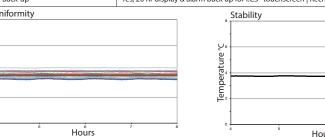
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Helmer Scientific, Noblesville, Indiana www.helmerinc.com

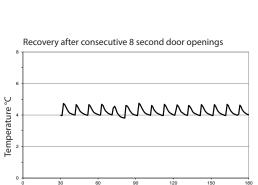
## Technical Data Sheet High-Performance, Medical-grade Refrigerator Certified to NSF/ANSI 456 Vaccine Storage Standard Model: iPR120-GX, i.Series<sup>®</sup> Pharmacy / Upright

Application, Rating, & Electrical Data		Performance Characteristics		
pplication	High performance storage of medical and scientific products	Uniformity   °C	+	+/-1.0
Storage Volume	20.2 cu ft   572 L	Recovery to 8°C after 3 min door opening   min 6		6
Temperature Range	+2°C to +10°C	Stability   °C		0.41
Set Point	+5°C	Energy Consumption   kWh/day		3.01
Electrical Power	115V 60Hz   220-240V 50/60Hz	Noise emission   dB		49
Maximum Current	2.8A   1.55A	Heat Rejection / Emission   BTU/hr		879
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)	Pull-down time to 5°C   min 49 All performance data from 20 cu ft refrigerator, 24.8°C ambient, 5 Meets temperature performance requirements as included in NSI		ent, 5.
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	456 Vaccine Storage Standard.		
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	Recovery after consecutive	e 8 second door openir	ngs
Energy Star	Yes, ENERGY STAR® Certified High Performance Refrigerator			
ndoor/Outdoor Use	Indoor use only, non-residential	6		
Application Environment	Non-corrosive, non-flammable, non-explosive			
Ambient Operating Temperature	+15°C to +32°C   +59°F to +90°F		NNNNN	Ν
Refrigeration		erat		
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	0 30 60	90 120 15	50
Expansion Device	Cap tube	Elapsed	Time (min)	
Evaporator Type	Direct expansion with forced-air fin and tube			
Defrost Method	Automatic	– Typical Tempe	araturo Man	
Refrigerant	R600a, Isobutane, EPA SNAP compliant		-	- 44 -
Controller / Configuration Settings			20 cu ft. Temperature	_
User Interface	i.C3° color touchscreen, door mounted, 7in   177mm, °C or °F		AVG MAX 1BL 4.9 5.1	( N
Power Switch	On/Off		1BL 4.9 5.1 1BR 4.7 5.3	
Controller Type	Microprocessor with touchscreen input & display	#1BL 1M #1BR	1FL 5.1 5.3	-
Security	Lockable door, password protected settings, PIN access via optional access control	JFL .	1FR 5.3 5.4	+
Control Sensor	RTD, stainless steel		1M 5.2 5.3	-
Communication Ports	USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development	3FL 3BL 3BR 3BR	3BL 4.8 5.1	4
Power Failure Alarm	Yes		3BR 4.7 5.1	4
High/Low Alarms - Tests	Yes, fully adjustable, automatic (Peltier) testing	sFL sFR sFR	3FL 5.2 5.3 3FR 5.2 5.3	
Door Ajar Alarm	Yes, fully adjustable	SFL 5FR	3M 5.1 5.3	
Condenser Temperature Alarm	Yes, fully adjustable		5BL 4.6 4.8	-
Min/Max Temperature	Yes, display and reset	•7BL •7FL •7FL	5BR 4.7 4.9	+
Download	Yes, via USB. CSV and PDF		5FL 5.1 5.2	-
	Yes, all alarms, door openings, download via USB	Location of Test Probes	5FR 5.1 5.3	5
Event Log		1		4
Event Log Temperature Log	Yes, download via USB		5M 5.0 5.1	
-	Yes, download via USB   Yes, with optional access control, download via USB	-	5M     5.0     5.1       7BL     4.5     4.9	+
Temperature Log		-		4
Temperature Log	Yes, with optional access control, download via USB	-	7BL 4.5 4.9	

Hours



Temperature °C

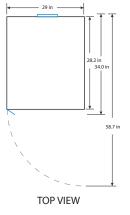


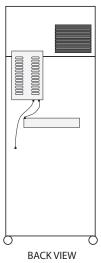
e curta remperature map			
	AVG	MAX	MIN
1BL	4.9	5.1	4.7
1BR	4.7	5.3	4.5
1FL	5.1	5.3	4.9
1FR	5.3	5.4	5.1
1M	5.2	5.3	5.1
3BL	4.8	5.1	4.6
3BR	4.7	5.1	4.5
3FL	5.2	5.3	5.1
3FR	5.2	5.3	5.0
3M	5.1	5.3	5.0
5BL	4.6	4.8	4.4
5BR	4.7	4.9	4.5
5FL	5.1	5.2	4.9
5FR	5.1	5.3	5.0
5M	5.0	5.1	4.8
7BL	4.5	4.9	4.3
7BR	4.6	5.1	4.4
7FL	4.8	5.1	4.7
7FR	4.8	5.1	4.7
7M	4.8	5.0	4.6

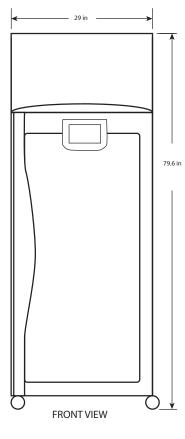
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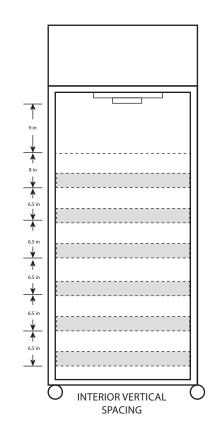
Dimensions and Construction			
Interior (w x h x d)	24.7 x 58.1 x 24 in   628 x 1476 x 609 mm		
Exterior (w x h x d)	29 x 79.6 x 28.2 in   737 x 2021 x 715 mm		
Overall Exterior (w x h x d)	29.1 x 79.6 x 34 in   738 x 2021 x 862 mm *add 0.5" to width if choosing optional access control *subtract 0.2" 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	1, dual-pane glass, right-hinge		
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, 22.5 x 21.9 in   572 x 557 mm, 100 lb   46 kg max capacity/shelf 6 ventilated, powder coated, pull-out drawers, adjustable, 21.5 x 3.9 x 22 in   546 x 100 x 560 mm, 100 lb   46 kg max capacity/drawer		
Casters	Yes, swivel-locking		
Integrated Access Control	Optional- electromagnetic-lock with PIN entry via i.C3® user interface		
Net Weight	438 lb   199 kg		
Shipping Weight	528 lb   240 kg		
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access		
Options   Accessories	Integrated access control, Stainless steel interior, Chart recorder, Chart paper, Leveling feet, Solid ballast, Remote alarms, Remote lock adapter kit, Floor and Wall bracket kit, Seismic anchoring Kit, Storage trays, Screen protector, Locking drawer, Left-hinge door, Solid or heated glass door, 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		











Vaccine Storage Certified NSF/ANSI 456 STANDARD

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Helmer Scientific 380418-1/D 01/22