

## **DROP BOTTOM OVENS**

+ FOR ALUMINUM SOLUTION  
HEAT TREATING

## COMPLY WITH AEROSPACE AND MILITARY SPECIFICATIONS

PYRADIA has developed the most advanced line of drop bottom ovens for aluminum solution heat treating. These ovens incorporate state of the art insulation, control system and hoist mechanism which make them the most performing and reliable on the market.

### **MOST RELIABLE AND STURDY**

Pyradia's drop quench ovens are designed for an intensive and continuous use up to 1200°F/650°C. The loading and quenching systems are fully automated by PLC. The dual speed electro-mechanical winch system permits a controlled acceleration/deceleration of the load descent and has proven to be much more reliable and sturdy than the commonly used pneumatic systems. The insulation consists of 6"/15 cm of ceramic fiber modules. This high efficiency material assures minimum heat loss and heat storage for rapid heat cycling and energy economy. Contrary to layered blanket arrangement, ceramic blocks have a great resistance to high air velocity abrasion. This configuration is extra durable and requires very little if no maintenance.

### **BEST TEMPERATURES UNIFORMITY**

The low-density tubular heating elements are evenly distributed in the air ducts all around the working zone. The high efficiency fans located in the top plenum procure a powerful vertical airflow, which passes evenly through the working area. As a result, the temperature uniformity throughout the working area is within +/- 9°F (or +/- 5°F when required), at any given temperature, even during ramp-up. With these exceptional performances, our drop bottom ovens will meet the tighter specifications of the future. They can also be used for aluminum aging at lower temperatures.



*The sliding door oven shown is of standard configuration and was custombuilt to accommodate 7-feet/213 cm long parts. It is equipped with an optional motorized cart and the operator console is mounted on the oven. The quench tank is insulated and is equipped with a recirculation pump, immersion heater and chiller.*



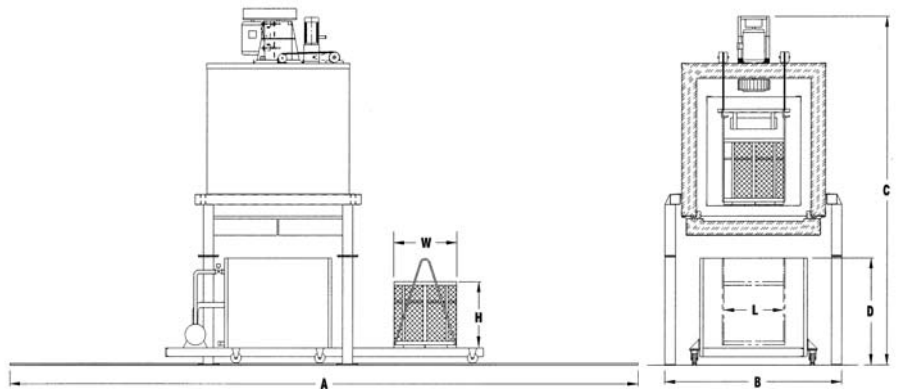
- + Electric or gas heating
- + Ceramic fiber block module insulation
- + Stainless steel air baffle
- + Sliding or swinging door
- + Electro-mechanical winch system
- + High volume recirculating stainless steel fan
- + Pneumatically operated doors
- + Tank mounted on mobile cart with rails
- + Heating elements and belt driven circulating fan mounted in protected chambers beside and above working area
- + Load capacity up to 2 000 lbs for standard models.
- + Temperature uniformity of +/- 9°F at any temperature (From 300°F/150°C to 1 200°F/650°C)
- + Quench in less than 7 seconds when equipped with a sliding door and in less than 3 seconds with the swinging doors

## FEATURES

The swinging door oven shown is a standard model EDQ078078062T. The tank has a recirculation pump and is mounted on a motorized cart.

- + Recirculation pump with high velocity injector
- + Immersion heater with thermostat control and insulated tank
- + Tank cooling system
- + Electrically driven cart with position sensors
- + Temperature uniformity of +/- 5°F/1°C

## OPTIONS



# SPECIFICATIONS

MODELS	DOOR TYPE	WORKING AREA			HEATING (kw)	A (inches/cm)	B (inches/cm)	C (inches/cm)	D (inches/cm)
		WIDTH (inches/cm)	LENGHT (inches/cm)	HEIGHT (inches/cm)					
EDQ 054054059C	Sliding	36/91	36/91	42/106	72	328/833	101/256	201/510	67/170
EDQ 054054059T	Swinging	36/91	36/91	42/106	72	346/878	102/259	203/515	67/170
EDQ 066066065C	Sliding	48/121	48/121	48/121	96	370/939	115/292	215/546	73/185
EDQ 066066065T	Swinging	48/121	48/121	48/121	96	388/985	116/294	219/556	73/185
EDQ 078078062C	Sliding	60/152	60/152	45/115	108	406/1031	127/322	211/235	70/177
EDQ 078078062T	Swinging	60/152	60/152	45/115	108	424/1076	128/325	216/548	70/177
EDQ 078162082C	Sliding	60/152	144/365	60/152	180	480/1219	211/535	260/660	102/259
EDQ 078162082T	Swinging	60/152	144/365	60/152	180	498/1264	212/538	264/670	102/259

- + Standard models shown here, other sizes available on request.
- + Gas models available
- + PYRADIA improves its products continuously and may change the specifications without notice.



Melting furnace

PYRADIA also designs and manufactures metal melting furnaces, heat treating furnaces, 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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