

Application, Rating, & Electrical Data

Application	ULT freezer
Storage Volume (L)	568
Temperature Range	-40°C to -86°C
Default Set Point	-81°C
Power	220-240V- 50/60Hz
Current	8.2A
Power Cord Length	1.7m
Certification	CE
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C-32°C

Refrigeration

Refrigeration System	Dual cooling
Compressor	Hermetic, variable 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	Touch screen
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, 24 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)	59
Temperature fluctuation (°C)	<6.6
Energy consumption (kWh/day)	9.3
Noise emission (dB)	65
Heat rejection (BTU/hr)	5652
Pull-down time to -81°C (min)	150

Typical Temperature Map

	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-81.39	-81.35	-82.76	-82.28	-82.77	-82.42	-81.39	-81.98	-82.24
Max	-78.60	-78.70	-80.80	-80.00	-80.60	-80.30	-80.00	-80.80	-81.00
Min	-83.50	-83.50	-84.60	-84.20	-84.50	-84.20	-82.80	-83.20	-83.50

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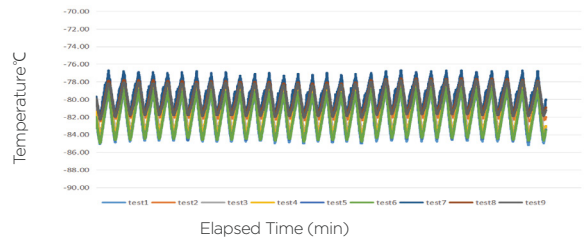


Dimensions and Construction

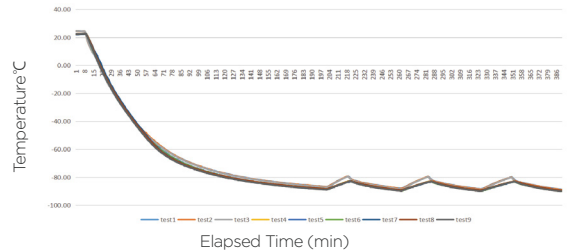
Interior (w x h x d)mm	595*720*1310 mm
Exterior (w x h x d)	885*995*1980 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	3 49 kg max capacity
Wheels	4
Net Weight	286 kg
Gross Weight	342 kg

All performance data from 568L ULT freezer, 25 ambient, -81°C

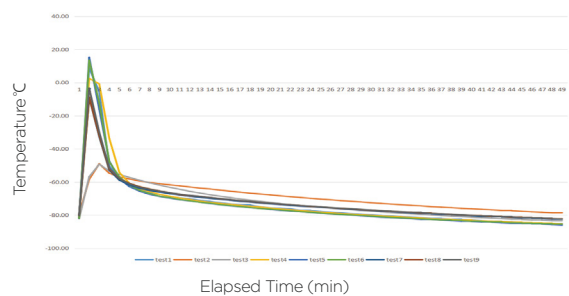
Uniformity



Cooling Speed



DOR 1 minute



Temperature recover curve

