VERTRIEB DURCH:

RIEGER
Industrievertretungen GmbH

Ihr Anbieter für Geräte im Bereich Labor, Mikrobiologie und Industrie.

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Model SU**105**UE
Compact Ultra-Low Freezer

Ideal for Clinical Trials

Undercounter. Benchtop. Stackable.

The Industry's Best Performance

- ✓ *Lowest Energy Consumption, <4 kWh/day @ -80°C*
- ✓ *Lowest Shipping Costs*
- ✓ *Smallest Footprint in its Class*
- ✓ *Plugs into Any Outlet*
- ✓ *Wide Temperature Range, -86°C to -20°C*
- ✓ *Industry's-Best Warranty*

Two Model SU105UE Benchtop Freezers, 3.7 cu.ft. (105 liters). A seven year engine warranty, two year freezer parts warranty is standard worldwide.

Shown with optional stacking adapter and racks.

The benefits of Stirling Ultracold freezers reach all levels of the clinical trial.

- Store more samples within a smaller footprint
- Can plug into any outlet, eliminating the cost of converting an outlet to 240V
- Lower operating and maintenance costs
- Industry-best warranty – seven years engine protection, two years parts coverage
- 100% Natural refrigerants

STIRLING
ULTRACOLD

Model SU105UE Specifications

Application, Rating and Electric Data

Application	Storage of general (non-flammable) laboratory materials
Storage Volume	105 liters (3.7 cu.ft.)
Storage Capacity	72 standard 2" boxes in drawer racks, optional, available separately
Temperature Range	-86°C to -20°C @ 32°C (90°F) ambient, adjustable to 1°C increments
Electric Power*	Universal power system, 120V or 240V single phase 50 or 60Hz
Maximum Power (Current)	300 watts (3 amps @120V, 1.5 amps @240V)
Auto-Voltage Capability	85V to 264V, 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: 2260 mm (89 in.) or NEMA 6-15P plug requires standard NEMA 6-15R receptacle (240V); Length: 3000 mm (118 in.) *Others available upon request. Specify when ordering*
Certification/Agency Listing	CE
Noise	Advanced noise abatement, <60 dB(A) at 1 meter
Indoor/Outdoor Use	Indoor use only
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	+5°C to +35°C (41°F to 95°F)
Useful Life	12 years

Controller

Interface	Swift™ graphic user touchscreen interface
Controller Type	Microprocessor with touchscreen input and display
Security	Lockable door Optional PIN requirement built in
Warm and Cold Alarms	Fully adjustable
Control Sensor	Two RTDs (PT100 Class A)
Event Log	All alarms, door openings
Dry Contacts	Normally closed, normally open, common; activated by power outage or any alarm condition
Temperature Log	30 days available graphically
Battery Back-up	12 hour control battery back-up for touch-screen (Panasonic 6V Lead Acid Battery)

Refrigeration System

Cooling Engine	Humm™ helium charged free-piston Stirling engine with continuous modulation
Heat Transport System	Gravity driven thermosiphon
Refrigerant	R-170 (Ethane) 30 - 33 grams
Evaporator	Cold wall (inner liner)
Heat Rejection	Finned heat exchanger with forced air cooling Air inlet: Above freezer door below mechanical compartment Air outlet: Underneath of rear right corner bottom
Defrost Method	Manual

Performance Data, Empty Cabinet

Steady State Energy Use	< 4 kWh/day at -80°C Setpoint
Heat Dissipation	563 BTU/h (load to HVAC) at -80°C Setpoint
Pull-Down from 25°C Ambient	9 hours to -80°C
Recovery from 1 minute door opening	1.7 hours to -80°C
Warm-Up Profile, -80°C	2 hours to -60°C 5.2 hours to -40°C 10 hours to -20°C

Dimensions and Construction

Interior (H x D x W)	533 x 432 x 457 mm | (21 x 17 x 18 in.)
Exterior (H x D x W)	864 x 711 x 686 mm | (34 x 28 x 27 in.)
Net Weight, Empty	99 kg (220 lbs.)
Shipping (H x D x W)	787.4 x 787.4 x 1041.4 mm | (31 x 31 x 41 in.)
Shipping Weight	121 kg (266 lbs.), standard packaging
Insulation	High performance vacuum insulated panels and polyurethane foam using the Ecomate® environmentally friendly blowing agent
Gasket heater	User programmable duty cycle
Shelves	1 stainless steel, fixed position (removable)
Options	Chart recorder, international plugs

**The freezer operates on nominal 120V or 240V, 50 or 60Hz AC, over a wide voltage range from 85V to 264V. There is no need for special wiring or a 20 amp breaker on a 120V line. Heat rejection is minimal. The cooling air is drawn in over the top of the door and warm air exits at the right rear of the cabinet.*

STIRLING ULTRACOLD

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CE

Humm™

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