

JE TEMP CONTROL SPECIALIST MEDICAL GRADE























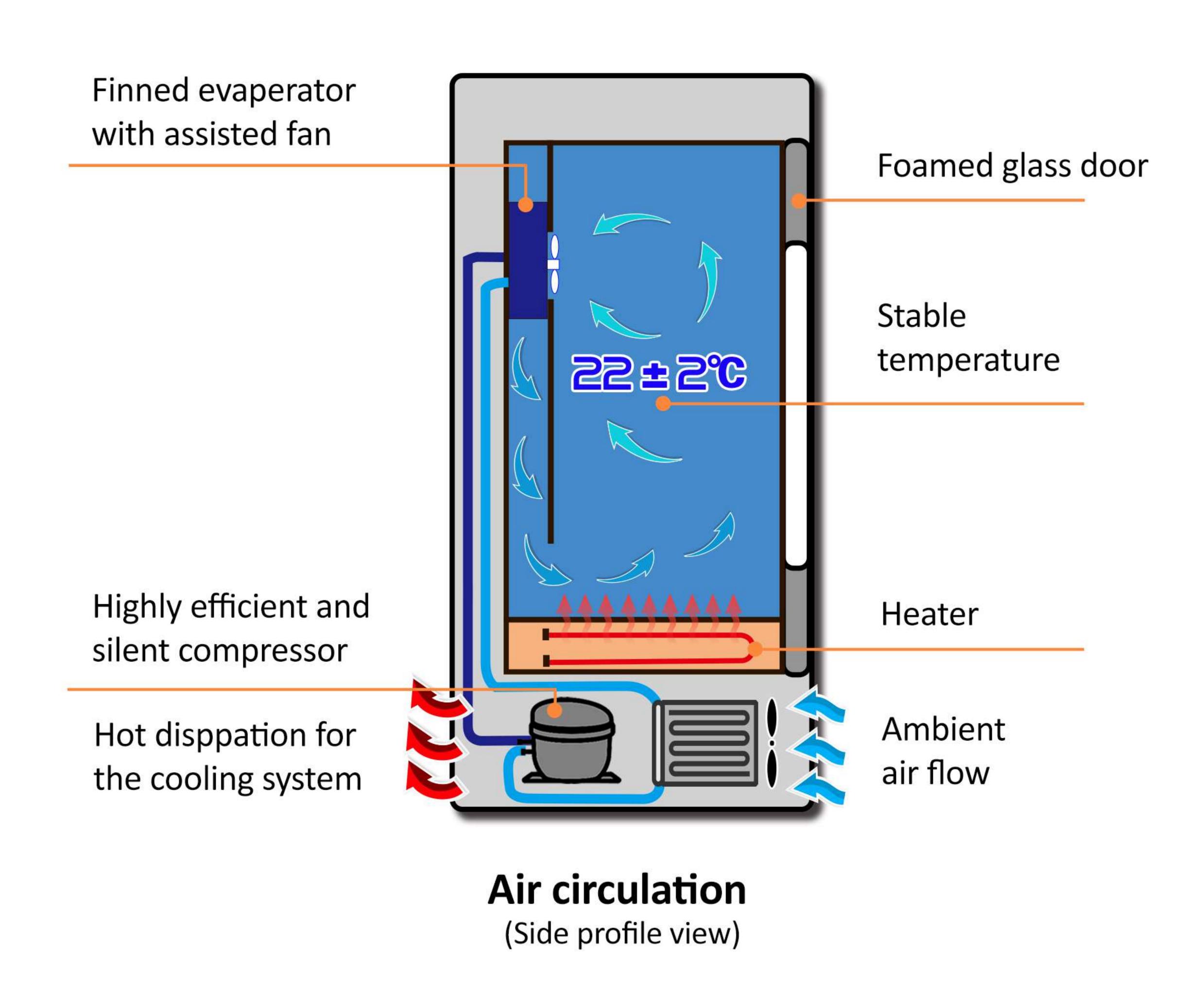
Platelet storage

22°C±2°C

Life-saving platelet products are critical to patient care. The Incubators and Agitators combine innovations in performance, reliability and efficiency to offer optimized platelet storage and support blood bank compliance.



TEMPERATURE CONTROL TECHNOLOGY

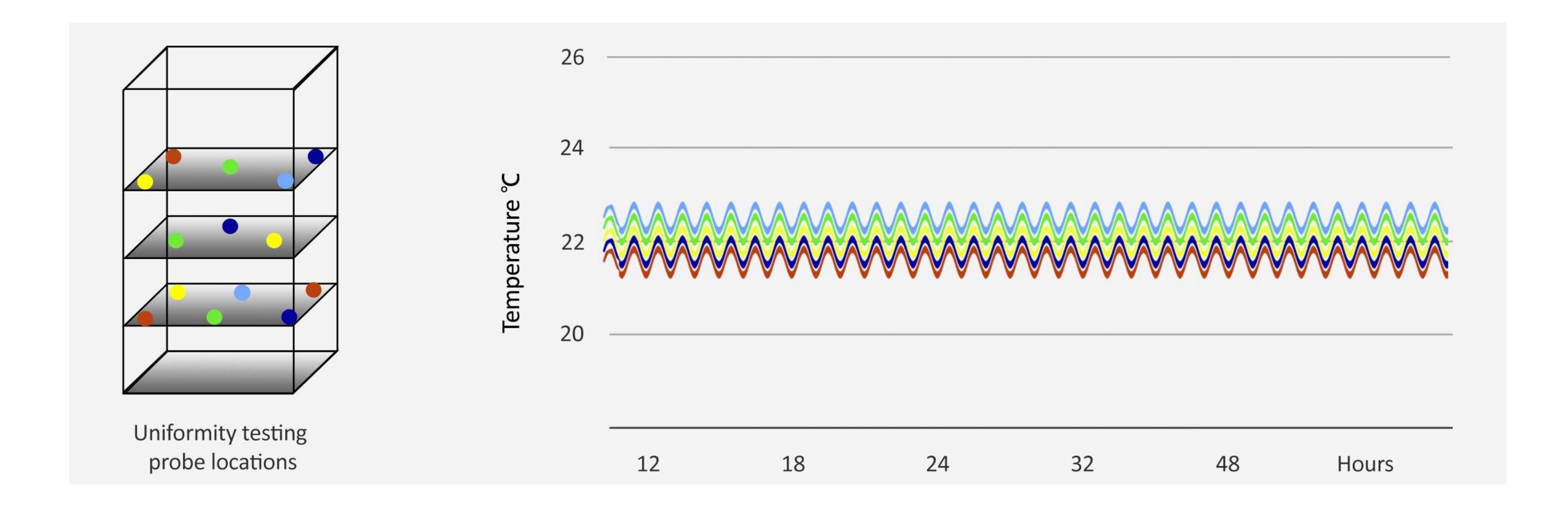


>> Innovative temperature control

The unit features a heating device at the bottom and a refrigeration evaporator at the top. During the cooling process, the cold air sinks, while during the heating process, the hot air rises. This design ensures rapid heating or cooling, regardless of the process involved.

>>> 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 @ 22±2°C, avoiding rapid and significant changes in temperature. This ensures that the stored platelets 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.



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

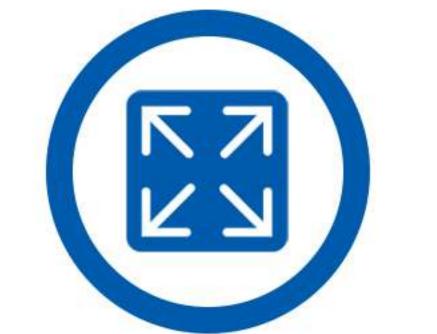
to reduce operating costs, privide a quiet working environment and support sustainability initiatives



MDC-5



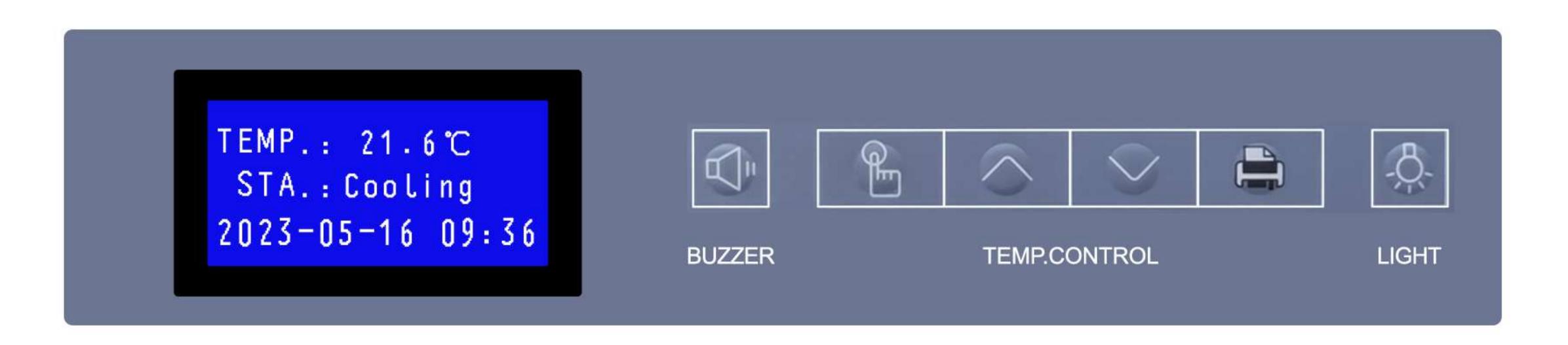
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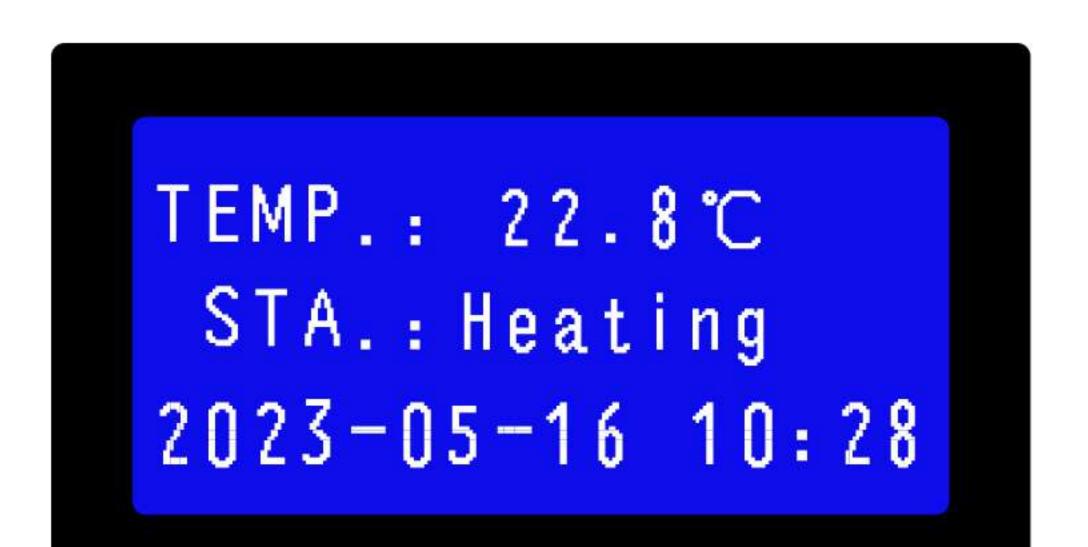


FEATURES

» C309 controller

- A digital microprocessor temperature controller with LCD display and alarm back up power.
- Accurately controlling the cooling or heating process to maintain a constant temperature of 22°C. Temperature setting range: 20°C ~ 24°C.
- The precision of display and control is 0.1°C.
- Alarms: High/low temperature, power failure, sensor error, door ajar, backup battery for 72 hours.
- Extensions: Remote alarm interface





Heating status



Cooling status

Ultimate insulation

The cabinet is insulated with a thick layer of high-density PU foam, effectively sealing and maintaining the internal temperature. The door, constructed with the same insulation material, is equipped with double-layer vacuum glass coated with LOW-E film. This design ensures secure platelet preservation while providing enhanced safety measures.



Foamed glass door

Temperature logging

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals.



Thermal printer

Electrically heated glass door

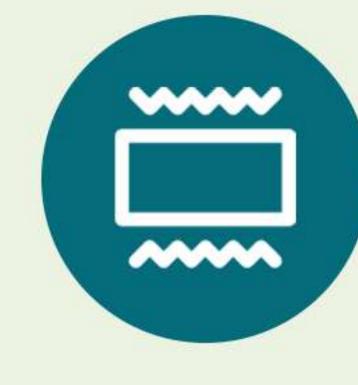
Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



Stainless steel interior

High quality materials

The units feature a high-quality coated cold-rolled steel exterior and stainless steel interior, anti-corrosive, and easy-to-clean properties. The agitator and racks are also constructed with stainless steel, ensuring reliability and hygiene.



Super Durable Agitator

Agitation speed: 60 cycles/minute (CPM)

Horizontal amplitude: 50 mm

Ultra-long lifespan motors

Imported coaxial motors offer numerous advantages such as low heat generation, low power consumption, minimal noise levels, and a high reliability with minimal failures.

Imported SUS 304 stainless steel ball bearing sliders have a small

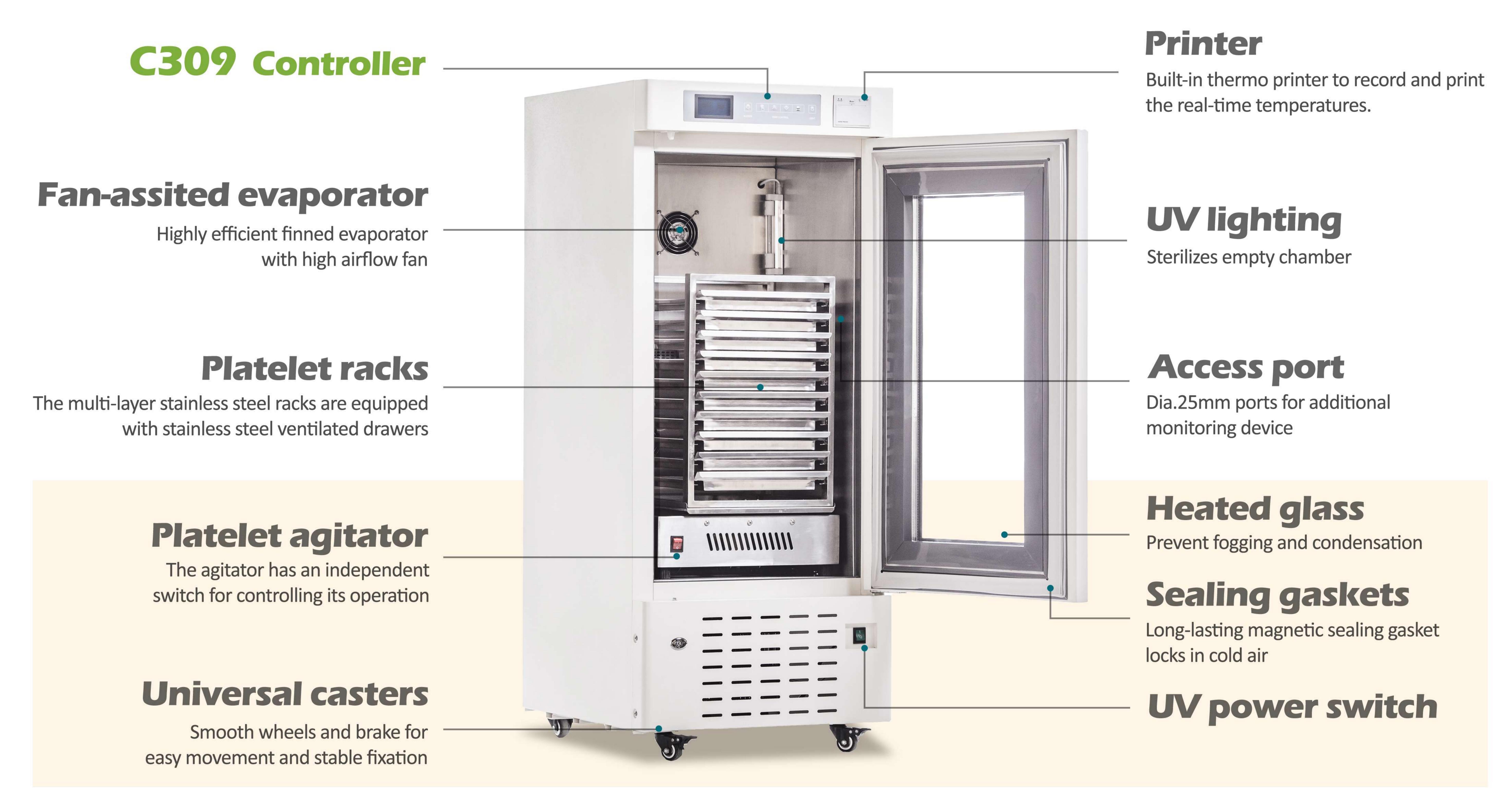
gap, low noise, and can continuously operate with a maximum



load of 50 kg.

Gentel glide rails

© CONSTRUCTION



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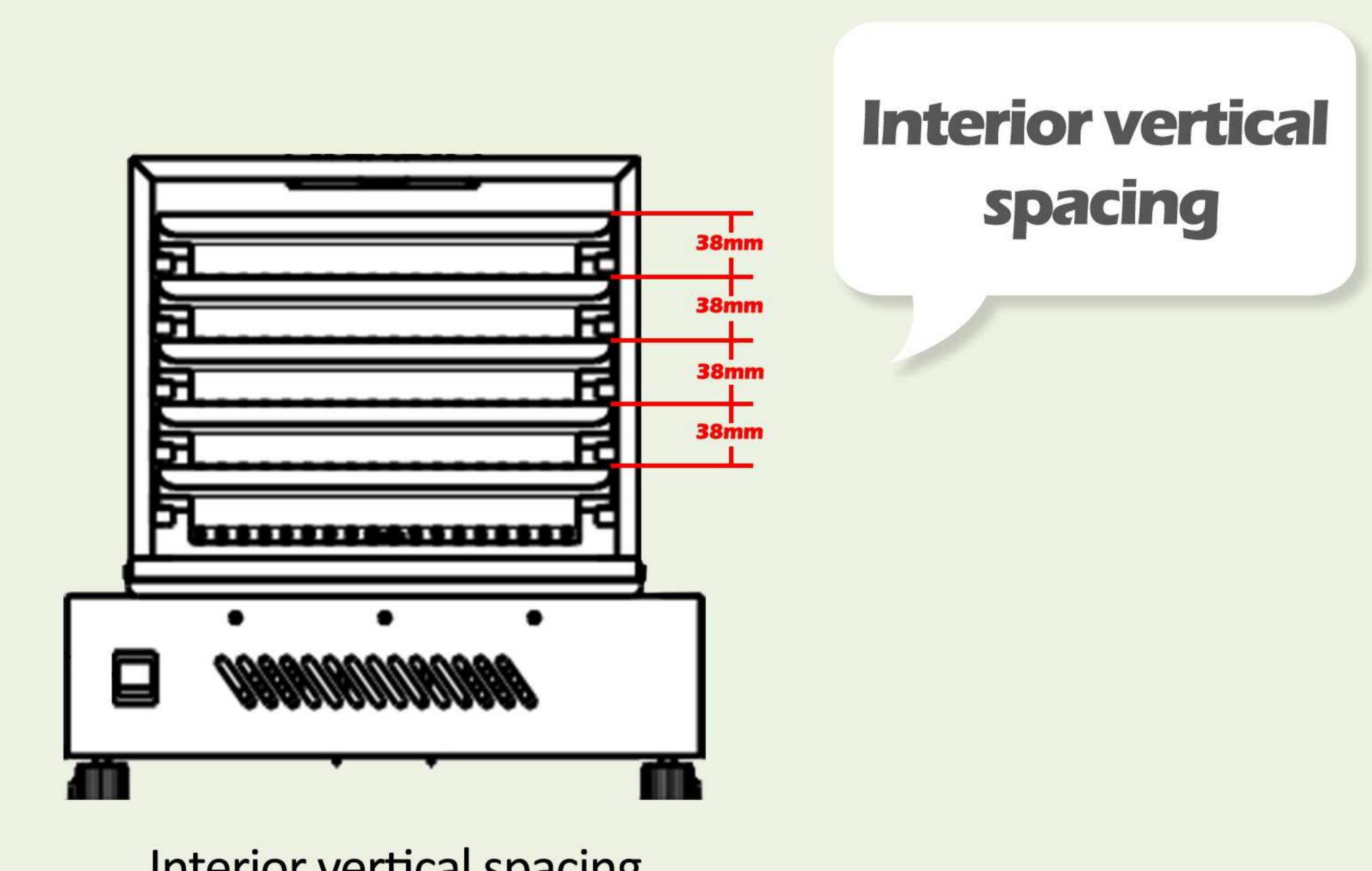


Agitation System

>> System composition

The system consists of an agitator, stainless steel racks, and stainless steel drawers. The stainless steel racks are securely attached to the agitator platform and move in sync with the agitation motion. This design helps maintain platelets in a suspended state, preventing clumping or aggregation.





Interior vertical spacing



Stainless steel racks

The racks are made of high-quality 304 stainless teel and are available in options of 5 layers, 7 layers, 10 layers, and 15 layers. The interor vertical spacing between layers is 38mm.

Stainless steel drawers

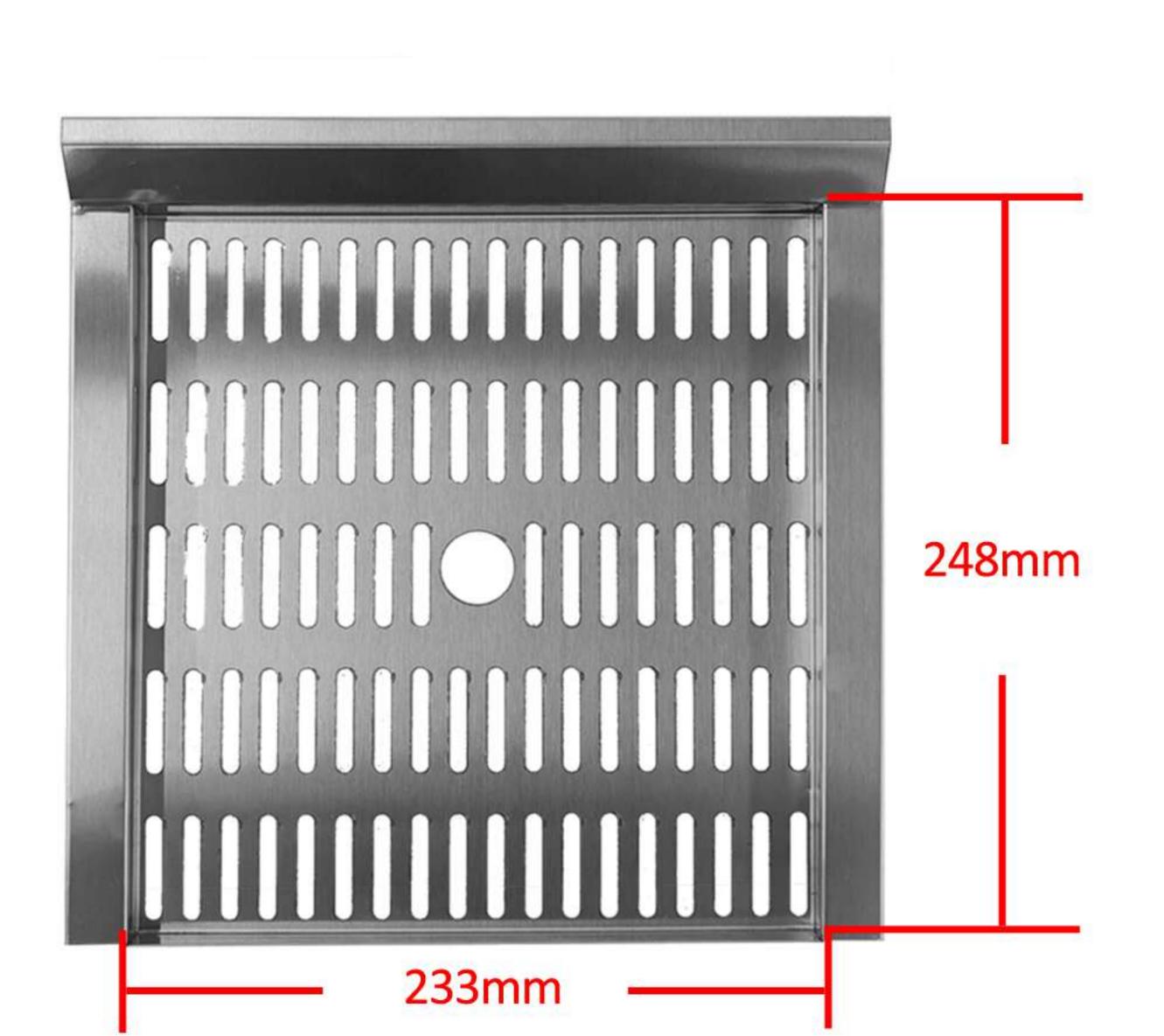
The drawers are constructed from stainless steel and designed with perforations, providing excellent ventilation performance.

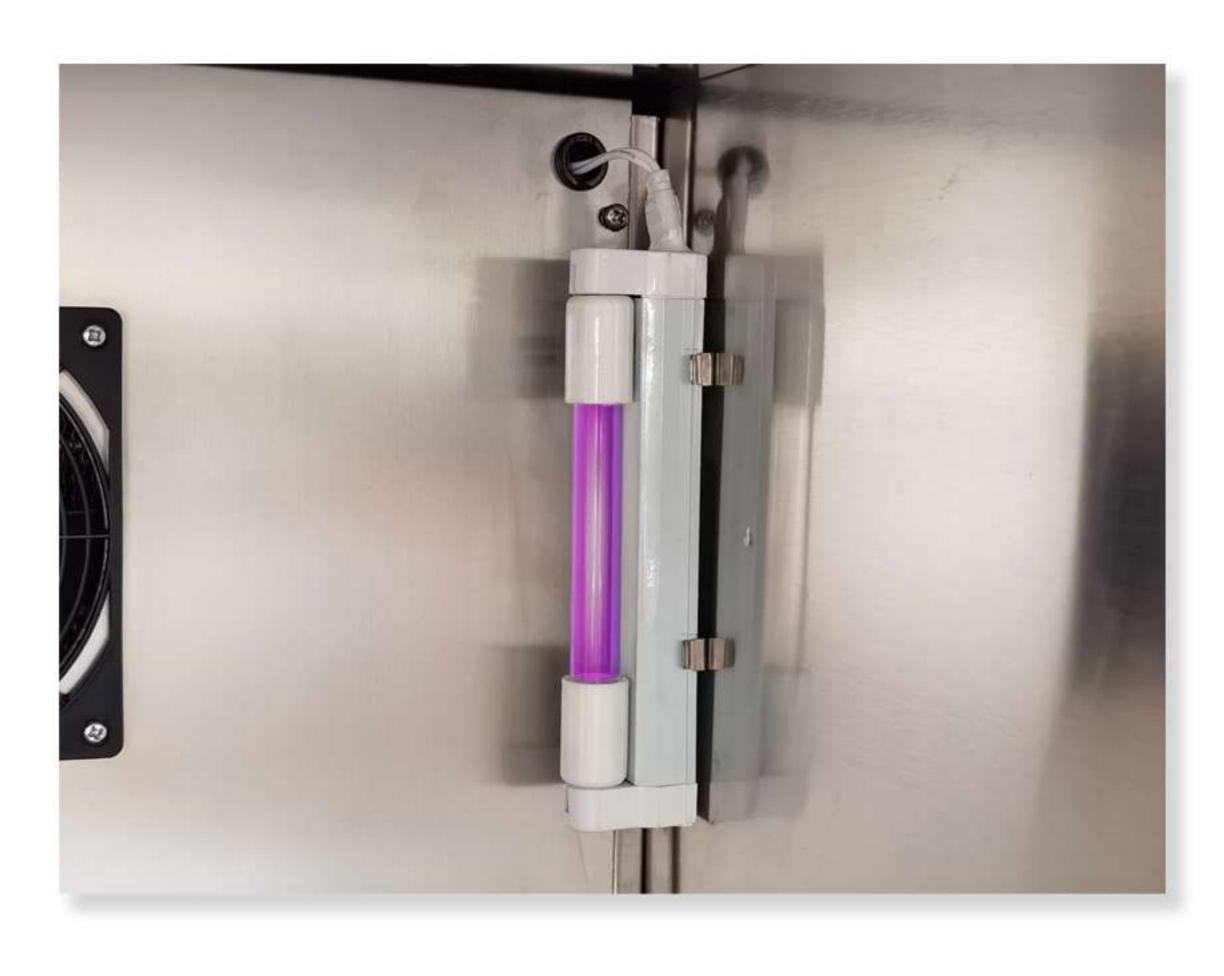
UN sterilization

The incubator is equipped with an ultraviolet germicidal lamp, allowing for comprehensive sterilization of the chamber.

Lockable cabinets

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





UV lighting

OPTIONAL ACCESSORIES



110V power system

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



Voltage stabilizer

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



Data Logger (TLOG-100EC)

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



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.



SS exterior

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



3Q qualification

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

SPECIFICATION SHEET









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System

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Sories

Model	MDC-5	MDC-7	MDC-10	MDC-15
Drawer QTY	5	7	10	15
Cooling system	Forced air	Forced air	Forced air	Forced air
Defrost	Auto	Auto	Auto	Auto
Refrigerant	R134a	R134a	R134a	R134a
Heating system	Electrical heating	Electrical heating	Electrical heating	Electrical heating
Noise(db)	48	48	48	48
Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
Temperature range (°C)	22°C ±2°C	22°C ±2°C	22°C ±2°C	22°C ±2°C
Compressor QTY	1	1	1	1
Sensor	NTC	NTC	NTC	NTC
Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LCD display	LCD display	LCD display	LCD display
Voltage(V)	187~242	187~242	187~242	187~242
Frequency(Hz)	50Hz	50Hz	50Hz	50Hz
Power Consumption(kWh/24h)	2.7	2.7	4.4	4.4
Power (W)	197W	197W	280W	280W
Internal material	Coated steel	Coated steel	Coated steel	Coated steel
External material	SUS 304	SUS 304	SUS 304	SUS 304
Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
Platelet bag(450ml) Qty	10	14	20	30
NT./GT.(kg)	65/87	65/87	85/108.5	85/108.5
Exterior size(W*D*H)(mm)	522×600×1056	522×600×1056	522×600×1305	522×600×1305
Interior size(W*D*H)(mm)	427*360*467	427*360*467	432*462*728	432*462*728
Package size(W*D*H)(mm)	584*707*1177	584*707*1177	584*707*1417	584*707*1417
Shipping CBM	0.5	0.5	0.6	0.6
20GP/40GP/40HQ	24/48/96	24/48/96	24/48/48	24/48/48
High/low temperature	Y	Y	Y	Y
Power failure	Y	Y	Y	Y
Controller failure	Y	Y	Y	Y
Sensor error	Y	Y	Y	Y
Door ajar	Y	Y	Y	Y
Power failure backup	72 hours	72 hours	72 hours	72 hours
Castor	Y	Y	Y	Y
leveling feet	N/A	N/A	Y	N/A
Access port Qty/diameter	1/25mm	1/25mm	1/25mm	1/25mm
USB Interface	Optional	Optional	Optional	Optional
Illumination	UV lamp	UV lamp	UV lamp	UV lamp
Thermol printer	Y	Y	Y	Y
Remote alarm port	Optional	Optional	Optional	Optional
Door type/Qty	Foamed glass/1	Foamed glass/1	Foamed glass/1	Foamed glass/2
Heated glass	Y	Y	Y	Y
Data logger	Optional	Optional	Optional	Optional









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