

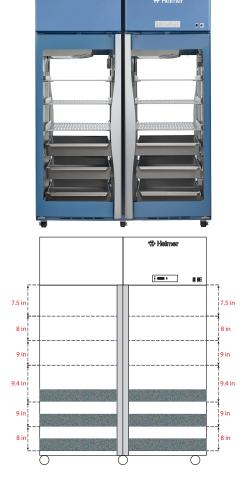
Helmer Scientific, Noblesville, Indiana www.helmerinc.com

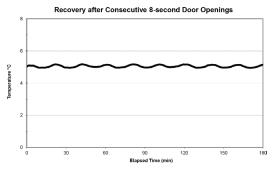
Technical Data Sheet High-Performance, Medical-grade Refrigerator Model: HPR458-GX, Horizon Series™ Pharmacy / Pass-Thru

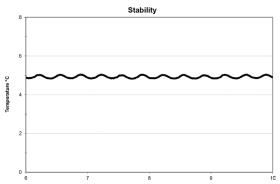
Application, Rating, & Electrical Data				
Application	High perforn	nance storage of medical and scientific products		
Storage Volume	58.5 cu ft 1656 L			
Temperature Range	+2°C to +10°C			
Set Point	+5°C			
Electrical Power	115V 60Hz 220-240V 50/60Hz			
Maximum Current	6.3 A 3.5 A			
Facility Supply 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) 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/UL61010-2-01: 2016 IEC 61010-1:2010, AMD1:2016			
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: 3500-4500 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	R290, Propane, EU F-Gas and EPA SNAP compliant			
Controller / Configuration Setting	Controller / Configuration Settings			
User Interface	LED digital display, °C or °F			
Power Switch	On/Off			
Controller Type	Microprocessor with alarm/monitor			
Security	Lockable doors, key locks			
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			
Battery Back-up	Yes, 9V, non-rechargeable, lithium			
Performance Characteristics				
Uniformity °C		+/-1.0		
Recovery to 8°C after 3 min door opening min		9		
Stability °C		2.4		
Energy Consumption kWh/day		6.73		
Noise emission dB		54		
Heat Rejection / Emission BTU/hr		2002		
Pull-down time to 5°C min		37		
All performance data from 58 cu ft refrigerator, 25°C ambient, 5.0°C				

All performance data from 58 cu ft refrigerator, 25°C ambient, 5.0°C







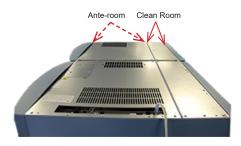




Dimensions and Construction			
Interior (w x h x d)	54.7 x 58.1 x 31.8 in 1390 x 1476 x 809 mm		
Exterior (w x h x d)	59 x 79.3 x 35.8 in 1499 x 2013 x 1014 mm		
Overall Exterior (w x h x d)	59 x 79.3 x 40.1 in 1499 x 2013 x 1018 mm * includes handles		
Insulation	Sustainable, US EPA, and SNAP approved foam		
Exterior/Interior Finish	Bacteria-resistant powder-coating		
Trim/Skirt Kit Details (sold separately)	Trim kit - side rails 3×81.8 in $ 77 \times 2078$ mm; top rail 3×65 in $ 77 \times 1651$ mm; Bacteria-resistant powder-coating; 1 kit per side needed Skirt kit - 2.7×58.9 in $ 67 \times 1495$ mm; Clean room side only; Bacteria-resistant powder-coating		
Door	4, 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)	6 ventilated, powder coated shelves, adjustable 22.4 x 27.5 in 569 x 700 mm, 100 lb 46 kg max capacity/shelf 6 liquid-tight, stainless steel, 2-way drawers, adjustable 21.5 x 4.1 x 26.9 in 547 x 104 x 683 mm, 100 lb 46 kg max capacity/drawer		
Casters	Yes, swivel-locking		
Net Weight	862 lb 391 kg		
Shipping Weight	998 lb 453 kg		
Clearance Requirements	Minimum of $8''$ (203mm) above the control side of the refrigerator. Clearance above the solid cover on the clean room side may be $0''$.		
Options Accessories	Chart Recorder, Chart Paper, Skirt Kit, Wall Trim Kit, Ventilated Shelves, Bridge Shelves, Liquid-tight Drawers, Storage Tray Package, Drawer Dividers, Solid Ballast, Left-hinge Door, Solid Door, Remote Alarms, Floor Bracket Kit, Stainless Steel Interior, Side Wall Access Ports, Temperature Validation, Certificate of Calibration, Validation Guide (IQ/OQ), 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		

Pass-Thru Placement for Building-in

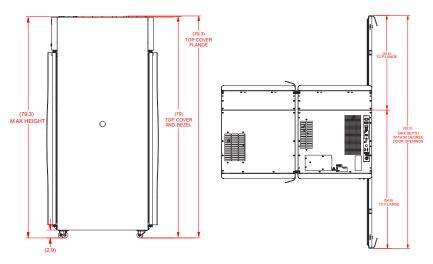
When placing a pass-thru refrigerator between two rooms, size the opening to fit the width of the cabinet. From front to back, the flange between the top covers indicates the separation between the clean room and ante-room (control) sides. The refrigerator should be positioned so that the wall header is over the solid cover, but not over the flange or the blue bezel. A minimum overhead clearance of 8" (204mm) is required on the ante-room side of the cabinet. Zero clearance is required above the clean room side, as well as on the left and right sides of the cabinet.

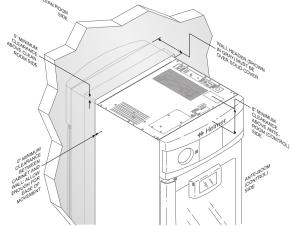


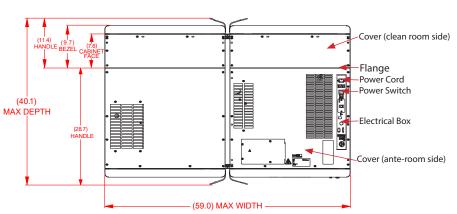
NOTICE

If adding Trim and/or Skirt kit(s) to the unit(s), kit dimensions must be considered prior to building-in.

Wall Header Placement and Required Clearances Shown from ante-room (control) side. Appearance may vary.







Optional Trim Kit and Skirt Kit Placement Shown from clean room side. Appearance may vary. Trim Kit Attaches to the wall around cabinet Top piece extends across full width of unit; may be installed on the clean room or ante-room side. Clearance needed between adjacent units: • 6.2" for full access to both units with trim around each unit • 5.0" for full access to both units with trim around one unit . 2.5" for full access to one unit with no trim installed. Skirt Kit

Attaches to the underside of cabinet. Front piece extends across full width of unit; may only be installed on the clean room side. 2.7" x 59





