

## Helmer Scientific, Noblesville, Indiana www.helmerinc.com

## Technical Data Sheet High-Performance, Medical-grade Freezer

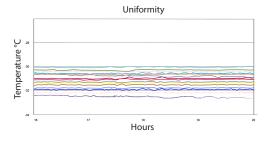
Model: iLF120-GX, i.Series® Laboratory / Upright

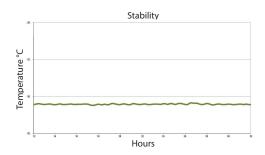
Application, Rating, & Electrical Data		
Application	High-performance storage of medical and scientific products, including vaccines	
Storage Volume	20.2 cu ft (572 L)	
Temperature Range	-15° to -35℃	
Set-Point	-30°C	
Electrical Power	115V 60Hz   220-240V 50/60Hz	
Maximum Current	6.6A   3.1A	
Facility 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*	
Energy Star	Yes, ENERGY STAR® Certified High Performance Freezer	
Indoor/Outdoor Use	Indoor use only, non-residential	
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	5	
User Interface	i.C <sup>3®</sup> color touchscreen, door-mounted, 7 in   177 mm, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor with touchscreen input & display	
Security	Lockable door, password protected settings, PIN access via optional access control	
Control Sensor	RTD, stainless steel	
Communication Port	USB, Remote alarm contacts, RJ45 (Ethernet), API available for Ethernet connectivity development	
Power Failure Alarm	Yes	
High/Low Alarm	Yes, fully adjustable	
Door Ajar Alarm	Yes	
Min/Max Temperature	Yes, display and reset	
Download	Yes, via USB in PDF or CSV format	
Event Log	Yes, all alarms, door openings, download via USB	
Temperature Log	Yes, download via USB	
Access Log	Yes, with optional access control, download via USB	
Interactive Temperature Graph	Yes	
Temperature Monitoring	Yes, two, 4 oz bottles with screw caps	

Performance Characteristics (normal operating conditions)		
+/-2.0		
20		
0.3		
8.12		
52		
2177		
59		

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





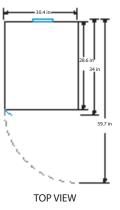


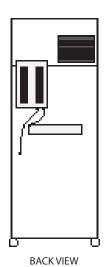
<sup>\*</sup>Must be configured with NSF/ANSI 456 Vaccine Storage Certification option (includes Certificate of Calibration)

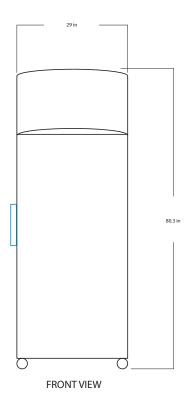


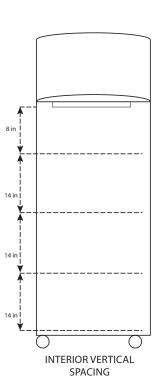
Dimensions and Construction	
Interior (w x h x d)	24.7 x 58.1 x 24 in   628 x 1476 609 mm
Exterior (w x h x d)	29 x 80.3 x 28.6 in   737 x 2039 x 725 mm
Overall Exterior (w x h x d)	30.4 x 80.3 x 34.0 in   773 x 2039 x 862 mm *Includes i.Series bezel, handle and electrical box *subtract 0.3" from depth for units prior to serial number 2150000
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 (w x h x d)	4 ventilated shelves 22.5 x 21.9 in   572 x 557 mm
Casters	Yes, swivel-locking
Integrated Access Control	Optional - electromagnetic-lock with PIN entry via i.C <sup>3</sup> ® user interface
Net Weight	400 lb   182kg
Shipping Weight	490 lb   223 kg
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access
Options   Accessories	Integrated access control, Stainless steel interior, Chart Recorder, Chart paper, Leveling feet, Remote alarms, Floor and Wall bracket kit, Seismic anchoring kit, Storage trays, Ventilated drawers, Drawer dividers, Screen protector, USB drive for downloading, Left-hinge door, NSF/ANSI 456 Vaccine Storage Certification (includes Certificate of calibration), Temperature validation, Validation guide (IQ/OQ), Certificate of calibration, 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	Rel.i™ Warranty - 5 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information





















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