REF12 Upright

laboratory and pharmacy refrigerators



Model configurations					
Storage system	Hinge location[1]	Keypad	Door Configuration	Heated door	**Item number**
4 shelves	right	no	glass	no	**REF12-LB-R00G**
4 shelves	left	no	glass	no	**REF12-LB-L00G**
4 shelves	right	no	stainless	no	**REF12-LB-R00S**

[1] As facing the unit.

Features

Powerful refrigeration system and superior plenum air distribution

- modular refrigeration system with microprocessor controller provides a ±1 C (1.8 F) performance throughout
- industry-exclusive plenum air distribution delivers cold air at three different levels
- automatic defrost

User-friendly interface

- 7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
- integral event and data logging with easy downloading via convenient USB port

Protection for your valuable products

- audible and visual high/low temperature, door open, power failure, low battery alarms
- dry contacts for remote alarming

Full stainless steel cabinet and high quality components

- full stainless steel interior and exterior provide resistance to rust and corrosion
- quick-connect RTD product temperature probe easily accessible inside storage cabinet
- dished stainless floor contains spills for easy clean up
- heavy-duty dual casters roll easily and lock securely
- 2.00" (5.08 cm) of non-HFC low GWP/ODP polyurethane insulation
  - polyurethane keeps energy costs low
- four heavy-duty coated wire shelves standard

Heavy-duty door for ease of use and energy savings

- dual-pane glass door, lockable
- energy efficient low-E glass coating to reduce energy loss by 30 - 50% compared to non-coated glass
- glass remains condensation-free to 27 C (80 F) at 60% RH
- self-closing hinges lock open at 105 degrees for easy product loading

Cool, energy-efficient LED light

Warranty

- 2 years parts, 5 years compressor parts, 2 years labor

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Accessories

Additional shelf (item# 01311976)

Quick-connect replacement RTD temperature probe with ISO 17025 certificate of traceable calibration (item# 01140458)

Glycerine, 16 oz (item# 00959296)

Seismic brackets (item# 01319441)

Replacement refrigeration module (item# 01312529)

Additional key/lock kit for glass or solid door (item# 01311877)

NOTE: Accessories ship separately.

Touchscreen display



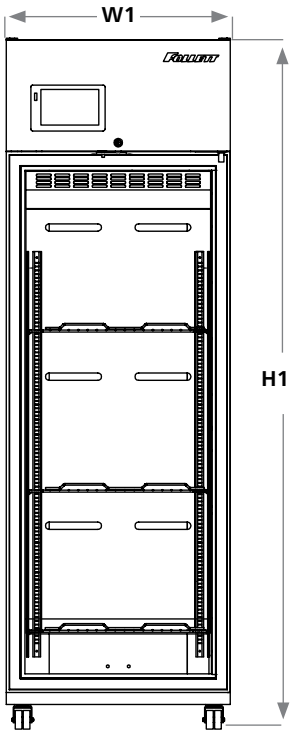
Heavy-duty coated wire shelves

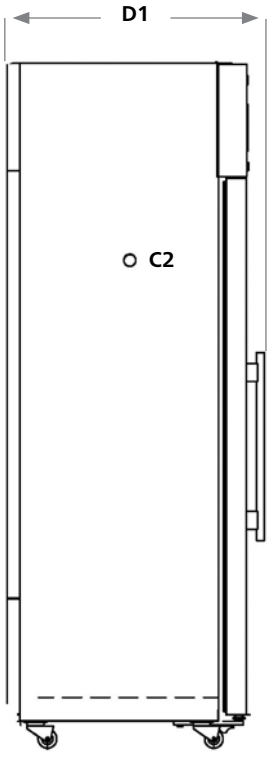


Specification

Nominal capacity	11.8 cu ft
Ventilation clearance	20.00" (50.8 cm) top, 3.00" (7.62 cm) back
Exterior	
W1 Width	23.62" (60.0 cm)
D1 Depth with handle	27.25" (69.2 cm)
H1 Height with casters	72.75" (184.8 cm)
Casters	(4) swiveling dual wheel casters with toe locks
D2 Door swing	46.19" (117.3 cm)
Interior	
Height (usable)	51.5" (130.8 cm)
Lighting	(1) energy efficient full length LED light
Storage system	(4) coated wire shelves
Overall shelf dimensions	18" W x 19" D (45.7 cm x 48.3 cm)
Working load rating per shelf	47 lb (21 kg)
Door configurations	
Door	dual-pane glass door or solid stainless steel
Door lock	cylinder type with two keys
Door handle	ADA-height, vertical
Door hinges	self-closing with 105º hold open feature
Gasket	magnetic dart style (replaceable without tools)
Electrical	
C1 Electrical 115 V/60/1 (115 - 127 V)	4 run load amps, NEMA 5-15P straight hospital-grade plug Max. fuse 15 amps, 9.51' (2.9 m) cord set
On/off switch	at rear
Controls	
Temperature display	7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
C2 3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	(1) quick-connect RTD (± 0.4 C, ± 0.7 F)
Temperature probe calibration	probe calibration in 0.1º increments
Password protection PIN	4 digit password to prevent interface setting/selection changes
Date and time	programmable
Product simulation bottle size	(1) 60 ml
Refrigeration and defrost probes	NTC thermistor type
Refrigeration cycle with probe error	factory set at 8 min on, 15 off, user adjustable
Programmable operating range	2.2 to 10 C (36 to 50 F)
Factory preset	4.4 C
Alarming	
High and low product temperature alarm	audible and visual, user programmable set points in C or F
Power failure alarm	audible and visual
Door ajar alarm	audible and visual

Dimensional drawing





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Probe error alarm	audible and visual – product temperature probes, refrigeration and defrost
Alarm mute	10 minute ring-back
Alarm volume	0-10 scale
Low battery alert	audible and visual
Back-up battery status	shows voltage level
Min/max temperature log	shows highest and lowest product temperature since last reset occurred
Remote contacts	NO/NC standard, at rear
Data logging	
Information log	graphs or displays temperature data and displays chronological event data (50,000 data points)
Data export	USB export capabilities
System performance	
Top-to-bottom temperature consistency	± 1 C (1.8 F)
Refrigeration system	integral top-mounted module with air-cooled condenser
Refrigerant and charge	non-CFC R134a refrigerant, 5.46 oz
Air circulation system	ducted air to three storage levels through back plenum openings, front face return
Air temperature pull down	24 to 5 C (75 to 41 F) in 50 minutes
Product simulation bottle temperature pull down	24 to 5 C (75 to 41 F) in 120 minutes
Energy consumption	2.19 kWh/day
BTU/hr normal heat rejection, includes duty cycle (75 F ambient)	802 BTU/hr (235 Watts)
BTU/hr maximum (total) heat rejection, continuous operation (75 F ambient)	1604 BTU/hr (470 Watts)
Shipping	
Shipping size	26.53" W x 28.90" D x 80.70" H (67.4 x 73.4 x 205 cm)
Approximate refrigeration module net weight	40 lb (18 kg)
Approximate net weight	380 lb (173 kg)
Approximate ship weight	529 lb (240 kg)
NOTE: For indoor use only	

SHORT FORM SPECIFICATION: Upright refrigerator with 11.8 cu ft of nominal capacity. To include (4) coated-wire shelves, adjustable. Environmentally responsible R134a refrigeration system to include an integral top-mounted module with 1/3 hp compressor and air-cooled condenser. 7" LCD capacitive touchscreen with user selectable C or F. Event and data logging with USB download capability. Air circulation system to duct air through back plenum openings with front face return. Storage area to be insulated with CFC-free, high density polyurethane foam. 9' (2.7 m) power cord with NEMA 5-15 90º hospital-grade plug. UL and CUL listed.

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