



MDF-MU339

## -30°C Biomedical Freezers

369 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 instead of in shelf trays as in conventional models, the unit enabled completely height-adjustable 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.



### 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.

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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 use)

### 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.

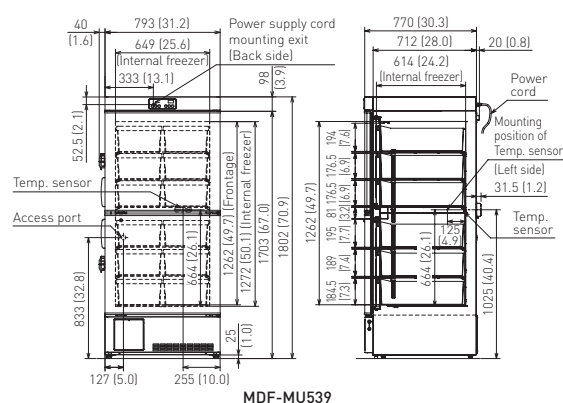
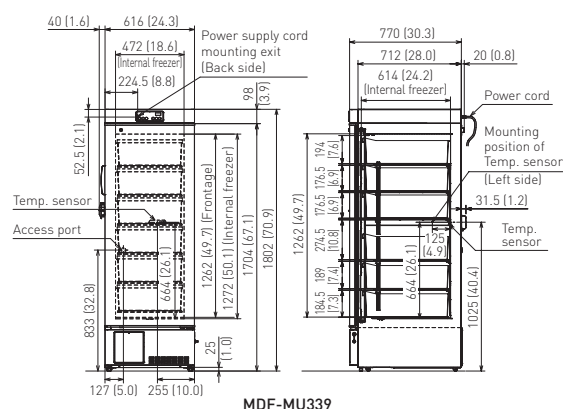
### Storage containers useful for organizing

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



### Dimensions

Unit : mm (inch)



Model Number		MDF-MU339-PE
External dimensions (W x D x H) <sup>1)</sup>	mm	616 x 770 x 1802
Internal dimensions (W x D x H)	mm	472 x 614 x 1262
Volume	litres	369
Net weight	kg	135
Performance		
Cooling performance <sup>2)</sup>	°C	-30
Temperature setting range <sup>2)</sup>	°C	-35 to -18
Temperature control range <sup>2)</sup>	°C	-30 to -20
Control		
Controller		Microprocessor, non-volatile memory
Display		LED
Temperature sensor		Thermistor
Refrigeration		
Cooling method		Direct
Compressor	W	250
Refrigerant		HFC
Insulation material		PUF
Insulation thickness	mm	70
Construction		
Exterior material		Painted Steel
Interior material		Painted Steel
Outer door	qty	1
Outer door lock		Yes
Shelves	qty	6
Max. load - per shelf	kg	30
Access port	qty	1
Access port position		Back
Access port diameter	Ø mm	30
Casters	qty	4 [2 levelling feet]
Accessories		
Storage containers	qty	6
Inner dimension	mm	W420 x D552 x H157
Key	set	1
Defrost spatula	pc	1
Alarms		(V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm)
Power failure		V-B-R
High temperature		V-B-R
Low temperature		V-B-R
Electrical and Noise Level		
Power supply	V	220/230/240
Frequency	Hz	50
Noise level <sup>3)</sup>	dB (A)	42

<sup>1)</sup> External dimensions of main cabinet only, excluding handle and other external projections.

<sup>2)</sup> Air temperature measured at freezer centre, ambient temperature 35°C (MDF-MU339) / 30°C (MDF-MU539), no load.

<sup>3)</sup> Nominal value - Background noise 20 dB(A)

<sup>4)</sup> 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.



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.  
PHC Corporation, Biomedical Division  
1-1-1 Sakada, Oizumi-machi, Ora-gun, Gunma 370-0596, Japan



PHC Corporation, Biomedical Division is certified for:  
**Environmental management system: ISO14001**

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**Indonesia Sole Distributor**

Jl. Agung Utara Raya Blok A36D/42, Sunter Agung, Tanjung Priok , Jakarta Utara, 14350. Indonesia

Telp : 021-64716568, 70240088, 87960123, 87960456

Fax : 021- 64716555

Email : [sigmabimed@indo.net.id](mailto:sigmabimed@indo.net.id), [sales@sigmabimed.com](mailto:sales@sigmabimed.com)

Website : [sigmabimed.com](http://sigmabimed.com)

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