

Panasonic

Biomedical & Medical Equipment

Partnering Life Sciences Development



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* Appearance and specifications are subject to change without notice

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Panasonic... the new name for SANYO



Panasonic, by developing unique technologies and offering excellent products and sincere services, seeks to become a corporation that is loved and trusted by people around the world.

The Biomedical Division of Panasonic helps in the development of novel creativities in the Biotechnology, Medical and Environmental fields, and contributes to social progress for all people in the world.

Drawing on Panasonic's leading refrigeration technology, the first ever -152° ultra-low temperature freezer has been successfully introduced. Along with the rapid development of biotechnology, our CO₂ incubators and bio safety cabinets have been accepted and highly acclaimed by researchers around the world. Panasonic also leads the world with its complete range of biomedical equipment. These are just a few examples of the many advanced products on which our customers depend.

Keeping in line with our division's vision of "Contributing to the development of Medicine and the Life sciences to bring health and happiness to all people", we at Panasonic will continue to strengthen our business operations and increase customer satisfaction on a global level.



Panasonic Healthcare Co., Ltd.

Corporate Data

Company Name: Panasonic Healthcare Co., Ltd.
Tokyo Head Office: 2-38-5 Nishi-Shinbashi, Minato-ku, Tokyo 105-8433, Japan
Gunma Factory: 1-1-1, Sakata, Oizumi-Machi, Ora-Gun, Gunma 370-0596, Japan

Preservation sub-zero

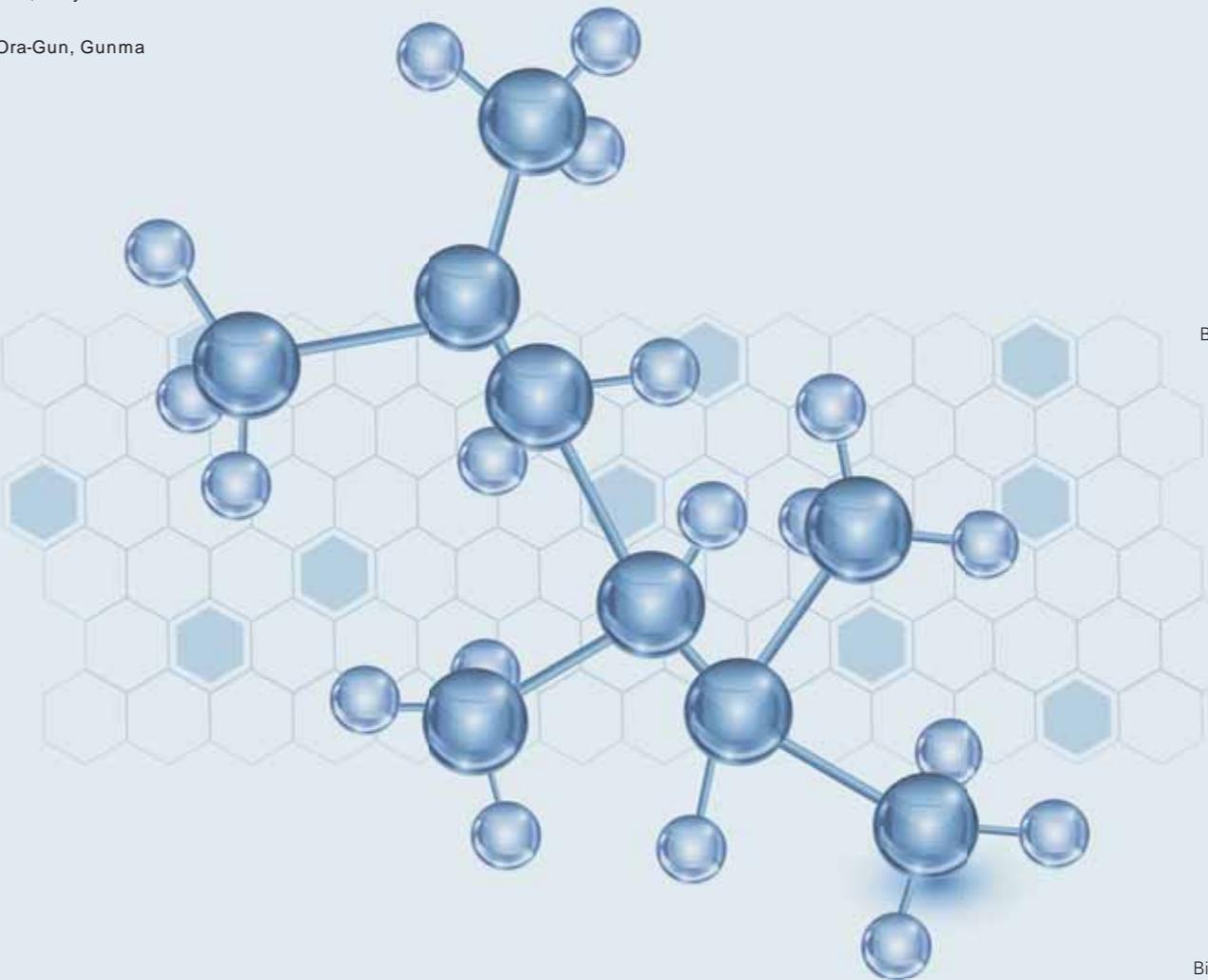
Preservation above-zero

Incubation

Sterilizing & Drying

Experiment & Dispensing Systems

CONTENTS



History

- 1966 Pharmaceutical fridge
- 1969 Incubator
- 1973 Medical autoclave
World's first ATC
- 1974 -40° freezer
- 1975 Automatic tablet dispensing machine
- 1977 -86° chest freezer
- 1979 Prefabricated unit
- 1980 -86° upright freezer
- 1982 PI-controlled oven
- 1984 CO₂ incubator
Dry heat sterilizer
- 1985 Lab autoclave
- 1986 -135° freezer
Lab equipment washer
- 1987 Bio clean bench
- 1991 World's first -152° freezer
- 1993 Bio safety cabinet
- 1998 -86° V.I.P. freezer
- 1999 inCu saFe CO₂ incubators
- 2001 SafeCell UV CO₂ incubator
- 2002 Air jacketed CO₂ incubator
- 2004 Compact CO₂ incubator
- 2005 HCFC-free for all preservation products
- 2007 Autoclaves with voice guidance
InVitro Live Cell imaging incubator
- 2008 Dual cooling -86° V.I.P. freezer
- 2009 H₂O₂ decontamination CO₂ incubator
- 2011 Next-generation energy saving ULT Freezer

Preservation sub-zero

- Ultra-Low Temperature Freezers
- V.I.P. Series Ultra-Low Freezers
- Biomedical Freezers (Direct Cooling Type/Fan Type)
- Specifications

Preservation above-zero

- Blood Bank Refrigerators
- Pharmaceutical Refrigerators
- Specifications
- Optional Accessories

Incubation

- CO₂ Incubators
- O₂/CO₂ Incubators
- Heated Incubators
- Cooled Incubators
- Shaker
- Versatile Environmental Test Chambers
- Specifications/Optional Accessories

Sterilizing & Drying

- Laboratory Autoclaves/Specifications
- Electric Ovens
- Dry Heat Sterilizers
- Specifications/Optional Accessories

Experiment & Dispensing Systems

- Biological Safety Cabinet
- Bio-Clean Benches (Forced air circulation exhaust system)
- Clean Benches (Standard type)
- Undercounter Flake Ice Maker
- Specifications
- ATC (Automatic Tablet Counting Machine)
- Compact ATC
- Tablet Dispenser
- Multi-Drive Vial Filler
- Compact Vial Filler
- Specifications

Life science—a rapidly transforming field.

We are always up to speed with fast moving trends in the field of life science. This is essential if we aim to fulfill the needs of customers around the world with our advanced technology. Preservation and culturing are the company's core technologies which have been built up over many years. We are constantly reinforcing these as well as developing new key technologies. In this way we can offer customers reliable solutions by supplying them with a full range of integrated systems that combine hardware and software. In the near future, it is quite clear that biotechnology will merge with information technology and mechatronics to create an entirely new field. The Panasonic will integrate total efforts to satisfy increasingly diversified requirements in the field of leading-edge medicine by developing and offering a wide array of advanced products. These range from products that assist research in the cutting-edge field of cell therapy such as regenerative medicine and gene therapy, and automated equipment for medication and pharmacy-related fields, which are essential elements for the aging society. While learning from customers, Panasonic will continue to evolve itself in the years to come.

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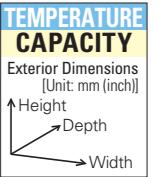
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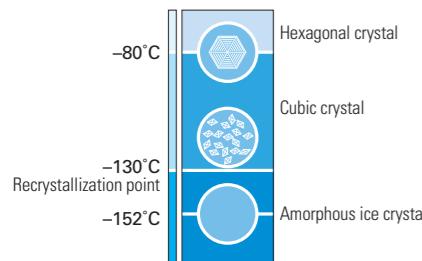
Ideal for preservation of reagents, research materials and medicines, Panasonic preservation systems employ microprocessor control to maintain high-precision temperature environment, not being affected by ambient temperature, minimizing uneven temperature distribution within the chamber, and a temperature rise during defrosting.

Preservation sub-zero

Ultra-Low Temperature Chest Freezers

Why Freeze to -152°C ?

Recrystallization Mechanism



World's lowest -152°C freezer ensures stable cell and tissue preservation.

An important factor to consider when preserving cells or tissue at ultra-low temperatures is to prevent amorphous ice crystals from recrystallizing within and outside the cells. Samples that are maintained in an ultra-low temperature freezer at -152°C which is far lower than the recrystallization point (-130°C for pure water) can be preserved semi-permanently. Preservation at ultra-low temperatures maintains vitrification without crystallization occurring inside and outside cells. In contrast to conventional liquid nitrogen preservation containers, freezer preservation has numerous advantages: no sample contamination, no sudden liquid eruptions as well as low operational costs. Panasonic freezers make long-term storage below the recrystallization point easier and more stable than ever before.



MDF-1156ATN
MDF-1156
ATN: LN₂ back-up, Temp. recorder

- Cryogenic preservation
- Alarm and safety devices
- Microprocessor temperature control



MDF-193AT

- Low-profile design for easier loading and unloading
- Ultra-freezing in minimal space
- Alarm and Safety devices

MDF-193AT **MDF-193**
MDF-394 **MDF-394**
MDF-594AT **MDF-594**
MDF-794AT **MDF-794**

AT: LCO₂ back-up, Temp. recorder



MDF-594AT

- Microprocessor temperature control
- Improved design
- Alarm and safety devices
- Digital display

V.I.P. Series Ultra-Low Temperature Freezers



MDF-C2156VAN
-150°C
231 L (8.2 cu.ft.)
1010 (39.8")
765 (30.1")
1730 (68.1")

- Cryogenic preservation
- Space and energy saving
- Graphic LCD control panel
- Equipped with LN₂ backup system



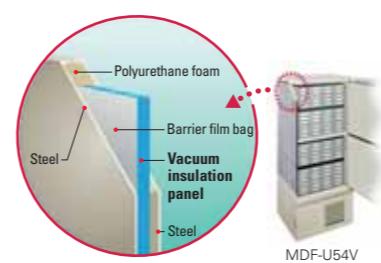
MDF-C8V1
-80°C
84 L (3.0 cu.ft.)
945 (37.2")
685 (27.0")
550 (21.6")

- Space and energy saving
- Perfect size for personal use
- Maintenance-free filterless design
- Low noise design



Patented V.I.P. (Vacuum Insulation Panel)

VIP panel is the innovative insulation component developed and manufactured by Panasonic. VIP panels contain densely packed, open cell foam insulation under vacuum. This configuration dramatically enhances the insulation capability of the freezer while reducing the wall thickness. This in turn leads to greater interior volume and structural stability.



MDF-U54V
-86°C
519 L (18.3 cu.ft.)
1990 (79.3")
870 (34.3")
770 (30.3")

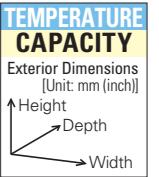


- Dual Cooling System
- Intelligent ECO mode operation
- Maximised capacity with V.I.P. technology



MDF-U700VX
-86°C
728 L (25.7 cu.ft.)
2010 (79.1")
870 (34.3")
1010 (39.8")





Preservation sub-zero

V.I.P. Series Ultra-Low Temperature Freezers

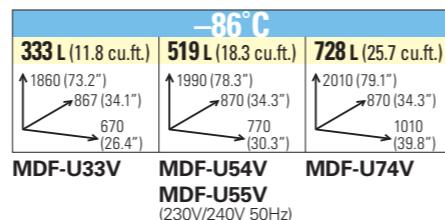
- Maximised capacity with V.I.P. technology
- Safe operation with Status Alert condition monitoring
- Enhanced security
- Energy saving



MDF-U54V
MDF-U55V (230V/240V 50Hz)



MDF-U74V



Ultra-Low Temperature Upright Freezers

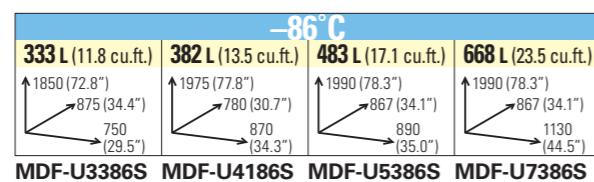
- Robust cooling performance
- Safe operation with advanced refrigeration system
- Improved accessibility



MDF-U5386S



MDF-U7386S



Biomedical Freezers

Chest type

- Power to cope with frequent door openings
- Balance hinge
- Temperature alarm
- Power failure alarm



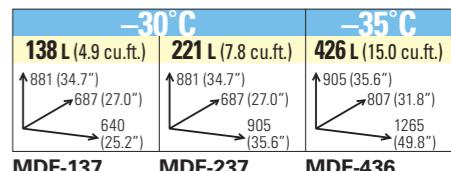
MDF-137
Limited countries and regions



MDF-237
Limited countries and regions

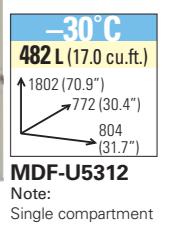
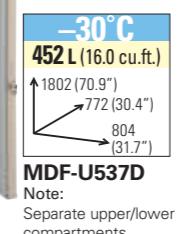
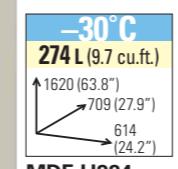


MDF-436

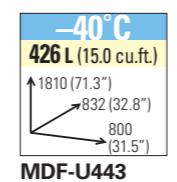


Upright type

- Maximum capacity in minimum installation space
- Door latch with padlock hole
- Temperature alarm
- Power failure alarm



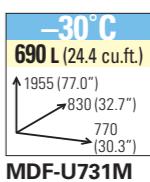
- High freezing power
- Forced air circulation and auto defrost
- High freezing power improves temperature uniformity



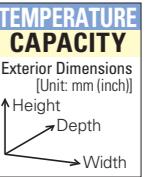
Limited countries and regions



- Direct cooling and manual defrost
- Large capacity
- Adjustable wire shelves
- Alarm and safety functions



Limited countries and regions



Specifications

Ultra-Low Temperature Chest Freezers						
220V, 50Hz	MDF-1156-PB/1156ATN-PB	—	MDF-394-PB	MDF-594-PB/594AT-PB	MDF-794-PB	
Model No.	220V, 60Hz	MDF-1156-PK/1156ATN-PK	MDF-193-PK	—	MDF-594-PK	MDF-794-PK/794AT-PK
230V, 50Hz (CE)	MDF-1156-PE/1156ATN-PE	MDF-193-PE/193AT-PE	MDF-394-PE	MDF-594-PE/594AT-PE	MDF-794-PE/794AT-PE	
Temperature Range	—130°C to -152°C	—50°C to -86°C	—	—20°C to -86°C	—	
Exterior Dimensions (W x D x H)*1	1400 x 800 x 945mm	750 x 700 x 945mm	1860 x 800 x 945mm	2010 x 770 x 1070mm	2570 x 770 x 1070mm	
Interior Dimensions (W x D x H)	500 x 450 x 572mm	480 x 430 x 420mm	1120 x 520 x 530mm	1280 x 500 x 762mm	1840 x 500 x 762mm	
Net Weight (Approx.)	265 kg (584 lbs.)/272 kg (600 lbs.)	103 kg (227 lbs.)/109 kg (240 lbs.)	219 kg (483 lbs.)	291 kg (642 lbs.)/301 kg (664 lbs.)	335 kg (739 lbs.)/345 kg (761 lbs.)	

V.I.P. Series Ultra-Low Temperature Freezers						
110V, 60Hz	—	MDF-C8V1-PT	—	—	—	—
Model No.	220V, 50Hz	MDF-C2156VAN-PB	MDF-C8V1-PB	MDF-U500VX-PB	MDF-U700VX-PB	MDF-U33V-PB
220V, 60Hz	MDF-C2156VAN-PK	MDF-C8V1-PK	MDF-U500VX-PK	MDF-U700VX-PK	MDF-U33V-PK	MDF-U54V-PK
230V, 50Hz (CE)	MDF-C2156VAN-PE	MDF-C8V1-PE	MDF-U500VX-PE	MDF-U700VX-PE	MDF-U33V-PE	MDF-U55V-PE
Temperature Range	—125°C to -150°C	—60°C to -80°C	—	—50°C to -86°C	—	
Exterior Dimensions (W x D x H)*1	1730 x 765 x 1010mm	550 x 685 x 945mm	770 x 870 x 1990mm	1010 x 870 x 2010mm	670 x 867 x 1860mm	770 x 870 x 1990mm
Interior Dimensions (W x D x H)	760 x 495 x 615mm	405 x 490 x 425mm	630 x 600 x 1380mm	870 x 600 x 1400mm	490 x 600 x 1140mm	630 x 600 x 1380mm
Net Weight (Approx.)	318 kg (701 lbs.)	67 kg (148 lbs.)	320 kg (705 lbs.)	375 kg (827 lbs.)	255 kg (562 lbs.)	296 kg (653 lbs.)/288 kg (635 lbs.)

Ultra-Low Temperature Upright Freezers					
220V, 50Hz	MDF-U74V-PB	MDF-U3386S-PB	MDF-U4186S-PB	MDF-U5386S-PB	MDF-U7386S-PB
Model No.	220V, 60Hz	MDF-U74V-PK	MDF-U3386S-PK	MDF-U4186S-PK	MDF-U5386S-PK
230V, 50Hz (CE)	MDF-U74V-PE	MDF-U3386S-PE	MDF-U4186S-PE	MDF-U5386S-PE	MDF-U7386S-PE
Temperature Range	—50°C to -86°C	—20°C to -86°C	—	—50°C to -86°C	—
Exterior Dimensions (W x D x H)*1	1010 x 870 x 2010mm	750 x 875 x 1850mm	870 x 780 x 1975mm	890 x 867 x 1990mm	1130 x 867 x 1990mm
Interior Dimensions (W x D x H)	870 x 600 x 1400mm	490 x 600 x 1140mm	620 x 515 x 1200mm	630 x 600 x 1280mm	870 x 600 x 1280mm
Net Weight (Approx.)	346 kg (763 lbs.)	255 kg (562 lbs.)	281 kg (619 lbs.)	305 kg (672 lbs.)	355 kg (783 lbs.)

Biomedical Freezers (Direct Cooling Type)				
110V, 60Hz	—	—	—	MDF-U334-PT
Model No.	220V, 60Hz	—	MDF-436-PK	MDF-U334-PK
230V, 50Hz (CE)	MDF-137-PE	MDF-237-PE	MDF-436-PE	MDF-U334-PE
Temperature Range	—20°C to -30°C	—20°C to -35°C	—20°C to -35°C	—20°C to -30°C
Exterior Dimensions (W x D x H)*1	640 x 687 x 881mm	905 x 687 x 881mm	1265 x 807 x 905mm	614 x 709 x 1620mm
Interior Dimensions (W x D x H)	525 x 440 x 715mm	790 x 440 x 715mm	1140 x 550 x 735mm	490 x 486 x 1290mm
Net Weight (Approx.)	52 kg (115 lbs.)	60 kg (132 lbs.)	71 kg (157 lbs.)	81 kg (179 lbs.)

Biomedical Freezers (Direct Cooling Type)				Biomedical Freezers (Fan Type)
110V, 60Hz	MDF-U537D-PT	MDF-U5312-PT	—	—
Model No.	220V, 50Hz	—	MDF-U5312-PB	MDF-U443-PB
220V, 60Hz	MDF-U537D-PK	MDF-U5312-PK	—	MDF-U443-PK
230V, 50Hz (CE)	MDF-U537D-PE	MDF-U5312-PE	MDF-U731M-SE	MDF-U443-PE
Temperature Range	—20°C to -30°C	—20°C to -35°C	—15°C to -40°C	—
Exterior Dimensions (W x D x H)*1	804 x 772 x 1802mm	804 x 772 x 1802mm	770 x 830 x 1955mm	800 x 832 x 1810mm
Interior Dimensions (W x D x H)	Top: 658 x 607 x 589mm Bottom: 658 x 607 x 603mm	658 x 607 x 1272mm	650 x 700 x 1520mm	640 x 615 x 1090mm
Net Weight (Approx.)	136 kg (300 lbs.)	134 kg (295 lbs.)	150 kg (331 lbs.)	213 kg (470 lbs.)

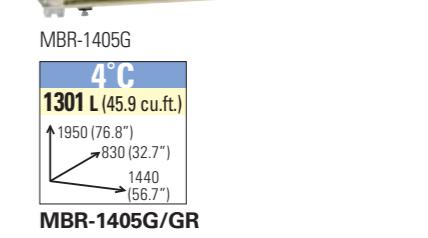
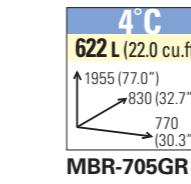
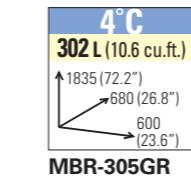
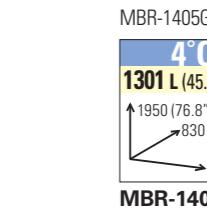
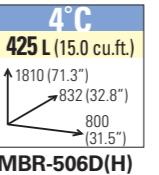
*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.



Preservation above-zero

Blood Bank Refrigerators

- Designed to meet AABB criteria
- Precise temperature control
- Alarm and safety functions



D: 30-day strip chart recorder
G: 7-day circular chart recorder
R: Drawer type

Preservation above-zero Pharmaceutical Refrigerators

- One unit dual temperature zone (Refrigerator with freezer)
- Superior cooling performance
- Quiet operation
- Various alarm and safety functions



MPR-215F MPR-414F

Refrigerator 2°C to 14°C	
Freezer -20°C to -30°C	
176 L (6.2 cu.ft.)	340 L (12.0 cu.ft.)
Refrigerator	Refrigerator
39 L (1.3 cu.ft.)	82 L (2.8 cu.ft.)
Freezer	Freezer
1794 (70.6") 557 (21.9") 540 (21.3")	1805 (71.1") 600 (23.6") 800 (31.5")

MPR-215F MPR-414F MPR-414S



MPR-721R MPR-1411R

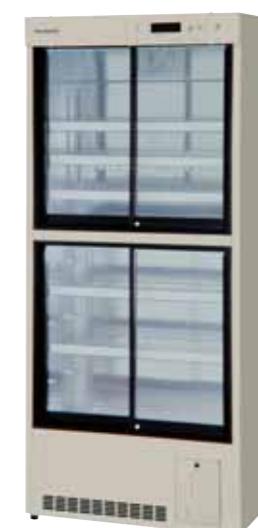
2°C to 23°C	
684 L (24.1 cu.ft.)	1364 L (48.2 cu.ft.)
MPR-721	MPR-1411
671 L (23.6 cu.ft.)	1359 L (48.0 cu.ft.)
MPR-721R	MPR-1411R
1955 (77.0") 830 (32.7") 770 (30.3")	1950 (76.8") 830 (32.7") 1440 (56.7")

MPR-721 MPR-1411
MPR-721R MPR-1411R
R: Drawer type



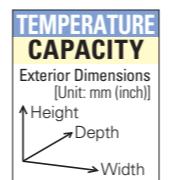
2°C to 14°C	
158 L (5.5 cu.ft.)	
1090 (42.9") 450 (17.7") 800 (31.5")	

MPR-311D(H)



2°C to 14°C	
489 L (17.3 cu.ft.)	1033 L (36.5 cu.ft.)
MPR-514	MPR-1014

D: Digital temp. display
Stainless steel interior cabinet
Card holder



Specifications

Description	Blood Bank Refrigerators				
	220V, 60Hz	MBR-107DH-PK	—	MBR-305GR-PK	MBR-705GR-PK
Model No.	230V, 50Hz (CE)	MBR-107DH-PE	MBR-506DH-PE	MBR-305GR-PE	MBR-705GR-PE
Temperature				4°C	
Exterior Dimensions (W x D x H)*1	400 x 495 x 1515mm	800 x 832 x 1810mm	600 x 680 x 1835mm	770 x 830 x 1955mm	1440 x 830 x 1950mm
Interior Dimensions (W x D x H)	320 x 350 x 710mm	640 x 550 x 1240mm	520 x 490 x 1150mm	650 x 697 x 1500mm	1320 x 710 x 1500mm
Net Weight (Approx.)	70 kg (154 lbs.)	185 kg (408 lbs.)	147 kg (324 lbs.)	210 kg (463 lbs.)	276 kg (608 lbs./315 kg (694 lbs.)

Description	Pharmaceutical Refrigerators			
	110V, 60Hz	MPR-215F-PT	MPR-414F-PT	MPR-414FS-PT
Model No.	220V, 50Hz	MPR-215F-PB	MPR-414F-PB	MPR-414FS-PB
220V, 60Hz	MPR-215F-PK	MPR-414F-PK	MPR-414FS-PK	
230V, 50Hz (CE)	MPR-215F-PE	MPR-414F-PE	MPR-414FS-PE	
Temperature Range		Refrigerator: 2°C to 14°C Freezer: -20°C to -30°C		
Exterior Dimensions (W x D x H)*1	540 x 557 x 1794mm	800 x 600 x 1805mm		
Interior Dimensions (W x D x H)	Refrigerator: 455 x 466 x 917mm	Refrigerator: 720 x 495 x 1425mm		
Net Weight (Approx.)	86 kg (190 lbs.)	126 kg (278 lbs.)	119 kg (262 lbs.)	

Description	Pharmaceutical Refrigerators			
	110V, 60Hz	—	—	MPR-161DH-PT
Model No.	220V, 50Hz	MPR-721-PB/721R-PK	MPR-1411-PB/1411R-PK	MPR-311DH-PK
220V, 60Hz	MPR-721-PE/721R-PE	MPR-1411-PE/1411R-PE	MPR-161DH-PE	MPR-311DH-PE
Temperature Range		2°C to 23°C	2°C to 23°C	2°C to 14°C
Exterior Dimensions (W x D x H)*1	770 x 830 x 1955mm	1440 x 830 x 1950mm	800 x 450 x 1090mm	800 x 450 x 1800mm
Interior Dimensions (W x D x H)	650 x 710 x 1500mm	1320 x 710 x 1500mm	720 x 300 x 725mm	720 x 350 x 1435mm
Net Weight (Approx.)	174 kg (384 lbs./)193 kg (426 lbs.)	248 kg (547 lbs./)287 kg (633 lbs.)	59 kg (130 lbs.)	90 kg (198 lbs.)

Description	Pharmaceutical Refrigerators			
	110V, 60Hz	MPR-514-PT/514R-PT	MPR-514-PB/514R-PB	MPR-1014-PT/1014R-PT
Model No.	220V, 50Hz	MPR-514-PK/514R-PK	MPR-1014-PK/1014R-PK	MPR-1014-PB/1014R-PB
220V, 60Hz	MPR-514-PE/514R-PE	MPR-1014-PE/1014R-PE	MPR-1014-PB/1014R-PE	MPR-1014-PK/1014R-PK
Temperature Range		2°C to 14°C	2°C to 14°C	2°C to 14°C
Exterior Dimensions (W x D x H)*1	900 x 600 x 1790mm		1800 x 600 x 1790mm	
Interior Dimensions (W x D x H)	800 x 465 x 1300mm		1700 x 465 x 1300mm	
Net Weight (Approx.)	141 kg (311 lbs./)147 kg (324 lbs.)		246 kg (542 lbs./)258 kg (569 lbs.)	

*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.



2°C to 14°C	
158 L (5.5 cu.ft.)	
1090 (42.9") 450 (17.7") 800 (31.5")	

MPR-161D(H)

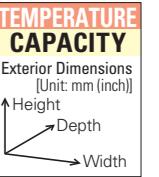
2°C to 14°C	
340 L (12.0 cu.ft.)	
1800 (70.9") 450 (17.7") 800 (31.5")	

MPR-311D(H)

D: Digital temp. display
Stainless steel interior cabinet
Card holder

2°C to 14°C	2°C to 14°C	2°C to 14°C
489 L (17.3 cu.ft.)	1033 L (36.5 cu.ft.)	1029 L (36.3 cu.ft.)
MPR-514	MPR-1014	MPR-1014R

2°C to



Optional Accessories (for MDF/MBR/MPR series)

Temperature Recorder / Mounting Brackets

Recorder Type	32-day Strip Chart Recorder			7-day Circular Chart Recorder			
	MTR-4015LH-PE	MTR-0621LH-PE	MTR-85H-PW	MTR-155H-PW	MTR-G04	MTR-G85C-PE	MTR-G3504
Model No.	-40 to +14	-6 to +20	-100 to +50	-170 to +30	-10 to +40	-100 to +40	-10 to +40/-60 to +40
Recording Range (°C)							
No Mounting Brackets Required	MDF-U334 MDF-U37D (upper room) MDF-U443	MPR-414F/FS MPR-215F [MBR-107D(H)]* [MBR-506D(H)]* [MBR-305D/DR]	MDF-193 MDF-U186S MDF-U443 MDF-394/594/794	MDF-1156	[MBR-1404G/GR]*	MDF-U500VX MDF-U700VX MDF-U33V MDF-U54V/U55V MDF-U74V MDF-U3386S MDF-U5386S MDF-U7386S MDF-C8V1	
MDF-53ROH-PW		MPR-161D(H)/311D(H)					
MPR-S30-PW	MDF-U5312 MDF-U537D (lower room) MDF-U731M MPR-215F MPR-414F/FS	MPR-514/514R MPR-1014/1014R MPR-721/721R MPR-1411/1411R					
MDF-S3040-PW	MDF-137/237/436						
Recorder Mounting Brackets			MDF-U500VX MDF-U700VX MDF-U33V MDF-U54V/U55V MDF-U74V MDF-U3386S MDF-U5386S MDF-U7386S MDF-C8V1				
MDF-S3085-PW							
MDF-S30150-PW				MDF-C2156VAN			
MPR-S7-PW					MPR-514/514R MPR-1014/1014R MPR-721/721R MPR-1411/1411R	MDF-U5312 MDF-U537D (lower room) MDF-U731M	MPR-215F MPR-414F/FS
MDF-S740-PW						MDF-137/237/436	
MPR-S740T-PW (for external mounting)							MDF-U537D (upper room) MDF-U334
Recording Paper	RP-40-PW	RP-06-PW	RP-85-PW	RP-155-PW	RP-G04-PW	RP-G85-PW	RP-G3504-PW
Ink Pen	—	—	DF-38FP-PW	DF-38FP-PW	PG-R-PW	PG-R-PW	PG-RB-PW

* MBR has recorder as a standard accessory.

Storage Racks

Model No.	MDF-19SC-PW	MDF-39SC-PW	MDF-49SC-PW	MDF-59SC-PW	MDF-48SC-PW	MDF-30SC-PW	MDF-70SC-PW
Case Dimensions (W x D x H)	207 x 144 x 413mm 8.1" x 5.7" x 16.3"	155 x 155 x 515mm 6.1" x 6.1" x 20.3"	207 x 144 x 539mm 8.1" x 5.7" x 21.2"	207 x 144 x 665mm 8.1" x 5.7" x 26.2"	280 x 440 x 255mm 11.0" x 17.3" x 10.0"	450 x 552 x 240mm 17.7" x 21.7" x 9.4"	279 x 552 x 307mm 10.9" x 21.7" x 12.1"
Number of Drawers	3	4	4	5	3	6	4
Applicable Model (Rack capacity)	MDF-193/193AT (6) MDF-C8V1 (4)	MDF-394 (20)	MDF-1156/1156ATN (6) MDF-C2156VAN (9)	MDF-594/594AT (18) MDF-794/794AT (24)	MDF-U4186S (8)	MDF-U4186S (4) MDF-U3386S (4)	MDF-U54V/U55V (8) MDF-U74V (12) MDF-U500VX (8) MDF-U700VX (12)
Recording Paper	RP-40-PW	RP-06-PW	RP-85-PW	RP-155-PW	RP-G04-PW	RP-G85-PW	RP-G3504-PW
Ink Pen	—	—	DF-38FP-PW	DF-38FP-PW	PG-R-PW	PG-R-PW	PG-RB-PW



Inventory Racks

Model No.	Box Type (Capacity)	External Dimensions (mm)	Freezer Model (Rack capacity)	
			Width	Depth
IR-212U-PW	2" (12)	142	425	245
IR-220U-PW	2" (20)	140	561	277
IR-224U-PW	2" (24)	140	561	331
IR-A216U-PW	2" (16)	139	559	225
IR-309U-PW	3" (9)	142	425	245
IR-312U-PW	3" (12)	140	561	277
IR-312U-PW	3" (12)	140	561	245
IR-316U-PW	3" (16)	140	561	331
IR-207C-PW	2" (7)	144	142	405
IR-209C-PW	2" (9)	144	142	518
IR-210C-PW	2" (10)	144	142	592
IR-213C-PW	2" (13)	144	142	747
IR-305C-PW	3" (5)	144	142	405
IR-306C-PW	3" (6)	144	142	518
IR-307C-PW	3" (7)	144	142	592
IR-309C-PW	3" (9)	144	142	747

* e.g., IR-220U-PW (6pcs.) plus IR-A216U-PW (6pcs.) are necessary for full storage into MDF-U33V.

Drawers for Bottom Compartments

Model No.	MDF-30R-PW	MDF-50R-PW
Interior Dimensions (W x D x H)	410 x 482 x 150mm 16.1" x 19.0" x 5.9"	540 x 483 x 150mm 21.3" x 19.0" x 5.9"
Material	Stainless steel	Stainless steel
Applicable Model () indicates maximum number of sets	MDF-U33V (2) MDF-U3386S (2)	MDF-U54V/U55V (1) MDF-U500VX (1)



MPR-41R-PW (6 drawers/set)
for the lower left side of MPR-414F/414FS

MPR-31RR-PW (3 drawers/set)
for the lower right side of MPR-311D (H)

Independent inner doors MDF-5ID-PW for MDF-U54V/U55V/U500VX, MDF-7ID-PW for MDF-U74V/U700VX

2 small inner doors make 1 set (2 sets are needed if all small inner door options are selected). Please be aware cooling capacity will be less than specified if small inner doors are installed.

CVK-NB2T Voltage Booster

- Stand-alone voltage booster • Power and Boost indicators • Exterior dimensions (W x D x H): 180 x 250 x 150 mm (7.1" x 9.8" x 5.9")
- Electrical: 208/230V, 1PH, 50/60Hz • Volts Boost: 18V, Cut in 210V, Cut out 220V • Maximum Load: 13A • Plug and Receptacle: 15A (6-15R, 6-15P)
- Applicable Models: -86°C Upright Freezers, MDF-594, 794 and 1156



Panasonic culturing systems provide an ideally controlled environment for various forms of cell culture. With precise in vitro control, these units offer a stable environment to match the needs of modern laboratory professionals.

Incubation CO₂ Incubators



inCu saFe

inCu saFe copper enriched stainless steel is Panasonic's new solution against contamination that combines the bacteria-killing property of copper with the corrosion resistance of stainless steel.



SafeCell UV

SafeCell UV system with programmable ultraviolet lamp, isolated from cell cultures, sterilizes chamber air and water in the humidifying pan to maintain contamination-free air conditions within the chamber.



H₂O₂ Contamination Control

The unique MCO-19AIC H₂O₂ decontamination system (optional) limits downtime to less than three hours when total chamber sterilization with verification is desired.



- inCu saFe interior
- SafeCell UV system
- Accurate temperature and CO₂ level control
- Double stackable



Dual IR Sensor

Panasonic proprietary single beam, dual detector infrared CO₂ system offers unprecedented control accuracy and stability by simultaneously measuring two wavelengths for continuous zero calibration.



IR Sensor

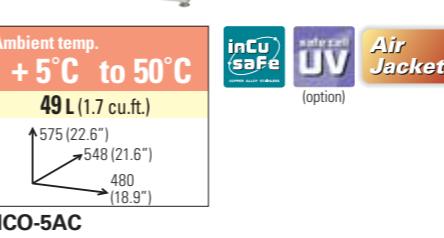
Panasonic's infrared CO₂ sensor utilizes a ceramic heater and eliminates conventional filament bulbs and electromechanical devices to deliver accurate CO₂ control with fast recovery following door openings.



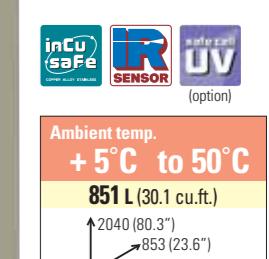
- inCu saFe interior
- SafeCell UV system
- H₂O₂ decontamination system (option)
- Accurate temperature and CO₂ level control
- Double stackable



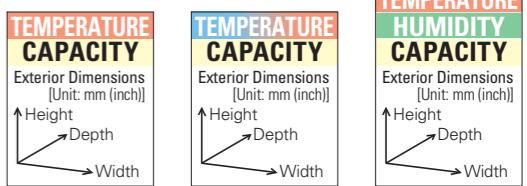
- inCu saFe interior
- SafeCell UV system (option)
- Accurate temperature and CO₂ level control
- Compact, Triple stackable



- Flexible large capacity
- inCu saFe interior
- SafeCell UV system (option)
- Accurate temperature and CO₂ level control
- Full view double paned glass door



Limited countries and regions

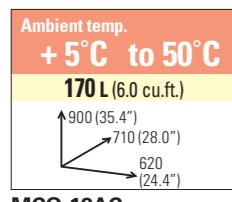


Culturing Systems

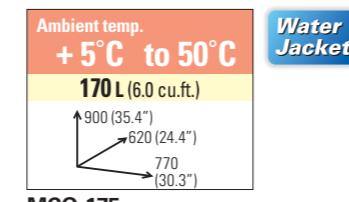
CO₂ Incubators



- inCu saFe interior
- SafeCell UV system (option)
- Accurate temperature and CO₂ level control
- Double stackable



- Water jacket incubator
- Accurate temperature and CO₂ level control



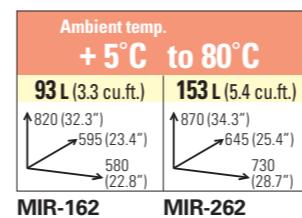
Heated Incubators

- Air jacket chamber
- Microcomputer PID control system



MIR-162

MIR-262



Cooled Incubators

- Wide temperature range
- Program function
- Microprocessor PID control system



MIR-154

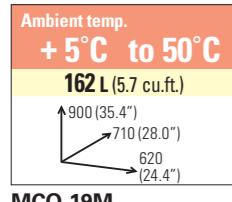


MIR-554

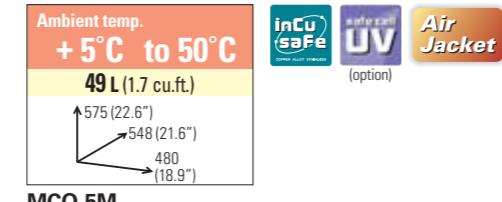
O₂/CO₂ Incubators



- inCu saFe interior
- SafeCell UV system (option)
- H₂O₂ decontamination system (option)
- Accurate temperature and gas control
- Double stackable



- inCu saFe interior
- SafeCell UV system (option)
- Accurate temperature and gas control
- Compact, Triple stackable



Shaker

- Low vibration, low noise
- Compact design, intelligent operation
- Easy installation in Panasonic cooled incubator or growth chamber



MIR-S100

Shaking Speed
50 to 500 rpm

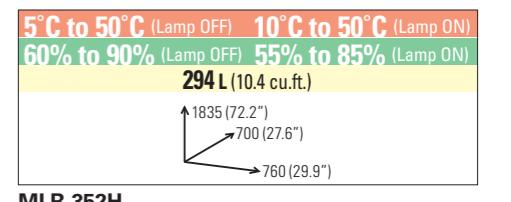
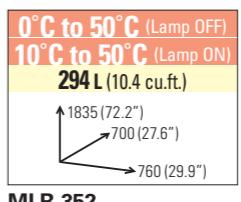


Versatile Environmental Test Chambers

- Suits a wide range of applications
- Program function
- Microprocessor PID control system
- Data logging function



MLR-352H



Specifications

CO ₂ Incubators						
110V, 60Hz	MCO-20AIC-PT	MCO-19AIC-PT	MCO-18AC-PT	MCO-5AC-PT	—	—
220V, 50Hz	MCO-20AIC-PB	MCO-19AIC-PB	MCO-18AC-PB	MCO-5AC-PB	—	—
220V, 60Hz	MCO-20AIC-PK	MCO-19AIC-PK	MCO-18AC-PK	MCO-5AC-PK	MCO-80IC-PK	—
230V, 50Hz (CE)	MCO-20AIC-PE	MCO-19AIC-PE	MCO-18AC-PE	MCO-5AC-PE	MCO-80IC-PE	MCO-175-PE

Temperature Range Ambient temperature + 5°C to 50°C

CO₂ Range 0 to 20%

Humidity 95 ± 5% RH

Interior Volume 215 litres (7.6 cu.ft.) 170 litres (6.0 cu.ft.) 170 litres (6.0 cu.ft.) 49 litres (1.7 cu.ft.) 851 litres (30.1 cu.ft.) 170 litres (6.0 cu.ft.)

Exterior Dimensions (W x D x H)*¹ 770 x 708 x 900mm 620 x 710 x 900mm 620 x 710 x 900mm 480 x 548 x 575mm 986 x 853 x 2040mm 770 x 620 x 900mm

Interior Dimensions (W x D x H) 620 x 523 x 665mm 490 x 523 x 665mm 490 x 523 x 665mm 350 x 378 x 375mm 806 x 693 x 1524mm 490 x 505 x 690mm

Net Weight (Approx.) 106 kg (234 lbs.) 93 kg (205 lbs.) 92 kg (203 lbs.) 49 kg (108 lbs.) 275 kg (606 lbs.) 108 kg (238 lbs.)

Description		Multi-Gas Incubators		Heated Incubators		Cooled Incubators	
Model No.	110V, 60Hz	MCO-19M-PT	MCO-5M-PT	MIR-162-PT	MIR-262-PT	MIR-154-PT	MIR-254-PT
	220V, 50Hz	MCO-19M-PB	MCO-5M-PB	MIR-162-PB	MIR-262-PB	MIR-154-PB	MIR-254-PB
	220V, 60Hz	MCO-19M-PK	MCO-5M-PK	MIR-162-PK	MIR-262-PK	MIR-154-PK	MIR-254-PK
	230V, 50Hz (CE)	MCO-19M-PE	MCO-5M-PE	MIR-162-PE	MIR-262-PE	MIR-154-PE	MIR-254-PE
	240V, 50Hz	—	—	MIR-162-PU	MIR-262-PU	—	—
Temperature Range	Ambient temperature + 5°C to 50°C		Ambient temperature + 5°C to 80°C		-10°C to 60°C		
CO ₂ Range	0 to 20%		—	—	—	—	—
O ₂ Range	1 to 18%, 22 to 80%		—	—	—	—	—
Humidity	95 ± 5% RH		—	—	—	—	—
Interior Volume	162 litres (5.7 cu.ft.)	49 litres (1.7 cu.ft.)	93 litres (3.3 cu.ft.)	153 litres (5.4 cu.ft.)	123 litres (4.3 cu.ft.)	238 litres (8.4 cu.ft.)	406 litres (14.3 cu.ft.)
Exterior Dimensions (W x D x H)* ¹	620 x 710 x 900mm	480 x 548 x 575mm	580 x 595 x 820mm	730 x 645 x 870mm	700 x 580 x 1018mm	700 x 580 x 1618mm	800 x 832 x 1810mm
Interior Dimensions (W x D x H)	490 x 523 x 665mm	350 x 378 x 375mm	450 x 460 x 450mm	600 x 510 x 500mm	620 x 368 x 555mm	620 x 368 x 1088mm	640 x 550 x 1160mm
Net Weight (Approx.)	94 kg (207 lbs.)	50 kg (110 lbs.)	44 kg (97 lbs.)	61 kg (134 lbs.)	78 kg (172.0 lbs.)	108 kg (238.1 lbs.)	195 kg (430 lbs.)

Description		Shaker			Description		Versatile Environmental Test Chambers		
Model No.	110V, 60Hz	MIR-S100-PT			Model No.	220V, 50Hz	MLR-352-PB	MLR-352H-PB	
	230V, 50Hz (CE)	MIR-S100-PE				220V, 60Hz	MLR-352-PK	MLR-352H-PK	
Shaking Speed	50 to 500 rpm		MLR-352-PE		MLR-352H-PE				
Exterior Dimensions (W x D x H)* ¹	410 x 305 x 120mm		Temperature Range 0°C to 50°C (Lamp OFF); 10 to 50°C (Lamp ON)		5°C to 50°C (Lamp OFF); 10 to 50°C (Lamp ON)				
Shaking Platform Dimensions (W x D)	380 x 250mm		Humidity Control Range 60°C to 90% RH (Light OFF); 55 to 85% (Light ON)		Interior Volume 294 litres (10.4 cu.ft.)				
Net Weight (Approx.)	15 kg (33 lbs.)		Exterior Dimensions (W x D x H)* ¹ 760 x 700 x 1835mm		Interior Dimensions (W x D x H) 520 x 490 x 1135mm				
	Net Weight (Approx.) 226 kg (498 lbs.)		Net Weight (Approx.) 235 kg (518 lbs.)						

*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.

Optional Accessories

Stacking Kits (for MCO series)

Upper unit	MCO-175	MCO-18AC/19AC/19M	MCO-20AIC	MCO-5AC/5M
Lower unit	MCO-175	MCO-175SB-PW	MCO-18SB-PW	MCO-175SB-PW
MCO-175	—	(Standard)* ¹	—	—
MCO-18AC/19AC/19M	—	(Standard)* ¹	—	—
MCO-20AIC	—	MCO-21SB-PW	(Standard)* ²	—
MCO-5AC/5M	—	—	—	(Standard)

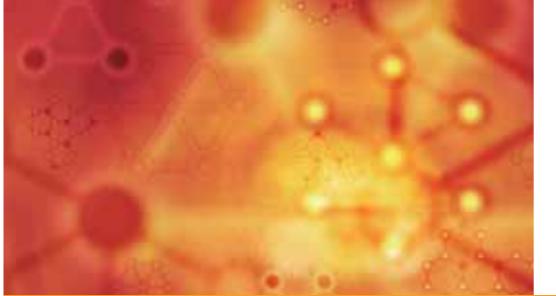
*1: 0.5 kit is included and fixed under rear cover of MCO-18AC/19AC/19M.

*2: 0.5 kit is included and fixed under rear cover of MCO-20AIC.

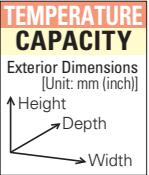
Other Options (for MCO series)

	MCO-175	MCO-18AC	MCO-19AC/19M	MCO-20AIC	MCO-5AC/5M	MCO-80IC	
Roller base	—	MCO-18RB-PW		MCO-20RB-PW	MCO-5RB-PW	—	
Small door	(Standard)	—	MCO-19ID-PW* ¹ (Standard for 19M)	MCO-20ID-PW	—	MCO-80ID-PW	
Tray	MCO-47ST-PW	MCO-47ST-PW		MCO-58ST-PW	MCO-30ST-PW	MCO-80ST-PW	
Half tray	MCO-25ST-PW		MCO-35ST-PW		—	—	
Gas regulator	MCO-100L-PW						
Anti-algae agent	MCO-100C-PW	—	—	—	—	—	
Data acquisition system/Interface board	—	MTR-5000-PW/MTR-L03-PW or MTR-480-PW					
Gas auto changer	—	MCO-21GC-PW		MCO-5GC-PW	MCO-80GC-PW	—	
STD gas auto calibration kit	—	—	MCO-SG-PW	—	—	—	
UV system set	—	MCO-18UVS3-PE* ² /PK* ³	MCO-19UVS-PE* ² /PK* ³	—	MCO-19UVS-PE* ² /PK* ³	MCO-80UVS-PE* ² /PK* ³	
UV replacement kit	—	MCO-20UV-PW					—
4-20mA Interface	—	—	MCO-420MA-PW				—
Rack	MKD-300T-PW	MCO-50T-PW		MKD-300T-PW	—	—	—
Stackable stand for 2 units	MKD-200T-PW	MKD-150T/200T-PW		MKD-200T-PW	MCO-80RBS-PW		—
Roller bottle rack mount	—	—	—	—	MCO-80AS-PW	—	—
Auto water supply system	—	—	—	—	—	—	—
H ₂ O ₂ decon set	—	—	MCO-HL-PE* ²	—	—	—	—
H ₂ O ₂ generator	—	—	MCO-HP-PW	—	—	—	—
H ₂ O ₂ reagent	—	—	MCO-H2O2-PE* ² /PV* ⁴	—	—	—	—

*1: MCO-19AC only *2: EU only [230V, 50Hz (CE)] *3: Korea only [220V, 60Hz] *4: Except for EU countries



The importance of high-performance sterilization is growing in medical facilities and laboratories. High pressure steam (autoclaves) is the most widely used due to its efficiency, speed and reliability. Incorporating microprocessor control and other advanced features, Panasonic autoclaves are easy to use and provide safe, dependable sterilizing.



Sterilizing & Drying

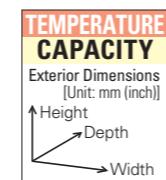
Laboratory Autoclaves



MLS-2420U



Panasonic sterilizers provide constant high-temperature conditions for dry heat sterilization. Panasonic ovens combine an easy-to-use design and strict safety features to facilitate a host of applications.



Sterilizing & Drying

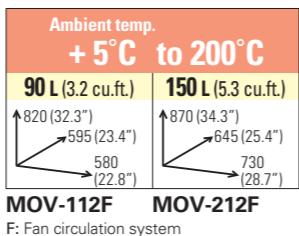
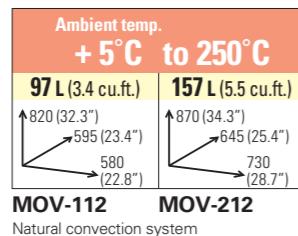
Electric Ovens



MOV-112/112F



MOV-212/212F



Specifications

Model No.	Description	Electric Ovens					Dry Heat Sterilizers
		110V, 60Hz	MOV-112-PT	MOV-212-PT	MOV-112F-PT	MOV-212F-PT	—
	220V, 50Hz	MOV-112-PB	MOV-212-PB	MOV-112F-PB	MOV-212F-PB	MOV-112S-PB	MOV-212S-PB
	220V, 60Hz	MOV-112-PK	MOV-212-PK	MOV-112F-PK	MOV-212F-PK	MOV-112S-PK	MOV-212S-PK
	230V, 50Hz (CE)	MOV-112-PE	MOV-212-PE	MOV-112F-PE	MOV-212F-PE	MOV-112S-PE	MOV-212S-PE
	240V, 50Hz	MOV-112-PU	MOV-212-PU	MOV-112F-PU	MOV-212F-PU	MOV-112S-PU	MOV-212S-PU
	Temperature Range	Ambient temperature + 5°C to 250°C			Ambient temperature + 5°C to 200°C		
	Exterior Dimensions (W x D x H)*1	580 x 595 x 820mm	730 x 645 x 870mm	580 x 595 x 820mm	730 x 645 x 870mm	580 x 595 x 820mm	730 x 645 x 870mm
	Interior Dimensions (W x D x H)	450 x 475 x 450mm	600 x 525 x 500mm	450 x 450 x 450mm	600 x 500 x 500mm	450 x 450 x 450mm	600 x 500 x 500mm
	Net Weight (Approx.)	47 kg (104 lbs.)	63 kg (139 lbs.)	50 kg (110 lbs.)	66 kg (146 lbs.)	50 kg (110 lbs.)	66 kg (146 lbs.)

*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.

Optional Accessories (for MLS Models)



For MLS-3751/L/3781/L



For MLS-3751/L/3781/L



For MLS-3751/L/3781/L



For MLS-3751/L/3781/L



For MLS-2420/U



For MLS-3020/U

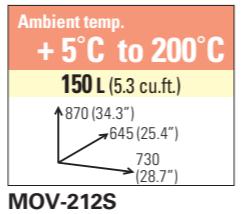
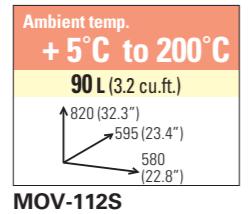


For MLS-3751/L/3781/L



For MLS-3751/L/3781/L

Dry Heat Sterilizers



With dependable technology and flexible response, Panasonic systems provide reliable support for biotechnological and other experimentation by delivering a clean, contamination-free working area.

Experiment Systems

Biological Safety Cabinet



**Class II
Type AB3**

Note: Export models are not equipped with gas fittings.
If plans call for the use of gas burners on clean benches,
please ask your local Panasonic dealer for more information.

MHE-130AB3

Limited countries and regions

Bio-Clean Benches (Forced air circulation exhaust system)



1890 (74.4")
811 (31.9")
930 (36.6")
MCV-B91F
MCV-B131F
MCV-B161F
1890 (74.4")
811 (31.9")
1390 (54.7")
MCV-B91S
MCV-B131S
MCV-B161S
1890 (74.4")
811 (31.9")
1690 (66.5")
MCV-B161S

Specifications

Description	Biological Safety Cabinet	
Model No.	220V, 60Hz	MHE-130AB3T-PK
Particle Collection Efficiency	99.99% (0.3μm DOP)	
Exhaust Volume	8.1m³/min.	
Exterior Dimensions (W x D x H)*1	1350 x 791 x 2372mm	
Interior Dimensions (W x D x H)	1200 x 601 x 680mm	
Net Weight (Approx.)	335 kg (739 lbs.)	

Description	Bio-Clean Benches (Forced air circulation exhaust system)						
	220V, 60Hz	—	MCV-B91ST-PK	MCV-B131FT-PK	MCV-B131ST-PK	MCV-B161FT-PK	MCV-B161ST-PK
Model No.	240V, 50Hz	MCV-B91FT-PS	—	—	—	MCV-B161FT-PS	—
	240V, 50Hz	—	—	—	—	MCV-B131ST-PU	—
Particle Collection Efficiency					99.99% (0.3μm DOP)		
Air Flow			10/11m³/min.		14/14m³/min.		19/21m³/min.
Exterior Dimensions (W x D x H)*1			930 x 811 x 1890mm		1390 x 811 x 1890mm		1690 x 811 x 1890mm
Interior Dimensions (W x D x H)			900 x 605 x 680mm		1360 x 605 x 680mm		1660 x 605 x 680mm
Net Weight (Approx.)			209 kg (461 lbs.)		263 kg (580 lbs.)		306 kg (675 lbs.)

Description	Clean Benches (Standard type)								
	220V, 60Hz	MCV-91BNFT-PK	MCV-91BNST-PK	MCV-91BNNT-PK	MCV-131BNFT-PK	MCV-131BNST-PK	MCV-131BNNT-PK	MCV-710ATST-PK	MCV-711ATST-PK
Particle Collection Efficiency					99.99% (0.3μm DOP)				
Air Flow			18m³/min.		23m³/min.		8m³/min.	4m³/min.	
Exterior Dimensions (W x D x H)*1			930 x 770 x 1900mm		1390 x 770 x 1900mm		830 x 610 x 1070mm	830 x 610 x 1000mm	
Interior Dimensions (W x D x H)			900 x 610 x 680mm		1360 x 610 x 680mm		710 x 477 x 620mm	730 x 484 x 640mm	
Net Weight (Approx.)		211 kg (465 lbs.)	210 kg (463 lbs.)		262 kg (578 lbs.)	260 kg (573 lbs.)	74 kg (163 lbs.)	59 kg (130 lbs.)	

*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.



MCV-131BNF

1900 (74.8")
770 (30.3")
930 (36.6")

MCV-91BNF
MCV-91BNS
MCV-91BNN
MCV-131BNF
MCV-131BNS
MCV-131BNN



MCV-710ATS

1070 (42.1")
610 (24.0")
830 (32.7")

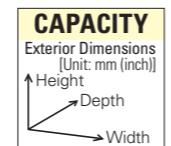
MCV-710ATS
Standard type

1000 (39.4")
610 (24.0")
810 (31.9")

MCV-711ATS
Mericleones

Note: Export models are not equipped with gas fittings.
If plans call for the use of gas burners on clean benches,
please ask your local Panasonic dealer for more information.

Complex and troublesome, drug dispensing operation demands meticulous care. Designed to improve dispensing efficiency, Panasonic systems are equipped with essential functions and allow system development combining patient information control hardware and software to meet the exacting requirements of dispensaries.



Dispensing Systems

ATC (Automatic Tablet Counting and Packaging Machines)

Compact ATC



- Up to 256 Tablet cases
- 1745 (68.7")
790 (31.1")
1030 (40.5")
- More advanced unit-dose packaging
- New concept-based hardware
- Hardware reduces dispensing errors

- Up to 320 Tablet cases
- 1960 (77.2")
790 (31.1")
1030 (40.5")

ATC-320G



- Up to 71 Tablet cases
- 670 (26.4")
700 (27.6")
790 (31.1")

ATC-M7G

Tablet Dispenser

Multi-Drive Vial Filler

Compact Vial Filler



- Counting Capacity: Max. 999
(Stock check function 9999)
- 391.5 (15.4")
225 (8.9")
180 (7.1")



- Counting Capacity: Max. 999
(Stock check function 9999)
- 395.5 (15.6")
225 (8.9")
684 (26.9")



- Up to 64 Tablet cases
- 645 (25.4")
700 (27.6")
730 (28.7")

MVF-64

Specifications

Description	ATC (Automatic Tablet Counting and Packaging Machine)		Compact ATC
Model No.	220V, 50Hz	ATC-256G-PC	ATC-320G-PC
Tablet Cases	256	320	71
Exterior Dimensions (W x D x H)*1	1030 x 790 x 1745mm	1030 x 790 x 1960mm	799 x 700 x 670mm
Net Weight (Approx.)	500 kg (1102 lbs.)	560 kg (1234 lbs.)	150 kg (331 lbs.)

Description	Tablet Dispenser	Multi-Drive Vial Filler	Compact Vial Filler
Model No.	220V, 50Hz	MVF-C1-PC	MVF-C6-PC
Cabinet Dimensions (W x D x H)	180 x 225 x 391.5mm	684 x 225 x 395.5mm	730 x 700 x 645mm
Tablet Cases	1	6	64
Processing Speed	5 vials/minute (with 50 tablets per vial)	Maximum 5 vials per minute (50 tablet per vial)	5 vials per minute (50 tablet per vial)
Counting Capacity	Maximum 999 (Stock check function 9999)		
Exit Chute and Capacity	300cc chute with gate and magnetic sensor	300cc chute with gate and magnetic sensor	250cc chute with gate and magnetic sensor
Net Weight (Approx.)	5 kg (11 lbs.)	14 kg (31 lbs.)	131 kg (289 lbs.)

*1 Exterior dimensions of main cabinet only - see dimension drawings on flyers showing handles and other external projections.

Optional Accessories (for ATC-320G/256G)

Cabinets

Modular configuration allows easy building of customized ATC.

ATC-320GAD-PC

Add-on Unit
(canisters and drawers not included)



Dimensions: 1,030 (W) x 790 (D) x 245 (H)mm

Canister Drawers:
Not included (up to 4 drawers installable)

Compatible Drawers:
Standard Canister Drawers, Smart Canister Drawers,
Storage Drawers

ATC-320GSC-PC

Smart Canister
Drawer



Canister Storage Capacity:
TK-60S (compatible with Smart Canister
Drawer) x 16 (Canisters are available
separately)

ATC-320GNR-PC

Standard Canister
Drawer



Canister Storage Capacity:
TK-60S x 16
(Canisters are available separately)

ATC-320GST-PC

Storage Drawer



Canister Storage Capacity:
Canisters cannot be installed