

COLD CHAIN PRODUCT


Lab Freezers and Refrigerators



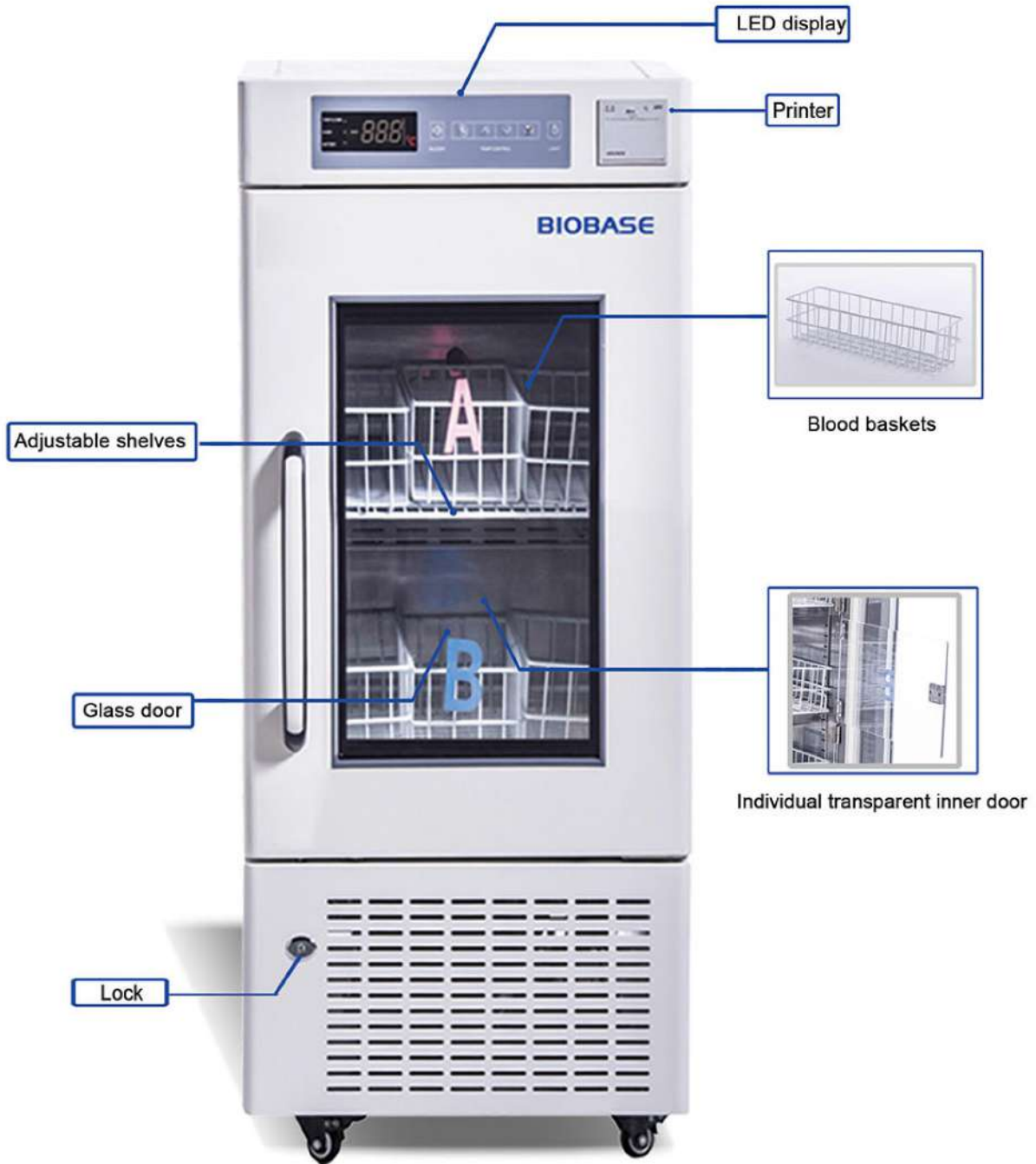
KGC

EMPOWERING FUTURE
THROUGH RESEARCH & INNOVATION

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Blood Bank Refrigerator(4±1°C)



Blood Bank Refrigerator

Advantage

1. Multiple sensors design: make sure the precise monitoring and programming.
2. Double layer transparent glass door, easy to observe, also keep a better cooling temperature.
3. Forced air refrigeration system, ensure inner temperature constant and uniform.
4. Adjustable shelves, improve space utilization; blood storage baskets can be classified.
5. Individual transparent inner door, effectively reduce cool air loss when opening the door.



120L



160L



210L



250L

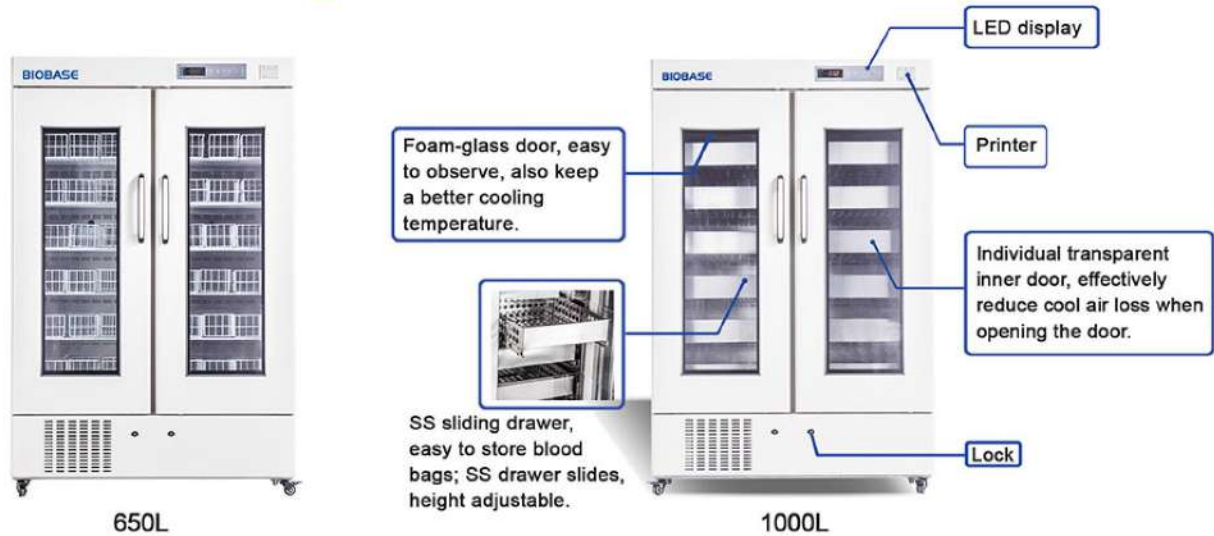


310L

Technical Parameters

Model	BBR-4V120	BBR-4V160	BBR-4V210	BBR-4V250	BBR-4V310
Capacity	120L	160L	210L	250L	310L
Temp. Range	4±1°C				
Temp. Accuracy	0.1°C				
Control System	Microprocessor control				
Display	LED display				
Alarm	Audio and visual alarm for: High or low temperature, Sensor & system failure; Door ajar; Power failure, Low battery alarm for BBR-4V120/160/210; Battery off alarm for BBR-4V250/310				
Refrigeration Type	Forced air refrigeration system				
Refrigerant	R134a, CFC-Free				
Compressor	International famous compressor				
Condenser & Evaporator	High efficiency air-cooled condenser, made of copper				
Defrost	Auto defrost				
Construction	Unibody Design, Mono-assembly foaming (Rigid polyurethane insulation material)				
Material	Internal Material	Stainless steel			
	External Material	Cold-rolled steel with anti-bacteria powder coating			
Door	Double layer transparent glass door with lock, Heating film preventing frosting, Sealing joint strip with magnetic force. Transparent plastic inner door				
Consumption	160W	280W	200W	380W	380W
Power Supply	AC110V/220V±10%, 50/60Hz	AC220V±10%, 50/60Hz	AC110V/220V±10%, 50/60Hz		
Casters	4 casters				
Adjustable Shelves	2pcs	4pcs	4pcs	4pcs	5pcs
Baskets	6pcs	12pcs	12pcs	12pcs	15pcs
Blood Bags (450ml)	66pcs	80pcs	132pcs	120pcs	150pcs
Standard Accessory	Temperature printer, LED lamp, probe access port, door key				
Optional Accessory	Temperature recorder			Temperature recorder, Remote alarm	
External Size(W*D*H) mm	522*635*1030	600*620*1600	522*635*1530	630*666*1658	630*666*1886
Package Size(W*D*H)mm	580*690*1200	700*660*1755	580*690*1700	760*755*1870	760*755*2100
Gross Weight	95kg	113kg	120kg	145kg	167kg

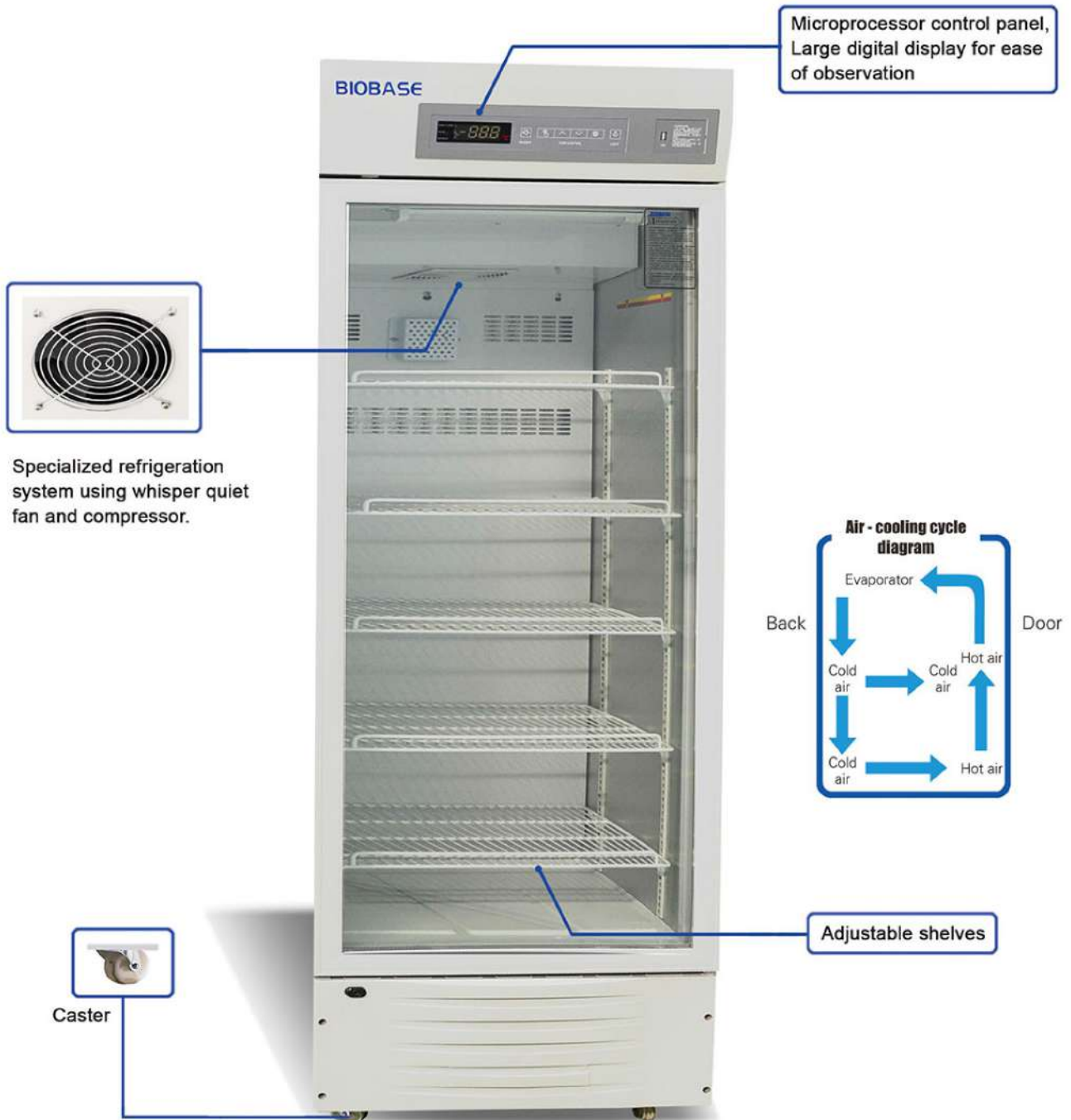
Blood Bank Refrigerator



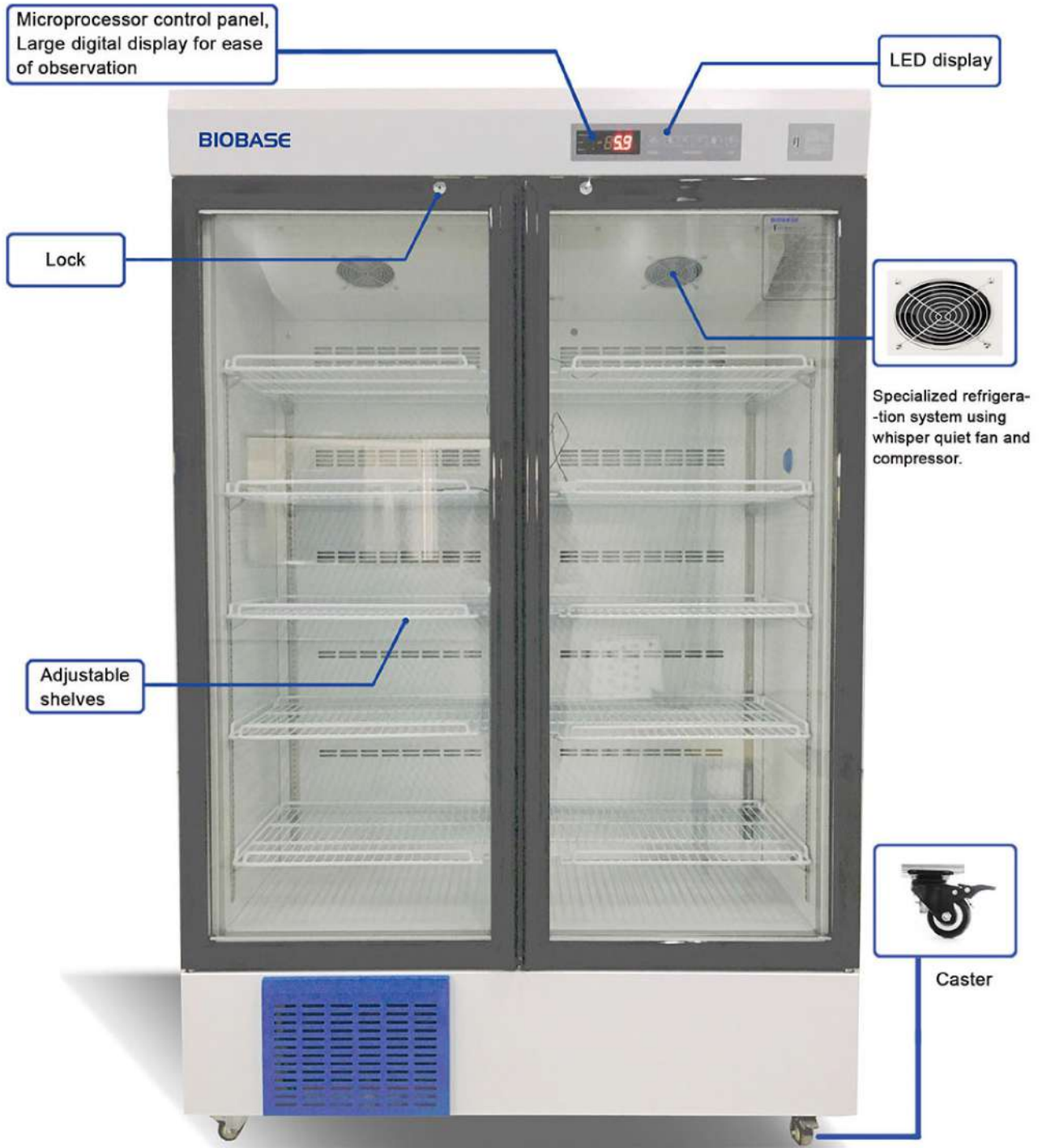
Technical Parameters

Model	BBR-4V650	BBR-4V1000
Capacity	650L	1000L
Temp. Range	4±1°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor control	
Display	LED display	
Alarm	Audio and visual alarm for: High or low temperature, Sensor & system failure; Door ajar, Power failure, Low battery	
Refrigeration Type	Forced air refrigeration system	
Refrigerant	R134a, CFC-Free	
Defrost	Auto defrost	
Construction	Unibody Design, Mono-assembly foaming (Rigid polyurethane insulation material)	
Material	Internal Material	Stainless steel
	External Material	Cold-rolled steel with anti-bacteria powder coating
Door	Double layer transparent glass door with lock, Heating film preventing frosting, Sealing joint strip with magnetic force. Transparent plastic inner door	
Drawers/Shelves	Adjustable shelves	SS drawers
Casters	4 casters	4 casters
Consumption	364W	513W
Power Supply	AC110V/220V±10%, 50/60Hz	
Blood Bags (450ml)	360 pcs	576 pcs
Standard Accessory	Temperature printer, 12 shelves, 36 baskets, LED lamp, probe access port, door key	Temperature printer, 12 drawers, LED lamp, probe access port, door key
Optional Accessory	Temperature recorder	
External Size(W*D*H) mm	1220*648*1885	1220*878*1885
Package Size(W*D*H) mm	1300*735*2110	1300*960*2130
Gross Weight	257kg	335kg

Laboratory Refrigerator(2-8°C)



Laboratory Refrigerator(2-8°C)



Laboratory Refrigerator



Technical Parameters

Model	BPR-5V160	BPR-5V250	BPR-5V310	BPR-5V588	BPR-5V1000	
External Size(W*D*H) mm	500*550*1300	580*575*1810	620*575*1980	1220*630*1885	1220*860*1885	
Capacity	160L	250L	310L	588L	1000L	
Temp. Range	2°C~8°C					
Temp. Accuracy	0.1°C					
Control System	Microprocessor Control, Large Screen LED Display					
Alarm	Audible and visual alarm for: High and low temperature, Power failure alarm, Sensor failure, Door ajar					
Refrigeration Type	Forced air refrigeration system					
Refrigerant	R600a, CFC Free			R134a, CFC Free		
Condenser & Evaporator	Bundy tube condenser					
Defrost	Auto defrost					
Construction	Structure	Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation material)				
	Internal Material	Embossed aluminum sheet			Cold-rolled steel coated with anti-bacteria powder	
	External Material	Cold-rolled steel coated with anti-bacteria powder				
Shelves	4 pcs	4pcs	5 pcs	10 pcs		
Door	Glass door with electric heating					
Consumption	136W	170W	180W	560W		
Power Supply	AC110/220V±10%, 50/60Hz					
Standard Accessories	LED Lamp, shelves, door keys, USB port, probe access port(BPR-5V588 & BPR-5V1000)					
Optional Accessory	Temperature recorder					
Package Size(W*D*H) mm	590*595*1380	670*650*1870	700*650*2030	1340*750*2100	1340*980*2100	
Gross Weight	51kg	68kg	84kg	248kg	280kg	

Laboratory Refrigerator



BPR-5V50(G)



BPR-5V100(G)

Technical Parameters

Model	BPR-5V50(G)		BPR-5V100(G)	
External Size(W*D*H)mm	495*548*683		495*548*934	
Internal Size(W*D*H)mm	415*405*455		415*405*706	
Capacity	50L		100L	
Temperature Range	2-8℃			
Temperature Accuracy	0.1℃			
Control System	Microprocessor Control			
Alarm	Audible and visual alarm for: High and low temperature,Door Ajar			
Refrigeration Type	Forced air refrigeration system			
Refrigerant	R600a			
Climate Type	N, SN			
Glass Door	Toughened with electric heating function,no condensation			
Construction	Constructure	Unibody design& High Pressure and High Density Cyclopentane Foaming		
	Internal material	Cold-rolled steel coated with anti-bacteria powder		
	External material	Cold-rolled steel coated with anti-bacteria powder		
Consumption	95W		100W	
Power Supply	AC220V±10%, 50/60Hz; AC110V±10%, 50/60Hz			
Shelves	2pcs, cold drawn steel wire impregnated shelf		3 pcs,cold drawn steel wire impregnated shelf	
Door Lock	1 pc			
Accessory	Optional: Probe Access Port, Remote Alarm;		Standard: USB Port	
Package Size(W*D*H)mm	560*668*858		560*668*1109	
Gross Weight(kg)	49		61	

Laboratory Refrigerator



260L



360L

Technical Parameters

Model	BPR-5V260	BPR-5V360
External Size(W*D*H) mm	540*635*1900	660*655*1980
Capacity	260L	360L
Temp. Range	2°C~8°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor Control, Large Screen LED Display	
Alarm	Audible and visual alarm for: High and low temperature, System & sensor failure, Door ajar, Power failure alarm, Low backup battery alarm.	
Refrigeration Type	Forced air refrigeration system	
Refrigerant	R134a, CFC Free	
Condenser & Evaporator	Bundy tube condenser	
Defrost	Frostless design	
Construction	Structure	Unibody design & mono-assembly foaming (Rigid polyurethane insulation material)
	Internal material	HIPS engineering plastics, abrasion and acid resistant
	External material	Cold-rolled steel coated with anti-bacteria powder
Shelves	Adjustable shelves made of high quality steel wire	
	4 pcs	5 pcs
Consumption	200W	350W
Power Supply	AC220V±10%, 50/60Hz	
Standard Accessory	LED lamp & shelves, USB, probe access port, door keys	
Package Size(W*D*H) mm	588*664*2027	708*720*2132
Gross Weight(kg)	87	116

Laboratory Refrigerator



650L



1500L

Technical Parameters

Model	BPR-5V650	BPR-5V1500
External Size(W*D*H) mm	1220*642*1885	1800*748*1965
Capacity	656L	1500L
Temp. Range	2~8°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor Control & Large Screen LED Display	
Alarm	Audio and visual alarm for: High and low temperature, Thermostat fault, power failure(only for BPR-5V650), Door ajar	
Refrigeration Type	Forced air refrigeration system	
Refrigerant	R600a, CFC Free	R134a, CFC Free
Condenser&Evaporator	High efficiency air-cooled condenser, made of copper	
Defrost	Auto defrost	
Construction	Structure	Unibody design & Mono-assembly foaming (rigid polyurethane insulation material)
	Internal Material	Cold-rolled steel coated with anti-bacteria powder SS304
	External Material	Cold-rolled steel coated with anti-bacteria powder SS304
Shelves	Adjustable shelves made of high quality steel wire	
	10 pcs	12 pcs
Consumption	310W	830W
Power Supply	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz
Standard Accessory	LED lamp, Shelves, Door keys, Testing hole, Battery	
Package Size(W*D*H) mm	1290*695*1940	1940*880*2035
Gross Weight	188kg	190kg

-25°C Freezer



BDF-25H358



BDF-25H508

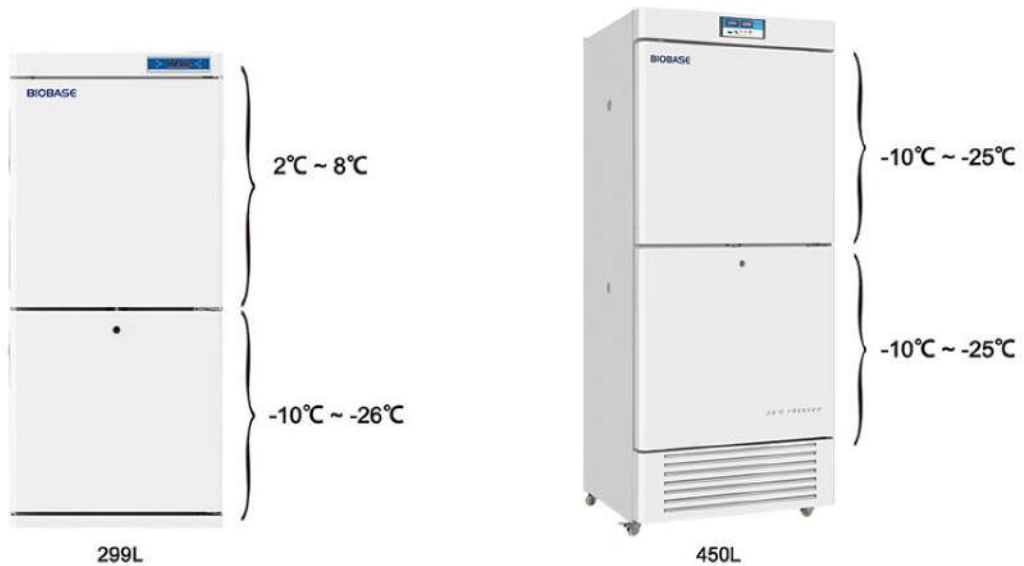
Features

1. Digital temperature display.
2. The safety lock can prevent random opening.
3. Baskets made of steel wire are convenient to store articles.
4. Round corner design of doors and the body provides luxury and elegance.
5. Delayed start and safe stop interval between restart and being terminated, ensure reliable running.

Technical Parameters

Model	BDF-25H358	BDF-25H508
External Size(W*D*H) mm	1350*735*880	1650*735*880
Capacity	358L	508L
Temp. Range	-10°C~-25°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor control&LED display	
Alarm	High or low temperature alarm, Temperature sensor failure alarm, over range alarm.	
Refrigeration Type	Direct refrigeration	
Refrigerant	R290, CFC free	
Condenser&Evaporator	Internal-mounted condenser and coil type evaporator	
Construction	Structure	Whole foaming, freon cyclopentane/isopentane high density polyurethane foam
	Internal Material	Cold-rolled steel coated with anti-bacteria powder
	External Material	Cold-rolled steel coated with anti-bacteria powder
Basket	2pcs	
Consumption	104W	203W
Power Supply	AC110/220V±10% 50/60Hz	
Package Size(W*D*H)mm	1420*780*945	1705*780*945
Gross Weight	69kg	95kg

-25°C Freezer



Technical Parameters

Model	BDF-25V260	BDF-25V450
External Size(W*D*H) mm	700*640*1826	810*735*1960
Capacity	Upper refrigerator: 186L Down freezer: 113L	Upper freezer: 225L Down freezer: 225L
Type	Vertical	
Temp. Range	Upper: 2°C~8°C Down: -10°C~-26°C	Upper: -10°C~-25°C Down: -10°C~-25°C
Temp. Accuracy	Refrigerator: 0.1°C; Freezer: 1°C	0.1°C
Control System	Microprocessor control	
Alarm	Sensor failure alarm; Open-door alarm(only for BDF-25V450); High or low temperature alarm	
Refrigeration Type	Direct refrigeration	
Refrigerant	R600a, CFC free	
Condenser&Evaporator	Double direct cool condensers	High efficiency air-cooled condenser
Construction	Structure	Unibody design; High density polyurethane foam door
	Internal Material	Al board with anti-bacterial powder
	External Material	Cold-rolled steel coated with anti-bacterial powder
Shelf/Drawer	Upper: 3 shelves Down: 3 ABS drawers	Upper: 6 plastic drawers Down: 6 plastic drawers
Consumption	302W	206W
Power Supply	AC220V±10%; 50/60Hz; 110V60Hz	
Package Size(W*D*H) mm	778*720*1910	914*839*2046
Gross Weight	95kg	140.5kg



268L



328L

Technical Parameters

Model	BDF-25V268	BDF-25V328
External Size(W*D*H) mm	673*676*1630	673*676*1886
Capacity	268L	328L
Type	Vertical	
Temp. Range	-10°C~-25°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor Control & LED Display	
Alarm	High and low temperature; System & sensor failure; Door ajar; Power failure alarm; Thermostat alarm	
Refrigeration Type	Direct Refrigeration	
Refrigerant	R290, CFC free	
Compressor	International famous compressor	
Condenser&Evaporator	High efficiency air-cooled condenser, made of copper	
Construction	Structure	Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation material)
	Internal Material	Cold-rolled steel coated with anti-bacteria powder for BDF-25V268 and BDF-25V328,
	External Material	Cold-rolled steel coated with anti-bacteria powder
Inner Door	4pcs	5pcs
Consumption	280W	
Power Supply	AC220V±10%, 50/60Hz 110V60HZ	
Package Size(W*D*H) mm	760*770*1800	770*770*2040
Gross Weight	125kg	140kg

-40°C Freezer



Technical Parameters

Model	BDF-40V268	BDF-40V328
External Size(W*D*H)	673*676*1630mm	673*676*1860mm
Capacity	268L	328L
Type	Vertical	
Temp. Range	-30°C~-40°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor Control LED Display	
Alarm	High or low temperature alarm, power failure alarm, door ajar alarm, sensor failure alarm, temperature controllers failure alarm	
Refrigeration Type	Direct Refrigeration	
Refrigerant	R290	
Compressor	Unicompressor, imported famous brand compressor	
Structure	Uniboday design	
Material Internal	Color sprayed steel	
Material External	Color sprayed steel	
Shelf	3pcs	4pcs
Consumption	300W	
Power Supply	AC220V±10%, 50/60HZ; 110V, 60Hz	
Package Size	760*770*1800mm	770*770*2040mm
Gross Weight	115kg	131kg



360L



450L

Technical Parameters

Model	BDF-40V360	BDF-40V450
External Size(W*D*H)	930*731*1627mm	Up/Down: 650*570*627mm
Capacity	360L	450L
Type	Vertical	
Temp. Range	-10°C~40°C	
Temp. Accuracy	0.1°C	
Control System	Microprocessor Control Digital Display	
Alarm	High or low temperature alarm, door ajar alarm, sensor failure alarm, power failure alarm (BDF-40V450), low battery alarm (BDF-40V450)	
Refrigeration Type	Direct Refrigeration	
Refrigerant	Mixed refrigerant	
Compressor	Unicompressor, imported famous brand compressor	
Construction	Structure	Uniboday design
	Internal Material	Stainless steel interior(Shelves of BDF-40V360 are Plastic, Drawers of BDF-40V450 are ABS material)
	External Material	Painted steel panel, 110mm foaming insulation
Drawer/Shelf	5 shelves, height can not be adjusted	12 drawers
Consumption	500W	650W
Power Supply	AC220V±10%, 50/60HZ; 110V, 60HZ	
Package Size	990*800*1830mm	914*839*2046mm
Gross Weight	122kg	141kg

-40°C Freezer



100L



200L



300L



485L

Technical Parameters

Model	BDF-40H100	BDF-40H200	BDF-40H300	BDF-40H485
External Size(L*W*H) mm	680*580*935	1160*750*860	1530*750*860	1655*755*915
Capacity	100L	200L	300L	485L
Temperature Range	-10°C~-40°C	-15°C~-40°C		-10°C~-40°C
Temperature Accuracy	0.1°C			
Control System	Microprocessor Control, LED Display			
Alarm	BDF-40H100&BDF-40H485: High or low temperature alarm, sensor failure alarm, Power failure alarm, Temperature controller failure alarm BDF-40H200&BDF-40H300: High temperature alarm, sensor failure alarm			
Refrigeration Type	Direct Refrigeration			
Refrigerant	R290	Mixture Refrigerant		R290
Evaporator	Material of Copper			
Construction	Structure	Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation material)		
	Internal material	304 Stainless Steel		
	External material	Cold-rolled steel coated with anti-bacteria powder		
Baskets	\			
Consumption	120W	360W	480W	295W
Power Supply	AC220V±10%, 50/60Hz; 110V, 60Hz			
Package Size(L*W*H) mm	770*705*1090	1300*825*1080	1675*825*1075	1775*900*1050
Gross Weight(kg)	70	130	154	138

Tuna Freezer (-60°C Freezer)



58L



118L / 218L / 318L



458L

Safety system

1. Perfect alarm system with buzzer sound and lamp flashing alarm functions
2. High temperature alarm & Temperature sensor failure alarm
3. Multiple-protection function (Password protection, power-on delay, time between stops, refrigeration system operation protection during sensor failure)

Technical Parameters

Model	BDF-60H58	BDF-60H118A	BDF-60H218	BDF-60H318	BDF-60H458
External Size(W*D*H) mm	670*765*1025	900*765*945	1160*765*880	1530*765*880	2115*895*1090
Internal Size(W*D*H) mm	410*410*380	696*466*385	956*466*592	1326*466*592	1380*500*690
Capacity	58L	118L	218L	318L	458L
Temp. Range	-25°C~-60°C, adjustable				
Temp. Accuracy	0.1°C				
Control System & Display	Microprocessor control, LED display				
Audio & Visual Alarm	High temperature alarm & Temperature sensor failure alarm				
Refrigeration Type	Optimized auto-cascade refrigerating system				
Refrigerant	Unique fluoride-free mixed refrigerant, CFC-Free				
Condenser & Evaporator	Optimized evaporation and condensation system, strong cooling and low energy consumption				
Construction	structure	100mm(150mm only for BDF-60H458; 130mm only for BDF-60H58) ultra-thick foam layer, dual-sealing design of door, for effective temperature protection			
	Internal Material	304 stainless steel			
	External Material	Cold-rolled steel with anti-bacteria powder coating			
Consumption	350W	370W	400W	490W	530W
Power Supply	AC110V/220V±10%, 50/60Hz				
Package Size(W*D*H) mm	730*830*1150	1020*830*1075	1255*830*1030	1680*830*1070	2220*940*1250
Gross Weight	110kg	129kg	143kg	170kg	255kg

-86°C Freezer



158L



338L



408L

Technical Parameters

Model	BDF-86V158	BDF-86V338	BDF-86V408
External Size(W*D*H) mm	700*700*1580	854*1072*1907	872*1028*1945.5
Internal Size(W*D*H) mm	458*430*788	488*607*1140	606*575*1180
Capacity	158L	338L	408L
Type	Vertical		
Temp. Range	-40~-86°C	-40~-86°C	-40~-86°C
Temp. Accuracy	0.1°C		
Control System	Microprocessor control, LED Display		
Audible and Visual Alarm	High temperature, Sensor failure	High and low temperature, Sensor failure, Door ajar, Power failure, Voltage abnormal, Ambient temperature abnormal, Low voltage, Filter blocking	
Refrigeration type	Direct refrigeration		
Refrigerant	Mixture refrigerant	Mixture refrigerant	Mixture refrigeration
Compressor	1 set	2 sets	1 set
Condenser&Evaporator	Made of copper		
Construction	Structure	Unibody design & Mono-assembly foaming (Rigid polyurethane insulation material)	
	Internal Material	SS 304	
	External Material	Cold-rolled steel with anti-bacteria powder coating	
Door	Lockable door		
Caster	4 casters		
Chamber with Inner Door	3	4	4
Shelf	2 pcs	3 pcs	3 pcs
Temp. Test Port	1, φ30mm	1, φ25mm	1, φ25mm
Consumption	480W	870W	735W
Power Supply	AC110V/220V±10%, 50/60Hz		
Standard Accessory	72 hours battery backup for power failure alarm		
Optional Storage Racks and Boxes		12 racks: 4*4 192 Boxes	8 racks: 5*4; 8 racks: 4*4 288 boxes
Package Size (W*D*H) mm	800*780*1720	935*1070*2128	954*955*2094
Gross Weight	155kg	306kg	293kg



100L

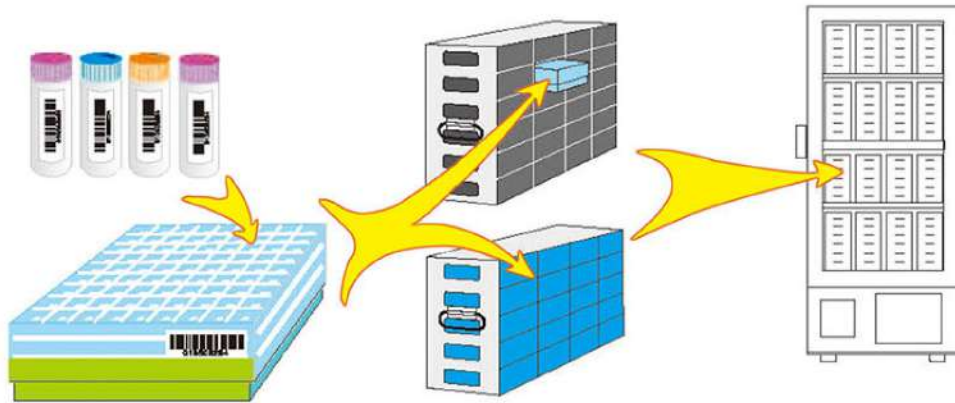


398L/528L

Technical Parameters

Model	BDF-86V100	BDF-86V398	BDF-86V528
External Size(W*D*H) mm	1066*742*820	785*1041*1947	930*1041*1947
Internal Size(W*D*H) mm	450*439*514	440*696*1266	585*696*1266
Capacity	100L	398L	528L
Type	Vertical		
Temp. Range	-10 ~ -86°C		
Temp. Accuracy	0.1°C		
Control System	Microprocessor control, Large Screen LED Display	High-precision microprocessor control, Capacitive touch control screen	Microprocessor control, LCD touch screen
Audio and Visual Alarm	High and low temperature, System failure, Door ajar, Sensor failure, Low voltage, Filter blocking; Power failure		
Refrigeration Type	Direct refrigeration		
Refrigerant	Mixture refrigerant		
Compressor	1 set		
Condenser&Evaporator	Made of copper		
Construction	Structure	Unibody design, two-time foaming technology, 100~155mm foaming insulation, with VIP+	
	Internal Material	SS304	Galvanized sheet spraying
	External Material	Cold-rolled steel coated with anti-bacteria powder	
Door	Lockable door		
Caster	4 casters		
Chamber with Inner Door	2	4	
Temp. Test Port	1, φ25mm	2, φ25mm	
Consumption	1000W	980W	1050W
Power Supply	AC110V/220V±10%, 50/60Hz		
Standard Accessory	Temperature printer, record 7 days data, 72 hours battery backup for printer and controller display		USB port
Optional Accessory	Back-up System	CO ₂ Back-up system	
	Storage Racks and Boxes	3 racks: 4*3; 3 racks: 3*3 63 Boxes	12 racks: 5*5 300 Boxes
Package Size(W*D*H) mm	1180*825*995	880*1150*2085	1025*1150*2085
Gross Weight	176kg	287kg	336kg

Freezer Racks and Boxes



Material of Box:ABS
Size: 2"



Material of Box:Paper Characteristics
Size: 3"



Note:
"A" means side type rack; "B" means drawer type rack;

Technical Parameters

Name	Model	Specification	Dimension(W*D*H)mm	Capacity	Material
Racks	R255A	For 2 inch box, side type; 5 layer*5 row	137*692*292	25 units boxes 2"	SS 304
Racks	R255B	For 2 inch box, drawer type; 5 layer*5 row	142*693*290	25 units boxes 2"	SS 304
Racks	R335A	For 3inch box, side type; 3 layer*5 row	137*692*260	15 units boxes 3"	SS 304
Racks	R335B	For 3 inch box, drawer type; 3 layer*5 row	142*693*262	15 units boxes 3"	SS 304
Racks	R254A	For 2 inch box, side type; 5 layer*4row	137*555*292	20 units boxes 2"	SS 304
Racks	R254B	For 2 inch box, drawer type; 5 layer*4 row	142*556*290	20 units boxes 2"	SS 304
Racks	R244A	For 2 inch box, side type; 4 layer*4 row	137*555*234	16 units boxes 2"	SS 304
Racks	R244B	For 2 inch box, drawer type; 4 layer*4 row	142*556*233	16 units boxes 2"	SS 304
Racks	R334A	For 3 inch box, side type; 3 layer*4row	137*555*260	12 units boxes 3"	SS 304
Racks	R334B	For 3 inch box, drawer type; 3 layer*4 row	142*556*262	12 units boxes 3"	SS 304
Racks	R253A	For 2 inch box, side type; 5 layer*3row	137*418*292	15 units boxes 2"	SS 304
Racks	R253B	For 2 inch box, drawer type; 5 layer*3 row	142*419*290	15 units boxes 2"	SS 304
Racks	R11	For 2 inch box, hike type; 11 layer	140*147*630	11 units boxes 2"	SS 304
Racks	R8	For 2 inch box, hike type; 8 layer	140*147*462	8 units boxes 2"	SS 304
Racks	R10	For 2 inch box, hike type; 10 layer	140*147*574	10units boxes 2"	SS 304

Freeze Dryer

Laboratory Freeze Dryer

Introduction

The lab series freeze dryer is suitable for freeze drying test of laboratory biomedical samples.

Widely used in drugs, biological products, chemical and food industries. On the heat-sensitive substances such as antibiotics, vaccines, blood products, hormones and other biological tissue enzymes, freeze-drying technology is applied.

Features

1. LCD touch screen.
2. With historical data inquiry function.
3. With USB interface to export the data.
4. Large capacity ice condenser trap and without coil inside.
5. With cascade refrigeration technology.
6. Pre-freezing shelf can be used as guide barrel to speed up the drying rate.
7. Ice condenser trap and operation panel are made by stainless steel.
8. Drying chamber is transparent which is visual and safe.
9. Shelves are stainless steel, which can be adjustable per the requirements.

Accessories



Standard Chamber



Stopping Chamber



Standard Stopping Chamber with 8 Port Manifold



Standard Chamber with 8 Port Manifold



Vacuum pump (standard)



LCD Touch Screen for BK-FD10/12 series



LCD Touch Screen for BK-FD18 series



Wide mouth flask (optional)

Pilot Freeze Dryer

Introduction

Biobase vacuum freeze dryer (square cabinet) is suitable for laboratory samples of freeze drying test, and a small amount of production.

Features

1. Pre-freezing, drying in-situ, easy to operate, good drying effect.
2. Inflatable (discharge) valve adopts safety diaphragm valve, which can be connected to inert gas source, and is filled with inert gas after drying to extend the shelf life of the material.
3. Freeze-drying curve optimization control technology, which can control the cooling rate during the pre-freezing stage, and control the heating rate of the sample and the vacuum value of the current stage in the sublimation and analytical drying stages.
4. 7-inch true color touch screen.
5. Can save hundreds of process recipes, each group contains 50 temperature control sections to improve process optimization rate.
6. Intelligent data recording system, real-time recording and display of cold trap temperature curve, sample temperature curve, vacuum degree curve, export data can be browsed and printed by computer and various operations to facilitate process optimization and drying effect verification.
7. Flexible manual + automatic control mode, manual mode used for groping process, automatic mode used for batch production.
8. Real-time alarm display and historical alarm query function for fault diagnosis and equipment maintenance.
9. User level and password can be set and decentralized for operation management.

Accessories



Compressor



Tray



Clamp

Tabletop Freeze Dryer



Technical Parameters

Model	BK-FD10S	BK-FD10P	BK-FD10T	BK-FD10PT
Type	Standard chamber	Standard chamber with 8 port manifold	Stopping chamber	Stopping chamber with 8 port manifold
Freeze Drying Area	0.12m ²		0.09m ²	
Tray	4 pcs		3 pcs	
Height Between Trays	50mm		68mm	
Cold Trap Temperature	≤-56°C			
Cold Trap Capacity	9.5L			
Cold Trap Size (Diameter*H)	Φ215*260mm			
Vacuum Degree	<10Pa			
Water Capture Capacity	3kg/24h			
Tray Size (D*H)	Φ200*20mm		Φ180*20mm	
Freeze Drying Time	24h			
Loading Capacity/Shelf (Liquid)	0.3L			
Total Loading Capacity (Liquid)	1.2L		0.9L	
Drying Chamber Size (Diameter*H)	Φ260*310mm	Φ260*450mm		
Total Qty. Of Vial Φ22	260		195	
Total Qty. Of Vial Φ16	480		360	
Total Qty. Of Vial Φ12	920		690	
Refrigerant	R600a+R290+R23			
Cooling System	Air cooling			
Power Consumption	1.3KW			
Power Supply	AC220V, 50/60Hz(single phase); 110V, 60Hz(single phase)			
Standard Accessory	Vacuum pump 2L/S, 8m ³ /h (for all models) Conical-mouth flask 500ml*8 pcs (only for model BK-FD10P/PT)			
Optional Function & Accessory	Conical-mouth flask and wide-mouth flask (for BK-FD10P/PT) Import vacuum pump			
External Size (W*D*H)	640*610*550/810mm	640*610*550/950mm	640*610*550/990mm	
Package Size	Main Body 720*705*730(85kg)			
(W*D*H) mm/ Gross Weight	Drying Chamber /Vacuum Pump	705*590*530 (50kg)	705*590*530 (55kg)	705*590*530 (60kg) 720*705*730 (65kg)

Vertical Freeze Dryer



BK-FD12S



BK-FD12P



BK-FD12T



BK-FD12PT

Technical Parameters

Model	BK-FD12S(-56/-80)		BK-FD12P(-56/-80)		BK-FD12T(-56/-80)		BK-FD12PT(-56/-80)		
Type	Standard chamber		Standard chamber with 8 port manifold		Stoppering chamber		Stoppering chamber with 8 port manifold		
Freeze Drying Area	0.12m ²				0.09m ²				
Tray	4 pcs				3 pcs				
Height Between Trays	50mm				68mm				
Cold Trap Temperature	≤-56°C/-80°C								
Cold Trap Capacity	9.5L								
Cold Trap Size(D*H)	Φ215*260mm								
Vacuum Degree	<10Pa								
Water Capture Capacity	4kg/24h								
Tray Size (D*H)	Φ200*20mm								
Freeze Drying Time	24h								
Loading Capacity/Shelf(Liquid)	0.3L								
Total Loading Capacity(Liquid)	1.2L				0.9L				
Drying Chamber Size(D*H)	Φ260*310mm		Φ260*450mm		Φ260*450mm				
Can Load Vials Qty	Φ22mm	260				195			
	Φ16mm	480				360			
	Φ12mm	920				690			
Refrigerant	R600a+R290+R23								
Cooling System	Air cooling								
Consumption	-56°C: 0.9kW, -80°C: 1.5kW								
Power Supply	AC220V, 50Hz(single phase); 110/220V, 60Hz (single phase, only for -56°C)								
Standard Accessory	Vacuum pump 2L/S, 8m ³ /h (for all models), Conical-mouth flask 500mlx8 (only for model BK-FD12P/PT)								
Optional Function & Accessory	Tray heating (for all models), Cold trap defrosting (for all models), Conical-mouth flask and wide-mouth flask(for BK-FD12P/PT), Import vacuum pump								
External Size(W*D*H)	460*620*920/1370mm								
Package Size (W*D*H)mm /	Main Body	1000*700*570 / 90kg		1000*700*570 / 90kg					
	Drying Chamber	300*300*350 / 12kg		350*350*570 / 12kg					
Gross Weight	Vacuum Pump	590*380*220 / 22kg		590*380*220 / 22kg					



BK-FD18S



BK-FD18P



BK-FD18T



BK-FD18PT

Technical Parameters

BK-FD18S(-56)	BK-FD18P(-56/-80)	BK-FD18T(-56/-80)	BK-FD18PT(-56/-80)
Standard chamber	Standard chamber with 8 port manifold	Stoppering chamber	Stoppering chamber with 8 port manifold
0.18m ² 4 pcs		0.12m ² 3 pcs	
80mm ≤-56℃	70mm ≤-56℃/-80℃		
26L Φ296*390mm <10Pa	22L Φ270*420mm <5Pa		
6kg/24h			
Φ240*20mm	Φ240*18mm	Φ200*18mm	
24h			
0.3L			
1.8L		1.2L	
Φ300*451mm	Φ300*465mm	Φ300*465mm	
360		270	
740		555	
1320		990	
R600a+R290+R23	R134a+R22		
Air cooling			
-56℃: 1.7KW	-56℃: 1.4KW, -80℃: 2.1KW	-56℃: 1.8KW, -80℃: 2.1KW	
AC220V, 50/60Hz(single phase), 110V, 60Hz(single phase)			
Vacuum pump 4L/S, 14.4m ³ /h (for all models), Conical-mouth flasks 100ml*2, 250ml*2, 500ml*2, 1000ml*2 (only for model BK-FD18P/PT)			
\	Tray heating function (for all models), Cold trap defrosting function (for all models), Conical-mouth flask and wide-mouth flask (for BK-FD18P/18PT), Import vacuum pump		
560*710*950/1400mm	630*580*970/1430mm	810*580*950/1410mm	
804*672*1170 / 102kg	780*720*1200 (165kg)		
710*660*650 / 60kg	400*420*640 (18kg)	640*220*410 (25kg)	

Pilot Freeze Dryer



BK-FD20S



BK-FD20T



BK-FD30S



BK-FD30T

Technical Parameters

Model	BK-FD20S(Standard)	BK-FD20T(Stoppering)	BK-FD30S(Standard)	BK-FD30T(Stoppering)	
Freeze Drying Area	0.3m ²	0.2m ²	0.4m ²	0.3m ²	
Shelf Temperature	-50°C~+70°C				
Cold Trap Temperature	-75°C				
Vacuum Degree	<5Pa				
Max. Water Capture Capacity	5kg		6kg		
Cold Trap Volume	13.5L				
Cold Trap Size (D*H)	Φ195*460mm		Φ215*485mm		
Drying Chamber Size (W*D*H)	330*330*450mm		480*385*490mm		
Shelf & Tray Size(W*D*H)	Shelf: 400*270*18mm Tray: 395*265*25mm		Shelf: 300*340*18mm Tray: 295*335*25mm		
Qty. Of Shelf & Tray	Shelf: 3+1, Tray: 3	Shelf: 2+1, Tray: 2	Shelf: 4+1, Tray: 4	Shelf: 3+1, Tray: 3	
Sample Loading Capacity (Liquid)	3L	2L	4L	3L	
Height Between Trays	70mm		50mm	70mm	
Tray Temperature Difference	±1°C				
Refrigerant	R404A + R23				
Condenser Cooling Mode	Air cooling				
Defrost Mode	Electric defrosting		Natural defrosting	Electric defrosting	
Stoppering Mode	/	manual	/	automatic	
Can Load Vials Qty	Φ20mm	/	468	/	702
	Φ18mm	/	864	/	1296
	Φ12mm	/	1584	/	2376
Vacuum Pump	4L/S(14.4m ³ /h)			6L/S(22m ³ /h)	
Electric Defrosting Consumption	400W		/	600W	
Silicone Oil Heating Rods Consumption	400W		/	400W	
Hydraulic Pressure Station Consumption	/	0.75KW	/	0.75KW	
Total Consumption	3KW	3KW	4.5KW	5.5KW	
Power Supply	AC220V, 50/60Hz(single phase); AC110V, 50/60Hz(single phase)				
Main Body Weight	300kg	350kg	350kg	450kg	
External Size(W*D*H) mm	700*750*1520		920*780*1350		
Package Size(W*D*H)mm	Main Body	850*860*1670 / 370kg	850*860*1670 / 470kg	1070*930*1500 / 470kg	1350*950*2100 / 490kg
	Vacuum Pump	600*380*300 / 45kg		600*380*300 / 65kg	

Accessory 1. Standard: 1 set of refrigerant ,



BK-FD50S



BK-FD50T



BK-FD100S



BK-FD100T

Technical Parameters

BK-FD50S(Standard)	BK-FD50T(Stoppering)	BK-FD100S(Standard)	BK-FD100T(Stoppering)
0.69m ²	0.5m ²	1.03m ²	1.15m ²
-50°C~+70°C			
-75°C			
<5Pa			
10kg		15kg	
18L		35L	
Φ300*550mm		Φ300*550mm	
410*480*580mm	480*385*490mm	410*580*560mm	710*600*760mm
Shelf:480*360*18mm	Shelf:410*410*18mm	Shelf:480*360*18mm	Shelf:480*600*18mm
Tray: 475*355*25mm	Tray: 405*405*25mm	Tray: 475*355*25mm	Tray: 475*595*25mm
Shelf: 4+1, Tray: 4	Shelf: 3+1, Tray: 3	Shelf: 6+1, Tray: 6	Shelf: 4+1, Tray: 4
7L	5L	10L	11L
70mm	100mm	70mm	100mm
±1°C			
R404A + R23			
Air cooling			
Natural defrosting	Electric defrosting	Electric defrosting	Electric defrosting
/	automatic	/	automatic
/	1040	/	2016
/	1944	/	3944
/	3456	/	7020
8L/S(29m ³ /h)		15L/S(54m ³ /h)	
500W	800W	600W	1000W
800W	800W	1600W	1600W
/	1.5KW	/	1.1KW
5.5KW	6.5KW	6.5KW	7.5KW
AC380V, 50/60Hz(three phase)			
AC220V, 50/60Hz(three phase)			
550kg	650kg	750kg	950kg
1000*785*1420		1170*830*1665	
1150*935*1570 / 650kg	1150*935*1570 / 800kg	1320*980*1815 / 900kg	1320*980*1815 / 1130kg
715*400*500 / 65kg		715*450*500 / 85kg	

2. Optional: Import vacuum pump, Vacuum pump anti-return valve, Eutectic point tester, Oil mist filtration system, Vacuum adjustment device

Platelet Incubator



BIPX-P10



BIPX-P20

Features

1. Power on/off switch, more convenient for operation.
2. UV lamp for disinfection, the interlock function for UV lamp and door.
3. Microprocessor temperature control, high accuracy sensor, LCD display.
4. High efficiency refrigeration system, fast cooling speed and uniformity temperature inside.
5. Double-layer glass observation window, filled with inert gas, to ensure the cooling performance.
6. Audio and visual alarm for high/low temperature, sensor error, power failure, door ajar, low battery.

Technical Parameters

Model	BJPX-P10	BJPX-P20
Temp. Range	22±2°C	22±2°C
Temp. Accuracy	±0.1 °C	±0.1 °C
Oscillation	60±5cycles/minute	60±5cycles/minute
Amplitude	50±10mm	50±10mm
Trays	5	10
Blood Bags (450ml)	Max.10pcs	Max.20pcs.
Temp. Control	Microprocessor controller	Microprocessor controller
Display	LCD	LCD
Number of Agitator	Single	Single
Refrigerant	R134a, CFC free	R134a, CFC free
Power Supply	AC220±10%, 50/60Hz	AC220±10%, 50/60Hz
Consumption	197W	280W
Internal Size (W*D*H) mm	427*360*467	432*462*728
External Size (W*D*H) mm	522*600*1050	522*600*1300
Package Size (W*D*H) mm	640*740*1270	695*700*1450
Net /Gross Weight	66/87kg	85/109kg



Features

1. Audio and visual alarm for high/low temperature, stalling speed.
2. Stainless steel inner chamber, round angle structure, easy cleaning.
3. UV lamp for disinfection, the interlock function for UV lamp and door.
4. Microprocessor control system, LCD display. RS485 interface for software connection.
5. High efficiency refrigeration system, fast cooling speed and uniformity temperature inside.
6. Double-layer glass observation window, filled with inert gas, to ensure the cooling performance.

Technical Parameters

Model	BJPX-P10-II	BJPX-P20-II
Temp. Range	22±2°C	22±2°C
Temp. Accuracy	±1°C	±1°C
Oscillation	60±5cycles/minute	60±5cycles/minute
Amplitude	30mm	30mm
Trays	5	7
Blood Bags (450ml)	Max.10pcs	Max.14pcs
Temp. Control	Microprocessor controller	Microprocessor controller
Display	LCD	LCD
Number of Agitator	Single	Single
Refrigerant	R134a, CFC free	R134a, CFC free
Power Supply	AC220±10%, 50/60Hz	AC220±10%, 50/60Hz
Consumption	180W	250W
Internal Size (W*D*H) mm	400*370*550	450*420*850
External Size (W*D*H) mm	540*570*1070	590*620*1370
Package Size(W*D*H) mm	700*730*1260	750*780*1560
Net /Gross Weight	50/85Kg	90/120 Kg

Car Refrigerator



Features

1. Removable tray for extra storage
2. Environment-friendly semiconductor cooling, low noise

Technical Parameters

Model	CR-18
Display	LED
Capacity	18L
Temp. Range	0°C~65°C(ambient 25°C)
Material	ABS
Casters	No
Consumption	70W
Power Supply	DC12V/24V, AC110/220V±10%
External Size(W*D*H) mm	250*270*320
Internal Size(W*D*H) mm	230*245*300
Package Size(W*D*H) mm	490*360*390
Gross Weight	8kg

Portable Refrigerator

Features

1. The storage container can keep content cooling up to 24 hours.
2. Insulation material is PU CFC-free polyurethane.
3. Made of environmental PP material, food grade, non-toxic.
4. Storage container is durable for vaccine storage, blood products storage, dry ice storage, frozen specimen storage etc.



LCX-6L



LCX-12L



LCX-17L



LCX-20L



LCX-33L



LCX-54L



Ice vessels

Technical Parameters

Model	LCX-6L	LCX-12L	LCX-17L	LCX-20L	LCX-33L	LCX-54L
External Size(W*D*H)mm	340*230*280	420*240*300	460*300*340	440*270*310	570*310*370	645*395*420
Internal Size(W*D*H)mm	226*140*210	330*170*225	350*220*250	375*215*250	450*225*300	525*300*335
Capacity	6L	12L	17L	20L	33L	54L
Temp. Range	2°C~8°C					
Storage Time(Ambient 30°C)	>48h	>24h				>48h
Material	External	PP				
	Internal	PU				
Ice Vessels	6(CMB-400)	6(CMB-400)	2(CMB-1200)	8(CMB-400)	2(CMB-1200)	4(CMB-1500)
Max. Loading	6kg	8kg	15kg	18kg	25kg	60kg
Optional Accessory	LED display thermometer (LCX-17L: Lock and Thermometer)					
Net Weight	1.9kg	1.9kg	3.2kg	3.5kg	3.5kg	7.8kg
Gross Weight	4.9kg	5.7kg	6.5kg	7.5kg	7.5kg	16.2kg
Package Size(W*D*H)mm	440*290*223	430*255*315	440*330*370	450*280*325	590*320*370	650*410*435

Flake Ice Maker

Applicable area

Various types of experiments, hospitals, schools, laboratories, medical, chemical applications, supermarkets, hotels and other seafood products stores etc.



Small particles of irregular snow ice



Technical Parameters

Model	FIM20	FIM30	FIM40	FIM50	FIM60	FIM70	FIM85
Ice Making Capacity(kg/24h)	20	30	40	50	60	70	85
Ice Storage Capacity(kg)	10	10	15	15	25	25	25
Ice Shape	Small particle of irregular snow ice						
Input Current(W)	280	300	360	380	420	460	480
Way of Condensation	Air cooling						
Ambient Temperature	10~35°C						
Water Temperature	2~15°C						
Tank Shell	Stainless steel						
Refrigerant	R134a						
Standard Accessories	Water inlet pipe*1, Drainage pipe*1, Ice spoon*1						
Optional Accessories	Filter						
Power Supply	AC 220V±10%, 50/60HZ; 110V±10%, 60HZ						
Net Weight(kg)	28		36		42		45
Gross Weight(kg)	44		55		64		67
External Size(W*D*H)mm	330*470*605		400*543*720		400*510*875		
Package Size(W*D*H)mm	460*620*760		520*660*850		520*620*1010		

Model	FIM100	FIM120	FIM150	FIM200	FIM250
Ice Making Capacity(kg/24h)	100	120	150	200	250
Ice Storage Capacity(kg)	40	40	40	60	60
Ice Shape	Small particle of irregular snow ice				
Input Current(w)	520	550	680	1040	1100
Way of Condensation	Air cooling				
Ambient Temperature	10~35°C				
Water Temperature	2~15°C				
Tank Shell	Stainless steel				
Refrigerant	R134a			R404a	
Standard Accessories	Water inlet pipe*1, Drainage pipe*1, Ice spoon*1				
Optional Accessories	Filter				
Power Supply	AC 220V±10%,50/60HZ ; 110V±10%, 60HZ				
Net Weight(kg)	58		60	80	
Gross Weight(kg)	82		84	105	
External Size(W*D*H)mm	500*611*940			680*611*1100	
Package Size(W*D*H)mm	720*620*1130			670*740*1250	

Split-Type Flake Ice Maker



FIM300



FIM500

Applicable area

Various types of experiments, hospitals, schools, laboratories, medical, chemical applications, supermarkets, hotels and other seafood products stores etc.

Technical Parameters

Model	FIM300	FIM500
Ice Making Capacity(kg/24h)	300	500
Ice Storage Capacity(kg)	200	300
Ice Shape	Small particle of irregular snow ice	
Input Current(w)	1360	2100
Way of Condensation	Air cooling	
Ambient Temperature	10~35℃	
Water Temperature	2~15℃	
Tank Shell	Stainless steel	
Refrigerant	R404a	
Standard Accessories	Water inlet pipe*1, Drainage pipe*1, Ice spoon*1	
Optional Accessories	Filter	
Power Supply	AC 220V±10%,50/60HZ ; 110V±10%, 60HZ	
Net Weight(kg)	95	125
Gross Weight(kg)	105	135
External Size (W*D*H)mm	Head Size 563*574*683 Ice Tank Size 560*800*1010	763*624*760 760*810*1110
Package Size (W*D*H)mm	Head Size 650*660*850 Ice Tank Size 600*850*850	845*705*950 800*850*1060

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