

Helmer Scientific, Noblesville, Indiana www.helmerinc.com

Application, Rating, & Electrical Data Storage of blood plasma and other medical and scientific products Application Storage Volume 5.3 cu ft (150 L) | 48 boxes Temperature Range -15° to -30°C Set-Point -30°C 115V 60Hz | 220-240V 50/60Hz Electrical Power Maximum Current 4.1A | 2.0A Facility Supply Rating Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements1 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 QPS (Certified to UL and CSA Standards) Certification/Agency Listing IEC/UL61010-2-011: 2016 | IEC 61010-1:2010, AMD1:2016 Yes, ENERGY STAR® Certified High Performance Freezer **Energy Star ADA Compliant** Yes, fits under standard ADA compliant countertop 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 System VCC compressor-based, forced-air hydrocarbon Compressor Hermetic, variable speed (VCC). Rated speed range: 1600-4000 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 R290, Propane, EU F-Gas and EPA SNAP compliant Refrigerant Controller / Configuration Settings i.C3 $^{\circ}$ color touch screen, door-mounted, 7 in | 177 mm, $^{\circ}$ C or $^{\circ}$ F User Interface On/Off Power Switch Controller Type Microprocessor with touchscreen input & display Security Lockable door, password protected settings, PIN access via optional access control Control Sensor Communication Ports USB, Remote alarm contacts, RJ45 (Ethernet), API available for Ethernet connectivity development Power Failure Alarm High/Low Alarms - Tests Yes, fully adjustable, automatic (Peltier) testing Door Aiar Alarm Yes, fully adjustable Condenser Temperature Alarm Yes, fully adjustable Min/Max Temperature Yes, display and reset Download Yes, via USB in PDF or CSV format Chart Recorder Yes, standalone, 4" (102 mm) diameter, inkless pressure-sensitive charts, backup battery Event Log Yes, all alarms, door openings, download via USB Yes, download via USB Temperature Log Yes, with optional access control, download via USB Interactive Temperature Graph Yes Temperature Monitoring Yes, 4 oz bottle with screw cap Yes, 20 hr display and alarm back-up for i.C³ touchscreen | Rechargeable 12V, lead acid Battery Back-up

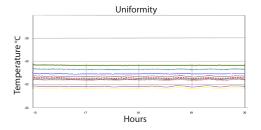
Technical Data Sheet High-Performance, Medical-grade Freezer

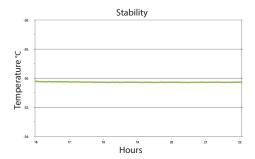
Model: iBF105-GX, i.Series® Plasma / Undercounter

Performance Characteristics (normal operating conditions)	
Uniformity °C	+/-2.0
Recovery to -29.5°C after 1 min door opening min	14
Stability °C	0.1
Energy consumption kWh/day	3.99
Noise emission dB	46
Heat rejection BTU/hr	1701
Pull-down time to -30°C min	72

All performance data from 5 cu ft freezer, 25°C ambient, -30.0°C



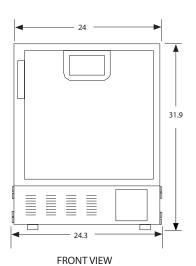


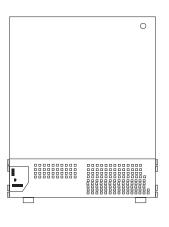




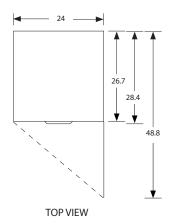
Dimensions and Construction	
Interior (w x h x d)	19.5 x 19.9 x 22.8 in 496 x 505 x 580 mm
Exterior (w x h x d)	$24 \times 31.5 \times 26.7$ in \mid 610 \times 798 \times 678 mm *Add 2.5" to the height if choosing optional casters.
Overall Exterior (w x h x d)	24.3 x 31.9 x 28.4 in 617 x 809 x 721 mm *Add 0.3" to width if choosing optional access control *Includes leveling feet, door handle, user interface, and access panels. *The maximum height added with leveling feet at highest level or casters installed is 2" (51 mm)
Insulation	Sustainable, US EPA, and SNAP approved foam
Exterior/Interior Finish	Bacteria-resistant powder-coating
Door	Solid, field-reversible
Access Port	Rear Access Port- for external monitoring probe(s) (0.75 in 19 mm diameter)
Interior Storage (w x h x d)	2 drawers, liquid-tight, stainless steel, adjustable $16.7\times3.8\times19.2$ in $ 424\times97\times488$ mm, 100 lb $ 46$ kg max capacity/drawer
Leveling Feet	Yes, adjustable
Integrated Access Control	Optional - electromagnetic-lock with PIN entry via i.C3® user interface
Net Weight	187 lb 85 kg
Shipping Weight	248 lb 113 kg
Clearance Requirements	Minimum 3" (76 mm) behind unit for for plug/cord and feature access Front ventilation eliminates the need for top or side clearance
Options Accessories	Integrated access control, Stainless steel exterior/interior, Chart paper, Swivel/Locking casters, Remote alarms, Remote lock adapter kit, Floor and Wall bracket kit, Stacking kit, Pedestal, Ventilated drawer, Storage trays, Screen protector, Left-hinge door, Certificate of 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

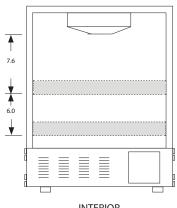






BACK VIEW





INTERIOR VERTICAL SPACING





