

## Technical Specifications

### Vacuum Oven

**Application:** Vacuum Oven is highly suitable for drying plant materials due to its controlled environment and low-temperature drying process. Here are three key applications:  
**Preserving Bioactive Compounds:** Ideal for drying medicinal plant materials while preserving sensitive phytochemicals, such as essential oils, flavonoids, and alkaloids, by preventing degradation at lower temperatures.  
**Moisture Removal without Oxidation:** Effective for removing moisture from plant samples, minimizing oxidative damage, ensuring that the plant's chemical profile remains intact for research or pharmaceutical applications.  
**Drying Fragile Plant Tissues:** Ensures uniform drying of delicate plant tissues, reducing the risk of structural damage and maintaining the integrity of samples for further analysis or processing.

Specification	Requirement
Technical details of Vacuum Oven	Double walled construction fully made of stainless steel 304Q supplied with vacuum gauge, vacuum cock, toughened glass window. Temperature controlled by Microprocessor based Auto tune PID digital Temperature controller with PT 100 as sensor. Maximum vacuum 760mm of mercury (-30C). Supplied with S.S tray vacuum gauge, vacuum cock. 18"x18"x24", Cap. 60 Liter, 3 Shelves, 2250 Watts
Operation	Maximum Temperature: 200°C Temperature control: PID programmable temperature indicator Accuracy: ±10°C Indications: Main indicator and Output indicator Control Switches: Mains on, output on and output power selection VACUUM PUMP OIL FREE Model : 550 Hz Max Flow ( Lit/Min) : 45 Max. Vacuum ( Inch): 29" Max. press (PSIg) : 55 Approx weight (Kg) : 9 Motor HP: 1/3 Vacuum Indication: Analog/ Digital gauge Vacuum pump: Rotary vane oil less Timer: Special timer for vacuum system
Operation function:	Fixed temperature operation, Auto-start operation,
Safety features	Self-diagnosis functions (Sensor, Heater Triac, Automatic overheating prevention), independent overheating prevention, Key lock function, Electric leakage breaker
Operating manuals, service manuals, other manuals	Should provide:- <input type="checkbox"/> User, technical and maintenance manuals in English language <input type="checkbox"/> List of equipment and procedures required for local calibration and routine maintenance <input type="checkbox"/> Service and operation manuals to be provided advanced maintenance tasks documentation. if any.
Recommendations or Warnings	Any warning signs would be adequately displayed
Warranty	2(two) years after satisfactory installation and working excluding consumable parts and accessories.
Training	The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two

	scientific personnel operating the system till customer satisfaction
List of Spares and Accessories	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached
Stabilizer	Stabilizer as required for functioning of the equipment. Stabiliser price should be included in final price of oven
After sales service/ Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail
Compliance statement	The quote should also include a compliance statement vis-a-vis Specifications in a "tabular form" clearly stating the compliance and giving justification if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration