

ЕЛЕКТРОЛУКС Electrolux

Cartridge Heaters: Square and Rectangular

Low to Medium Watt Density



Features

- 1 The Electrolux Macedonia Square and Rectangular Cartridge Heater is designed to distribute maximum heat within a desired area. Because they are completely enclosed, square units will furnish more usable heat for a given wattage than a comparable strip heater attached to the exterior of a mold, platen, or other equipment.
- 1 The units are inserted in a milled slot, permitting greater lengths than would be feasible with a drilled or reamed hole. Close dimensional tolerances are held to permit intimate fit for best heat transfer to surrounding medium.
- 1 Heating elements arranged just beneath outside surface for maximum heat transfer, minimum wire temperature, and faster heating.
- 1 Maximum surface temperatures up to 1200°F. Designations are etched on the sheath to preserve accurate shape.
- 1 Long, trouble free service.
- 1 Made in U.S.A.

Construction



1. Sealed end.
2. Mica.
3. Series 300 stainless steel sheath for non-oxidizing, stable service in cavities machined for them.
4. Element wire situated in close proximity to outside surface for maximum heat transfer, minimum wire temperature, and faster heating.
5. Magnesium oxide packing.
6. Ceramic element support.
7. Teflon insulated leads: 1/4" square.
Fiberglass insulated leads: 3/8" to 1/2" square, 1/4" x 5/8" and 1/4" x 1" rectangular.

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Square

| Size: 1/8" x 1/8" (.124/.210 x .124/.120) | | | | 3/16" x 3/16" (.186/.183 x .186/.183) | | |
|--|---------|------------|------------|---------------------------------------|------------|------------|
| Maximum Amperage: 1 Not UL/CSA | | | | 3.5 | | |
| Sheath Length | Cat.No. | Min. Watts | Max. Watts | Cat.No. | Min. Watts | Max. Watts |
| 1" | SS12-1 | 10 | 15 | SS18-1 | 10 | 20 |
| 2" | SS12-2 | 10 | 35 | SS18-2 | 10 | 45 |
| 3" | SS12-3 | 10 | 55 | SS18-3 | 10 | 70 |
| 4" | SS12-4 | 10 | 75 | SS18-4 | 10 | 105 |
| 5" | SS12-5 | 10 | 95 | SS18-5 | 10 | 130 |
| 6" | SS12-6 | 10 | 115 | SS18-6 | 10 | 160 |
| 7" | SS12-7 | 10 | 135 | SS18-7 | 10 | 195 |
| 8" | SS12-8 | 10 | 155 | SS18-8 | 10 | 230 |
| 9" | SS12-9 | 10 | 175 | SS18-9 | 10 | 250 |
| 10" | SS12-10 | 10 | 195 | SS18-10 | 10 | 270 |
| 11" | SS12-11 | 10 | 215 | SS18-11 | 10 | 295 |
| 12" | SS12-12 | 10 | 235 | SS18-12 | 10 | 320 |
| For longer lengths, compute wattage at: 10 watts per linear 1/2" | | | | 12 watts per linear 1/2" | | |

Square

| Size: 1/4" (.249/.245 x .249/.245) | | | | 3/8" (.374/.370 x .374/.370) | | | 1/2" (.499/.495 x .499/.495) | | |
|--|---------|------------|------------|------------------------------|------------|------------|------------------------------|------------|------------|
| Maximum Amperage: 3.5 | | | | 6 | | | 10 | | |
| Sheath Length | Cat.No. | Min. Watts | Max. Watts | Cat.No. | Min. Watts | Max. Watts | Cat.No. | Min. Watts | Max. Watts |
| 2" | SS25-2 | 10 | 60 | SS37-2 | 10 | 90 | SS50-2 | 10 | 130 |
| 3" | SS25-3 | 10 | 100 | SS37-3 | 10 | 150 | SS50-3 | 10 | 210 |
| 4" | SS25-4 | 10 | 150 | SS37-4 | 10 | 210 | SS50-4 | 10 | 300 |
| 6" | SS25-6 | 10 | 225 | SS37-6 | 10 | 330 | SS50-6 | 10 | 500 |
| 8" | SS25-8 | 10 | 350 | SS37-8 | 10 | 450 | SS50-8 | 10 | 700 |
| 10" | SS25-10 | 10 | 450 | SS37-10 | 10 | 570 | SS50-10 | 10 | 850 |
| 12" | SS25-12 | 10 | 550 | SS37-12 | 10 | 690 | SS50-12 | 10 | 1000 |
| 16" | SS25-16 | 10 | 750 | SS37-16 | 10 | 930 | SS50-16 | 10 | 1280 |
| 18" | SS25-18 | 10 | 840 | SS37-18 | 10 | 1050 | SS50-18 | 10 | 1440 |
| 24" | SS25-24 | 10 | 840 | SS37-24 | 10 | 1410 | SS50-24 | 10 | 1920 |
| For longer lengths, compute wattage at: 840 watts max. | | | | 30 watts per linear 1/2" | | | 40 watts per linear 1/2" | | |

Wattage

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Minimum Wattage

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

| Size: | 1/8" Square | | | | 3/16" Square | | | |
|--------|-------------|------|------|------|--------------|------|------|------|
| Length | 30v | 60v | 120v | 230v | 30v | 60v | 120v | 230v |
| 1" | .6w | 2.5w | 10w | NA | .8w | 3w | 12w | NA |
| 1 1/2" | .6w | 2.5w | 10w | NA | .5w | 2w | 8w | 30w |
| 2" | .5w | 2w | 8w | 27w | .4w | 1.5w | 6w | 22w |

NA - Not Available

Voltage

Standard voltage is either 120V or 240V. Other voltages are available.

Termination

All units within published amperage limits, are manufactured with 6" (type SF1) leads; longer length leads are available. Standard insulation on 1/4" square units is Teflon (200°C). Fiberglass (250°C) is standard on all other sizes.

Rectangular

Lengths between or longer than those listed may be ordered.

| Size: | 1/8" x 1/4" (.124/.120 x .249/.245) | | | | 1/8" x 3/8" (.124/.120 x .374/.370) | | |
|--|-------------------------------------|------------|------------|--------------------------|-------------------------------------|------------|--|
| Maximum Amperage: | 2 | | | | 3.5 | | |
| Sheath Length | Cat.No. | Min. Watts | Max. Watts | Cat.No. | Min. Watts | Max. Watts | |
| 1" | SR14-1 | 10 | 20 | SR13-1 | 10 | 35 | |
| 2" | SR14-2 | 10 | 55 | SR13-2 | 10 | 90 | |
| 3" | SR14-3 | 10 | 85 | SR13-3 | 10 | 140 | |
| 4" | SR14-4 | 10 | 110 | SR13-4 | 10 | 190 | |
| 5" | SR14-5 | 10 | 135 | SR13-5 | 10 | 240 | |
| 6" | SR14-6 | 10 | 170 | SR13-6 | 10 | 290 | |
| 7" | SR14-7 | 10 | 200 | SR13-7 | 10 | 340 | |
| 8" | SR14-8 | 10 | 230 | SR13-8 | 10 | 390 | |
| 9" | SR14-9 | 10 | 260 | SR13-9 | 10 | 440 | |
| 10" | SR14-10 | 10 | 290 | SR13-10 | 10 | 490 | |
| 11" | SR14-11 | 10 | 320 | SR13-11 | 10 | 540 | |
| 12" | SR14-12 | 10 | 350 | SR13-12 | 10 | 590 | |
| For longer lengths, compute wattage at: 15 watts per linear 1/2" | | | | 25 watts per linear 1/2" | | | |

Rectangular

Lengths between or longer than those listed may be ordered.

