Upright

laboratory & pharmacy refrigerators

User selectable C or F temperature
and alarm display

Upright refrigerators				
model	cubic capacity cu ft (L)	storage system	V/Hz/Ph	**Item number**
refrigerator	19.7 (558)	4 shelves	115/60/1	**REF20-LB**
	19.7 (558)	6 baskets	115/60/1	**REF20-PH**
	24.6 (697)	4 shelves	115/60/1	**REF25-LB**
	24.6 (697)	6 baskets	115/60/1	**REF25-PH**

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 six different levels
- frost-free and auto evaporating condenser

User-friendly interface and protection for your valuable products

- easy-to-read LCD shows temperature and provides navigation for feature programming
- fully alarmed: audible and visual high/low temperature, door open, power failure, low battery
- 6.00" (15.24 cm) 7 day chart recorder available as option
- RS-485 port and dry contacts for data streaming and remote alarming

Full stainless steel cabinet and high quality components

- full stainless steel interior and exterior provide outstanding resistance to rust and corrosion
- dished stainless floor contains spills for easy clean up
- heavy-duty dual casters roll easily and lock securely
- 2.75" (6.98 cm) of CFC-free foam insulation throughout
- four heavy-duty epoxy-coated shelves standard on LB models, six baskets standard on PH models

Heavy-duty door for ease of use and energy savings

- right-hinged dual-pane glass door with ADA-compliant full length locking handle (left hinge available as option)
- 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 and eliminates need for heated doors in most applications
- self-closing hinges lock open at 90 degrees for easy product loading

The industry's best lighting in refrigerator models — cool, energy-efficient LEDs

- full length LED light bars illuminate all shelves or baskets
- instant-on LEDs eliminate delay of fluorescent lights and deliver longer life
- nil heat LEDs consume less energy and allow products to be placed next to lights
- auto on with door opening; ON/OFF front panel switch

Warranty

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

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Accessories

Additional shelves, set of 2 (REF20-LB models – item# 00927251) (REF25-LB models – item# 00927269)

Left hinged door, facing unit (right hinged door standard) – factory installed option[†]

Heated glass door and frame - factory installed[†] (recommended for ambients at, near or above 27 C (80 F), 60% RH)

Integral 6.00" (15.24 cm) 7-day chart recorder – factory installed option[†]

Temperature probe with certificate of traceable calibration, top (item# 00905646)

Replacement 7-day chart recorder paper, C (item# 00918821)

Replacement 7-day chart recorder paper, F (item# 00967729)

Replacement chart recorder pens, set of 6 (item# 00918813)

Digital data logger kit (item# 01057561)

Data logger replacement temperature probe (item# 01057595)

Pyxis® compatible door bracket (item# 00927202)

Omnicell® compatible door bracket (item# 00966432)

medDISPENSE® compatible door bracket (item# 00978296)

AccuDose-Rx (McKesson®) - McKesson bracket provides compatibility with ALL models. No Follett bracket needed.

Glycerine, 16 oz (item# 00959296)

Additional key (item# 00945436)

Wall bracket kit, seismic anchoring (item# 00927194)

[†] Factory installed accessories must be specified at time of order – contact factory for details

Integral 6.00" (15.24 cm) 7-day chart recorder
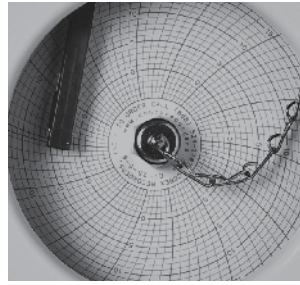
Heavy-duty epoxy coated shelves on LB models

"Floating" basket system on PH models

Upright laboratory & pharmacy refrigerators

Specification

Nominal capacity	REF20 – 19.7 cu ft REF25 – 24.6 cu ft
W1 Width	29.75" (75.6 cm)
D1 Depth with handle	REF20 – 30.50" (77.5 cm) REF25 – 36.50" (92.7 cm)
H1 Height with casters	79.50" (201.9 cm)
Height interior	55.94" (142.1 cm)
D2 Door swing	REF20 – 56.50" (143.5 cm) REF25 – 62.50" (158.8 cm)
Ventilation clearance	10.00" (25.4 cm) top, 2.00" (5.08 cm) back
C1 Electrical 115 V/60/1 (103 - 132 V)	8.4 run load amps, NEMA 5-15 90º hospital-grade plug. Max. fuse 15 amps, 9' (2.7 m) cord.
Door	dual pane glass door
Door lock	cylinder type with key
Door handle	ADA-compliant, full length handle
Door hinges	torsion rod self closing with 90º hold open feature
Storage system	(4) full, epoxy-coated shelves, adjustable in 1/2" increments on LB models, (6) full extension, epoxy-coated baskets on PH models
Overall shelf dimensions (width x depth)	REF20 – 23.38" x 19.50" (59.4 cm x 49.5 cm) REF25 – 23.38" x 25.50" (59.4 x 64.8 cm)
Inside shelf dimensions (width x depth)	REF20 – 23.38" x 19.50" (59.4 cm x 49.5 cm) REF25 – 23.38" x 25.50" (59.4 x 64.8 cm)
Overall basket dimensions (width x length x depth)	REF20 – 23.50" x 20.00" x 6.38" (59.7 x 50.8 x 16.21 cm) REF25 – 23.50" x 26.00" x 6.38" (59.7 x 66.0 x 16.21 cm)
Inside basket dimensions (width x length x depth)	REF20 – 21.75" x 15.25" x 5.88" (55.2 x 38.7 x 14.94 cm) REF25 – 21.75" x 19.25" x 5.88" (55.2 x 48.9 x 14.94 cm)
Space between baskets	8.00" (20.32 cm)
Working load rating per shelf or basket	REF20 – 59 lb (kg) REF25 – 78 lb (kg)
Max. load rating per shelf or basket	REF20 – 88 lb (kg) REF25 – 117 lb (kg)
Gasket	magnetic dart style (replaceable)
Casters	(4) swiveling dual wheel casters with toe locks
Temperature display	3.00" (7.62 cm) LCD display with 0.1º resolution, user selectable C or F
Lighting	(2) energy efficient full length LED lights
C2 3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	(1) RTD type immersible
High and low product temperature alarm	audible and visual, user programmable setpoints in C or F
Power failure alarm	audible and visual
Door ajar alarm	audible and visual, alarms following 1 minute of door open

Dimensional drawing
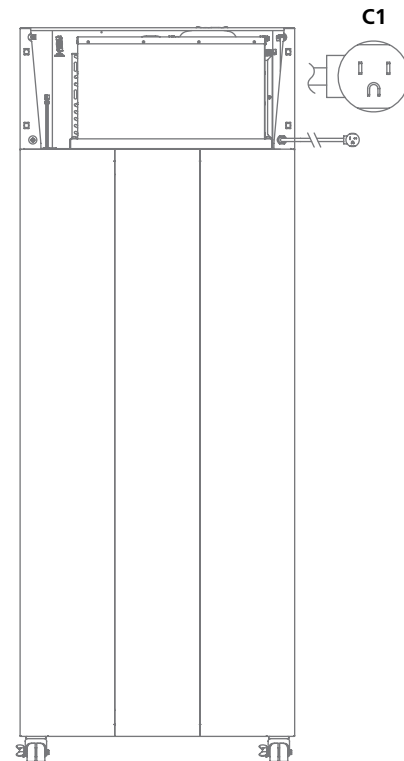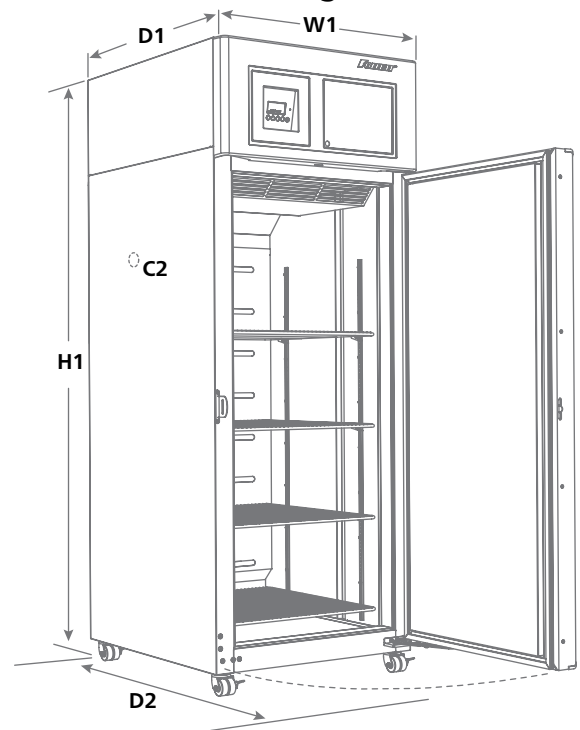
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Specification (continued)

Probe error alarm	visual – product temperature probes, refrigeration and defrost
Alarm mute	default set for 5 minutes ring back, user selectable to 60 minutes
Low battery alert	audible
Alarm volume	high, medium, low, off
Back-up battery status	shows volts and indicates status
Min/max temperature log	shows highest and lowest product temperature since last reset occurred
Temperature probe calibration	top probe calibration in 0.1° increments
Password protection PIN	choose "on" or "off" – 4 digit password to prevent interface setting/selection changes
Date and time	programmable
Product simulation bottle size	(1) 125 ml
Top to bottom temperature consistency	± 1 C (1.8 F)
Remote contacts	NO/NC standard, located behind front panel
Data connection	RS-485, located behind front panel
Refrigeration and defrost probes	NTC thermistor type
Refrigeration cycle with probe error	factory set at 4 min on, 8 off, user adjustable
Refrigeration system	integral top-mounted module with 1/3 hp compressor and air-cooled condenser
Refrigerant and charge	non-CFC R134a refrigerant, 11.4 oz
Air circulation system	ducted air to each storage level through back plenum openings, front face return
Air temperature pull down	24 to 5 C (75 to 41 F) in 30 minutes
Product simulation bottle temperature pull down	24 to 5 C (75 to 41 F) in 90 minutes
Programmable operating range	1.5 to 5 C (30 to 40 F)
Factory preset	0.5 C (to provide 3 to 5 C product temperature storage)
Energy consumption	4.8 kWh/day (auto-off defrost)
Maximum heat rejection	1050 BTU/hr (308 Watts)
Shipping size (width x depth x height)	43.00" x 35.00" x 82.00" (109.2 x 88.9 x 208.3 cm)
Approximate refrigeration module net weight	62 lb (28 kg)
Approximate net weight	REF20-LB models – 290 lb (132 kg) REF25-LB models – 320 lb (145 kg) REF20-PH models – 380 lb (172 kg) REF25-PH models – 415 lb (188 kg)
Approximate ship weight	REF20-LB models – 397 lb (180 kg) REF25-LB models – 430 lb (195 kg) REF20-PH models – 460 lb (209 kg) REF25-PH models – 500 lb (227 kg)

NOTE: For indoor use only

SHORT FORM SPECIFICATION: Upright refrigerator with (choose one) ___ 19.7 cu ft ___ 24.6 cu ft of nominal capacity. To include (choose one) ____ (4) full, epoxy-coated shelves, adjustable in 1/2" increments or ____ 6 full extension, epoxy-coated "floating" baskets. Environmentally responsible R134a refrigeration system to include an integral top-mounted module with 1/3 hp compressor and air-cooled condenser. Display to be 3.00" (7.62 cm) LCD with 0.1 degree resolution and be user selectable to C or F for display and alarming. 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 90° hospital-grade plug. UL listed.

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