

SPECIFICATIONS

Name	Biomedical Freezer		
Model	MDF-U333	MDF-U537	MDF-U537D
External dimensions	W614 x D733 x H1620 (mm)	W804 x D772 x H1802 (mm)	W804 x D772 x H1802 (mm)
Internal dimensions	W490 x D485 x H1290 (mm)	W658 x D607 x H1272 (mm)	W658 x D607 x H589 (mm) Upper chamber W658 x D607 x H603 (mm) Lower chamber
Effective capacity	274 L	482 L	452 L
Exterior	Painted steel		
Interior	Styrol resin		
Insulation	Rigid polyurethane foamed-in place		
Outer door	Painted steel		
Lock	1		
Caster	4		
Leveling leg	2		
Evaporator	Tube on sheet type (also used as a shelf)		
Access port	Diameter 30 mm 1 on left side	Diameter 30 mm 1 on back side	Diameter 30 mm 2 on back side
Condenser	Wire and tube type		
Compressor	Hermetic type, 225 W	Hermetic type, 350 W	
Refrigerant	R-134a	R-407D	
Temperature controller	Electronics controller (between -18 and -40°C)		
Temperature display	Digital display (between -50 and +50°C)		
Temperature sensor	Thermistor sensor		
Temperature alarm	Flash of digital indicator and alarm lamp, Buzzer, (Remote alarm)		
Accessories	1 set of key, 1 scraper 4 card holders 4 large baskets W446 x D369 x H220 (mm) 1 small basket W487 x D221 x H155 (mm)	1 set of key, 1 scraper 14 card holders 6 large baskets for upper chamber W290 x D536 x H136 (mm) 8 small baskets for lower chamber W290 x D536 x H100 (mm)	
Weight	81 kg	131 kg	136 kg
Battery	For power failure alarm, Nickel hydrogen battery, DC 6V, 1100mAh, Automatic charge		
Optional component	Automatic temperature recorder (MTR-G85) Mounting kit for automatic temperature recorder (MPR-S7, MDF-S740T)		

Note: Design or specifications will be subject to change without notice.

PERFORMANCE

MDF-U333

Cooling performance	-30°C (ambient temperature; 35°C, no load)			
Temperature control range	-20°C to -30°C			
Rated voltage	AC 110 V	AC 115 V	AC 220 V	AC 220 to 240 V
Rated frequency	60 Hz	60 Hz	60 Hz	50 Hz
Rated power consumption	150 W	140 W	140 W	155 W
Noise level	37 dB [A] (background noise; 20 dB)			
Maximum pressure	1380 kPa			

MDF-U537

Cooling performance	-30°C (ambient temperature; 35°C, no load)			
Temperature control range	-20°C to -30°C			
Rated voltage	AC 110 V	AC 115 V	AC 220 V	AC 220 to 240 V
Rated frequency	60 Hz	60 Hz	60 Hz	50 Hz
Rated power consumption	220 W	230 W	190 W	205 W
Noise level	42 dB [A] (background noise; 20 dB)			
Maximum pressure	1850 kPa			

MDF-U537D

Cooling performance	-30°C (ambient temperature; 35°C, no load)			
Temperature control range	-20°C to -30°C			
Rated voltage	AC 110 V	AC 115 V	AC 220 V	AC 220 to 240 V
Rated frequency	60 Hz	60 Hz	60 Hz	50 Hz
Rated power consumption	250 W	260 W	205 W	225 W
Noise level	42 dB [A] (background noise; 20 dB)			
Maximum pressure	2250 kPa			

Note : The unit with CE mark complies with EC directives 89/336/EEC, 93/68/EEC and 73/23/EEC.