INCUBATOR (BACTERILOGICAL)
ALS-INS067

DESCRIPTION

A bacteriological incubator is a laboratory instrument designed to provide a controlled environment for cultivating and growing microorganisms, such as bacteria, fungi, and other cells. It is widely used in microbiology, biotechnology, and clinical laboratories for research, testing, and quality control.

KEY FEATURES

- **Temperature Control**
  - Equipped with a feather touch temperature controller for high accuracy and uniformity.
  - Displays both Set Value (SV) and Process Value (PV).
  - Features low/ high-temperature alarms to alert operators of variations.
- **Heating and Air Circulation**
  - Heat is generated using resistance wire heaters or beaded heaters.
  - It is fitted with a motorized blower or axial fan for uniform temperature distribution across the chamber.
- **Construction**
  - External Cabinet: Made of thick gauge GI sheet, powder-coated and painted for corrosion resistance.
  - Inner Chamber: Fabricated from thick gauge 304 grade stainless steel sheets.
  - Insulation: High-density glass wool filling between the inner and external chambers minimizes heat loss and enhances energy efficiency.

CONTROLLER FEATURES

- **Feather touch temperature controller:** Equipped with a precise feather touch temperature controller, providing clear display of both Set Value (SV) and Process Value (PV) for accurate monitoring and control.
- **Over-Temperature Alarm:** Includes an over temperature alarm to alert users of any deviations, ensuring the protection of samples and maintaining safe operation within set parameters.
- **Auto-Tuning Function:** Features an auto-tuning capability, which optimizes temperature control settings automatically for consistent performance.
- **Timer Functionality:** The controller allows users to set operational timing, specifying how long the oven will be active, which enhances efficiency and conserves energy during scheduled use.
- **Password-Protected Temperature Settings:** Temperature adjustments are secured with password protection, ensuring that set parameters cannot be modified without authorization, adding a layer of security to critical settings.

TECHNICAL SPECIFICATION

Model	ALS-INS067BI
Temperature range	RT+5°C– 100°C
Temperature accuracy	±0.2°C at 37°C
Temperature controller	• Dual display feather touch controller • Display SV & PV • Auto-tuning feature
Temperature sensor	PT100
Inner chamber	SS 304
External cabinet	MS Powder-coated / GI sheet
Insulation	Glass wool
Door	• Insulated door • Mechanical latch/clamp • Glass window
Heaters	Resistance wire heaters (Air Fin Heaters optional)
Shelves	SS wire mesh (removable)/ Shelves with holes for small instruments
Air circulation	Motorized blower / Axial fan
Standard fittings	• Mains on/off switch • Load Indicator • Fan on/off switch
Power supply	220 V, 50Hz
Optional	• GMP construction (Inner & outer SS 304) • PLC + HMI controller w/ USB interface • 21 CFR Part 11 Software • Data logger w/ USB interface • Thermal printer • Inner chamber LED light

ORDERING INFORMATION

Model	Size (inches)	Volume	Shelves
ALS-28I	12" x 12" x 12"	28 L	2
ALS-45I	14" x 14" x 14"	45 L	2
ALS-95I	18" x 18" x 18"	95 L	3
ALS-127I	18" x 18" x 24"	127 L	3
ALS-226I	24" x 24" x 24"	226 L	3
ALS-250I	24" x 24" x 30"	250 L	4
ALS-340I	24" x 24" x 36"	340 L	5
ALS-500I	24" X 28" X 48"	500 L	7