

Portable ULT Freezer

Product Application

Carebios portable ultra low temperature freezer uses military grade Stirling Cooling Technology, it's a small portable ULT cold storage. This kind of product focused on laboratory ultra-low temperature storage and transportation, Industrial extreme environment simulation test, Pharmaceutical cold chain transportation, Storage and transportation of biological samples, Cold chain science of life, Clinical medicine, Outdoor camping and Household ULT storage.



Features

1. Small size and light weight
2. Wide temperature range(+15°C to -86°C)
3. Access to a variety of power supplies
4. Precise temperature control(TEMP fluctuations within $\pm 1^{\circ}\text{C}$)
5. Utilizes 100% natural refrigerants to support sustainable environmentally-friendly operations





Technical Specification

Parameters	
Storage Volume	25L
Electric Power	100V AC to 240V AC; 50Hz,60Hz; 12V DC to 24V DC
Maximum Power(Current)	100W (0.5A@220V, 4.6A@24V)
Cooling Engine	Free Piston Stirling Cooler
Refrigerant	Helium (He)
Heat Transport System	Gravity Driven Thermosiphon
Temperature Range	+18°C to -86°C
Environmental Conditions	Non-corrosive, Non-flammable, Non-explosive, Altitude up to 2000m (Temperature 5°C to 35°C, maximum relative humidity 80%)
Performance Data	Ambient temperature is 25°C; Empty Cabinet Take 3.5 hour from 25°C to -80 °C
Temperature control capability	Target temperature $\pm 1^{\circ}\text{C}$
Steady State Energy	Ambient temperature is 25°C 75W
Insulation	High performance polyurethane foam
Noise	<55dB
Control Sensor	One RTD(PT100 Class B), precision ± 0.3
Security	Lockable lid
Warm and cold alarms	Setpoint $\pm 10^{\circ}\text{C}$
Defrost Method	Manual
Certification	CE/EMC, CE/LVD, CQC
Interior(L*W*D)	300*250*300mm
Exterior(L*W*D)	616*392*455mm
Net Weight, Empty	17.5kg
Shipping(L*W*D)	710*480*530mm
Shipping Weight	21kg