

# REF12 Upright

laboratory and pharmacy refrigerators



## Features

### Powerful refrigeration system and superior plenum air distribution

- modular refrigeration system with microprocessor controller provides a  $\pm 1$  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

Model configurations					
Storage system	Hinge location <sup>1</sup>	Keypad	Door Configuration	Heated door	Item number
4 shelves	right	no	glass	no	<b>REF12-LB-R00G</b>
4 shelves	left	no	glass	no	<b>REF12-LB-L00G</b>
4 shelves	right	no	stainless	no	<b>REF12-LB-R00S</b>

<sup>1</sup> As facing the unit.

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## Features (continued)

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### Warranty

- 2 year parts and labor
  - 5 year compressor parts only
  - optional extended one year warranty (item# EW12)
    - 3 year parts and labor
    - 5 year compressor parts only
  - optional extended three year warranty (item# EW36)
    - 5 year parts and labor
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### Certifications



Commercial Refrigerator  
SAFETY US/CA – SA12646

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## Accessories

Additional shelves (1) (item# 01311976)

NOTE: Maximum of (6) shelves per unit.

Replacement “quick-connect” RTD probe with certificate of NIST-traceable calibration (item# 01140458)

Glycerine, 16 oz (item# 00959296)

Wall bracket kit, seismic anchoring (item# 01319441)

Replacement CRS (Complete Refrigeration System) module (item# 01312529)

NOTE: Accessories ship separately.

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### Touchscreen display



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### Heavy-duty coated wire shelves



## Specification

Nominal capacity	11.8 cu ft (334 L)
Ventilation clearances	20.00" (50.8 cm) top, 3.00" (7.62 cm) rear

### Exterior

<b>W1</b> Width	23.62" (60.0 cm)
<b>D1</b> Depth with handle	27.25" (69.2 cm)
Depth with rear ventilation clearance	30.25" (76.8 cm)
<b>H1</b> Height with casters	72.75" (184.8 cm)
Casters	(4) swiveling dual wheel casters with toe locks
<b>D2</b> 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
Max. number of shelves	(6)
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 105° hold open feature
Gasket	magnetic dart style (replaceable without tools)

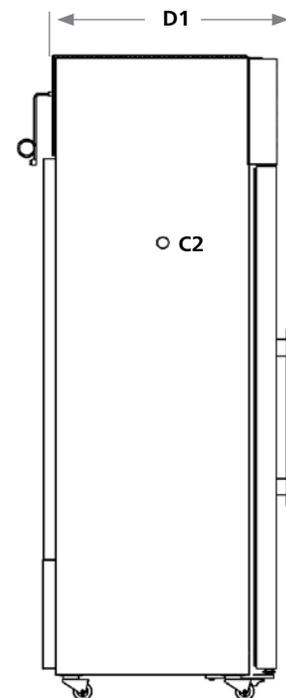
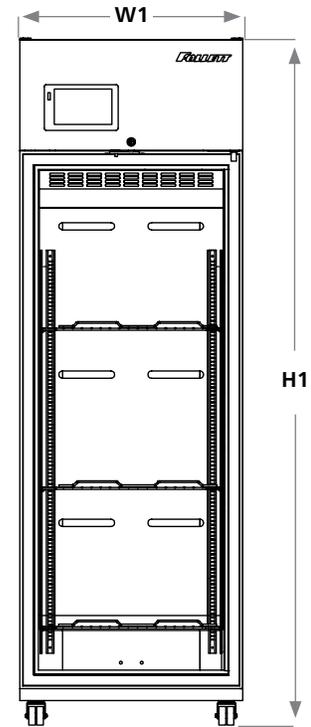
### Electrical

<b>C1</b> Electrical	4 run load amps, NEMA 5-15P straight hospital-grade plug. 9.51' (2.9 m) cord set.
Maximum size of branch circuit overcurrent device	15 amps dedicated circuit
On/off switch	at rear

### Controls

Temperature display	7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
<b>C2</b> 3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	(1) quick-connect RTD ( $\pm 0.4$ C, $\pm 0.7$ F)
Temperature probe calibration	probe calibration in 0.1° 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

## Dimensional drawing



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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
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	27.00" W x 29.00" D x 81.00" H (68.6 x 73.7 x 205.7 cm)
Approximate refrigeration module net weight	40 lb (18 kg)
Approximate net weight	Solid door – 322 lb (146 kg) Glass door – 362 lb (164 kg)
Approximate ship weight	Solid door – 382 lb (174 kg) Glass door – 420 lb (191 kg)

NOTE: For indoor use only

SHORT FORM SPECIFICATION: Upright refrigerator with 11.8 cu ft (334 L) 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 non-HFC low GWP/ODP polyurethane insulation. 9' (2.7 m) power cord with NEMA 5-15 90° hospital-grade plug. UL and CUL listed.

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