

(碳氫冷媒、變頻系統、低結霜設計)



MDF-DU700ZHA

FrosTech

Natural Refrigerants Ultra-Low Temperature Freezer

-86°C to -40°C



725 L

Ultra-low temperature storage solution for valuable samples.

FrosTech is designed to minimize the down-time and workload of defrosting. FrosTech features VIP Panel insulation of the inner doors, newly designed door packings and a new frame pipe layout that all work together to reduce the build-up of ice. It reduces the frequency of defrosting and makes it more comfortable to use.

V.I.P. PLUS-insulated inner doors

To reduce the amount of ice build-up, FrosTech freezers feature inner doors insulated with PHCbi's advanced insulation system V.I.P. PLUS.

Natural refrigerants and inverter technology

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 without compromising cooling performance, ambient tolerance, and recovery speeds following door openings.



Reliable controllability and data log function

Large colour LCD touchpanel is accurately controlled even with a gloved hand, while the USB port makes transferring logged data of product's operational status to a PC convenient.

Model Number	MDF-DU700ZHA-PA	
External dimensions [W x D x H] ¹⁾	mm	1030 x 882 x 1993
Internal dimensions [W x D x H]	mm	870 x 607 x 1400
Volume	litres	725
Net weight	kg	282
Capacity ²⁾	2" boxes	528

Performance		
Cooling performance ³⁾	°C	-86 to -40
Temperature setting range	°C	-90 to -40
Temperature control range ³⁾	°C	-86 to -40

Control		
Controller	Microcomputer control system	
Display	LCD Digital display	
Temperature sensor	Platinum resistance [Pt 1,000 Ω]	

Refrigeration		
Refrigerant	HC	
Insulation	Rigid polyurethane foamed-in place + Vacuum insulation panel	

Construction		
Exterior material	Painted Steel	
Interior material	Painted Steel	
Outer door	qty	1
Outer door lock	Y	
Inner doors	qty	2
Shelves	qty	3
Max. load - per shelf	kg	50
Vacuum release port	1 [manual]	
Access port	qty	3
Access port position	back x1, bottom x2	
Access port diameter	∅ mm	17
Casters	qty	4 [2 leveling feet]

Alarms (V = Visual Alarm, B = Buzzer Alarm, M = Message, R = Remote Alarm)		
Power failure	V-B-M-R	
High temperature	V-B-M-R	
Low temperature	V-B-M-R	
Filter	V-M	
Door open	V-B-M	

Electrical and Noise Level		
Power supply	V	115
Frequency	Hz	60
Noise level ⁴⁾	dB [A]	52

Options		
Back-up cooling kit	MDF-UB7-PW ⁵⁾	
Inventory rack	IR-220U-PW, IR-224U-PW	
Temperature recorders	- Circular type	MTR-G85A-PA ⁶⁾ - Chart paper: RP-G85-PW - Ink pen: PG-R-PW
	- Continuous strip type	MTR-85H-PW ⁶⁾ - Chart paper: RP-85-PW - Ink pen: DF-38FP-PW - Recorder housing: MDF-S3085-PW
Recorder sensor cover	MTR-DU700SF-PW	

Optional Communication Systems		
Digital interface [RS232C/RS485]	MTR-480-PW ⁷⁾	
Ethernet interface [LAN]	MTR-L03-PW ⁷⁾	

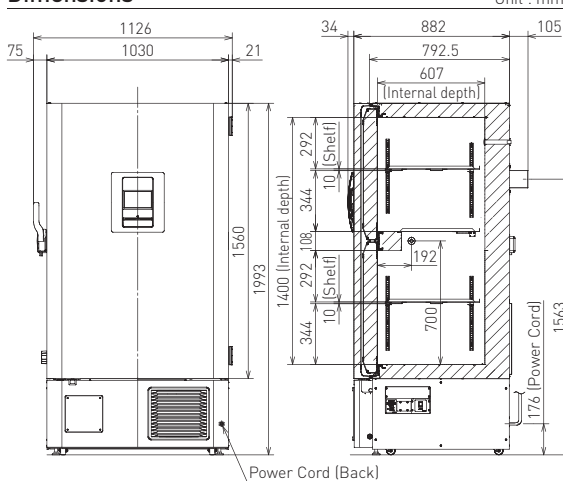

Quality Management System		
Certification	ISO9001	

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections. ²⁾ Usable storage capacity of 2" boxes when the original 3 trays installed. ³⁾ Air temperature measured at freezer centre, ambient temperature 30°C, no load. ⁴⁾ Nominal value - Background noise 20 dB[A]. ⁵⁾ Settable range of the injection start temperature is -70°C to -50°C. ⁶⁾ Requires sensor cover MTR-DU700SF-PW. ⁷⁾ Standard signal and interface cables with a maximum length of 30 meters are recommended.

• 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.

Dimensions

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.





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

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