

Strip Heaters

375 Strip

Aptly named for its 0.375 inch (9.5 mm) thickness, the Watlow 375 strip is a rugged heater capable of both high temperatures and high watt densities.

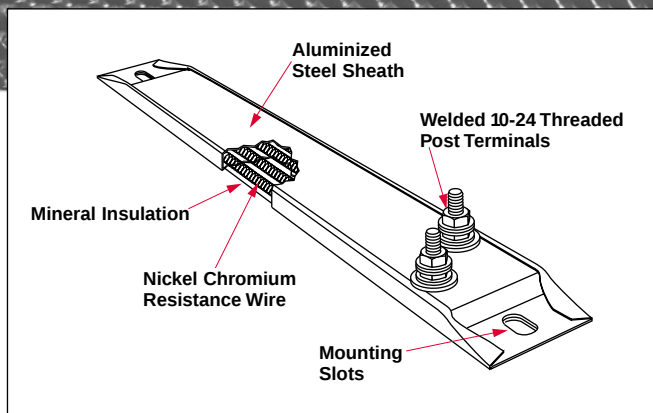
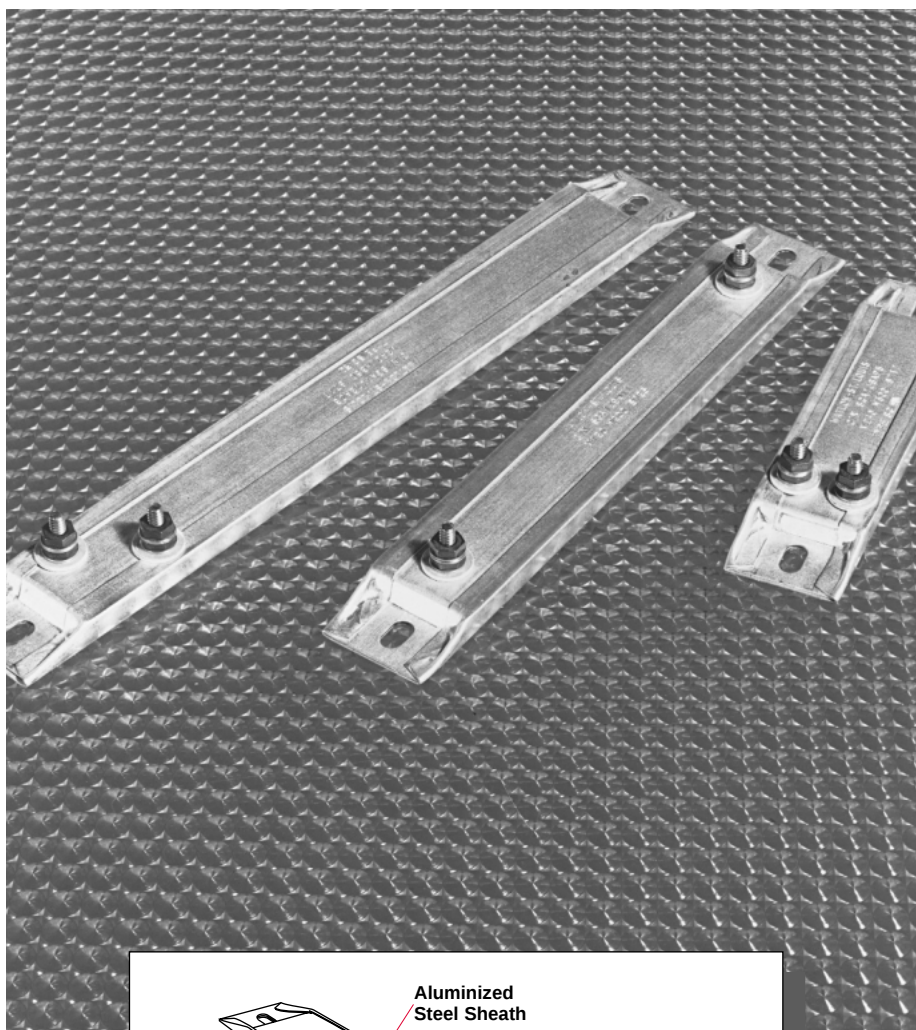
Its ruggedness comes from the design and use of choice materials. Watlow begins construction by accurately placing a coiled, nickel-chrome element wire in the center of the heater. The element wire is then embedded in MgO-based insulation ... compacted into a solid mass that results in excellent heat conductivity and high dielectric strength. Finally, the heater is enclosed in aluminized steel sheathing.

Performance Capabilities

- Aluminized steel sheath temperatures to 1100°F (595°C)
- Stainless steel sheath temperatures to 1200°F (650°C)
- Watt densities to 130 W/in² (20.2 W/cm²)
- UL® approved to 240V~(ac) (File No. E52951)
- CSA approved to 600V~(ac) (File No. LR7392)

Features and Benefits

- **Nickel-chrome element wire** is centered in the heater to uniformly heat the strip.
- **Aluminized steel sheath** operates at higher temperatures and resists corrosion better than iron-sheathed heaters.
- **Optional 430 stainless steel sheath** is available for applications where temperatures reach 1200°F (650°C).
- **Post terminals, welded to the element wire**, produce strong, trouble-free connections.
- **Rigid ¾ inch (9.5 mm) thick design** enables the 375 strip heater to fit into many existing applications.



- **Available dimensions** are 1½ inches (38 mm) wide, and 5½ (140 mm) to 48 inches (1220 mm) long.
- **Next day shipment is available on 106 in-stock models** in popular sizes and ratings.

Applications

- Food warming
- Freeze and moisture protection
- Tank and platen heating
- Packaging
- Dies and mold heating
- Autoclaves
- Ovens

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Applications and Technical Data

Calculating Watt Density

Use the *Maximum Allowable Watt Density* graphs and formulas to ensure that the allowable watt density for the heater will not be exceeded in your application.

Watt density is calculated for one side of the heater only.

Formulas:

$$\text{Watt Density} = \frac{\text{Wattage}}{\text{Heated Area}}$$

Heated Area

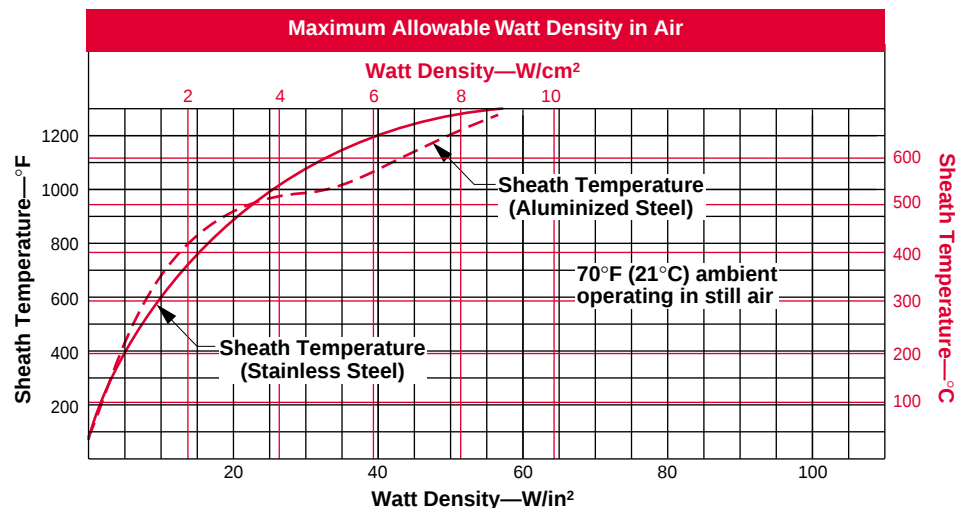
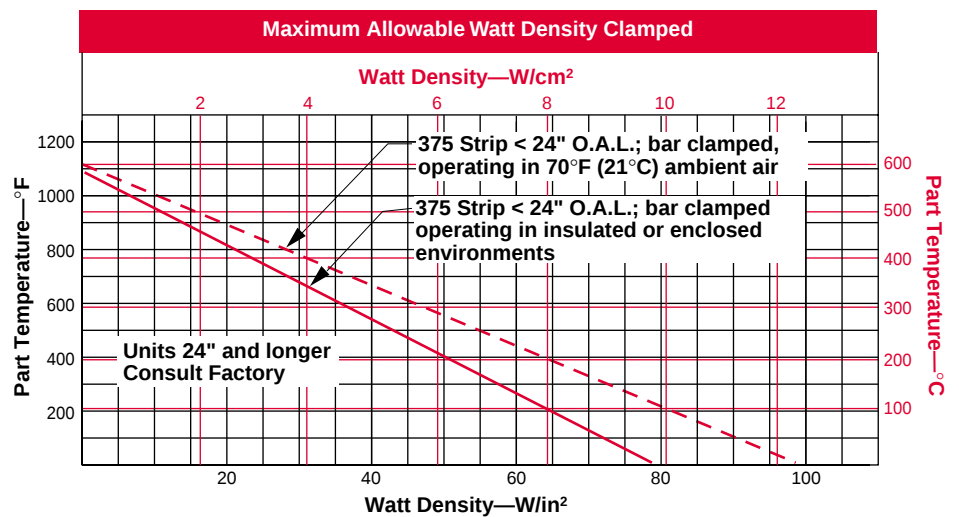
$$\begin{aligned} \text{(Offset Terminals)} &= [\text{Overall Length (A)} \times 1.5 \text{ in}] - 6 \text{ in}^2 \\ &= [\text{Overall Length (A)} \times 38.1 \text{ mm}] - 38.7 \text{ cm}^2 \end{aligned}$$

Heated Area

$$\begin{aligned} \text{(Parallel Terminals)} &= [\text{Overall Length (A)} \times 1.5 \text{ in}] - 4.7 \text{ in}^2 \\ &= [\text{Overall Length (A)} \times 38.1 \text{ mm}] - 30.3 \text{ cm}^2 \end{aligned}$$

Heated Area

$$\begin{aligned} \text{(One-on-One Terminals)} &= [\text{Overall Length (A)} \times 1.5 \text{ in}] - 6.4 \text{ in}^2 \\ &= [\text{Overall Length (A)} \times 38.1 \text{ mm}] - 41.3 \text{ cm}^2 \end{aligned}$$



Strip Heaters

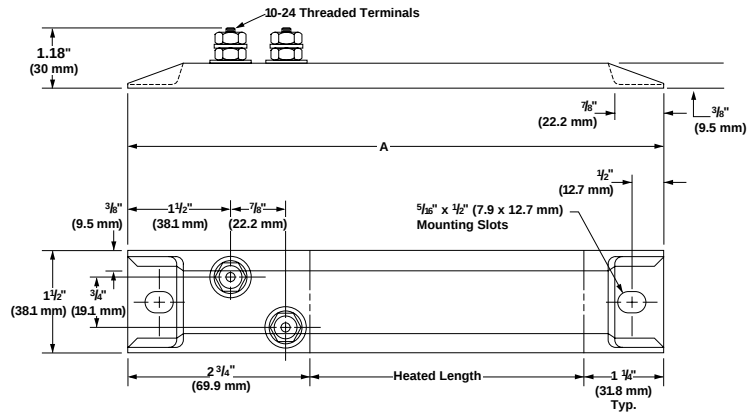
375 Strip

Termination Options

* Tab removal available from stock or manufactured.

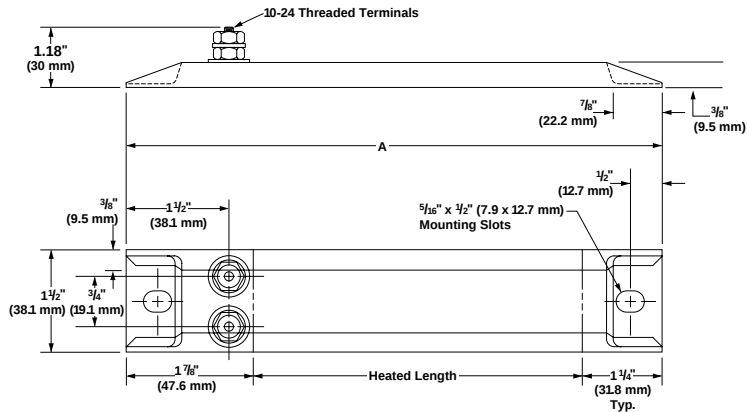
Offset Terminals*

Two 10-24 threaded post terminals are offset from each other on the same end.



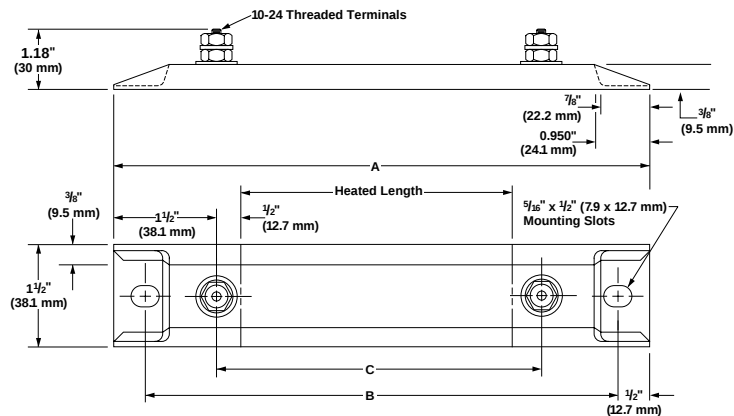
Parallel Terminals*

Two 10-24 threaded post terminals are used; both terminals on one end.



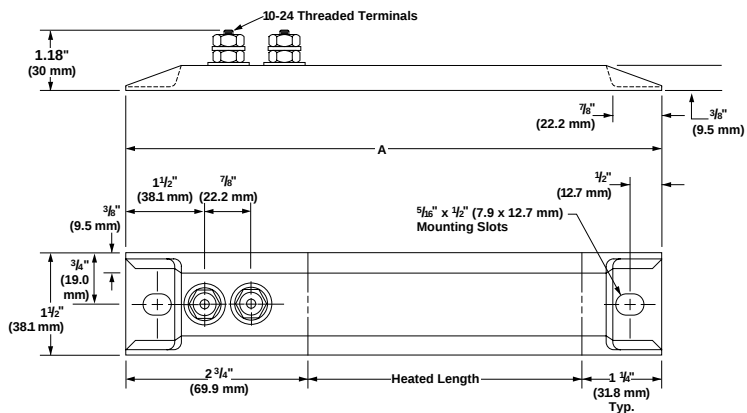
One-on-One Terminals*

Two 10-24 threaded post terminals are placed one on each end.



In-Line Terminals*

Two 10-24 threaded post terminals are in-line with each other on the same end.



Strip Heaters

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Termination Options

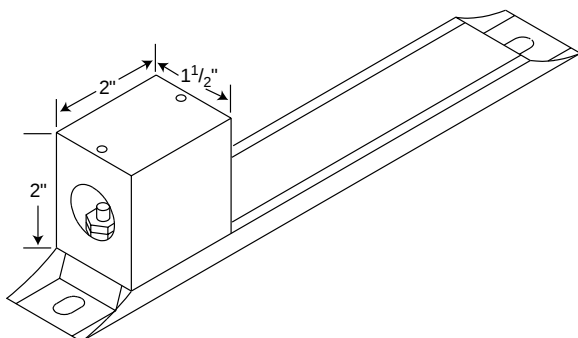
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Variations

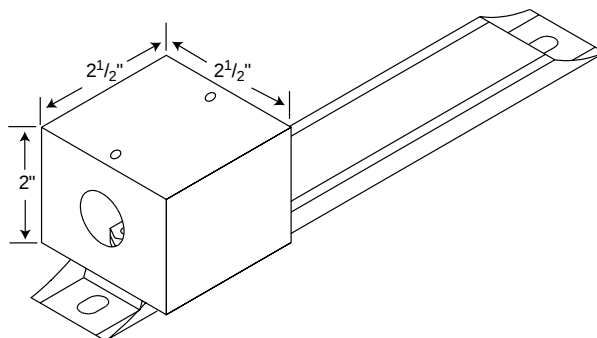
Metallic Terminal Boxes

Metallic terminal boxes are available on offset terminals from stock. Terminal boxes act as a safety feature by covering the terminals.

Conduit may be attached to the box through $\frac{7}{8}$ inch (22 mm) diameter holes in the ends of the box. To order, specify terminal box.



Available in in-line terminals only.

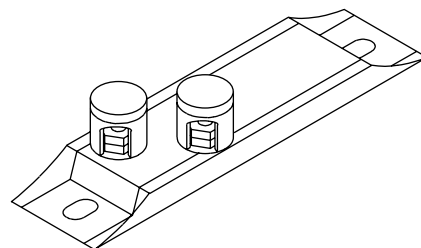


Available on offset terminals from stock and manufactured.

Accessories

Ceramic Terminal Covers

A convenient and economic way to insulate post terminals. Sized for standard length posts. 10-24 screw thread size. These are supplied as an accessory item and shipped separately. Specify **Z-4918** and quantity.



How to Order

To order your **stock** 375 strip heater, specify:

- Quantity
- Watlow code number
- Removal of mounting tabs, if desired

If stock units do not meet application needs, Watlow can manufacture 375 strip heaters to special requirements.

For **made-to-order** units, please specify, in addition to above information:

- Width
- Heater length, including mounting tabs
- Terminal type (offset, parallel or one-on-one)

Availability

Stock: Next day shipment

Made-to-Order: Please consult your Watlow sales engineer or authorized distributor.

Note: $\frac{5}{16}$ inch (7.9 mm) x $\frac{1}{2}$ inch (12.7 mm) mounting slots are supplied on all 375 strip heaters. Tabs can be removed upon request. Also, note Watlow code number specifies that the 375 strip heater comes with an aluminized steel sheath. If you require a special sheath material, such as stainless steel, please consult your sales engineer or authorized distributor for material availability.

① Chromalox® and Wellman® part numbers are used as a cross reference to help you select the equivalent Watlow code number. Chromalox® sizes 27 inches and longer, and all Wellman® sizes, will have mounting slot center to center distances $\frac{1}{8}$ inch less than Watlow spacing.

Strip Heaters

F.O.B.: St. Louis, Missouri

375 Strip

Width in (mm)	Length in (mm)	Term.	Volts	Power (Watts)	Watt Density W/in ² (W/cm ²)	Approx. Net Wt. lbs (kg)	Avail.	Code No.	Chromolox® Code No. ①		Wellman® Code No. ②	
									Rust Resist. Iron Sheath	Chrome Stl. Sheath	Aluminized Steel Sheath	Chrome Stl. Sheath
1½ (38.1)	5½ (139.7)	Parallel	120	125	35 (5.4)	0.4 (0.18)	Stk	SGA1J5JP1	PT-512	—	—	—
	5½ (139.7)	Parallel	120	250	70 (10.8)	0.4 (0.18)	Stk	SGA1J5JP2	—	PT-502	—	—
	6 (153.0)	Parallel	120	150	35 (5.4)	0.4 (0.18)	Stk	SGA1J6AP2	PT-615	—	—	—
	6 (153.0)	Parallel	240	150	35 (5.4)	0.4 (0.18)	Stk	SGA1J6AP3	PT-615	—	—	—
	6 (153.0)	Parallel	120	300	70 (10.8)	0.4 (0.18)	Stk	SGA1J6AP4	—	PT-603	—	—
	6 (153.0)	Parallel	240	300	70 (10.8)	0.4 (0.18)	Stk	SGA1J6AP5	—	PT-603	—	—
	7½ (190.5)	Offset	120	150	29 (4.5)	0.5 (0.23)	Stk	SGA1J7J01	OT-715	—	SS1041	—
	7½ (190.5)	Offset	240	150	29 (4.5)	0.5 (0.23)	Stk	SGA1J7J02	OT-715	—	SS1052	—
	7½ (190.5)	Offset	240	200	38 (5.9)	0.5 (0.23)	Stk	SGA1J7J03	—	OT-702	—	SS2052
	8 (203.2)	Offset	120	150	25 (3.9)	0.5 (0.23)	Stk	SGA1J8A01	OT-815	—	SS1061	—
	8 (203.2)	Offset	240	150	25 (3.9)	0.5 (0.23)	Stk	SGA1J8A05	OT-815	—	SS1072	—
	8 (203.2)	Offset	120	175	29 (4.5)	0.5 (0.23)	Stk	SGA1J8A06	OT-817	—	SS1081	—
	8 (203.2)	Offset	240	175	29 (4.5)	0.5 (0.23)	Stk	SGA1J8A07	OT-817	—	SS1092	—
	8 (203.2)	Offset	120	250	42 (6.5)	0.5 (0.23)	Stk	SGA1J8A02	—	OT-802	—	SS2061
	8 (203.2)	Offset	240	250	42 (6.5)	0.5 (0.23)	Stk	SGA1J8A08	—	OT-802	—	SS2072
	8 (203.2)	Offset	120	400	67 (10.4)	0.5 (0.23)	Stk	SGA1J8A09	—	OT-804	—	SS2081
	8 (203.2)	Offset	240	400	67 (10.4)	0.5 (0.23)	Stk	SGA1J8A010	—	OT-804	—	SS2092
	8 (203.2)	Offset	120	500	83 (12.9)	0.5 (0.23)	Stk	SGA1J8A03	—	—	—	—
	8 (203.2)	Offset	240	500	83 (12.9)	0.5 (0.23)	Stk	SGA1J8A04	—	—	—	—
	8 (203.2)	1-on-1	120	150	24 (3.7)	0.5 (0.23)	Stk	SGA1J8AT1	S-815	—	SD1021	—
	8 (203.2)	1-on-1	240	150	24 (3.7)	0.5 (0.23)	Stk	SGA1J8AT2	S-815	—	SD1032	—
	9½ (241.3)	1-on-1	120	200	23 (3.6)	0.6 (0.27)	Stk	SGA1J9JT1	S-920	—	SD1041	—
	10½ (266.7)	Offset	120	250	26 (4.0)	0.7 (0.32)	Stk	SGA1J10J01	OT-1025	—	SS1101	—
	10½ (266.7)	Offset	240	250	26 (4.0)	0.7 (0.32)	Stk	SGA1J10J02	OT-1025	—	SS1102	—
	10½ (266.7)	Offset	120	350	36 (5.6)	0.7 (0.32)	Stk	SGA1J10J08	—	OT-1003	—	SS2101
	10½ (266.7)	Offset	240	350	36 (5.6)	0.7 (0.32)	Stk	SGA1J10J05	—	OT-1003	—	SS2112
	10½ (266.7)	Offset	120	400	41 (6.4)	0.7 (0.32)	Stk	SGA1J10J06	—	OT-1004	—	SS2131
	10½ (266.7)	Offset	240	400	41 (6.4)	0.7 (0.32)	Stk	SGA1J10J07	—	OT-1004	—	SS2132
	12 (304.8)	Offset	120	250	21 (3.3)	0.8 (0.32)	Stk	SGA1J12A01	OT-1225	OT-1202	SS1141	—
	12 (304.8)	Offset	240	250	21 (3.3)	0.8 (0.32)	Stk	SGA1J12A02	OT-1225	OT-1202	SS1152	—
	12 (304.8)	Offset	120	350	29 (4.5)	0.8 (0.36)	Stk	SGA1J12A05	—	OT-1203	—	SS2141
	12 (304.8)	Offset	240	350	29 (4.5)	0.8 (0.36)	Stk	SGA1J12A06	—	OT-1203	—	SS2152
	12 (304.8)	Offset	120	500	42 (6.5)	0.8 (0.36)	Stk	SGA1J12A03	—	OT-1205	—	SS2161
	12 (304.8)	Offset	240	500	42 (6.5)	0.8 (0.36)	Stk	SGA1J12A04	—	OT-1205	—	SS2172
	12 (304.8)	1-on-1	120	250	20 (3.1)	0.8 (0.36)	Stk	SGA1J12AT1	S-1225	S-1202	SD1061	SD2071
	12 (304.8)	1-on-1	240	250	20 (3.1)	0.8 (0.36)	Stk	SGA1J12AT2	S-1225	S-1202	SD1072	SD2082
	12 (304.8)	1-on-1	240	500	40 (6.2)	0.8 (0.36)	Stk	SGA1J12AT3	—	S-1205	—	SD2122
	14 (355.6)	Offset	120	300	20 (3.1)	0.9 (0.41)	Stk	SGA1J14A02	OT-1430	—	SS1181	—
	14 (355.6)	Offset	240	300	20 (3.1)	0.9 (0.41)	Stk	SGA1J14A01	OT-1430	—	SS1192	—
	14 (355.6)	Offset	120	500	33 (5.1)	0.9 (0.41)	Stk	SGA1J14A03	—	OT-1405	—	SS2181
	14 (355.6)	Offset	240	500	33 (5.1)	0.9 (0.41)	Stk	SGA1J14A04	—	OT-1405	—	SS2192
	14 (355.6)	1-on-1	120	300	20 (3.1)	0.9 (0.41)	Stk	SGA1J14AT1	S-1430	—	SD1131	—
	15½ (387.4)	Offset	120	325	19 (2.9)	1.0 (0.45)	Stk	SGA1J15E02	OT-1532	—	SS1201	—
	15½ (387.4)	Offset	240	325	19 (2.9)	1.0 (0.45)	Stk	SGA1J15E03	OT-1532	—	SS1212	—
	15½ (387.4)	Offset	240	500	30 (4.6)	1.0 (0.45)	Stk	SGA1J15E04	—	OT-1505	—	SS2212
	17½ (454.0)	Offset	120	350	17 (2.6)	1.2 (0.54)	Stk	SGA1J17R04	OT-1835	—	SS1221	SS2221
	17½ (454.0)	Offset	240	350	17 (2.6)	1.2 (0.54)	Stk	SGA1J17R05	OT-1835	—	SS1232	SS2232
	17½ (454.0)	Offset	120	375	18 (2.8)	1.2 (0.54)	Stk	SGA1J17R06	OT-1837	—	SS1241	—
	17½ (454.0)	Offset	240	375	18 (2.8)	1.2 (0.54)	Stk	SGA1J17R07	OT-1837	—	SS1252	—
	17½ (454.0)	Offset	120	500	24 (3.7)	1.2 (0.54)	Stk	SGA1J17R01	OT-1850	—	SS1261	SS2241
	17½ (454.0)	Offset	240	500	24 (3.7)	1.2 (0.54)	Stk	SGA1J17R02	OT-1850	—	SS1272	SS2252

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Wellman® is a registered tradename of Wellman Thermal Systems Corp.
Chromolox® is a registered tradename of Chromolox Industrial Heaters Products.

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F.O.B.: St. Louis, Missouri

375 Strip

Width in (mm)	Length in (mm)	Term.	Volts	Power (Watts)	Watt Density W/in ² (W/cm ²)	Approx. Net Wt. lbs (kg)	Avail.	Code No.	Chromolox®	Code No. ①	Wellman®	Code No. ①
									Rust Resist. Iron Sheath	Chrome Stl. Sheath	Aluminized Steel Sheath	Chrome Stl. Sheath
1½ (38.1)	17% (454.0)	Offset	120	750	36 (5.6)	1.2 (0.54)	Stk	SGA1J17R09	—	OT-1807	—	SS2261
	17% (454.0)	Offset	240	750	36 (5.6)	1.2 (0.54)	Stk	SGA1J17R08	—	OT-1807	—	SS2272
	17% (454.0)	Offset	120	1000	48 (7.4)	1.2 (0.54)	Stk	SGA1J17R010	—	OT-1801	—	SS2281
	17% (454.0)	Offset	240	1000	48 (7.4)	1.2 (0.54)	Stk	SGA1J17R03	—	OT-1801	—	SS2292
	17% (454.0)	1-on-1	120	500	24 (3.7)	1.2 (0.54)	Stk	SGA1J17RT1	S-1850	S-1805	SD1211	SD2171
	17% (454.0)	1-on-1	240	500	24 (3.7)	1.2 (0.54)	Stk	SGA1J17RT2	S-1850	S-1805	SD1222	SD2182
	17% (454.0)	1-on-1	240	750	35 (5.4)	1.2 (0.54)	Stk	SGA1J17RT3	—	S-1807	—	SD2202
	17% (454.0)	1-on-1	120	1000	47 (7.3)	1.2 (0.54)	Stk	SGA1J17RT4	—	S-1801	—	SD2211
	17% (454.0)	1-on-1	240	1000	47 (7.3)	1.2 (0.54)	Stk	SGA1J17RT5	—	S-1801	—	SD2222
	19½ (495.3)	Offset	240	350	15 (2.3)	1.3 (0.59)	Stk	SGA1J19J06	OT-1935	—	SS1301	—
	19½ (495.3)	Offset	120	500	22 (3.4)	1.3 (0.59)	Stk	SGA1J19J07	OT-1950	OT-1905	—	SS2301
	19½ (495.3)	Offset	240	500	22 (3.4)	1.3 (0.59)	Stk	SGA1J19J04	OT-1950	OT-1905	—	SS2312
	19½ (495.3)	Offset	240	750	32 (5.0)	1.3 (0.59)	Stk	SGA1J19J08	—	OT-1907	—	—
	19½ (495.3)	Offset	240	1000	43 (6.7)	1.3 (0.59)	Stk	SGA1J19J01	—	OT-1901	—	SS2332
	19½ (495.3)	1-on-1	240	750	32 (5.0)	1.3 (0.59)	Stk	SGA1J19JT1	—	S-1907	—	SD2262
	21 (533.4)	Offset	120	500	20 (3.1)	1.4 (0.64)	Stk	SGA1J21A01	OT-2150	—	SS1341	—
	21 (533.4)	Offset	240	500	20 (3.1)	1.4 (0.64)	Stk	SGA1J21A02	OT-2150	—	SS1352	—
	21 (533.4)	Offset	120	750	29 (4.5)	1.4 (0.64)	Stk	SGA1J21A03	—	OT-2107	—	SS2341
	21 (533.4)	Offset	240	750	29 (4.5)	1.4 (0.64)	Stk	SGA1J21A04	—	OT-2107	—	SS2352
	21 (533.4)	1-on-1	120	500	19 (2.9)	1.4 (0.64)	Stk	SGA1J21AT1	S-2050	S-2005	SD1291	SD2291
	23% (603.3)	Offset	120	500	17 (2.6)	1.5 (0.68)	Stk	SGA1J23N05	OT-2450	OT-2405	SS1361	SS2361
	23% (603.3)	Offset	240	500	17 (2.6)	1.5 (0.68)	Stk	SGA1J23N06	OT-2450	OT-2405	SS1372	SS2372
	23% (603.3)	Offset	120	750	25 (3.9)	1.5 (0.68)	Stk	SGA1J23N01	OT-2475	OT-2407	SS1391	SS2381
	23% (603.3)	Offset	240	750	25 (3.9)	1.5 (0.68)	Stk	SGA1J23N02	OT-2475	OT-2407	SS1402	SS2392
	23% (603.3)	Offset	120	1000	34 (5.3)	1.5 (0.68)	Stk	SGA1J23N07	—	OT-2401	—	SS2401
	23% (603.3)	Offset	240	1000	34 (5.3)	1.5 (0.68)	Stk	SGA1J23N03	—	OT-2401	—	SS2412
	23% (603.3)	Offset	240	1500	51 (7.9)	1.5 (0.68)	Stk	SGA1J23N04	—	OT-2415	—	—
	23% (603.3)	1-on-1	240	250	8 (1.2)	1.5 (0.68)	Stk	SGA1J23NT1	S-2425	—	SD1322	—
	23% (603.3)	1-on-1	240	500	17 (2.6)	1.5 (0.68)	Stk	SGA1J23NT3	S-2450	S-2404	SD1342	SD2322
	23% (603.3)	1-on-1	240	750	25 (3.9)	1.5 (0.68)	Stk	SGA1J23NT5	—	S-2407	—	SD2352
	23% (603.3)	1-on-1	120	1000	33 (5.1)	1.5 (0.68)	Stk	SGA1J23NT6	—	S-2401	—	SD2361
	23% (603.3)	1-on-1	240	1000	33 (5.1)	1.5 (0.68)	Stk	SGA1J23NT7	—	S-2401	—	SD2372
	23% (603.3)	1-on-1	240	1500	50 (7.7)	1.5 (0.68)	Stk	SGA1J23NT8	—	S-2415	—	—
	25% (647.7)	Offset	120	500	16 (2.5)	1.7 (0.77)	Stk	SGA1J25J01	OT-2550	—	SS1421	—
	25% (647.7)	Offset	240	500	16 (2.5)	1.7 (0.77)	Stk	SGA1J25J02	OT-2550	—	SS1432	—
	25% (647.7)	Offset	120	750	23 (3.6)	1.7 (0.77)	Stk	SGA1J25J03	OT-2575	OT-2507	SS1441	SS2421
	25% (647.7)	Offset	240	750	23 (3.6)	1.7 (0.77)	Stk	SGA1J25J04	OT-2575	OT-2507	SS1452	SS2432
	25% (647.7)	Offset	240	1000	31 (4.8)	1.7 (0.77)	Stk	SGA1J25J05	—	OT-2501	—	SS2452
	26% (679.5)	Offset	240	700	21 (3.3)	1.7 (0.77)	Stk	SGA1J26N01	OT-2670	—	SS1472	—
	26% (679.5)	Offset	240	1000	29 (4.5)	1.7 (0.77)	Stk	SGA1J26N02	—	OT-2601	—	SS2472
	30% (774.7)	Offset	120	750	19 (2.9)	2.0 (0.91)	Stk	SGA1J30J02	OT-3075	OT-3007	SS1481	—
	30% (774.7)	Offset	240	750	19 (2.9)	2.0 (0.91)	Stk	SGA1J30J03	OT-3075	OT-3007	SS1492	SS2482
	30% (774.7)	1-on-1	240	750	19 (2.9)	2.0 (0.91)	Stk	SGA1J30JT1	S-3075	S-3007	SD1452	—
	33% (850.9)	Offset	240	750	17 (2.6)	2.2 (1.0)	Stk	SGA1J33J01	OT-3375	OT-3307	SS1522	SS2522
	33% (850.9)	1-on-1	240	1000	22 (3.4)	2.2 (1.0)	Stk	SGA1J33JT1	—	S-3301	—	SD2472
	35% (911.2)	Offset	120	1000	21 (3.3)	2.3 (1.0)	Stk	SGA1J35R04	OT-3610	SS1531	SS1531	—
	35% (911.2)	Offset	240	1000	21 (3.3)	2.3 (1.0)	Stk	SGA1J35R03	OT-3610	—	SS1542	SS2532
	35% (911.2)	Offset	240	1500	31 (4.8)	2.3 (1.0)	Stk	SGA1J35R01	—	OT-3601	SS2552	—
	35% (911.2)	1-on-1	240	1000	21 (3.3)	2.3 (1.0)	Stk	SGA1J35RT1	S-3610	S-3601	SD1492	SD2492
	38% (977.9)	Offset	120	1000	19 (2.9)	2.5 (1.1)	Stk	SGA1J38J02	OT-3810	OT-3801	SS1581	SS2561
	38% (977.9)	Offset	240	1500	29 (4.5)	2.5 (1.1)	Stk	SGA1J38J03	—	OT-3815	—	—
	42% (1079.5)	Offset	240	1500	26 (4.0)	2.8 (1.3)	Stk	SGA1J42J01	—	OT-4315	SS1632	SS2632
	47% (1216.0)	Offset	240	2250	34 (5.3)	3.1 (1.4)	Stk	SGA1J47R01	—	OT-4822	—	—