

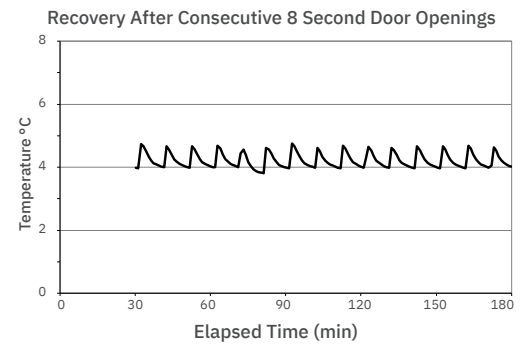
Application, Rating, and Electrical Data	
Application	Precision temperature storage for biopharmaceutical and life science research applications
Storage Volume	20.2 cu ft   572 L
Temperature Range	+2°C to +10°C
Set Point	+4°C
Electrical Power	115V 60Hz   220-240V 50/60Hz
Maximum Current	2.8A   1.55A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

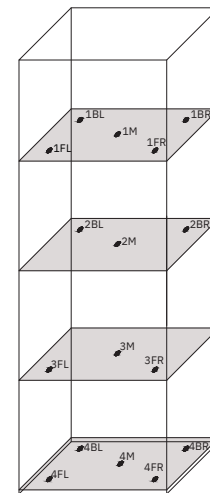
Performance Characteristics (normal operating conditions)	
Uniformity   °C	+/-1.0
Recovery to 8°C after 3 min door opening   min	9
Stability   °C	0.07
Energy Consumption   kWh/day	3.04
Noise emission   dB	49
Heat Rejection / Emission   BTU/hr	879
Pull-down time to 4°C   min	44

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



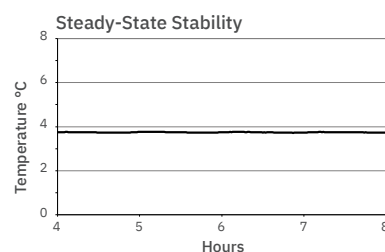
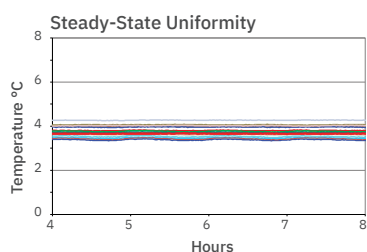
Typical Temperature Map

20 cu ft. Temperature Map °C

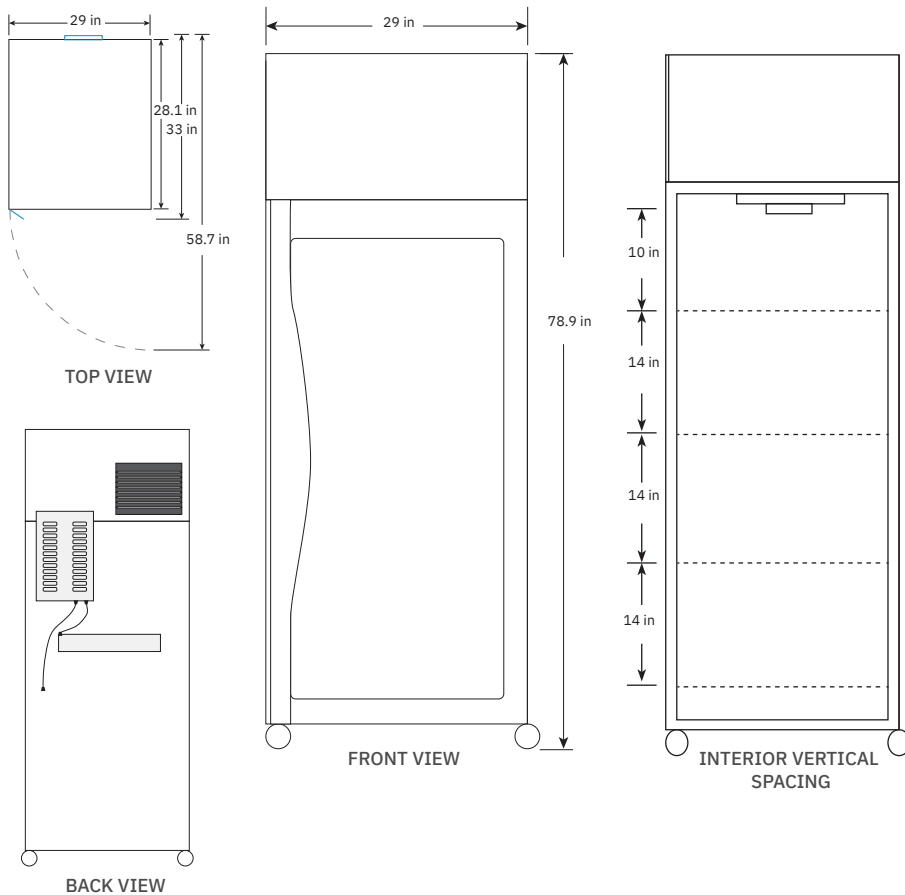


Location of Test Probes

	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.)



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