Liquid Nitrogen Backup System

The liquid nitrogen backup system is designed to ensure the optimal safety of critical samples stored in ultra-low temperature freezers. When the freezer temperature rises above a preset value, the backup system injects an appropriate amount of liquid nitrogen into the freezer by controlling the electromagnetic valve. The system also alerts users to refll or replace the liquid nitrogen in a timely manner when the pressure is low.



Product Advantages

Compact design, small footprint, can be placed on top of ultra-low temperature freezers;
Temperature display, user-adjustable set temperature; Original imported ASCO brand electromagnetic valve specifcally for ultra-low temperatures from the USA.

Safety and Protection

Electromagnetic valve test button to check if the electromagnetic valve is functioning properly;
High and low temperature alarms, low battery alarms;
Rechargeable battery with 48 hours of working time;
Stop injecting liquid nitrogen when the door opens to protect users from liquid nitrogen harm (requires connection to ultra-low temperature refrigerator door switch).

User-friendly

Stainless steel structure, rust-resistant, easy to clean;
Standard metal hose (connecting the backup system and the cylinder) and liquid nitrogen injection pipe, no additional preparation required.

Product Model		MBS-1
Basic Information	Climate Type	N/ST/T
	Cooling Method	Direct Cooling
	Refrigerant	Liquid Nitrogen
Performance	Cooling Temperature (℃)	-86
	Temperature Range (℃)	-40~-86
Control	Temperature Control Method	Temperature Controller
	Display Method	LED
	Temperature Increment (℃)	1
Electricity	Power Supply	AC 100~240V，50/60Hz
	Power (W)	20
	Current (A)	0.25
Weight & Size	Net Weight/Gross Weight	10.2/13. 6kg 24.7/30lbs
	External Dimensions (W*D*H)	200*410*160(mm) 7.8*15.7*6.3(in)
	Packaging Dimensions (W*D*H)	370*530*330(mm) 14.6*20.9*13(in)
Function	High/Low Temperature Alarm	Standard Confguration
	Low Battery Alarm	Standard Confguration
	Sensor Fault Alarm	Standard Confguration
	Main Power Outage Alarm	Standard Confguration
	Electromagnetic Valve Open Indicator Light	Standard Confguration
	Main Power Supply Indicator Light	Standard Confguration
	Electromagnetic Valve Test Button	Standard Confguration
Accessories	Metal Hose	3 meters, standard confguration
	Injection Pipe	2 meters, standard confguration

