



**MEETS THE
STANDARDS
AMS 2750**

BI-ENERGY INDUSTRIAL OVENS
800°F // 425°C

- + ALUMINUM AGING
- + ANNEALING
- + CURING
- + PREHEATING
- + BAKING

ISO 9001 • 2000

TAMING HEAT EFFICIENTLY SINCE 1973

BI-ENERGY INDUSTRIAL OVENS // AMS 2750

800°F // 425°C

PYRADIA offers a wide range of cabinet and walk-in type ovens to meet the most demanding heat processing needs. Backed by more than 25 years of experience in oven design, these units were carefully engineered and manufactured to provide exceptional temperature uniformity and dependability under the most severe conditions. Their unique Bi-Energy feature makes them the most versatile units on the market.

BI-ENERGY FLEXIBILITY All the ovens of this series offer the versatility of choice of energy. This permits the user to counter the unpredictable energy cost fluctuations, balance the electrical load demand or accommodate the particularities of different type of processes. All the ovens of this series can therefore be equipped with an electrical heating package, a gas heating package or even both. In the event that the oven was purchased equipped with one heating package, the other heating package can easily be added when desired.

UNIQUE AIR DISTRIBUTION SYSTEM Our unique mixed-horizontal ventilation pattern propels the air transversely across the door opening, acting as an air curtain. The air is then forced horizontally from the front of the oven to the back, fully and evenly surrounding the load. All our ovens can be adjusted to meet or exceed the tightest military and aeronautic specifications to +/- 5°F/3°C when required.

BUILT TO LAST The most ruggedly built of their class, our units can withstand the most severe working conditions.

++ CONSTRUCTION The outer casing is a fully welded, 1/4"/0.6 cm angle iron structure lined with 16 gauge HRS. The inner structurally reinforced cage is free floating to prevent distortion and minimize heat transfer to outer casing. All exposed parts are fully protected by a special aluminum coating. Doors are equipped with industrial explosion relief latches.

++ INSULATION Different grades of industrial mineral fiber panels are staggered to minimize heat loss and eliminate risk of collapsing.

++ FANS The industrial, belt-driven, recirculating fans are driven by high-efficiency TEFC motors. The shaft cooling mechanism fully protects the heavy-duty expansion bearings. Fan is deactivated when door is opened.





BI-ENERGY HEATING PACKAGES

+ + ELECTRIC Lo-density Incoloy sheathed tubular heating elements are located directly in the hi-velocity air stream to provide long life and require minimal maintenance. SCR power control for close set-point accuracy.

+ + GAS The fully modulating burner with combustion air blower provides an excellent turndown ratio for close temperature control. The fully assembled gas train complies with CGA 149.3, NFPA 86 codes and regulations. The monitored exhaust fan permits the presence of volatiles in the process.

- + Explosion relief doors on roof

- + Metal trays and trolleys

- + Different types of floor arrangements for walk-in models

- + Guillotine door

- + All necessary components to meet NFPA class A ovens to handle flammable solvents

- + Steam heating

- + Alarms, timers, chart recorders, etc

- + Forced exhaust

- + Forced cooling

- + Interior lights

- + SS 304 inner lining

- + Programmable controls

- + Gas approval

OPTIONS

BUILT TO MEET THE NORTH AMERICAN STANDARDS Our ovens meet the requirements of National Fire Protection Association Standard 86, Factory Mutual and OSHA. Additional safety devices can be added, when required, to accommodate certain applications involving solvents or hazardous locations.

CONTROL PANEL NEMA 4-12 control panel enclosing: Microprocessor based temperature and hi-limit controls, industrial motor starters and contactors, NEMA 4-12 pilot lights and switches and all the selected optional instrumentations, pre-wired and fully tested. CSA/CE approved.

SPECIFICATIONS

CABINET MODELS 800°F // 425°C

MODELS	INSIDE DIMENSIONS			OUTSIDE DIMENSIONS			HEATING POWER		APPROX. WEIGHT (lbs/kgs)
	W (in./cm)	D (in./cm)	H (in./cm)	W (in./cm)	D (in./cm)	H (in./cm)	800°F/425°C		
							ELECTRIC (kW)	GAS (Btu/hr)	
CO 036024036	36/91	24/60	36/91	76/193	83/210	73/185	24	120 000	1 370/621
CO 036036036	36/91	36/91	36/91	76/193	95/241	73/185	36	180 000	1 650/748
CO 048024048	48/121	24/60	48/121	88/223	83/210	85/215	36	180 000	2 040/925
CO 048048048	48/121	48/121	48/121	88/223	107/271	85/215	54	280 000	2 770/1 256
CO 060060060	60/152	60/152	60/152	100/254	119/302	97/246	72	360 000	3 750/1 700
CO 072048048	72/182	48/121	48/121	112/284	107/271	85/215	108	400 000	3 600/1 632

+ The gas version will be 12"/30 cm higher

+ Working height from the floor is 30"/76 cm for all sizes

+ Inside dimensions are from wall to wall, not working

+ Door: Single door, or double door if internal width exceeds 40"/101 cm

WALK-IN MODELS 800°F // 425°C

MODELS	INSIDE DIMENSIONS			OUTSIDE DIMENSIONS			HEATING POWER		APPROX. WEIGHT (lbs/kgs)
	W (in./cm)	D (in./cm)	H (in./cm)	W (in./cm)	D (in./cm)	H (in./cm)	800°F/425°C		
							ELECTRIC (kW)	GAS (Btu/hr)	
WO 036036060	36/91	36/91	60/152	76/193	95/241	67/170	54	260 000	1 920/870
WO 048036072	48/121	36/91	72/182	88/223	105/266	79/200	60	300 000	2 500/1 133
WO 048048072	48/121	48/121	72/182	88/223	107/271	79/200	72	350 000	2 860/1 297
WO 060072072	60/152	72/182	72/182	100/254	131/332	79/200	90	400 000	4 050/1 837
WO 060096072	60/152	96/243	72/182	100/254	155/393	79/200	108	1 000 000	4 860/2 204
WO 072084084	72/182	84/213	84/213	112/284	143/363	91/231	126	1 000 000	5 500/2 494
WO 072120072	72/182	120/304	72/182	112/284	179/454	79/200	144	1 000 000	6 200/2 812

+ The gas version will be 12"/30 cm higher, except for models W0060096072 and W0072120072 which are 18"/45 cm higher

+ Inside dimensions are from wall to wall, not working

+ Insulated door required for temperature uniformity above 300°F/150°C.

+ Door: single door, or double if internal width exceeds 40"/101 cm

+ Standard models shown here, other sizes available on request.

+ PYRADIA improves its products continuously and may change the specifications without notice.



Drop bottom solution oven

PYRADIA also designs and manufactures 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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