MDF-DU302VX-PE

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TwinGuard

-86°C Upright Freezer

360 L

DUAL cooling system | VIP PLUS vacuum insulation | EZlatch door handle | MDD medical device directive

The most secure ultra-low temperature freezers for the storage of high value samples

TwinGuard Ultra Low Temperature Freezers with Dual Cooling Technology offer the highest level of security for high-value samples. Alongside exceptional ease-of-use and data monitoring, the Dual Cooling System provides the highest level of protection.

Ultimate Sample Protection

The Dual Cooling System offers high levels 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.

Efficient Sample Storage

The combination of VIP PLUS vacuum insulation and an enhanced cabinet design with insulated outer door, ensures optimum temperature uniformity, while the reduced wall thickness maximizes storage capacity up to 240 2" boxes.

Intelligent Interface

The EZlatch makes access to stored samples even easier.
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.

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.

Flexible Shelf Layout

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

Restricted Access Laboratories

Significantly extended time to react to any sudden mechanical failures and data logging are ideal for high security applications such as pathogenic research.

PHC Europe B.V.
Formerly Known as Panasonic Biomedical Sales Europe

TwinGuard -86°C Upright Freezer

Dual Cooling System

The Dual Cooling System offers ultimate sample protection. The two independent refrigeration systems provide a reliable and exceptionally stable -86°C ultra low temperature environment. If one system unexpectedly fails, the other can maintain the freezer in the -70°C range until service can be arranged.

Intelligent Eco Mode Operation

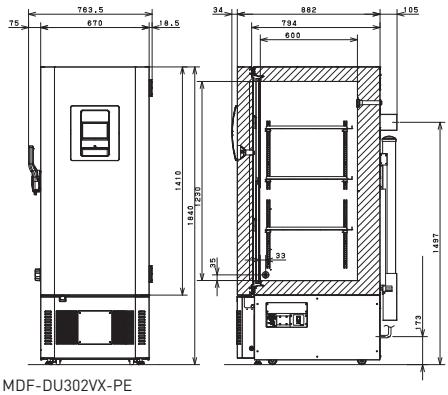
When set to ECO mode, the microprocessor controller will establish an overlapping cycle of the two refrigeration systems based on the load status of the freezer, significantly reducing energy consumption.

Filterless Design

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

Innovative Cabinet Design

The enhanced cabinet design with chamfered edges reduces footprint for use in multi freezer laboratories.



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CE 0123 The MDF-DU302VX-PE is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of storing human cells, organs, plasma and DNA.

PHC Europe B.V.

Model Number		MDF-DU302VX-PE
External Dimensions (W x D x H)[1]	mm	670 x 882 x 1840
Internal Dimensions (W x D x H)	mm	490 x 600 x 1230
Volume	litres	360
Net Weight	kg	225
Capacity	2" boxes	240
Performance		
Cooling performance [2]	°C	-86
Temperature setting range	°C	-50 to -90
Temperature control range [2]	°C	-50 to -86
Control		
Controller		Microprocessor, non-volatile memory
Display		LCD Touch Screen
Temperature sensor		Pt-1000
Refrigeration		
Refrigeration system		Independent Dual-Cooling
Compressors	W	2 x 450
Refrigerant		HFC mixed
Insulation material		PUF / VIP Plus
Insulation thickness	mm	80
Construction		
Exterior Material		Painted Steel
Interior Material		Painted steel
Outer Doors	qty	1
Outer Door Lock		Y
Inner Doors		2
Shelves	qty	3
Max. load - per shelf	kg	50
Max. load - total [3]	kg	365
Vacuum release port		2 (1 automatic, 1 manual)
Access Port	qty	3
Access Port Position		back x 1, bottom x 2
Access Port Diameter	Ø mm	17
Casters	qty	4 (2 leveling feet)
Alarms		**(R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)**
Power Failure		V-B-R
High Temperature		V-B-R
Low Temperature		V-B-R
Filter		Filterless design
Door open		V-B
Electrical and Noise Level		
Power Supply	V	230
Frequency	Hz	50
Noise Level[4]	dB (A)	52
Options		
Liquid CO_2 back-up		MDF-UB7-PW
Temperature recorders		
- Circular type		MTR-G85C-PE [5]
- Chart paper		RP-G85-PW
- Ink pen		PG-R-PW
- Continuous strip type		MTR-85H-PW [5]
- Chart paper		RP-85-PW
- Ink pen		PG-R-PW
- Recorder housing		MDF-S3085-PW

[1] Exterior dimensions of main cabinet only, excluding handle and other external projections.
[2] Air temperature measured at freezer centre, ambient temperature +30°C, no load.
[3] Max. load is the total of the load distributed over all shelves (3) and chamber bottom surface. The weight is the maximum load for chamber inside and does not account for maximum load on casters equipped with product.
[4] Nominal value - Background noise 20dB(A)
[5] Requires sensor cover MTR-DU700SF-PW

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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.