

CryoExpress ONE

Ultra-low -86°C Portable Freezer



- -86 °C to 4 °C
- Precision temperature control ± 0.5 °C
- Internal volume 1L
- Built-in lithium battery
- NFC electronic lock
- VIP insulation panel, better insulation effect

The ultra-low temperature mobile safe is specially designed for medical scenarios. It is small in size, light in weight, and the lowest temperature can reach -86°C. It solves the industry's pain points in liquid nitrogen transportation and makes up for the shortage of liquid nitrogen transportation. The machine has a built-in large-capacity lithium battery, which can work for more than 1 hour without external power.

1L internal volume, temperature control accuracy $\pm 0.5^\circ\text{C}$, ultra-low temperature controlled mobile safe with adjustable temperature range from -86°C to 4°C , used to transport biological samples such as vaccines, bacterial viruses, blood, human organs, immune medical products and other goods that have extremely high temperature requirements.

Internal Dimensions



Safety guarantee

$\pm 0.5^\circ\text{C}$ temperature control accuracy of the whole box to avoid temperature fluctuation; NFC digital lock protects your samples in all aspects (this function is optional)



Cooling System

Advanced Stirling technology, using Stirling refrigerator as the core cooling source of ultra-low temperature, fast cooling and no fear of bumps and shakes



Intelligent temperature control

Sampling with laboratory grade PT100 thermo-sensor, ensuring temperature accuracy



Cabinet design

Integrated high pressure foam, VIP (vacuum insulation panel), double layer submersible door, double layer sealing ring, ensure ultra-low thermal leakage, the lowest temperature can reach -86°C . 1L internal volume



External Dimensions



Technical Specification

External dimensions	L270xW270xH450mm
Internal dimensions	L150xW134xH54.5mm
Capacity	1L
Weight	13.5kg
Maximum Power	100W
Operating Voltage	12-24V
Rated Power	80W
Temperature Range	-86°C to 4°C
Built-in Battery	≥ 1Hour
Optional External Battery	Additional 4 hour working time 400*46*140mm/3.5kgs





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