

## CERAMIC RIBBON HEATERS

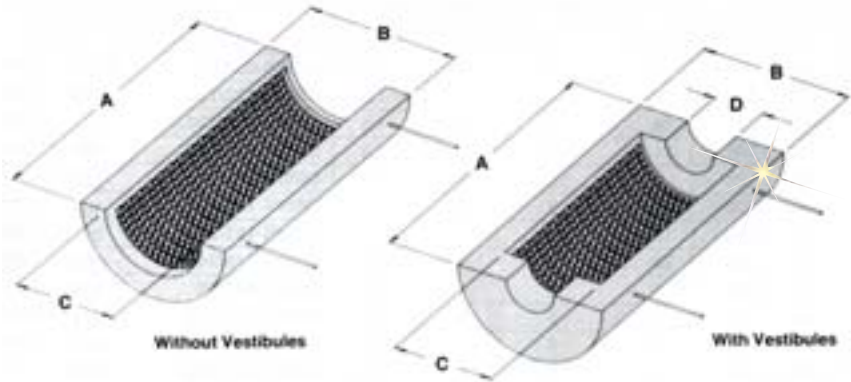
### Ultra-High Temperature, Helically Wound

CRRS Series  
Starts at  
**\$285**

- ✓ Helically Wound Ribbon Iron-Chrome-Aluminum
- ✓ Rated to 900°C (1800°F)
- ✓ Low Mass Vacuum Formed Ceramic Fiber
- ✓ Use Two Semi-Cylindrical Units to Form a Full Cylinder

#### APPLICATIONS

- ✓ Pipe Heating
- ✓ Process Air Heating
- ✓ Calibration Ovens
- ✓ Strain Annealing Ovens
- ✓ Tube Furnace



With the CRRS and CRFP Series the helically wound iron-chrome-aluminum ribbon elements are mounted in ridges which permits heat dissipation in three directions, thereby transferring more radiant heat energy to work chamber and load. Using this design effectively triples the radiant heating surface. The unique design allows for two semi-cylindrical units to be combined to form a full cylinder heating element.

#### SPECIFICATIONS

**Semi-Cylindrical Helically Wound Ribbon Models:**

**Wattage:** 800 to 9500 Watts

**Voltage:** 120 and 240 Vac single and dual circuits

#### Semi-Cylindrical Helically Wound Ribbon Models

**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)									
Watts	Volts	Dimensions: cm (in)				Without Vestibules		With Vestibules	
		A DIM*	B DIM	C DIM	D DIM	Model No.	Price	Model No.	Price
800	120	15 (6)	28 (11)	18 (7)	13 (5)	<b>CRRS-67/120-A</b>	<b>\$285</b>	CRRS-67/120C-A	\$310
1600	240	30 (12)	28 (11)	18 (7)	13 (5)	CRRS-127/240-A	222	CRRS-127/240C-A	247
2400	240	46 (18)	28 (11)	18 (7)	13 (5)	CRRS-187/240-A	330	CRRS-187/240C-A	365
3200	240	61 (24)	28 (11)	18 (7)	13 (5)	<b>CRRS-247/240-A</b>	<b>462</b>	<b>CRRS-247/240C-A</b>	<b>512</b>
900	120	15 (6)	30 (12)	20 (8)	15 (6)	<b>CRRS-68/120-A</b>	<b>158</b>	<b>CRRS-68/120C-A</b>	<b>173</b>
1800	240	30 (12)	30 (12)	20 (8)	15 (6)	CRRS-128/240-A	419	CRRS-128/240C-A	502
2700	240	46 (18)	30 (12)	20 (8)	15 (6)	<b>CRRS-188/240-A</b>	<b>656</b>	<b>CRRS-188/240C-A</b>	<b>719</b>
3600	240	61 (24)***	30 (12)	20 (8)	15 (6)	CRRS-248/240-A	903	CRRS-248/240C-A	827
2250	240	30 (12)	36 (14)	25 (10)	20 (8)	CRRS-1210/240-A	542	CRRS-1210/240C-A	596
3375	240	46 (18)	36 (14)	25 (10)	20 (8)	CRRS-1810/240-A	776	CRRS-1810/240C-A	782
4500	240	61 (24)***	36 (14)	25 (10)	20 (8)	CRRS-2410/240-A	1100	CRRS-2410/240C-A	1213
2700	240	30 (12)	41 (16)	30 (12)	25 (10)	CRRS-1212/240-A	665	CRRS-1212/240C-A	735
4050	240	46 (18)	41 (16)	30 (12)	25 (10)	<b>CRRS-1812/240-A</b>	<b>937</b>	<b>CRRS-1812/240C-A</b>	<b>1036</b>
5400	240	61 (30)	12 (25)	12 (35)	25 (10)	CRRS-2412/240-A	1154	CRRS-2412/240C-A	1275
3400	240	30 (12)	48 (19)	38 (15)	33 (13)	CRRS-1215/240-A	850	CRRS-1215/240C-A	937
5100	240	46 (18)	48 (19)	38 (15)	33 (13)	CRRS-1815/240-A	1145	CRRS-1815/240C-A	1265
6800	240**	61 (24)***	48 (19)	38 (15)	33 (13)	CRRS-2415/240-A	1585	CRRS-2415/240C-A	1730
4100	240	30 (12)	56 (22)	46 (18)	41 (16)	CRRS-1218/240-A	986	CRRS-1218/240C-A	1081
6150	240**	46 (18)	56 (22)	46 (18)	41 (16)	<b>CRRS-1818/240-A</b>	<b>1279</b>	<b>CRRS-1818/240C-A</b>	<b>1412</b>
8200	240**	61 (24)***	56 (22)	46 (18)	41 (16)	CRRS-2418/240-A	1840	CRRS-2418/240C-A	2024
4750	240	30 (12)	64 (25)	53 (21)	48 (19)	CRRS-1221/240-A	1145	CRRS-1221/240C-A	1265
7125	240**	46 (18)	64 (25)	53 (21)	48 (19)	CRRS-1821/240-A	1429	CRRS-1821/240C-A	1585
9500	240**	61 (24)***	64 (25)	53 (21)	48 (19)	CRRS-2421/240-A	2020	CRRS-2421/240C-A	2225

\* Add 3" for units with vestibules \*\* Dual 240 Vac circuits

\*\*\* Using two 12" long heaters; the indicated wattage is the total of two 12" long heaters.

Ordering Example: CRRS-67/120C-A is an 800 watt 120 Vac heater, 6" long with a 7" ID and 3" unheated vestibules, \$310.

## CERAMIC RIBBON HEATERS

### Flat Plate Ceramic Heating Elements

CRFP Series  
Starts at

**\$177**

- ✓ Rated to 900°C (1800°F)
- ✓ Helically Wound Ribbon Iron-Chrome-Aluminum
- ✓ Low Mass Vacuum Formed Ceramic Fiber
- ✓ Optional Unheated Flanges
- ✓ Low Watt Density
- ✓ Fast Heat-Up and Cool Down

#### APPLICATIONS

- ✓ Heat Treating Furnaces
- ✓ Fluidized Bed Furnaces
- ✓ Process Air Heating
- ✓ Pipe Heating

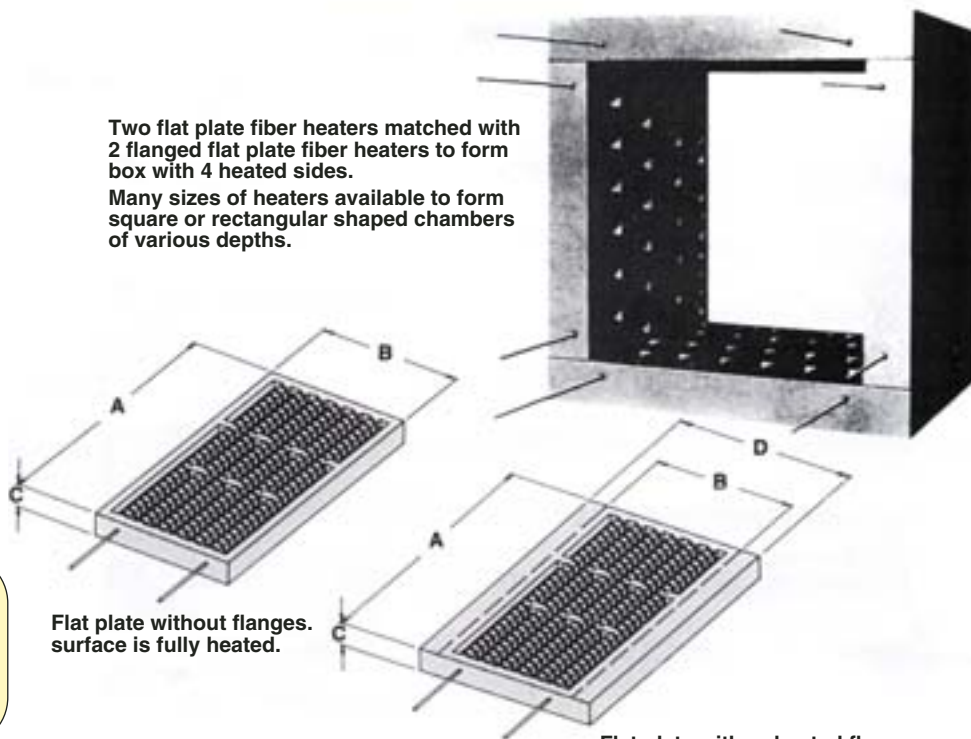
#### SPECIFICATIONS

**Wattage:** 300 to 6200 Watts

**Voltage:** 60, 120, and 240 Vac Single and dual/circuits

Two flat plate fiber heaters matched with 2 flanged flat plate fiber heaters to form box with 4 heated sides.

Many sizes of heaters available to form square or rectangular shaped chambers of various depths.



Flat plate without flanges. surface is fully heated.

Flat plate with unheated flanges. All flange plates have 51 mm (2") wide unheated flanges on each side of heated area.

**MOST POPULAR MODELS HIGHLIGHTED!**

#### To Order (Specify Model Number)

Watts	Volts	Dimensions: cm (in)				Without Flanges		With Flanges	
		A DIM	B DIM	C DIM	D DIM	Model No.	Price	Model No.	Price
300	60	15 (6)	10 (4)	5 (2)	20 (8)	CRFP-64/60-A	\$141	CRFP-64/60-C-A	\$160
600	120	3 (12)	10 (4)	5 (2)	20 (8)	CRFP-124/120-A	206	CRFP-124/120-C-A	211
400	60	15 (6)	15 (6)	5 (2)	25 (10)	CRFP-66/60-A	177	CRFP-66/60-C-A	188
800	120	30 (12)	15 (6)	5 (2)	25 (10)	CRFP-126/120-A	222	CRFP-126/120-C-A	233
1250	120	46 (18)	15 (6)	5 (2)	25 (10)	CRFP-186/120-A	318	CRFP-186/120-C-A	343
1650	240	61 (24)	15 (6)	5 (2)	25 (10)	CRFP-246/240-A	355	CRFP-246/240-C-A	365
1100	120	30 (12)	20 (8)	5 (2)	30 (12)	CRFP-128/120-A	290	CRFP-128/120-C-A	303
1650	240	46 (18)	20 (8)	5 (2)	30 (12)	CRFP-188/240-A	335	CRFP-188/240-C-A	386
2200	240	61 (24)	20 (8)	5 (2)	30 (12)	CRFP-248/240-A	449	CRFP-248/240-C-A	481
1375	240	30 (12)	25 (10)	5 (2)	36 (14)	CRFP-1210/240-A	307	CRFP-1210/240-C-A	320
2050	240	46 (18)	25 (10)	5 (2)	36 (14)	CRFP-1810/240-A	395	CRFP-1810/240-C-A	431
2750	240	61 (24)	25 (10)	5 (2)	36 (14)	CRFP-2410/240-A	557	CRFP-2410/240-C-A	633
3400	240	76 (30)	25 (10)	5 (2)	36 (14)	CRFP-3010/240-A	704	CRFP-3010/240-C-A	778
1650	240	30 (12)	30 (12)	5 (2)	41 (16)	CRFP-1212/240-A	365	CRFP-1212/240-C-A	395
2460	240	46 (18)	30 (12)	5 (2)	41 (16)	CRFP-1812/240-A	487	CRFP-1812/240-C-A	533
3280	240	61 (24)	30 (12)	5 (2)	41 (16)	CRFP-2412/240-A	685	CRFP-2412/240-C-A	759
4100	240	76 (30)	30 (12)	5 (2)	41 (16)	CRFP-3012/240-A	811	CRFP-3012/240-C-A	893
3700	240	46 (18)	46 (18)	5 (2)	56 (22)	CRFP-1818/240-A	750	CRFP-1818/240-C-A	812
5000	240	61 (24)	46 (18)	5 (2)	56 (22)	CRFP-2418/240-A	785	CRFP-2418/240-C-A	865
6200	240*	76 (30)	46 (18)	5 (2)	56 (22)	CRFP-3018/240-A	1190	CRFP-3018/240-C-A	1300

\* Dual 240 Vac circuits

Ordering Example: CRFP-1812/240-C-A, 2460 watt heater with vestibules powered by 240 Vac, \$533.

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