

Model ULT25NEU

Ultra-Low Temperature Storage Anywhere

Ideal for Clinical Storage of Temperature-Sensitive Medications and Treatments



Safeguards Temperature-Sensitive Treatments at any Patient Location

- ✓ Weighs Only 46 lbs. (21kg) – Great for Point of Use Storage
- ✓ Superior Stirling Engine Reliability
- ✓ Available with SenseAnywhere Wireless Temperature Monitoring and Logging
 - Track and log ULT25NEU temperature, ambient conditions, automatic data transfers to a secure Cloud
- ✓ Universal Input Power from Standard AC Mains to Vehicle-Based 12V DC
- ✓ Industry's Widest Temperature Range: -86°C to -20°C
- ✓ Storage Capacity for 18 Standard 2" Boxes

ULT25NEU Portable Freezer, .9 cu.ft. (25 liters).
A one year warranty for parts and labor is standard worldwide.

The benefits of the ULT25NEU reach all levels in the clinical and laboratory environment

- Lightweight, small footprint – perfect for point of use storage in labs and clinical sites
- Optional wireless temperature transmissions make monitoring samples easy
- Plugs into any type AC outlet, as well as 12V DC power for use anywhere
- Ultra-low power consumption and 100% natural, SNAP-compliant refrigerants
- Low maintenance needs – simply clean filter for optimum performance



STIRLING
ULTRACOLD



Model ULT25NEU Specifications

Application, Rating and Electric Data

Application	Storage of general (non-flammable) laboratory materials
Storage Volume	25 liters (0.9 cu.ft.)
Storage Capacity	18 standard 2" boxes
Temperature Range	-86°C to -20°C @ 32°C (90°F) ambient, uniformity -3°C at -80°C top to bottom, adjustable in 1°C increments Presets for -86°C (default), -40°C and -20°C
Electric Power	100V to 240VAC at either 50 or 60Hz or 12V DC from mobile source
Maximum Power (Current)	280 watts (4 amps @ 120VAC, 2 amps @ 240VAC, 15 amps @ 12V DC)
Auto-Voltage Capability	100V to 240V, 50 or 60 Hz
Electric Supply Rating	15 amp or greater grounded circuit
Power Plugs Available Separately	NEMA 5-15P plug requires standard NEMA 5-15R receptacle (120V); Length: 2261 mm (89 in.), or NEMA 5-15P plug requires standard NEMA 5-15R receptacle (120V); Length: 3048 mm (120 in.), or NEMA 6-15P plug requires standard NEMA 6-15R receptacle (240V); Length: 2997 mm (118 in.) <i>Specify when ordering.</i>
Certification/Agency Listing	CE, cTÜVus
Noise	Advanced noise abatement, <45 dB(A) at 1 meter
Indoor/Outdoor Use	Indoor use only
Environmental Conditions	Non-corrosive, non-flammable, non-explosive, indoor use, altitude up to 2,000m, temperature 5°C to 40°C (41°F to 104°F), maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% at 40°C
Controller	
Controller Type	Microprocessor controls
Security	Lockable lid
Warm and Cold Alarms	Setpoint ± 10°C
Control Sensor	One RTD (PT100 Class A)
Dry Contacts	Optional
Internet Connectivity	Optional SenseAnywhere wireless temperature monitoring and logging

Refrigeration System

Cooling Engine	Helium charged free-piston Stirling engine with continuous modulation
Heat Transport System	Gravity driven thermosiphon
Refrigerant	R-170 (Ethane) 10-12 g
Evaporator	Cold wall (inner liner)
Heat Rejection	Finned heat exchanger with forced air cooling Air inlet: Right front side of unit Air outlet: Below control panel on front of mechanical compartment
Defrost Method	Manual

Performance Data

Steady State Energy Use at 25°C Ambient	2.8 kWh/day (average power 118 watts) at -80°C (Empty Cabinet)
Pull-Down from 25°C Ambient	4 hours at -80°C (Empty Cabinet)
Recovery from 1 minute lid opening	20 minutes to -80°C (Empty Cabinet)
Warm-Up Profile	30 minutes to -60°C (Empty Cabinet) 70 minutes to -40°C (Empty Cabinet)
Heat Dissipation	403 BTU/h (load to HVAC) (Empty Cabinet)

Dimensions and Construction

Interior (L x W x D)	332 x 221 x 340 mm (13.1 x 8.7 x 13.4 in.)
Exterior (L x W x D)	692.5 x 350 x 460 mm (27.3 x 13.8 x 18.1 in.)
Net Weight, Empty	21 kg (46 lbs.), nominal
Shipping Dimensions (L x W x D)	762 x 457 x 559 mm (30 x 18 x 22 in.)
Shipping Weight	24 kg (53 lbs.)
Insulation	High performance vacuum insulated panels and polyurethane foam
Gasket Heater	User programmable duty cycle
Options	Plastic Utility Bin, AC Power Cords, Mobile Power DC Cord, Sub-Lid, Certificate of Calibration, Temperature Mapping Validation, Remote Alarm Contacts



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