Helmer Scientific, Noblesville, Indiana
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Technical Data Sheet
High-Performance, Medical-grade Refrigerator
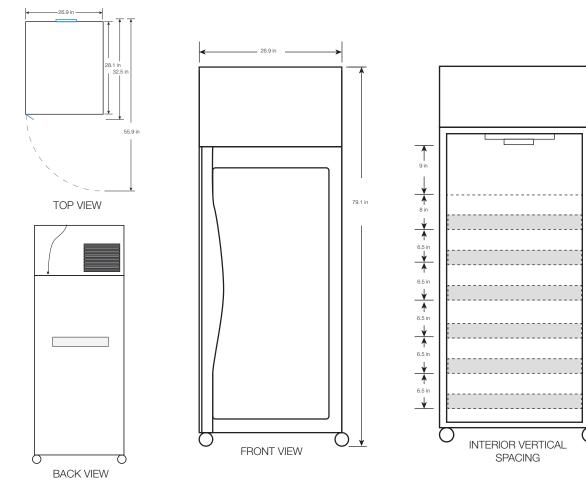Model: HPR118-GX, Horizon Series™ Pharmacy / Upright

Application, Rating, & Electrical Data	
Application	High performance storage of medical and scientific products
Storage Volume	18.4 cu ft | 521 L
Temperature Range | Set Point	+2°C to +10°C (35°F to 50°F) | 5.0°C (41° F)
Electrical Power	115V 60Hz
Maximum Current	3.0 A
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)
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade | 8 to 10 ft (2.4-3.0m)
Certification/Agency Listing	QPS (Certified to UL and CSA Standards) IEC/UL61010-2-011: 2016 | IEC 61010-1:2010, AMD1:2016
Energy Star	Meets high performance refrigerator standards per internal testing; not certified
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 System	
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 alarm/monitor
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
Temperature Monitoring Ballast	Yes, solid ballast
Battery Back-up	Yes, 9V, non-rechargeable, lithium

Performance Characteristics	
Uniformity (Temperature Variance) | °C At 5° setpoint (no more than a 2° C difference (variance) between the warmest and the coldest average temperatures in the cabinet	+/-1.0
Energy Consumption | kWh/day	2.6
Noise emission | dBA	<56
Heat Rejection / Emission | BTU/hr	879

Dimensions and Construction

Interior (w x h x d)	22.5 x 58.1 x 24 in | 571 x 1476 x 609 mm
Exterior (w x h x d)	26.8 x 79.1 x 28.1 in | 680 x 2009 x 712 mm
Overall Exterior (w x h x d) Inc. handle, condensate tray, casters and top cover	26.9 x 79.1 x 32.5 in | 683 x 2009 x 825 mm
Insulation	Sustainable, US EPA and SNAP approved foam
Exterior/Interior Finish	Bacteria-resistant powder-coating
Door	1, dual-pane glass, right or left-hinge available
Access Port	Top Access Port- for external monitoring probe(s) (0.75 in | 19 mm diameter) Left Sidewall Port - with interior and exterior plugs (1.75 in | 45 mm diameter)
Interior Storage (w x h x d)	1 ventilated, powder coated shelf, adjustable, 20.2 x 22 in | 515 x 558 mm, 100 lb | 46 kg max capacity/shelf 6 ventilated, powder coated, pull-out drawers, adjustable, 19.2 x 4 x 22.1 in | 488 x 101 x 561 m), 100 lb | 46 kg max capacity/drawer
Casters	Yes, swivel-locking
Net Weight	395 lb | 179 kg
Shipping Weight	432 lb | 196 kg
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access
Accessories	Chart recorder, Chart paper, Leveling feet, Remote alarms, Floor and Wall bracket kit, Seismic anchoring Kit, Storage trays,
Certificate of Calibration	Yes, generated with ISO 17025 certified, NIST traceable thermometer
Warranty	Rel.i™ Warranty- 5 years compressor, 2 years parts, 1 year labor

TOP VIEW

BACK VIEW

FRONT VIEW

INTERIOR VERTICAL SPACING