

CE BOD incubators (Biochemical Oxygen Demand)



Product Description

KLABS BOD Incubators are designed for precise temperature-controlled incubation applications in microbiology, pharmaceutical, environmental, and research laboratories. The system ensures excellent temperature stability and uniformity under loaded conditions, making it ideal for BOD determination, microbial culture growth, storage applications, and low-temperature incubation processes. Equipped with a microcontroller-based PID control system, hermetically sealed Emerson compressor, stainless steel chamber, and audio-visual safety alarms, the incubator delivers reliable long-term performance with high operational stability and user safety.

Features

- Microcontroller PID Based Temperature Control
- Uniform Air Circulation System
- Hermetically Sealed Emerson Compressor
- Audio Visual Alarm System
- Stainless Steel Wire Mesh Trays
- Interior Illumination Lamp
- CFC Free Refrigeration System
- Glass Wool Insulation
- CE Approved PID Controller
- Adjustable Tray Arrangement
- Castor Wheel Movement
- Observation Acrylic Inner Door
- Over Temperature Safety Protection
- Compressor Delay Timer Protection



Construction Details

Component	Material / Description
Inner Chamber	Stainless Steel 304
Outer Body	Powder Coated Mild Steel
Insulation	CFC Free Glass Wool
Tray Material	Stainless Steel Wire Mesh
Cooling System	Emerson Compressor
Refrigerant	R134a

Applications/ Uses

- BOD Testing
- Microbiology Laboratories
- Pharmaceutical Laboratories
- Environmental Testing
- Research Institutes
- Culture Storage
- Seed Testing
- Food & Beverage Laboratories
- Quality Control Laboratories

Safety Features

- Dedicated Safety Controller with Separate Sensor
- Over Temperature Cut-Off Protection
- Under Temperature Alarm System
- Audio Visual Safety Alerts
- Compressor ON Delay Timer
- Additional Safety Thermostat



Standard Models

Model Number	Capacity (Liters)	Internal Size (WxDxH) mm	No. of Doors	No. of Trays
KT-BOI112L001	112 L	455 x 410 x 610	Single	2
KT-BOI171L001	171 L	505 x 415 x 805	Single	2
KT-BOI280L001	280 L	565 x 565 x 865	Single	2
KT-BOI336L001	336 L	650 x 580 x 900	Single	3
KT-BOI420L001	420 L	700 x 650 x 900	Single	3
KT-BOI642L001	642 L	700 x 700 x 1250	Single	3

Technical Specification

Parameter	Details
Temperature Range	10°C to 60°C
Temperature Accuracy	±0.2°C
Temperature Uniformity	2°C
Alarm	Audio-Visual Alarm
Controller Type	Microcontroller PID Controller
Insulation	3" Thick CFC Free Glass Wool
Refrigeration System	Emerson Compressor with R134a Refrigerant
Heating System	U-shaped SS Nichrome Wire Heaters
Observation Door	Unbreakable Acrylic Door
Chamber Material	SS 304 Inner Chamber
Outer Body	Mild Steel Powder Coated
Power Supply	230V AC Single Phase, 50Hz
Safety Features	Over/Under Temperature Protection, Delay Timer
Lighting	Interior Illumination
Trays	Stainless Steel Wire Mesh Trays

Microprocessor PID Controlled | Precision Temperature Control | ISO & CE Certified