Email : sales@laboratoryinstrumentindia.com

Product Name : Ultra-low Temperature Free:

Product Code : LBNY-0001-800005



Description :

Ultra-low Temperature Freezer

Technical Specification :

Ultra-low Temperature Freezer -86 °C

Ultra-low Temperature Freezer

Freezers have two independent refrigeration systems to provide the highest levels of sample security.

Dual Cooling System for a backup system to ensure the integrity of samples is not put at risk and cabinet design with enhanced insulation performance and storage capacity.

If one refrigeration system fails, the other refrigeration system activate to maintain a temperature of up to - 70°C. The Dual Cooling System is designated to securely store valuable biological samples.

It is consist of two individual compressors to provide a reliable -86°C Ultra-Low temperature environment. Dimensions

External dimensions (W x D x H): 670 x 882 x 1840 mm

Internal dimensions (W x D x H): 490x600x1230 mm

Volume: 360-400 Liter

Capacity (2 "" boxes):Usable storage capacity of 2 inches boxes when the original 3 trays installed Performance

Cooling performance (Air temperature measured at freezer center, ambient temperature 30 degree Celsius, no load): (-86 degree Celsius)

Temperature setting range: (-90 to -50 degree Celsius)

Temperature control range(Air temperature measured at freezer center, ambient temperature 30 degree Celsius, no load): (-86 to -50 degree Celsius)

Control Controller: Microprocessor, non-volatile memory Display: LCD touch panel Temperature sensor: Pt-1000 (platinum resistance 1000 ohms) Refrigeration Refrigeration system: Independent dual-cooling Compressor: 2x245 w Refrigerant: HFC Mixed(hydro fluorocarbons mixed) Insulation material: Combination of multiple high-performance vacuum panels with high-density foam insulation Insulation material thickness: 80mm Construction Exterior material: Painted Steel Interior material: Painted Steel Outdoor (quantity) 1 Outdoor lock: yes Inner door (quantity): 2 pieces Shelves: 3 Quantity of stainless steel 5kg Load per shelf: 50-60kg Load per total (load allowed for chamber interior-total shelves(3) and chamber bottom, excluding load on casters monitored on product): 36 Vacuum release port: 2(1 automatic, 1 manual) Access port: quantity : 3 Access port position: 3 locations(rear x 1,bottom x 2) Access port diameter: 17mm Casters: 4 quantity (2 leveling feet) Alarms Power failure: Visual Alarm, Buzzer Alarm & Remote Alarm High temperature: Visual Alarm, Buzzer Alarm & Remote Alarm Low temperature: Visual Alarm, Buzzer Alarm & Remote Alarm Filter: Filter less design Door open: Visual Alarm and Buzzer Alarm Noise level: 48-52 dB (Nominal value- background noise 20dB[A]) Dual Cooling System with enhanced insulation performance and storage capacity **Required** accessories Liquid CO2 backup (Quantity one) Upright freezer inventory racks for 2"" boxes Temperature recorder Continuous strip type-chart Communication system Digital interface (RS232C/RS485) for data acquisition system Ethernet interface(LAN) for data acquisition system Temperature: 5 ... 50 °C Relative humidity: 5 ... 80% (non-condensing) Altitude: Up to 3000 m above sea level Electrical 220 ±10 ACV, 50 Hz

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