

LN₂ Backup System

LN₂ backup cooling system is an independent refrigeration system generally used for a -150°C mechanical cryo freezer. When there is a loss of power or the temperature of the freezer rises to the high alarm set point, the LN₂ backup system can be automatically activated to inject LN₂ into the chamber to maintain the freezer temperature. The backup system operates on a rechargeable battery when there is a loss of mains power.



Features

- Interlocked design to turn off the LN₂ Injection when the door is opened
- Protection circuit to prevent over-charging battery
- Light weight and portable design, suitable for installation on top of a freezer
- Alarm functions to include low battery and sensor error

Specifications

	Model	HBX-IIA
Technical Data	Cabinet Type	Horizontal
	Cooling Type	Direct cooling
	Refrigerant	LN ₂
Performance	Cooling performance (°C)	-135
	Temperature Range (°C)	-90~-135
Control	Controller	Thermostat
	Display	LED
Electrical Data	Power Supply (V/Hz)	220-240/50
		208-230/60
		115/60
Dimensions	Power (W)	20
		0.05
	Electrical Current (A)	15/17
		33.1/37.5
	Net/Gross Weight (approx)	360*305*445
		14.2*12.0*17.5
Alarms	Exterior Dimensions (W*D*H)	450*375*720
		17.7*14.8*28.3
	Packing Dimensions (W*D*H)	
Others	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
Alarms	Certification	CE/UL