

ULT-Freezer Performance Data Sheet



Capacity

Storage volume	360 L (12.7 ft ³)
Number of compartments	3
Adjustable shelves	Yes
Racks per shelf	3
Racks per freezer	9
Box capacity	50 mm (2 in) box 252
	75 mm (3 in) box 180
per freezer	100 mm (4 in) box 108
Sample capacity	50 mm (2 in) box 25,200
	75 mm (3 in) box 18,000
per freezer	100 mm (4 in) box 10,800
Temperature rating	-50 °C to -86 °C

Technical Specifications: Innova® U360

Intended use	<ul style="list-style-type: none"> > Cold storage of standard laboratory materials > Indoor use only, between 15 and 32 °C > Altitude up to 2000 m > Non-corrosive, non-flammable, non-explosive environment
Environmental conditions	<ul style="list-style-type: none"> > Good air ventilation required > Maximum relative humidity 80 % for temperatures up to 31 °C > No mains/power supply voltage fluctuations
Electrical rating (1 phase)	230 V/50 Hz
Current rating	6.5 A
Agency listing	<ul style="list-style-type: none"> > WEEE > All components tested to CE specifications

Dimensions and Construction

Internal dimensions (H x W x D)	1365 x 440 x 615 mm (53.7 x 17.3 x 24.2 in)
External dimensions* (H x W x D)	1950 x 670 x 867 mm (76.8 x 26.4 x 34.1 in)
Interior	Stainless steel grade 304 2B
Insulation	Polyurethane foam
Shipping weight	240 kg (529 lbs)
Casters/level legs	Standard

User Interface

Alarms	Adjustable high/low temperature, power fail, battery low, filter clean, fault
Password protection (freezer settings)	Yes
Remote alarm port	Standard
RS-485 interface	Optional
Power switch	Secured by lockable plate
Lock	Standard
Temperature control	Microprocessor
Cabinet control probe	PT 100

Refrigeration System Specifications

Refrigeration system	2 stage cascade cooling system
Compressors	Commercially available, heavy duty compressors
Defrost method	Manual
Refrigerant charge	High stage: R404a Low stage: R508b
Condensing method	Air-cooled
Expansion device	Capillary tubes
Evaporator type	Cold wall

*To allow for handles and hinges, add 80 mm to width.

Typical Performance Characteristics at 22 °C +/- 1 (Ambient Temperature)

Pull down time (freezer empty, from ambient to -85 °C)	5 h 35 min
Power consumption (freezer set to -80 °C)	10.7 kWh/day
Heat output	623 W, 2,126 BTU/h
Warm up time (freezer 2/3 full, from -85 °C to 0 °C)	28 h 54 min
Noise level	54.0 dB
Mains power supply	6.5 A

Technical specifications subject to change

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