

# Upright Refrigerators

## pharmacy refrigerators with drawers

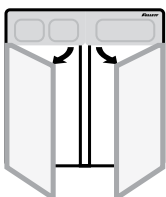


**REF20-PD-R0000G**  
**REF25-PD-R0000G**



**REF45-PD-00000G**

Outer



### 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
- dry contacts for remote alarming

#### Superior drawer system for easy, trouble-free rolling

- 6 full-extension stainless steel drawers in single door models
- 12 (6 per side) full-extension stainless steel drawers in double door model
- stainless steel roller bearings and S-track design eliminate binding and uneven wear
- drawers and slides lift out without tools for easy cleaning
- track/drawer interface minimizes risk of catching product tubing in slides

#### 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(s) 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
- instant-on LEDs eliminate delay of fluorescent lights and deliver longer life
- energy-efficient LEDs allow products to be placed next to lights
- auto on with door opening; ON/OFF front panel switch

Model configurations			
Storage system	Hinge location	Door style	Item number
6 drawers	right	glass	<b>REF20-PD-R0000G</b>
6 drawers	right	glass	<b>REF25-PD-R0000G</b>
12 drawers	outer	glass	<b>REF45-PD-00000G</b>

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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

- Replacement “quick connect” RTD probe with certificate of NIST-traceable calibration, REF12, REF20/25, REFVAC20/25, REF45 and REFVAC45 before serial number Q86639, FZR20/25 and FZRVAC20/25 (item# 01140458)
- Replacement “quick connect” RTD probe with certificate of NIST-traceable calibration, REF45 and REFVAC45 after serial number Q86638 (item# 01540640)
- Replacement high-side refrigeration module (complete condensing unit) (item# 01147891)
- Replacement CRS (Complete Refrigeration System) module, for single door models (item# 00939785)
- Glycerine, 16 oz (item# 00959296)
- Additional key (item# 00945436)
- Wall bracket kit, seismic anchoring (item# 00927194)
- 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>C2</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	3.3 C double door model; 4.4 C single door models

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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

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	REF20	REF25	REF45
<b>Specification</b>			
Nominal capacity	19.7 cu ft	24.6 cu ft	45 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
<b>Exterior</b>			
<b>W1</b> Width	29.75" (75.6 cm)	29.75" (75.6 cm)	59.75" (151.7 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
<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)
Lighting	(2) energy efficient full length LED lights	(2) energy efficient full length LED lights	(2) energy efficient full length LED lights
Storage system	(6) full extension stainless steel drawers	(6) full extension stainless steel drawers	(12) full-extension stainless steel drawers (6 per side)
Inside drawer dimensions	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	8.00" (20.32 cm)	8.00" (20.32 cm)	8.00" (20.32 cm) fixed
Max. load rating per drawer	88 lb (40 kg)	117 lb (53 kg)	117 lb (53 kg)
<b>Door configurations</b>			
Door	dual-pane glass door	dual-pane glass door	(2) dual-pane glass
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>C1</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, dedicated circuit, 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	ducted air to each storage level through back plenum opening	ducted air to each storage level through center plenum openings
Air temperature pull down	24 to 5 C (75 to 41 F) in 30 minutes	24 to 5 C (75 to 41 F) in 30 minutes	27 to 4 C (80 to 39 F) in 60 minutes
Product simulation bottle temperature pull down	24 to 5 C (75 to 41 F) in 120 minutes	24 to 5 C (75 to 41 F) in 120 minutes	27 to 4 C (80 to 39 F) in 6 h (to 6 C (43 F) in 2 h 40 min)
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)

REF20

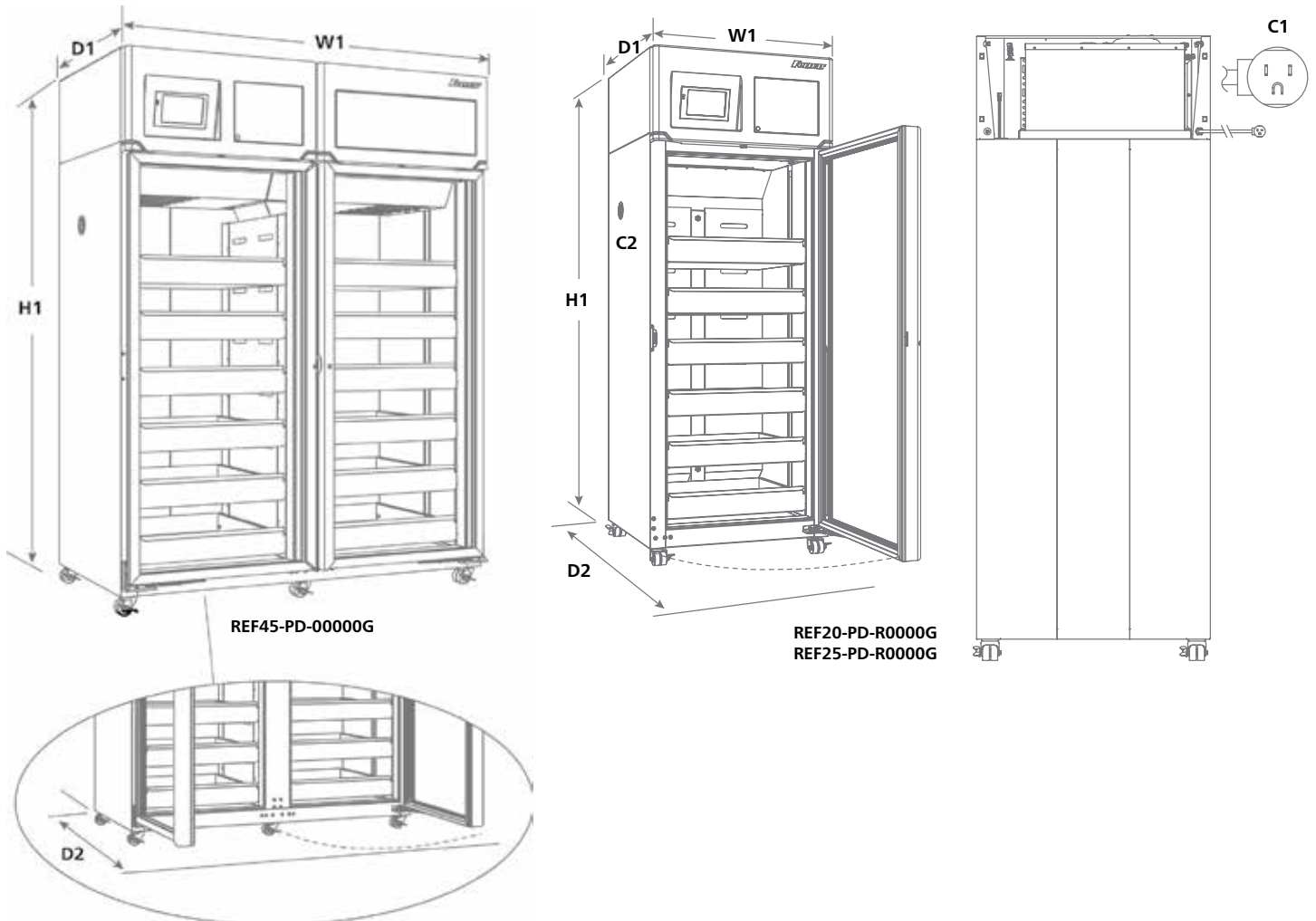
REF25

REF45

## 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	390 lb (177 kg)	440 lb (200 kg)	790 lb (359 kg)
Approximate ship weight	488 lb (221 kg)	538 lb (244 kg)	930 lb (422 kg)
NOTE: For indoor use only			

## Dimensional drawing



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