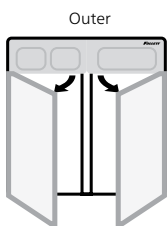


REF45 Upright refrigerators for vaccine storage



REFVAC45-PD-00000G shown

Model configurations			
Storage system	Hinge location	Door style	Item number
8 shelves	outer	glass	REFVAC45-LB-00000G
12 baskets	outer	glass	REFVAC45-PH-00000G
12 drawers	outer	glass	REFVAC45-PD-00000G



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 ± 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
- ships with quick-connect RTD probe with certificate of NIST-traceable calibration easily accessible inside storage cabinet
- 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 drawers
- 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



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

Accessories

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

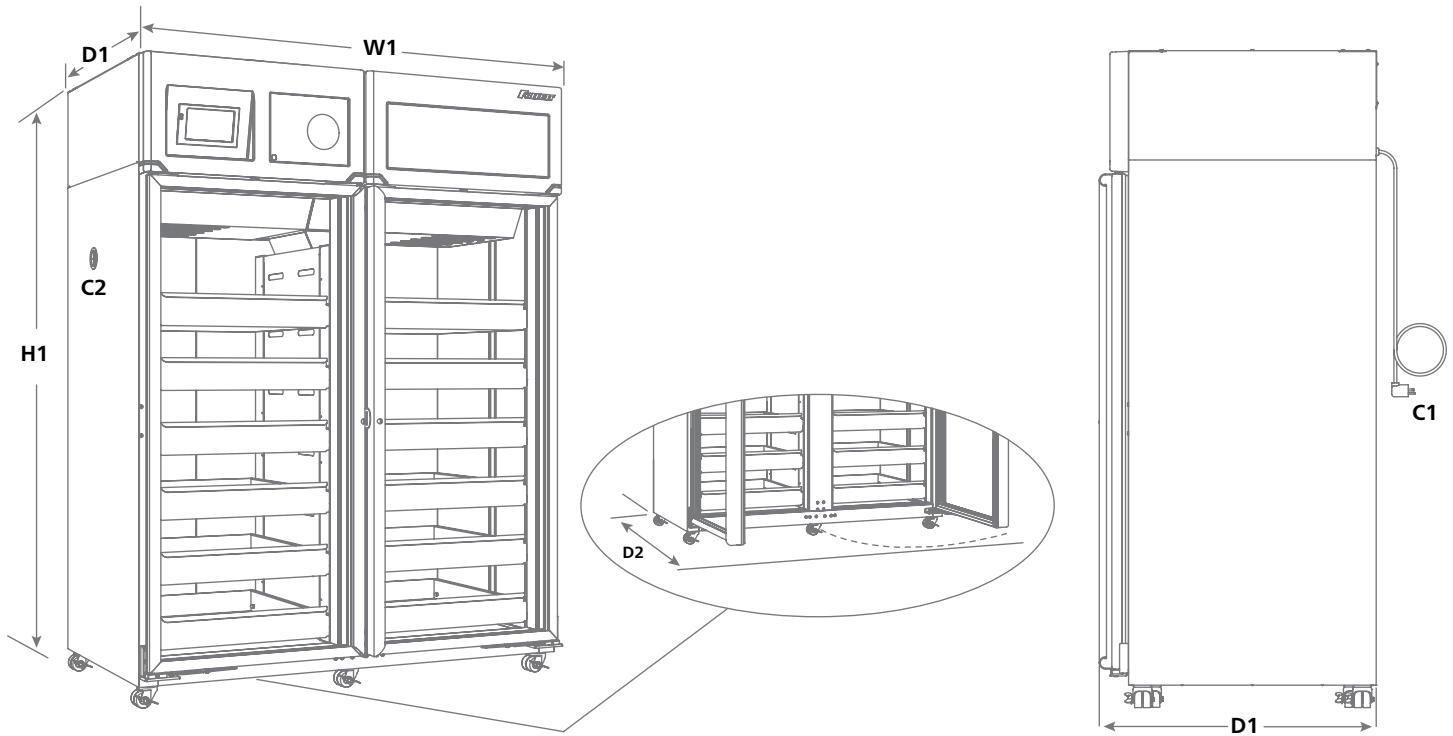
Controls

Temperature display	7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
C1 3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	quick-connect RTD (± 0.4 C, ± 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

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

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 REFVAC45-PD – 33.6 cu ft
Ventilation clearance	16.00" (40.6 cm) top, 2.00" (5.08 cm) back

Exterior

W1 Width	59.75" (151.8 cm)
D1 Depth with handle	33.55" (85.2 cm)
H1 Height with casters	79.54" (202.0 cm)
Casters	(6) swiveling dual wheel casters with toe locks
D2 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, (12) full-extension, epoxy-coated roll-out baskets on PH models and (12) full extension stainless steel drawers on PD models
Shelf dimensions (LB models)	21.75" W x 24.19" D (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)	22.50" W x 24.91" D x 6.38" H (57.2 x 63.3 x 16.21 cm)
Inside basket dimensions (PH models)	21.75" W x 24.19" D x 5.88" H (55.2 cm x 61.4 x cm 14.94 cm)
Space between baskets (PH models)	8.00" (20.32 cm) fixed
Inside drawer dimensions (PD models)	22.50" W x 24.69" D x 3.00" H (57.5 cm x 62.7 cm x 7.62 cm)
Space between drawers (PD models)	8.00" (20.32 cm) fixed
Max. load rating	125 lb (57 kg) per shelf for LB models, 110 lb (50 kg) per baskets for PH models or 117 lb (53 kg) per drawer for PD models

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

C2 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	70.00" W x 48.00" D x 83.00" H (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) PD model – 790 lb (359 kg)
Approximate ship weight	LB model – 750 lb (341 kg) PH model – 890 lb (404 kg) PD model – 930 lb (422 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), ___ full extension, epoxy-coated "floating" baskets (PH models) or ___ full extension, stainless steel drawers with shielded roller bearings and stainless S-tracks (PD 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