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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: iPR256-GX, i.Series[®] Pharmacy / Upright

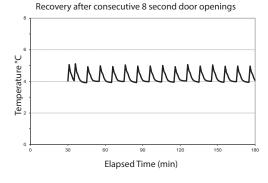
Pull-down time to 5°C | min

Storage Volume S6 cu ft 1586 L Femperature Range +2°C to +10°C Set Point +5°C Electrical Power 115V 60Hz 220-240V 50/60Hz Maximum Current 4.3A 2.5A 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 (minimim)	Application, Rating, & Electrical Data		
Harmperature Range +2°C to +10°C Femperature 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 110-1200 AC: 16 A (minimum) 220-240V AC: 16 A (minimum) 220-240V AC: 16 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 CPS (Certified to U. Bard CAS Standards) IEC/ULG 1010-2.015 (EE G 1010-1.2010, AMD1:2016 ETL certified to NSF/ANSI 456 Vaccine Storage Standard Energy Star Yes, ENERGY STAP* Certified High Performance Refrigerator Indoor /Outdoor Use Indoor use only, non-residential Application Environment Non-corrosive, non-flammable, non-explosive Armbient Operating Temperature +15°C to +32°C +59°F to +90°F Refrigeration VCC compressor-based, forced-air hydrocarbon Condenser Type Air-cooled fin and tube, sealed Expansion Device Cap tube Defost Method Automatic Refrigerant R600a, isobutane, EPA SNAP compliant Controller / Configuration Settings	Application	High performance storage of medical and scientific products	
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) 200-240V AC: 15 A (minimum) 220-240V AC: 15 A (minimum) Power Plug/Power Cord Length NEMAS-15 hospital grade 115V 60Hz, & to 10 ft (2.4-3.0m) inquire about additional plug/cord options Certification/Agency Listing QPS (Certified to UL and CSA Standards) inEC/ULIO10-2-011: 2011 [EC (2010-1:2010, AMD1:2016 ETL certified to NSF/ANSI 45S Vaccine Storage Standard Energy Star Yes, ENERGY STARP 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 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 Evaparion Device Cap tube Defrost Method Automatic Refrigeration System Cor/Of	Storage Volume	56 cu ft 1586 L	
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Facility Supply Rating Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 1101-22004 XC: 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 Certification/Agency Listing CPS (Certified to UL and CSA Standards) EC/ULG1010-2-011: 2016 [EC E0101-1:2010, AMD1:2016 ETL certified to NSF/AND1450 Sociane 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 Armbient Operating Temperature +15°C to +32°C [+59°F to +90°F Refrigeration VCC compressor-based, forced-air hydrocarbon Condenser Type Air-cooled fin and tube, sealed Expansion Device Cap tube Evaporator Type Direct expansion with forced-air fin and tube Defost Method Automatic Refrigerant R600a, Isobutane, EPA SNAP compliant Controller / Configuration Settings Color off Power Switch	Electrical Power	115V 60Hz 220-240V 50/60Hz	
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Inquire about additional plug/cord options Certification/Agency Listing OPS (Certified to UL and CSA Standards) IEC/UL61010-2011: 2016 [IEC 61010-12010, AMD112016 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 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 Exportator Type Direct expansion with forced-air fin and tube Exportator Type Direct expansion with forced-air fin and tube Defrost Method Automatic Refrigerant R600a, Isobutane, EPA SNAP compliant Controller / Configuration Settings IC3° color touchscreen, door mounted, 7in 177mm, °C or °F Power Switch On/Off Controller Type Microprocessor with touchscreen input & display Security Lockable doors, password protected settings Control Sensor RTD, stainless steel <td>Facility Supply Rating</td> <td colspan="2">Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 110-120V AC: 15 A (minimum)</td>	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)	
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Evaporator Type Direct expansion with forced-air fin and tube Defrost Method Automatic Refrigerant R600a, Isobutane, EPA SNAP compliant Controller / Configuration Settings	Condenser Type	Air-cooled fin and tube, sealed	
Defrost Method Automatic Refrigerant R600a, Isobutane, EPA SNAP compliant Controller / Configuration Settings	Expansion Device	Cap tube	
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Condenser Temperature Alarm Yes, fully adjustable	High/Low Alarms - Tests	Yes, fully adjustable, automatic (Peltier) testing	
	Door Ajar Alarm	Yes, fully adjustable	
Min/Max Tomporature Voc. display and reset	Condenser Temperature Alarm	Yes, fully adjustable	
viii viia remperature Tes, display and reset	Min/Max Temperature	Yes, display and reset	
Download Yes, via USB. CSV and PDF	Download	Yes, via USB. CSV and PDF	
Event Log Yes, all alarms, door openings, download via USB	Event Log	Yes, all alarms, door openings, download via USB	
Temperature Log Yes, download via USB	Temperature Log	Yes, download via USB	
Interactive Temperature Graph Yes	Interactive Temperature Graph	Yes	
Temperature Monitoring Ballast Yes, two 4 oz bottles with screw caps, solid ballasts optional	Temperature Monitoring Ballast	Yes, two 4 oz bottles with screw caps, solid ballasts optional	
Battery Back-up Yes, 20 hr display & alarm back up for i.C3® touchscreen Rechargeable 12V, lead acid	Battery Back-up	Yes, 20 hr display & alarm back up for i.C3 [®] touchscreen Rechargeable 12V, lead acid	

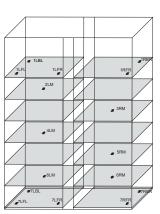
Performance Characteristics Uniformity | °C Recovery to 8°C after 3 min door opening | min Stability | °C Energy Consumption | kWh/day Noise emission | dB 52 Heat Rejection / Emission | BTU/hr

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.

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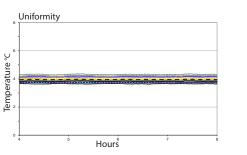
Typical Temperature Map

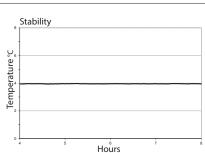


Location of Test Probes

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

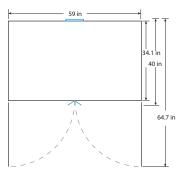
56 cu ft. Temperature Map °C



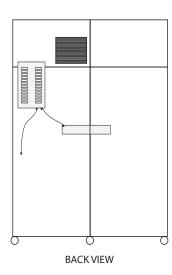


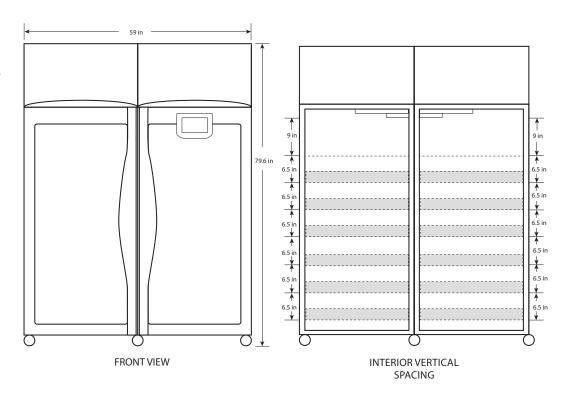
Dimensions and Construction		
Interior (w x h x d)	54.7 x 58.1 x 30 in 1390 x 1476 x 762 mm	
Exterior (w x h x d)	59 x 79.6 x 34.1 in 1499 x 2021 x 865 mm	
Overall Exterior (w x h x d)	59 x 79.6 x 40 in 1499 x 2021 x 1015 mm *Includes handles and electrical box *subtract 0.2" from depth for units prior 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, adjustable 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	827 lb 376 kg	
Shipping Weight	947 lb 431 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, Screen protector, 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™ Plus Warranty- 7 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information	





TOP VIEW





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