

# PHCbi

MDF-DC700VX-PE

# **Twin** *Guard*

-86°C Chest Freezers

575 | 715 L







PHCbi's TwinGuard -86°C chest freezers deliver the unsurpassed level of safety and sample security that is critical for valuable biological samples alongside exceptional ease of use and data monitoring.

## Ultimate Sample Protection

The Dual Cooling System offers the highest level of protection through the use of two independent refrigeration systems. If one system unexpectedly fails the other can maintain the freezer in the -70°C range.

# Improved Temperature Performance

TwinGuard chest freezers maintain better temperature stability and uniformity during routine door openings than equivalent upright models as less cold air leaves the freezer while the door is open.

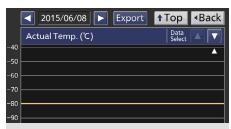
# Enhanced Use & Intelligent Security

A colour LCD touch panel allows full user control, even with gloved hands, while the USB port makes transferring logged data to a PC convenient. The filterless design of the freezers reduces routine maintenance.



### Valuable Sample Storage

Securely store valuable and irreplaceable samples with the upmost confidence that they won't be lost in the case of compressor failure.



### **Temperature Sensitivity**

Enhanced uniformity and greatly reduced risk of sample degradation as a result of temperature fluctuation during freezer failure.



### **Restricted Access Laboratories**

Significantly extended critical time to react to any sudden mechanical failure. Ideal for high security applications.

### TwinGuard -86°C Chest Freezers



### **Dual Cooling System**

Two independent refrigeration systems, with CoolSafe compressors, provide a reliable and exceptionally stable -86°C ultra-low temperature environment.

In the case of an unexpected failure of one cooling circuit, the other circuit will maintain the freezer in the -70°C range, protecting samples until service can be arranged.

### Microprocessor Control with Touch Screen Display

An LCD touch screen displays freezer temperature and important status information while a USB port allows logged data to be easily transferred to a PC.

When set to ECO mode, the microprocessor controller will establish an overlapping cycle of the two refrigeration systems based on the load status of the freezer, significantly reducing energy consumption.

### **Efficient Sample Storage**

The use of highly efficient VIP Plus insulation combined with a newly designed refrigeration system layout ensures the most efficient use of space for up to 30%\* more 2" box storage capacity.

\*MDF-DC500VX compared with previous equivalent PHCbi models.

### Filterless Design

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

### EEA, Switzerland and Turkey only



### For medical use

The MDF-DC500&700VX freezers are certified as a Class
IIa Medical Device (93/42/EEC and 2007/47/EC). Applicable countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Malta, the Netherlands, Spain, Switzerland and the United Kingdom only



Applicable countries: EEA countries, Switzerland and Turkey

# **PHC Europe**

A Member of PHC Group

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15	959.5

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		MTR-G85C-PE					
	RP-G85-PW		B5-PW				
	PG-R-PW		R-PW				
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Construction Exterior material Interior material Outer lid Outer lid lock Inner lid Access Port position diameter

Alarms Power failure High temperature Low temperature Filter Lid open Electrical and Noise Level Frequency

Noise level<sup>3</sup> **Options** Liquid CO, back-up Temperature recorders - Circular type - Chart paper - Ink pen - Continuous strip type - Chart paper - Ink pen

Appearance and specifications are subject to cha

- Recorder housing

MDF-DC700VX-PE

<sup>3</sup> Nominal value - Background noise 20dB[A]

1) Exterior dimensions of main cabinet only excluding \*External uninestions of main cabinet only, exclude external projections - See dimensions drawings or Air temperature measured at freezer centre, ambient temperature +30°C, no load