

REF45 Upright

double door pharmacy refrigerators



Features

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 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

- 12 (6 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

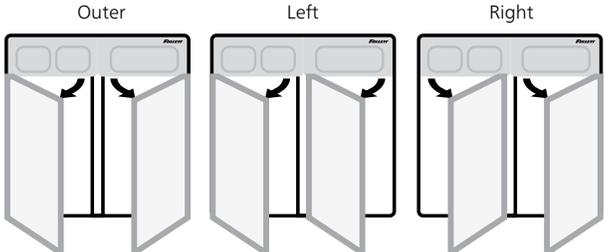
Heavy-duty door for ease of use and energy savings

- 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



Features (continued)

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



Commercial Refrigerator
SAFETY US/CA – SA12646

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.

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)

Additional key for glass door (item# 00945436)

Additional key for stainless steel door (item# 01035013)

Wall bracket kit, seismic anchoring (item# 00927194)

NOTE: Accessories ship separately.

Touchscreen display



“Floating” basket system on PH models



Specification

Nominal capacity	45 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	(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 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)

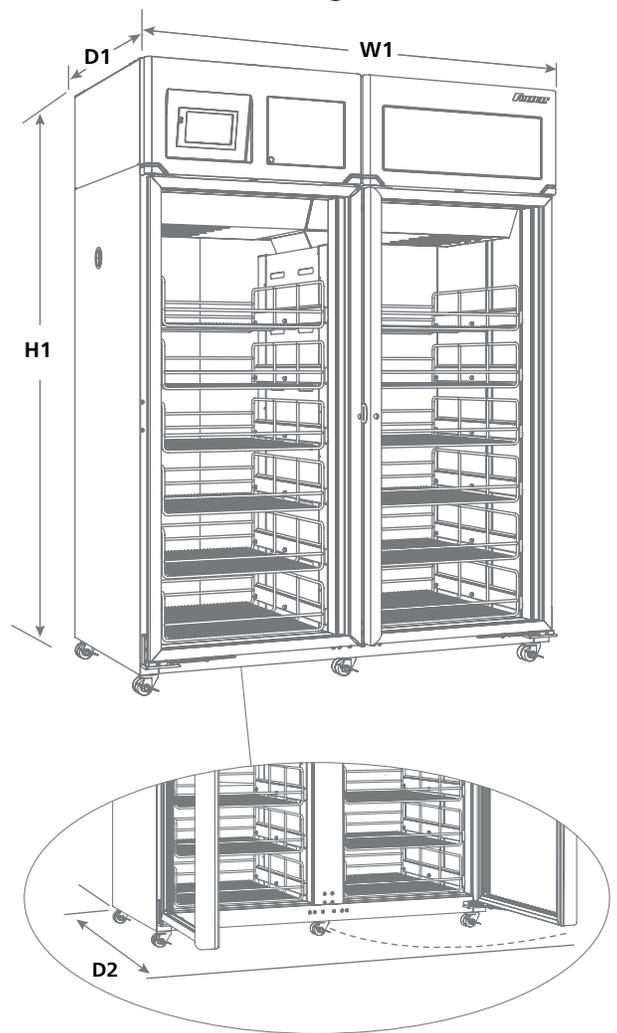
Electrical

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



Omniceil is a registered trademark of Omnicell, Inc. in the United States. Pyxis is a registered trademark of CareFusion in the United States and other countries. medDISPENSE is a registered trademark of InterMetro Industries Corp. in the United States and other countries. FOLLETT and FOLLETT HEALTHCARE are registered trademarks of Follett Products, LLC, registered in the US. Follett reserves the right to change specifications at any time without obligation.

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.