Ultra-Low Temperature Freezer

SASTEC™
SASTEC LABORATORY EQUIPMENT

Medical & Laboratory cold storage system
Ultra-Low Temperature Freezer
Temperature -60/ -86°C
Capacity: 50~936L

Handle
Handle for easy operation, door lock for safety use.

MicrocomputerControl
Digital temperature display, ensure precise and stable running. USB port to read temperature and alarm conditions in recent 3 months.Able to be change to touch screen display.

USB & Remote Alarm Port
USB port make it easy to read and store temperature record, remote alarm port to connect remote alarm system.

3 Kinds of Optional Cooling System
1. Cascade system with refrigerant R404a and R507a, most widely used system, easy to repair.
2. Cascade system with refrigerant R290 and R170, green refrigerant.
3. One compressor with mixed refrigerant.Energy saving and better price.

Heavy Duty Castors
Castors with break, easy moving and stop.

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Up to 43°C ambient temperature, high efficient freezing system and good thermal insulation properties

Low noise designNoise≤50db

All 304 stainless steel inner door, with foaming layer and small handle.

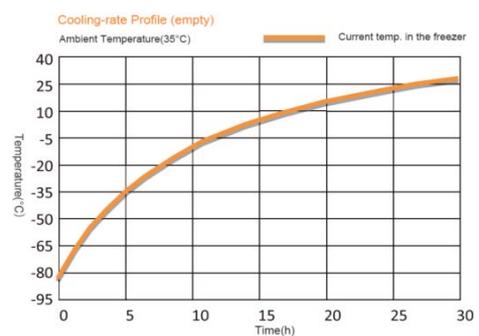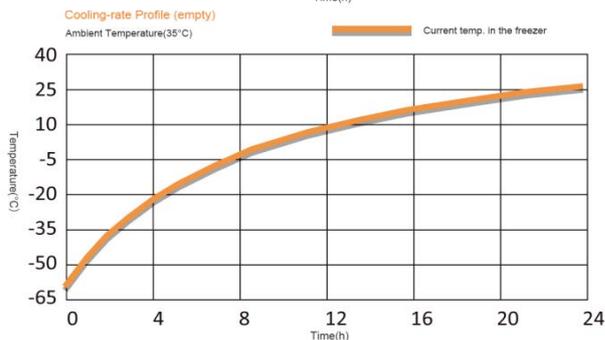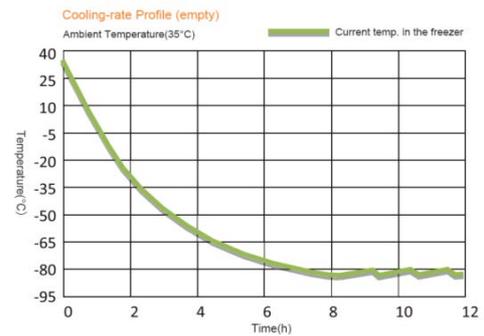4 layers door seal made of high quality silicone

ULT freezer is specially designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes, leucocytes and cutis. Applications can be found in blood banks, hospitals, epidemic prevention services, and research institutes, laboratories in electronic and chemical plants, biological engineering institutes and marine fishery companies.

Temperature profile for -60°C

Cooling-rate Profile (empty)
Ambient Temperature(35°C) — Current temp. in the freezer

Cooling-rate Profile (empty)
Ambient Temperature(35°C) — Current temp. in the freezer

Temperature profile for -86°C

Cooling-rate Profile (empty)
Ambient Temperature(35°C) — Current temp. in the freezer

Cooling-rate Profile (empty)
Ambient Temperature(35°C) — Current temp. in the freezer

Ultra-Low Temperature Freezer

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ST-MDF-86V50

Model	ST-MDF-86V50	Capacity(L)	50
External Size(mm)	540 X 620 X 1115	N.W./G.W.(kg)	75/95
Inner Size(mm)	361 X 429 X 406		
Package Size(mm)	690 X 760 X 1170	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	450	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Shelves	1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤49.5
Alarm System	High/low temperature, sensor failure		
Optional Accessories	Remote alarm system, cold storage racks & boxes		

ST-MDF-86V188E

Model	ST-MDF-86V188E	Capacity(L)	188
External Size(mm)	830 X 810 X 1607.5	N.W./G.W.(kg)	150/195.5
Inner Size(mm)	465 X 465 X 830		
Package Size(mm)	880 X 905 X 1820	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	600	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Shelves	2
Ambient Temp. (°C)	10-32	Noise(dBA)	≤51
Alarm System	High/low temperature, sensor failure, controller		
Optional Accessories	Cold storage racks & boxes, chart recorder		

ST-MDF-86V340E

Model	ST-MDF-86V340E	Capacity(L)	340
External Size(mm)	855 X 1006 X 1920	N.W./G.W.(kg)	181.5/234
Inner Size(mm)	488 X 600 X 1140		
Package Size(mm)	935 X 1070 X 2135	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1350	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Shelves	3
Ambient Temp. (°C)	10-38	Noise(dBA)	≤50
Alarm System	High/low temperature, sensor failure, door ajar		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86V340

Model	ST-MDF-86V340	Capacity(L)	340
External Size(mm)	854 X 1072 X 1907	N.W./G.W.(kg)	249.5/302
Inner Size(mm)	488 X 607 X 1140		
Package Size(mm)	935 X 1070 X 2135	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1350	Inner Material	304 Stainless steel
Setting Temp.(°C)	-60~-86	Shelves	3
Ambient Temp. (°C)	10-38	Noise(dBA)	≤50
Alarm System	High/low temperature, sensor failure, door ajar, power failure(72h), low battery		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86V588(VIP)

Model	ST-MDF-86V588	Capacity(L)	588
External Size(mm)	872 X 1192 X 1994.5	N.W./G.W.(kg)	249/310.5
Inner Size(mm)	606 X 738 X 1310		
Package Size(mm)	974 X 1118 X 2183	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	815	Inner Material	304 Stainless steel
Setting Temp.(°C)	-60~-86	Shelves	3
Ambient Temp. (°C)	10-32	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor failure, door ajar, power failure(72h), low battery		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86V688

Model	ST-MDF-86V688	Capacity(L)	688
External Size(mm)	1354 X 1072 X 1907	N.W./G.W.(kg)	367/446
Inner Size(mm)	990 X 607 X 1140		
Package Size(mm)	1475 X 1090 X 2145	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1540	Inner Material	304 Stainless steel
Setting Temp.(°C)	-60~-86	Shelves	3
Ambient Temp. (°C)	10-43	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor failure, door ajar, power failure(72h), low battery		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86V838(VIP)

Model	ST-MDF-86V838	Capacity(L)	688
External Size(mm)	1160 X 1172 X 1907	N.W./G.W.(kg)	314.5/391
Inner Size(mm)	894 X 718 X 1310		
Package Size(mm)	1212 X 1098 X 2185	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1540	Inner Material	304 Stainless steel
Setting Temp.(°C)	-60~-86	Shelves	3
Ambient Temp. (°C)	10-43	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor failure, door ajar, power failure(72h), low battery		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86V936

Model	ST-MDF-86V936	Capacity(L)	936
External Size(mm)	1240 X 1000 X 2000	N.W./G.W.(kg)	340.5/416.5
Inner Size(mm)	1000 X 700 X 1335		
Package Size(mm)	1350 X 1135 X 2140	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1600	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Shelves	3
Ambient Temp. (°C)	10-32	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor failure, door ajar, power failure(72h), low battery		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-86H105

Model	ST-MDF-86H105	Capacity(L)	105
External Size(mm)	680 X 580 X 935	N.W./G.W.(kg)	62/69.5
Inner Size(mm)	480 X 380 X 665		
Package Size(mm)	770 X 705 X 1090	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	280	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Compressor/QTY	Brand/1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤52
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes		

ST-MDF-86H485

Model	ST-MDF-86H485	Capacity(L)	485
External Size(mm)	1695 X 805 X 955	N.W./G.W.(kg)	124/138.5
Inner Size(mm)	1455 X 525 X 665		
Package Size(mm)	1775 X 900 X 1050	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	485	Inner Material	304 Stainless steel
Setting Temp.(°C)	-40~-86	Compressor/QTY	Brand/1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤54.4
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes		

ST-MDF-60V50

Model	ST-MDF-60V50	Capacity(L)	50
External Size(mm)	540 X 620 X 1115	N.W./G.W.(kg)	75/95
Inner Size(mm)	361 X 429 X 406		
Package Size(mm)	690 X 760 X 1170	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	420	Inner Material	304 Stainless steel
Setting Temp.(°C)	-25~-60	Shelves	1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤49.5
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

ST-MDF-60V340

Model	ST-MDF-60V340	Capacity(L)	340
External Size(mm)	854 X 1072 X 1907	N.W./G.W.(kg)	249.5/302
Inner Size(mm)	488 X 607 X 1140		
Package Size(mm)	935 X 1070 X 2135	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	1200	Inner Material	304 Stainless steel
Setting Temp.(°C)	-25~-60	Shelves	3
Ambient Temp. (°C)	10-43	Noise(dBA)	≤50
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes, chart recorder		

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ST-MDF-60H105

Model	ST-MDF-60H105	Capacity(L)	105
External Size(mm)	680 X 580 X 935	N.W./G.W.(kg)	62/69.5
Inner Size(mm)	480 X 380 X 665		
Package Size(mm)	770 X 705 X 1090	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	280	Inner Material	304 Stainless steel
Setting Temp.(°C)	-25~-60	Compressor/QTY	Brand/1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes		

ST-MDF-60H485

Model	ST-MDF-60H485	Capacity(L)	485
External Size(mm)	1695 X 805 X 955	N.W./G.W.(kg)	124/138.5
Inner Size(mm)	1455 X 525 X 665		
Package Size(mm)	1775 X 900 X 1050	Insulation	PURF
Voltage	220V; 50/60Hz	External Material	Color sprayed steel
Power(W)	485	Inner Material	304 Stainless steel
Setting Temp.(°C)	-25~-60	Compressor/QTY	Brand/1
Ambient Temp. (°C)	10-32	Noise(dBA)	≤53
Alarm System	High/low temperature, sensor		
Optional Accessories	Remote alarm system, cold storage racks & boxes		