

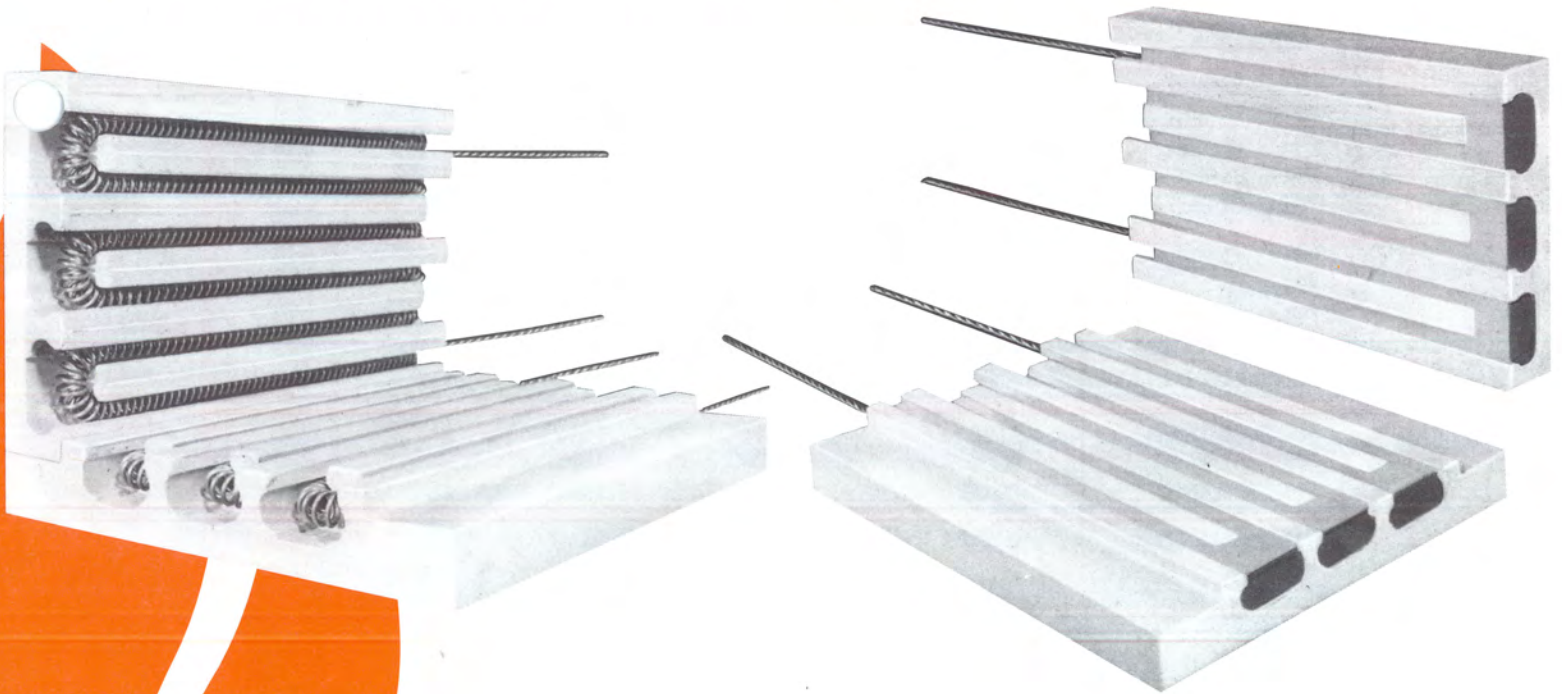


# Thermcraft incorporated

High Performance Technology

# CAST HEATERS

## LARGE-SIZE, SINGLE-PIECE CERAMIC HEATER PLATES



**CUSTOM SIZES AVAILABLE TO MEET ALL REQUIREMENTS** up to 24" x 24" will reach temperatures in excess of 1204°C (2200°F). Large 5/8 ID grooves permit the use of exceptionally large gage wire for low wire surface watt densities and at the same time allow for high wattage per square inch of radiating surface.

Custom sizes, watts, volts, thermocouple holes, sight ports, and extra long braided leads, are available for the special designed heater to meet almost any requirement. Coils can be embedded or exposed.

**YOUR SOURCE FOR HIGH TEMPERATURE PERFORMANCE**



**FPH-C SERIES (Plate with Flanges on each side)**

Model No.	Watts	Dimensions in inches				Volts
		A	B	C	D	
FPH-C 12-650	1800	12"	9 <sup>5</sup> / <sub>8</sub> "	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 15-650	2250	15"	9 <sup>5</sup> / <sub>8</sub> "	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 18-650	2700	18"	9 <sup>5</sup> / <sub>8</sub> "	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 21-650	3150	21"	9 <sup>5</sup> / <sub>8</sub> "	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 24-650	3600	24"	9 <sup>5</sup> / <sub>8</sub> "	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 12-1250	3600	12"	15 <sup>5</sup> / <sub>8</sub> "	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 15-1250	4500	15"	15 <sup>5</sup> / <sub>8</sub> "	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 18-1250	5400	18"	15 <sup>5</sup> / <sub>8</sub> "	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
FPH-C 21-1250	6300	21"	15 <sup>5</sup> / <sub>8</sub> "	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230*
FPH-C 24-1250	7200	24"	15 <sup>5</sup> / <sub>8</sub> "	15 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230*
FPH-C 18-1850	8100	18"	21 <sup>5</sup> / <sub>8</sub> "	18 <sup>5</sup> / <sub>8</sub> "	2"	230*
FPH-C 21-1850	9450	21"	21 <sup>5</sup> / <sub>8</sub> "	18 <sup>5</sup> / <sub>8</sub> "	2"	230*
FPH-C 24-1850	10800	24"	21 <sup>5</sup> / <sub>8</sub> "	18 <sup>5</sup> / <sub>8</sub> "	2"	460
FPH-C 24-2450	14400	24"	27 <sup>5</sup> / <sub>8</sub> "	24 <sup>5</sup> / <sub>8</sub> "	2"	460+

**PH-C SERIES (Flat Plate, No Flanges)**

Model No.	Watts	A	B	D	Volts
PH-C 12-650	1800	12"	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 15-650	2250	15"	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 18-650	2700	18"	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 21-650	3150	21"	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 24-650	3600	24"	6 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 12-1250	3600	12"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 15-1250	4500	15"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 18-1250	5400	18"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230
PH-C 21-1250	6300	21"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230*
PH-C 24-1250	7200	24"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	230*
PH-C 18-1850	8100	18"	18 <sup>5</sup> / <sub>8</sub> "	2"	230*
PH-C 21-1850	9450	21"	18 <sup>5</sup> / <sub>8</sub> "	2"	230*
PH-C 24-1850	10800	24"	18 <sup>5</sup> / <sub>8</sub> "	2"	460
PH-C 24-2450	14400	24"	24 <sup>5</sup> / <sub>8</sub> "	2"	460+

**Note:**  
Two, 230 Volt heaters may be wired in a series for operation from a 460 Volt power source.

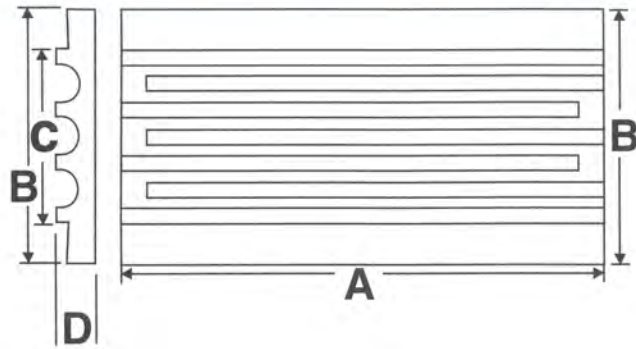
\* Indicates heaters containing two (2) 230 Volt circuits. May be wired in parallel for full amperage on 230 Volt or wired in series for operation from a 460 Volt power source.

+ Indicates heater containing two (2) 460 Volt circuits or four (4) 230 Volt circuits, if desired.

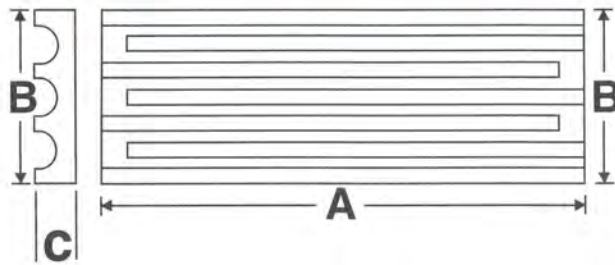
**Wattage & Voltage changes available to meet your requirements.**

**All heaters with heated surfaces (C dimension) less than 15" wide, 1<sup>1</sup>/<sub>2</sub>" thick; all over 15", 2" thick.**

**FPH-C SERIES (Plate with Flanges on each side)**



**PH-C SERIES (Flat Plate, No Flanges)**



Custom sizes available to meet all requirements

**Special Shapes**

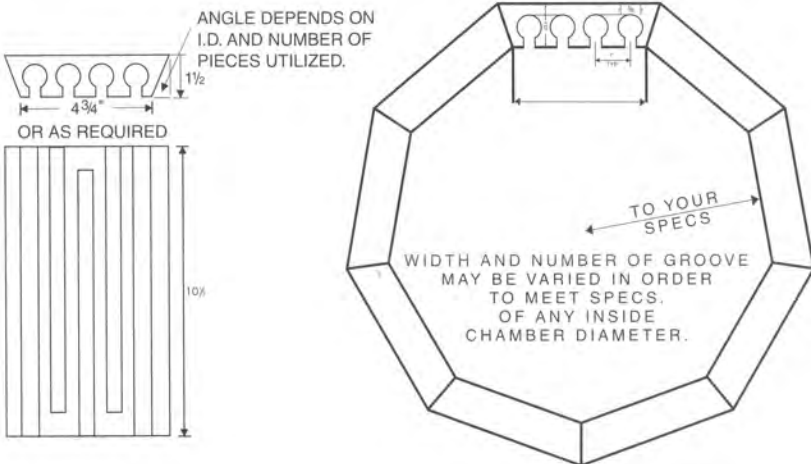
Special shapes such as one illustrated at left are available from Thermcraft.

Type shown at left is used for heating circular objects or is equally desirable for BELL type furnaces where heaters are used in vertical position.

Large gauge resistance wire permits high wattages, low wire watt densities on the surfaces of the wire (for long heater life) and produces a high wattages per square inch of heater radiating surface for fast heat up and recovery.

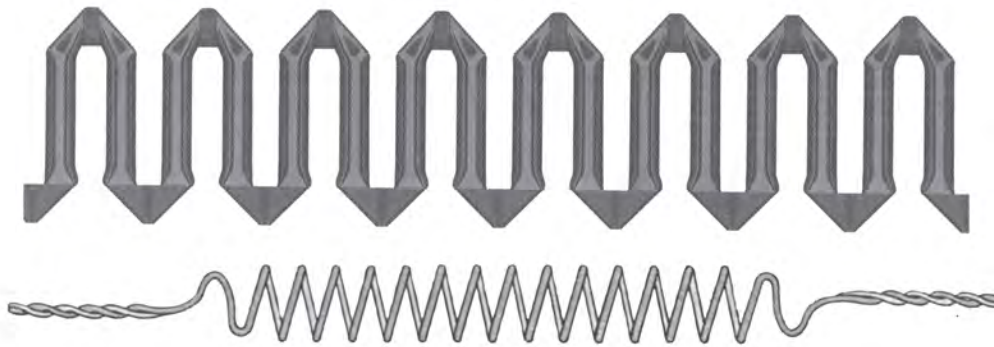
Unit shown contains 9 sections. Six and nine section units are adaptable to 3 phase power sources.

Width and number of grooves may be varied to enclose circular objects of any diameter or to meet I.D. furnace chamber requirements.





## REPLACEMENT COILS AND ELEMENTS



Replacement coils and elements are available in a variety of configurations, voltages, wattages and wire sizes. These can be designed to meet your specific requirements.

*Please request detailed brochures for further explanation of the product range:*

**Box Furnaces**  
**Ceramic Heating Elements**  
**Ceramic Fiber Insulation & Insulation Packages**  
**Control Systems**  
**Custom Furnaces**  
**Custom Ovens**  
**Diffusion Heating Elements**  
**Fibercraft® Vacuum Formed Heating Elements**  
**LAB-TEMP**  
**Marshall™ Furnaces**  
**Thermal Knife<sup>PAT</sup>**  
**Thermocouples**  
**Standard Tube Furnaces (10 day shipment)**  
**Vestibule Blocks**

Thermcraft has a wide range of standard products which includes: ceramic heaters, vacuum formed ceramic fiber heaters, diffusion heaters, control systems, as well as industrial ovens and furnaces. A standard line of split tube furnaces, solid tube furnaces, and controls are available for shipment in (10) working days. Thermcraft is also a recognized leader in **CUSTOM** heat-treating, industrial, and laboratory ovens and furnaces.

Call your local representative or our staff of trained sales engineers at the Winston-Salem plant with any of your heating problems.



Accepted for  
your convenience



**Thermcraft**  
incorporated

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