

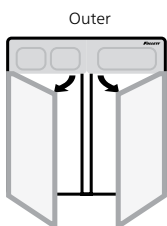
# REF45 Upright

refrigerators for vaccine storage



REFVAC45-PH-00000G shown

Model configurations			
Storage system	Hinge location	Door style	Item number
8 shelves	outer	glass	<b>REFVAC45-LB-00000G</b>
12 baskets	outer	glass	<b>REFVAC45-PH-00000G</b>



## Features

Certified to meet NSF 456 standard for vaccine storage

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 to both sides at six different levels
- auto-evaporating condensate

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
- alarm probe has one-year certificate of NIST-traceable calibration
- 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
- easily accessible quick-connect RTD probe with certificate of NIST-traceable calibration
- dished stainless floor contains spills for easy clean up
- heavy-duty dual casters roll easily and lock securely
- 2.75" (6.98 cm) of CARB compliant non-HFC foam throughout

Heavy-duty door for ease of use and energy savings

- dual-pane glass door with ADA-compliant full length locking handle
- 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 90 degrees for easy product loading

User programmable set points in C or F

Cool, energy-efficient LED lights

- full length LED light bars illuminate all shelves and baskets
- auto on with door opening; ON/OFF front panel switch

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

Certifications (applied to all products unless otherwise noted)



Vaccine Refrigerator  
NSF 456 – E524732  
Commercial Refrigerator  
SAFETY US/CA – SA12646

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## Options and accessories<sup>1</sup>

Replacement "quick connect" RTD probe with certificate of NIST-traceable calibration before serial number Q86639 (item# 01140458)

Replacement "quick connect" RTD probe with certificate of NIST-traceable calibration after serial number Q86638 (item# 01540640)

Replacement high-side refrigeration module (complete condensing unit) (item# 01147891)

Additional shelf (1), REFVAC45-LB (item# 01460708)

Glycerine, 16 oz (item# 00959296)

Wall bracket kit, seismic anchoring (item# 00927194)

For additional accessories, refer to the form# 8665.

NOTE: Accessories ship separately

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## Controls

Temperature display	7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
<b>C1</b> 3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	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	125 ml
Refrigeration and defrost probes	NTC thermistor type
Refrigeration cycle with probe error	factory set at 2 min on, 6 off
Programmable operating range	3.3 to 10 C (38 to 50 F)
Factory preset	5.4 C

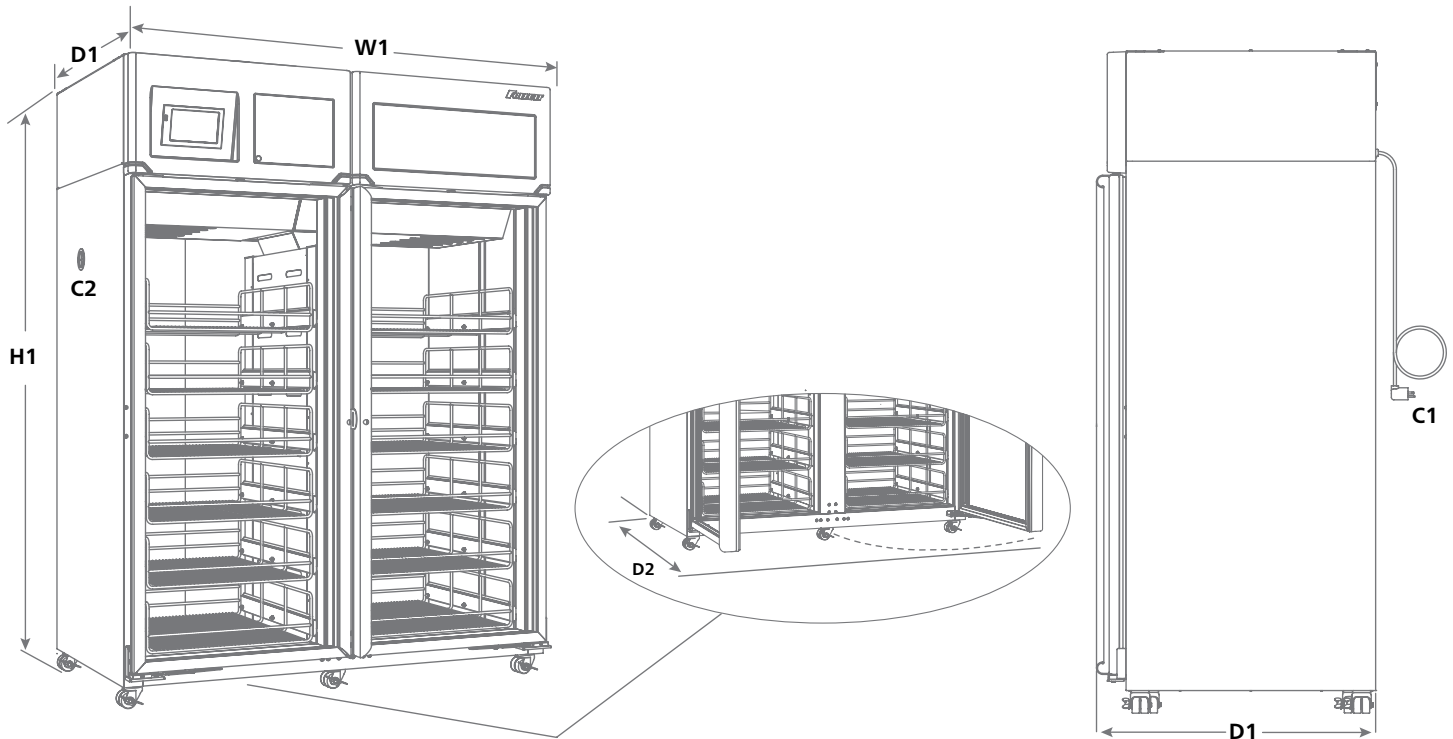
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## Alarming

High and low product temp. alarm	audible and visual
Power failure alarm	audible and visual
Door ajar alarm	audible and visual
Probe error alarm	audible and visual
Alarm mute	10 minute ring-back, adjustable
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, located behind front panel
Information log	graphs or displays temperature data and displays chronological event data (50,000 data points)
Data export	USB export capabilities

<sup>1</sup> Certifications do not apply to options and accessories.

## Dimensional drawing



## Specification

Nominal capacity	45 cu ft (1274 L)
Vaccine storage capacity	REFVAC45-LB – 31.7 cu ft REFVAC45-PH – 31.7 cu ft
Ventilation clearance	16.00" (40.6 cm) top, 2.00" (5.08 cm) back

### Exterior

<b>W1</b> Width	59.75" (151.8 cm)
<b>D1</b> Depth with handle	33.55" (85.2 cm)
<b>H1</b> Height with casters	79.54" (202.0 cm)
Casters	(6) swiveling dual wheel casters with toe locks
<b>D2</b> Door swing	59.55" (151.3 cm)

### Interior

Height	54.31" (138.0 cm) with upper return panel
Lighting	(2) energy efficient full length LED lights
Storage system	(8) epoxy-coated shelves, adjustable in 1/2" (1.27 cm) increments on LB models and (12) full-extension, epoxy-coated roll-out baskets on PH models
Shelf dimensions (LB models) W x D	21.75" x 24.19" (55.2 x 61.4 cm)
Max. number of shelves (LB models)	(6) shelves per side at 8.00" (20.32 cm) spacing
Overall basket dimensions (PH models) W x D x H	22.50" x 24.91" x 6.38" (57.2 x 63.3 x 16.21 cm)
Inside basket dimensions (PH models) W x D x H	21.75" x 24.19" x 5.88" (55.2 x 61.4 x 14.94 cm)
Space between baskets (PH models)	8.00" (20.32 cm) fixed
Max. load rating	125 lb (57 kg) per shelf for LB models and 110 lb (50 kg) per baskets for PH models or

### Door configurations

Door	(2) dual-pane glass door
Door lock	cylinder type with one key per door
Door handle	ADA-compliant, full length

Door hinges	torsion rod self-closing with 90° hold open feature
Gasket	magnetic dart style (replaceable)

## Electrical

<b>C2</b> Electrical 115 V/60/1 (103 - 132 V)	12 full load amps, NEMA 5-20P, 90° hospital-grade plug. Max. fuse 20 amps, 9' (2.7 m) cord.
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## System performance

Top-to-bottom temperature consistency	± 1 C (1.8 F)
Refrigeration system	integral top-mounted modules with 1/2 hp compressor and air-cooled condenser
Refrigerant and charge	non-CFC R134a refrigerant, 13 oz
Air circulation system	ducted air to each storage level through plenum openings
Energy consumption	7.4 kWh/day (auto-off defrost)
BTU/hr normal heat rejection, includes duty cycle (75 F ambient)	1480 BTU/hr (434 W)
BTU/hr maximum (total) heat rejection, continuous operation (75 F ambient)	5240 BTU/hr (1536 W)

## Shipping

Shipping size W x D x H	70.00" x 48.00" x 83.00" (177.8 x 121.9 x 210.8 cm)
Approximate refrigeration condenser module net weight	52 lb (24 kg)
Approximate net weight	LB model – 610 lb (277 kg) PH model – 750 lb (340 kg)
Approximate ship weight	LB model – 750 lb (341 kg) PH model – 890 lb (404 kg)

NOTE: For indoor use only

SHORT FORM SPECIFICATION: NSF/ANSI 456-certified vaccine refrigerators with 45 cu ft (1274 L) of nominal capacity. To include (choose one) \_\_\_\_ full, epoxy-coated shelves, adjustable in 1/2" (1.27 cm) increments (LB models) or \_\_\_\_ full extension, epoxy-coated "floating" baskets (PH models). Each unit comes standard with a one-year certificate of NIST-traceable calibration. Environmentally responsible R134a refrigeration system to include an integral top-mounted module with 1/2 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 CARB compliant non-HFC foam. 9' (2.7 m) power cord with NEMA 5-15 90° hospital-grade plug. UL listed.

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## REF45 NSF 456 certified vaccine refrigerator