



Technical Data Sheet Lab Grade Freezer Model: FLF120 / Upright

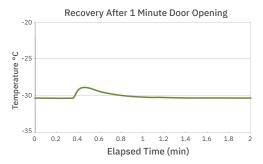
Application, Rating, and Electrical Data		
Application	Precision temperature storage for biopharmaceutical and life science research applications	
Storage Volume	20.2 cu ft (572 L)	
Temperature Range	-15° to -35°C	
Set Point	-30°C	
Electrical Power	115V 60Hz 220-240V 50/60Hz	
Maximum Current	6.6A 3.1A	
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	

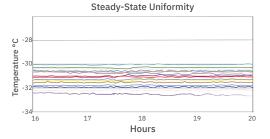
Refrigeration	
Refrigeration System	VCC compressor-based, forced-air hydrocarbon
Compressor	Hermetic, variable speed (VCC). Rated speed range: 1600-5000 rpm
Condenser Type	Air-cooled fin and tube, sealed
Expansion Device	Cap tube
Evaporator Type	Direct expansion with forced-air fin and tube
Defrost Method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

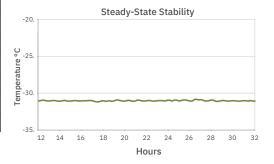
Controller / Configuration Settings		
User Interface	LED digital display, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor with alarm/monitor	
Security	Lockable door, PIN access via optional access control	
Control Sensor	RTD, stainless steel	
Communication Port	Remote alarm contacts	
Power 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	

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	

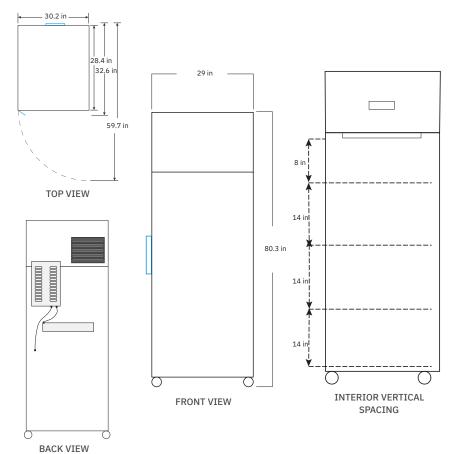
All performance data from 20 cu ft freezer, 25°C ambient, -30.0°C







Dimensions and Construct	tion
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.)











800-B Beaty Street, Davidson, NC 28036 T: 800.242.7197 | www.farrarscientific.com | LSSinfo@tranetechnologies.com © 2023 Trane Technologies Life Sciences LLC. All Rights Reserved. LSFU-PRG014A-EN 11-5-23

