



DELIVERING VALUES THROUGH SOLUTIONS

Oven (HB-ODS 60)



Features

Hot air oven

H Bio oven crafted from medical-grade stainless steel 304, represents a pinnacle of durability, functionality, and environmental sustainability in laboratory and industrial settings. Here's a detailed exploration of its features, construction, and applications, highlighting its versatility and advanced technology.

Construction and Material

Stainless steel 304 is renowned for its exceptional properties, making it an ideal choice for constructing both the internal chamber and external body of the oven. Its scratch resistance, hygienic qualities, and robustness ensure longevity and ease of maintenance. Moreover, stainless steel is fully recyclable, aligning with principles of environmental sustainability by minimizing the ecological footprint of production and disposal.

PID Microprocessor Controller

At the heart of the oven's operation is a PID microprocessor controller designed for user-friendly operation and precise temperature management. The large Dual LED Touch Module provides real-time monitoring of temperature and process time, enhancing control and accuracy. Key functions include adjustable alarm limits, acoustic alarms for immediate notification of deviations, a timer for precise process scheduling, and PID temperature control for maintaining stable conditions within the oven.

Safety and Reliability

The oven is equipped with comprehensive safety features to safeguard both personnel and samples. Acoustic and visual alarms alert operators to any anomalies, while automatic heating shutdown activates if the temperature deviates by 10°C above the set point, preventing overheating and potential damage to sensitive materials. The system meets EMC requirements (EN 50081-1) and adheres to stringent safety standards (IEC 61010-1), ensuring reliable performance in diverse operational environments.

Different Sizes and Configurations

Ovens are available in five different sizes: 20L, 35L, 60L, 104L and 256L catering to varying laboratory and industrial needs. Each size option maintains the same high standards of construction and functionality, offering flexibility in accommodating different volumes of samples or materials.

Technical Features

- **Temperature Range:** Standard models offer a temperature range up to 250°C, with the option to request configurations that extend to 300°C for specialized applications. This flexibility allows the oven to meet specific heat treatment requirements across various industries.
- **Digital Timer:** Capable of adjusting from 1 minute to 99.59 hours, the digital timer enables precise control over process durations, ensuring reproducibility and consistency in experimental or production processes.
- **Forced Air Circulation:** Models equipped with forced air circulation include an air distribution fan to achieve uniform temperature distribution throughout the chamber. This feature is essential for applications requiring consistent heat treatment of samples or materials.

Specification

Temperature variation (time)	+/-C	1.0
Temperature deviation	+/- %	1.0
Readability/Stability	°C	1.0
Temperature Range RT + 5	°C	to 2
Controller		PID
Display		LED
Over temperature indicator		Visual / Acoustic
Actual temperature displayed	°C	Yes
Digital Timer	Min/Hr	1- 99.59
Sensor Thermocouple		Yes
Door Gasket ,Silicore Rubber		Yes
Ventilation Slide		Yes
Shelves	St. /Max.	2/6
Shelf Dimensions W , D	mm	455 x 330
Nominal Power	w	1100
Nominal Voltage Range	V	85 -242
Frequency	Hz	50/60
Inlet Fuses	A	20
Exterior dimensions W. D. H	mm	490 X 470 X 700
Interior dimensions W, D, H	mm	390 X 350 X 430
Volume Working Chamber	Liter	60
Net Weight	Kg	35
Shipping Weight	Kg	40