

# Vacuum Furnaces



HINDHIVAC Vacuum oven available in Cylindrical / Cubical model for degassing, annealing and drying of components under vacuum.

Vacuum oven is fabricated out of Stainless Steel of SS 304 grade, with front door opening. Removable type loading trays to accommodate the components to be dried.

External/Internal heating type with tubular heaters with suitable insulation to attain uniform maximum temperature of 250° C inside the oven. Suitable controls for temperature measurement with thermocouple. Evacuation of the vacuum oven is by a two stage direct drive rotary vacuum pump capable of attaining 10<sup>-3</sup> M.bar at the pump inlet and in the range of 10<sup>-2</sup> M.bar in the oven in clean, cold, empty condition.

Suitable vacuum piping with metallic corrugated hose to connect the vacuum pump and the oven.

Vacuum gauge with sensor to measure the vacuum in the range of 0.5 M bar to 10<sup>-3</sup> m.bar and also Dial gauge to measure vacuum in the range of 760 mm Hg to 0 mm Hg.

## TECHNICAL SPECIFICATIONS

Parameters	Specification	
1. Configuration	Cylindrical	Cubical
2. Size	300 mm (dia) x 360 mm (L)	300 mm (W) x 300 mm (H) x 350 mm (D)
3. Heating arrangement	External heating by tubular heater	External heating by tubular heater
4. Temperature	Ambient to 250°C	Ambient to 250°C
5. Temperature uniformity	+10°C at 250°C	+15°C @ 250°C
6. Temperature measurement control	Digital PID controller with Cr-Al thermocouple	Digital PID controller with Cr-Al thermocouple
7. Heat insulation	Ceramic / glass wool	Ceramic / glass wool
8. Tray for loading components	Removable type tray (2 nos)	Removable type tray (2 nos)
9. Vacuum pumping system	Direct drive, 2 stage rotary vacuum pump of 15m <sup>3</sup> /hr displacement capacity	Direct drive, 2 stage rotary vacuum pump of 15m <sup>3</sup> /hr displacement capacity
10. Vacuum measurement	Pirani gauge with pirani sensor to measure vacuum in the range of 0.5 mbar to 10 <sup>-3</sup> mbar	Pirani gauge with pirani sensor to measure vacuum in the range of 0.5 mbar to 10 <sup>-3</sup> mbar

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