



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
- + Horizontal opening door heavily hinged door With a 180° opening
- + Insulation 4 1/2"/11cm pre-grooved refractory bricks (With the exception of the f50, which is 2 1/2")
- + Temperature controller microprocessor temperature controller, with auto tuning pid parameter offering ramp/soak program capability
- + Heating elements low watt density fecral heating elements
- + 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"
- + Furnace floor stand Heavy-duty furnace stand
- + Ni-cr heating elements Special heating elements used in corrosive environment
- + Programmable controller 2 programs with 8 segments ramp/soak
- + Solid state relay (ssr) For increase temperature accuracy and silent operation
- + Adjustable exhaust vent Slide gate located on top of furnace to vent corrosive vapors, also comes with a peephole in door
- + High limit controller Automatically shutdown heating elements when maximum temperature is exceeded
- + Door safety switch Automatic Shut off heating elements when door is opened
- + 3 phase 208-240v Available for the F300/F400
- + 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 |

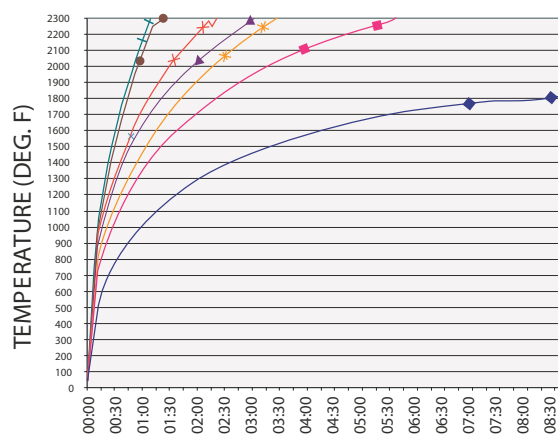
TEMPERATURE CURVE & SPECIFICATIONS

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 |



RISE TIME (HR)

◆ F100 ■ F200 ✱ F300
 ▲ F100HP ✕ F200HP ● F300HP ◆ F400HP

+ 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

GUARANTEE

All PYRADIA drop bottom oven carry a one year guarantee.

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