



MPR-N450FH

MPR Natural Refrigerant Pharmaceutical Refrigerator with Freezer



462 L (R: 326L / F: 136L)

Providing a complete storage solution; refrigerator and freezer in one unit. The MPR-N450FH combines high-performance refrigeration with a -30°C freezing environment within a small footprint for flexible, reliable and convenient sample storage. Natural refrigerants minimise environmental impact for a sustainable storage solution.

Environmentally Friendly Storage Solution

Naturally occurring hydrocarbon (HC) refrigerants have minimal effect on the environment and are compliant with environmental legislation for climate control. Combined with inverter technology, these refrigerants also provide more efficient cooling and lower running costs.

Stable, Uniform Temperatures

Inverter compressor (refrigerator compartment) can run at a range of speeds depending on the cooling requirement, ensuring a stable temperature. A duct system ensures uniform temperature distribution throughout the refrigerator and fast recovery of temperature after routine door openings to minimise fluctuation.

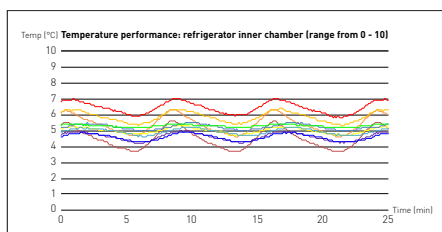
Precise Control & Intelligent Monitoring

A microprocessor controller and accurate sensors maintain precise refrigerator and freezer temperatures that are displayed simultaneously on an OLED panel. A USB port provides simple and convenient transfer of logged data to a PC including temperature, door opening times and alarm history.



Environmentally Friendly

Ideal for laboratories looking to reduce their carbon footprint and environmental impact to comply with sustainability policies.



High Performance Sample Storage

MPR Refrigerators are designed specifically for laboratory applications, with precise performance even under demanding conditions.



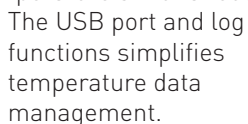
Two Temperatures, One Unit

Secure storage at both freezing and refrigerated temperatures, within a minimal footprint, is an ideal solution for installation in smaller spaces.



One unit with dual temperature control requires minimal installation space. Four-door design reduces air loss during door opening and makes efficient use of space in front of the unit. Two specially designed compressors offer quiet operation for installation in busy working environments without disruption.

The OLED panel has good visibility and intuitive operation. It displays detailed temperatures with increment of 0.1°C, minimal and maximal temperature for every 24 hours and can show refrigerator and freezer temperature simultaneously.



Multiple safety systems such as high/low temperature audible and visual alarms, remote alarm and door open alarm are standardly equipped. The refrigerator and freezer compartment can be locked separately. Optional temperature recorders for the refrigerator and freezer compartment can be installed.

Removable glass shelves inside the refrigerator compartment enables easy cleaning. Clear visibility inside the refrigerator compartment is established by a LED light.

Optional containers for the freezer compartment are available for flexible storage solutions.



Model Number		MPR-N450FH-PE	
		Refrigerator	Freezer
Dimensions			
External Dimensions (W x D x H) ¹⁾	mm	800 x 640 x 1810 ¹⁾	
Internal Dimensions (W x D x H)	mm	720 x 516 x 913 (refrigerator)	680 x 470 x 415 (Freezer)
Volume	litres	326	136
Net Weight	kg	129	
Performance			
Temperature control range ²⁾	°C	2~ 14 ²⁾	-20~ -30 ²⁾
Control			
Controller		Microprocessor with non-volatile memory	
Display		Digital (White graphic Organic LED), 1 °C (increment of 0.1)	
Temperature sensor		Thermistor	
Refrigeration			
Cooling Method		Fan forced air circulation	Direct cooling
Defrost method		Cyclical defrost	Manual
Refrigerant		R-600a	R-290 (HC refrigerant)
Insulation		PUF	
Construction			
Exterior Material		Painted Steel	
Interior Material		ABS Resin	Painted Steel
Outer Doors	qty	4, glass window (2)	
Outer Door Lock		Y	Y
Shelves	qty	Tempered glass (3)	Coated steel wires (2)
Max. load - per shelf	kg	25	15
Max. load - total	kg	105	
Access Port	qty	Two ports available R(1), F(1)	
- Position		Back	
- Diameter	Ø mm	30	
Casters	qty	4	
Interior light		LED	
Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)			
Power Failure ³⁾		R ³⁾	
High Temperature		V-B-M-R	
Low Temperature		V-B-M-R	
Door open		V-B-M	
Electrical and Noise Level			
Power Supply	V	230V 50Hz single phase	
Noise Level ⁴⁾	dB [A]	41	
Options			
Temperature recorders		-	-
Temperature chart recorders		MTR-0621LH-PE	-
Chart paper		RP-06-PW	-
Recorder housing		MPR-S30-PW	-
Circular type		MTR-G3504C-PE	MTR-G3504C-PE
Chart paper		RP-G3504-PW	
Ink pen		PG-RB-PW	
Recorder housing		MPR-S7-PW	-
Continuous strip type		-	MTR-4015LH-PE
Chart paper		-	RP-40-PW
Recorder housing		-	MPR-S30-PW
Battery kit for power failure alarm		MPR-48B2-PW ⁵⁾	
Containers inside freezer		-	MPR-45FSC-PW ⁵⁾
Door window blanking plates		MPR-45BP-PW	-

Appearance and specifications are subject to change without notice.

PUF = Rigid polyurethane foamed insulation
V = Visual alarm
B = Buzzer alarm
M = Message
R = Remote alarm

¹⁾ Exterior dimensions of main cabinet only, excluding handle (no handle available) and other external projections - See dimensions drawings on website for full details

²¹ Air temperature measured at refrigeration compartment centre and freezer

³⁾ Requires optional battery kit for power failure alarm MPR-48B2-PW

⁴⁾ Nominal value - Background noise 20dB[A]

⁵¹ MPR-45FCS-PW is a set of 2 containers. Two sets of MPR-45FCS-PW are required to fill the complete freezer compartment.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

