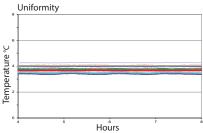


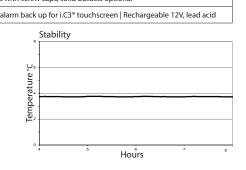
Helmer Scientific, Noblesville, Indiana www.helmerinc.com

Technical Data Sheet High-Performance, Medical-grade Refrigerator Model: iLR120-GX, i.Series® Laboratory / Upright

Application, Rating, & Electrical Dat	ta	Performance Characteristics				
Application	High performance storage of medical and scientific products	Uniformity °C			+	+/-1.
Storage Volume	20.2 cu ft 572 L	Recovery to 8°C after 3 min door opening min			9	
Temperature Range	+2°C to +10°C	Stability °C			0.07	
Set Point	+4°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			44		
,, .	safety codes and requirements 110-120V AC: 15 A (minimum) 220-240V AC: 10 A (minimum)	All performance data from 20 cu fi	t refrigerator,	24.8°C	ambier	
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	Recovery after consecutive	8 second do	oor op	ening	IS
Energy Star	Yes					
Indoor/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		~~~	~ ~ `	~ ~ `	7
Refrigeration		u de l				
Refrigeration System	VCC compressor-based, forced-air hydrocarbon	Ler 2				
Compressor	Hermetic, variable speed (VCC). Rated speed range: 1300-4000 rpm	0				
Condenser Type	Air-cooled fin and tube, sealed	Elapsed T	ime (min)	20	150	
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		Typical Temp	erature Ma	р		
			20 cu fi	t. Temp	erature	e M
user interface	i.C3° color touchscreen, door mounted, 7in 177mm, °C or °F					
	i.C3° color touchscreen, door mounted, 7in 177mm, °C or °F On/Off			AVG	мах	
Power Switch			1BL	AVG 3.6	MAX 3.6	+-
Power Switch Controller Type	On/Off	- - - - 				
Power Switch Controller Type Security	On/Off Microprocessor with touchscreen input & display	#188 #161 #188 #161 #188	1BL	3.6	3.6	
Power Switch Controller Type Gecurity Control Sensor	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control		1BL 1BR 1FL 1FR	3.6 3.5 3.8 4.0	3.6 3.6 3.8 4.0	
Power Switch Controller Type Security Control Sensor Communication Ports	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity	e IFL IFN	1BL 1BR 1FL 1FR 1M	3.6 3.5 3.8 4.0 3.8	3.6 3.6 3.8 4.0 3.8	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development		1BL 1BR 1FL 1FR	3.6 3.5 3.8 4.0	3.6 3.6 3.8 4.0	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes	#151 124 #255 #261 #265	18L 18R 1FL 1FR 1M 28L	3.6 3.5 3.8 4.0 3.8 3.4	3.6 3.6 3.8 4.0 3.8 3.4	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing	e ²⁸⁵ .e ²³⁴	18L 18R 1FL 1FR 1M 28L 28R	3.6 3.5 3.8 4.0 3.8 3.4 3.4 3.5	3.6 3.6 3.8 4.0 3.8 3.4 3.5	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable	€281. €281. €281. €287. €27. €	18L 18R 1FL 1FR 1M 28L 28R 2M	3.6 3.5 3.8 4.0 3.8 3.4 3.4 3.5 3.7	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Min/Max Temperature	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable	#151 124 #255 #261 #265	18L 18R 1FL 1FR 1M 28L 28R 2M 3FL	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Win/Max Temperature Download	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable Yes, fully adjustable Yes, display and reset		18L 18R 1FL 1FR 1M 28L 28R 2M 3FL 3FR	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Min/Max Temperature Download Event Log	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable Yes, display and reset Yes, via USB. CSV and PDF	€281. €281. €281. €287. €27.	18L 18R 1FL 1FR 1M 28L 28R 2M 3FL 3FR 3M	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Min/Max Temperature Download Event Log Temperature Log	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable Yes, display and reset Yes, via USB. CSV and PDF Yes, all alarms, door openings, download via USB		18L 18R 1FL 1FR 1M 28L 28R 2M 3FL 3FR 3M 48L	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.4	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.5	
Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Min/Max Temperature Download Event Log Temperature Log Access Log	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable Yes, fully adjustable Yes, via USB. CSV and PDF Yes, all alarms, door openings, download via USB Yes, download via USB		18L 18R 1FL 1FR 1M 2BL 2BR 2M 3FL 3FR 3M 4BL 4BR	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.4	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.5 3.6	
User Interface Power Switch Controller Type Security Control Sensor Communication Ports Power Failure Alarm High/Low Alarms - Tests Door Ajar Alarm Condenser Temperature Alarm Min/Max Temperature Download Event Log Temperature Log Access Log Interactive Temperature Graph Temperature Monitoring Ballast	On/Off Microprocessor with touchscreen input & display Lockable door, password protected settings, PIN access via optional access control RTD, stainless steel USB, Remote alarm contacts, RJ45 (Ethernet). API available for Ethernet connectivity development Yes Yes, fully adjustable, automatic (Peltier) testing Yes, fully adjustable Yes, fully adjustable Yes, stailly adjustable Yes, stailly adjustable Yes, stailly adjustable Yes, stailly adjustable Yes, display and reset Yes, all alarms, door openings, download via USB Yes, download via USB Yes, with optional access control, download via USB		18L 18R 1FL 1FR 1M 28L 28R 2M 3FL 3FR 3M 48L 48R 4FL	3.6 3.5 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.4 3.7 3.4 3.6 4.3	3.6 3.6 3.8 4.0 3.8 3.4 3.5 3.7 4.0 4.1 3.7 3.5 3.6 4.3	



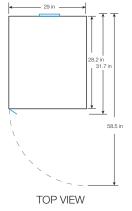


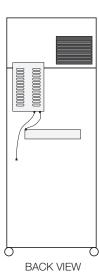


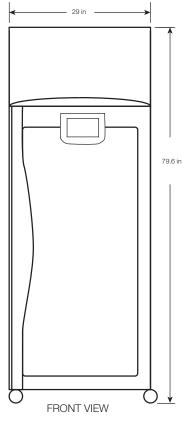
	AVG	MAX	MIN
1BL	3.6	3.6	3.5
1BR	3.5	3.6	3.5
1FL	3.8	3.8	3.8
1FR	4.0	4.0	4.0
1M	3.8	3.8	3.7
2BL	3.4	3.4	3.3
2BR	3.5	3.5	3.4
2M	3.7	3.7	3.7
3FL	4.0	4.0	3.9
3FR	4.1	4.1	4.0
3M	3.7	3.7	3.6
4BL	3.4	3.5	3.4
4BR	3.6	3.6	3.5
4FL	4.3	4.3	4.2
4FR	4.0	4.1	4.0
4M	3.6	3.7	3.6

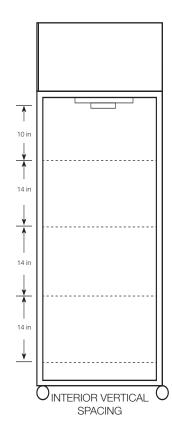
Dimensions and Construction			
Interior (w x h x d)	24.7 x 58.1 x 24 in 628 x 1476 x 609 mm		
Exterior (w x h x d)	29 x 79.6 x 28.2 in 737 x 2021 x 715 mm		
Overall Exterior (w x h x d)	29 x 79.6 x 31.7 737 x 2021 x 803 mm *add 0.5" to width if choosing optional access control		
Insulation	Sustainable, US EPA, SNAP and GRAS 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 d)	4 ventilated, powder coated shelves, adjustable 22.5 x 21.9 in 572 x 557 mm, 100 lb 46 kg max capacity/shelf		
Casters	Yes, swivel-locking		
Integrated Access Control	Optional- electromagnetic-lock with PIN entry via i.C3® user interface		
Net Weight	445 lb 202 kg		
Shipping Weight	535 lb 243 kg		
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for clearance and feature access		
Options Accessories	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, Certificate of calibration, Temperature validation, Validation guide (IQ/OQ), Extended warranty		
Warranty	Rel.i™ Plus Warranty- 7 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information		











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