



Explosion-Proof Storage Refrigerators and Freezers



Explosion-proof refrigerator/freezer combinations, left to right, single door Model XLR414A, undercounter Model XLR45A, and double door Model XDR414A.



Puffer Hubbard explosion-proof refrigerators and freezers are designed to meet NFPA and OSHA standards

for safe storage of volatile materials. A variety of UL Listed cabinets offer capacities to fit an array of space and volume requirements. All electrical components are steel-encased, and cabinet interiors are spark-proof with a non-sparking magnetic door gasket. Foamed-in-place CFC-free urethane insulation protects against high ambient temperatures.

Standard Features

Cabinet Capacity:

Refrigerators; 14.0 and 20.7 cu.ft.

Refrigerator/Freezer Combinations;
See chart.

Freezers; 4.7 to 20.7 cu.ft.

Operating Temperature:

Refrigerators; +2°C to +10°C;
(freezer compartments -12°C to -18°C.)

Freezers; -12°C to -20°C.

Inventory System: Interior shelving with door storage shelves. Combination refrigerator/freezer models include slide-out bulk storage drawer.

Refrigeration System: Quiet, hermetically sealed compressor.

Defrost: Manual; built-in defrost drain on 14.0 and 20.7 cu.ft. models.

Cabinet Construction: Foamed-in-place CFC-free urethane insulation helps minimize operating cost. Interior is corrosion-resistant, easy to clean and spark-proof. Electrical components steel-encased. Adjustable leveling feet.

Door(s): Non-sparking magnetic gasket.

Electrical: Must be hard-wired in accordance with local codes.

Finish: White acrylic, scratch-resistant exterior.

All models are designed for safe storage of volatile materials in hazardous areas. All models meet NFPA and OSHA standards, and UL requirements for Class 1, Group C and D applications.



This Product is intended for basic laboratory use only. Storage of high value life science materials or critical biologicals may require alarm, monitoring, back-up and temperature performance features. The need to add these features should be determined by your industrial hygienist or safety officer.

Explosion-proof freezers, left to right, Models XLR45A (compact refrigerator/freezer combination); XLR421A; and XLR416A.

Specifications

Upright Refrigerators, +2°C to +10°C Operating Temperature

Model No.	Voltage/Hz	Amps/ Breaker*	Cu. Ft./ Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
XLR416A	115/60	1.8/15	14.0/396	3/6	51.5"H x 18"F-B x 27"W 130.8cm x 45.7cm x 68.6cm	65.5"H x 32"F-B x 32"W 166cm x 81cm x 81cm	235/107
XLR421A	115/60	1.8/15	20.7/586	4/6	57"H x 23"F-B x 27"W 144.8cm x 58cm x 68.6cm	70.2"H x 34"F-B x 32"W 178cm x 86cm x 81cm	250/114

Refrigerator/Freezer Combinations

Model No.	Voltage/Hz	Amps/ Breaker*	Cu. Ft./ Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
XLR45A Undercounter	115/60	1.1/15	3.5/99 Ref 1.2/34 Frz	3/3	Ref: 21.1"H x 15.5"F-B x 18.5"W 53.6cm x 39.4cm x 47cm Frz: 7.2"H x 15"F-B x 18.5"W 18.3cm x 38.1cm x 47cm	33.8"H x 29"F-B x 21.3"W 85.9cm x 73.7cm x 54.1cm	105/48
XLR414A Single Door	115/60	2.1/15	9.2/278 Ref 1.1/31 Frz	5/10	Ref: 44.5"H x 18.5"F-B x 20.5"W 113cm x 47cm x 52.1cm Frz: 8.9"H x 12"F-B x 18.1"W 22.6cm x 30.5cm x 46cm	63"H x 29.5"F-B x 23.5"W 160.8cm x 75cm x 60cm	195/89
XDR414A Double Door	115/60	3.8/15	10.2/289 Ref 2.4/68 Frz	5/8	Ref: 47.5"H x 18"F-B x 20.6"W 120.6cm x 45.7cm x 53.3cm Frz: 13.5"H x 17.3"F-B x 17.5"W 34.3cm x 43.9cm x 44.5cm	70"H x 29.5"F-B x 23.4"W 178cm x 75cm x 59cm	205/93

-20°C Freezers

Model No.	Voltage/Hz	Amps/ Breaker*	Cu. Ft./ Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
XUF1805A	115/60	1.0/15	4.7/133	2/3	29.3"H x 15"F-B x 18.5"W 74.4cm x 38.1cm x 47cm	33.8"H x 29"F-B x 21.3"W 85.9cm x 73.7cm x 54.1cm	105/48
XUF1816A	115/60	1.8/15	14.5/411	3/5	51.5"H x 18"F-B x 27"W 130.8cm x 45.7cm x 68.6cm	65.5"H x 32"F-B x 32"W 166cm x 81cm x 81cm	235/107
XUF1821A	115/60	1.8/15	20.7/586	4/6	57"H x 23"F-B x 27"W 144.8cm x 58cm x 68.6cm	70.2"H x 34"F-B x 32"W 178cm x 86cm x 81cm	250/114

*Explosion-proof refrigerators and freezers must be hard-wire connected in accordance with local electrical codes. Access ports, casters and extra shelving are not available for explosion-proof units.



Flammable Material Storage Refrigerators and Freezers



Flammable material storage refrigerator/freezer combinations, left to right, single door Model FLR414A, undercounter Model FLR45A, and double door Model FDR414A.



Designed to ensure maximum safety for storage of flammable and volatile materials, these refrigerators, combination refrigerator/freezer cabinets and -20°C freezers meet NFPA and OSHA standards and are all UL Listed. All Puffer Hubbard flammable material storage cabinets feature CFC-free foamed-in-place cabinet insulation, hermetically sealed refrigeration compressors and adjustable temperature control.

Standard Features

Cabinet Capacity:

Refrigerators; 17.0 to 20.7 cu.ft.
Refrigerator/Freezer Combinations;
See chart.
Freezers; 4.7 to 20.7 cu.ft.

Operating Temperature:

Refrigerators; +2°C to +10°C; (freezer compartments -12°C to -18°C.)
Freezers; -12°C to -20°C.

Inventory System: Interior shelving with door storage shelves. Combination refrigerator/freezer models include slide-out bulk storage drawer.

Refrigeration System: Quiet, hermetically sealed compressor.

Defrost: Manual; built-in defrost drain on 14.0 and 20.7 cu.ft. models.

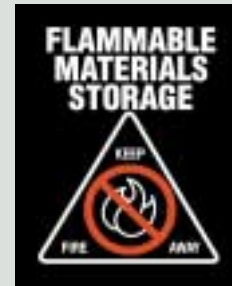
Cabinet Construction: Heavy-gauge steel. CFC-free foamed-in-place urethane insulation helps minimize operating cost. Interior is corrosion-resistant, easy to clean and spark-proof. Electrical components steel-encased. Adjustable leveling feet.

Door(s): Non-sparking magnetic gasket.

Finish: White acrylic, scratch-resistant exterior.



Flammable material storage refrigerators, Model FLR421A, left; Model FLR416A right.



This Product is intended for basic laboratory use only. Storage of high value life science materials or critical biologicals may require alarm, monitoring, back-up and temperature performance features. The need to add these features should be determined by your industrial hygienist or safety officer.

Specifications

Upright Refrigerators, +2°C to +10°C

Model No.	Voltage/Hz	Amps/Breaker	Cu.Ft./Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
FLR416A	115/60	1.8/15	14.0/396	3/6	51.5"H x 18"F-B x 27"W 131cm x 46cm x 68.6cm	65.5"H x 28.2"F-B x 32"W 166cm x 72cm x 81cm	235/107
FLR421A	115/60	1.8/15	20.7/586	4/6	57"H x 23"F-B x 27"W 145cm x 58cm x 68.6cm	70.2"H x 30.2"F-B x 32"W 178cm x 77cm x 81cm	250/114

Refrigerator/Freezer Combinations

Model No.	Voltage/Hz	Amps/Breaker	Cu.Ft./Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
FLR45A Undercounter	115/60	1.1/15	3.5/99 Ref 1.2/34 Frz	3/3	Ref: 21.1"H x 15.5"F-B x 18.5"W 53.6cm x 39.4cm x 47cm Frz: 7.2"H x 15"F-B x 18.5"W 18.3cm x 38.1cm x 47cm	33.8"H x 29"F-B x 21.3"W 85.9cm x 73.7cm x 54.1cm	105/48
FLR414A Single Door	115/60	2.1/15	9.2/278 Ref 1.1/31 Frz	5/10	Ref: 44.5"H x 18.5"F-B x 20.5"W 113cm x 47cm x 52.1cm Frz: 8.9"H x 12"F-B x 18.1"W 22.6cm x 30.5cm x 46cm	63"H x 29.5"F-B x 23.5"W 160.8cm x 75cm x 60cm	195/89
FDR414A Double Door	115/60	3.8/15	10.2/289 Ref 2.4/68 Frz	5/8	Ref: 47.5"H x 18"F-B x 20.6"W 120.6cm x 45.7cm x 53.3cm Frz: 13.5"H x 17.3"F-B x 17.5"W 34.3cm x 43.9cm x 44.5cm	70"H x 29.5"F-B x 23.4"W 178cm x 75cm x 59cm	205/93

-20°C Freezers

Model No.	Voltage/Hz	Amps/Breaker	Cu.Ft./Liters	Shelves Interior/Door	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight lbs./kg
FUF1805A	115/60	1.0/15	4.7/133	2/3	29.3"H x 15"F-B x 18.5"W 74.4cm x 38.1cm x 47cm	33.8"H x 25.1"F-B x 21.3"W 86cm x 64cm x 54cm	105/48
FUF1816A	115/60	1.8/15	14.5/411	3/5	51.5"H x 18"F-B x 27"W 131cm x 46cm x 68.6cm	65.5"H x 28.2"F-B x 32"W 166cm x 72cm x 81cm	235/107
FUF1821A	115/60	1.8/15	20.7/586	4/6	57"H x 23"F-B x 27"W 145cm x 58cm x 68.6cm	70.2"H x 30.2"F-B x 32"W 178cm x 77cm x 81cm	250/114

Flammable material refrigerators and freezers are designed for storage of volatile materials but are not intended for use in hazardous areas. All models meet OSHA standards and applicable UL requirements. Access ports, casters and extra shelving are not available for flammable storage units.