

Solutions for Bio-Medical

Cold Storage • Cryogenic Preservation • Biosafety Cabinet



-150°C, Cryogenic Freezer



Model	Temperature°C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MDF-150C118	-120~-150	118	500×400×560	1270×780×965	165
MDF-150C208	-120~-150	258	780×500×660	1510×885×1095	280

-86°C, Ultra Low Temperature Freezer, Upright



Model	Temperature, °C	Cooling System	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MDF-86U108	-40~-86	Single compressor	88	320×450×610	794×676×812	85
MDF-86U340T	-40~-86	Cascade cooling	360	460×600×1310	715×854×1976	230
MDF-86U458T	-40~-86	Cascade cooling	470	600×600×1310	885×854×1976	252
MDF-86U588T	-40~-86	Cascade cooling	580	740×600×1310	995×854×1976	272
MDF-86U728T	-40~-86	Cascade cooling	730	740×755×1310	995×952×1976	297
MDF-86U340D	-40~-86	Independent dual cooling	360	460×600×1310	715×854×1976	220
MDF-86U458D	-40~-86	Independent dual cooling	470	600×600×1310	855×854×1976	250
MDF-86U588D	-40~-86	Independent dual cooling	580	740×600×1310	995×854×1976	280
MDF-86U728D	-40~-86	Independent dual cooling	730	740×755×1310	995×952×1976	310
MDF-86U988D	-40~-86	Independent dual cooling	988	880×857×1310	1134×1115×1976	350
MDF-86U579	-40~-86	Cascade cooling, inverter compressor	580	740×600×1310	995×854×1976	272
MDF-86U729	-40~-86	Cascade cooling, inverter compressor	730	740×755×1310	995×952×1976	297
MDF-86U969	-40~-86	Cascade cooling, inverter compressor	988	880×857×1310	1134×1115×1976	362

-86°C, Ultra Low Temperature Freezer, Chest



Model	Temperature, °C	Cooling System	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MDF-86C118	-40~-86	Single compressor	130	630×440×470	850×740×1023	98
MDF-86C458	-40~-86	Cascade cooling	495	1310×600×630	1930×780×900	242
MDF-86C728	-40~-86	Cascade cooling	746	1310×740×770	1930×997×1035	275

-40°C, Deep Freezer



Model	Temperature, °C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MDF-40U90	-20~-40	90	500*485*532	700*669*854	54
MDF-40U270	-20~-40	270	500*460*1235	700*640*1792	90
MDF-40U450	-20~-40	450	650*570*627	810*735*1960	144

-25°C, Laboratory Freezer



Model	Temperature, °C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MDF-25U60	-10~-25	65	410×450×420	510×560×670	30.5
MDF-25U150	-10~-25	120	500×450×570	600×560×820	41
MDF-25U270	-10~-25	280	500×450×1290	600×560×1540	61
MDF-25U400	-10~-25	380	500×510×1550	600×650×1805	74
MDF-25U600	-10~-25	550	645×530×1645	775×750×1905	94.5
MDF-25U600A	-10~-25	600	660×690×1400	780×827×1945	158
MDF-25U1100A	-10~-25	1100	1180×690×1400	1300×827×1945	228

Combined 2~8°C refrigerator & -40°C freezer



Model	Ref Capacity, L	Freezer Capacity, L	External Dimension, mm	Net Weight, kg
MRF-288A	188	100	700×640×1845	140
MRF-450A	315	200	910×740×1972	186

2~8°C, Pharmacy Refrigerator



Model	Temperature, °C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MPR-68	2~8	65	410×420×420	510×560×670	33.5
MPR-136	2~8	136	500×510×570	600×650×820	53
MPR-260	2~8	270	500×450×1290	600×560×1540	71
MPR-360	2~8	375	500×510×1550	600×650×1805	82.5
MPR-525	2~8	520	645×510×1640	775×700×1905	121
MPR-656	2~8	638	660×690×1400	780×827×1945	144
MPR-1006	2~8	1140	1180×690×1400	1300×827×1945	223
MPR-1410	2~8	1410	1460×690×1400	1580×827×1945	238

4°C, Blood Bank Refrigerator



Model	Temperature, °C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MBR-658	4	638	660×690×1400	780×827×1945	174
MBR-1008	4	1140	1180×690×1400	1300×827×1945	277
MBR-1408	4	1410	1460×690×1400	1580×827×1945	298

Portable ULT freezer, DC/AC power supply, Stirling technology, backup battery



Model	Temperature, °C	Capacity, liter	Internal Dimension, mm	External Dimension, mm	Net Weight, kg
MMF-1	-86~4	1	150×134×54.5	270×270×450	13.5
MMF-2	-80~30	15	233×292×155	615×462×625	23

Freezer backup system



Model	Description / Features
BS-I	CO2 backup system, temperature display & adjustable, ASCO brand cryogenic electromagnetic valve
BS-II	LN2 backup system, temperature display & adjustable, ASCO brand cryogenic electromagnetic valve

CryoMatrix Series, Stainless Steel Large Capacity Vapor Cryogenic Freezer with Auto-Fill



Model	LN2 Capacity, L	2ml Vial Capacity	Neck Opening, mm	Net Weight, kg	Auto-Fill	Rack
CryoMatrix 15K	370	15,600	320	258	Yes	Optional
CryoMatrix 19K	460	19,500	320	283	Yes	Optional
CryoMatrix 28K	550	26,000	445	310	Yes	Optional
CryoMatrix 39K	800	39,200	445	355	Yes	Optional
CryoMatrix 55K	1000	55,500	500	580	Yes	Optional
CryoMatrix 94K	1800	94,500	635	805	Yes	Optional

CryoLite Series, Aluminum Compact Cryogenic Freezer with Auto-Fill



Model	LN2 Capacity, L	Neck Opening, mm	Number of Rack	2ml Vial Capacity	Net Weight, kg	Auto-Fill
CryoLite 24S	65	216	6	2400	45	Yes
CryoLite 36S	95	216	6	3600	49	Yes
CryoLite 48S	145	216	6	4800	55	Yes
CryoLite 60S	175	216	6	6000	63	Yes

CryoMaster Series, Aluminum Dewar, with Racks & Boxes



Model	LN2 Capacity, L	Neck Opening, mm	Number of Rack	2ml Vial Capacity	Net Weight, kg
CryoMaster 750	35	216	6	750	18.7
CryoMaster 900	50	216	6	900	20.3
CryoMaster 2400	65	216	6	2400	41.6
CryoMaster 3000	95	216	6	3000	43.8
CryoMaster 3600	115	216	6	3600	51.4
CryoMaster 4800	145	216	6	4800	51.8
CryoMaster 6000	175	216	6	6000	55.7

CryoMajor Series, Aluminum Dewar, with Canisters



Model	LN2 Capacity, L	Neck Opening, mm	Number of Canister	Canister Diameter, mm	Canister Height, mm	Net Weight, kg
CryoMajor 2/35	2	35	3	25	120	2.6
CryoMajor 3/50	3	50	6	38	120	3.1
CryoMajor 6/50	6	50	6	38	120	4.8
CryoMajor 10/50	10	50	6	38	120	5.9
CryoMajor 10/80	10	80	6	63	120	5.9
CryoMajor 13/50L	13	50	6	38	276	6.3
CryoMajor 15/50	15	50	6	38	120	8.5
CryoMajor 15/80	15	80	6	63	120	8.6
CryoMajor 20/50L	20	50	6	38	276	9.5
CryoMajor 20/80L	20	80	6	63	276	9.5
CryoMajor 25/50L	25	50	6	38	276	10.7
CryoMajor 25/80L	25	80	6	63	276	10.9
CryoMajor 30/50L	31.5	50	6	38	276	12.9
CryoMajor 30/80L	31.5	80	6	63	276	13.1
CryoMajor 30/125L	31.5	125	6	97	276	12.9
CryoMajor 35/50L	35.5	50	6	38	276	14.2
CryoMajor 35/80L	35.5	50	6	38	276	14.2
CryoMajor 35/125L	35.5	125	6	97	276	14.2
CryoMajor 47/127L	47	127	6	97	276	15
CryoMajor 47/127TL	47	127	10	72	276	15
CryoMajor 50B/50L	50	50	6	38	276	15

CryoTrans Series, for liquid nitrogen storage, no canisters or racks



Model	LN2 Capacity, L	Neck Opening, mm	Overall height, mm	Outer diameter, mm	Net Weight, kg
CryoTrans 6	6	50	482	300	4.8
CryoTrans 10	10	50	552	300	5.9
CryoTrans 20	20	50	672	394	9.5
CryoTrans 30	30	50	706	462	12.9
CryoTrans 50	50	50	748	462	14.6

CryoCarrier Series, dry shipper/ vapor shipper



Model	Description
CryoCarrier 2	1.5L. Including 1 piece of Ø25 120mm height canister
CryoCarrier 3	3L. Including 1 piece of Ø38 120mm height canister
CryoCarrier 6	6L. Including 1 piece of Ø63 120mm height canister
CryoCarrier 10	10L. Including 1 piece of Ø97 120mm height canister
CryoCarrier 25	25L. Including 1 piece of Ø195 276mm height canister

For cryogenic boxes:

Model	Description
CryoCarrier 10R	10L. Including 1 piece of 4-layer rack, using 25-place box
CryoCarrier 25R	25L. Including 1 piece of 5-layer rack, using 81/100-place box

For blood bags:

Model	Description
CryoCarrier 4B	4L. Loading 4 pcs of 50ml blood bags
CryoCarrier 6B	6L. Loading 2 pcs of 250ml blood bags
CryoCarrier 25B	25L. Loading 10 pcs of 250ml blood bags

Protection trolley case for CryoCarrier

Model	Description
DSC-4	Trolley case for 3L, 4L CryoCarrier dry shippers
DSC-6	Trolley case for 6L CryoCarrier dry shippers
DSC-10	Trolley case for 10L CryoCarrier dry shippers
DSC-25	Trolley case for 25L CryoCarrier dry shippers

CryoCenter Series, self-pressurized LN2 supplement



Model	LN2 Capacity, L	Caster	Hose	Level Meter	Pressure Stabilizer
CryoCenter 30	30	Yes	Yes	Float type	No
CryoCenter 50	50	Yes	Yes	Float type	No
CryoCenter 100	100	Yes	Yes	Float type	No
CryoCenter 200	200	Yes	Yes	Float type	No
CryoCenter 240	240	Yes	Yes	Float type	No
CryoCenter 300	300	Yes	Yes	Float type	No
CryoCenter 500	500	Yes	Yes	Float type	No
CryoCenter 200S	200	Yes	Yes	Electronic digital type	Yes
CryoCenter 240S	240	Yes	Yes	Electronic digital type	Yes
CryoCenter 300S	300	Yes	Yes	Electronic digital type	Yes
CryoCenter 500S	500	Yes	Yes	Electronic digital type	Yes

Controlled Rate Freezer



Model	Capacity, L	Temperature range	Freezing Rate	Interior Dimension, W*D*H	Exterior Dimension, W*D*H	Net Weight
CryoVita 18	18	-180°C~+60°C	0.1 ~ 50°C/min	180*305*330mm	810*540*790mm	64 kg
CryoVita 34	34	-180°C~+60°C	0.1 ~ 50°C/min	330*305*330mm	960*540*790mm	75 kg
CryoVita 49	49	-180°C~+60°C	0.1 ~ 50°C/min	485*305*330mm	1110*540*790mm	83 kg

CryoBlaster Series, Cryogenic Blast Freezer



Model	Capacity, L	Temperature range	Cooling Rate, °C/min	Door opening size (WxH)	Dimensions (WxDxH)
CryoBlaster 4800	4800	-190 °C ~ ambient temperature	1~20 adjustable	1250x2050mm	2195x1800x2300mm

CryoFiller Series, Automatic Liquid Nitrogen Doser



Model	Application	Maximum Discrete Dosing Speed	Continuous Stream Dosing Speed	Dose Duration	Accuracy by Dose Weight	LN2 per Dose
CryoFiller-L	Low speed, for beverage & water	500 CPM	2000 CPM	15 ~ 1000 ms	±5%	0.01-14 g
CryoFiller-S	Low speed, for edible oil	200 CPM	2000 CPM	15 ~ 1000 ms	±5%	0.01-14 g
CryoFiller-H	High speed	800 CPM	2000 CPM	15 ~ 1000 ms	±5%	0.01-14 g

Biological Safety Cabinet



Biological Safety Cabinet, Class III, 100% protection from biohazard

Model	Nominal Size	Work Zone Dimension (W x D x H)	External Dimension (W x D x H)	Number of glove port	Net Weight
BSC-1000III	3 feet	1000*600*690mm	1470*790*2100mm	2	350kg
BSC-1300III	4 feet	1300*600*690mm	1770*790*2100mm	2	420kg
BSC-1600III	5 feet	1600*600*690mm	2070*790*2100mm	3	490kg
BSC-1800III	6 feet	1800*600*690mm	2270*790*2100mm	4	540kg

Cytotoxic Safety Cabinet

Model	Nominal Size	Work Zone Dimension	External Dimension	Avarage Inflow Velocity	Average Downflow Velocity	Net Weight
BSC-1004IIA2-C	3 feet	1000x630x600mm	1200x820x2050mm	≥0.53m/s	≥0.30m/s	320kg
BSC-1304IIA2-C	4 feet	1300x630x600mm	1500x820x2050mm	≥0.53m/s	≥0.30m/s	380kg
BSC-1604IIA2-C	5 feet	1600x630x600mm	1800x820x2050mm	≥0.53m/s	≥0.30m/s	460kg

Biological Safety Cabinet, Class II, Type A2, CE certification



Model	Nominal Size	Work Zone Dimension	External Dimension	Avarage Inflow Velocity	Average Downflow Velocity	Net Weight
BSC-654IIA2	2 feet	650x562x540mm	750x700x1200mm	0.53m/s	0.33m/s	110kg
BSC-1004IIA2	3 feet	1004*630*630mm	1200*795*2130mm	0.55m/s	0.35m/s	260kg
BSC-1304IIA2	4 feet	1304*630*630mm	1500*795*2130mm	0.55m/s	0.35m/s	300kg
BSC-1604IIA2	5 feet	1604*630*630mm	1800*795*2130mm	0.55m/s	0.35m/s	360kg
BSC-1804IIA2	6 feet	1804*630*630mm	2000*795*2130mm	0.53m/s	0.33m/s	400kg

Biological Safety Cabinet, Class II, Type A2, EN12469 Certification



Model	Nominal Size	Work Zone Dimension, mm	External Dimension, mm	Net Weight, kg	Sash Window	Side Wall
BSC-1003IIA2	3 feet	970*600*620	1200*790*2050	260	Manual	SUS304
BSC-1303IIA2	4 feet	1270*600*620	1500*790*2050	300	Manual	SUS304
BSC-1603IIA2	6 feet	1570*600*620	1800*790*2050	350	Manual	SUS304
BSC-1003IIA2-E	3 feet	970*600*620	1200*790*2050	260	Electric Motor	SUS304
BSC-1303IIA2-E	4 feet	1270*600*620	1500*790*2050	300	Electric Motor	SUS304
BSC-1603IIA2-E	6 feet	1570*600*620	1800*790*2050	350	Electric Motor	SUS304
BSC-1003IIA2-S	3 feet	970*600*620	1200*790*2050	260	Manual	Glass
BSC-1303IIA2-S	4 feet	1270*600*620	1500*790*2050	300	Manual	Glass
BSC-1603IIA2-S	6 feet	1570*600*620	1800*790*2050	350	Manual	Glass
BSC-1003IIA2-SE	3 feet	970*600*620	1200*790*2050	260	Electric Motor	Glass
BSC-1303IIA2-SE	4 feet	1270*600*620	1500*790*2050	300	Electric Motor	Glass
BSC-1603IIA2-SE	6 feet	1570*600*620	1800*790*2050	350	Electric Motor	Glass

Biological Safety Cabinet, Class II, Type A2, NSF49 Certification



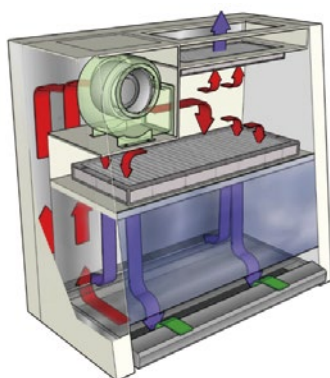
Model	Nominal Size	Work Zone Dimension	External Dimension	Average Inflow Velocity	Average Downflow Velocity	Net Weight
BSC-1301IIA2	4 feet	1270*600*620mm	1500*790*2050mm	0.54m/s	0.35m/s	300kg
BSC-1302IIA2	4 feet	1270*600*620mm	1500*790*2050mm	0.54m/s	0.35m/s	300kg

Biological Safety Cabinet, Class II Type B2, CE certification



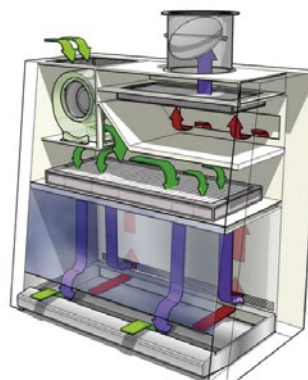
Model	Nominal Size	Work Zone Dimension	External Dimension	Average Inflow Velocity	Average Downflow Velocity	Net Weight
BSC-1004IIB2	3 feet	1004*630*630mm	1200*795*2050mm	0.55m/s	0.35m/s	330kg
BSC-1304IIB2	4 feet	1304*630*630mm	1500*795*2050mm	0.55m/s	0.35m/s	380kg
BSC-1604IIB2	5 feet	1604*630*630mm	1500*795*2050mm	0.55m/s	0.35m/s	430kg
BSC-1804IIB2	6 feet	1804*630*630mm	2000*795*2050mm	0.55m/s	0.35m/s	430kg

Airflow Pattern



Class II, Type A2

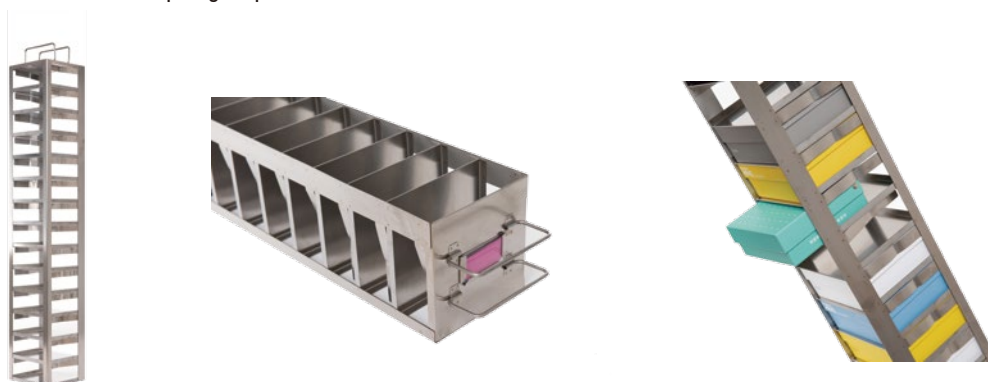
- H14-filtered air
- Unfiltered / potentially contaminated air
- Room air / Inflow air



Class II, Type B2

- H14-filtered air
- Unfiltered / potentially contaminated air
- Room air / Inflow air

Vertical Racks with Spring Clip



Sliding Drawer Freezer Racks



Side Access Freezer (Frame Type) Racks

Racks for Antech Freezers

Model	Rack type (boxes each layer x layers)	Rack model		Racks per freezer	2" box storage capacity	Maximum 2ml vial capacity
		Sliding drawer	Side access			
MDF-86U108	3x5	VFD-352	VFF-352	4	60	6,000
MDF-86U340T/D	4x5	VFD-452	VFF-452	12	240	24,000
MDF-86U458T/D	4x5	VFD-452	VFF-452	16	320	32,000
MDF-86U588T/D/579	4x5	VFD-452	VFF-452	20	400	40,000
MDF-86U728T/D/729	5x5	VFD-552	VFF-552	20	500	50,000
MDF-86U988D/969	6x5	VFD-652	VFF-652	24	720	72,000
MDF-86C118	1x8	N/A	CFC-8-2	12	96	9,600
MDF-86C458	1x10	N/A	CFC-10-2	36	360	36,000
MDF-86C728	1x13	N/A	CFC-13-2	45	585	58,500
MDF-150C118	1x4	N/A	CFH-4-2	20	80	8,000
MDF-150C208	1x4	N/A	CFH-4-2	43	172	17,200

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