

Application, Rating, & Electrical Data

Application	ULT freezer
Storage Volume (L/Cu.Ft)	108/3.81
Temperature Range	-40°C to -86°C
Default Set Point	-81°C
Power	115/60Hz 220-240V~ 50/60Hz
Current	8A 4.9A
Power Cord Length	1.7m
Certification	CE&UL
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C-32°C

Refrigeration

Refrigeration System	Self-cascade
Compressor	Hermetic, fixed speed
Condenser Type	Air cooling
Expansion Device	Capillary tube
Evaporator Type	Built-in
Defrost Method	Manual defrosting
Refrigerant	Mix refrigerant

Controller / Configuration Settings

Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, password protected settings
Control Sensor	PT1000, stainless steel
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB
Battery Back-up	Yes, 52 hr display and alarm back-up Rechargeable 12V, lead acid

Performance Characteristics (normal operating conditions)

Uniformity (°C)	±5.0
Recovery to -75°C after 1 min door opening (min)	17.5
Energy consumption (kWh/day)	CE 4.6 UL 5.2
Noise emission (dB)	CE 45 UL 46
Heat rejection (BTU/hr)	1400
Pull-down time to -81°C (min)	CE 180 UL 210

Typical Temperature Map

	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-78.30	-78.60	-78.70	-78.10	-77.00	-77.40	-77.60	-77.40	-77.80
Max	-84.10	-84.30	-84.40	-83.70	-80.60	-81.10	-81.50	-81.30	-81.70
Min	-81.18	-81.49	-81.56	-80.89	-78.71	-79.15	-79.47	-79.27	-79.52

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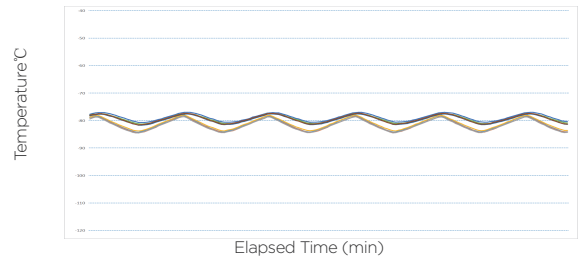


Dimensions and Construction

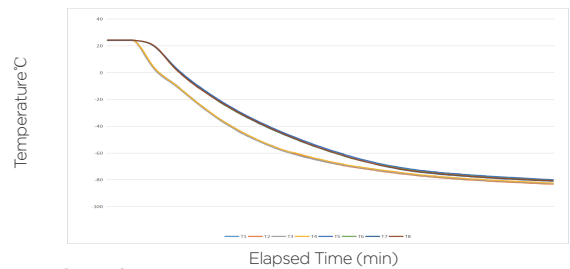
Interior (w x h x d)mm	440*435*590 mm
Exterior (w x h x d)	955*675*815 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	1 49 kg max capacity
Wheels	N
Net Weight	113 kg
Gross Weight	141 kg

All performance data from 108L ULT freezer, 25 ambient, -81°C

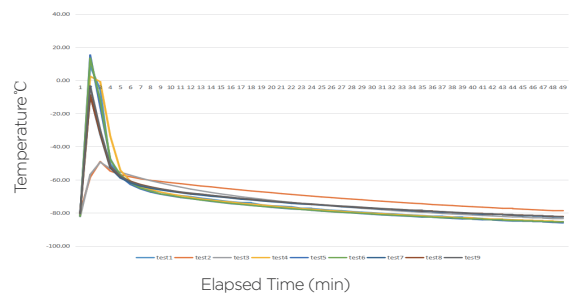
Uniformity



Cooling Speed



DOR 1 minute



Temperature recover curve

