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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  $-180^{\circ}$  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

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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

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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**