Helmer Scientific, Noblesville, Indiana
www.helmerinc.com

Technical Data Sheet
High-Performance, Medical-grade Refrigerator
Model: HBR120-GXC, Horizon Series™ Blood Bank / Upright

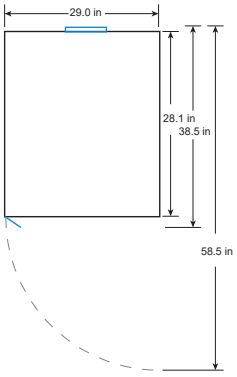
Application, Rating, & Electrical Data	
Application	High performance storage of blood and other medical and scientific products
Storage Volume	20.2 cu ft (572 L) | 364 Blood bags
Temperature Range	+2°C to +10°C
Set Point	+4°C
Electrical Power	115V 60Hz | 208-240V 50/60Hz
Maximum Current	2.8A | 1.55A
Facility Supply Rating	Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 110-120V AC: 15 A (minimum) 208-240V AC: 10 A (minimum)
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade | 115V 60Hz, 10 ft (3.0m) Inquire about additional plug/cord options
Certification/Agency Listing	QPS (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 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	LED digital display, °C or °F
Power Switch	On/Off
Controller Type	Microprocessor with button input and LED display
Security	Lockable door
Control Sensor	NTC, sealed
Communication Port	Remote alarm contacts
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes
Min/Max Temperature	Yes, display and reset
Chart Recorder	Yes, integrated, 4 in (102 mm) diameter, inkless pressure-sensitive charts, backup battery
Temperature Monitoring Ballast	Yes, 4 oz bottle with screw cap, solid ballast optional as accessory
Battery Back-up	Yes, 9 hr monitoring system | 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	3.04
Noise emission | dB	49
Heat Rejection / Emission | BTU/hr	879
Pull-down time to 4°C | min	57

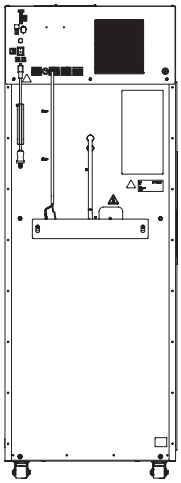
All performance data from 20 cu ft refrigerator, 24.8ºC ambient, 4.0ºC
* Did not exceed 8°C

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 38.5 in | 737 x 2006 x 977 mm
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) Left Side Access (1.75 in | 45 mm diameter)
Interior Storage (w x h x d)	7 drawers, liquid-tight, stainless steel, adjustable, 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
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	Chart paper, Leveling feet, Solid ballast, Remote alarms, Floor and Wall bracket kit, Seismic anchoring Kit, Storage trays, Left-hinge door, Solid door, 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

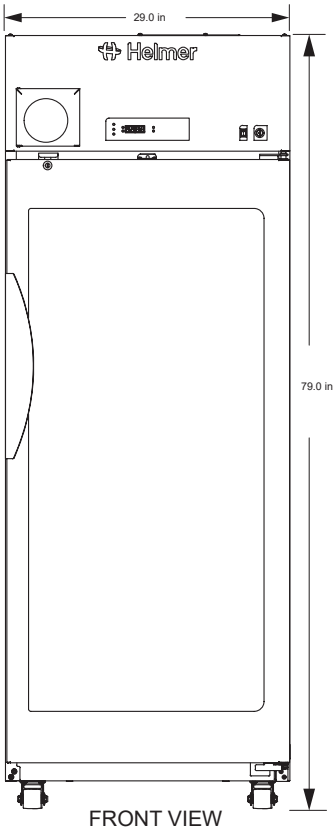




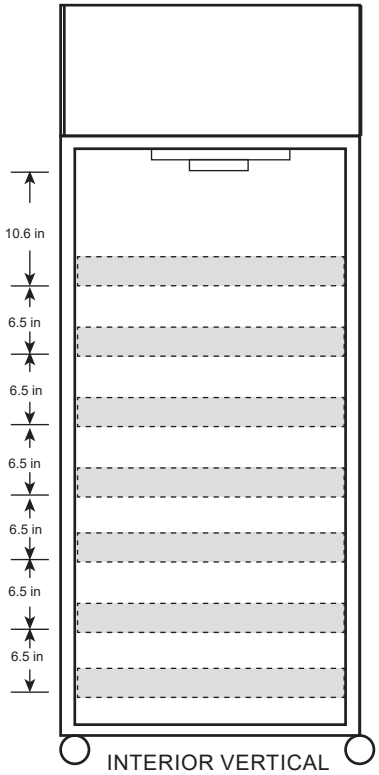
TOP VIEW



BACK VIEW



FRONT VIEW



INTERIOR VERTICAL SPACING

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