



Twin *Guard*

-86°C Ultra-Low Temperature Freezer







360 L

Ultra-low temperature storage solution for valuable samples. Twin *Guard* equipped with new Dual Cooling System.

New Twin*Guard* adopts optimised Dual Cooling System and new cabinet design with enhanced insulation performance and storage capacity.

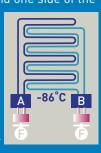
Superior cooling performance focused on reliability and safety suitable even for mass sample storage such as biobank use.

Ultimate Sample Protection

New optimised Dual Cooling System "Twin*Guard*" comprised of independent dual cooling circuits realises -86°C and one side of the

cooling circuits maintains chamber temperature at -70°C.

The freezer can minimise risk of compromising valuable samples.



Efficient Sample Storage

New cabinet design combines an insulated outer door with superior storage efficiency and an inner door designed for uniform temperature distribution. This improves

storage efficiency approximately 10 % [240 pcs of 2-inch Cryo boxes can be stored] while maintaining the same footprint as conventional models.



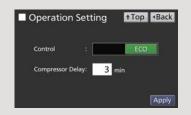
Intelligent Interface

The newly developed ergonomic "EZlatch" door handle makes access to stored samples even easier. Intuitive and intelligible large colour LCD touchpanel is provided.



ECO operation and energy saving

Improved insulating performance cuts power consumption approximately 10 %* compared to conventional models when the ECO mode is selected, thanks to the effective combination of VIP Plus insulation and the next-generation cabinet.



* Compared to conventional models. Power consumption per 2 inch box. Power source: 230 V 50 Hz, AT 23°C

Flexible shelf layout



Multiple shelf configurations allow a variety of storage options. Organise your samples by transferring your current inventory racks.

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.

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New Cabinet Design

The "Chamfer-design" body front features a chamfered edge for reduced installation space in a multiple unit installation. The design is especially suitable for a biobank or similar application.



830

Filterless Design

The filterless construction of the freezers reduces routine maintenance time by eliminating the need for regular cleaning of filters.

User friendly for daily operation with newly developed vacuum release port and fivefold gasket

Newly developed automatic vacuum release port and fivefold gasket are adopted. Automatic release of negative pressure and reduced frost realise user friendliness even for frequent door opening.

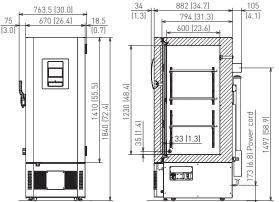


Performance Data

AT30°C Pull-down & Pull-up Temperature - Pull-down (220 V/50 Hz) Pull-up Temperature (°C) -20 -40 -60 Time (hour)

Dimensions

Unit : mm (inch)



33 (1.3)	173 (6.8) Power cord 1497 (58.9)
ment, Experimental	1



Freezers, Refrigerators, Incubators, and Drying and Sterilising Equipment for Medical use

Inventory rack

- Circular type

Ethernet interface (LAN) 7]

- Continuous strip type

Optional Communication Systems

Digital interface (RS232C/RS485) 7

Il External dimensions of main cabinet only, excluding handle and other external projections.
Il Usable storage capacity of 2° boxes when the original 3 trays installed.
Air temperature measured at freezer centre, ambient temperature 30°C, no load.
Max. load allowed for chamber interior — total shelves (3) and chamber bottom, excluding load on casters mounted on product.

The management of the design, development, production and distribution of the above.





PHC Corporation, Biomedical Division is certified for:

Environmental management system: IS014001

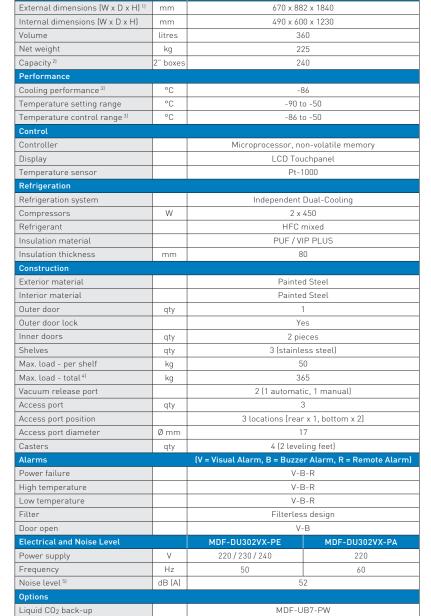
Environment Equipm Equipment, Culturing Equipment and **Drying & Sterilising Equipment for** SUD General Laboratory use The management of the design,

Preservation Equip

development, production and servicing of the above

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

DISTRIBUTED BY:



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MTR-G85C-PE ⁶	- Chart paper: RP-G85-PW - Ink pen: PG-R-PW
MTR-85H-PW	- Chart paper: RP-85-PW - Ink pen: DF-38FP-PW - Recorder housing: MDF-S3085-PW

MTR-480-PW

MTR-L03-PW

IR-220U-PW

MDF-DU302VX-PE/MDF-DU302VX-PA

PILIT-LU3-PW

51 Nominal value - Background noise 20 dB[A].
41 Requires sensor cover MTR-DU700SF-PW.
71 Only for MTR-5000 (data acquisition system) users.
4 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.





PHC Corporation