

## HOT AIR OVEN



### Description

We customize ovens in various temperature ranges, material of construction and chamber dimensions. Maximum operating temperature range of these ovens are 200°C, 250°C and 300°C, which is controlled through microprocessor based PID controller, which displays both set value (SV) and process value (PV) and plays important role in temperature control. Forced air circulation is maintained using branded motor driven blower system. For heating, we use ceramic bead heating Elements or tubular air heaters for high temperature. Each unit is fitted with over temperature protection device (safety thermostat), which keeps your oven safe in case of controller failure.

Our hot air oven are having attractive design, rugged construction and easy to clean surface; therefore, internal chamber of our ovens is made of thick gauge of stainless steel (SS 304 / SS 316). Corners are



such designed that cleaning becomes an easy job for operator. Shelves are made of stainless steel wire mesh cable; these are removable in order to adjust the height level. Depending upon size of internal chamber quantity of shelves may vary from 2 to 7 or more. External cabinet is made of either powder coated mild steel, GI sheet or stainless steel as required. For easy mobility of large ovens, caster wheels with brake are fitted at the bottom.

We offer several optional accessories to fit in your hot air oven; such as, explosion proof heater, digital timer, PLC based HMI controller, RS485 computer interface, 21 CFR software, data logger and circular chart recorder, HEPA filter air inlet etc.

- External cabinet
- Glass wool insulation
- Inner Chamber
- Tubular Air heaters
- Motor driven blower
- Temperature sensor
- Tray slot
- PID temperature controller.
- Load indicator
- Main on/off switch
- Safety thermostat

### **Features and Benefits:**

- 50°C to 250°C temperature
- Stainless steel 304 grade inner chamber
- Uniform air circulation across chamber
- Fume ventilation points on both sides
- Corrosion resistant exterior
- Digital temperature controller cum indicator
- Stainless steel cable trays
- Over temperature protection.
- Excellent uniformity at high temperature

## Technical Specifications:

<b>Temperature range</b>	Ambient +5°C to 250°C (Optional 300°C)
<b>Temperature accuracy</b>	±1°C
<b>Temperature sensor</b>	PT100
<b>Temperature controller</b>	Microprocessor PID controller Display of SV & PV
<b>Construction</b>	Double walled
<b>Inner chamber</b>	Stainless steel Mild steel 304
<b>Exterior</b>	powder coated
<b>Insulation</b>	Glass Wool
<b>Shelves</b>	SS wire mesh cable trays (removable)
<b>Door</b>	Insulated solid door with clamp
<b>Door gasket</b>	Synthetic rubber gasket
<b>Air circulation</b>	Motor driven blower assembly
<b>Vent port</b>	1 or 2 depending upon chamber size
<b>Temperature variation and readability/set ability</b>	±5°C
<b>Safety</b>	Over temperature protection
<b>Circulation</b>	Aero dynamic internal design for achieving horizontal air circulation
<b>Optional</b>	<p>Up to 250°C and 300°C, Perforated inner walls Pass through (two side doors) Access ports for sensors &amp; data monitoring Digital timer 99 hours 99 minutes, Fan speed controller Programmable controller for ram &amp; soak Toughened glass window, Stainless steel exterior (GMP model)</p> <p>RS232 / RS485 interface, Data logger with USB interface HMI &amp; PLC automation, Caster wheels with lock, U Shaped Nichrome Air Heater</p>

## Standard size and Dimensions:

Model	Size (inch) (LDH)	Capacity (litres)
RDBL-28HAO	12" X 12" X 12"	28 Litres
RDBL -45HAO	14" X 14" X 14"	45 litres
RDBL -125HAO	18" X 18" X 18"	125 litres
RDBL -160HAO	18" X 18" X 24"	160 liters
RDBL -160HAO	24" X 24" X 24"	216 liters
RDBL -250HAO	18" X 24" X 36"	250 liters
RDBL -340HAO	24" X 24" X 36"	340 liters
RDBL -400HAO	28" X 28" X 40"	490 liters
RDBL -540HAO	60" X 75" X 120"	540 liters
RDBL -768HAO	31.5" X 31.5" X 47.2"	768 liters
RDBL -1000HAO	39.4" X 39.4" X 39.4"	1000 liters
RDBL -1000HAO	36" X 47.2" X 59"	1600 liters