

MPR-715F-PA | REFFZR21-GS



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Pharmaceutical

Refrigerator with Freezer
EPA SNAP Compliant Refrigerants

+2°C to +14°C Refrigerator
-20°C to -30°C Freezer

14.7 cu.ft. | 415 L
6.2 cu.ft. | 176 L

This space-saving cabinet combines both refrigerator and freezer functions within a single footprint. It is designed for use as a pharmaceutical or vaccine refrigerator or a biomedical or general use freezer. The slim profile permits quick access to all products. Because less lab floor space is required, this model can be located in narrow hallways.

Independent Cooling Systems

Separate refrigeration systems create independently controlled chambers. The freezer system maintains temperatures as low as -30°C. The refrigerator compartment operates at temperature setpoints over a range of +2°C to 14°C. The integrated refrigeration system is engineered for quiet operation.

Defrost

The refrigerator includes a unique automatic defrost system which activates electronically when needed. The refrigerator operates above freezing at all times. This prevents sensitive vaccines, reagents and other materials from accidental freezing. The freezer can be defrosted manually when required.

Superior Uniformity

Forced air circulation through a back wall plenum in the refrigerator provides even air distribution for precise temperature uniformity and efficient temperature recovery to setpoint quickly following routine door openings. The freezer is configured with a cold wall cooling system with external coils strategically positioned within the insulation for excellent uniformity.



Sustainable Refrigerants

Each of the two refrigeration circuits uses environmentally friendly refrigerants that will not compromise reliability or operational performance. These refrigerants enable the system to recovery setpoint temperature quickly following door openings, and to resist high ambient temperatures.



Microprocessor Control Panel

The microprocessor temperature controller maintains accurate temperature at desired setpoint, and responds quickly to changes in ambient temperature and door openings. Audible and flashing LED visual alarms alert the user to any temperature deviations from setpoint. Both refrigerator and freezer temperatures are independently displayed on the control panel.



Access, Storage and Security

The refrigerator includes two insulated doors with triple pane glass viewing windows. Heat reflection film minimizes condensation from ambient humidity. The freezer has insulated solid doors. A keyed door lock assures inventory security. Refrigerator has three adjustable wire shelves and the freezer has two wire shelves.

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SNAP Refrigerants and Compliance with EPA Recommendations

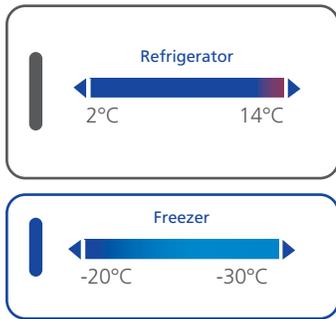
This model operates on new generation SNAP compliant, low flammability HFO refrigerants to assure low environmental impact. The use of SNAP compliant refrigerants (Significant New Alternatives Policy) established by the United States Environmental Protection Agency affirms our commitment to environmental sustainability by integrating the latest refrigeration technology. For information on SNAP refrigerants visit <https://www.epa.gov/snap>

Validated Storage

The PHCbi pharmaceutical refrigerator freezer combination is designed to assure stored product safety to meet CDC and third-party guidelines for vaccine and biological material storage.

Refrigerator Defrost Temperature Data

The automatic defrost system eliminates temperature spikes to maintain safe storage conditions. Stored products see stable temperature at all times.



Dimensions

Unit : inch | mm

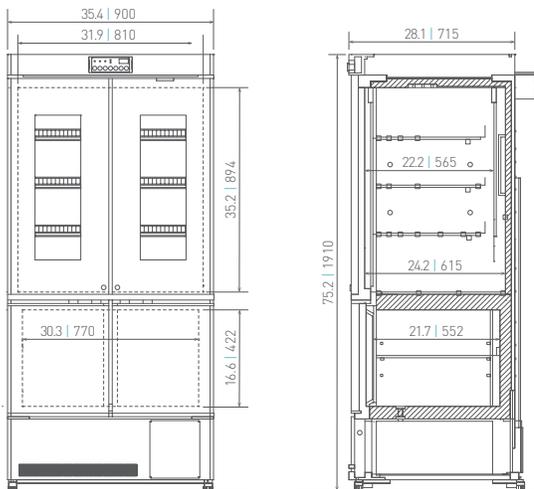


Illustration shown for Model MPR-715F-PA | REFFZR21-GS.
Dimensions apply to models with windows and models with solid doors.

Model Number		MPR-715F-PA REFFZR21-GS refrigerator / freezer
External Dimensions (W x D x H) nominal	inches mm	35.4 x 28.1 x 75.2 900 x 715 x 1910
Internal Dimensions (W x D x H) nominal	inches mm	31.9 x 24.2 x 35.2 810 x 615 x 894 15.1 x 21.7 x 16.6 385 x 552 x 422 (each chamber)
Volume	cu.ft. liters	14.7 415 / 6.2 176
Net Weight	lbs. kg	357 162
Chambers	qty	1-Top / 2-Lower
Performance		
Warranty ¹⁾		2 years parts and labor, 3 years compressor parts
Temperature Control Range	°C	+2 to +14 / -15 to -30
Vaccine Storage Operating Temperature	°C	+2 to +8 / -15 or colder
Factory Pre-Set Temperature	°C	+5 / -30
Highest Ambient Temperature and Maintains Cabinet Temperature	°C	+30
Protects Vaccine from Freezing		Operates above freezing at all times
Control		
Microprocessor Controller, Adjustable	°C	Increments of 1 - Independently controls refrigerator & freezer
Digital Temperature Display		LED
Controller Security		Lockable with key pad
Electronics Diagnostics		Total control system
Refrigeration		
Cooling Method Internal Airflow for Precise Temperature		Forced air / Direct cold wall cooling
Defrost Method		Automatic ²⁾ / Manual
Refrigeration System	qty	2- Independent Air cooled, CFC free
Refrigerant ³⁾		SNAP Approved HFO R-513A
Insulation		CFC free urethane
Construction		
Outer Door, Swing door with CFC Insulation	qty	2-Top, Bi-parting with dual pane glass 2-Bi-parting, Solid
Interior		Painted steel / Painted steel
Exterior		Zinc galvanized steel, Acrylic finish
Outer Door Lock	qty	1-Key, Center left, Locks top left and lower left 1-Key, Center right, Locks top right and lower right
Interior Light	qty	1- LED, control panel switch / 0
Shelves	qty	(3) Adjustable, Wire / (2) Wire
Casters	qty	2-Swivel, 2-Fixed
Adjustable Feet	qty	2- Front of base, for securing unit in place
Access Port	qty	2- Side wall, Left top and bottom / 0
Access Port Diameter	inches mm	1.1 30
Alarms (V = Visual, B = Buzzer, R = Remote)		
Power Failure		V-B-R
High Temperature		V-B-R
Low Temperature		V-B-R
Door Open		V-B
Remote Alarm Contacts		Normally open, Normally closed, Common
Remote Alarm Output		DC 24V 2A
Electrical and Noise Level		
Power Supply		115V, 1Ø, 60Hz, NEMA 5-15P requires 5-15R receptacle
Noise Level ⁴⁾	dB(A)	43

¹⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only

²⁾ Electronically monitored defrost only when needed. Protects vaccines from freezing

³⁾ Compliant with SNAP Acceptability Determination https://www.epa.gov/sites/production/files/2016-09/documents/snap_notice_31_factsheet.pdf

⁴⁾ Nominal value, background noise 20 dB(A)

Specifications are subject to change without notice.

Performance data herein is based on independent testing at time of publication.



PHC Corporation of North America