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-30°C Biomedical Freezers

369 L / 504 L

Stable -30°C environment with extensive storage possibilities.

PHCbi medical freezers are equipped with various features that enable flexibility and maintain the quality of the samples during preservation such as height-adjustable shelf trays and separate top and bottom doors that suppress cold air leakage. Users can choose the model that meets their specific needs.

Height-adjustable shelf trays

By installing the refrigerant piping in the frame of the unit <u>instead</u> of in shelf trays as in

conventional models, the unit enabled completely height-adjusta ble shelf trays



Maintains the quality of the samples during preservation

Equipped with doors that suppress the leakage of cold air during opening and closing, and manual defrosting that helps avoid temperature impact on the samples.

Superior energy conservation

Improvements in the fan motor (ON/OFF controls) has led to reduction in power consumption compared to our previous models.* *The actual energy consumption may vary depending on the use



Adjusts the inside of the chambers according to the size of the samples By changing the height of the shelf trays, the unit can accommodate chamber containers of various sizes including storage boxes of conventional models. The slim-type allows for the space between equipment to be used effectively.



Security functions that help protect valuable samples

With a temperature control capability that inhibits the change in temperature inside the chamber, and an alarm/security function that prevents errors, the unit maintains the quality of the preserved samples.



Reduces energy costs of the facility

Replacing a conventional model with this model can save on energy costs. Save even more by replacing multiple units.

Life Science Innovator Since 1966

PHC Corporation, Biomedical Division

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Easy disposal of water used for defrosting

Even the cumbersome task of disposing water used for defrosting becomes easy with the drainage hose that is attached to the main unit. (Hose is usually stowed away when not in usel

Easy to operate control panel

Button-type control panel is easy to operate. All inputs including temperature and alarm settings can be selected on the panel.



Lockable door latch

To securely preserve/manage the valuable samples, In addition to a standard-feature door lock, a hole in the latch allows a padlock to be attached.

Storage containers useful for organizing

The standard storage containers are useful for dividing small items and allow for efficient sample storage.



Unit : mm (inch)

Dimensions





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Model Number		MDF-MU339-PE	MDF-MU539-PE	
External dimensions (W x D x H) 1	mm	616 x 770 x 1802	793 x 770 x 1802	
Internal dimensions (W x D x H)	mm	472 x 614 x 1262	649 x 614 x 1262	
Volume	litres	369	504	
Netweight	ka	135	163	
Performance	ng	100	100	
Cooling performance ^{2]}	°C	-30		
Temperature setting range ^{2]}	•r	-35 to -18		
Temperature setting range	°C	-30 to -20		
	U	-30 (0 -20		
Controllor		Microprocessor, po	n velatila momenu	
Display				
		Thermister		
Definition				
		Direct		
Compressor	W	250		
Refrigerant		HEC		
Insulation material		PUE		
Insulation thickness	mm	70		
Construction			, 	
Exterior material		Painted Steel		
Interior material		Painted Steel		
Outer door	atv	1	2	
Outer door lock		Yes		
Shelves	gty	6		
Max. load - per shelf	ka	30		
Access port	qty	1		
Access port position		Back		
Access port diameter	Ømm	30		
Casters	gty	4 [2 levelling feet]		
Accessories				
Storage containers	qty	6	12	
Inner dimension	mm	W420 x D552 x H157	W280 x D552 x H157	
Key	set	1		
Defrost spatula	рс	1		
Alarms	-	(V = Visual Alarm, B = Buzzei	r Alarm, R = Remote Alarm)	
Power failure		V-B-R		
High temperature		V-B-R		
Low temperature		V-B-R		
Electrical and Noise Level		I		
Power supply	V	220/230/240		
Frequency	Hz	50		
Noise level 3)	dB (A)	42		
Options		·		
မ မ မ မ Circular type		MTR-G85C-PE — Chart paper: RP-G85-PW — Ink pen: PG-R-PW — Recorder housing: MPR-S7-PW		
E O - Continuous strip type		MRT-4015LH-PE — Chart paper: RP-40-PW — Recorder housing: MPR-S30-PW		

MTR-480-PW Digital interface (RS232C/RS485)^{4]} Ethernet interface [LAN]^{4]} MTR-L03-PW Certification ISO 9001

¹⁾ External dimensions of main cabinet only, excluding handle and other external projections.
²⁾ Air temperature measured at freezer centre, ambient temperature 35°C (MDF-MU339) / 30°C (MDF-MU539), no load.

³⁾ Nominal value - Background noise 20 dB[A] ⁴⁾ Only for MTR-5000 (data acquisition system) users.

 Appearance and specifications are subject to change without notice.
 Caution: PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.

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Preservation Equipment, Experimental Environment Equipment, Dispensary Equipment, Culturing Equipment and Drying & Sterilising Equipment for General Laboratory use The management of the design, development, production and servicing of the above.

1-1-1 Sakada, Oizumi-machi, Ora-gun, Gunma 370-0596, Japan



PHC Corporation, Biomedical Division is certified for: Environmental management system: IS014001



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https://www.phchd.com/global/biomedical/ Printed in Japan 1303-2018-04-BB

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