

Helmer Scientific, Noblesville, Indiana www.helmerinc.com

Application, Rating, & Electrical Data Application Storage of blood plasma and other medical and scientific products 20.2 cu ft (572 L) | 360 plasma boxes Storage Volume Temperature Range -15° to -35°C -30°C Set-Point 115V 60Hz | 220-240V 50/60Hz **Electrical Power** 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 OPS (Certified to UL and CSA Standards) IEC/UL61010-2-011: 2016 | IEC 61010-1:2010, AMD1:2016 **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 $+15^{\circ}$ C to $+32^{\circ}$ C | $+59^{\circ}$ F to $+90^{\circ}$ 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 Direct expansion with forced-air fin and tube **Evaporator Type** Defrost Method Automatic R290, Propane, EU F-Gas and EPA SNAP compliant Refrigerant Controller / Configuration Settings User Interface i.C 3 % color touch screen, door-mounted, 7 in | 177 mm, °C or °F Power Switch Controller Type Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control Security 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 Chart Recorder Yes, integrated, 4" (102 mm) diameter, inkless pressure-sensitive charts, backup battery Event Log Yes, all alarms, door openings, download via USB Temperature Log Yes, download via USB Yes, with optional access control, download via USB Access Log Interactive Temperature Graph Temperature Monitoring Yes, two, 4 oz bottles with screw caps Battery Backup Yes, 20 hr display and alarm back-up for i.C^{3®} touchscreen | Rechargeable 12V, lead acid

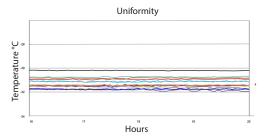
Technical Data Sheet High-Performance, Medical-grade Freezer

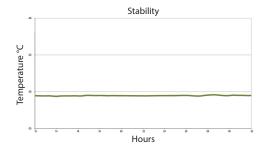
Model: iBF120-GX, i.Series® Plasma / Upright

Performance Characteristics (normal operating conditions)	
Uniformity °C	+/-2.0
Recovery to -29.5°C after 1 min door opening min	25
Stability °C	0.1
Energy consumption kWh/day	8.12
Noise emission dB	52
Heat rejection BTU/hr	2177
Pull-down time to -30°C min	79

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

Recovery after 1 minute door opening The state of the st

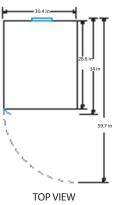


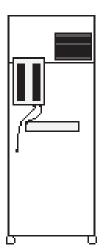




Dimensions and Construction		
Interior (w x h x d)	24.7 x 58.1 x 24 in 628 x 1476 x 609 mm	
Exterior (w x h x d)	29 x 80.3 x 28.6 in 737 x 2039 x 725 mm	
Overall Exterior (w x h x d)	30.4 x 80.3 x 34 in 772 x 2039 x 862 mm *Includes i.Series bezel, handle and electrical box *subtract 0.3" from depth 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)	8 drawers, liquid-tight, plus Cold-Shield™, stainless steel, adjustable 21.5 x 3.8 x 20.7 in 546 x 98 x 527 mm	
Casters	Yes, swivel-locking	
Integrated Access Control	Optional - electromagnetic-lock with PIN entry via i.C ³ ® user interface	
Net Weight	469 lb 213 kg	
Shipping Weight	559 lb 254 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 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, Certificate o calibration, Temperature validation, Validation guide (IQ/OQ), Extended warranty	
Warranty	Rel.i™ Warranty - 5 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information	







BACK VIEW

