

**Product Name :**  
VACUUM OVEN

**Product Code :**  
SCIENTIFIC0022



### Description :

VACUUM OVEN

### Technical Specification :

**Vaccum oven** : A highly versatile compact oven with a large useful working area, it can be operated at atmospheric or reduced pressure by using reduced pressure, the oven enables heat sensitive materials to be dried at low temperature. Alternatively, more stable samples may be dried more rapidly at higher temperature, without fan circulation. This oven is also particularly useful for controlled atmosphere heating (e.g. curing of resins under nitrogen or reduced oxygen conditions) since the inner chamber is sealed. It may also be suitable for solvent removal work providing that adequate exhaust & ventilation are provided for the oven and room respectively.

Construction : The external case is tough sprayed epoxy based powder coated steel, to withstand the most demanding working conditions. The vacuum chamber is made of thick polished 304 grade stainless steel provided with one sheet, which carries a mercury in glass thermometer which can be viewed through the 150mm wide window by large area heaters strapped to its outer surface. Glass fiber insulation maintains safe, low outer case temperature. The chamber is closed by a 6mm thick toughened glass plate seating on to a silicone rubber gasket. The door closures are screw threaded catches which ensure an excellent vacuum tight sealing. Vacuum controls, Reliable inlet & exhaust valve is fitted. These are situated near the front corner of the oven for convenient connection to a vacuum pump. Vapour trap or exhaust. A vacuum gauge is fitted showing vacuum pulled from 0 to 760mm. Temperature control: Oven temperature is controlled by capillary type thermostat from ambient to 200°C with  $\pm 1^{\circ}\text{C}$ .

Size & depth of inner chamber : 12" x 12"
Vaccum Oven : Provided with electronic digital temperature controller with indicator instead of thermocouple control
Vaccum Oven : Provided with PID controller instead of thermocouple
Vaccum Oven : Provided with 304 grade stainless steel case body & with PID controller

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