

Application, Rating, & Electrical Data

Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	518/18.29
Temperature Range	-10°C ~ -25°C
Default Set Point	-25°C
Power	115~V/60Hz 220-240~V/50Hz 220-240~V/60Hz
Current	5.1A 5A 4A
Power Cord Length	1.7m
Certification	CE/UL/FDA
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C-32°C

Refrigeration

Refrigeration System	Two independent cooling system
Compressor	Hermetic, fixed frequency
Condenser Type	Built in + micro channel condenser
Expansion Device	Capillary tube
Evaporator Type	Shelf evaporator
Defrost Method	Manual defrost
Refrigerant	R290

Controller / Configuration Settings

Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, protected settings
Control Sensor	NTC
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes, each freezer chamber can be set separately
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes, each freezer chamber has Individual Alarm
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB

Performance Characteristics (normal operating conditions)

Uniformity (°C)	≤3°C
Energy consumption (kWh/day)	2.1
Noise emission (dB)	65 54 58
Pull-down time to -25°C (min)	120 180 120

Typical Temperature Map

Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-24.59	-24.89	-25.51	-26.29	-26.62	-25.87	-26.12	-26.65	-24.78
Max	-22.30	-22.52	-22.85	-23.63	-23.68	-23.43	-23.63	-24.11	-23.84
Min	-26.50	-26.69	-27.47	-27.94	-28.25	-27.61	-28.33	-28.50	-27.23

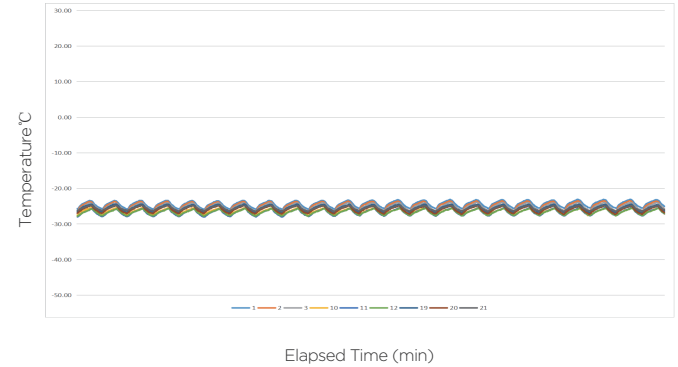
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Dimensions and Construction

Interior (w*d*h)	Up: 680*620*650 mm Down: 680*620*650 mm
Exterior (w*d*h)	866*811*1920 mm
Access Port	1 access port for each freezer chamber (25 mm diameter)
Drawers	Up: 6 Down: 6
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	149kg
Gross Weight	170 kg

All performance data from 518L freezer, 25 ambient, -25°C

Uniformity



Cooling Speed

