

Arkylla Mini Compact Vapor-Phase LN₂ Storage System

Designed for small-to-medium biobanks, cell therapy laboratories, and cell storage facilities, the Arkylla Mini compact vapor-phase LN₂ storage system integrates intelligent monitoring and automatic fill capabilities. Capacitive level sensors precisely control the LN₂ level, achieving a stable vapor-phase storage environment at -190 °C at the top of the vessel. Compared with large stainless steel systems, Arkylla Mini offers a smaller footprint, lighter weight, and lower LN₂ consumption, making it suitable for installation in standard laboratory environments without special floor reinforcement. Ideal for cell therapy R&D labs, autologous cell storage centers, and other small-to-medium scale applications. The unit supports flexible vapor-phase or liquid-phase storage to accommodate diverse biological sample management needs.



Key Features

- Vapor-phase storage mode prevents samples from direct contact with LN₂, preventing cross-contamination
- Top-rack temperature reaches as low as -190 °C when liquid level is maintained at 5 cm
- Capacitive level sensor delivers more precise liquid level measurement
- 10-inch touchscreen displays top/bottom temperatures, liquid level, and LN₂ consumption
- Automatic refill function reduces manual intervention
- Wi-Fi connectivity supports remote monitoring and cloud data-based storage
- Remote alarm (voice/SMS/WeChat/email) for timely response to anomalies
- Compact size and light weight, suitable for standard laboratory environments
- Supports 2 mL and 5 mL cryovials and 25 mL, 50 mL, and 250 mL blood bags
- Hot gas bypass design minimizes temperature fluctuations during filling
- Intelligent local and cloud-based data backup and export

Specifications

Model	Arkylla Mini 2400	Arkylla Mini 3600	Arkylla Mini 4800	Arkylla Mini 6000
2 mL Cryovial Capacity	2400	3600	4800	6000
5 mL Cryovial Capacity	972	1458	1944	2430
No. of Canisters	6	6	6	6
No. of Levels	4	6	8	10
LN ₂ Volume (L)	65	120	145	175
Static Evaporation Rate (L/day)	1.2	1.2	1.5	1.5
Neck Opening (mm)	216	216	216	216
Overall Height (mm)	785	890	1040	1090
External Diameter (mm)	678	678	678	678
Net Weight (kg)	51.7	57.2	65.2	66.5
Power Supply	100-240 V, 50/60 Hz			