BLOOD BANK REFRIGERATOR

JE TEMP GONTROL SPECIALIST MEDICAL GRADE







Safe



Stable



Eco



CFC-free



Alarms

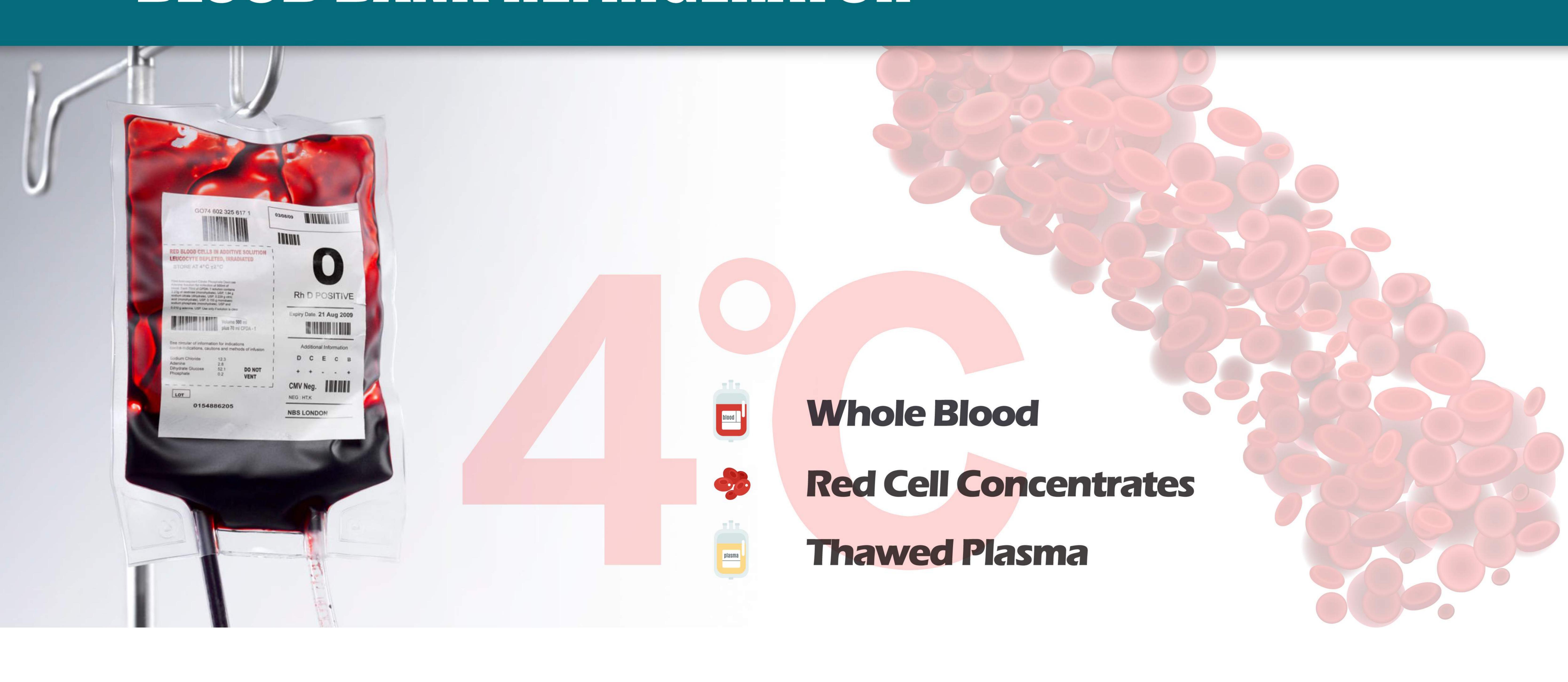








BLOOD BANK REFRIGERATOR

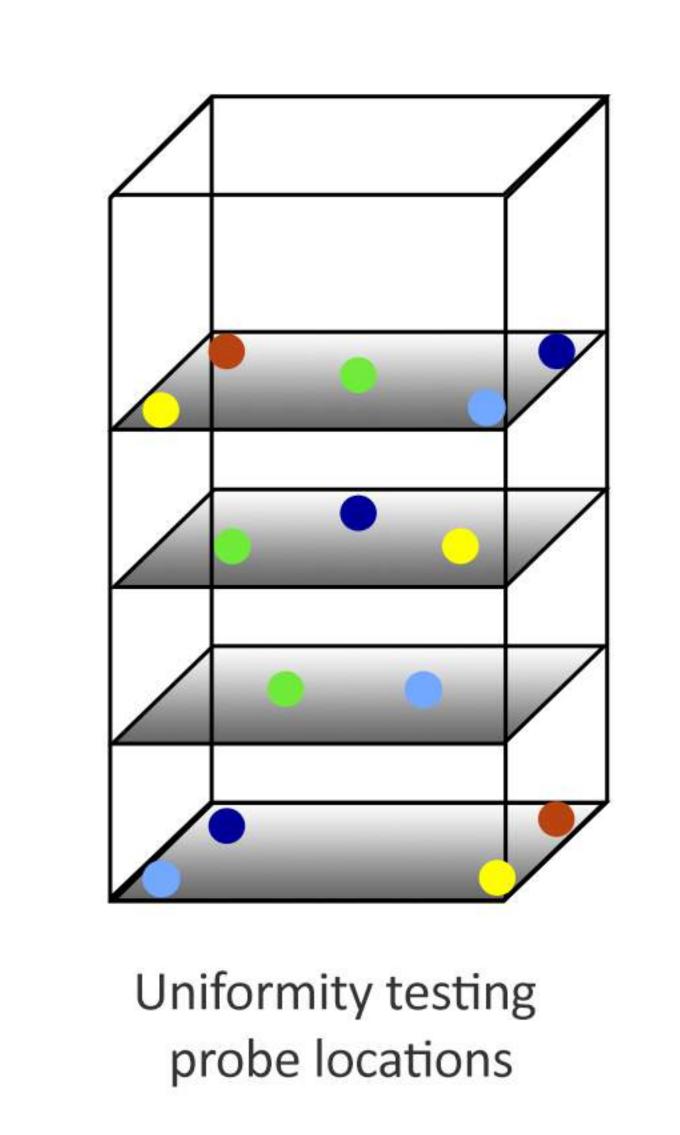


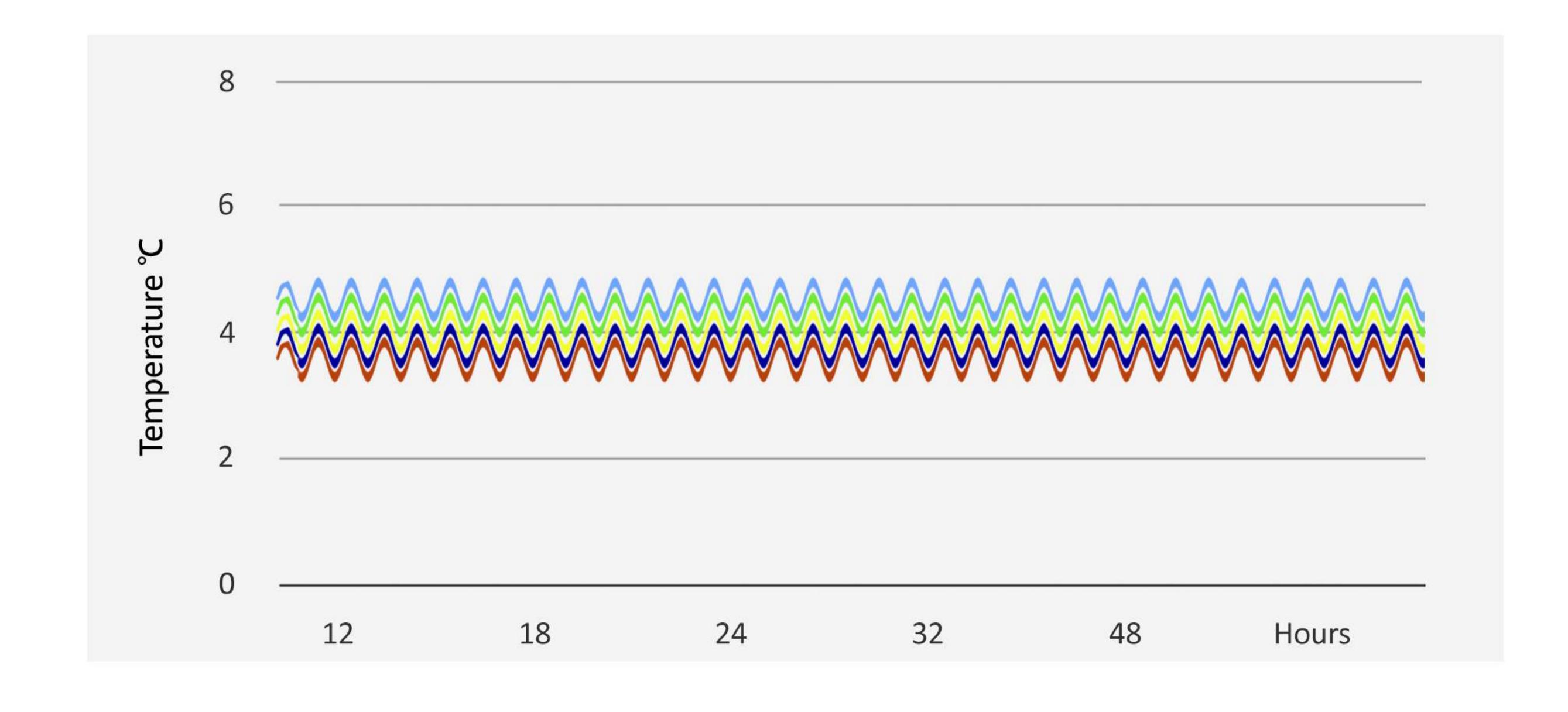


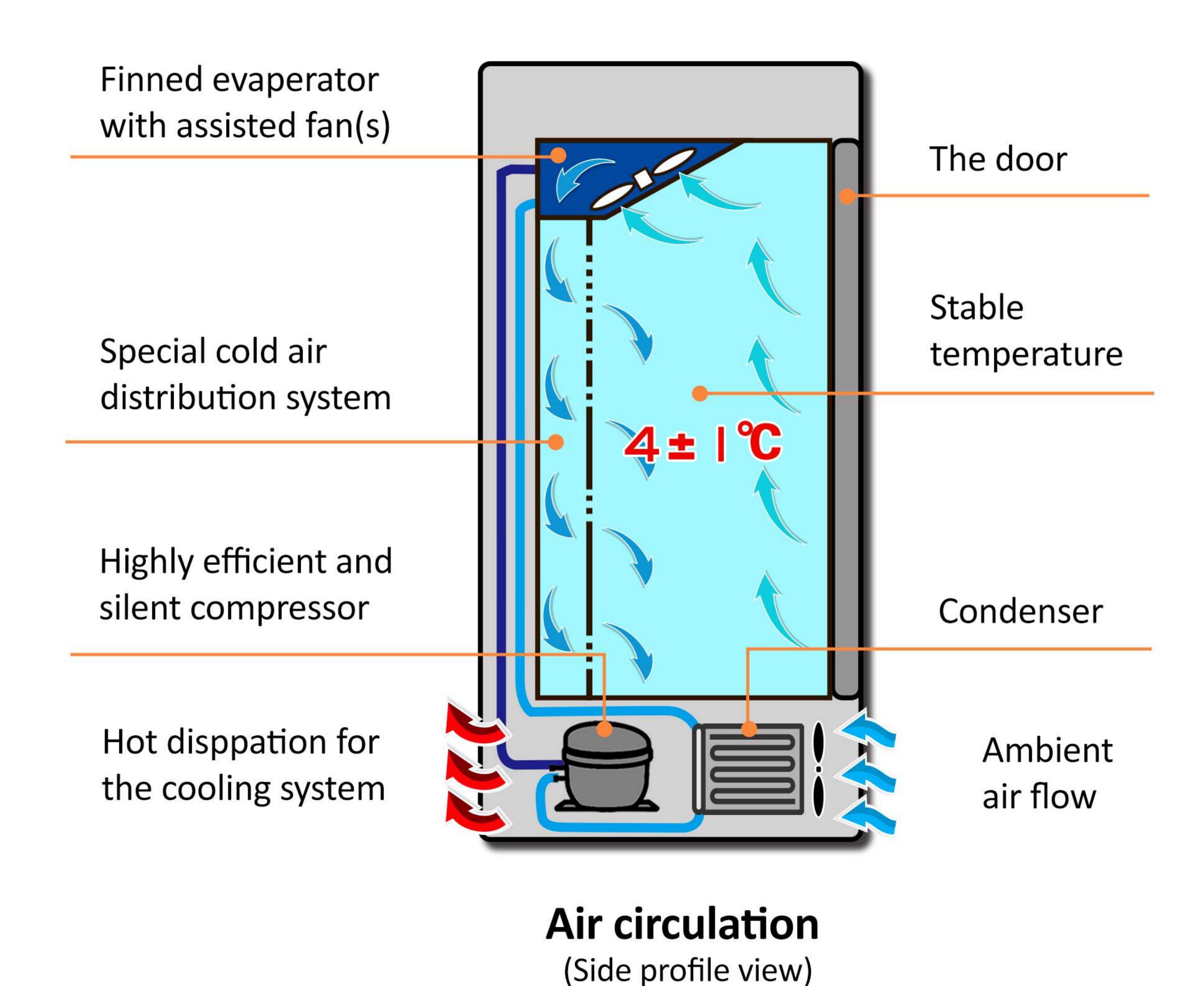
TEMPERATURE CONTROL TECHNOLOGY

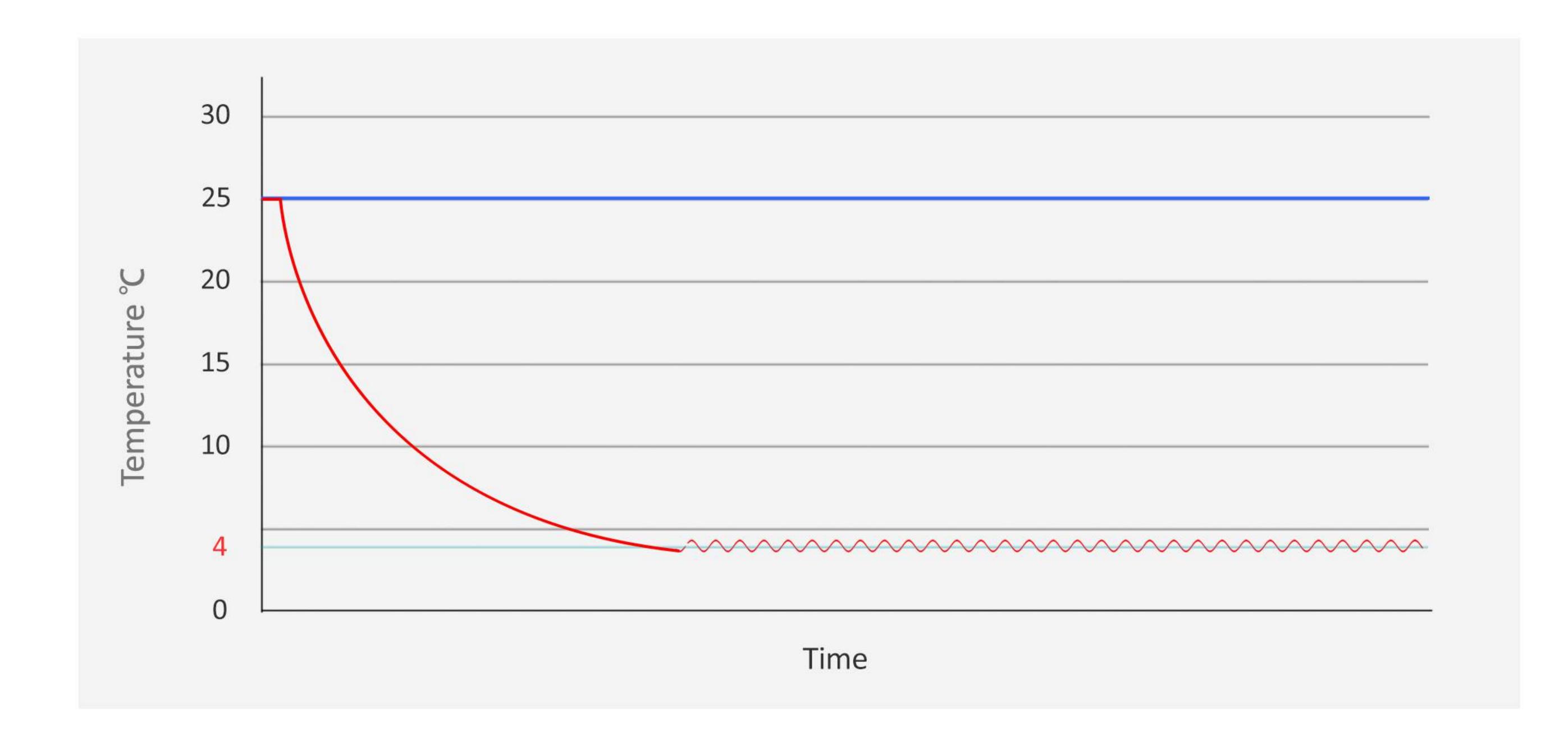
>> Ultimate uniformity

The chamber maintain temperatures within +/-1°C throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.









>> Optimized fluctuation

Maintain superior temperature stability @ 4±1°C, avoiding rapid and significant changes in temperature. This ensures that samples, medications, vaccines, and blood therapies are consistently stored in their optimal environment, without compromise.

>>> Fast recovery

Faster temperature recovery even after prolonged door openings. The forced-air circulation system maintains consistent temperatures, ensuring that contents are stored at the right temperature even when the unit is opened multiple times per hour.

>> Advanced air circulation

The forced-air circulation system maintains uniform chamber temperatures and provide fast temperature recovery after door openings. The units do not require a defrost cycle to maintain a constant temperature, ensuring that items are always stored at the desired temperature without interruption.

BLOOD BANK REFRIGERATOR

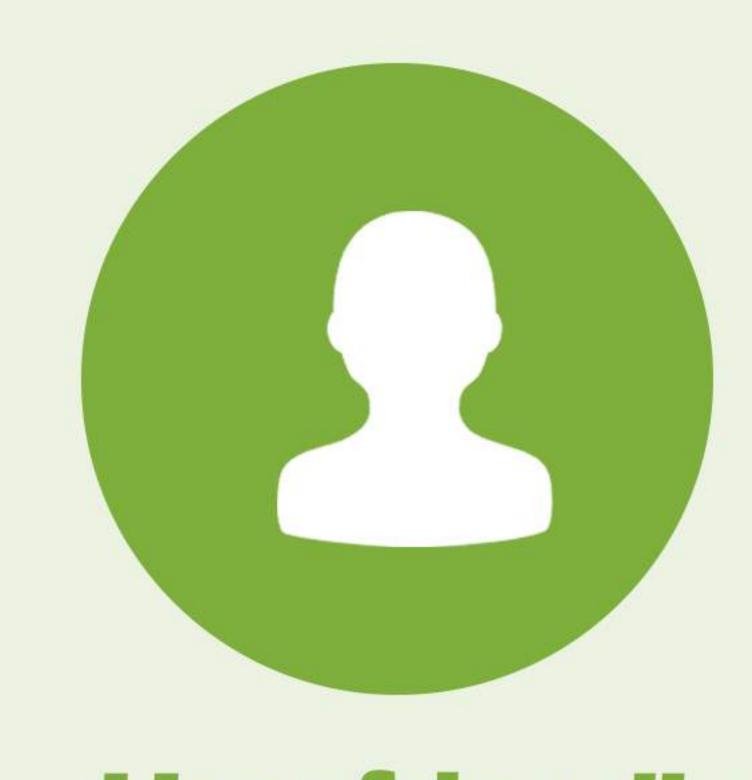


to safeguard patient samples and ensure medications remain effcacious.



Presice temp control

to ensure stable and accurate temperatures in the chamber



User-friendly

to bring convenience and easy maintenance to users

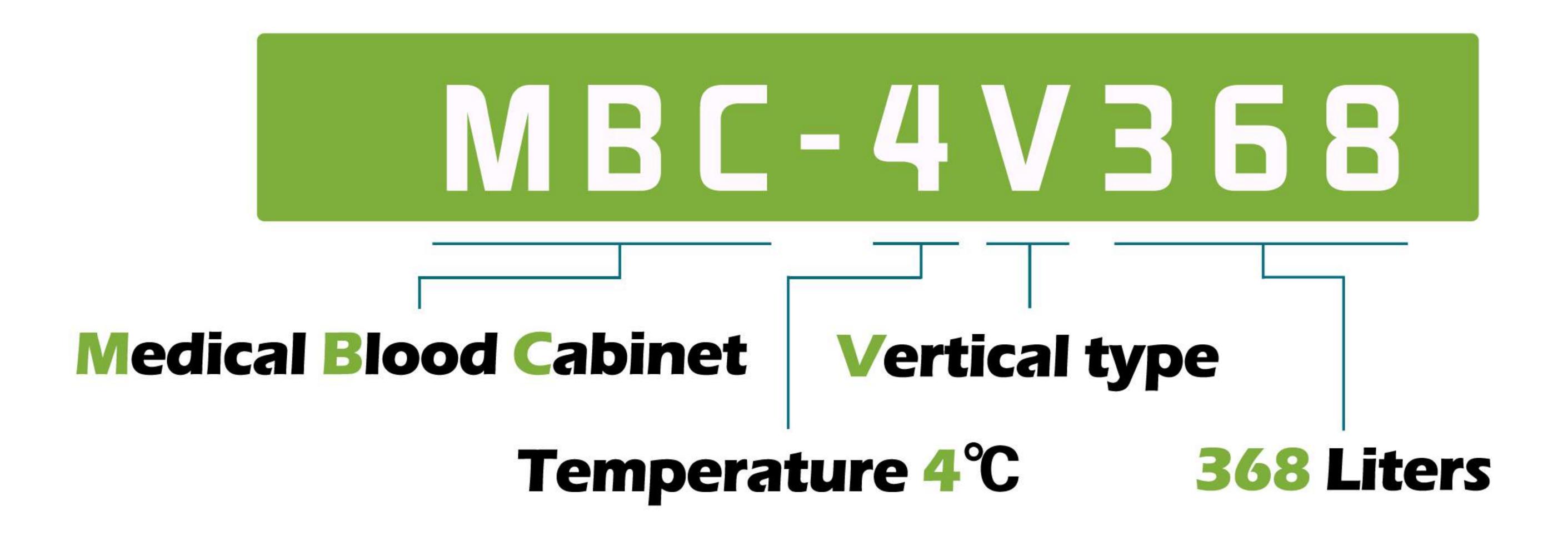


Eco-friendly

to reduce operating costs, privide a quiet working environment and support sustainability initiatives



GUIDE TO MODELS Find out the model you need quickly





© ECO-FRIENDLY & USER-FRIENDLY



Thermal printer

All the units are equipped with built-in thermo printers to record and print real-time temperature data, which facilitates users to monitor the status of the machines and maximize the safety of blood.



Natural Refrigerants

Sustainable U.S. EPA, SNAP, and EU F-Gas compliant natural refrigerants and foaming agents support sustainability initiatives. The cooling system uses R290 which are are environmentally friendly, having no impact on ozone depletion and a very low Global Warming Potential (GWP) grade.



High-efficiency cooling system

Operating at a low noise level while still providing efficient cooling, our advanced cooling technology offers lower energy consumption and better user experiences.



MBC-4V1008



>> Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.

>>> Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time.

>>> Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals, enabling real-time monitoring of the temperature inside the unit. The chart recorder is an optional accessory that can serve as an additional temperature monitoring device.

>> Electrically heated glass doors

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass doors, which quickly evaporate any moisture.



3-fan-assisted evaperator

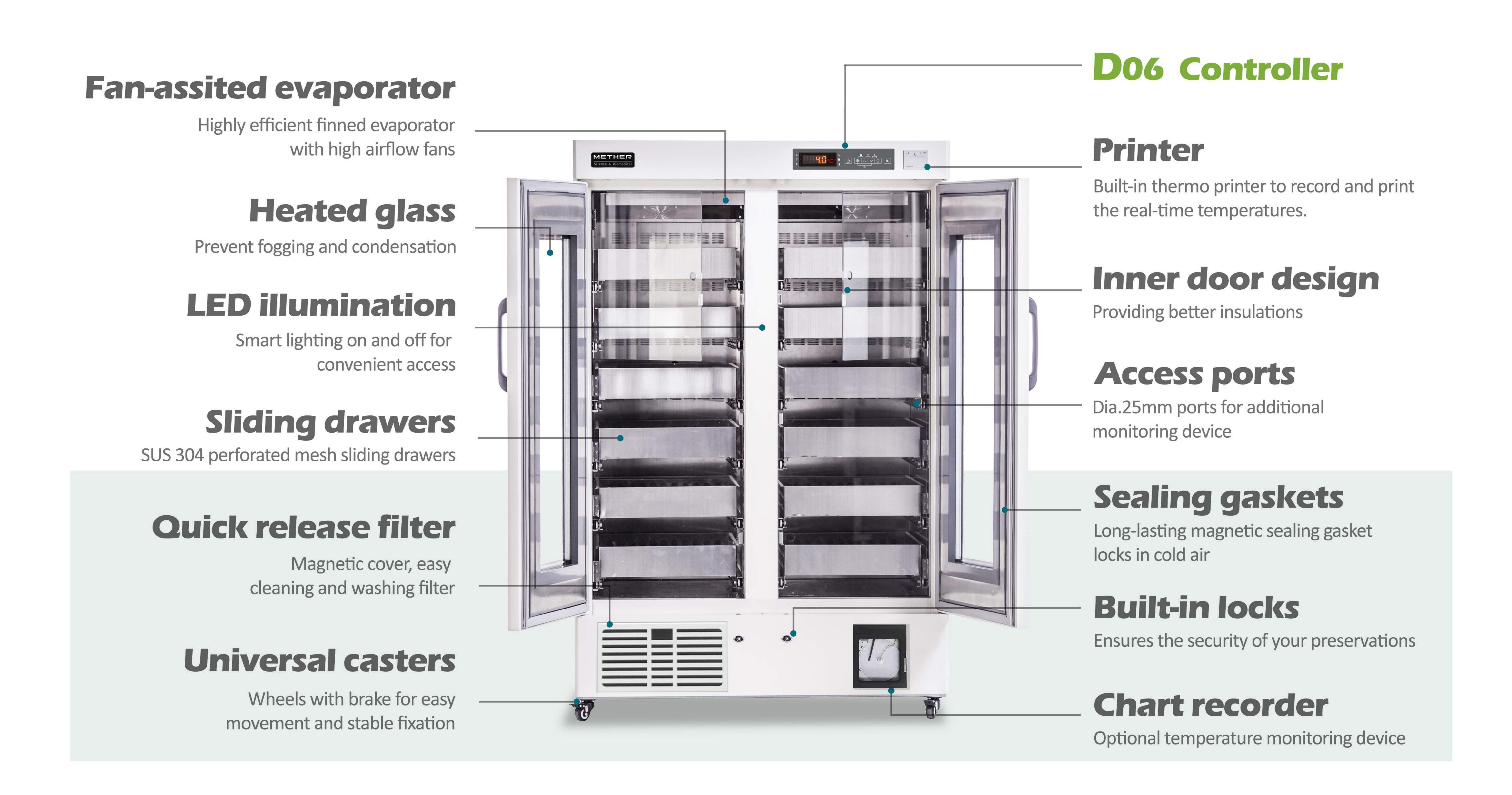


Acrylic inner door design



Thermal printer

© CONSTRUCTION



D06 Controller

- A digital microprocessor temperature controller with LED display and built-in alarm back up power.
- The precision of display and control is 0.1°C.
- Factory pre-set to 4°C for blood bank refrigerators.
- Alarms: High/low temperature, power failure, sensor error and door ajar.
- Extensions: Remote alarm interface.

>>> High quality materials

The units are made of high-quality coated cold-rolled steel exterior and stainless steel interior, anti-corrosive, and easy to clean.

2 Quick release filter

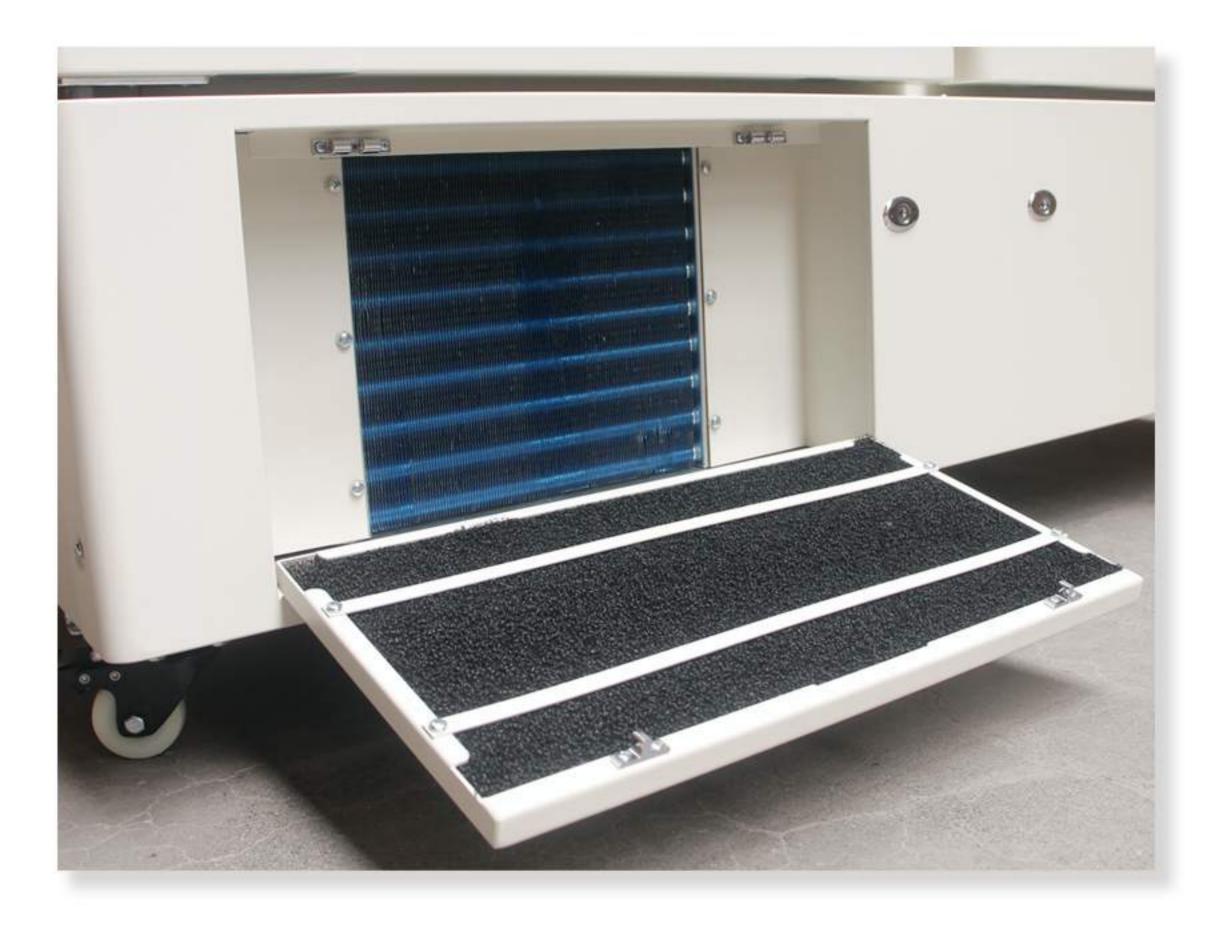
The condenser filter screen mask is designed with a magnetic suction, making it more convenient to maintain and clean the filter screen.

>>> Lockable cabinets

The unit standard equipped with a built-in lock for each door, provides a secure storage space for your preservations.



Stainless steel perforated sliding drawers



Quick release filter



MBC-4V368



>> Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.

>>> Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time.

>> Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals. And An internal USB data logger for recording and exporting temperature & alarm data through a built-in USB interface.

>> Electrically heated glass door

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



Fan-assisted evaporator and LED lighting



Quick release filter design



Thermal printer and USB interface

Z06 Controller

- A digital microprocessor temperature controller with LED display and built-in alarm back up power.
- The precision of display and control is 0.1°C.
- Factory pre-set to 4°C for blood bank refrigerators.
- Alarms: High/low temperature, power failure, sensor error, door ajar, ambient temperature, backup battery failure, condenser fault and ambient temperature
- Internal USB data logger: Temperature recording data can be exported to PDF or Excel format via built-in USB interface.
- Extensions: Remote alarm interface, RS485.

- (1) Cooling status indicator (7) Power switch (13) Keyboard lock (Combination)

- 2 Defrost indicator
- (8) Setting
- 14) Defrost (Combination)

(16) Print (Combination)

15) Download (Combination)

(3) Fan status indicator

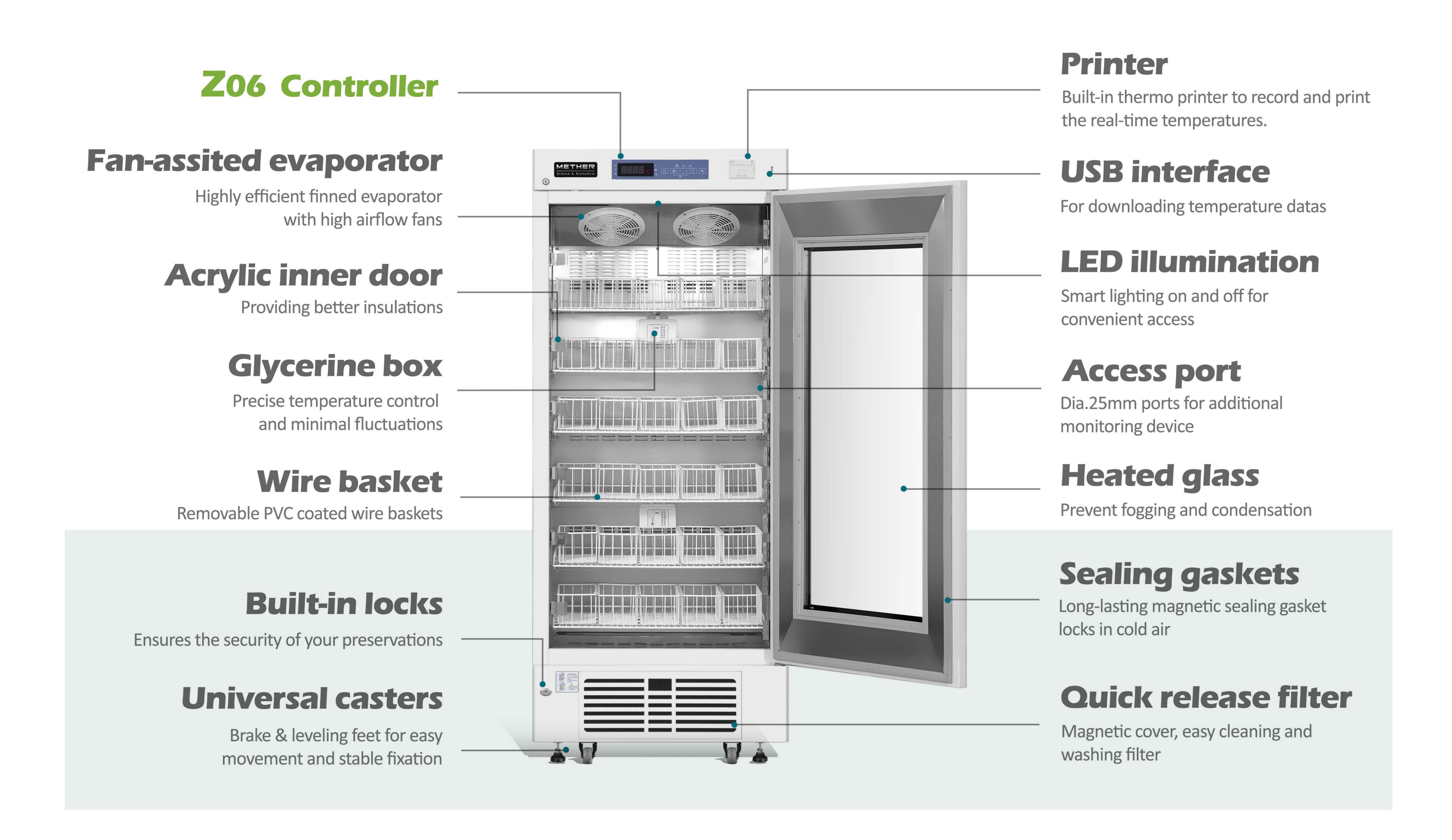
(4) Power indicator

- (9) Up
- - (10) Down
- (5) Keyboard lock indicator (11) Lighting
- 6 Door open indicator (12) Mute

High quality materials

The units are made of high-quality coated cold-rolled steel exterior and stainless steel interior, anti-corrosive, and easy to clean.

CONSTRUCTION





MBC-4V658



>>> Superair cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.

Witimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time.

>> Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals. And An internal USB data logger for recording and exporting temperature & alarm data through a built-in USB interface.

>>> Electrically heated glass door

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



Fan-assisted evaporator and LED lighting



Acrylic inner door design



Thermal printer

D06 Controller

- A digital microprocessor temperature controller with LED display and built-in alarm back up power.
- The precision of display and control is 0.1°C.
- Factory pre-set to 4°C for blood bank refrigerators
 Temperature range adjustable between 2-14 degrees.
- Alarms: High/low temperature, power failure, sensor error and door ajar.
- Extensions: Remote alarm interface.



The units are made of high-quality coated cold-rolled steel exterior and stainless steel interior, anti-corrosive, and easy to clean.

>>> Lockable cabinets

The unit standard equipped with a built-in lock for each door, provides a secure storage space for your preservations.

>> Temperature chart recorder

The optional chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of inner temperature.

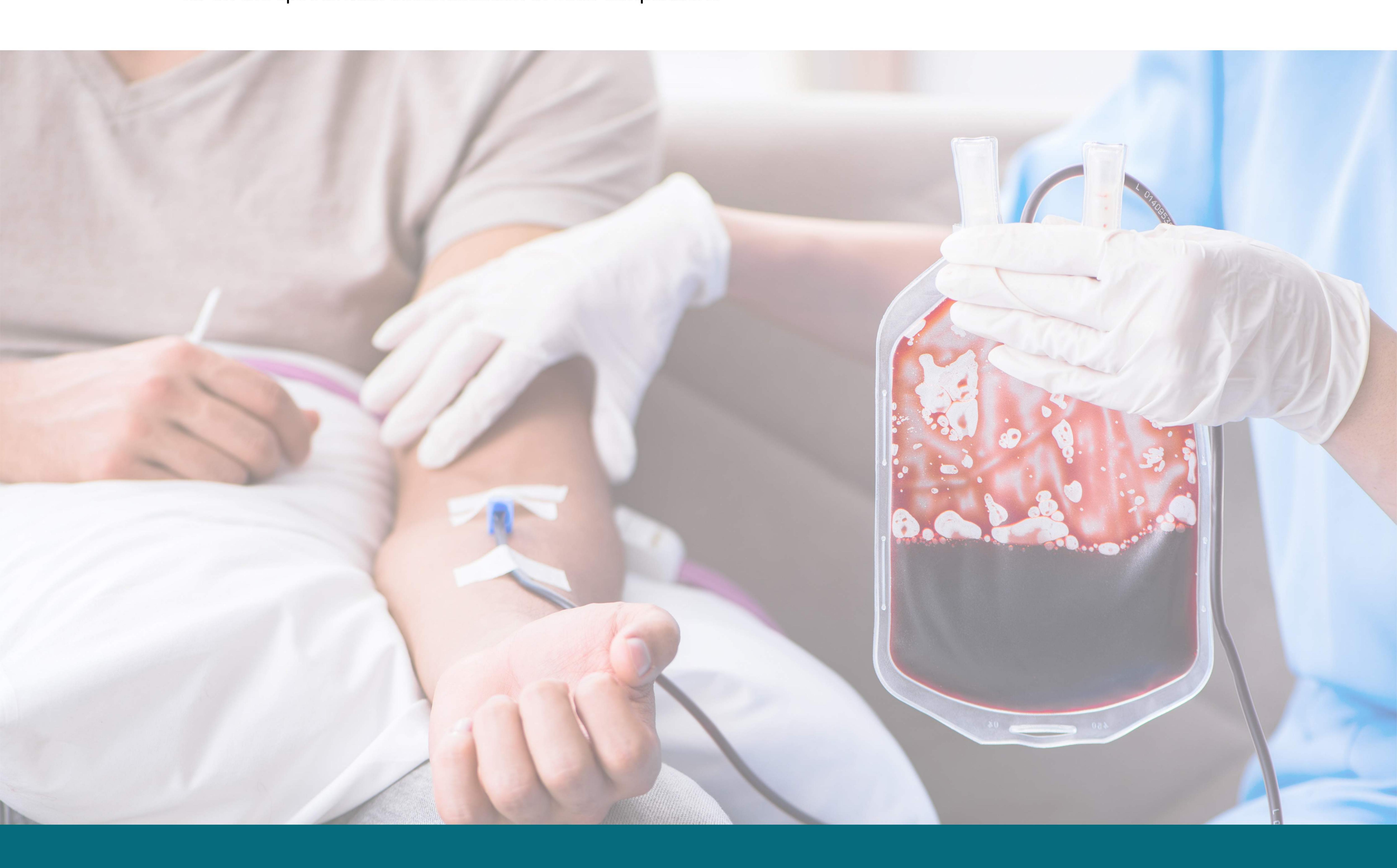




PVC coated wire baskets



Chart recorder









MBC-4V208



FEATURES

>> Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.

>>> Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time.

>>> Temperature recording

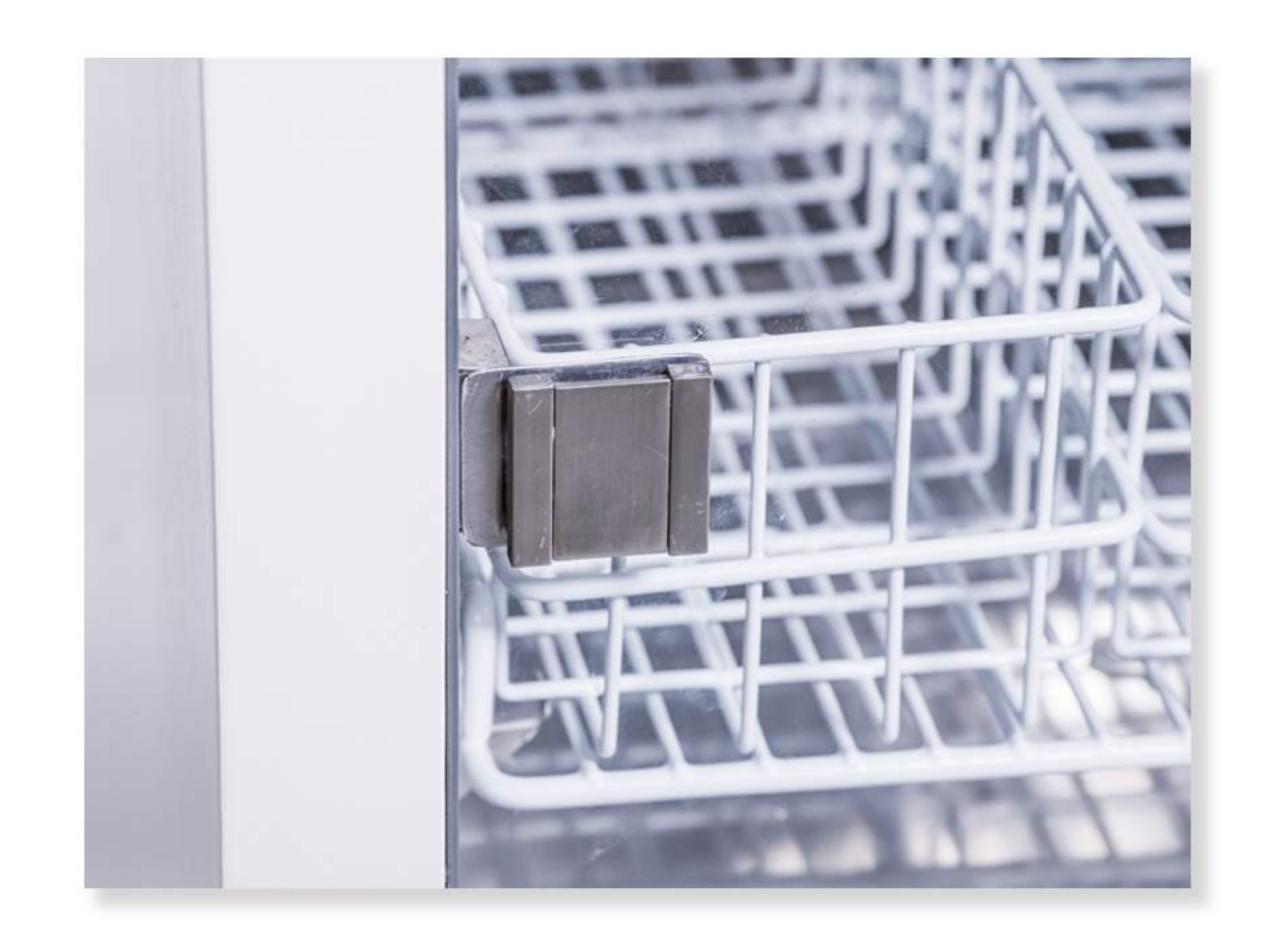
The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals. And An internal USB data logger for recording and exporting temperature & alarm data through a built-in USB interface.

>>> Electrically heated glass door

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



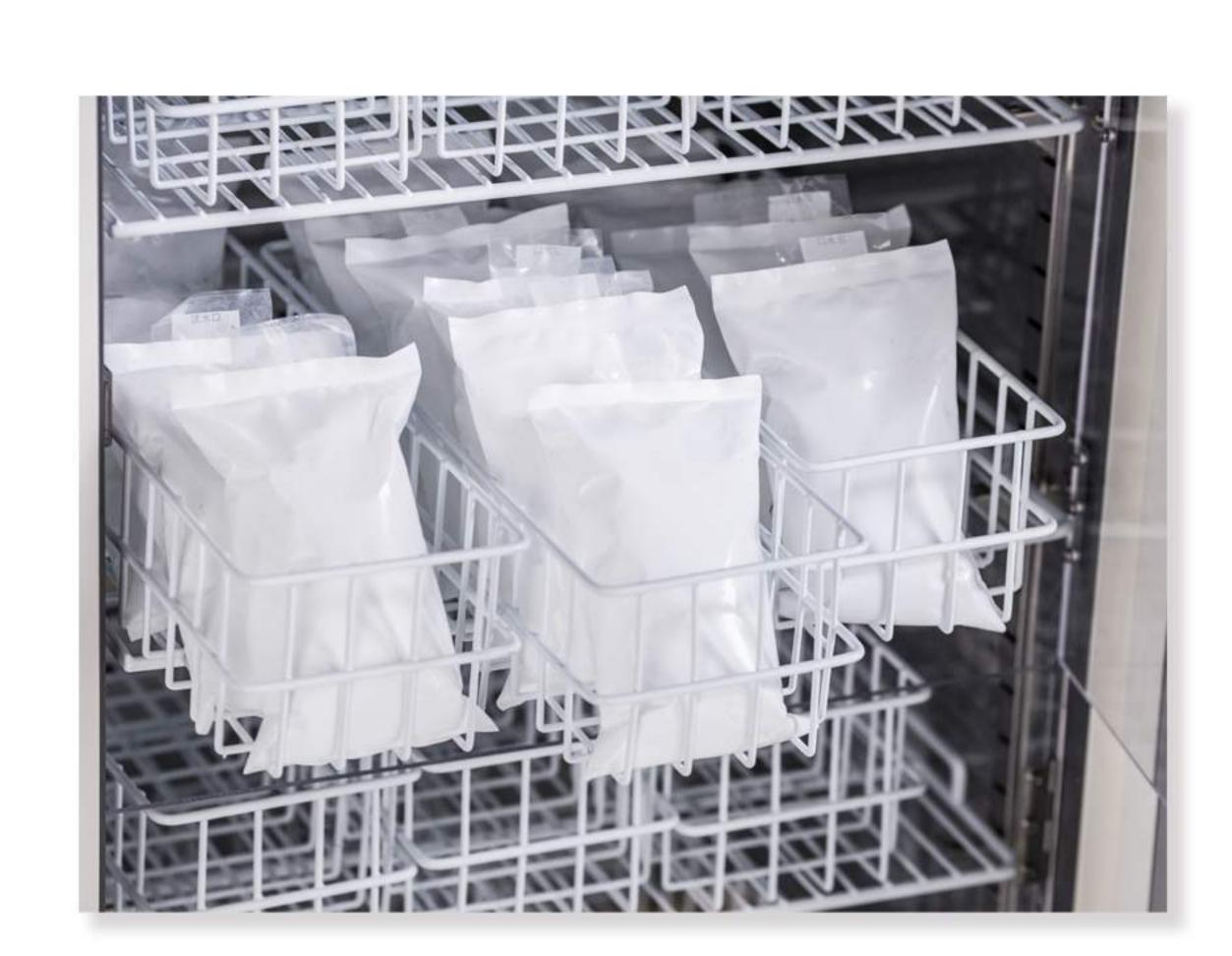
Fan-assisted evaporator and LED lighting



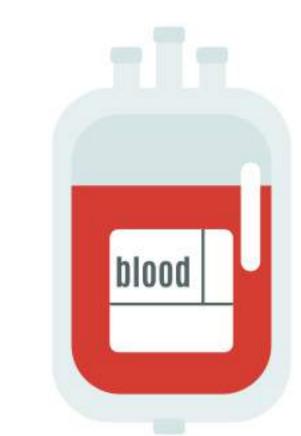
Acrylic inner door design



Thermal printer



Coated wire baskets



78 bags



MBC-4VI08

D06 Controller

- A digital microprocessor temperature controller with LED display and built-in alarm back up power.
- The precision of display and control is 0.1°C.
- Factory pre-set to 4°C for blood bank refrigerators.
- Alarms: High/low temperature, power failure, sensor error and door ajar.
- Extensions: Remote alarm interface.

>>> High quality materials

The units are made of high-quality coated cold-rolled steel exterior and stainless steel interior, anti-corrosive, and easy to clean.

>>> Glycerine box inside

Glycerine boxes are used to simulate the actual temperature of the blood. The temperature sensor detects the temperature of the glycerin, so that the controller drives the cooling system to ensure optimal temperature stability of the chamber.

>>> Lockable cabinets

The unit standard equipped with a built-in lock for each door, provides a secure storage space for your preservations.



Glycerine box with sensor inside

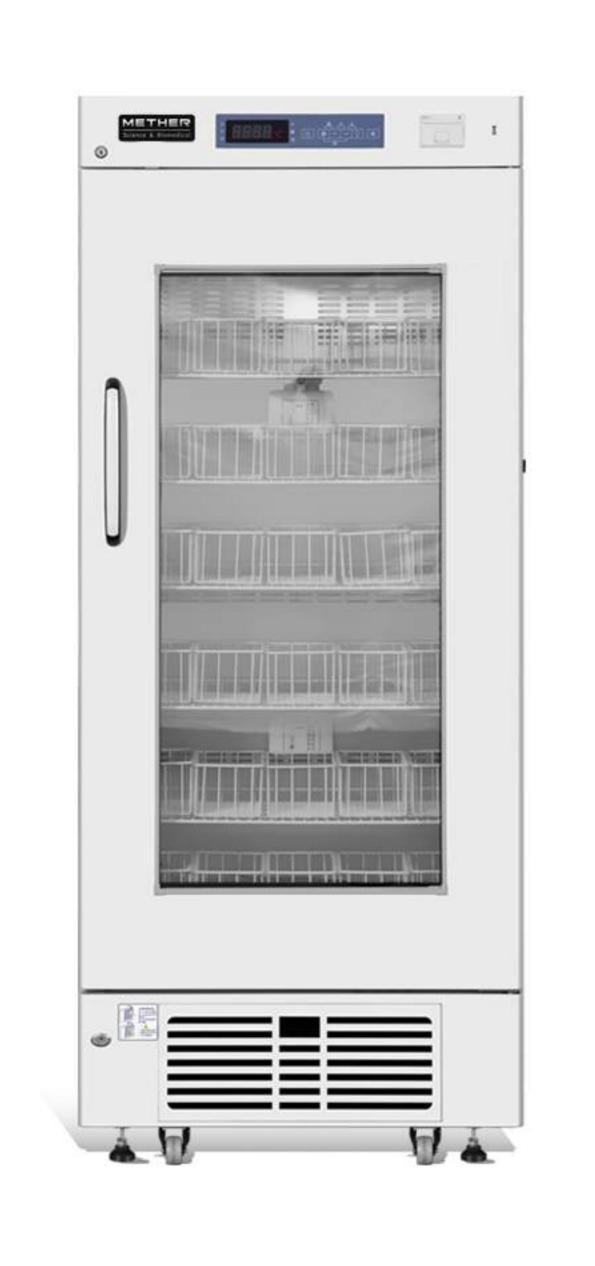


Access port

SPECIFICATION SHEET











Model	MBC-4V108	MBC-4V208	MBC-4V368	MBC-4V658	MBC-4V1008
Shelf/drawer	Shelves/2	Shelves/4	Shelves/6	Shelves/12	Drawers/12
Cooling	Forced -air Cooling	Forced -air Cooling	Forced -air Cooling	Forced -air Cooling	Forced -air Cooling
Defrost	Auto	Auto	Auto	Auto	Auto
Refrigerant Type	R134a	R134a	R134a	R290	R134a
Refrigerant Weight(g)	60	96	152	120	410
Power consumption(kWh/24h)	2.11	2.48	4.5	5.98	7
Noise (db)	49.6dB(A)	51.2dB(A)	51.2 dB(A)	51.2 dB(A)	53.6 dB(A)
Ambient temperature (*C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Temperature range (*C)	4±1°C	4±1°C	4±1°C	4±1°C	4±1°C
Compressor brand/QTY	EMBRACO/1	EMBRACO/1	EMBRACO/1	SECOP/1	SECOP/1
Sensor	NTC	NTC	NTC	NTC	NTC
Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	Digital display	Digital display	Digital display	Digital display	Digital display
Voltage/frequency (V/Hz)	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz
Power (W)	168	194	355	391	415
Current (A)	1.2	1.31	2.31	2.1	2.25
Inside material	Stainless steel				
Outside material	Spray coated steel				
Insulation	PURF	PURF	PURF	PURF	PURF
Capacity (L/cu.ft)	108/3.81	208/7.34	368/12.98	658/23.23	1008/35.59
Bloodbags(400ml)	78	156	360	432	684
Bloodbags(300ml)	96	192	420	540	864
Bloodbags(200ml)	120	240	540	684	1080
NT./GT. (kg)	74/95	96/120	128/160	202/257	265/335
Exterior size(W*D*H)(mm)	522X635X1050	522X635X1550	785×565×1920	1220×635×1885	1220×865×1885
Interior size(W*D*H)(mm)	432*462*478	432*462*978	685×429×1380	1100*454*1325	1100°684°1325
Package size(W*D*H)(mm)	720*612*1070	720*612*1570	890×650×2100	1330*735*2110	1300*960*2130
СВМ	0.4914	0.7	1.2	2.1	2.7
20GP/40GP/40HQ	32/68/68	27/60/60	21/44/44	12/27/27	8/18/18
High/low temperature	Y	Y	Y	Y	Y
Power off	Y	Y	Y	Y	Y
Temperature controller malfunction	Y	Y	Y	Y	Y
Backup battery malfunction	Y	Y	Y	Y	Y
Door ajar	Y	Y	Y	Y	Y
High ambient temperature			Y		
Condenser clean		/	Y		
Remote alarm	Y	Y	Y	Y	Y
Power failure backup system(alarm)	72h	72h	72h	72h	72h
Caster	Y	Y	Y	Y	Y
USB Port	Optional	Optional	Y	Optional	Optional
Outer door/Type	1/Heating & Foam glass door	1/Heating & Foam glass door	1/Heating & Foam glass door	2/Heating & Foam glass door	2/Heating & Foam glass door
Inner door	2	4	6	6	6
Test hole	1/25MM	1/25MM	1/25MM	1/25MM	1/25MM
Thermal Printer	Y	Y	Y	Y	Y
Light	LED	LED	LED	LED	LED
Temperature recorder	Optional Datalooger	Optional Datalooger	Optional Datalooger	Optional chart recorder	Optional chart recorder
Qualifications	ISO9001,ISO13485,ISO14001, CE	ISO9001,ISO13485,ISO14001, CE	ISO9001,ISO13485,ISO14002, CE	ISO9001,ISO13485,ISO14001, CE	ISO9001,ISO13485,ISO14001, CE



OPTIONAL ACCESSORIES



110V power system

Compatibility with 110V power is achieved for the refrigerator by either modifying the compressor or utilizing an additional transformer.



Data Logger (TLOG-100EC)

DLW-100EC is an independent monitoring device that records the realtime temperature and provides the necessary alarmsto protect your preservations.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



Printer

Built-in Dot matrix printer could be provided to record and print the real-time temperatures.



Voltage stabilizer

Stabilize the input voltage of a power source to protect refrigerators from the effects of voltage fluctuations.



4G/Wifi Data Logger (RCW-360P)

A networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or web-based cloud platform.



3Q qualification

Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ).



SS exterior

For customers who need stainless steel materials, there is a special cabinet customization





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