Specifications						
220-240V, 50Hz (CE)	MDF-137-PE	MDF-237-PE	MDF-437-PE	MDF-U537D-PE		
Model No. 220V, 60Hz	_	_	_	MDF-U537D-PK		
110V, 60Hz	_	_	_	MDF-U537D-PT		
Exterior dimensions (W x D x H)*1	640 x 687 x 881 (mm) 25.2 x 27.0 x 34.7 (inch)	905 x 687 x 881 (mm) 35.6 x 27.0 x 34.7 (inch)	1265 x 807 x 902 (mm) 49.8 x 31.8 x 35.5 (inch)	804 x 772 x 1802 (mm) 31.7 x 30.4 x 70.9 (inch)		
Interior dimensions (W x D x H)	525 x 440 x 715 (mm) 20.7 x 17.3 x 28.1 (inch)	790 x 440 x 715 (mm) 31.1 x 17.3 x 28.1 (inch)	1140 x 550 x 733 (mm) 44.9 x 21.7 x 28.9 (inch)	658 x 607 x 589/Top (mm) 658 x 607 x 603/Bottom (mm) 25.9 x 23.9 x 23.2 (inch) 25.9 x 23.9 x 23.7 (inch)		
Capacity	138 liters (4.9 cu. ft.)	221 liters (7.8 cu. ft.)	425 liters (15.0 cu. ft.)	452 liters (16.0 cu. ft.)		
Cooling performance	-30°C (AT: 35°C, no load)					
Control range	-20°C to -30°C					
Baskets	2	3	4	Top: 6 large, Bottom: 8 small		
Access ports	17mm diameter, right-hand side and bottom left		m left	Two 30mm diameter, rear		
Compressor	Hermetic, 150 W	Hermetic, 200 W	Hermetic, 250 W	Hermetic, 350 W		
Refrigerant	R-134a		R-404A	R-407D		
Alarm system	 High/low temperature alarm (SV ±5°C to ±15°C adjustable) Power failure Remote alarm contact 					
Calibration	Zero adjustment via control panel					
Options	Temperature recorder (MTR-685C-PE, MTR-4015LH-PE), Data acquisition system (MTR-5000-PW)					
Rackate	MDE-19R9-PW/19R9-PW		MDE-4382-PW///383-PW/	_		

Buonter				
Model No.	220-240V, 50Hz (CE)	MDF-U5312-PE (230/240V, 50Hz)	MDF-U334-PE	MDF-U443-PE (230/240V, 50Hz)
	220V, 60Hz	MDF-U5312-PK	MDF-U334-PK	MDF-U443-PK
	220V, 50Hz	MDF-U5312-PB	_	MDF-U443-PB
	110V, 60Hz	MDF-U5312-PT	MDF-U334-PT	_
Exterior dimensions (W x D x H)*1		804 x 772 x 1802 (mm) 31.7 x 30.4 x 70.9 (inch)	614 x 709 x 1620 (mm) 24.2 x 27.9 x 63.8 (inch)	800 x 832 x 1810 (mm) 31.5 x 32.8 x 71.3 (inch)
Interior dimensions		658 x 607 x 1272 (mm)	490 x 486 x 1290 (mm)	640 x 615 x 1090 (mm)
(W x D x H)		25.9 x 23.9 x 50.1 (inch)	19.3 x 19.1 x 50.8 (inch)	25.2 x 24.2 x 42.9 (inch)
Capacity	Capacity 482 liters (17.0 cu. ft.)		274 liters (9.7 cu. ft.)	426 liters (15.0 cu. ft.)
Cooling performance		-30°C (AT: 3	5°C, no load)	-40°C (AT: 35°C, no load)
Control range		-20°C t	-15°C to -40°C	
Baskets		Top: 6 small, Bottom: 4 large	4 large, 1 small	_
Access ports		30mm diameter, rear	30mm diameter, left-hand side	40mm diameter, left-hand side
Compres:	Compressor Hermetic, 400 W		Hermetic, 200 W	Hermetic, 400 W/750 W
Refrigera	int	R-404A	R-134a	High stage: R-134a, Low stage: R-404A
Alarm sy:	High/low temperature alarm (SV±5°C to±15°C adjustable) • Power failure • Remote alarm contact • Part replacement notification		High/low temperature alarm (SV ±5°C to ±15°C adjustable) • Power failure • Part replacement notification • Remote alarm contact Self diagnostics • Remote alarm contact	High/low temperature alarm (SV ±5°C to ±20°C adjustable) • Power failure • Filter clogging Bemote alarm contact • Battery/fanmotor replacement notification
Calibratio	on	Zero adjustment	_	
Options		Temperature recorder (MTR-G85C-PE, MTR-4015	Temperature recorder (MTR-85H-PW, MTR- 4015LH-PE), Data acquisition system (MTR-5000-PW)	















Data acquisition system MTR-5000-PW Interface board MTR-L03-PW or MTR-480-PW

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Biomedical Freezers



Panasonic...the new name for SANYO

Biomedical Freezers

Panasonic's MDF Series Biomedical Freezers offer the outstanding reliability and performance required in a wide variety of storage and research applications. In the medical field, they provide effective storage of life-saving fresh and frozon blood supples and vaccines, as well as samples for diagnosis. In the biotechnology field, they provide effective storage of enzymes for genetic research, as vell as culture media, reagents and samples for testing, in the industrial field, they are ideal for aging and temperature tests on electronic components, precision devices, and compound resins. As a storage environment, with excellent safety features, easy operability, and a host of other features, these freezers offer insuspressed reliability and functionality, I' you are looking for precision temperature controlled storage equipment, look to Panasonic.

Chest type



Versatile mid-size model

• Digital temperature display as standard feature

• Easy-to-use 200-liter mid-size model



Large size 400-liter class

Digital temperature display as standard feature
Large-capacity, economical size



MDF-437 425 liters

Performance Data

Feature

MDF-137 138 liters (4.9 cu.ft.)

Financed Operation
 Front-mounted display/control panel (with microprocessor) located at convenient waist height

Memory backup
Temperature display
Front access calibration for temperature recorder
The control panel, alarm system and non-volatile memory are the same for all models in the series.

Photo is MDF-JD537D

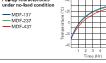


MDF-237



221 liters (7.8 cu.ft.)

Pull-up characteristics under no-load condition



Recording Features (Optional)
Recorder can be fitted in convenient position
that will not interfere with installation. Choice
of optional recorders
7-day circular recorder (MTR-GBSC-PE)
and 32-slay strip recorder (MTR-GBSC-PE)
Fell are available, descopt MDT-GU443)
1-emperature recorder with auto recharging
Front access calibration for temperature
recorder

Single electrical box makes servicing simple: The chamber temperature is displayed for five seconds if BUZZER key is depressed during power failure alarm. After a power outage, operation resumes at procusing settings flow-valual memory for temperature and alarm temperature settings! Control panel can be reset to zero for validation. *Two access ports (right-hand side and bottom left (chest type) Four casters and two adjustable feet

- Environment-Friendly

 HFC refrigerant inon-CFC, non-HCFC refrigerant is environment-friendly but offers superb performance.

 Pre-coated metal body causes less environmental damage than conventional paint coating.

Large-capacity, economical, space-saving model

aving model Top/bottom twin door design prevents cold air escaping Convenient storage drawers

Upright type





MDF-U537D **452** liters (16.0 cu.ft.)



Easy-to-use, slim & compact design • Microprocessor digital temperature display • Convenient storage drawers

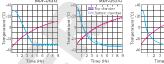


MDF-U334 274 liters (9.7 cu.ft.) MDF-U443 426 liters (15.0 cu.ft.)

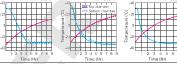
Powerful fan ensures temperature uniformity throughout the freezer c

Forced air circulation & auto defrost





MDF-U5312 482 liters





Secure lock safeguards the contents of the freezer and keeps hazarous items out of harm's way.

Newly designed lid lock lebest these



accommodate a pad lock for added protection of valuable samples. (upright type)



Part replacement notification (MDF-U5312)

Temperature Monitoring Features (optional)
Data Acquisition System enables remote monitoring of Panasonic biomedical freezers.







