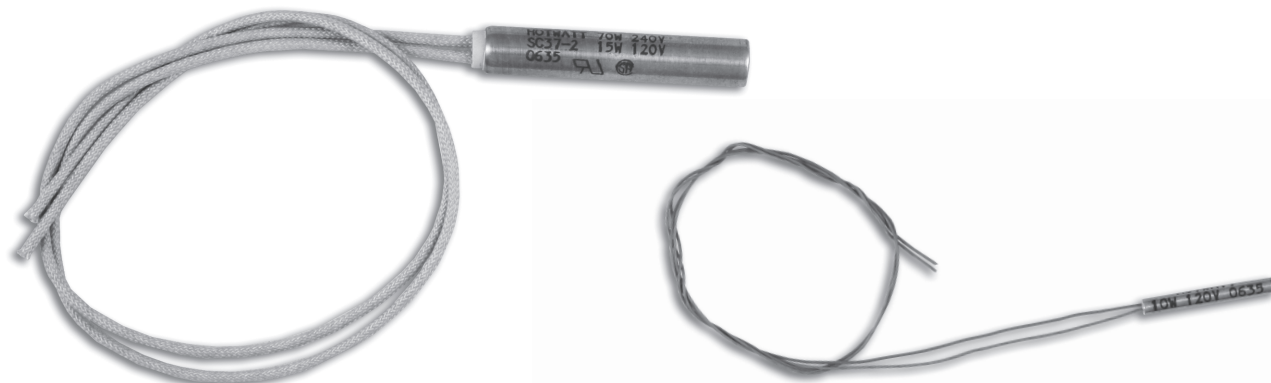


Cartridge Heaters

Low to Medium Watt Density

U.L. Recognized – E56973
C.S.A. Certified 016386-0-000

CARTRIDGE



Applications:

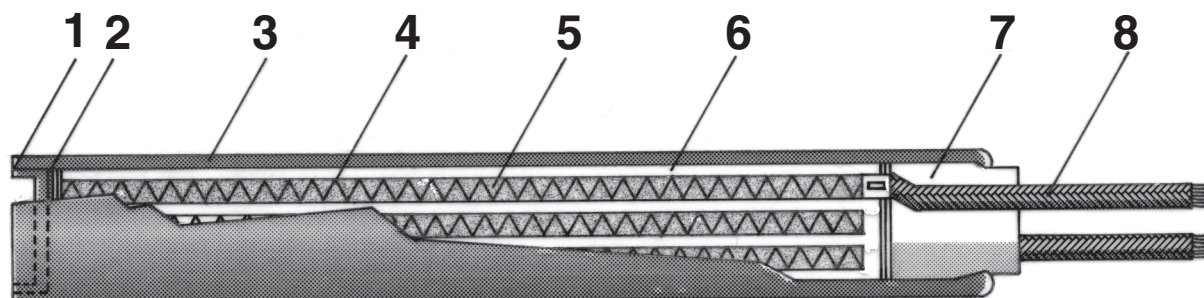
Compressor Crankcase Heating, Copiers, Dies, Food Processing, Glue Pots, Heat Sealing, Hot Melt Adhesive, Labeling, Medical Equipment, Packaging, Photographic Processing, Plastic Molding, Platens, Wax Pots.

Features:

- Hotwatt Precision Cartridge Heaters provided localized heat to restricted work areas requiring close thermal control. Dies, platens, and a variety of other types of processing equipment are efficiently heated. Closely controlled work temperatures up to 1250°F are obtained by a combination of heater location and proper wattage output.
- Basic designs are readily adaptable to a wide variety of special requirements, sizes, or ratings.
- Maximum surface temperatures up to 1250° F.
- Designations are etched on the sheath to preserve accurate shape.
- Heating elements arranged just beneath outside surface for maximum heat transfer, minimum core temperature and faster heating.
- Made in U.S.A.
- Where specified, units can be supplied liquid tight.
- Long, trouble free service.

Construction:

- 1 Heliarc welded end seal.
- 2 Mica.
- 3 Series 300 stainless steel sheath of precision dimensions and tolerances for intimate, stable, non-oxidizing contact with cavities machined for them.
- 4 Element wire situated in close proximity to outside surface for maximum heat transfer and minimum internal temperature while preserving good dielectric qualities.
- 5 Magnesium oxide packing.
- 6 Ceramic element support.
- 7 Ceramic cap.
- 8 Teflon insulated leads: ¼" diameter
Fiberglass leads: ⅜" – ¾" diameter
Post terminals: ⅛" – 2⅜"





Cartridge Heaters

Low to Medium Watt Density

CARTRIDGE

Manufactured Items

Round

Diameter: $\frac{1}{8}$ " (.124/.120)
Maximum Amperage: 2 Not UL/CSA

$\frac{5}{32}$ " (.155/.152)
2 Not UL/CSA

$\frac{3}{16}$ " (.186/.183)
3.5

Sheath Length	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts
1"	SC12-1	10	15	SC15-1	10	15	SC18-1	10	20
1½"	SC12-1.5	10	25	SC15-1.5	10	25	SC18-1.5	10	32
2"	SC12-2	10	35	SC15-2	10	35	SC18-2	10	44
2½"	SC12-2.5	10	45	SC15-2.5	10	45	SC18-2.5	10	55
3"	SC12-3	10	55	SC15-3	10	55	SC18-3	10	70
3½"	SC12-3.5	10	65	SC15-3.5	10	65	SC18-3.5	10	80
4"	SC12-4	10	75	SC15-4	10	75	SC18-4	10	95
4½"	SC12-4.5	10	85	SC15-4.5	10	85	SC18-4.5	10	105
5"	SC12-5	10	95	SC15-5	10	95	SC18-5	10	120
5½"	SC12-5.5	10	105	SC15-5.5	10	105	SC18-5.5	10	132
6"	SC12-6	10	115	SC15-6	10	115	SC18-6	10	145
6½"	SC12-6.5	10	125	SC15-6.5	10	125	SC18-6.5	10	157
7"	SC12-7	10	135	SC15-7	10	135	SC18-7	10	170
7½"	SC12-7.5	10	145	SC15-7.5	10	145	SC18-7.5	10	182
8"	SC12-8	10	155	SC15-8	10	155	SC18-8	10	195
8½"	SC12-8.5	10	165	SC15-8.5	10	165	SC18-8.5	10	207
9"	SC12-9	10	175	SC15-9	10	175	SC18-9	10	220
9½"	SC12-9.5	10	185	SC15-9.5	10	185	SC18-9.5	10	232
10"	SC12-10	10	195	SC15-10	10	195	SC18-10	10	245
10½"	SC12-10.5	10	205	SC15-10.5	10	205	SC18-10.5	10	257
11"	SC12-11	10	215	SC15-11	10	215	SC18-11	10	270
11½"	SC12-11.5	10	225	SC15-11.5	10	225	SC18-11.5	10	282
12"	SC12-12	10	235	SC15-12	10	235	SC18-12	10	295

For longer lengths,
compute wattage at: 10 watts per linear $\frac{1}{2}$ "
• Lengths longer than those listed may be ordered.

10 watts per linear $\frac{1}{2}$ "

12 watts per linear $\frac{1}{2}$ "

Wattage

Minimum Wattage

The following table should be used to determine the allowable voltage for low wattage miniature elements:

Size:	$\frac{1}{8}$ " Dia.-	$\frac{5}{32}$ " Dia.	$\frac{3}{16}$ " Dia.
Length	30v	60v	120v 230v
1"	.6w	2.5w	10w NA
1½"	.6w	2.5w	10w NA
2"	.5w	2w	8w 27w

NA-Not Available

IN STOCK ITEMS

Diameter: $\frac{1}{8}$ "

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1"	SC12-1	10	120	35	.01
1"	SC12-1	15	120	50	.01
1½"	SC12-1.5	20	120	40	.03
1½"	SC12-1.5	25	120	50	.03
2"	SC12-2	35	120	50	.06

Diameter: $\frac{5}{32}$ "

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1"	SC15-1	10	120	25	.05
1½"	SC15-1.5	20	120	35	.07
2"	SC15-2	35	120	40	.09

Diameter: $\frac{3}{16}$ "

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1½"	SC18-1.5	30	120	40	.07
2"	SC18-2	35	120	35	.09
3"	SC18-3	65	120	40	.11
4"	SC18-4	90	120	40	.13
4"	SC18-4	60	120	25	.13
4"	SC18-4	100	120	45	.13



Cartridge Heaters

Low to Medium Watt Density

CARTRIDGE

▼ Manufactured Items ▼

Diameter: ¼" (.249/.245)
 Maximum Amperage: 3.5

⅝" (.311/.307)
 6

¾" (.374/.370)
 6

Sheath Length	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts
1"	SC25-1	10	25	SC32-1	10	35	SC37-1	10	35
1½"	SC25-1.5	10	50	SC32-1.5	10	70	SC37-1.5	10	70
2"	SC25-2	10	75	SC32-2	10	105	SC37-2	10	105
2½"	SC25-2.5	10	100	SC32-2.5	10	140	SC37-2.5	10	140
3"	SC25-3	10	125	SC32-3	10	175	SC37-3	10	175
3½"	SC25-3.5	10	150	SC32-3.5	10	210	SC37-3.5	10	210
4"	SC25-4	10	175	SC32-4	10	245	SC37-4	10	245
4½"	SC25-4.5	10	200	SC32-4.5	10	285	SC37-4.5	10	285
5"	SC25-5	10	225	SC32-5	10	325	SC37-5	10	325
5½"	SC25-5.5	10	250	SC32-5.5	10	360	SC37-5.5	10	360
6"	SC25-6	10	275	SC32-6	10	395	SC37-6	10	395
6½"	SC25-6.5	10	300	SC32-6.5	10	430	SC37-6.5	10	430
7"	SC25-7	10	325	SC32-7	10	465	SC37-7	10	465
7½"	SC25-7.5	10	350	SC32-7.5	10	500	SC37-7.5	10	500
8"	SC25-8	10	375	SC32-8	10	535	SC37-8	10	535
8½"	SC25-8.5	10	400	SC32-8.5	10	570	SC37-8.5	10	570
9"	SC25-9	10	425	SC32-9	10	605	SC37-9	10	605
9½"	SC25-9.5	10	450	SC32-9.5	10	640	SC37-9.5	10	640
10"	SC25-10	10	475	SC32-10	10	675	SC37-10	10	675
10½"	SC25-10.5	10	500	SC32-10.5	10	710	SC37-10.5	10	710
11"	SC25-11	10	525	SC32-11	10	745	SC37-11	10	745
11½"	SC25-11.5	10	550	SC32-11.5	10	780	SC37-11.5	10	780
12"	SC25-12	10	575	SC32-12	10	815	SC37-12	10	815

For longer lengths,
 compute wattage at: **25 watts per linear ½"**
 • Lengths longer than those listed may be ordered.

35 watts per linear ½"

35 watts per linear ½"

▼ IN STOCK ITEMS ▼

Diameter: ¼"

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1"	SC25-1	20	120	35	.01
1¼"	SC25-1.25	20	120	25	.01
1½"	SC25-1.5	7	120	7	.02
1½"	SC25-1.5	12	120	12	.02
1½"	SC25-1.5	30	120	30	.02
1½"	SC25-1.5	30	240	30	.02
1½"	SC25-1.5	50	120	50	.02
1½"	SC25-1.5	50	240	50	.02
2"	SC25-2	12	120	9	.03
2"	SC25-2	50	120	35	.03
2"	SC25-2	50	240	35	.03
2¼"	SC25-2.25	20	120	12	.03
2¼"	SC25-2.25	75	240	50	.03
2½"	SC25-2.5	20	120	9	.04
2½"	SC25-2.5	65	120	35	.04
2½"	SC25-2.5	65	240	35	.04

Diameter: ¼" (continued)

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
3"	SC25-3	25	120	11	.05
3"	SC25-3	100	240	45	.05
3½"	SC25-3.5	25	120	9	.06
3½"	SC25-3.5	90	120	35	.06
3½"	SC25-3.5	90	240	35	.06
4"	SC25-4	25	120	10	.07
4"	SC25-4	110	120	40	.07
4"	SC25-4	110	240	40	.07
4½"	SC25-4.5	25	120	7	.08
4½"	SC25-4.5	110	120	30	.08
4½"	SC25-4.5	110	240	30	.08
7"	SC25-7	40	120	8	.12
7"	SC25-7	150	120	29	.12
7"	SC25-7	150	240	29	.12



Cartridge Heaters

Low to Medium Watt Density

▼ IN STOCK ITEMS (Continued) ▼

Diameter: $\frac{3}{8}$ "

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1"	SC37-1	30	120	40	.04
1½"	SC37-1.5	10	120	5	.07
1½"	SC37-1.5	30	120	20	.07
1½"	SC37-1.5	30	240	20	.07
1½"	SC37-1.5	50	120	40	.07
1½"	SC37-1.5	50	240	40	.07
2"	SC37-2	15	120	9	.09
2"	SC37-2	70	120	35	.09
2"	SC37-2	70	240	35	.09
2"	SC37-2	100	120	50	.09
2½"	SC37-2.5	25	120	10	.12
2½"	SC37-2.5	100	120	40	.12
2½"	SC37-2.5	100	240	40	.12
3"	SC37-3	20	120	6	.15
3"	SC37-3	75	120	25	.15
3"	SC37-3	75	240	25	.15
3½"	SC37-3.5	40	120	12	.18
3½"	SC37-3.5	150	120	50	.18
3½"	SC37-3.5	150	240	50	.18
4"	SC37-4	20	120	5	.20
4"	SC37-4	55	120	12	.20
4"	SC37-4	75	240	20	.20
4"	SC37-4	220	120	50	.20
4"	SC37-4	220	240	50	.20
4½"	SC37-4.5	60	120	12	.23
4½"	SC37-4.5	250	120	50	.23
4½"	SC37-4.5	250	240	50	.23
5"	SC37-5	70	120	12	.27
5"	SC37-5	280	120	50	.27
5"	SC37-5	280	240	50	.27
5½"	SC37-5.5	25	120	4	.31
5½"	SC37-5.5	100	240	15	.31
6"	SC37-6	90	120	12	.36
6"	SC37-6	350	120	50	.36
6"	SC37-6	350	240	50	.36
8"	SC37-8	125	120	14	.16
8"	SC37-8	500	120	58	.16
8"	SC37-8	500	240	58	.18
9"	SC37-9	140	120	14	.18
9"	SC37-9	550	120	55	.18
9"	SC37-9	550	240	55	.18
10"	SC37-10	100	120	9	.20
10"	SC37-10	400	120	36	.20
10"	SC37-10	400	240	36	.20
12"	SC37-12	150	120	11	.22
12"	SC37-12	600	120	45	.22
12"	SC37-12	600	240	45	.22

CARTRIDGE



Cartridge Heaters

Low to Medium Watt Density

CARTRIDGE

▼ Manufactured Items ▼

Diameter:	¼" (.499/.494)				⅝" (.624/.619)			¾" (.749/.741)		
Maximum Amperage:	10				10			15		
	Sheath Length	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts
	1"	SC50-1	10	55	SC62-1	10	60			
	1½"	SC50-1.5	10	100	SC62-1.5	10	120	SC75-1.5	40	140
	2"	SC50-2	10	145	SC62-2	10	180	SC75-2	40	210
	2½"	SC50-2.5	10	190	SC62-2.5	10	240	SC75-2.5	40	280
	3"	SC50-3	10	235	SC62-3	10	300	SC75-3	40	350
	3½"	SC50-3.5	10	280	SC62-3.5	10	360	SC75-3.5	40	420
	4"	SC50-4	10	325	SC62-4	10	420	SC75-4	40	490
	4½"	SC50-4.5	10	370	SC62-4.5	10	480	SC75-4.5	40	560
	5"	SC50-5	10	415	SC62-5	10	540	SC75-5	40	630
	5½"	SC50-5.5	10	460	SC62-5.5	10	600	SC75-5.5	40	700
	6"	SC50-6	10	505	SC62-6	10	660	SC75-6	40	770
	6½"	SC50-6.5	10	550	SC62-6.5	10	720	SC75-6.5	40	840
	7"	SC50-7	10	595	SC62-7	10	780	SC75-7	40	910
	7½"	SC50-7.5	10	640	SC62-7.5	10	840	SC75-7.5	40	980
	8"	SC50-8	10	685	SC62-8	10	900	SC75-8	40	1050
	8½"	SC50-8.5	10	730	SC62-8.5	10	960	SC75-8.5	40	1120
	9"	SC50-9	10	775	SC62-9	10	1020	SC75-9	40	1190
	9½"	SC50-9.5	10	820	SC62-9.5	10	1080	SC75-9.5	40	1260
	10"	SC50-10	10	865	SC62-10	10	1140	SC75-10	40	1330
	10½"	SC50-10.5	10	910	SC62-10.5	10	1200	SC75-10.5	40	1400
	11"	SC50-11	10	955	SC62-11	10	1260	SC75-11	40	1470
	11½"	SC50-11.5	10	1000	SC62-11.5	10	1320	SC75-11.5	40	1540
	12"	SC50-12	10	1045	SC62-12	10	1380	SC75-12	40	1610

For longer lengths,
compute wattage at: **45 watts per linear 1/2"**
• Lengths longer than those listed may be ordered.

60 watts per linear 1/2"

70 watts per linear 1/2"

▼ IN STOCK ITEMS ▼

Diameter: 1/2"

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
1 1/2"	SC50-1.5	18	120	12	.07
1 1/2"	SC50-1.5	75	120	50	.07
1 1/2"	SC50-1.5	75	240	50	.07
1 1/2"	SC50-1.5	90	120	60	.07
2"	SC50-2	30	120	12	.11
2"	SC50-2	120	120	50	.11
2"	SC50-2	120	240	50	.11
2 1/2"	SC50-2.5	40	120	12	.14
2 1/2"	SC50-2.5	80	120	25	.14
2 1/2"	SC50-2.5	150	120	50	.14
2 1/2"	SC50-2.5	150	240	50	.14
3"	SC50-3	50	120	12	.17
3"	SC50-3	200	120	50	.17
3"	SC50-3	200	240	50	.17
4"	SC50-4	70	120	12	.23

Diameter: 1/2" (continued)

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
4"	SC50-4	275	120	50	.23
4"	SC50-4	275	240	50	.23
5"	SC50-5	85	120	12	.27
5"	SC50-5	350	120	50	.27
5"	SC50-5	350	240	50	.27
6"	SC50-6	110	120	12	.33
6"	SC50-6	425	120	50	.33
6"	SC50-6	425	240	50	.33
7"	SC50-7	135	120	14	.48
7"	SC50-7	550	120	55	.48
7"	SC50-7	550	240	55	.48
8"	SC50-8	160	120	14	.53
8"	SC50-8	650	120	55	.53
8"	SC50-8	650	240	55	.53
10"	SC50-10	210	120	14	.62



Cartridge Heaters

Low to Medium Watt Density

▼ IN STOCK ITEMS (Continued) ▼

Diameter: 1/2" (continued)

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
10"	SC50-10	850	120	55	.62
10"	SC50-10	850	240	55	.62
12"	SC50-12	250	120	14	.69
12"	SC50-12	1000	120	55	.69
12"	SC50-12	1000	240	55	.69
14"	SC50-14	250	120	12	.48
14"	SC50-14	1000	240	48	.48
16"	SC50-16	250	120	10	.52
16"	SC50-16	1000	240	41	.52
18"	SC50-18	300	120	11	.57
18"	SC50-18	1200	240	44	.57
24"	SC50-24	450	120	12	1.34
24"	SC50-24	1800	240	49	1.34

Diameter: 5/8"

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
2 1/2"	SC62-2.5	20	120	5	.15
2 1/2"	SC62-2.5	50	120	12	.15
2 1/2"	SC62-2.5	75	240	20	.15
2 1/2"	SC62-2.5	200	120	50	.15
2 1/2"	SC62-2.5	200	240	50	.15
3"	SC62-3	65	120	12	.21
3"	SC62-3	250	120	50	.21
3"	SC62-3	250	240	50	.21
3 1/2"	SC62-3.5	75	120	12	.25
3 1/2"	SC62-3.5	300	120	50	.25
3 1/2"	SC62-3.5	300	240	50	.25
3 1/2"	SC62-3.5	350	120	60	.25
4"	SC62-4	90	120	12	.29
4"	SC62-4	350	120	50	.29
4"	SC62-4	350	240	50	.29
5"	SC62-5	115	120	12	.35
5"	SC62-5	450	120	50	.35
5"	SC62-5	450	240	50	.35
6"	SC62-6	100	120	7	.44
6"	SC62-6	135	120	123	.44
6"	SC62-6	350	120	30	.44
6"	SC62-6	400	240	30	.44
6"	SC62-6	540	120	50	.44
6"	SC62-6	540	240	50	.44
7"	SC62-7	160	120	12	.57
7"	SC62-7	635	120	50	.57
7"	SC62-7	635	240	50	.57
8"	SC62-8	190	120	12	.55
8"	SC62-8	750	120	57	.55
8"	SC62-8	750	240	57	.55
9"	SC62-9	235	120	14	.63

Diameter: 3/4" (continued)

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
9"	SC62-9	950	120	55	.63
9"	SC62-9	950	240	55	.63
10"	SC62-10	250	120	53	.68
10"	SC62-10	1000	120	53	.68
10"	SC62-10	1000	240	53	.68
12"	SC62-12	300	120	12	.75
12"	SC62-12	1200	240	53	.75
18"	SC62-18	375	120	11	1.03
18"	SC62-18	1500	240	44	1.03
20"	SC62-20	375	120	10	1.25
20"	SC62-20	1500	240	40	1.25
24"	SC62-24	500	120	11	1.47
24"	SC62-24	625	120	14	1.47
24"	SC62-24	2000	240	44	1.47
24"	SC62-24	2500	240	65	1.47

Diameter: 3/4"

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
2 1/2"	SC75-2.5	60	120	12	.21
2 1/2"	SC75-2.5	230	120	50	.21
2 1/2"	SC75-2.5	230	240	50	.21
3 1/2"	SC75-3.5	90	120	12	.29
3 1/2"	SC75-3.5	350	120	50	.29
3 1/2"	SC75-3.5	350	240	50	.29
3 1/2"	SC75-3.5	350	120	60	.25
5"	SC75-5	125	120	12	.43
5"	SC75-5	500	120	50	.43
5"	SC75-5	500	240	50	.43
6"	SC75-6	160	120	12	.49
6"	SC75-6	650	120	50	.49
6"	SC75-6	650	240	50	.49
7"	SC75-7	190	120	12	.57
7"	SC75-7	760	120	50	.57
7"	SC75-7	760	240	50	.57
8"	SC75-8	220	120	12	.70
8"	SC75-8	750	120	40	.70
8"	SC75-8	885	120	50	.70
8"	SC75-8	885	240	50	.70
10"	SC75-10	275	120	11	.80
10"	SC75-10	1100	240	45	.80
12"	SC75-12	325	120	11	.92
12"	SC75-12	1300	240	45	.92
14"	SC75-14	315	120	10	1.03
14"	SC75-14	625	120	20	1.03
14"	SC75-14	1250	120	40	1.03
16"	SC75-16	450	120	12	1.14
16"	SC75-16	1800	240	49	1.14

CARTRIDGE



Cartridge Heaters

Low to Medium Watt Density

CARTRIDGE

▼ IN STOCK ITEMS (Continued) ▼

Diameter: $\frac{3}{4}$ " (continued)

Length	Cat.No.	Watts	Volts	Watt Density w/in. ²	Approx. Wght. (lbs.)
18"	SC75-18	500	120	12	1.25
18"	SC75-18	2000	240	49	1.25
20"	SC75-20	565	120	12	1.40
20"	SC75-20	2250	240	49	1.40
24"	SC75-24	595	120	11	1.50
24"	SC75-24	690	120	13	1.50
24"	SC75-24	2375	240	43	1.50
24"	SC75-24	2750	240	50	1.50
36"	SC75-36	625	120	8	2.05
36"	SC75-36	2500	240	36	2.05

▼ Manufactured Items ▼

Diameter: $\frac{15}{16}$ " (.936/.928)
Maximum Amperage: 25

1" (.999/.991)
25

1 $\frac{1}{4}$ " (1.249/1.241)
30

Sheath Length	Cat. No.	Min. Watts	Max. Watts
2"	SC93-2	50	280
2 $\frac{1}{2}$ "	SC93-2.5	50	375
3"	SC93-3	50	470
3 $\frac{1}{2}$ "	SC93-3.5	50	565
4"	SC93-4	50	660
4 $\frac{1}{2}$ "	SC93-4.5	50	755
5"	SC93-5	50	850
5 $\frac{1}{2}$ "	SC93-5.5	50	945
6"	SC93-6	50	1040
6 $\frac{1}{2}$ "	SC93-6.5	50	1135
7"	SC93-7	50	1230
7 $\frac{1}{2}$ "	SC93-7.5	50	1325
8"	SC93-8	50	1420
8 $\frac{1}{2}$ "	SC93-8.5	50	1515
9"	SC93-9	50	1610
9 $\frac{1}{2}$ "	SC93-9.5	50	1705
10"	SC93-10	50	1800
10 $\frac{1}{2}$ "	SC93-10.5	50	1895
11"	SC93-11	50	1990
11 $\frac{1}{2}$ "	SC93-11.5	50	2085
12"	SC93-12	50	2180

Cat. No.	Min. Watts	Max. Watts
SC1.0-2	50	280
SC1.0-2.5	50	375
SC1.0-3	50	470
SC1.0-3.5	50	565
SC1.0-4	50	660
SC1.0-4.5	50	755
SC1.0-5	50	850
SC1.0-5.5	50	945
SC1.0-6	50	1040
SC1.0-6.5	50	1135
SC1.0-7	50	1230
SC1.0-7.5	50	1325
SC1.0-8	50	1420
SC1.0-8.5	50	1515
SC1.0-9	50	1610
SC1.0-9.5	50	1705
SC1.0-10	50	1800
SC1.0-10.5	50	1895
SC1.0-11	50	1990
SC1.0-11.5	50	2085
SC1.0-12	50	2180

Cat. No.	Min. Watts	Max. Watts
SC1.2-2	100	350
SC1.2-2.5	100	470
SC1.2-3	100	590
SC1.2-3.5	100	710
SC1.2-4	100	830
SC1.2-4.5	100	950
SC1.2-5	100	1070
SC1.2-5.5	100	1190
SC1.2-6	100	1310
SC1.2-6.5	100	1430
SC1.2-7	100	1550
SC1.2-7.5	100	1670
SC1.2-8	100	1790
SC1.2-8.5	100	1910
SC1.2-9	100	2030
SC1.2-9.5	100	2150
SC1.2-10	100	2270
SC1.2-10.5	100	2390
SC1.2-11	100	2510
SC1.2-11.5	100	2630
SC1.2-12	100	2750

For longer lengths,
compute wattage at:

95 watts per linear $\frac{1}{2}$ "

95 watts per linear $\frac{1}{2}$ "

120 watts per linear $\frac{1}{2}$ "



Cartridge Heaters

Low to Medium Watt Density

CARTRIDGE

▼ Manufactured Items ▼						
Diameter:		1.90" (1.890/1.910)		2 3/8" (2.365/2.385)		
Maximum Amperage:		40		40		
Sheath Length	Cat. No.	Min. Watts	Max. Watts	Cat. No.	Min. Watts	Max. Watts
6"	SC1.9-6	500	1400			
7"	SC1.9-7	500	1700			
8"	SC1.9-8	500	1960	SC2.3-8	500	2300
9"	SC1.9-9	500	2240	SC2.3-9	500	2650
10"	SC1.9-10	500	2500	SC2.3-10	500	3000
12"	SC1.9-12	500	3100	SC2.3-12	500	3630
14"	SC1.9-14	500	3650	SC2.3-14	500	4300
16"	SC1.9-16	500	4200	SC2.3-16	500	5000
18"	SC1.9-18	500	4750	SC2.3-18	500	5600
20"	SC1.9-20	500	5300	SC2.3-20	500	6270
22"	SC1.9-22	500	5900	SC2.3-22	500	6930
24"	SC1.9-24	500	6450	SC2.3-24	500	7600
26"	SC1.9-26	500	7000	SC2.3-26	500	8250
28"	SC1.9-28	500	7550	SC2.3-28	500	8900
30"	SC1.9-30	500	8100	SC2.3-30	500	9570
32"	SC1.9-32	500	8700	SC2.3-32	500	10250
34"	SC1.9-34	500	9250	SC2.3-34	500	10900
36"	SC1.9-36	500	9800	SC2.3-36	500	11550
38"	SC1.9-38	500	10350	SC2.3-38	500	12200
40"	SC1.9-40	500	10900	SC2.3-40	500	12870
42"	SC1.9-42	500	11500	SC2.3-42	500	13530
44"	SC1.9-44	500	12000	SC2.3-44	500	14200
46"	SC1.9-46	500	12600	SC2.3-46	500	14850
48"	SC1.9-48	500	13200	SC2.3-48	500	15500

For longer lengths,
compute wattage at: **280 watts per linear 1"**
• Lengths longer than those listed may be ordered.

330 watts per linear 1"

Wattage

The maximum wattages listed are computed at 60 watts per square inch of heated surface. With proper fit in a heat sink, long life can be expected at this watt density. Consult factory for higher watt density applications. Lower watt density will result in longer life. Any wattage within standard limits may be ordered without affecting price.

Voltage

Standard voltages are either 120V or 240V (subject to limits above). Lower voltages are available.

Termination

All units up to 1/8" diameter, within published amperage limits, are manufactured with 6" (type SF1) leads, longer length leads are available. Standard insulation on 1/8" units is Teflon (200°C); Fiberglass (250°C) is standard on units 3/8" in diameter and larger. All units 1/8" and larger are manufactured with post terminals (type SF-3). Optional Type SF1 leads are available. Stock units supplied with 12" leads.

Tolerances

Wattage tolerances are held to +5%, -10% at rated voltage. Diameter is always .001" less, but not more than .009" less, than the nominal (fractional) heater diameter except for 1.90" and 2 3/8" diameters. This sizing is maintained so that all units are a slide fit into a standard reamed hole of the size ordered. Thermal action will expand the unit to a snug fit for best heat conduction. If close hole tolerances are not maintained, operating life may be drastically reduced. See specific heater size for exact tolerances. Length tolerances are ±2% with a 1/16" minimum. Consult factory for closer tolerances.

How to Order

After determining the wattage required and the line voltage available, determine the physical space available for heaters and the number of heaters required.

Review Stock lists for In-Stock Items.

Review Special Features, see page 22-27

Specify: catalog number, wattage, voltage, lead type, and special features, if required.

Example: SC62-8.5/600W240V/SF1-16/SF14-10