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Product Name :
Automated Liquid Nitrogen tank Cell Bank

Product Code :
LBNY-0001-800001



Description :

Automated Liquid Nitrogen tank Cell Bank, Automated Liquid Nitrogen tank Cell Bank Equipments, Automated Liquid Nitrogen tank Cell Bank Tools, Automated Liquid Nitrogen tank Cell Bank Tool Kits, Automated Liquid Nitrogen tank Cell Bank Manufacturers, Automated Liquid Nitrogen tank Cell Bank Suppliers from India, China, Kenya

Lab Tender Suppliers Africa and Lab Equipment Africa Kenya, Uganda, Sudan, Algeria, Morocco, Angola, Ghana, Mozambique, Madagascar, South Africa, Ivory Coast, Cameroon, Niger, Burkina Faso, Mayotte, Sao Tome, Seychelles, Zambia, Chad, Somalia, Senegal, Zimbabwe, Guinea, Rwanda, Benin, Burundi, Tunisia, South Sudan, Mali, Malawi, Nigeria, Ethiopia, Egypt, DR Congo, Tanzania, Togo, Sierra Leone, Libya, Congo, Central African Republic, Liberia, Mauritania, Eritrea, Gambia, Botswana, Namibia, Gabon, Lesotho, Guinea Bissau, Equatorial Guinea, Mauritius, Eswatini, Djibouti, Reunion, Comoros, Cape Verde, Western Sahara

Technical Specification :

Automated Liquid Nitrogen tank Cell Bank
Equipped with vacuum technology and cervical mouth technology to enable extremely low liquid nitrogen evaporation loss rate
Temperature close to the neck need to reach -180° stable
Supported with two steps and partition rotating tray designed for easy and quick access to samples
Supported with strengthen structure to make the tank stable , vibration from nearby environment and be able to moved with samples inside easily
Supported with real-time liquid level monitoring system
Equipped with integrated control system (consisting of freezing chamber, microprocessor control, and printer - all

in one bench top unit), allowing multiple freezing profiles to be tailored to specific protocols
Freezer functionality is need to be supported with MS Windows-based controlled-rate freezing interface software that connects to PC and external inkjet printer
Applicable For storage of all type of biological samples and sample preparations with controlled rate freezing
All necessary accessories and consumables required for effective storage, sample preparation and operation monitoring need to be presented based on equipment design recommendation.
Temperature Range:50°C to -200°C
Cooling performance(°C) Up to -190°C
Performance
Liquid nitrogen capacity without Inventory (L) 300 -400 liters
Liquid nitrogen capacity at Vapor platform 40 to 50 liters
Static evaporation (L/day) NMT 1.0
Temperature Range: -50°C to -200°C
Cooling performance(°C) Up to -190°C
Blood bag storing capacities: 25ml x 600 to1200, 50ml x 300 to 800, 250ml x 200 to 500
Real-time liquid level and temperature monitoring System.
Liquid level monitoring system need to continuously monitor the temperature inside the container
The liquid level monitoring system need to support long time monitoring of samples storage.
It realizes reminding/alarming users to add liquid nitrogen timely
Display high/low temperature
Support with a sensor fault audible and visual alarm
Supported with a highly integrated system that monitors the liquid nitrogen tank level (0~700mm) and the tank mouth temperature (-200°C~150°C)
Safety, performance monitoring and handling
Equipped with temperature sensor and continuous temperature monitoring
Equipped with pressure gauge
Equipped with liquid nitrogen level indicator need to be equipped with transfer hoses
Supported with first safety valve, solenoid valves, second safety valve , pressure relief valve, fill and withdraw valve, pressure building valve and mobile castors
Ergonomic
Meet the operational needs of professional users and completely eliminate the inconvenience in use
Access Type: Front & Top Access
Chamber Volume: 30-40 Liters
Overall Height (mm): 500 – 1200
External Diameter (mm): 600-800
Net Weight Empty (kg): 100 -200 kg
Weight Liquid Full (kg): 250 -300
Standard Working Pressure (mpa): 0.04 -0.08
Highest Working Pressure (mpa): Not more than 0.09
Primary relief value Opening Pressure (mpa): 0.09 -0.1
Secondary Relief Value Opening Pressure(mpa): 0.12 - 0.18
Pressure Gauge Indicating Range (mpa): 0-0.28 resolution
Construction
Type stainless-steel with exterior powder-coat finish
Foamed in-place polyurethane insulation and Teflon that minimize heat break design and construction
Supported with bulb-style gaskets style to ensure tight door seal.
Storage capacity (Consumable /supplies/accessories depending on equipment manufacturer design)
Number of 1.2 & 2mL Vial: NLT 15000 Number of Racks (100 cell boxes): 12 to 14
Number of Racks (25 cell boxes): 4 to 6 Number of stages/shelves per rack: 12 to 15
Number of straws (capacity 0,5ml): 40000 -50000 Number of Canister (73mm): 50 to 60 Glove/Canister :
Straws/Goblet : 50 to 60" "Accessories:
Suitable size Flexible hoses
A complete offering of racks for Vials, Straws, Cell Box including vertical, square. The number of racks is offered

for full equipment storage capacity.

Vial and straw (0;25ml, 0.5 ml, 2mL, 4mL, 5mL, is offered for full equipment storage capacity of the individuals.

Canister is offered for full equipment storage capacity

Up to 50 °C and up to 95% humidity (non-condensing)

Electrical 220 ±10 ACV, 50 Hz

LN2 supply tank: 22 psi low pressure supply tank

Utility connection: suitable size SS flexible hose.



Laboratory Instrument India