



Helmer Scientific, Noblesville, Indiana
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Technical Data Sheet

High-Performance, Medical-grade Refrigerator

Certified to NSF/ANSI 456 Vaccine Storage Standard
Model: HPR118-GXC, 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	+2°C to +10°C (35°F to 50°F)
Set Point	5.0°C (41° F)
Electrical Power	115V 60Hz 208-240V 50/60Hz
Maximum Current	3.0A 2.0A
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: 10A (minimum)
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade 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 ETL certified to NSF/ANSI 456 Vaccine Storage Standard
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 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 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
Temperature Monitoring Ballast	Yes, 4 oz bottle with screw cap, solid ballast optional
Battery Back-up	Yes, 9 hr monitoring system Rechargeable 12V, lead acid

Performance Characteristics	
Energy Consumption kWh/day	2.81
Noise emission dBA	49
Heat Rejection / Emission BTU/hr	879

All performance data from 18 cu ft refrigerator, 24.8°C ambient, 5.0°C. Meets temperature performance requirements as included in NSF/ANSI 456 Vaccine Storage Standard.

Dimensions and Construction	
Interior (w x h x d)	22.5 x 58.1 x 24.0 in 571 x 1476 x 609 mm
Exterior (w x h x d)	26.8 x 79.0 x 28.1 in 680 x 2006 x 714 mm
Overall Exterior (w x h x d)	26.8 x 79.0 x 32.5 in 680 x 2006 x 824 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 4.0 x 22.1 in 488 x 101 x 561 mm, 100 lb 46 kg max capacity/drawer
Casters	Yes, swivel-locking
Net Weight	391 lb 178 kg
Shipping Weight	440 lb 200 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	Temperature chart recorder (stand-alone), Chart paper, Leveling feet, Solid ballast, Remote alarms, Floor and Wall bracket kit, Seismic anchoring Kit, Storage trays, Left-hinge door, Solid glass door, Validation Guide (IQ/OQ), Extended warranty
Certificate of Calibration	Yes, generated with ISO 17025 certified, NIST traceable thermometer
Warranty	Reli™ Warranty- 5 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information

