



Technical Data Sheet Lab Grade Freezer Model: FLF120 / Upright

Application, Rating, and Electrical Data

Application	Precision temperature storage for biopharmaceutical and life science research applications
Storage Volume	20.2 cu ft (572 L)
Temperature Range	-15° to -35°C
Set Point	-30°C
Electrical Power	115V 60Hz 220-240V 50/60Hz
Maximum Current	6.6A 3.1A
Facility Supply Rating	Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 110-120V AC: 15 A (minimum) 220-240V AC: 10 A (minimum)
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade 115V 60Hz, 8 to 10 ft (2.4-3.0m) Inquire about additional plug/cord options
Certification/Agency Listing	QPS (Certified to UL and CSA Standards) IEC/UL61010-2-011: 2016 IEC 61010-1:2010, AMD1:2016 ETL certified to NSF/ANSI 456 Vaccine Storage Standard*
Indoor/Outdoor Use	Indoor use only, non-residential
Energy Star	Yes, ENERGY STAR® Certified High Performance Freezer
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	+15°C to +32°C +59°F to +90°F

Performance Characteristics (normal operating conditions)

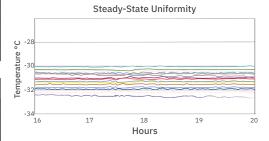
Uniformity °C	+/-2.0
Recovery to -29.5°C after 1 min door opening min	20
Stability °C	0.3
Energy Consumption kWh/day	8.60
Noise emission dB	52
Heat rejection BTU/hr	2318
Pull-down time to -30°C min	59

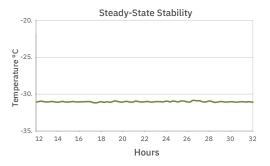
All performance data from 20 cu ft freezer, 25°C ambient, -30.0°C



Refrigeration VCC compressor-based, forced-air hydrocarbon **Refrigeration System** Compressor Hermetic, variable speed (VCC). Rated speed range: 1600-5000 rpm Air-cooled fin and tube, sealed Condenser Type Expansion Device Cap tube Evaporator Type Direct expansion with forced-air fin and tube Defrost Method Automatic Refrigerant R290, Propane, EU F-Gas and EPA SNAP compliant

Controller / Configuration Settings		
User Interface	LED digital display, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor with alarm/monitor	
Security	Lockable door, PIN access via optional access control	
Control Sensor	RTD, stainless steel	
Communication Port	Remote alarm contacts	
Power Failure Alarm	Yes	
High/Low Alarm	Yes, fully adjustable	
Door Ajar Alarm	Yes	
Min/Max Temperature	Yes, display and reset	
Temperature Monitoring	Yes, 4 oz bottle with screw cap	
Battery Back-up	Yes, 9 volt, non-rechargeable, lithium	





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Dimensions and Construction		
Interior (w x h x d)	24.7 x 58.1 x 24 in 628 x 1476 x 609 mm	
Exterior (w x h x d)	29 x 80.3 x 28.4 in 737 x 2039 x 720 mm	
Overall Exterior (w x h x d)	30.2 x 80.3 x 32.6 in 766 x 2039 x 827 mm *Includes handle, electrical box and top cover	
Insulation	Sustainable, US EPA and SNAP approved foam	
Exterior/Interior Finish	Bacteria-resistant powder-coating	
Door	1, solid, right-hinged	
Access Port	Top Access Port- for external monitoring probe(s) (0.75 in 19 mm diameter)	
Interior Storage (h x d)	4 ventilated shelves 22.5 x 21.9 in 572 x 557 mm	
Casters	Yes, swivel-locking	
Net Weight	397 lb 181 kg	
Shipping Weight	487 lb 222 kg	
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access	
Available Accessories	Remote alarms, remote lock adapter kit, floor and wall seismic bracket kits, stacking kit, pedestal, storage trays, locking interior drawers, certificate of calibration, temperature validation, validation guide (IQ/OQ), extended warranty	
Certificate of Calibration	Yes, available as an option, generated with an ISO 17025 certified, NIST traceable thermometer (Certificate of Calibration is included with the NSF/ANSI 456 Vaccine Storage Certification option)	
Warranty	3 years compressor, 2 years parts, 1 year labor (Outside US/Canada: Please consult with your local representative for labor warranty information.)	

