PHCbi

Pharmaceutical
Refrigerator with Freezer

MPR-N250FH-PA
MPR-N250FSH-PA

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

6.3 cu.ft. | 179 L
2.8 cu.ft. | 80 L

ECO natural refrigerants

IC+ inverter controlled

The PHCbi brand Pharmaceutical Refrigerator with Freezer offers a complete storage solution in one cabinet. The MPR-N250FH/FSH-PA combines high-performance refrigeration with a -30°C freezer in a small footprint for flexible, reliable and convenient vaccine and biological material storage. Refrigerated and frozen products can be stored within a single footprint. Natural refrigerants minimize environmental impact for a sustainable storage solution.

MPR-N250FH-PA

Excellent Uniformity

The refrigerator and freezer compartments provide excellent uniformity throughout. Temperatures remain stable wherever products are stored, even in a loaded chamber. The refrigerator is engineered to prohibit inadvertent freezing of temperature sensitive vaccines.

Independent Refrigeration Systems

The single cabinet includes two independent temperature controlled chambers with separate refrigeration systems. The refrigerator section operates on a high efficiency inverter compressor running at variable speed upon demand to reduce energy consumption. New EPA SNAP compliant refrigerants help meet facility sustainability goals and lower global environmental impact.

Security Control and Monitoring

The microprocessor controller and softkey interface are door mounted at eye level. An OLED alphanumeric display provides convenient, secure user management. Refrigerator and freezer temperature can be displayed simultaneously or individually. Minimum/maximum temperatures are automatically displayed every 24 hours. All alarm conditions are displayed and recorded. Data transfer is available through a USB port.

PERFORMANCE

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Temperature Distribution

Temperature uniformity is maintained at all storage levels even at full load conditions. This provides even, horizontal airflow across the solid adjustable glass shelves at all shelf levels to assure optimum temperature uniformity under full load conditions.

Natural Refrigerants

Hydrocarbon refrigerants help achieve facility sustainability objectives by minimizing any environmental impact without compromising cooling performance, ambient tolerance and recovery speeds following door openings.

Easy to Use, Intuitive Operation

Adjustable audible and visual alarms are standard, along with integrated system diagnostics and predictive performance supervision. The password-protected control panel provides security and minimizes risk of accidental changes in setpoint.

PHC Corporation of North America

Pharmaceutical Refrigerator with Freezer

Slim Profile Cabinet Design

The space saving, ergonomic design comes in a solid door model (MPR-N250FSH-PA) or model MPR-N250FH-PA with a triple-paned viewing window. The compact footprint permits easy installation in narrow aisles and hallways for greater flexibility. Independent key lock increases security on the refrigerator and freezer compartments.

Maximized Storage

Both compartments of this model feature a spacious capacity within the overall small footprint. The refrigerator compartment has an effective capacity of 179L and includes three adjustable, tempered glass shelves. The solid shelf construction eliminates tipping of bottles and vials. A rear wall LED light is included for product viewing. The freezer compartment has an effective capacity of 80L and includes one hard steel wire polyethylene coated shelf.

Model MPR-N250FSH-PA with solid door for storage of light-sensitive products.

Defrost Methods

Both models include manual defrost for the freezer compartment. The refrigerator compartment includes an automatic defrost, which activates electronically when needed. The refrigerator evaporator operates above freezing at all times. This prevents vaccines and lab supplies from freezing.
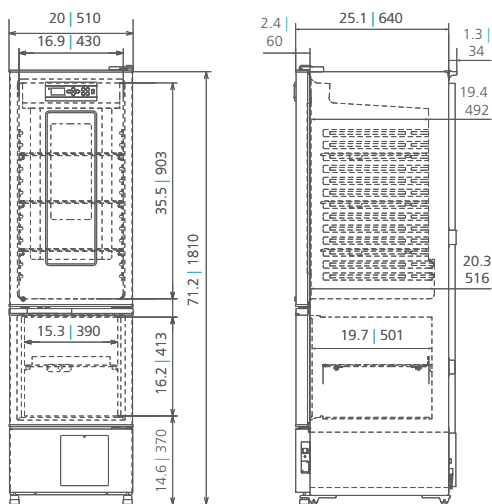
Dimensions

Unit : inch | mm

Illustration shown for Model MPR-N250FH-PA. Dimensions apply to models with windows and models with solid doors.

Model Number		MPR-N250FH-PA refrigerator / freezer	MPR-N250FSH-PA refrigerator / freezer
Exterior Dimensions (W × D × H) [1]	inches | mm	20 × 25.1 × 71.2 | 510 × 640 × 1810	
Interior Dimensions (W × D × H)	inches | mm	16.9 × 20.3 × 35.5 | 430 × 516 × 903 15.3 × 19.7 × 16.2 | 390 × 501 × 413	
Volume	cu. ft. | liters	6.3 | 179 / 2.8 | 80	
Net Weight	lbs | kg	210 | 95	201 | 91
Performance			
Warranty [2]		3 years parts and labor	
Cooling Performance [3]	°C	+2 to +14 (max +2) / -30 to -20 (max -30)	
Temperature Setting Range	°C	+2 to +14 / -30 to -20	
Control			
Controller		Microprocessor, softkey data entry, password protected	
Display		White graphic OLED	
Temperature Display		Select refrigerator, freezer or concurrent	
USB Logging Function		Logs 3 months of data at 1 minutes intervals	
Refrigeration			
Compressor	W	(1) 120, inverter / (1) 120	
Natural Refrigerant		HC R-600a / HC R-290	
Construction			
Exterior and Interior Material		Colored steel / ABS resin (REF) | Painted steel (FRZ)	
Insulation Material, SNAP Compliant		Polyurethane foam-in-place, CFC free	
Key Lock		(1) Standard, locks top refrigerator and lower freezer	
Shelves	qty	(3) Tempered glass, adjustable / (1) PE coated wire	
Shelf Dimension (W × D)	inches | mm	14.6 × 14.96 | 371 × 380	
Max. Load Per Shelf	lbs | kg	44 | 20 / 22 | 10	
Max. Load – Total	lbs | kg	132 | 60 / 66 | 30	
Access Port	inches | mm	(1) Back wall, left 1.2 | 30 (1) Lower back middle 1.2 | 30	
Casters	qty	4 (plus 2 leveling feet on front base)	
Alarms (V=Visual, B=Buzzer, R=Remote Alarm Contacts, A=Adjustable, D=Settable Delay, L=Logged)			
High and Low Temperature		V-B-R-A-D-L	
Power Failure		R	
Power Failer With Optional Battery Kit		V-B-R-L	
Fan, Compressor, Inverter		V-B-R-L	
Sensor Error		V-B-L	
Door Open		V-B-A-D	
Freeze Warning		V-B-R-L	
LED Chamber Lighting		Adjustable on/off/on door opening (refrigerator only)	
Min/Max Temperature Logging		Included	
Remote Alarm Contact		Yes	
Electrical and Noise Level			
Power Supply		115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle	
Noise Level [4]	dB (A)	40	
Temperature Recorders			
BTU Output	btu/hr	956	
Circular Type, Dual Pen	6", 7 day circular	MTRC955	
Chart Paper	52 charts per box	C740306REV	
Ink Pen, Red	pack of 6	R252	
Ink Pen, Blue	pack of 6	R252	
Accessories			
Black-Out Panel for Photosensitive Product		MPR-25BP-PW	–
Battery Kit For Power Failure Alarm		MPR-48B2-PW	
Analog Temperature Transmitter		MTR420MAC	
Optional Communication System			
Wireless, Cloud-Based, Automatic Data Management		LabAlert® Monitoring System	

[1] External dimensions of main cabinet only. Excluding the door handle and other external projections
[2] Current warranty offered at time of printing and may be subject to change; US and Canada only
[3] Air temperature measured at freezer center, ambient temperature +30°C, no load
[4] Nominal value – background noise 20 dB(A)

Specifications are subject to change without notice.
For latest specification information contact PHC Corporation of North America at info@us.phchd.com.