

Uniformity

Hours

Temperature ℃

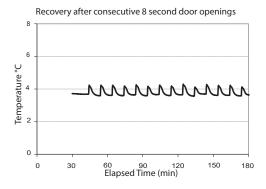
## Technical Data Sheet High-Performance, Medical-grade Refrigerator Model: iBR245-GX, i.Series\* Blood Bank / Upright

| Application, Rating, & Electrical Data |   |  |
|--|---|--|
| Application                            | High performance storage of blood and other medical and scientific products   |  |
| Storage Volume                         | 44.9 cu ft (1271 L)   728 Blood bags  |  |
| Temperature Range                      | +2°C to +10°C   |  |
| Set Point                              | +4°C  |  |
| Electrical Power                       | 115V 60Hz   220-240V 50-60Hz  |  |
| Maximum Current                        | 4.3A   2.5A   |  |
| 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)<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.C3° color touchscreen, door mounted, 7in   177mm, °C or °F  |  |
| Power Switch                           | On/Off  |  |
| Controller Type                        | Microprocessor with touchscreen input & display   |  |
| Security                               | Lockable doors, password protected settings   |  |
| Control Sensor                         | RTD, stainless steel  |  |
| 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   |  |
| Condenser 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   |  |
| Interactive Temperature Graph          | Yes   |  |
| Chart Recorder                         | Yes, integrated, 4" (102mm) 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 & alarm back up for i.C3® touchscreen   Rechargeable 12V, lead acid  |  |

Hours

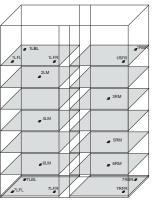
| Performance Characteristics                    |        |
|--|--------|
| Uniformity   °C                                | +/-1.0 |
| Recovery to 8°C after 3 min door opening   min | 1      |
| Stability   °C                                 | 0.06   |
| Energy Consumption   kWh/day                   | 3.77   |
| Noise emission   dB                            | 52     |
| Heat Rejection / Emission   BTU/hr             | 1199   |
| Pull-down time to 4°C   min                    | 75     |

All performance data from 45 cu ft refrigerator, 25°C ambient, 4.0°C



Typical Temperature Map

## 45 cu ft. Temperature Map ℃



Location of Test Probes

|      | AVG | MAX | MIN |
|------|-----|-----|-----|
| 1LBL | 3.9 | 4.0 | 3.9 |
| 1LFL | 3.9 | 4.0 | 3.9 |
| 1LFR | 3.9 | 4.0 | 3.9 |
| 1RBR | 4.1 | 4.1 | 4.0 |
| 1RFR | 4.3 | 4.3 | 4.2 |
| 2LM  | 3.6 | 3.7 | 3.6 |
| 3RM  | 4.0 | 4.0 | 4.0 |
| 4LM  | 3.6 | 3.7 | 3.6 |
| 5RM  | 3.9 | 3.9 | 3.8 |
| 6LM  | 3.6 | 3.6 | 3.6 |
| 6RM  | 3.7 | 3.8 | 3.7 |
| 7LBL | 3.5 | 3.5 | 3.5 |
| 7LFL | 3.5 | 3.6 | 3.5 |
| 7LFR | 3.6 | 3.7 | 3.6 |
| 7RBR | 3.9 | 4.0 | 3.9 |
| 7RFR | 3.7 | 3.7 | 3.6 |
|      |     |     |     |



| Dimensions and Construction  |   |  |
|------------------------------|---|--|
| Interior (w x h x d)         | 54.7 x 58.1 x 24 in   1390 x 1476 x 609 mm  |  |
| Exterior (w x h x d)         | 59 x 79.6 x 28 in   1499 x 2021 x 712 mm  |  |
| Overall Exterior (w x h x d) | 59 x 79.6 x 34 in   1499 x 2021 x 862 mm  "Includes handles and electrical box *subtract 0.2" 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                         | 2, dual-pane glass  |  |
| Access Port                  | Top Access Port- for external monitoring probe(s) (0.75 in   19 mm diameter)  |  |
| Interior Storage (w x h x d) | 14 drawers, liquid-tight, stainless steel, adjustable<br>21.5 x 3.9 x 20.7 in   546 x 100 x 527 mm, 100 lb   46 kg max capacity/drawer  |  |
| Casters                      | Yes, swivel-locking   |  |
| Net Weight                   | 809 lb   367 kg   |  |
| Shipping Weight              | 929 lb   422 kg   |  |
| Clearance Requirements       | Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access   |  |
| Options   Accessories        | Stainless steel interior, Chart paper, Leveling feet, Solid ballast, Remote alarms, Floor and Wall bracket kit, Seismic anchoring kit, Storage trays, Screen protector, Locking drawer, Solid or heated glass doors, Top cover, 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, 1 year labor<br>Outside US and Canada - Contact your distributor for warranty information   |  |



