



PRODUCT BULLETIN

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HIGH PERFORMANCE FURNACES WITH OPERATING TEMPERATURES UP TO 1700 DEG. C

FEATURES OF F46 FURNACES

Unique Door Design

- Unique door mechanism provides safe, easy door operation.
- Door is spring loaded to assist in easy opening and closing. The movement keeps the hot surface of the door away from the operator, avoiding excessive heat upon opening.
- Self-aligning door seal is incorporated to minimize heat loss and increase chamber uniformity.

Interchangeable Control Modules

- Programmable control modules are interchangeable to allow operator flexibility and ease of access if interchanging is needed. Simply remove control module from sleeve and insert the other controller. Requires no rewiring or disassembling.

Fast Heat-up

- The furnace can reach 1600°C in approximately 40 minutes (see graphs).
- Heat-up rate allows for optimum element life. (Faster heat-up rates may endanger SuperKanthal 33 elements.)

Air Ventilation

- Continuous air circulation maintains cool case temperature of 50°C at maximum chamber temperature of 1700°C and ensures longevity of electronic components.

Unitized Controller

- The combination of chamber and controller requires only one electrical hook-up and saves bench space.

Inert Atmosphere

- Two inert gas injection ports: one on top of the unit and one on back. Ports are 0.38" (0.95 cm) diameter and are supplied with plugs.
- No power cord supplied. Electrical connection requires fixed wiring.

OPERATION

- Controllers have RS232 digital communications as standard feature.
 - Extremely reliable control units are backed by a 24 month warranty.
- Digital programmable control with one stored program of 8 segments. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.

APPLICATIONS

This 1700°C furnace is ideally suited for wide variety of high temperature applications:

- Composite research.
- Precious and exotic metals treatment.
- High temperature ceramic research.
- Powder Metallurgy.



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SPECIFICATIONS:

F46100

Amps 40
Chamber Volume Cubic Inches 242 (3.4 Liters)
Chamber Dimensions D 6" x H 6 " x W 6"
Operating Temp Range C 800-1700
Overall Dimensions D 18 x 18" (H) x 28" (W)

Shipping Weight 165 Lbs.
Stabilization Amps 10
Stabilization Watts 2500
Temp Control Group B
Volts 240
Watts 9600

F46200

Amps 40
Chamber Volume Cubic Inches 1002 (16.3 Liters)
Chamber Dimensions D 10" x H 10 " x W 10"
Operating Temp Range C 800-1700
Overall Dimensions D 22 x 22.5" (H) x 34" (W)

Shipping Weight 255 Lbs
Stabilization Amps 21
Stabilization Watts 5000
Temp Control Group B
Volts 240
Watts 9600