

Plasma Freezer

MDF-U5412



Temperature

(Ambient temperature 30°C)

-40°c

Effective capacity

482 liters/17.0 cu.ft.

280pcs

300ml frozen plasma bag

Biomedical Freezer for reliable preservation of blood plasma and other biologics

- High freezing power
- Stable & Uniform temperature design
- Ideal freezing environment for biologicals
- Alarm and safety devices

Features

Panasonic MDF-U5412 provides an ideal freezing environment for preservation of blood plasma, vaccines, test samples, and other biological specimens.

Stable & Uniform Temperature Design

- Double outer doors
- Full-height storage containers on each shelf
- Cooling tubes under every shelf
- Direct cooling system for stable temperature control
- Fine-controllable refrigeration circuit with valve

Large Storage Capacity

300ml FFP* bag x 280 pieces.
*Fresh Frozen Plasma

User Friendly Design

- Built-in door latch for each door
- Easy calibration through the control panel

Visual and Audible Alarm System

- High & Low temperature alarm
- Power failure alarm with non-volatile memory back up
- Self-diagnostic system

Safety Function

- Remote alarm contact
- Re-activating buzzer, lamp and remote alarm contact (30min.after buzzer stops)
- Standard door lock and independent padlock hasp door latches for extra security
- Remote monitoring by Data acquisition system (Option)
- 1/7/30 days circular recorder (Option)

Environment friendly

• HCFC-Free refrigerant and insulation

Specifications

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Model No.	MDF-U5412		
Exterior Dimensions (W x D x H)	804 x 772 x 1802 (mm) / 31.7 x 30.4 x 71.0 (inch)		
Interior Dimensions (W x D x H)	658 x 607 x 1272 (mm) / 25.9 x 23.9 x 50.1 (inch)		
Net weight	131kg (288.8 lbs.)		
Effective capacity	482 liters (17.0 cu.ft.)		
Exterior cabinet	Galvanised steel with baked-on finish		
Cabinet insulation	Rigid polyurethane foamed-in place		
Outer door	2, Insulated and magnetic sealed		
Door lock	1 door lock, 2 lockable door latches for each door		
Storage container	6 pcs. (Upper room), 4 pcs. (Lower room)		
Casters	4		
Adjustable leveling feet	2		
Compressor	400W Hermetically sealed		
Refrigerant	HFC refrigerant		
Temp. control range	−20°C to −40°C (Ambient temperature 5°C to 30°C)		
Settable range	−18°C to −45°C		
Cooling method	Direct cooling		
Temperature control	Microprocessor control		
Temperature alarm	High/Low (±5 to ±15°C, adjustable)		
Power failure alarm	Buzzer and lamp (Automatic rechargeable battery), Memory back up		
Remote alarm contact	Allowable contact capacity: DC30V, 2A, Temperature alarm or power failure alarm		
Access hole	ø30, Rear side		
Accessories	Door lock key, Defrost spatula, Storage containers		
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Options

Panasonic data acquisition software (MTR-5000-PW)

Ethernet (LAN) Interface (MTR-L03-PW), RS232C/RS485 Interface (MTR-480-PW)

Strip chart recorder (MTR-4015LH-PE)

Recorder mounting kit (MPR-S30-PW), Recording paper (RP-40-PW)

Circular chart recorder (MTR-G85C-PE)

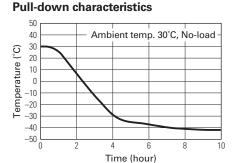
Recorder mounting kit (MPR-S7-PW), Recording paper (RP-G85-PW), Recording pen (PG-R-PW)

Voltage specification by destination

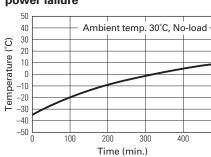
Representative destination	Europe	230V, 50Hz (CE)	MDF-U5412-PE
	Korea	220V, 60Hz	MDF-U5412-PK
Repr des	Thailand	220V, 50Hz	MDF-U5412-PB

Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content.

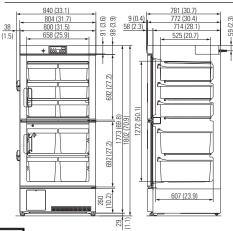
Performance Data



Pull-up characteristics during power failure









Panasonic Healthcare Co., Ltd., Gunma Factory is certified for:

Quality management system: ISO9001 Medical devices quality management system: ISO13485 MS JAB CM021



Panasonic Healthcare Co., Ltd., Gunma Factory is certified for:

Environmental management system: ISO14001

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