

NSW-144 High Temperature Oven

APPLICATION: NSW-144 High Temperature Oven are used in the lab to determine the moisture content of products and for drying glassware



FEATURES:

- External cabinet: Epoxy Powder Coated GI Sheets
- Mineral Wool insulation
- Inner chamber: AISI SS304
- Motor driven blower
- Temperature sensor
- Tray slots
- PID temperature controller
- Load indicator
- Mains on/off switch
- Safety thermostat

CONSTRUCTION

Triple-Walled Construction: Triple-walled construction, which means it consists of three layers of walls. This design helps in maintaining temperature stability and prevents heat loss to the surroundings.

Inner Walls of 304 Quality AISI SS304: The inner walls of the oven are made of 304 quality stainless steel (SS) which is corrosion-resistant, easy to clean, and can withstand high temperatures.



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Outer Walls of Epoxy Powder Coated GI Sheets: The outer walls are made of GI (Galvanized Iron) Powder-coated housing, This coating provides protection against corrosion and enhances the durability of the oven.

Facility for adjustable shelves: Removable Shelves: The oven comes with 3/4/5/6 removable SS Wire mesh shelves. These shelves can be taken out for easy loading and unloading of materials and for cleaning purposes.

DOOR : Powder coated Mild Steel

Lock: A fully insulated door with sturdy SS hinges with handle lock and gasket with perfect sealing is provided to open/ close the door.

HEATER

Flanged type heating elements are fitted heating elements used on sidewalls to maintain uniform condition inside the chamber.

AIR CIRCULATION

Forced Air Circulation: High Temperature Oven is designed with two forced air circulation fans with MCB to ensure temperature uniformity throughout the interior. This means that the hot air is circulated evenly, preventing temperature variations within the chamber. This is crucial for consistent heating and drying of samples.

Motorized blower on the top side of the chamber develops a unique airflow system which ensures maximum uniform temperature distribution inside the chamber. The unique airflow ensures that there is a quick recovery after the doors are opened.

SEPARATE PT 100 SENSOR

A separate PT 100 sensor is used to accurately measure the temperature inside the oven.

NSW-144, Hot Air Oven Unit:

Air Ventilators on Both Sides: Air ventilators on both sides of the oven are provided for improved air circulation. This helps in maintaining a uniform temperature throughout the oven's interior. Proper air circulation is crucial for consistent heating and drying of samples.

Temperature Homogeneity: High Temperature Oven is designed to maintain temperature homogeneity between the top and bottom shelves. Forced circulation of air plays a critical role in achieving this uniformity.

TEMPERATURE:

- **Temperature Range:** High Temperature Oven has a temperature range of 50°C to 300 °C with temperature setting accuracy is $\pm 3^{\circ}\text{C}$.
- **Microprocessor Controlled Digital Display:** High Temperature Oven is equipped with a microprocessor-controlled digital display. This type of control system offers precise and accurate temperature control. Users can set the desired temperature, and the microprocessor will regulate the oven to maintain it within the specified range.

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- **Temperature Display:** The temperature is displayed on an LED display.
- Controller shall be facility for password protection for user level and general controller functions
- **SAFETY ALARMS:** High Temperature Oven is equipped with safety alarms. Safety alarms are important for alerting users to any deviations from the set temperature or other potentially hazardous conditions.

Make	NSW INDIA
Model	NSW-144
Capacity	2050 Litre
Inner Size	1015X1320X1520 in mm
Temperature Range	50 °C to 300 °C
Working Range	150 °C
Controls	PID temprature controller, Display of SV & PV
Temp Display	LED Display
Sensor	PT-100
Heating Element	Nichrome wire / Kanthal A1
Safety device	Over temperature protection
Electric leakage breaker	Electric leakage breaker
Construction	Triple walled
Exterior Chamber	MS powder coated
Interior Chamber	304 stainless steels
Insulation	75 mm, Mineral Wool
Shelves	3, SS mesh cable trays (removable)
Door	Insulated solid door
Door gasket	High temperature silicone rubber gasket
Air circulation	Forced Air Circulation
Wheels	Castor Wheels
Safety	Over temperature thermostat
Power supply	230 V AC 50Hz 6.3AMP



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