

### ◆ PRVO Paint Sample Drying Oven

For use in automotive, appliances,  
and other high volume paint applications



The PRVO Despatch Paint Sample Drying Oven is designed for small batch laboratory testing of paint finishes used in automotive and other high volume applications. The PRVO has the ability to test paints, including flammable solvent based paints, for temperature, ramp rates, curing time with gas or electric heat. Controls are conveniently located on the front of the oven, including the fresh air control. The high-volume recirculating vertical up

airflow with fixed louvers on the supply and return ducts provide uniform airflow to all parts in the work chamber for consistent temperature uniformity throughout the work chamber and reliable process results. A recirculating air filtration system is available as an option to prevent contamination of the paint finish.

This cabinet oven features an aluminized steel interior for maximum corrosion resistance and a polished stainless steel door cover with explosion relief latch. The oven has fully reinforced, unitized construction with three inches of high grade insulation to minimize heat loss. Unobstructed sidewalls permit side-by-side installation to help conserve lab floor space.



#### FEATURES AT A GLANCE

- ◆ All controls, including fresh air opening, are located on front of oven
- ◆ Unobstructed sidewalls to permit side-by-side installation
- ◆ Equipped to handle flammable solvent based paints
- ◆ Operating range: 100°F (66°C) to 500°F (260°C)
- ◆ High volume, recirculating vertical-up airflow to achieve consistent temperature uniformity throughout the work chamber
- ◆ Available with either a spark ignited proportioning gas heating or an electric heater with solid state relays
- ◆ Precise, single setpoint temperature control with digital readout
- ◆ Aluminized steel interior for maximum corrosion resistance and long service life
- ◆ Fixed louvers on supply and return ducts for uniform airflow in all parts of the work chamber
- ◆ Fully reinforced, unitized construction with 3" of high-grade insulation
- ◆ Polished stainless steel door cover with explosion relief latch

## SPECIFICATIONS

- ◆ Oven is capable of handling .066 GPH of MEK or equivalent solvent @ 400°F
- ◆ Work chamber: 24" w x 24" d x 36" h (12 cubic feet)
- ◆ External dimensions: 30" w x 35" d x 84" h
- ◆ 9.0 kW electric heater
- ◆ Operating range: 100°F (38°C) to 500°F (260°C)
- ◆ Recirculating motor/airflow capacity 1/3 HP/700 CFM vertical up airflow (based on operation on 60 hertz).
- ◆ Utilities: 480 volts, 3 phase, 60 hertz
- ◆ Partlow 1400+ single setpoint, three mode micro-processor based temperature control instrument with digital readout
- ◆ 1/3 HP/350 CFM forced exhaust assembly with airflow switch
- ◆ Solid state hi-limit overtemperature protection
- ◆ Mild steel exterior finished with textured light gray enamel finish
- ◆ Aluminized steel interior
- ◆ Fixed louvers on supply and return ducts
- ◆ Fully reinforced, unitized construction with 3" of high grade insulation
- ◆ Side swing door with explosion relief latch. Polished stainless steel door cover
- ◆ One steel shelf painted with high temperature aluminum paint is included

*Notes: Specifications are subject to change without notice. If the existing specifications differ from yours, ask about our customizing capabilities. Operating range is based on an ambient temperature of 68°F (20°C).*

## CUSTOM DESIGN FOR NEW PAINT FORMULATIONS

Designed in cooperation with a major automobile producer and international paint supplier, Despatch developed a custom, "chamber in chamber" paint sample testing tool. New paint formulations now require the added variables of NOx concentration, Dew point levels, volatile organic content control, air flow velocity control and air turn over rates.

The oven was created as a small lab tool that can accurately replicate the paint curing process in a full-size production facility. The outer chamber of the oven simulates the temperature of a full production line and the inner testing chamber represents the characteristics of the production oven where the actual paint curing takes place.

The oven boasts state-of-the-art software that allows the customer the capability to adjust the parameters of the oven in order to simulate the characteristics of any type of production oven (radiant, direct gas heated or electric convection) and to replicate the environmental conditions surrounding a specific production facility, given its geographic location and heating method.



## SERVICE AND TECHNICAL SUPPORT

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