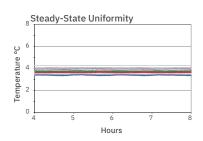


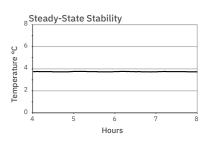


Application, Rating, and Electrical Data		
Application	Precision temperature storage for biopharmaceutical and life science research applications	
Storage Volume	20.2 cu ft 572 L	
Temperature Range	+2°C to +10°C	
Set Point	+4°C	
Electrical Power	115V 60Hz 220-240V 50/60Hz	
Maximum Current	2.8A 1.55A	
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	
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, EPA SNAP and EU F-Gas compliant natural hydrocarbon refrigerant	

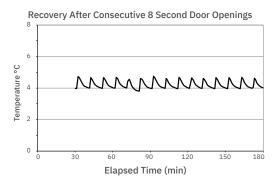
Controller / Configuration Settings		
User Interface	LED digital display, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor-based with alarm/monitor	
Security	Lockable exterior door, locking interior drawers available as accessory	
Control Sensor	RTD, stainless steel	
Communication Port	Remote 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, maintenance-free anodized aluminum solid ballast thermal buffer	
Battery Back-up	Yes, 9V, non-rechargeable, lithium	





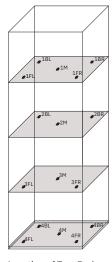
Performance Characteristics (normal operating conditions)		
Uniformity °C	+/-1.0	
Recovery to 8°C after 3 min door opening min	9	
Stability °C	0.07	
Energy Consumption kWh/day	3.04	
Noise emission dB	49	
Heat Rejection / Emission BTU/hr	879	
Pull-down time to 4°C min	44	

All performance data from 20 cu ft refrigerator, 24.8°C ambient, 4.0°C



Typical Temperature Map

20 cu ft. Temperature Map °C



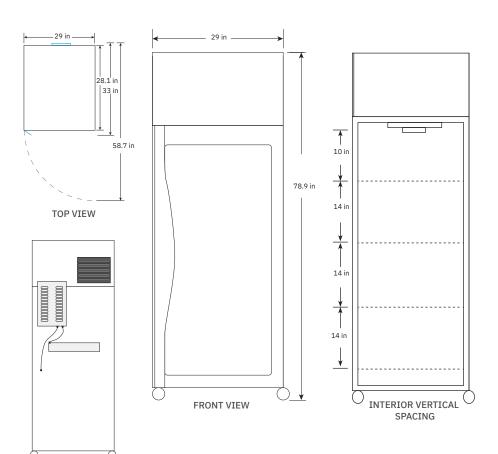
Location of Test Probes

	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 78.9 x 28.1 in 737 x 2003 x 712 mm	
Overall Exterior (w x h x d)	29.1 x 78.9 x 33 in 738 x 2003 x 837 mm	
Insulation	EPA SNAP and EU F-Gas compliant insulation and foaming agents	
Exterior/Interior Finish	Bacteria-resistant powder-coating	
Door	Glass door, 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	
Mobility	Easily movable locking casters	
Net Weight	442 lb 201 kg	
Shipping Weight	535 lb 243 kg	
Clearance Requirements	Minimum of 8" (203mm) above and 3" (76mm) behind unit for proper ventilation, clearance, and feature access	
Available Accessories	Remote alarms, remote lock adapter kit, floor and wall seismic bracket kits, stacking kit, pedestal, storage trays, locking interior drawers, certificate of calibration, temperature validation, validation guide (IQ/OQ), extended warranty	
Certificate of Calibration	Yes, available as an option, generated with an ISO 17025 certified, NIST traceable thermometer	
Warranty	5 years compressor, 2 years parts, 1 year labor (Outside US/Canada: Please consult with your local representative for labor warranty information.)	















BACK VIEW