

Helmer Scientific, Noblesville, Indiana www.helmerinc.com

Application, Rating, & Electrical Data

Battery Backup

Application Storage of blood plasma and other medical and scientific products Storage Volume 20.2 cu ft (572 L) | 360 plasma boxes 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 +15°C to +32°C | +59°F to +90°F Ambient Operating Temperature 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 R290, Propane, EU F-Gas and EPA SNAP compliant Refrigerant **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 RTD, stainless steel Control Sensor Communication Port Remote alarm contacts Power Failure Alarm Yes Yes, fully adjustable High/Low Alarm Door Ajar Alarm Min/Max Temperature Yes, display and reset Yes, integrated, 4" (102 mm) diameter, inkless pressure-sensitive charts, backup battery Chart Recorder Temperature Monitoring Yes, 4 oz bottle with screw cap

Yes, 9 volt, non-rechargeable, lithium

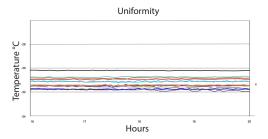
Technical Data Sheet High-Performance, Medical-grade Freezer Model: HBF120-GX, Horizon Series™ Plasma / Upright

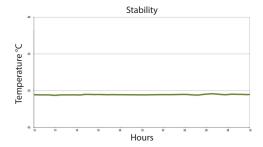
Performance Characteristics (normal operating conditions)	
Uniformity ℃	+/-2.0
Recovery to -29.5°C after 1 min door opening min	25
Stability °C	0.1
Energy consumption kWh/day	8.60
Noise emission dB	52
Heat rejection BTU/hr	2318
Pull-down time to -30°C min	79

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

Recovery after 1 minute door opening

Elapsed Time (min)







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 *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 keypad	
Net Weight	466 lb 212 kg	
Shipping Weight	556 lb 253 kg	
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clear- ance, 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, Left-hinge door, Certificate of calibration, Temperature validation, Validation guide (IQ/OQ), Extended warranty	
Warranty	Rel.i™ Warranty - 3 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information	



