

# FREF30 Upright

laboratory refrigerators



Glass door

## Features

Powerful refrigeration system with low GWP refrigerant for high performance and reduced total cost of ownership

- exclusive top-mounted modular Complete Refrigeration System (CRS)
- all refrigeration components external to storage compartment for greater usable capacity
- high volume airflow design for faster temperature recovery and uniform temperature

Protection for your valuable products

- audible and visual high/low temperature and door open alarms
- dry contacts for remote alarming
- access port for third party monitoring
- key door lock
- rear mounted on/off power switch

Precise temperature control

- microprocessor control with digital temperature display
- factory preset at +4 C (adjustable from +1 C to +12 C)

Laboratory-grade cabinet construction

- full steel exterior provides resistance to rust and corrosion
- white painted antimicrobial interior
- internal rounded corners
- heavy-duty dual casters roll easily and lock securely
- 2.36" (5.99 cm) of CARB compliant non-HFC foam throughout
- four (4) epoxy-coated shelves standard, maximum of six (6) shelves per unit

Heavy-duty door for ease of use and energy savings

- self-closing hinges lock open at 105 degrees for easy product loading
- energy efficient low-E glass coating to reduce energy loss
- glass remains condensation-free to 27 C (80 F) at 60% RH

Engineered for sustainability

- R290 low GWP refrigerant
- high density foamed in place insulation (Kyoto Protocol compliant)
- energy-efficient LED lights
- SNAP compliant
- cULus Listed and UL Energy Verified

Warranty

- 2 years parts and labor, 3 year compressor parts only

Certifications (applied to all products unless otherwise noted)



Model configurations – Laboratory			
Hinging	Heated door	Door style	Item number
right	yes	glass	<b>FREF30-LB-RGD</b>
left	yes	glass	<b>FREF30-LB-LGD</b>

Model configurations – Chromatography			
Hinging	Heated door	Door style	Item number
right	yes	glass	<b>FREFCR30-RGD†</b>

† Includes internal GFCI receptacle.

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## Accessories<sup>1</sup>

Replacement CRS (Complete Refrigeration System) module (item# 01394451)

Additional shelf (1) (item# 01394147)

NOTE: Maximum of six (6) shelves per unit.

NOTE: Accessories ship separately.

<sup>1</sup> Certifications do not apply to factory-installed options and accessories.

## Specification

Nominal capacity	31.8 cu ft (900 L)
Ventilation clearance	15.00" (38.1 cm) top, 2.00" (5.08 cm) back

## Exterior

<b>W1</b> Width	32.25" (82.0 cm)
<b>D1</b> Depth with handle	39.25" (99.7 cm)
<b>H1</b> Height with casters	81.50" (207 cm)
Casters	(4) swiveling dual wheel casters (2) with toe locks
<b>D2</b> Door swing	67.72" (172 cm)
Wall bracket, seismic anchoring	standard, factory installed

## Interior

Height	59.84" (152 cm)
Lighting	full length LED light on handle side of door
Storage system	(4) full, epoxy-coated shelves, maximum of (6) shelves per unit
Shelf dimensions	26.40" W x 30.71" D (67.0 x 78.0 cm)
Max. load rating per shelf	100 lb (45 kg)

## Door configurations

Door	dual-pane glass door (non-field reversible)
Door lock	cylinder type with key
Door handle	bar type
Door hinges	torsion rod self-closing with 105° hold open feature
Gasket	magnetic dart style (replaceable)

## Electrical

<b>C1</b> Electrical 115 V/60/1 (103 - 132 V)	5.4 run load amps, hospital-grade NEMA 5-15P plug, 118" (3.0 m) cord
Maximum size of branch circuit overcurrent device	15 amps dedicated circuit

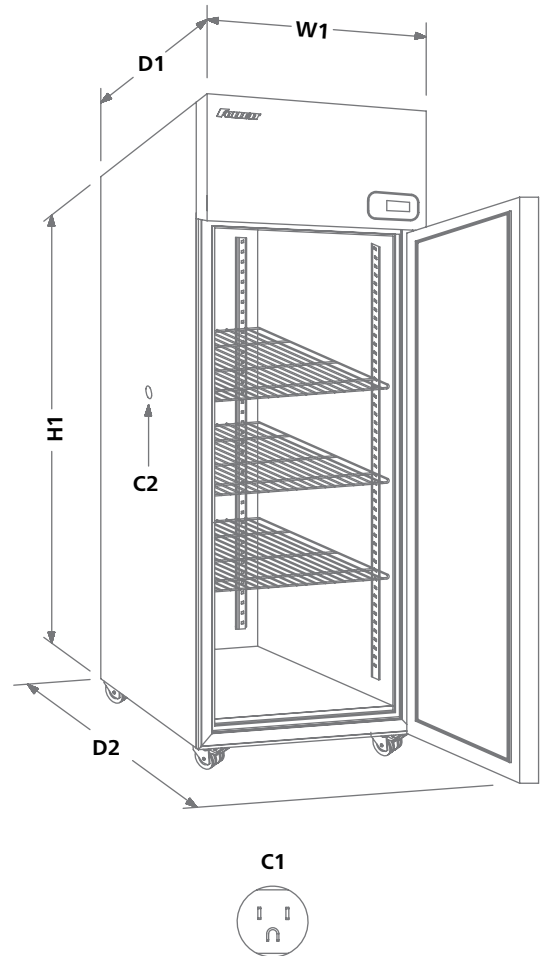
## Controls

Temperature display	standard 7 segment LED
<b>C2</b> 3rd party probe access	soft access port on left side of cabinet
Temperature probe calibration	top probe calibration in 0.1° increments
Refrigeration and defrost probes	NTC thermistor type ( $\pm 1.0$ C, $\pm 1.8$ F)
Programmable operating range	1 to 12 C (34 to 54 F)
Factory preset	4 C

## Alarming

High and low product temperature alarm	audible and visual (preprogrammed)
Door ajar alarm	audible and visual
Probe error alarm	audible and visual
Alarm mute	with press of key
Remote contacts	NO/NC standard, located on back of unit

## Dimensional drawing



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## System performance

Refrigeration system	integral top-mounted module with 1/3 hp compressor and air-cooled condenser
Refrigerant and charge	low GWP R290 refrigerant, 3.5 oz
Air circulation system	evaporator with air-forced ventilation
Energy consumption	1.69 kWh/day (auto-off defrost)

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## Shipping

Shipping size	33.80" W x 40.60" D x 88.30" H (86 x 103 x 224 cm)
Approximate refrigeration module net weight	77 lb (35 kg)
Approximate net weight	419 lb (190 kg)
Approximate ship weight	467 lb (212 kg)

NOTE: For indoor use only

SHORT FORM SPECIFICATION: 31.8 cu ft (900 L) upright 4 C refrigerator with (4) adjustable epoxy-coated wire shelves. Low GWP R290 refrigeration system includes an integral top-mounted module with 1/3 hp compressor and air-cooled condenser. Microprocessor control with digital display in degrees C. High density foamed in place insulation (Kyoto Protocol compliant). Full suite of audible and visual alarms. 118" (3.0 m) power cord with NEMA 5-15P hospital-grade plug.

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