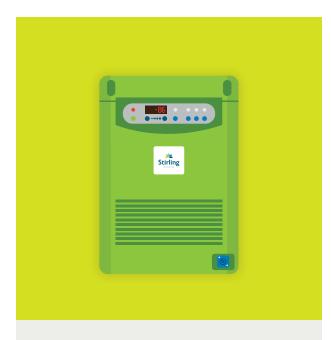
MODEL ULT25NEU

Portable Ultra-Low Temperature Storage







Safeguards temperature-sensitive medical treatments regardless of patient location

- Lightweight, portable design makes this a perfect appliance for clinical point-of-use cold storage
- Superior Stirling engine reliability scales down to a remarkably small footprint and weight (21 kg, 46 lbs), without sacrificing performance
- Provides industry's widest ultra-low temperature range of -20°C to -86°C
- Adaptable power input provides operational flexibility between standard AC main outlets, worldwide, as well as vehicle-based 12V DC power or external battery devices
- Utilizes 100% natural refrigerants to support sustainable, environmentally-friendly operations
- Optional SenseAnywhere wireless temperature logging allows for remote monitoring via cloud-based software
- Ample storage capacity for thousands of 2mL vials within a surprising compact frame

Uniquely portable and reliable ultra-low ULT25NEU storage benefits scientists, clinicians and patients alike

- Safely preserve and deliver biologic drugs and vaccines at the point of patient care, anywhere in the world
- Easily deploy long-term storage of viable biological materials, with low power use in any form - battery, 12V vehicle power, or solar panel
- Collect temperature-sensitive samples and specimens at remote trial or field locations
- Remain confident in performance with a one-year warranty for parts and service in the U.S. and Canada

Industry's widest ULT temperature range -20°C to -86°C

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Model ULT25NEU Specifications

Application	Storage of general (non-flammable) laboratory materials
Storage Volume	25 liters (0.9 cu.ft.)
Storage Capacity	18 standard 2" boxes
Temperature Range	-20°C to -86°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	NEMA 5-15P plug requires standard NEMA 5-15R receptacle (120V); Length: 2261 mm (89 in.), or
	NEMA 5-15P plug requires standard NEMA 15R receptable (120V); Length: 3048 mm (120 in.), or
	NEMA 6-15P plug requires standard NEMA 6-15R receptacle (240V); Length: 2997 mm (118 in.) Specify when ordering
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

REFR	IGERAT	ION S	SYSTEM

Cooling Engine	Helium charged free-piston Stirling engine with continuous modulation
Heat Transport System	Gravity driven thermosiphon
Refrigerant	R-170 (Ethane) 10 - 12 grams
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 of front 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 to -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 (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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ULT25NEU Ultra-Low Temperature Freezer

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