

# REF45 Upright

double door pharmacy refrigerators



## 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 center 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
- dry contacts for remote alarming

Superior slides for easy, trouble-free rolling

- twelve (six per side) full-extension epoxy-coated baskets
- stainless steel roller bearings and S-track design eliminate binding and uneven wear
- baskets and slides lift out without tools for easy cleaning
- track/basket 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

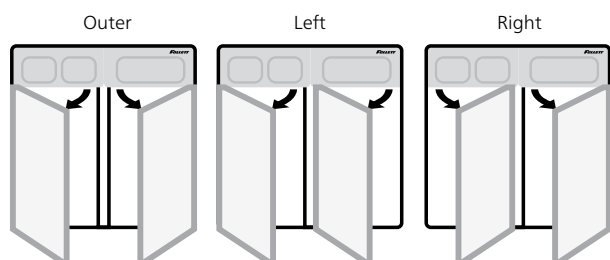
Heavy-duty door for ease of use and energy savings

- dual-pane glass door or solid stainless 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 and eliminates need for heated doors in most applications
- self-closing hinges lock open at 90 degrees for easy product loading

Cool, energy-efficient LED lights

- full length LED light bars illuminate all baskets
- 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	Hinging	Heated door	Keypad	Door style	Item number
12 baskets	outer	yes	yes	heated glass	REF45-PH-0HTKPG
12 baskets	outer	yes	no	heated glass	REF45-PH-0HT00G
12 baskets	outer	no	yes	glass	REF45-PH-000KPG
12 baskets	outer	no	yes	stainless steel	REF45-PH-000KPS
12 baskets	outer	no	no	glass	REF45-PH-00000G
12 baskets	outer	no	no	stainless steel	REF45-PH-00000S
12 baskets	right	yes	no	heated glass	REF45-PH-RHT00G
12 baskets	right	no	no	glass	REF45-PH-R0000G
12 baskets	right	no	no	stainless steel	REF45-PH-R0000S
12 baskets	left	yes	no	heated glass	REF45-PH-LHT00G
12 baskets	left	no	no	glass	REF45-PH-L0000G
12 baskets	left	no	no	stainless steel	REF45-PH-L0000S



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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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## Factory-installed options:

Integral keypad and electronic locking system with keyed access manual override (available on outer-hinged units only)

Keypad integral to touchscreen controls; electronic locking mechanism opens both doors simultaneously

Heated glass door and frame (recommended for ambients above 27 C (80 F), 60% RH)

NOTE: Factory-installed options must be specified at time of order – for details contact factory or your local sales representative.

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## Accessories

Replacement “quick-connect” RTD probe with certificate of NIST-traceable calibration (item# 01140458)

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

Pyxis® compatible door bracket, available on one outside handled door of right or left hinged models only (item# 00927202)

Omniceil® compatible door bracket, available on one outside handled door of right or left hinged models only (item# 00966432)

medDISPENSE® compatible door bracket, available on one outside handled door of right or left hinged models only (item# 00978296)

Glycerine, 16 oz (item# 00959296)

Wall bracket kit, seismic anchoring (item# 00927194)

NOTE: Accessories ship separately.

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### Touchscreen display



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### “Floating” basket system on PH models



## Specification

Nominal capacity	45 cu ft (1274 L)
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	(12) full-extension epoxy coated baskets
Overall basket dimensions	22.50" W x 24.91" D x 6.38" H (57.2 x 63.3 x 16.21 cm)
Inside basket dimensions	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	8.00" (20.32 cm) fixed
Max. load rating per basket	110 lb (50 kg)

## Door configurations

Door	(2) dual-pane glass, argon filled with low-E coating (heated opt) or stainless steel
Door lock	cylinder type with one key per door
Door handle	ADA-compliant, full length handle
Door hinges	torsion rod self-closing with 90° hold open feature
Gasket	magnetic dart style (replaceable)

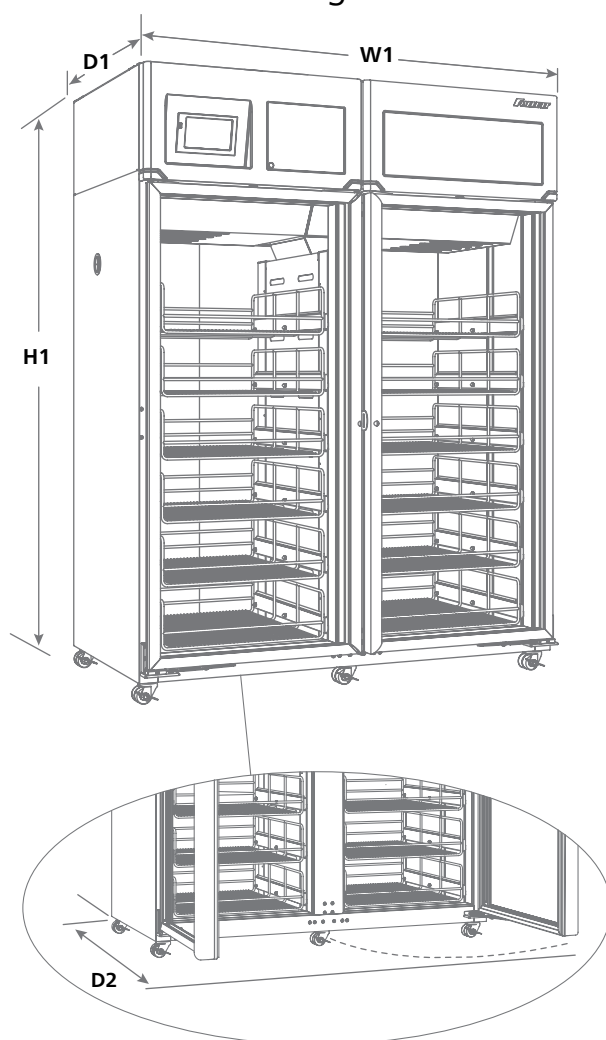
## Electrical

Electrical 115 V/60/1 (103 - 132 V)	12 full load amps, NEMA 5-20P, 90° hospital-grade plug, 9' (2.7 m) cord.
Maximum size of branch circuit overcurrent device	20 amps dedicated circuit

## Controls

Temperature display	7" LCD capacitive touchscreen digital temperature display available in user-programmable C or F
3rd party probe access	soft access port on left side of cabinet
Product temperature display probe	(1) quick-connect RTD (± 0.4 C, ± 0.7 F)
Temperature probe calibration	top 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	(1) 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

## Dimensional drawing



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## Alarming

High and low product temperature alarm (top probe)	audible and visual, user programmable set points in C or F
Power failure alarm	audible and visual
Door ajar alarm	audible and visual
Probe error alarm	audible and visual — product temperature probes, refrigeration and defrost
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

## Data logging

Information log	graphs or displays temperature data and displays chronological event data (50,000 data points)
Data export	USB export capabilities

## 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
Air temperature pull down	27 to 4 C (80 to 39 F) in 30 minutes
Product simulation bottle temperature pull down	27 to 4 C (80 to 39 F) in 5 h 45 min (to 8 C (46 F) in 1 h 50 min)
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" L 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	750 lb (340 kg)
Approximate ship weight	890 lb (404 kg)
NOTE: For indoor use only	

SHORT FORM SPECIFICATION: Upright double door refrigerator with 45 cu ft of nominal capacity. To include (12) full-extension, epoxy-coated baskets. Environmentally responsible R134a refrigeration system to include top-mounted modules 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 distributes cold air to both sides at 6 different levels. Storage area to be insulated with CARB compliant non-HFC foam. 9' (2.7 m) power cord with NEMA 5-20 90° hospital-grade plug. UL listed.

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