

**Pyradia**

INDUSTRIAL OVENS & FURNACES

**Labequip**.com



Provides the toughness required for industrial applications with the versatility needed for precision lab work

## **INDUSTRIAL & LABORATORY TABLETOP FURNACES**

- + GENERAL HEAT TREATMENT
- + RESEARCH & LABORATORY WORK
- + PYROLYSIS PROCESS
- + INVESTMENT CASTING
- + JEWELLERY

ISO 9001 • 2000

TAMING HEAT EFFICIENTLY **SINCE 1973**

## HIGH PERFORMANCE

PYRADIA'S tabletop furnaces integrate quality components and superior workmanship, for maximum performance in a variety of industrial or laboratory applications, at temperatures as high as 2 300°F (1 260°C).

**PRODUCT FEATURES** Heavy duty construction Our rugged furnace design incorporates quality hardware to a heavy gauge casing, for increased durability in all type of processes. These tabletop units are available in either a green enamel finish or oxidation resistant stainless steel.



**LONG SERVICE LIFE & EASE OF MAINTENANCE** The specially designed grooved bricks optimize heat transfer and fully support the FeCrAl heating elements for maximum life expectancy. The "open coil heating elements" are easily accessible for maintenance.

**QUALITY INSULATION** The highest quality low-density refractory bricks used in the construction of its chamber assure maximum insulation while minimizing heating or cooling cycles.

*Stainless steel model, with optional door heating elements*

**SUPERIOR HEAT DISTRIBUTION** A special attention is given to the distribution of the heating elements to assure optimal temperature uniformity throughout the furnace.



**ACCURATE TEMPERATURE CONTROL** PYRADIA tabletop furnaces are equipped with state of the art ramp to set point digital microprocessor temperature controller.



*Enamel coated steel casing, with optional vertical opening door*

- + Cabinet design & construction choice of Enamel coated 16 gauge steel or (304) stainless steel

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- + Horizontal opening door heavily hinged door With a 180° opening

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- + Insulation 4 1/2"/11 cm pre-grooved refractory bricks (With the exception of the f50, which is 2 1/2")

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- + Temperature controller microprocessor temperature controller, with auto tuning pid parameter offering ramp/soak program capability

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- + Heating elements low watt density fecral heating elements

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- + Furnace chamber hearth plate the furnace comes standard with a cordiorite hearth plate.

## CHARACTERISTICS

- + Vertical opening door Counterbalanced guillotine lifting door with "Zero weight positioning"

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- + Furnace floor stand Heavy-duty furnace stand

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- + Ni-cr heating elements Special heating elements used in corrosive environment

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- + Programmable controller 2 programs with 8 segments ramp/soak

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- + Solid state relay (ssr) For increase temperature accuracy and silent operation

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- + Adjustable exhaust vent Slide gate located on top of furnace to vent corrosive vapors, also comes with a peephole in door

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- + High limit controller Automatically shutdown heating elements when maximum temperature is exceeded

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- + Door safety switch Automatic Shut off heating elements when door is opened

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- + 3 phase 208-240v Available for the F300/F400

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- + Heating elements in door Offers greater heat distribution

## OPTIONS

**GRATER VERSATILITY** A wide choice of options gives our units the flexibility to suit a variety of commercial, industrial and laboratory heat treating applications.

# SPECIFICATIONS

## DIIMENSIONS & WEIGHT

MODELS	INSIDE DIMENSIONS			OUTSIDE DIMENSIONS			WEIGHT (lbs/kgs)
	WIDTH (inches/cm)	DEPTH (inches/cm)	HEIGHT (inches/cm)	WIDTH (inches/cm)	DEPTH (inches/cm)	HEIGHT (inches/cm)	
F100/F100HP	10.0/25	11.5/29	10.0/25	20.0/50	29.0/73	29.0/73	180/81
F200/F200HP	13.5/34	16.0/40	12.5/31	23.5/59	34.0/86	31.0/78	325/147
F300/F300HP	18.0/45	20.5/52	15.0/38	27.5/69	38.0/96	34.0/86	475/215
F400HP	13.5/34	29.5/75	15.0/38	23.5/59	46.0/116	34.0/86	1 000/453

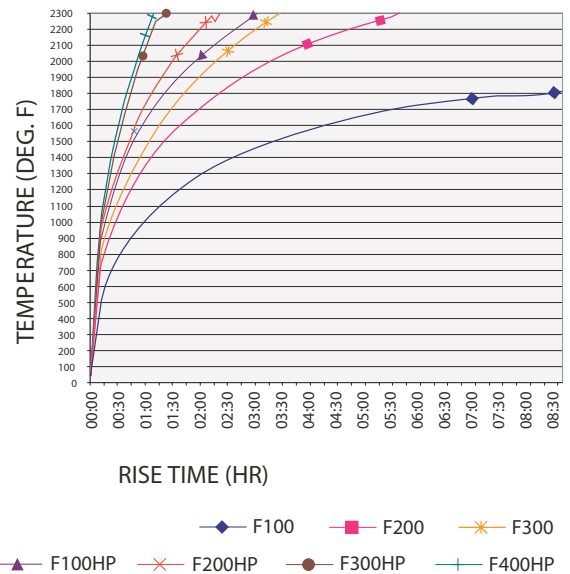
## TEMPERATURE CURVE & SPECIFICATIONS

### STANDARD POWER MAX. TEMPERATURE

MODELS	CONTINUOUS	INTERMITTENT	VOLTAGE	KW
F100	1 800°F-1 000°C	1 800°F-1 000°C	120/1/60	1.5
F200	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	3.3
F300	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	6.0
F400	N/D	N/D	N/D	N/D

### HIGH POWER MAX. TEMPERATURE

MODELS	CONTINUOUS	INTERMITTENT	VOLTAGE	KW
F100HP	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	3.0
F200HP	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	5.0
F300HP	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	10.0
F400HP	2 000°F-1 100°C	2 300°F-1 260°C	240/1/60	15.0



+ Note: The temperature curve presented in these graphs is based on testing performed on furnaces without chimneys, for furnaces coming with chimney option, temperature ramp-up time will increase by 15%.

Heavy Duty 2300°F furnaces



PYRADIA also designs and manufactures non-ferrous metal melting furnaces, heat treating furnaces, drop bottom solution ovens, walk-in ovens, cabinet ovens and heavy duty 2300°F furnaces. ISO 9001 • 2000 certification guarantees the quality of our products. For more information on our products and services, do not hesitate to visit our WEB site at [www.pyradia.com](http://www.pyradia.com)

### GUARANTEE

All PYRADIA drop bottom oven carry a one year guarantee.

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