

# ***BIOMEDICAL COLD CHAIN PRODUCT PORTFOLIO***

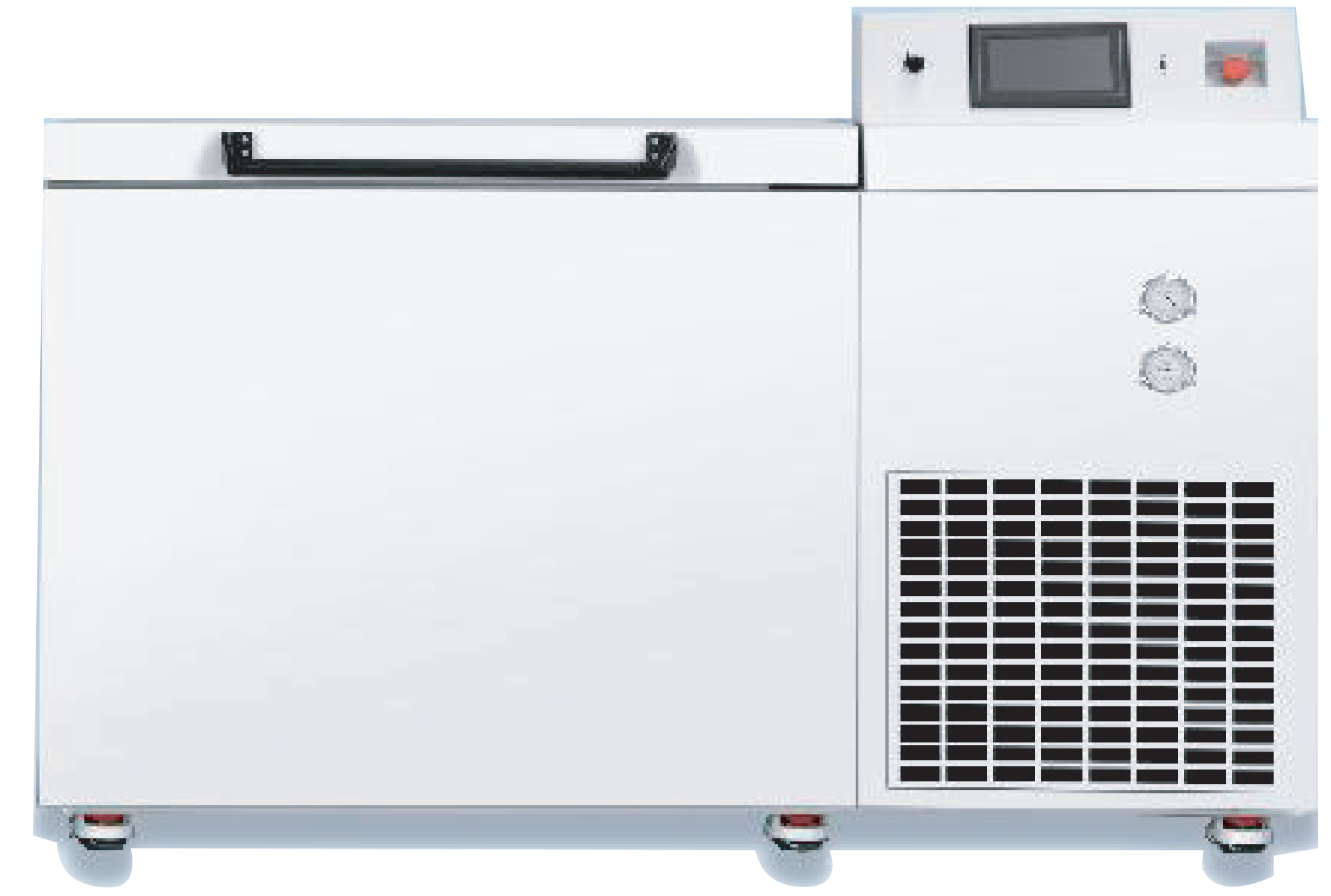


## -150°C Cryogenic Freezer

Safe and reliable cryogenic storage solution.

### Features

- 7" Touch Screen microprocessor temperature controller.
- Low-noise and high-performance cooling system. 4h reaches -150°C.
- Audible and visual alarm system.
- Options: LN2 backup system, chart recorder, racks and boxes.



### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-150H128	-40 to -150°C	128	4.52	Direct	Manual	220V, 50Hz	3125W	Tecumseh 1	R5001	500*450*578	1560*957*1178	245

## -86°C ULT Freezer

Dual-cooling system, ultimate sample protection, and efficient sample storage.



588L



728L



838L

### Features

- Dual Cooling System, 2 independent cooling circuit and each of them able to maintain the inner temperature at -70°C.
- 7" Touch Screen microprocessor temperature controller.
- Optimized sample storage design.
- Audible and visual alarm system.
- Options: LN2 backup system, chart recorder, racks and boxes, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
UFV-86-588ED	-40 to -86°C	588	20.77	Direct	Manual	220V, 50/60Hz	1500W	Secop * 2	R4001	606*738*1310	891*1155*1995	283
UFV-86-728ED	-40 to -86°C	728	25.71	Direct	Manual	220V, 50/60Hz	1400W	Secop * 2	R4001	963*571*1350	1248*975*1995	316
UFV-86-838ED	-40 to -86°C	838	29.69	Direct	Manual	220V, 50/60Hz	1700W	Secop * 2	R4001	894*718*1310	1179*1135*1995	332



## -86°C ULT Freezer

Simplified and optimized self-cascade refrigeration system ensure rapid cooling speed and minimum failure rate.



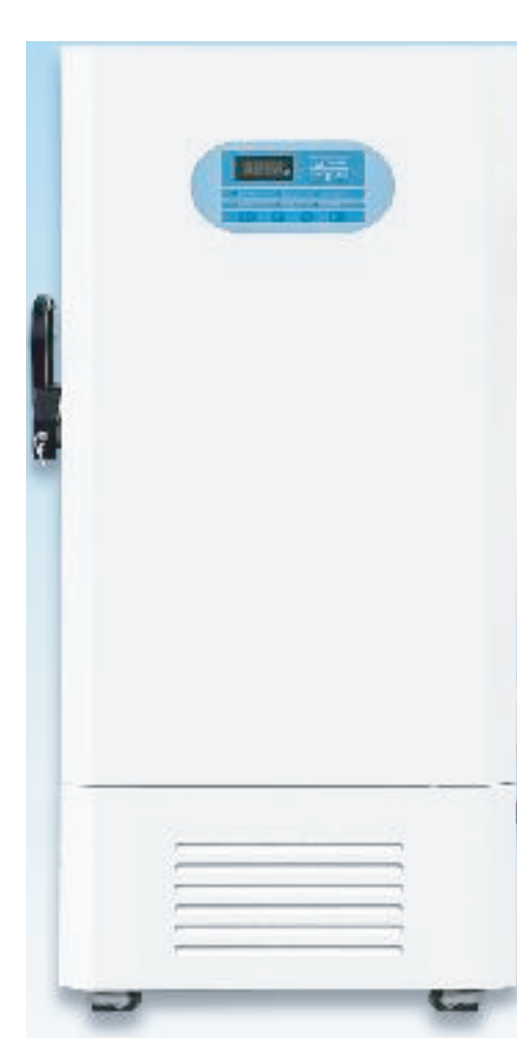
60L(Under-counter)



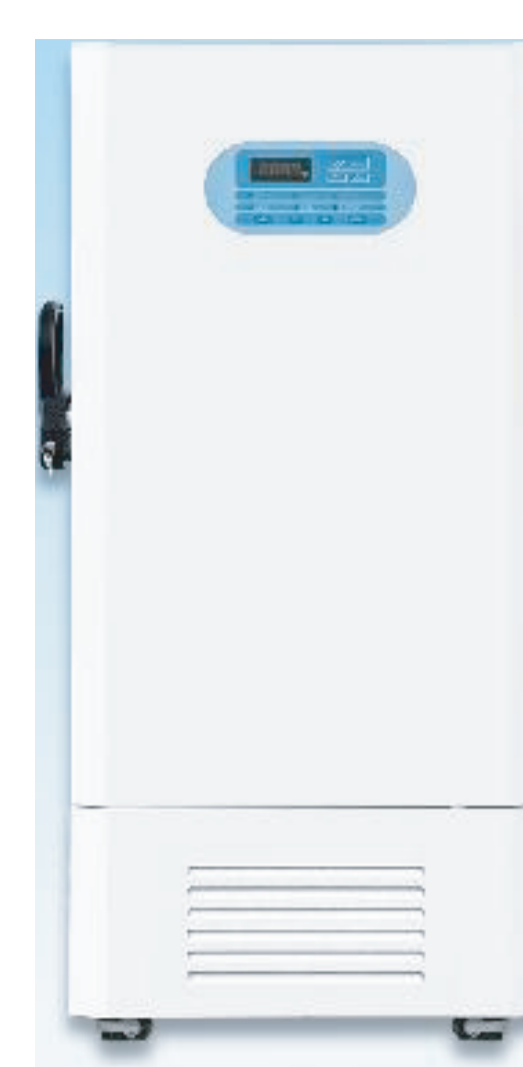
60L



180L



410L



585L



840L

### Features

- Excellent cooling performance.
- Optimized sample storage design.
- Audible and visual alarm system.
- Options: LN2 backup system, chart recorder, racks and boxes, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
UFV-86-60U	-40 to -86°C	60	2.12	Direct	Manual	220V, 50/60Hz	363W	Cubigel * 1	R4001	330*453*410	904*798*748	94
UFV-86-60B	-40 to -86°C	60	2.12	Direct	Manual	220V, 50/60Hz	255W	Cubigel * 1	R4001	330*453*410	904*798*748	95
UFV-86-180B	-40 to -86°C	180	6.36	Direct	Manual	220V, 50/60Hz	380W	Cubigel * 1	R4001	463*465*830	843*861*1584	165
UFV-86-410B	-40 to -86°C	410	14.48	Direct	Manual	220V, 50/60Hz	770W	Cubigel * 1	R4001	604*575*1180	884*957*1936	223
UFV-86-585B	-40 to -86°C	585	20.66	Direct	Manual	220V, 50/60Hz	712W	Cubigel * 1	R4001	604*738*1310	885*1120*1985	260
UFV-86-840B	-40 to -86°C	840	29.66	Direct	Manual	220V, 50/60Hz	1530W	Cubigel * 1	R4001	892*718*1310	1169*1100*1985	340

## -86°C ULT Freezer

Large screen and user-friendly.

### Features

- Flexible storage solution. Easy access to samples.
- 7' Touch Screen microprocessor temperature controller.
- Low-noise and fast cooling system.
- Audible and visual alarm system.
- Options: LN2 backup system, racks and boxes, 110V/60Hz.



### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-86V340E	-40 to -86°C	340	12.01	Direct	Manual	220V, 50/60Hz	810W	Secop * 2	R4001	488*607*1140	854*1006*1907	268
MDF-86V408E	-40 to -86°C	408	14.41	Direct	Manual	220V, 50/60Hz	1200W	Secop * 2	R4001	606*575*1180	872*1028*1946	268



## -86°C ULT Freezer

Eco-friendly and Energy Saving cascade cooling system, green HC refrigerant.



338L



408L



588L



728L



838L

### Features

- Energy saving and Eco-friendly cascade cooling system.
- 7" Touch Screen microprocessor temperature controller.
- Audible and visual alarm system.
- Options: LN2 backup system, racks and boxes, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-86V338	-40 to -86°C	338	11.94	Direct	Manual	220V, 50/60Hz	1970W	Secop * 2	R290, R170	488*607*1140	854*1072*1907	296
MDF-86V408	-40 to -86°C	408	14.41	Direct	Manual	220V, 50/60Hz	1970W	Secop * 2	R290, R170	606*575*1180	891*992*1945	292
MDF-86V588	-40 to -86°C	588	20.77	Direct	Manual	220V, 50/60Hz	1970W	Secop * 2	R290, R170	606*738*1310	963*571*1350	335
MDF-86V728	-40 to -86°C	728	25.71	Direct	Manual	220V, 50/60Hz	1970W	Secop * 2	R290, R170	891*1155*1995	1248*975*1995	380
MDF-86V838	-40 to -86°C	838	29.59	Direct	Manual	220V, 50/60Hz	1970W	Secop * 2	R290, R170	894*718*1310	1179*1135*1995	397

## -86°C/-60°C ULT Horizontal Freezer

Convenient, safe and reliable cold storage solution for life science, pharmacy, medical, and industrial applications.

### Features

- Top-open door, easy storage and great temperature uniformity.
- Audible and visual alarm system.
- Options: LN2 backup system, datalogger, racks and boxes, 110V/60Hz.



105L



485L

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-86H105	-40 to -86°C	105	3.71	Direct	Manual	220V, 50/60Hz	500W	Cubigel * 1	R4001	480*380*665	680*580*935	65
MDF-86H485	-40 to -86°C	485	17.13	Direct	Manual	220V, 50/60Hz	670W	Secop * 1	R4001	1455*525*674	1695*840*962	130
MDF-60H05	-25--60°C	105	3.71	Direct	Manual	220V, 50/60Hz	380W	Cubigel * 1	R4001	480*380*665	680*580*935	65
MDF-60H485	-25--60°C	485	17.13	Direct	Manual	220V, 50/60Hz	600W	Cubigel * 1	R4001	1455*525*665	1670*810*930	124



## -25°C/-40°C Biomedical Freezer (Double Door)

Independent chamber, controller, and cooling system.

### Features

- Two chambers can be controlled separately.
- Drawers design for easy storage.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes, 110V/60Hz.



358L



528L

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-25V358	-10 to -25°C	358	12.64	Direct	Manual	220V, 50/60Hz	310W	CN Brand * 2	R290	466*636*625*2	720*830*1870	138
MDF-25V528	-10 to -25°C	528	18.65	Direct	Manual	220V, 50/60Hz	230W	CN Brand * 2	R290	651*632*635*2	900*818*1875	160
MDF-40V358	-20 to -40°C	358	12.64	Direct	Manual	220V, 50/60Hz	345W	CN Brand * 2	R290	466*636*625*2	720*830*1870	138
MDF-40V528	-20 to -40°C	528	18.65	Direct	Manual	220V, 50/60Hz	452W	CN Brand * 2	R290	651*632*635*2	900*818*1875	160

## -25°C/-40°C Biomedical Freezer

General purpose biomedical freezers for hospitals, laboratories and other biomedical institutions.



100L



278L



268L



328L



936L

### Features

- Microprocessor controller and digital display.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-25V100	-10 to -25°C	100	3.53	Direct	Manual	220V, 50/60Hz	73W	CN Brand * 1	R600a	410*410*670	540*553*877	32
MDF-25V278W	-10 to -25°C	278	9.82	Direct	Manual	220V, 50/60Hz	195W	CN Brand * 1	R290	480*415*1460	659*600*1694	105
MDF-25V268E	-10 to -25°C	268	9.46	Direct	Manual	220V, 50/60Hz	202W	Cubigel * 1	R290	508*455*1137	673*676*1620	92
MDF-25V328E	-10 to -25°C	328	11.58	Direct	Manual	220V, 50/60Hz	202W	Cubigel * 1	R290	508*455*1393	673*675*1881	104
MDF-25V936	-10 to -25°C	936	33.05	Direct	Manual	220V, 50/60Hz	1000W	Secop * 2	R404A	1000*700*1335	1304*1000*2017	378
MDF-40V278W	-20 to -40°C	278	9.72	Direct	Manual	220V, 50/60Hz	280W	Cubigel * 1	R290	480*415*1460	659*600*1694	110
MDF-40V268E	-20 to -40°C	268	9.46	Direct	Manual	220V, 50/60Hz	309W	Cubigel * 1	R290	508*455*1137	673*676*1620	99
MDF-40V328E	-20 to -40°C	328	11.58	Direct	Manual	220V, 50/60Hz	330W	Cubigel * 1	R290	508*455*1393	673*676*1886	113
MDF-40V936	-20 to -40°C	936	33.05	Direct	Manual	220V, 50/60Hz	1000W	Secop * 2	R404A	1000*700*1335	1304*1000*2017	378



# -25°C/-40°C Combined Refrigerator and Freezer

Independent chamber, controller, and cooling system.



300L



368L



528L

## Features

- Forced-air cooling for refrigerator chamber and direct cooling for freezer chamber.
- Microprocessor controller and digital display.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes, 110V/60Hz.

## Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MRF-25V300	R: 2-8°C F: -10 to -25°C	300	10.59	R: Forced-Air F: Direct	R: Auto F: Manual	220V, 50/60Hz	349W	CN Brand * 2	R290	R: 565*480*759 F: 461*465*600	650*620*1980	100
MRF-25V368	R: 2-8°C F: -10 to -25°C	368	13.00	R: Forced-Air F: Direct	R: Auto F: Manual	220V, 50/60Hz	380W	CN Brand * 2	R290	R: 580*626*625 F: 466*636*625	720*830*1870	140
MRF-25V528	R: 2-8°C F: -10 to -25°C	528	18.65	R: Forced-Air F: Direct	R: Auto F: Manual	220V, 50/60Hz	431W	CN Brand * 2	R290	R: 765*640*635 F: 651*636*635	900*818*1870	168
MRF-40V368	R: 2-8°C F: -10 to -25°C	368	13.00	R: Forced-Air F: Direct	R: Auto F: Manual	220V, 50/60Hz	458W	CN Brand * 2	R290	R: 580*626*625 F: 466*636*625	720*830*1870	135
MRF-40V528	R: 2-8°C F: -10 to -25°C	528	18.65	R: Forced-Air F: Direct	R: Auto F: Manual	220V, 50/60Hz	527W	CN Brand * 2	R290	R: 765*640*635 F: 651*636*635	900*818*1870	174

# -25°C/-40°C Biomedical Horizontal Freezer

Reliable Cold storage solutions for hospitals, laboratories and other biomedical institutions.

## Features

- Microprocessor controller and digital display.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes, 110V/60Hz.



105L



305L



485L

## Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-25H105	-10 to -25°C	105	3.71	Direct	Manual	220V, 50/60Hz	174W	CN Brand * 1	R290	480*380*665	621*588*883	31
MDF-25H305	-10 to -25°C	305	10.77	Direct	Manual	220V, 50/60Hz	128W	CN Brand * 1	R134A	1000*520*665	1140*742*883	66
MDF-25H485	-10 to -25°C	485	17.13	Direct	Manual	220V, 50/60Hz	295W	Cubigel * 1	R290	1455*525*665	1655*755*915	124
MDF-40H105	-20 to -40°C	105	3.71	Direct	Manual	220V, 50/60Hz	175W	Cubigel * 1	R290	480*380*665	694*686*942	50
MDF-40H305	-20 to -40°C	305	10.77	Direct	Manual	220V, 50/60Hz	162W	Cubigel * 1	R290	1000*520*665	1210*833*941	80
MDF-40H485	-20 to -40°C	485	17.13	Direct	Manual	220V, 50/60Hz	295W	Cubigel * 1	R290	1455*525*665	1667*863*949	124



## 2~8°C Biomedical Refrigerator

General purpose biomedical refrigeration storage equipment.



60L

316L

416L

416L(Solid Door)

656L, 1006L

656L, 1006L(Solid Door)

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- Dew-congealing resistible and high transparency glass door.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MPC-5V60G	2 - 8°C	60	2.12	Forced-Air	Auto	220V, 50/60Hz	75W	CN Brand * 1	R600a	410*315*560	490*440*710	33
MPC-5V316	2 - 8°C	316	11.16	Forced-Air	Auto	220V, 50/60Hz	286W	CN Brand * 1	R290	540*425*1380	640*554*1925	93
MPC-5V416	2 - 8°C	416	14.69	Forced-Air	Auto	220V, 50/60Hz	330W	CN Brand * 1	R290	685*429*1380	785*552*1927	120
MPC-5V416A	2 - 8°C	416	14.69	Forced-Air	Auto	220V, 50/60Hz	273W	CN Brand * 1	R290	685*429*1380	785*595*1927	114
MPC-5V656	2 - 8°C	656	23.17	Forced-Air	Auto	220V, 50/60Hz	403W	CN Brand * 1	R290	1100*454*1325	1220*630*1885	166
MPC-5V656A	2 - 8°C	656	23.17	Forced-Air	Auto	220V, 50/60Hz	310W	CN Brand * 1	R290	1100*454*1325	1220*630*1885	154
MPC-5V1006	2 - 8°C	1006	35.53	Forced-Air	Auto	220V, 50/60Hz	400W	CN Brand * 1	R290	1100*684*1325	1220*860*1885	189
MPC-5V1006A	2 - 8°C	1006	35.53	Forced-Air	Auto	220V, 50/60Hz	319W	CN Brand * 1	R290	1100*684*1325	1220*860*1885	178

## 2~8°C Biomedical Refrigerator

Glass door with heater, available for high humidity area.

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- USB port for record download, audible and visual alarm system.
- Self-closing door with heater.
- Audible and visual alarm system.
- Options: datalogger, 110V/60Hz.



315L

415L

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MPC-5V315	2 - 8°C	315	11.12	Forced-Air	Auto	220V, 50/60Hz	294W	CN Brand * 1	R290	540*425*1380	640*554*1925	95
MPC-5V415	2 - 8°C	415	14.66	Forced-Air	Auto	220V, 50/60Hz	330W	CN Brand * 1	R290	685*429*1380	785*552*1927	123



## 2~8°C Pharmacy Refrigerator

Professional biomedical refrigeration storage equipment.



100L



100L(Solid Door)



236L



312L



1500L

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- ABS interior material for easy clean up (some models).
- Audible and visual alarm system.
- Options: datalogger, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MPC-5V100	2 - 8°C	100	3.53	Forced-Air	Auto	220V, 50/60Hz	80W	CN Brand *1	R600a	385*356*737	505*510*875	35
MPC-5V100A	2 - 8°C	100	3.53	Forced-Air	Auto	220V, 50/60Hz	91W	CN Brand *1	R600a	385*356*737	505*525*900	30
MPC-5V236	2 - 8°C	236	8.33	Forced-Air	Auto	220V, 50/60Hz	221W	CN Brand *1	R600a	534*406*1150	625*575*1707	73
MPC-5V312	2 - 8°C	312	11.02	Forced-Air	Auto	220V, 50/60Hz	312W	CN Brand *1	R290	560*485*1350	650*624*1902	86
MPC-5V1500	2 - 8°C	1500	52.97	Forced-Air	Auto	220V, 50/60Hz	1065W	Secop*1	R134a	1680*640*1420	1800*775*1965	245

## 2~8°C Ex Refrigerator

Anti-explosion Refrigerator.

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- 304 stainless steel interior material for security storage.
- Audible and visual alarm system.
- Options: datalogger, 110V/60Hz.



416L



416L

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MPC-5V416EX	2 - 8°C	416	14.69	Forced-Air	Auto	220V, 50/60Hz	283W	CN Brand *1	R290	685*429*1380	785*552*1927	130



## 4°C Blood Bank Refrigerator

Guarantee the safe storage of blood and blood related products.



108L



208L



368L



658L



1008L

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- Temperature printer help to save the temperature record.
- 304 stainless steel interior material for easy clean up and longer life time.
- Audible and visual alarm system.
- Options: Datalogger, 110V/60Hz.

### Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MBC-4V108	4±1°C	108	3.81	Forced-Air	Auto	220V, 50/60Hz	185W	EMBRACO/1	R134a	432*462*555	522*635*1050	74
MBC-4V208	4±1°C	208	7.35	Forced-Air	Auto	220V, 50/60Hz	188W	EMBRACO/1	R134a	432*462*1055	522*635*1530	98
MBC-4V368	4±1°C	368	13.00	Forced-Air	Auto	220V, 50/60Hz	355W	EMBRACO/1	R134a	685*429*1380	785*598*1925	128
MBC-4V658	4±1°C	658	23.24	Forced-Air	Auto	220V, 50/60Hz	391W	SECOP/1	R290	1100*454*1325	1220*635*1885	202
MBC-4V1008	4±1°C	1008	35.60	Forced-Air	Auto	220V, 50/60Hz	415W	SECOP/1	R290	1100*684*1325	1220*865*1885	265

## 22°C Platelet Shacking Incubator

Provide a reliable storage environment for platelets.

### Features

- Microprocessor controller, digital display and forced-air cooling system.
- UV lamp and stable oscillator.
- 304 stainless steel interior material for easy clean up and longer life time.
- Audible and visual alarm system.
- Options: Datalogger, 110V/60Hz.



### Specifications

Model	Temp.	Capacity (450ml blood bag)	Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
									Interior	Exterior	
MDC-5	22±2°C	10 bags/ 5 shelves	Forced-Air	Auto	220V, 50/60Hz	197W	EMBRACO/1	R134A	427*360*467	522*600*1035	65
MDC-10	22±2°C	20 bags/ 10 shelves	Forced-Air	Auto	220V, 50/60Hz	280W	EMBRACO/1	R134A	432*462*728	522*600*1285	85



# Biomedical Mobile Cooler

Car-use biomedical coolers, able to be powered by the cigar lighter port of the cars.



30L



80L



700L

## Features

- Microprocessor controller and digital display.
- Available input power is DC 12V/24V, AC 100V~242V, 50/60HZ.
- Audible and visual alarm system.
- Options: datalogger, racks and boxes.

## Specifications

Model	Temp.	Capacity		Cooling Type	Defrost	Voltage	Power	Compressor	Refrigerant	Dimensions (W*D*H) mm		Weight (KGS)
		(L)	(Cu. ft.)							Interior	Exterior	
MDF-25H30LC	-25~+30°C	30	1.06	Forced-Air	Manual	AC, DC	80W	CN Brand* 1	R134a	364*253*353	615*370*472	22
MDF-25H80LC	-25~+30°C	80	2.83	Forced-Air	Manual	AC, DC	100W	CN Brand* 1	R134a	547*378*370	937*565*581	47
MBC-4V700LC	4-22°C	700	24.72	Forced-Air	Auto	AC, DC	C: 350 W H: 200 W	CN Brand* 1	R134a	939*973*863	1080*1029*1080	162

## Optional Spare Parts

Datalogger, Chart recorder, Temperature printer, LN2/CO2 backup system, Cold Rack & Box, etc.



Datalogger



LN<sub>2</sub> Backup system



Cold Storage Rack & Box



Chart Recorder