

# Upright Refrigerators

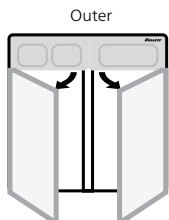
## vaccine storage



REFVAC20/25/45-PD  
REFVAC45-PD-00000G shown

REFVAC20/25/45-LB/PH  
REFVAC20-LB-R0000G shown

Model configurations			
Storage system	Hinge location	Door style	Item number
4 shelves	right	glass	REFVAC20-LB-R0000G
4 shelves	right	glass	REFVAC25-LB-R0000G
8 shelves	outer	glass	REFVAC45-LB-00000G
6 baskets	right	glass	REFVAC20-PH-R0000G
6 baskets	right	glass	REFVAC25-PH-R0000G
12 baskets	outer	glass	REFVAC45-PH-00000G
6 drawers	right	glass	REFVAC20-PD-R0000G
6 drawers	right	glass	REFVAC25-PD-R0000G
12 drawers	outer	glass	REFVAC45-PD-00000G



### 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 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
- 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
- 2.75" (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 (item# 01140458)  
 Replacement CRS (Complete Refrigeration System) module for single door models (item# 00939785)  
 Replacement high-side refrigeration module (complete condensing unit) for double door models (item# 01147891)  
 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
<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	4.4 C single door models, 5.4 double door models

## 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

### REFVAC20

### REFVAC25

### REFVAC45

## Specification

Nominal capacity	19.7 cu ft	24.6 cu ft	45 cu ft
Vaccine storage capacity	REFVAC20-LB – 12.8 cu ft REFVAC20-PH – 12.8 cu ft REFVAC20-PD – 13.8 cu ft	REFVAC25-LB – 16.4 cu ft REFVAC25-PH – 16.4 cu ft REFVAC25-PD – 18.2 cu ft	REFVAC45-LB – 31.7 cu ft REFVAC45-PH – 31.7 cu ft REFVAC45-PD – 33.6 cu ft
Ventilation clearance	10.00" (25.4 cm) top, 2.00" (5.08 cm) back	10.00" (25.4 cm) top, 2.00" (5.08 cm) back	16.00" (40.6 cm) top, 2.00" (5.08 cm) back

## Exterior

<b>W1</b> Width	29.75" (75.6 cm)	29.75" (75.6 cm)	59.75" (151.8 cm)
<b>D1</b> Depth with handle	30.50" (77.5 cm)	36.50" (92.7 cm)	33.55" (85.2 cm)
<b>H1</b> Height with casters	79.50" (201.9 cm)	79.50" (201.9 cm)	79.54" (202.0 cm)
Casters	(4) swiveling dual wheel casters with toe locks	(4) swiveling dual wheel casters with toe locks	(6) swiveling dual wheel casters with toe locks

	REFVAC20	REFVAC25	REFVAC45
<b>D2</b> Door swing	56.50" (143.5 cm)	62.50" (158.8 cm)	59.55" (151.3 cm)
<b>Interior</b>			
Height	55.94" (142.1 cm)	55.94" (142.1 cm)	54.31" (138.0 cm) with upper return panel
Lighting	(2) energy efficient full length LED lights	(2) energy efficient full length LED lights	(2) energy efficient full length LED lights
Storage system	(4) epoxy-coated shelves, adjustable in 1/2" (1.27 cm) increments on LB models, (6) full-extension, epoxy-coated roll-out baskets on PH models and (6) full extension stainless steel drawers on PD models	(4) epoxy-coated shelves, adjustable in 1/2" (1.27 cm) increments on LB models, (6) full-extension, epoxy-coated roll-out baskets on PH models and (6) full extension stainless steel drawers on PD models	(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 19.25" D (55.2 x 48.9 cm)	21.75" W x 24.19" D (55.2 x 61.4 cm)	21.75" W x 24.19" D (55.2 x 61.4 cm)
Overall basket dimensions (PH models)	22.50" W x 20.00" D x 6.38" H (57.2 x 50.8 x 16.21 cm)	22.50" W x 24.91" D x 6.38" H (57.2 x 63.3 x 16.21 cm)	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 19.25" D x 5.88" H (55.2 x 48.9 x 14.94 cm)	21.75" W x 24.19" D x 5.88" H (55.2 x 61.4 x 14.94 cm)	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)	8.00" (20.32 cm)	8.00" (20.32 cm) fixed
Inside drawer dimensions (PD models)	22.50" W x 19.94" D x 3.00" H (57.2 x 50.6 x 7.62 cm)	22.50" W x 25.94" D x 3.00" H (57.2 x 65.4 x 7.62 cm)	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)	8.00" (20.32 cm)	8.00" (20.32 cm) fixed
Max. load rating	88 lb (40 kg) per shelf, basket or drawer	117 lb (53 kg) per shelf, basket or drawer	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
<b>Door configurations</b>			
Door	dual-pane glass door	dual-pane glass door	(2) dual-pane glass door
Door lock	cylinder type with one key	cylinder type with one key	cylinder type with one key per door
Door handle	ADA-compliant, full length	ADA-compliant, full length	ADA-compliant, full length
Door hinges	torsion rod self-closing with 90° hold open feature	torsion rod self-closing with 90° hold open feature	torsion rod self-closing with 90° hold open feature
Gasket	magnetic dart style (replaceable)	magnetic dart style (replaceable)	magnetic dart style (replaceable)
<b>Electrical</b>			
<b>C2</b> Electrical 115 V/60/1 (103 - 132 V)	10.6 run load amps, NEMA 5-15 90° hospital-grade plug. Max. fuse 15 amps, 9' (2.7 m) cord.	10.6 run load amps, NEMA 5-15 90° hospital-grade plug. Max. fuse 15 amps, 9' (2.7 m) cord.	12 full load amps, NEMA 5-20P, 90° hospital-grade plug. Max. fuse 20 amps, 9' (2.7 m) cord.
<b>System performance</b>			
Top-to-bottom temperature consistency	± 1 C (1.8 F)	± 1 C (1.8 F)	± 1 C (1.8 F)
Refrigeration system	integral top-mounted module with 1/3 hp compressor and air-cooled condenser	integral top-mounted module with 1/3 hp compressor and air-cooled condenser	integral top-mounted modules with 1/2 hp compressor and air-cooled condenser
Refrigerant and charge	non-CFC R134a refrigerant, 11.4 oz	non-CFC R134a refrigerant, 11.4 oz	non-CFC R134a refrigerant, 13 oz
Air circulation system	ducted air to each storage level through back plenum opening, front face return	ducted air to each storage level through back plenum opening, front face return	ducted air to each storage level through plenum openings
Energy consumption	5.4 kWh/day (auto-off defrost)	5.4 kWh/day (auto-off defrost)	7.4 kWh/day (auto-off defrost)
BTU/hr normal heat rejection, includes duty cycle (75 F ambient)	955 BTU/hr (280 Watts)	1060 BTU/hr (311 Watts)	1480 BTU/hr (434 W)
BTU/hr maximum (total) heat rejection, continuous operation (75 F ambient)	3185 BTU/hr (933 Watts)	3210 BTU/hr (941 Watts)	5240 BTU/hr (1536 W)

## REFVAC20

## REFVAC25

## REFVAC45

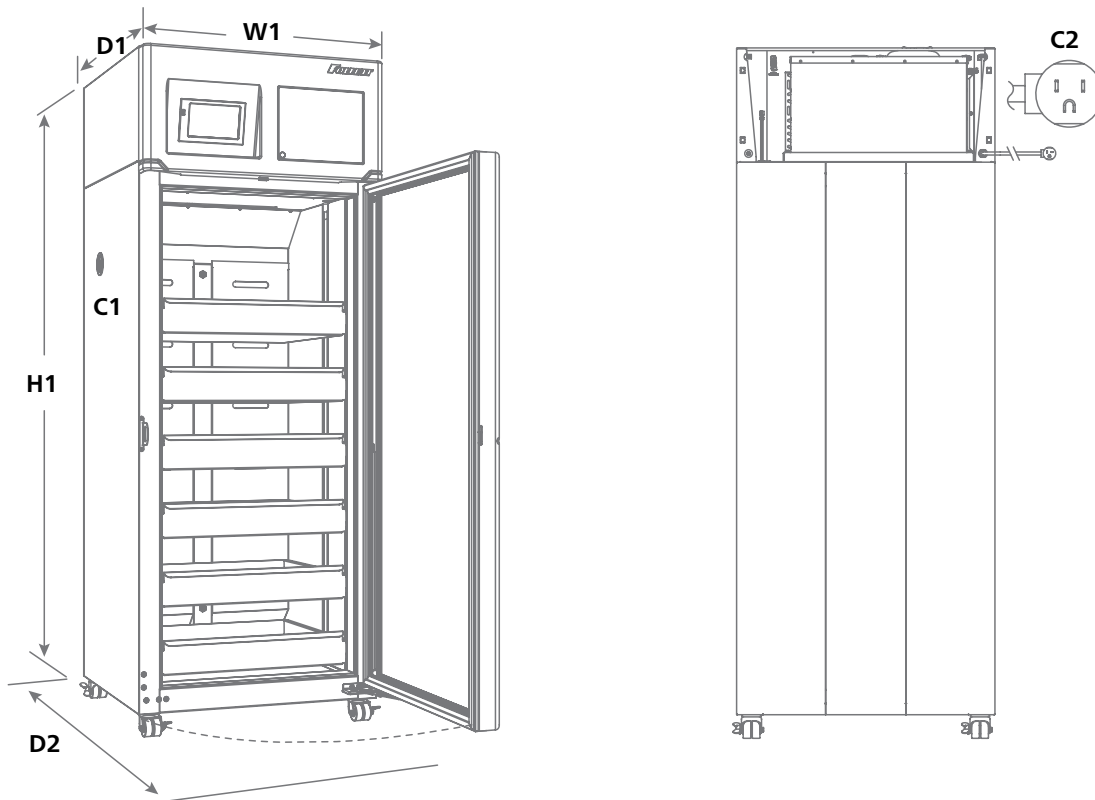
## Shipping

Shipping size	42.00" W x 43.00" D x 86.00" H (106.7 x 109.2 x 218.4 cm)	42.00" W x 43.00" D x 86.00" H (106.7 x 109.2 x 218.4 cm)	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	62 lb (28 kg)	62 lb (28 kg)	52 lb (24 kg)
Approximate net weight	LB model – 290 lb (132 kg) PH model – 380 lb (172 kg) PD model – 390 lb (177 kg)	LB model – 320 lb (145 kg) PH model – 415 lb (188 kg) PD model – 440 lb (200 kg)	LB model – 610 lb (277 kg) PH model – 750 lb (340 kg) PD model – 790 lb (359 kg)
Approximate ship weight	LB model – 410 lb (186 kg) PH model – 473 lb (215 kg) PD model – 488 lb (221 kg)	LB model – 447 lb (203 kg) PH model – 538 lb (244 kg) PD model – 538 lb (244 kg)	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 (choose one) with \_\_\_\_ 19.7 cu ft of nominal capacity or \_\_\_\_ 24.6 cu ft of nominal capacity or \_\_\_\_ 45 cu ft 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 1/3 hp compressor (REFVAC20/25 models) or 1/2 hp compressor (REFVAC45 models) 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.

## Dimensional drawing



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## Refrigerators for vaccine storage