



SiC heater is a kind of non-metal high temperature electric heating element. It is made of selected high-purity green silicon carbide as raw material which is made into blank and silicon crystal under high temperature of 2400°C. SiC can usually use in the furnaces which temperature from 600°C-1600°C. It can be directly used in an air atmosphere without any protection atmosphere the long-term usage of life can reach over 3000 hours. Furthermore, it has a higher working temperature and chemical stability, easy installation and extensively used in the fields metallurgy, ceramics, glass, machinery, analysis test, semiconductor, science and so on. Silicon carbide is a ceramic material with relatively high electrical conductivity

when compared to other ceramics. Typical heating elements are rods or tubes, with diameters between 0.5 and 3 inches and lengths from 1 to 10 feet. They have metalized ends for electrical connections, and they often have both connections at one end, with two helical slots stop short of the other end, thus approximating a twisted hairpin form.

Application

SiC Heater is designed with specially formulated cold ends which significantly reduce the heat loss from the terminals concentrating the heat where needed in the furnace. Reduced heat losses result in lower power consumption saving energy costs also helping to reduce the furnace carbon footprint by lowering the greenhouse gas emission.

Metal Industries

- Powder metallurgy sintering
- Solution, molten cast holding, and aging processing of aluminum alloy
- Gas carburizing hardening of components for automotive, aircrafts, and machinery
- Carburizing, nitriding, and bright annealing for steel parts
- Hardening and tempering of various dies
- Brightness processing of die steel
- Tempering and soldering of machine components
- Carbon and sulphur analysis, tempering process for band steel
- Patenting processing for steel wire

Electronics Industry

- Firing of ceramic capacitors
- Sintering of alumina and steatite
- Firing of piezoelectric elements
- Firing of I.C. substrate and grazing
- Firing of ceramic resistors, varistor and thermistors
- Temporary sintering and calculations of soft and hard ferrite
- Heat treatment of shadow mask for colour TV, pure iron, permalloy, bright annealing of silicon steel plate, heat treatment of copper soldering, optical fibre, and compact discs

Porcelain Industry

- Fusion, retention, and gradual cooling of glass
- Surface treatment of glass
- Heat treatment of liquid crystal
- Lens matching
- Manufacturing of safety glass
- Manufacturing of ceramics and glass fibre
- Manufacturing of various fine ceramics
- Firing of quartz raw materials
- Firing of porcelain enamel
- Firing of ceramic ware
- Firing of grind stone
- Test for various refractory products

Chemical Industry

- Firing of fluorescent paint
- Firing of various pigments
- Firing of carriers and catalyst
- Heating of reactive gas
- Coal carbonization
- Firing of activated carbon
- Cleaning furnace and deodorizing furnace

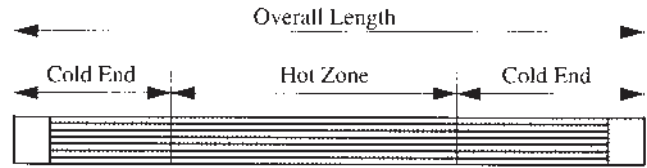
Others

- Various high temperature test furnaces
- Ignition of gas and kerosene appliances
- Ignition of various types of industrial equipment
- Various high temperature tests
- Local heating
- Ash melting surface

Materials

Silicon Carbide

Silicon Carbide Heating Elements

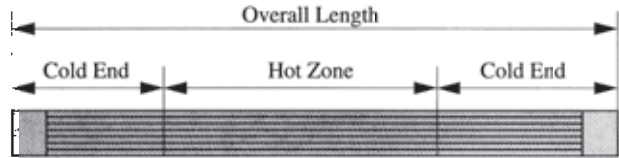


Our heating elements consist of fine, dense crystals. Because of their improved oxidation and heat resistance, as well as enhanced strength, products of this type are most widely used as economical heating elements applicable in a variety of atmospheres at high temperatures. Depending on the application, appropriate coats to resist oxidation and corrosion are used.

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 8 | 100 | 100 | 300 | 25 | 35 | 430 | 2.8 |
| | 150 | 100 | 350 | 38 | 50 | 650 | 3.8 |
| | 200 | 100 | 400 | 50 | 65 | 850 | 5.0 |
| | 250 | 100 | 450 | 63 | 80 | 1070 | 6.0 |
| | 100 | 150 | 400 | 31 | 30 | 530 | 1.7 |
| 10 | 150 | 150 | 450 | 47 | 45 | 800 | 2.5 |
| | 200 | 150 | 500 | 63 | 60 | 1080 | 3.4 |
| | 250 | 150 | 550 | 79 | 75 | 1340 | 4.2 |
| 12 | 150 | 150 | 450 | 56 | 40 | 900 | 1.8 |
| | 200 | 200 | 600 | 75 | 55 | 1200 | 2.5 |
| | 250 | 200 | 650 | 94 | 70 | 1500 | 3.3 |
| | 300 | 200 | 700 | 113 | 80 | 1800 | 3.6 |
| 14 | 200 | 200 | 600 | 88 | 50 | 1400 | 1.8 |
| | 250 | 250 | 750 | 110 | 60 | 1750 | 2.1 |
| | 300 | 250 | 800 | 132 | 70 | 2100 | 2.3 |
| | 350 | 200 | 750 | 154 | 85 | 2450 | 3.0 |
| | 400 | 250 | 900 | 176 | 100 | 2800 | 3.6 |
| 16 | 300 | 250 | 800 | 150 | 70 | 2400 | 2.0 |
| | 400 | 250 | 900 | 200 | 95 | 3260 | 2.8 |
| | 450 | 250 | 950 | 225 | 110 | 3600 | 3.3 |
| | 500 | 250 | 1000 | 250 | 120 | 4000 | 3.6 |
| | 600 | 250 | 1100 | 300 | 140 | 4800 | 4.1 |
| 20 | 300 | 300 | 900 | 188 | 65 | 3000 | 1.4 |
| | 400 | 300 | 1000 | 251 | 85 | 4000 | 1.8 |
| | 500 | 400 | 1300 | 314 | 110 | 5000 | 2.4 |
| | 700 | 400 | 1500 | 439 | 150 | 7000 | 3.2 |
| | 800 | 400 | 1600 | 502 | 170 | 8000 | 3.6 |
| | 900 | 300 | 1500 | 565 | 190 | 9000 | 4.0 |
| | 1000 | 300 | 1600 | 627 | 210 | 10000 | 4.4 |

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|-----|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms | |
| 25 | 300 | 300 | 900 | 236 | 55 | 3600 | 0.9 | |
| | 400 | 400 | 1200 | 314 | 75 | 4700 | 1.2 | |
| | 500 | 400 | 1300 | 392 | 90 | 5800 | 1.4 | |
| | 600 | 400 | 1400 | 470 | 110 | 7000 | 1.7 | |
| | 700 | 400 | 1500 | 550 | 130 | 8200 | 2.1 | |
| | 800 | 400 | 1600 | 627 | 150 | 9400 | 2.4 | |
| | 900 | 300 | 1500 | 705 | 170 | 10600 | 2.7 | |
| | 1000 | 300 | 1600 | 785 | 190 | 11800 | 3.1 | |
| | 1100 | 300 | 1700 | 862 | 200 | 13000 | 3.1 | |
| | 1200 | 300 | 1800 | 940 | 220 | 14000 | 3.5 | |
| | 1300 | 300 | 1900 | 1020 | 230 | 15300 | 3.5 | |
| | 1400 | 300 | 2000 | 1095 | 250 | 16500 | 3.8 | |
| | 30 | 300 | 300 | 900 | 280 | 50 | 4300 | 0.6 |
| | | 400 | 400 | 1200 | 380 | 65 | 5600 | 0.8 |
| 500 | | 400 | 1300 | 470 | 80 | 6900 | 0.9 | |
| 600 | | 400 | 1400 | 570 | 100 | 8700 | 1.1 | |
| 700 | | 400 | 1500 | 660 | 115 | 10000 | 1.3 | |
| 800 | | 400 | 1600 | 750 | 130 | 11300 | 1.5 | |
| 900 | | 400 | 1700 | 850 | 150 | 13000 | 1.7 | |
| 1000 | | 400 | 1800 | 940 | 160 | 14100 | 1.8 | |
| 1100 | | 400 | 1900 | 1035 | 180 | 15600 | 2.1 | |
| 1200 | | 400 | 2000 | 1130 | 200 | 17000 | 2.4 | |
| 1300 | | 400 | 2100 | 1220 | 210 | 18300 | 2.4 | |
| 1400 | | 400 | 2200 | 1320 | 230 | 19800 | 2.7 | |
| 1500 | | 400 | 2300 | 1410 | 240 | 21000 | 2.7 | |
| 1600 | | 300 | 2200 | 1500 | 260 | 22500 | 3.0 | |
| 1700 | | 300 | 2300 | 1600 | 280 | 24000 | 3.3 | |

- Nominal Loading Values are measured with an EREMA Heating Element surface temperature of 1000°C in open air, and resistance values have a manufacturing tolerance of ±15%.
- Products of other sizes than those listed above are also manufactured.
- Manufacturable dimensions Diameter 30mm Hot zone 1800mm overall length 2400mm



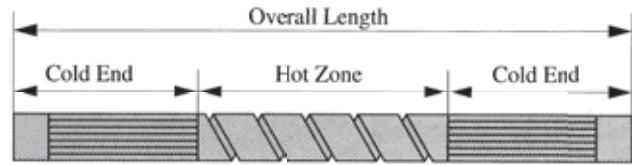
The heating section has features equivalent to those of D3- type products. Modification of terminal sections was made to decrease their resistance to make these products an energy saving type with low heat loss from terminals.

| Size | | | | | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | Hot Zone Surface Area | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 12 | 150 | 150 | 450 | 56 | 36 | 920 | 1.41 |
| | 200 | 200 | 600 | 75 | 49 | 1250 | 1.92 |
| | 250 | 200 | 650 | 94 | 60 | 1530 | 2.35 |
| | 300 | 200 | 700 | 113 | 71 | 1810 | 2.78 |
| 14 | 200 | 200 | 600 | 88 | 47 | 1480 | 1.49 |
| | 250 | 250 | 750 | 110 | 58 | 1830 | 1.84 |
| | 300 | 250 | 800 | 132 | 69 | 2170 | 2.19 |
| | 350 | 200 | 750 | 154 | 78 | 2460 | 2.48 |
| 16 | 400 | 250 | 900 | 176 | 90 | 2840 | 2.86 |
| | 300 | 250 | 800 | 150 | 64 | 2430 | 1.68 |
| | 350 | 350 | 1050 | 176 | 76 | 2890 | 2.00 |
| | 400 | 350 | 1100 | 200 | 86 | 3270 | 2.26 |
| 20 | 450 | 250 | 950 | 225 | 93 | 3530 | 2.45 |
| | 500 | 250 | 1000 | 250 | 103 | 3910 | 2.71 |
| | 600 | 250 | 1100 | 300 | 122 | 4640 | 3.21 |
| | 300 | 400 | 1100 | 188 | 61 | 3260 | 1.14 |
| 25 | 400 | 350 | 1100 | 251 | 78 | 4170 | 1.46 |
| | 500 | 400 | 1300 | 314 | 97 | 5190 | 1.81 |
| | 600 | 400 | 1400 | 376 | 114 | 6100 | 2.13 |
| | 700 | 400 | 1500 | 439 | 132 | 7060 | 2.47 |
| 30 | 800 | 300 | 1400 | 502 | 147 | 7870 | 2.75 |
| | 900 | 300 | 1500 | 565 | 165 | 8830 | 3.08 |
| | 300 | 300 | 900 | 236 | 52 | 3720 | 0.73 |
| | 400 | 450 | 1300 | 314 | 71 | 5080 | 0.99 |
| 35 | 500 | 400 | 1300 | 392 | 86 | 6150 | 1.20 |
| | 600 | 400 | 1400 | 470 | 102 | 7290 | 1.43 |
| | 700 | 400 | 1500 | 550 | 118 | 8440 | 1.65 |
| | 800 | 400 | 1600 | 627 | 134 | 9580 | 1.87 |
| 40 | 900 | 300 | 1500 | 705 | 148 | 10600 | 2.07 |
| | 1000 | 300 | 1600 | 785 | 164 | 11700 | 2.29 |
| | 400 | 300 | 1000 | 380 | 62 | 5800 | 0.66 |
| | 500 | 300 | 1100 | 470 | 77 | 7200 | 0.82 |
| 45 | 600 | 400 | 1400 | 570 | 93 | 8700 | 0.99 |
| | 700 | 450 | 1600 | 660 | 108 | 10100 | 1.16 |
| | 800 | 500 | 1800 | 750 | 124 | 11600 | 1.33 |
| | 900 | 400 | 1700 | 850 | 136 | 12700 | 1.45 |
| 50 | 1000 | 300 | 1600 | 940 | 149 | 13900 | 1.59 |
| | 1100 | 300 | 1700 | 1035 | 164 | 15300 | 1.75 |
| | 500 | 400 | 1300 | 710 | 61 | 10200 | 0.36 |
| | 600 | 400 | 1400 | 850 | 72 | 12100 | 0.43 |

| Size | | | | | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|-------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | Hot Zone Surface Area | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 35 | 400 | 400 | 1200 | 440 | 65 | 6960 | 0.61 |
| | 500 | 400 | 1300 | 550 | 80 | 8560 | 0.75 |
| | 600 | 400 | 1400 | 660 | 95 | 10200 | 0.89 |
| | 700 | 400 | 1500 | 770 | 110 | 11800 | 1.03 |
| | 800 | 400 | 1600 | 880 | 125 | 13400 | 1.17 |
| | 900 | 400 | 1700 | 990 | 140 | 15000 | 1.31 |
| | 1000 | 400 | 1800 | 1100 | 155 | 16600 | 1.45 |
| | 1100 | 400 | 1900 | 1210 | 170 | 18200 | 1.59 |
| | 1200 | 400 | 2000 | 1320 | 185 | 19800 | 1.73 |
| | 1300 | 400 | 2100 | 1430 | 200 | 21400 | 1.87 |
| | 1400 | 400 | 2200 | 1540 | 215 | 23000 | 2.01 |
| | 1500 | 400 | 2300 | 1650 | 230 | 24600 | 2.15 |
| 40 | 1600 | 300 | 2200 | 1760 | 243 | 26000 | 2.27 |
| | 1700 | 300 | 2300 | 1870 | 258 | 27600 | 2.41 |
| | 500 | 400 | 1300 | 628 | 75 | 9830 | 0.57 |
| | 600 | 400 | 1400 | 753 | 89 | 11700 | 0.68 |
| | 700 | 400 | 1500 | 880 | 103 | 13500 | 0.79 |
| | 800 | 400 | 1600 | 1005 | 116 | 15200 | 0.89 |
| | 900 | 400 | 1700 | 1130 | 130 | 17000 | 0.99 |
| | 1000 | 400 | 1800 | 1255 | 144 | 18900 | 1.10 |
| | 1100 | 400 | 1900 | 1381 | 158 | 20700 | 1.21 |
| | 1200 | 400 | 2000 | 1506 | 172 | 22500 | 1.31 |
| | 1300 | 400 | 2100 | 1630 | 186 | 24400 | 1.42 |
| | 1400 | 400 | 2200 | 1760 | 200 | 26200 | 1.53 |
| 45 | 1500 | 400 | 2300 | 1880 | 213 | 27900 | 1.63 |
| | 1600 | 300 | 2200 | 2010 | 226 | 29600 | 1.73 |
| | 1700 | 300 | 2300 | 2140 | 240 | 31400 | 1.83 |
| | 500 | 400 | 1300 | 710 | 61 | 10200 | 0.36 |
| | 600 | 400 | 1400 | 850 | 72 | 12100 | 0.43 |
| | 700 | 400 | 1500 | 990 | 84 | 14100 | 0.50 |
| | 800 | 400 | 1600 | 1130 | 95 | 16000 | 0.57 |
| | 900 | 400 | 1700 | 1270 | 106 | 17800 | 0.63 |
| | 1000 | 400 | 1800 | 1410 | 118 | 19800 | 0.70 |
| | 1200 | 400 | 2000 | 1700 | 140 | 23500 | 0.84 |
| | 1500 | 400 | 2300 | 2120 | 174 | 29200 | 1.04 |
| | 50 | 1800 | 400 | 2600 | 2540 | 208 | 34900 |
| 2000 | | 400 | 2800 | 2830 | 231 | 38800 | 1.37 |
| 1000 | | 400 | 1800 | 1570 | 123 | 22800 | 0.70 |
| 1500 | | 400 | 2300 | 2360 | 182 | 33800 | 1.00 |

- Nominal Loading Values are measured with an EREMA Heating Element surface temperature of 1000°C in open air, and resistance values have a manufacturing tolerance of ±15%
- Products of other sizes than those listed above are also manufactured.

- Manufacturable dimensions
E Types Diameter 30mm Hot zone 1800mm overall length 2400mm
F Types Diameter 50mm Hot zone 2000mm overall length 2800mm



Heating elements of this type have spiral grooves on their heating section and are given higher resistances to high temperature and corrosion than D-3, E and F type products so as to withstand severe operating environments. The inner part of products with larger diameters can be used as a tube type furnace.

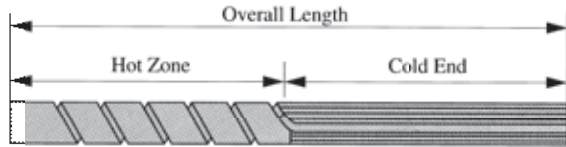
Terminal sections have been devised to provide low resistance, and have energy-saving properties as in E-type products.

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | Volts | Watts | Ohms |
| mm | mm | mm | mm | cm ² | | | |
| 14 | 200 | 200 | 600 | 88 | 58 | 1620 | 2.08 |
| | 200 | 250 | 700 | 88 | 59 | 1650 | 2.11 |
| | 250 | 200 | 650 | 110 | 70 | 1960 | 2.50 |
| | 250 | 250 | 750 | 110 | 71 | 1990 | 2.53 |
| | 300 | 250 | 800 | 132 | 84 | 2350 | 3.00 |
| 16 | 200 | 250 | 700 | 101 | 58 | 1970 | 1.71 |
| | 250 | 200 | 650 | 126 | 68 | 2310 | 2.00 |
| | 250 | 250 | 750 | 126 | 69 | 2350 | 2.03 |
| | 250 | 300 | 850 | 126 | 69 | 2350 | 2.03 |
| | 300 | 200 | 700 | 151 | 79 | 2690 | 2.32 |
| | 300 | 250 | 800 | 151 | 80 | 2720 | 2.35 |
| | 300 | 300 | 900 | 151 | 80 | 2720 | 2.35 |
| | 350 | 250 | 850 | 176 | 93 | 3160 | 2.74 |
| 20 | 300 | 400 | 1100 | 188 | 82 | 3360 | 2.00 |
| | 350 | 400 | 1150 | 220 | 94 | 3850 | 2.30 |
| | 400 | 400 | 1200 | 251 | 106 | 4350 | 2.58 |
| | 450 | 400 | 1250 | 283 | 119 | 4880 | 2.90 |
| 25 | 300 | 400 | 1100 | 236 | 82 | 4020 | 1.67 |
| | 300 | 500 | 1300 | 236 | 86 | 4210 | 1.76 |
| | 400 | 400 | 1200 | 314 | 108 | 5290 | 2.20 |
| | 500 | 400 | 1300 | 393 | 133 | 6520 | 2.71 |

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | Volts | Watts | Ohms |
| mm | mm | mm | mm | cm ² | | | |
| 30 | 300 | 400 | 1100 | 283 | 77 | 4850 | 1.22 |
| | 300 | 500 | 1300 | 283 | 80 | 5040 | 1.27 |
| | 400 | 400 | 1200 | 377 | 101 | 6360 | 1.60 |
| | 400 | 500 | 1400 | 377 | 104 | 6550 | 1.65 |
| | 500 | 400 | 1300 | 471 | 125 | 7880 | 1.98 |
| | 600 | 400 | 1400 | 565 | 149 | 9390 | 2.36 |
| 35 | 400 | 400 | 1200 | 440 | 99 | 7520 | 1.30 |
| | 400 | 500 | 1400 | 440 | 102 | 7750 | 1.34 |
| | 500 | 400 | 1300 | 550 | 123 | 9350 | 1.62 |
| | 500 | 500 | 1500 | 550 | 125 | 9500 | 1.64 |
| | 600 | 400 | 1400 | 660 | 146 | 11100 | 1.92 |
| | 700 | 400 | 1500 | 770 | 169 | 12840 | 2.22 |
| 40 | 500 | 400 | 1300 | 628 | 113 | 10620 | 1.20 |
| | 500 | 500 | 1500 | 628 | 117 | 10760 | 1.27 |
| | 600 | 400 | 1400 | 754 | 135 | 12690 | 1.44 |
| | 600 | 450 | 1500 | 754 | 139 | 12790 | 1.51 |
| 45 | 700 | 450 | 1600 | 990 | 147 | 16610 | 1.30 |
| | 800 | 400 | 1600 | 1131 | 168 | 18980 | 1.49 |

- Nominal Loading Values are measured with an EREMA Heating Element surface temperature of 1000°C in open air, and resistance values have a manufacturing tolerance of ± 20%
- Products of other sizes than those listed above are also manufactured.
- Manufacturable dimensions Diameter 45mm Hot zone 800mm overall length 1600mm

SGR - TYPE



As in SG-type elements, spiral grooves are provided on the heating section with a terminal section on one side only. One side connection of the terminal allows for easier operation and facilitates construction of furnaces with energy saving structures. SG and SGR-type products are recommended for applications involving severe operating conditions including high furnace temperature ranges exceeding 1400°C .

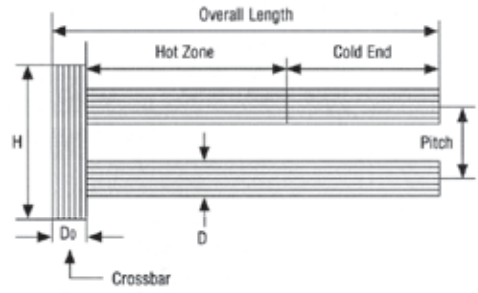
| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 16 | 100 | 150 | 250 | 50 | 61 | 970 | 3.96 |
| | 100 | 250 | 350 | 50 | 77 | 1190 | 4.98 |
| | 150 | 150 | 300 | 75 | 84 | 1290 | 5.47 |
| | 150 | 250 | 400 | 75 | 99 | 1520 | 6.45 |
| | 200 | 150 | 350 | 101 | 106 | 1630 | 6.89 |
| | 200 | 250 | 450 | 101 | 121 | 1860 | 7.87 |
| | 250 | 150 | 400 | 126 | 128 | 1970 | 8.32 |
| | 250 | 300 | 550 | 126 | 151 | 2330 | 9.79 |
| 20 | 100 | 150 | 250 | 63 | 59 | 1130 | 3.08 |
| | 100 | 250 | 350 | 63 | 72 | 1380 | 3.76 |
| | 150 | 150 | 300 | 94 | 81 | 1560 | 4.21 |
| | 150 | 250 | 400 | 94 | 94 | 1800 | 4.91 |
| | 200 | 150 | 350 | 126 | 102 | 1960 | 5.31 |
| | 200 | 250 | 450 | 126 | 116 | 2230 | 6.03 |
| | 250 | 150 | 400 | 157 | 125 | 2400 | 6.51 |
| | 250 | 250 | 500 | 157 | 138 | 2650 | 7.19 |
| | 300 | 200 | 500 | 188 | 153 | 2940 | 7.96 |
| | 300 | 250 | 550 | 188 | 160 | 3070 | 8.34 |
| 25 | 150 | 200 | 350 | 118 | 87 | 1990 | 3.80 |
| | 150 | 300 | 450 | 118 | 98 | 2240 | 4.29 |
| | 200 | 200 | 400 | 157 | 110 | 2520 | 4.80 |
| | 200 | 300 | 500 | 157 | 122 | 2790 | 5.33 |
| | 250 | 200 | 450 | 196 | 134 | 3070 | 5.85 |
| | 250 | 300 | 550 | 196 | 145 | 3320 | 6.33 |
| | 300 | 300 | 600 | 236 | 168 | 3850 | 7.33 |
| | 300 | 400 | 700 | 236 | 179 | 4100 | 7.81 |
| | 350 | 300 | 650 | 275 | 191 | 4370 | 8.35 |
| | 350 | 350 | 700 | 275 | 197 | 4510 | 8.61 |
| 30 | 200 | 200 | 400 | 188 | 90 | 2800 | 2.91 |
| | 200 | 300 | 500 | 188 | 91 | 2830 | 2.94 |
| | 250 | 200 | 450 | 236 | 111 | 3430 | 3.57 |
| | 250 | 300 | 550 | 236 | 112 | 3460 | 3.60 |
| | 300 | 300 | 600 | 283 | 132 | 4090 | 4.26 |
| | 300 | 400 | 700 | 283 | 133 | 4120 | 4.29 |

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | | | |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 30 | 350 | 300 | 650 | 330 | 153 | 4730 | 4.92 |
| | 350 | 400 | 750 | 330 | 153 | 4760 | 4.95 |
| | 400 | 300 | 700 | 377 | 173 | 5360 | 5.58 |
| | 400 | 400 | 800 | 377 | 174 | 5390 | 5.61 |
| | 450 | 300 | 750 | 424 | 193 | 6000 | 6.24 |
| | 450 | 350 | 800 | 424 | 194 | 6010 | 6.25 |
| | 500 | 300 | 800 | 471 | 214 | 6630 | 6.90 |
| | 35 | 200 | 200 | 400 | 220 | 89 | 3250 |
| 200 | | 300 | 500 | 220 | 90 | 3280 | 2.45 |
| 250 | | 200 | 450 | 275 | 109 | 3990 | 2.98 |
| 250 | | 300 | 550 | 275 | 110 | 4020 | 3.00 |
| 300 | | 300 | 600 | 330 | 130 | 4760 | 3.56 |
| 300 | | 400 | 700 | 330 | 131 | 4790 | 3.58 |
| 350 | | 300 | 650 | 385 | 150 | 5510 | 4.11 |
| 350 | | 400 | 750 | 385 | 151 | 5540 | 4.13 |
| 400 | | 300 | 700 | 440 | 171 | 6250 | 4.67 |
| 400 | | 400 | 800 | 440 | 172 | 6280 | 4.69 |
| 450 | | 300 | 750 | 495 | 191 | 6990 | 5.22 |
| 450 | | 350 | 800 | 495 | 191 | 6010 | 5.23 |
| 500 | 300 | 800 | 550 | 211 | 7740 | 5.78 | |
| 40 | 200 | 200 | 400 | 251 | 86 | 3670 | 2.03 |
| | 200 | 300 | 500 | 251 | 87 | 3700 | 2.05 |
| | 250 | 200 | 450 | 314 | 106 | 4520 | 2.50 |
| | 250 | 300 | 550 | 314 | 107 | 4540 | 2.52 |
| | 300 | 300 | 600 | 377 | 127 | 5390 | 2.98 |
| | 300 | 400 | 700 | 377 | 127 | 5420 | 3.00 |
| | 350 | 300 | 650 | 440 | 147 | 6230 | 3.45 |
| | 350 | 400 | 750 | 440 | 147 | 6260 | 3.47 |
| | 400 | 300 | 700 | 502 | 167 | 7080 | 3.92 |
| | 400 | 400 | 800 | 502 | 167 | 7110 | 3.93 |
| | 450 | 300 | 750 | 565 | 186 | 7920 | 4.39 |
| | 450 | 350 | 800 | 565 | 187 | 7940 | 4.39 |
| 500 | 300 | 800 | 628 | 206 | 8770 | 4.85 | |

- Nominal Loading Values are measured with an EREMA Heating Element surface temperature of 1000°C in open air, and resistance values have a manufacturing tolerance of ± 20%

- Products of other sizes than those listed above are also manufactured.
- Manufacturable dimensions Diameter 55mm Hot zone 700mm overall length 1100mm

U - TYPE



This Type consists of two EREMA E (F) elements combined to form a U-shaped heating element. This is a single phase heating element with two terminal sections in one direction. With this product, furnaces of an energy saving construction can be built. Pin holes are optional.

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|-------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | cm ² | Volts | Watts |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 16 | 300 | 300 | 40 | 301 | 121 | 4600 | 3.18 |
| | 400 | 300 | | 402 | 160 | 6080 | 4.21 |
| | 400 | 400 | | 402 | 163 | 6190 | 4.29 |
| | 500 | 300 | | 502 | 200 | 7600 | 5.26 |
| 20 | 300 | 400 | 50 | 377 | 112 | 5990 | 2.09 |
| | 350 | 400 | | 440 | 130 | 6960 | 2.43 |
| | 400 | 400 | | 502 | 147 | 7870 | 2.75 |
| | 450 | 350 | | 565 | 167 | 8770 | 3.07 |
| | 500 | 400 | | 628 | 183 | 9790 | 3.42 |
| | 500 | 500 | | 628 | 185 | 9900 | 3.46 |
| | 600 | 400 | | 754 | 218 | 11700 | 4.07 |
| | 600 | 500 | | 754 | 220 | 11800 | 4.11 |
| | 700 | 400 | | 879 | 253 | 13500 | 4.73 |
| | 700 | 500 | | 879 | 256 | 13700 | 4.79 |
| | 800 | 400 | | 1005 | 289 | 15500 | 5.40 |
| | 800 | 500 | | 1005 | 291 | 15600 | 5.44 |
| 25 | 400 | 400 | 60 | 628 | 131 | 9370 | 1.83 |
| | 400 | 500 | | 628 | 133 | 9510 | 1.86 |
| | 450 | 400 | | 707 | 147 | 10500 | 2.06 |
| | 500 | 400 | | 785 | 163 | 11700 | 2.28 |
| | 500 | 500 | | 785 | 165 | 11800 | 2.31 |
| | 550 | 400 | | 864 | 179 | 12800 | 2.50 |
| | 600 | 400 | | 942 | 194 | 13900 | 2.71 |
| | 600 | 500 | | 942 | 196 | 14000 | 2.74 |
| | 700 | 400 | | 1099 | 226 | 16200 | 3.16 |
| | 700 | 500 | | 1099 | 228 | 16300 | 3.19 |
| | 800 | 400 | | 1256 | 258 | 18500 | 3.61 |
| | 800 | 500 | | 1256 | 260 | 18600 | 3.64 |

| Size | | | | Hot Zone Surface Area | Nominal Loading Values | | |
|-----------|-----------------|-----------------|----------------|-----------------------|------------------------|-------|-------|
| Dia meter | Hot Zone Length | Cold End Length | Overall Length | | cm ² | Volts | Watts |
| mm | mm | mm | mm | cm ² | Volts | Watts | Ohms |
| 30 | 500 | 400 | 70 | 942 | 148 | 13800 | 1.58 |
| | 500 | 500 | | 942 | 149 | 13900 | 1.59 |
| | 600 | 400 | | 1130 | 176 | 16500 | 1.88 |
| | 600 | 500 | | 1130 | 178 | 16600 | 1.90 |
| | 700 | 400 | | 1318 | 205 | 19200 | 2.19 |
| | 700 | 500 | | 1318 | 207 | 19400 | 2.21 |
| | 800 | 400 | | 1508 | 234 | 21900 | 2.50 |
| | 800 | 500 | | 1508 | 236 | 22100 | 2.52 |
| | 900 | 400 | | 1695 | 263 | 24600 | 2.81 |
| | 900 | 500 | | 1695 | 265 | 24800 | 2.83 |
| 35 | 600 | 400 | 80 | 1319 | 180 | 19100 | 1.68 |
| | 600 | 500 | | 1319 | 182 | 19400 | 1.70 |
| | 700 | 400 | | 1539 | 210 | 22200 | 1.96 |
| | 700 | 500 | | 1539 | 212 | 22400 | 1.98 |
| | 800 | 400 | | 1758 | 240 | 25400 | 2.24 |
| | 800 | 500 | | 1758 | 241 | 25600 | 2.26 |
| | 900 | 400 | | 1978 | 270 | 28600 | 2.52 |
| | 900 | 500 | | 1978 | 271 | 28800 | 2.54 |
| | 1000 | 500 | | 2198 | 301 | 32000 | 2.82 |

Crossbar Size (mm)

| D | 16 | 20 | 25 | 30 | 35 |
|----|----|----|-----|-----|-----|
| Do | 25 | 30 | 35 | 40 | 45 |
| H | 76 | 90 | 110 | 125 | 140 |

Notes:

- The overall length of U-type heating elements consists of the indicated dimension of U-type products (cold end length plus hot zone length) and the tip length (Do).
- The maximum width of U-type heating elements is equivalent to the dimension of H.

- Nominal Loading Values are measured with an EREMA Heating Element surface temperature of 1000°C in open air, and resistance values have a manufacturing tolerance of ± 15%
- Products of other sizes than those listed above are also manufactured.
- Manufacturable dimensions Diameter 40mm Hot zone 1500mm overall length 1800mm
- In addition, W-type products are manufactured to be used in float glass manufacturing furnaces.
- Products with special shapes are manufactured to meet the requirements of size, application and operating conditions.