Helmer Scientific, Noblesville, Indiana
www.helmerinc.com

# Technical Data Sheet
# High-Performance, Medical-grade Refrigerator
## Model: iBR120-GXC, i.Series® Blood Bank / Upright

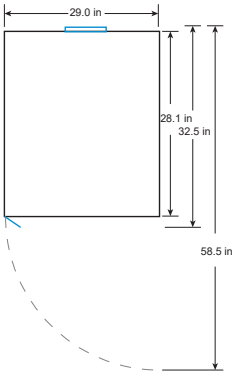
| ***Application, Rating, & Electrical Data*** | |
|---|---|
| Application | High performance storage of blood and other medical and scientific products |
| Storage Volume | 20.2 cu ft (572 L) \| 364 Blood bags |
| Temperature Range | +2°C to +10°C |
| Set Point | +4°C |
| Electrical Power | 115V 60Hz \| 208-240V 50/60Hz |
| Maximum Current | 2.8A \| 1.55A |
| Facility Supply Rating | Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements<br>110-120V AC: 15 A (minimum)<br>208-240V AC: 10 A (minimum) |
| Power Plug/Power Cord Length | NEMA 5-15 hospital-grade \| 115V 60Hz, 10 ft (3.0m)<br>Inquire about additional plug/cord options |
| Certification/Agency Listing | QPS (Certified to UL and CSA Standards)<br>IEC/UL61010-2-011: 2016 \| IEC 61010-1:2010, AMD1:2016 |
| Energy Star | Yes, ENERGY STAR® Certified High Performance Refrigerator |
| 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: 1300-4000 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 | R600a, Isobutane, EPA SNAP compliant |
| ***Controller / Configuration Settings*** | |
| User Interface | i.Center® Plus color touchscreen, 5 in \| 127 mm, °C or °F |
| Power Switch | On/Off |
| Controller Type | Microprocessor with touchscreen input and display |
| Security | Lockable door, password protected settings, PIN access via optional access control |
| Control Sensor | NTC, sealed |
| Communication Ports | USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development |
| Power Failure Alarm | Yes |
| High/Low Alarms - Tests | Yes, fully adjustable, automatic (Peltier) testing |
| Door Ajar Alarm | Yes, fully adjustable |
| Compressor Temperature Alarm | Yes, fully adjustable |
| Min/Max Temperature | Yes, display and reset |
| Download | Yes, via USB. CSV and PDF |
| 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 |
| Chart Recorder | Yes, integrated, 4 in (102 mm) diameter, inkless pressure-sensitive charts, backup battery |
| Temperature Monitoring Ballast | Yes, two 4 oz bottles with screw caps, solid ballasts optional |
| Battery Back-up | Yes, 20 hr display and alarm back up for i.Center® Plus touchscreen \| Rechargeable 12V, lead acid |

| ***Performance Characteristics*** | |
|---|---|
| Uniformity \| °C | +/-1.0 |
| Recovery to 8°C after 3 min door opening \| min | 0* |
| Stability \| °C | 0.05 |
| Energy Consumption \| kWh/day | 3.01 |
| Noise emission \| dB | 49 |
| Heat Rejection / Emission \| BTU/hr | 879 |
| Pull-down time to 4°C \| min | 57 |

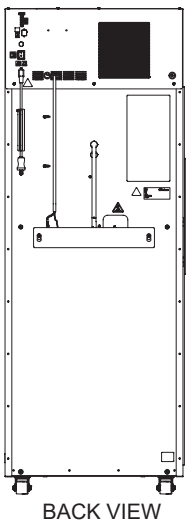
All performance data from 20 cu ft refrigerator, 24.8°C ambient, 4.0°C
* Did not exceed 8°C

| *Dimensions and Construction* | |
|---|---|
| Interior (w x h x d) | 24.8 x 58.1 x 24.0 in \| 628 x 1476 x 609 mm |
| Exterior (w x h x d) | 29.0 x 79.0 x 28.1 in \| 737 x 2006 x 714 mm |
| Overall Exterior (w x h x d) | 29.0 x 79.0 x 32.5 in \| 737 x 2006 x 824 mm<br>*add 0.4 in to width if choosing optional access control |
| Insulation | Sustainable, US EPA and SNAP approved foam |
| Exterior/Interior Finish | Bacteria-resistant powder-coating |
| Door | 1, dual-pane glass, right-hinge |
| Access Port | Top Access Port- for external monitoring probe(s) (0.75 in \| 19 mm diameter)<br>Left Side Access Port (1.75 in \| 45 mm diameter) |
| Interior Storage (w x h x d) | 7 drawers, liquid-tight, stainless steel, adjustable,<br>21.5 x 4.0 x 22.1 in \| 546 x 101 x 561 mm, 100 lb \| 46 kg max capacity/drawer |
| Casters | Yes, swivel-locking |
| Integrated Access Control | Optional- electromagnetic-lock with PIN entry via i.Center® Plus user interface |
| Net Weight | 431 lb \| 196 kg |
| Shipping Weight | 494 lb \| 224 kg |
| Clearance Requirements | Minimum of 8 in (203 mm) above and 3 in (76 mm) behind unit for proper ventilation, clearance, and feature access |
| Options \| Accessories | Integrated access control, Stainless steel interior, Chart paper, Leveling feet, Solid ballast, Remote alarms, Floor and Wall bracket kit, Seismic anchoring<br>Kit, Storage trays, Locking drawer, Left-hinge door, Solid or heated glass door, Side-wall access ports, Certificate of calibration, Temperature validation, Validation guide (IQ/OQ), Extended warranty |
| Warranty | Rel.i™ Plus Warranty- 7 years compressor, 2 years parts, 2 years labor<br>Outside US and Canada- Contact your distributor for warranty information |

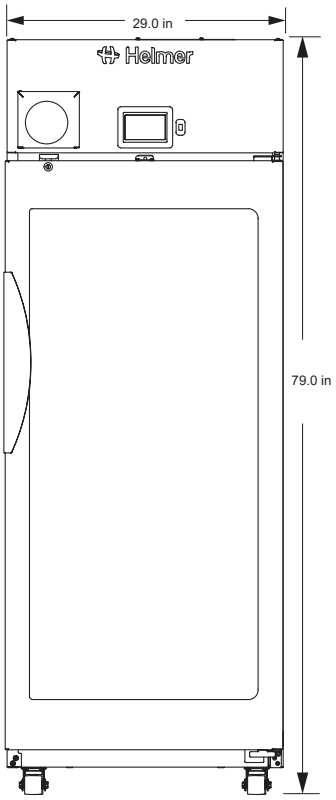


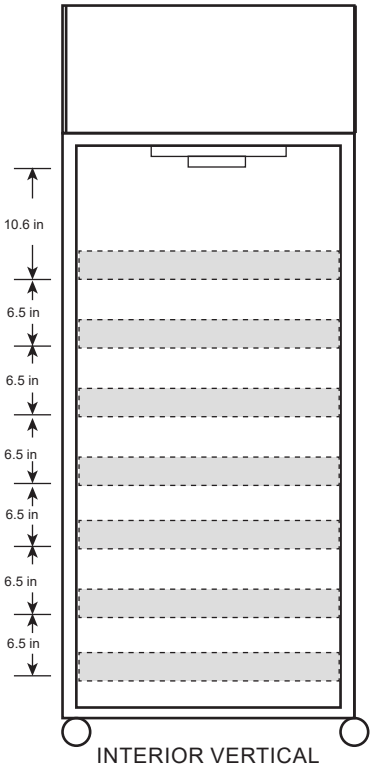

TOP VIEW



BACK VIEW




FRONT VIEW




INTERIOR VERTICAL SPACING

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