

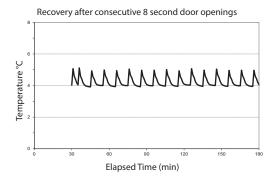
## Helmer Scientific, Noblesville, Indiana www.helmerinc.com

## Technical Data Sheet High-Performance, Medical-grade Refrigerator Certified to NSF/ANSI 456 Vaccine Storage Standard Model: HPR256-GX, Horizon Series™ Pharmacy / Upright

Application, Rating, & Electrical Data			
Application	High performance storage of medical and scientific products		
Storage Volume	56 cu ft   1586 L		
Temperature Range	+2°C to +10°C		
Set Point	+5°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) 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			
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 doors		
Control Sensor	RTD, stainless steel		
Communication Ports	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		

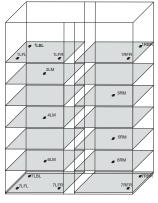
Performance Characteristics	
Uniformity   °C	+/-1.0
Recovery to 8°C after 3 min door opening   min	10
Stability   °C	0.06
Energy Consumption   kWh/day	3.87
Noise emission   dB	52
Heat Rejection / Emission   BTU/hr	1195
Pull-down time to 5°C   min	46

All performance data from 56 cu ft refrigerator, 24.8°C ambient, 5.0°C. Meets temperature performance requirements as included in NSF/ANSI 456 Vaccine Storage Standard.



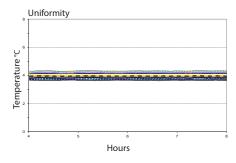
## Typical Temperature Map

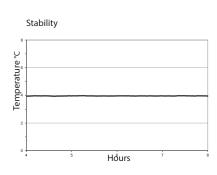
## 56 cu ft. Temperature Map ℃



Location of Test Probes

	AVG	MAX	MIN
1LBL	5.6	5.7	5.6
1LFL	6.1	6.1	6.1
1LFR	6.0	6.1	6.0
1RBR	5.6	5.7	5.6
1RFR	6.3	6.3	6.2
2LM	5.6	5.6	5.6
3RM	5.4	5.5	5.4
4LM	5.2	5.3	5.2
5RM	5.3	5.3	5.3
6LM	5.0	5.0	5.0
6RM	5.3	5.4	5.3
7LBL	5.2	5.2	5.2
7LFL	5.1	5.2	5.1
7LFR	5.2	5.2	5.2
7RBR	5.4	5.4	5.3
7RFR	5.3	5.3	5.2







Dimensions and Construction		
Interior (w x h x d)	54.7 x 58.1 x 30 in   1390 x 1476 x 762 mm	
Exterior (w x h x d)	59 x 78.9 x 34.1 in   1499 x 2003 x 865 mm	
Overall Exterior (w x h x d)	59 x 78.9 x 39.1 in   1499 x 2003 x 993 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) Left Sidewall Port - with interior and exterior plugs (1.75 in   45 mm diameter)	
Interior Storage (w x h x d)	2 ventilated, powder coated shelves, adjustable 22.5 x 27.9 in   572 x 709 mm, 100 lb   46 kg max capacity/shelf 12 ventilated, powder coated, pull-out drawers 21.5 x 3.9 x 28 in   546 x 100 x 713 mm, 100 lb   46 kg max capacity/drawer	
Casters	Yes, swivel-locking	
Net Weight	817 lb   371 kg	
Shipping Weight	947 lb   430 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 recorder, Chart paper, Leveling feet, Solid ballast, Remote alarms, Floor and Wall bracket kit, Seismic anchoring kit, Storage trays, Locking drawer, Solid or heated glass doors, Top cover, Side-wall access ports, Temperature validation, Validation guide (IQ/OQ), Extended warranty	
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 Outside US and Canada- Contact your distributor for warranty information	



