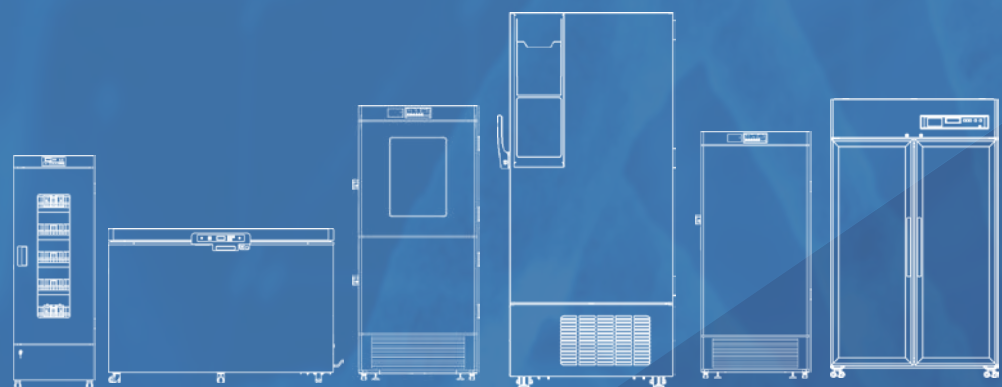




PRODUCT CATALOGUE

Better Science Better Life

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☎ +86 55164317378
✉ overseas.marketing@zkmeiling.com
📍 No.1862 Zishi Road, Hefei, Anhui, 230601, China





Since **2002**

A Global Leader in Biomedical Refrigeration Solutions



Meling Biomedical – “Preserving Life with Advanced Science”

Meling Biomedical, a core subsidiary of Changhong Group—China’s leading home appliance and technology conglomerate—has been dedicated to the research, design, manufacturing, and global distribution of cryogenic and biomedical storage solutions since its founding in 2002. Leveraging Changhong Group’s deep-rooted manufacturing legacy and cutting-edge innovation platform (established in 1958 and headquartered in Mianyang, Sichuan), Meling Biomedical integrates advanced refrigeration technologies with the evolving needs of the life sciences. This synergy has enabled the company to develop a diverse, high-performance product portfolio that meets the demanding requirements of biomedical laboratories, research institutions, healthcare providers, and public health systems worldwide.

Capital Market Recognition

A major milestone in the company’s growth came in 2022 with its successful listing on the Beijing Stock Exchange (BSE). This achievement established Meling Biomedical as the first BSE-listed company in Anhui Province, while also setting a record for speed: the listing process was completed in just 111 days, with review approval granted within only 37 days. These milestones reflect the company’s operational excellence, robust governance, and strong market confidence.

Innovation-Driven Excellence

Over two decades, Meling Biomedical has cultivated a world-class R&D team responsible for nearly 500 proprietary scientific innovations, including both invention and utility model patents. One standout achievement is the nationally awarded “New Mixed Working Medium Throttling Refrigeration Technology and Its Application,” which earned the Second Prize for National Technical Invention and First Prize from the China Refrigeration Society—affirming the company's leadership in refrigeration science and engineering.



Comprehensive, Intelligent Solutions

With a strong commitment to user-centric innovation, Meling Biomedical offers customized, intelligent solutions across multiple fields:

- Biobanks & Sample Storage
- Blood Safety & Vaccine Preservation
- Pharmaceutical Cold Chain
- IoT-Enabled LN2 Storage Systems
- Secure Laboratory & Research Facility Storage

These solutions are engineered with a focus on safety, reliability, and environmental sustainability. Meling products are used globally in hospitals, CDCs, academic institutions, public health facilities, scientific laboratories, genetic engineering centers, and the animal health sector.

Advanced Infrastructure & Global Reach

Meling’s R&D facility covers over 5,000 square meters, with manufacturing and testing facilities spanning more than 85,000 square meters. These include fully automated low-temperature equipment production lines, type laboratories, and a comprehensive testing and pilot-scale workshop. Combined with a full-service global support infrastructure and international certifications, Meling products are now exported to over 90 countries across Europe, the Americas, Asia-Pacific, the Middle East, and Africa.

Looking Ahead

Meling Biomedical remains firmly committed to continuous product innovation, expansion of category offerings, and sustainable development. With a strategic focus on green technologies, energy-efficient designs, and diversified global trade models, the company aims to make a lasting contribution to human health and environmental protection.

Meling Biomedical – “Preserving Life with Advanced Science”.

We are committed to becoming the global leader in customized biomedical system solutions.

40 yrs. Cryogenic Technology 85000 sq.m. R&D Center 5000 sq.m. Industrial Plant



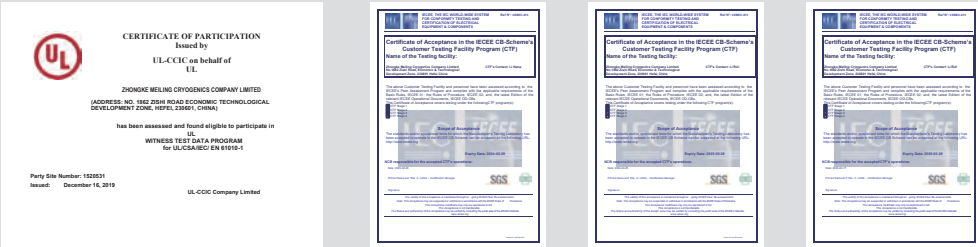
PRODUCTION



TESTING



CERTIFICATION



PRODUCT DEVELOPMENT JOURNEY
—From First Generation to Today

2002 2003 2006 2008 2009 2014 2016 2020 2023 2025 2026



Founded in 2002, Meling launched its first ULT freezer, the DW-FW251.



First-Generation ULT Freezer Launched



-152°C DW-UW128 and DW-UW258 Officially Launched



ULT Freezer Product Series Established



-164 °C Milestone Achieved with the Introduction of DW-ZW128



ULT Freezer Product Series Established



Second-Generation Target Cooling Technology Introduced



Third-Generation ULT Dual-System Technology Introduced



Expansion into Centrifuge and Biosafety Cabinet Solutions

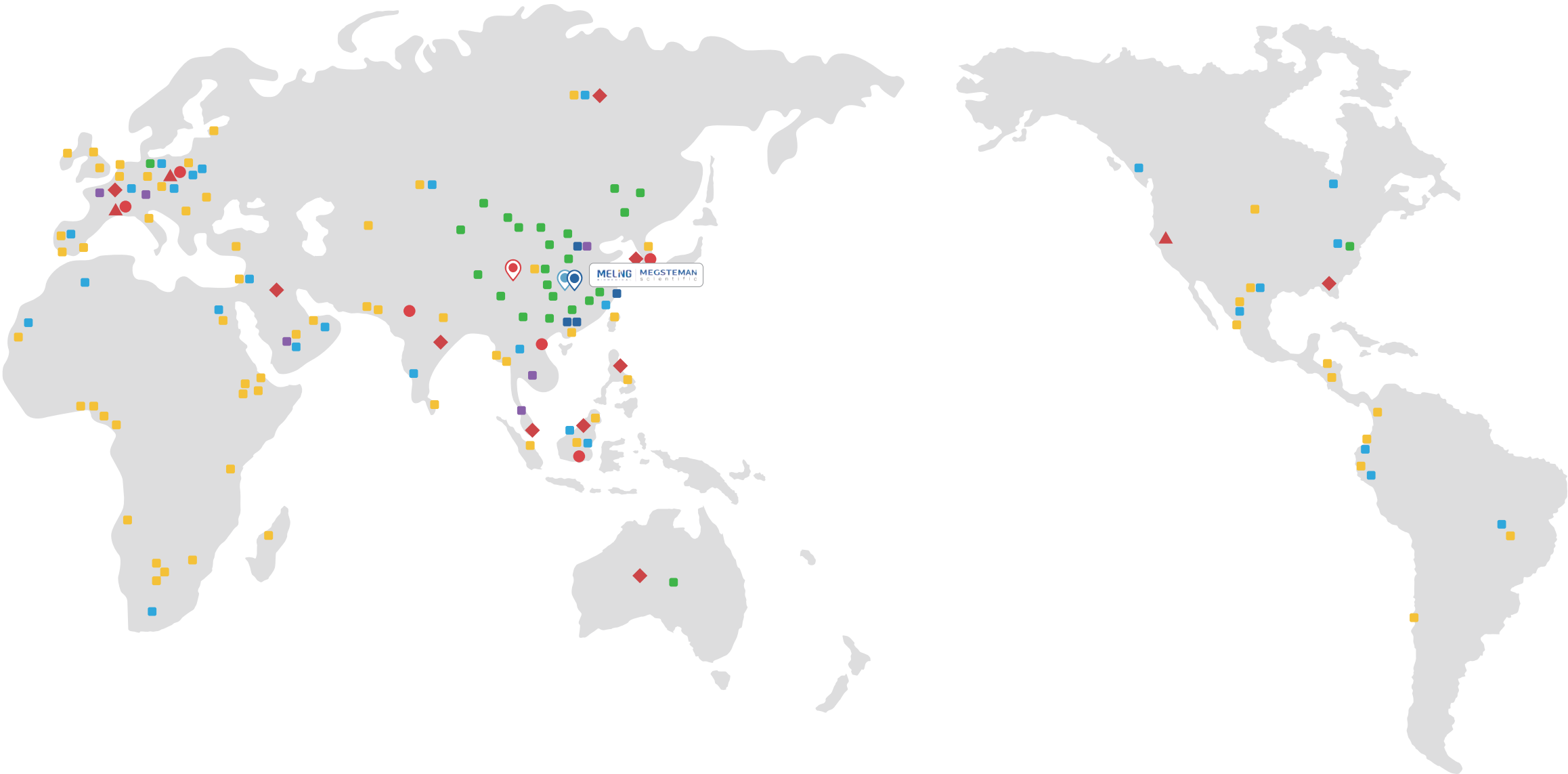


Introduction of Air-Cooled ULT Freezer and Liquid Nitrogen Storage Solutions



· Explosion-Proof Refrigerator Launched
· -86 °C Dual-Cooling ULT Freezer Introduced
· WHO PQS-Certified Performance Refrigerator Launched

Global Partnerships



- Meling Biomedical
- Changhong Meling
- Changhong Group
- Changhong Overseas Base
- Changhong Overseas R&D Center
- Changhong Overseas Subsidiary

Meling Biomedical :

- 40 Years Cryogenic Technology
- 460 Patents
- 5000m² R&D Center
- 85,000m² Industrial Plant
- Warehouse
- Distribution
- Service Location
- Office
- Dealer

Key Projects Delivered

2019 | Major Projects

- Ministry of Health, South Africa
- National Kidney Foundation, Singapore
- Andhra Pradesh Medical Infrastructure Development Corporation (APMIDC), India

2020 | Major Projects

- National Biobank Project, China
- Nishtar Medical University, Multan, Pakistan
- Ministry of Health, Uzbekistan
- Maharashtra State Government Hospitals, India
- Turkish Red Crescent, Türkiye
- Uttar Pradesh Medical Supplies Corporation Limited (UPMSCL), India

2012 | Major Projects

- Ministry of Health, South Africa
- National Kidney Foundation, Singapore
- Andhra Pradesh Medical Infrastructure Development Corporation (APMIDC), India
- Emergency Forces Hospital, Saudi Arabia

2023 | Major Projects

- United Nations, Belarus
- National Social Health Insurance (EsSalud), Peru – Hospitals in 21 Urban Areas
- Sevilla Rodríguez Hospitals, Peru
- Ministry of Home Affairs, Tanzania
- National Centers for Disease Control and Health Care Training, Myanmar
- Medical University of Brasov, Romania
- Institute for Animal Prevention and Experimentation, Italy
- United Nations, Tajikistan
- Pfizer Vaccine Storage Facilities, Germany

2024 | Major Projects

- Medicines and Health Products Agency in Germany
- AKH Vienna (Vienna General Hospital), Austria
- ISMETT – Institute for Nursing and Research, Italy
- Nanyang Technological University, Singapore
- Ministry of Health, Azerbaijan
- General Inspectorate of Police, Moldova

2025 | Major Projects

- Awarded the contract project in Malaysia
- Awarded the contract project in Peru
- Awarded the contract project in Mexico
- Awarded the project tender via collaboration in Ethiopia
- Awarded the project in Cameroon with a Chinese company.

CONTENT



PRESERVATION

-150°C Cryogenic Freezer

-86 °C ULT Freezer

TwinVault Frequency Conversion ULT Freezer
Cascade Frequency Conversion ULT Freezer
TwinCore ULT Freezer
Twinshield ULT Freezer
SoloShield ULT Freezer
Chest ULT Freezer
Undercounter ULT Freezer

PHARMACY REFRIGERATOR

2~8°C Pharmacy Refrigerator

Undercounter Pharmacy Refrigerator
Digital Control Pharmacy Refrigerator
Touch Control Pharmacy Refrigerator

Vaccine Storage(WHO-PQS)

Ice-lined Refrigerator
Solar Direct Drive Refrigerator

BLOOD BANK SOLUTION

4°C Blood Bank Refrigerator

4 °C LED Blood Bank Refrigerator
4 °C LCD Blood Bank Refrigerator

Comb Refrigerator and Freezer

2~8°C/-10~-26°C Combined Refrigerator and Freezer
2~8°C/-20~-40°C Combined Refrigerator and Freezer

Biomedical Freezer

-25°C Biomedical Freezer
-30°C Biomedical Freezer
-40°C ULT freezer
-40°C Forcerd Air Circulation freezer

CENTRIFUGE

Multipurpose Refrigerated Centrifuge

High-speed Refrigerated Centrifuge

Micro-refrigerated High-speed Centrifuge

Large Capacity High-speed Refrigerated Centrifuge

Low-speed Refrigerated Centrifuge

Benchtop Low-speed Centrifuge

LN2 STORAGE

Biobank Series

Semi automatic Series

Laboratory Series

Portable Series

Transportation Series

BIOSAFETY CABINET

Biosafety Cabinet

Clean Bench

-150 °C Cryogenic Freezer



-150 °C Cryogenic Freezer

The -150°C cryogenic freezer is engineered for ultra-low temperature applications in scientific research and long-term biological preservation. It provides a stable, high-performance alternative to traditional liquid nitrogen (LN2) storage systems.

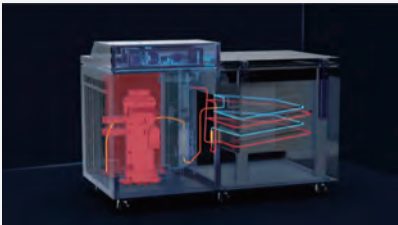
Key Applications:

- Preservation of cells, DNA, bone tissue, bacteria, and other sensitive biological materials
- Low-temperature scientific experiments
- Biobanking and long-term sample storage

This system eliminates the need for LN2 refilling, ensuring a safer and more user-friendly cryogenic storage solution for modern laboratories.



Key Features



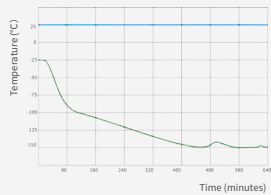
Reliable System Performance

- **Centralized Pressure Regulation Technology**
Automatically adjusts pressure at critical points to maintain system stability and ensure optimal performance.
- **Cold Recycling Technology**
Utilizes efficient heat transfer to return refrigerant to near-normal temperature before re-entering the compressor. This minimizes temperature shock to the compressor, enhancing its safety, reliability, and longevity.



Superior Thermal Insulation

- **Advanced Multi-Layer Foaming Process**
Incorporates high-hardness, high-density insulation materials to deliver exceptional thermal stability across extreme temperature ranges.
- **Enhanced Insulation Efficiency**
Offers 25% better insulation than conventional freezers, ensuring consistent internal temperatures and improving long-term energy efficiency and sample protection.



Fast Cooling Performance

- **Patented Single-Stage Auto-Cascade Refrigeration Technology**
Rapid pull-down capability reaches -145°C from ambient in less than 5 hours, ensuring quick readiness for sample storage.



Advanced Data Interface & Connectivity

- **Remote Alarm Contact**
Volt-free relay for external connection to building or facility alarm systems.
- **RS485 Port with MODBUS Protocol**
Enables centralized monitoring and documentation of temperature profiles and alarm events via BMS or laboratory information systems.



User-Friendly Touchscreen Interface

- **10-inch LCD Touchscreen**
Displays real-time data including setpoint, current temperature, ambient temperature, time, and date.
 - Graphical interface for easy temperature tracking
 - Event logs for alarms and system status
- **Data Logging & USB Export**
Equipped with long-term data memory that stores up to 10 years of operational data. Logs include min/max temperatures, event timestamps, and durations, which can be exported via USB for audit or compliance needs.



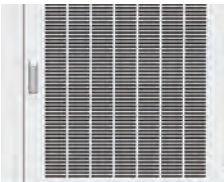
Comprehensive Alarm & Safety System

- **Microprocessor-Based Control**
multi-level alarms for:
 - High/low temperature deviations
 - Sensor malfunctions
 - Power supply faults
- **Built-in Backup Battery**
In case of power failure, the integrated battery maintains controller functionality and alarm notifications, ensuring uninterrupted protection.



Anti-Corrosion Interior for Hygiene & Durability

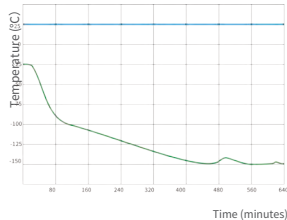
- **Rust-Proof Stainless-Steel Interior & Shelves**
Designed for cleanroom, laboratory, and clinical settings where hygiene is critical. Easy to clean, durable, and resistant to chemical corrosion.



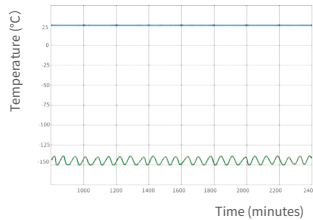
Easy Maintenance & Access

- **Front Cover with Key Lock**
User-friendly design with secure locking.
- **Tool-Free Removable Filter**
Simplifies maintenance and promotes consistent airflow and cooling efficiency.

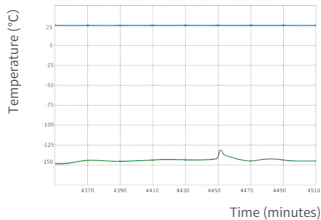
Temperature Mapping



Pull down



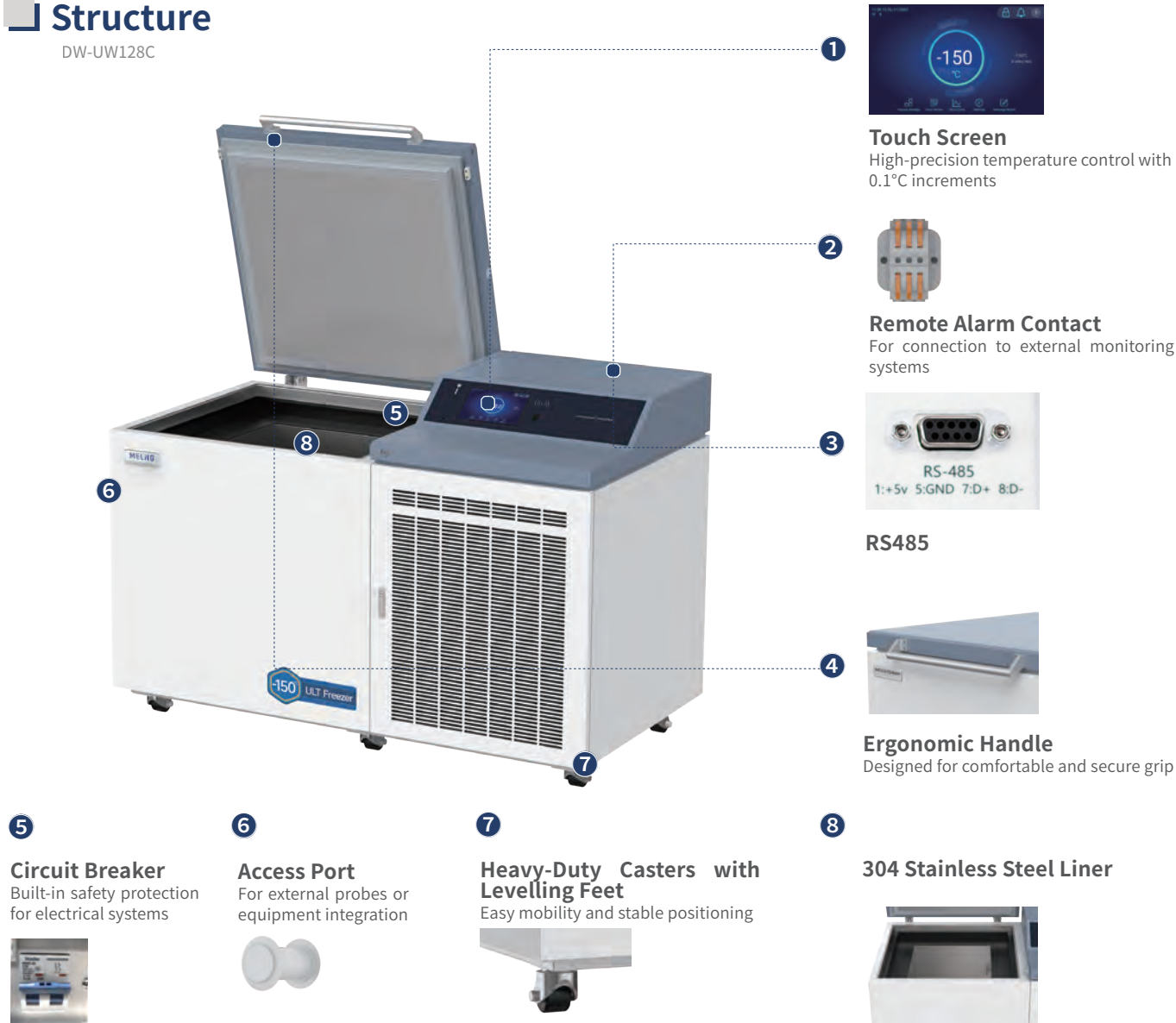
Stable running



Door open recovery

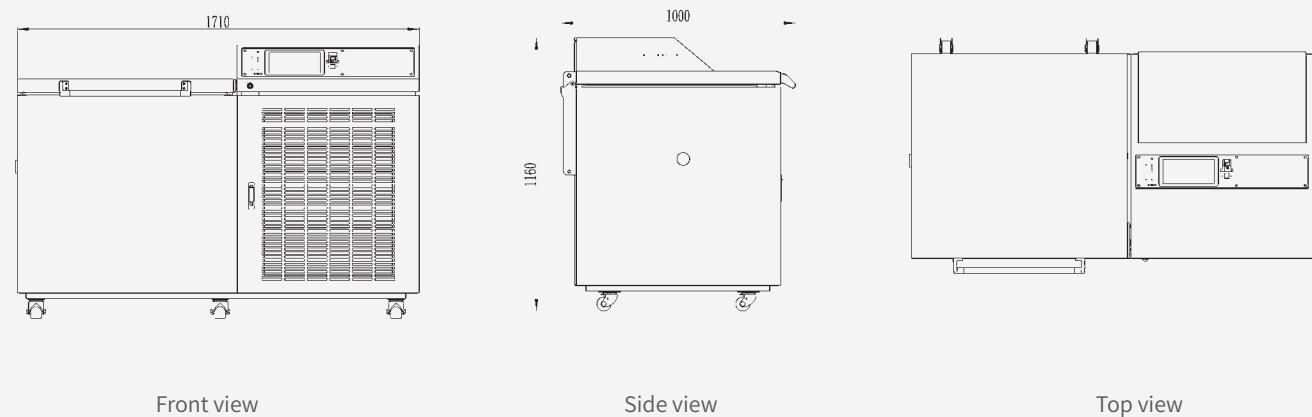
Structure

DW-UW128C



Product Dimensions

DW-UW128C



Specifications



-150 °C Cryogenic Freezer	
Model	DW-UW128C
Capacity(L)	128
Temperature range (°C)	-110~-150°C
Ambient temperature(°C)	16~32°C
Climate Class	N
Internal dimensions (W x D x H mm)	510*460*540
External dimensions (W x D x H mm)	1710*1000*1160
Net/Gross Weight(kg)	388/530
Refrigeration system	
Cooling method	Direct cooling
Defrost method	Manual
Refrigerant	Mix
Compressor	1pc
Insulation material	VIP+PU
Insulation thickness(mm)	D:100 L/R:200 B:200
Control system	
Controller	Microprocessor
Display	Touch screen
Display increment	0.1°C
Access method	Password
Alarms	High/Low temperature, Power failure, low battery, Sensor failure, communication error door ajar, Condenser overheating alarm, recorder not connected/not activated alarm, battery power detection failure
Alarm mode	Audible, Visual and Remote alarm
Backup battery	Yes
Sensor	PT1000/NTC
Construction	
External material	Cold rolled steel
Internal material	Stainless steel
Shelves/drawers	/
Shelf material	/
Shelf capacity	/
Access port	1pc. 40mm
Lock with key	Yes
Castor/feet	4/0
Data logging & external connection	
USB interface	Yes
Remote alarm contact	Yes
RS485	Yes
Electrical Data	
Power supply(V,Hz)	220/50
Power(W)	4400
Rated Current(A)	27.6
Energy consumption(kWh/24h) :	66.29
Noise dB(A)	66.5
Options	Printer, fingerprint card access method
Certification	/

-86 °C ULT Freezer

TwinVault Frequency Conversion ULT Freezer

Cascade Frequency Conversion ULT Freezer

TwinCore ULT Freezer

Twinshield ULT Freezer

SoloShield ULT Freezer

Chest ULT Freezer

Undercounter ULT Freezer



TwinVault

-86°C Frequency Conversion ULT Freezer



The TwinVault -86°C Ultra-Low Temperature Freezer features two independent refrigeration systems working in tandem to deliver maximum sample protection. Each independent refrigeration system ensures the freezer temperature remains at -80°C.

Core Advantages

0.54 Hrs

Door open recovery

4.3 Hrs

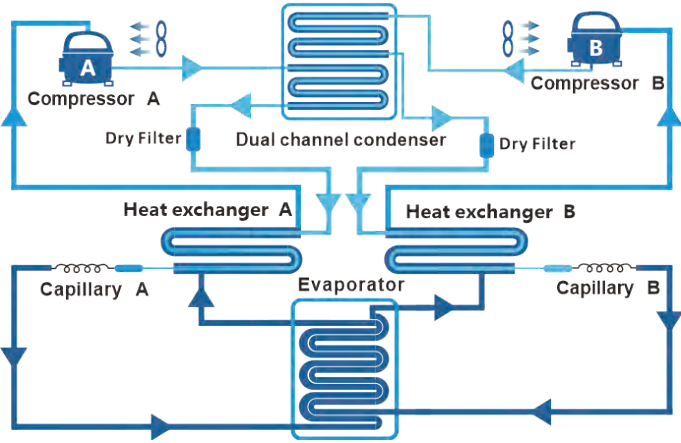
*Pulling down to -80°C

7.3 Kwh

Daily consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory.

Refrigeration Diagram

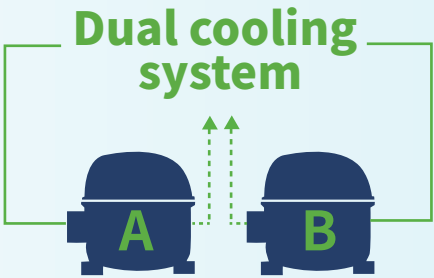


Each refrigeration system consists of a compressor, condenser, filter drier, capillary tube and evaporator. Due to the two independent refrigeration systems, energy can be distributed as needed. Each independent refrigeration system ensures the freezer temperature remains at -80°C.

Key Features

Dual Safeguard

The advanced dual cooling design includes two independent compressors to ensure reliable -86°C operation. Each independent refrigeration system ensures the freezer temperature remains at -80°C, providing critical protection for sensitive biological samples.

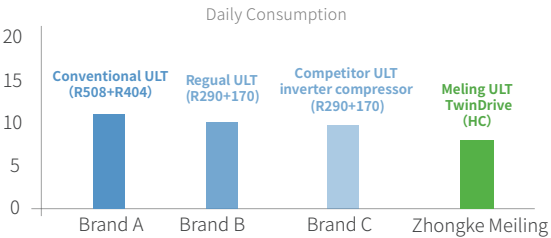
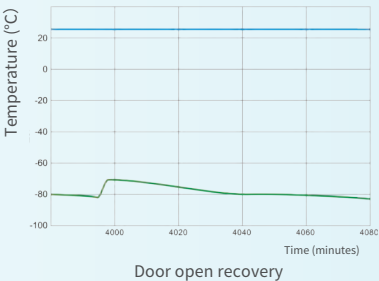


Environmentally Friendly

Utilizes eco-friendly hydrocarbon refrigerants compliant with the U.S. SNAP program and EU Regulation (EU_517/2014). Foaming agents used in manufacturing are environmentally controlled.

High Performance

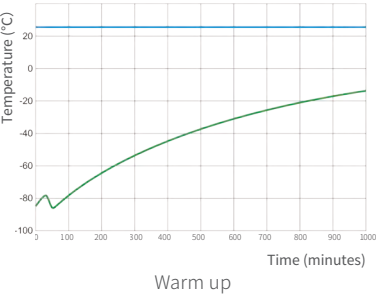
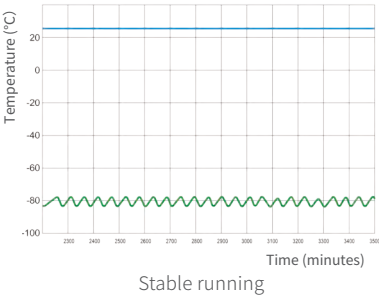
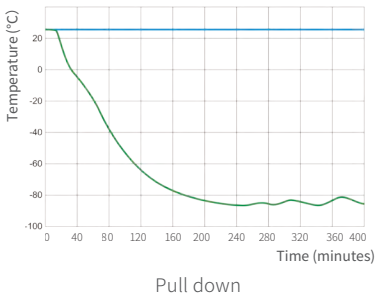
A microprocessor responds to frequent or prolonged door openings by increasing compressor speed, ensuring rapid temperature recovery and sample integrity.



Energy Efficient

Inverter compressor technology automatically adjusts speed based on demand. During normal operation, it runs longer at lower speeds to conserve energy and stabilize temperature. ENERGY STAR™ certified for high efficiency.

Temperature Mapping



Additional Features



1



10-inch LCD touch screen with smart settings and monitoring

Optional access control via card, fingerprint, or electronic lock

2



Insulated inner doors for improved thermal retention

3



Ergonomic handle with built-in door lock

4



Heated vacuum relief port

5

Circuit breaker for electrical safety



6

25 mm access port for data logging or external monitoring



7

Heavy-duty castors with levelling feet

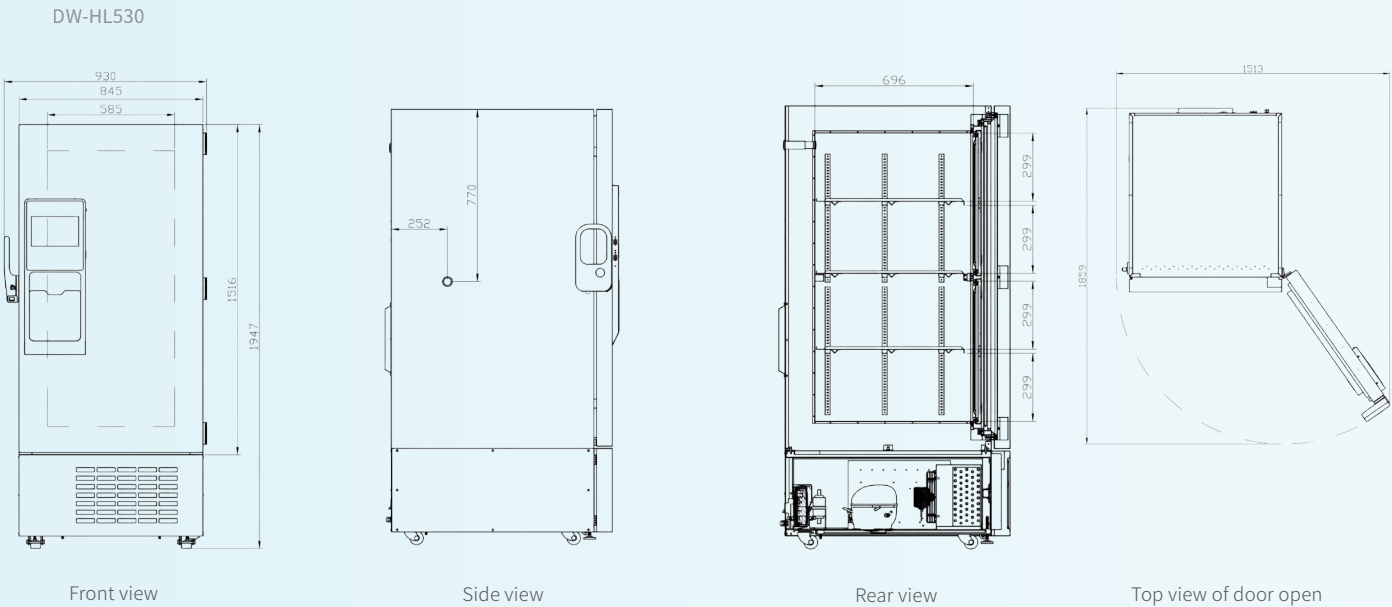


8

Interior chamber made of corrosion-resistant 304 stainless steel



Product Dimensions



Key Features



-86°C TwinDrive Frequency Conversion ULT Freezer		
Model	DW-HL530	
Capacity(L)	530	
Temperature range (°C)	-40~-86°C	
Ambient temperature(°C)	16~32°C	
Climate class	N	
Internal dimensions (W x D x H mm)	585*696*1266	
External dimensions (W x D x H mm)	930*1041*1947	
Net/Gross Weight(kg)	276/365 (wood packing)	
Refrigeration system		
Cooling method	Direct cooling	
Defrost method	Manual	
Refrigerant	HC	
Compressor	2pcs	
Insulation material	VIP + Polyurethane	
Insulation thickness(mm)	D:117 L/R:130 B:130	D:100 L/R:130 B:130
Control system		
Controller	Microprocessor	
Display	10"HD intelligent touch screen	
Display increment	0.1°C	
Access method	Password,fingerprint&card optional	
Alarms	High/low temperature, high ambient temperature, power failure, low battery, battery power detection failure, sensor failure, communication error, door ajar,system failure	
Alarm mode	Audible, Visual and Remote alarm	
Backup battery	Yes	
Sensor	PT1000/NTC	
Construction		
External material	Cold rolled steel	
Internal material	Stainless steel	
Sub lids/inner doors(pcs)	2 (optional 4)	
Shelves	3	
Shelf material	Stainless steel	
Shelf capacity	38kg	56kg
Vacuum release port	Yes	
Access port	2pcs. 25mm	3pcs. 25mm
Lock with key	Yes	
Castor/feet	4+ (2 leveling feet)	
Data logging & external connection		
USB interface	Yes	
Remote alarm contact	Yes	
RS485	Yes	
Electrical Data		
Power supply(V,HZ)	110-230/50-60	110-230/50-60
Rated power(W)	900	950
Rated current(A)	13.42	14.83
Energy consumption(kWh/24h)	7.3	8.5
Others		
Noise dB(A)	53.1	51.6
Options	Fingerprint&card identification access,electric lock chart recorder	
Racks	16	24
2" boxes	400	600
Certification	CE, UL, MDR, Energy Star	

Cascade

-86°C Upright ULT Freezer



The Cascade -86°C Upright ULT Freezer utilizes a two-stage cascade refrigeration system with natural refrigerants R290 and R170, providing high efficiency, environmental sustainability, and optimal temperature recovery performance.

Core Advantages

1.9°C

Temp. Uniformity

2.5°C

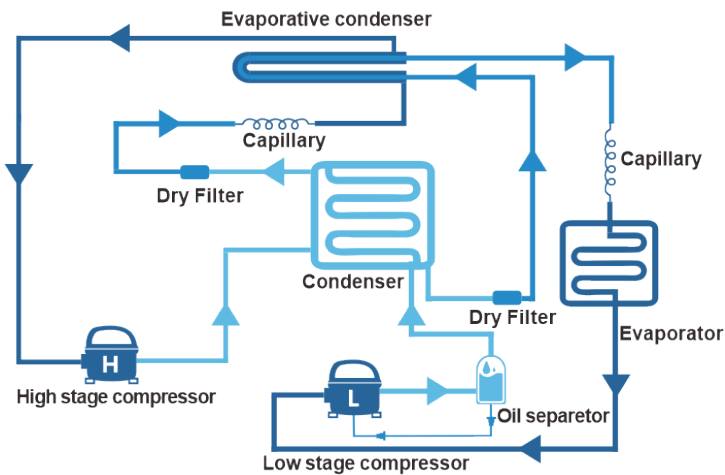
Temp. Fluctuation

8.1kWh

Daily Consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory.
Data source from DW-HL1008S/DW-HL678S/DW-HL528S

Refrigeration Diagram



Cascade System Advantage

This system comprises two independent refrigeration cycles—a high-stage and a low-stage—connected via a cascade condenser. The evaporator of the high-stage cycle cools the condenser of the low-stage cycle. This design allows sequential cooling from approximately -40°C to -86°C, enabling efficient and consistent ultra-low temperature performance with low energy consumption.

Key Features

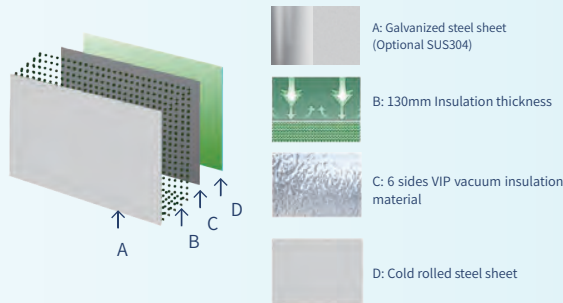
Superior Insulation

Combining of CFC-free polyurethane (PU) foam and six-sided vacuum insulation panels (VIPs), this unit minimizes thermal exchange, helping to preserve internal temperature stability and reduce energy usage.

-Outer Casing: Galvanized or optional SUS304 stainless steel

-Insulation Thickness: 130 mm

-VIP Panels: Six-sided enclosure for maximum retention

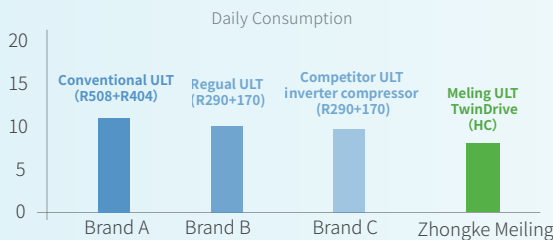


Environment Friendly

Employs natural hydrocarbon refrigerants in full compliance with U.S. SNAP and EU (EU_517/2014) environmental regulations. All manufacturing foaming agents are strictly controlled to meet eco-safety standards.

User Interface and Functionality

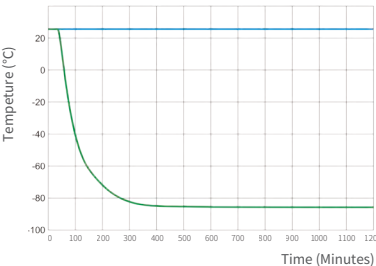
- 10-inch high-resolution LCD touchscreen with glove-compatible operation
- USB port for data transfer, event logs, and system diagnostics
- Switchable °C/°F display modes for user convenience
- Setup wizard and on-screen temperature mapping for simplified configuration



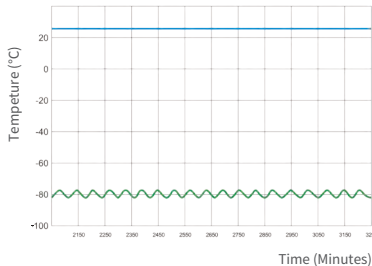
Energy Efficiency

Equipped with inverter compressors that dynamically adjust operation based on internal conditions. During idle phases, the system runs at minimal speeds to reduce consumption and automatically accelerates following door openings to quickly restore target temperatures.

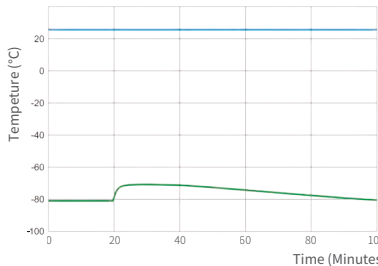
Temperature Mapping



Pull Down



Stable Running



Door Open Recovery

Additional Features



1 10-inch LCD touch screen with smart settings and monitoring
Optional access control via card, fingerprint, or electronic lock

2 Silicone rubber door seals to prevent air leakage

3 Patented ergonomic handle with integrated lock

4 Heated vacuum relief port to equalize internal pressure

5 Adjustable stainless-steel shelving for customizable storage

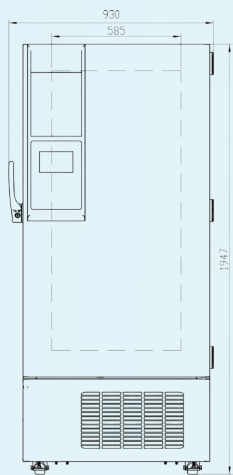
6 25mm access port for monitoring/data loggers

7 Heavy-duty castors with levelling feet for stability

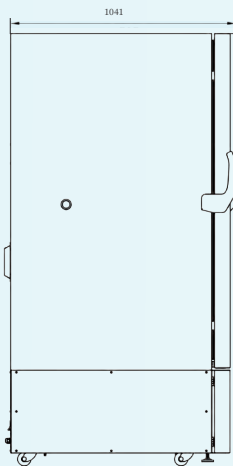
8 Optional galvanized steel or SUS304 interior for hygienic, corrosion-free storage

Product Dimensions

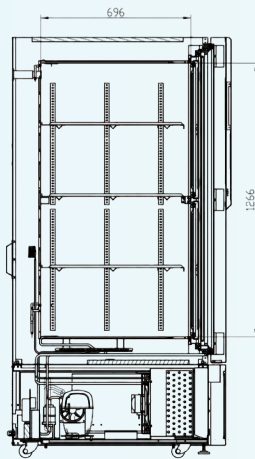
DW-HL528S



Front View



Side View



Rear View

Key Features



-86°C Upright ULT Freezer						
Model	DW-HL398S	DW-HL528S	DW-HL678S	DW-HL778S	DW-HL858S	DW-HL1008S
ModelCapacity(L)	398	528	678	778	858	1008
Temperature range (°C)	-40~86°C	-40~86°C	-40~86°C	-40~86°C	-40~86°C	-40~86°C
Ambient temperature(°C)	16~32°C	16~32°C	16~32°C	16~32°C	16~32°C	16~32°C
Climate Class	N	N	N	N	N	N
Internal dimensions (W*D*H mm)	440*696*1266	585*696*1266	750*696*1286	865*696*1286	877*696*1378	1022*696*1378
External dimensions (W*D*H mm)	785*1041*1947	930*1041*1947	1090*1025*1955	1205*1025*1955	1217*1025*1994	1362*1025*1994
Net/Gross Weight(kg) (wood packing)	241/314	260/349	308/398	330/425	358/448	387/496
Refrigeration System						
Cooling method	Direct cooling					
Defrost method	Manual					
Refrigerant	R290,R170					
Compressor	2pcs					
Insulation material	VIP+Polyurethane					
Insulation thickness(mm)	D:117 L/R:130 B:130		D:100 L/R:130 B:130		D:109 L/R:130 B:120	
Control System						
Controller	Microprocessor					
Display	10"HD intelligent touch screen					
Display increment	0.1°C					
Access method	Password,fingerprint&card optional					
Alarms	High/low temperature, high ambient temperature, power failure, low battery, battery power detection failure Sensor failure,communication error condenser overheating, door ajar (DW-HL1008S optional Visual Compressor failure)					
Alarm mode	Sound and light remote alarm					
Backup battery	Yes					
Sensor	PT1000/NTC					
Construction						
External material	Cold rolled steel					
Internal material	Stainless steel					
Sub lids/inner doors(pcs)	2 (optional 4)		4(Optional 2)		2 (optional 4)	
Shelves	3					
Shelf material	Stinless steel					
Shelf capacity	29kg	38kg	49kg	56kg	57kg	67kg
Vacuum release port	Yes					
Access port	2pcs. 25mm		3pcs. 25mm			
Lock with key	Yes					
Castor/feet	4+ (2 leveling feet)					
Data Logging & External Connection						
USB interface				Yes		
Remote alarm contact				Yes		
RS485				Yes		
Electrical Data						
Power supply(V, Hz)	110-230;50/60	110-230;50/60	110-230;50/60	110-230;50/60	220-230;50/60	220-230;50/60
Power(W)	650	650	750	800	850	850
Rated Current(A)	9.09	9.09	14.76	14.76	7.44	7.44
Energy consumption(kWh/24h)	8.2	8.1	9.0	9.0	10.5	10.9
Others						
Noise dB(A)	52	58.9	51.3	51.7	53.7	54.1
Options	Fingerprint&card identification access, chart recorder					
Racks	12	16	20	24	24	28
2" boxes	300	400	500	600	660	770
Certification	CE, MDR	CE, UL, MDR	CE, MDR	CE, UL, MDR	CE, MDR	CE, UL, MDR

TwinCore

-86°C Upright ULT Freezer



The TwinCore -86°C Upright ULT Freezer employs an advanced auto-cascade cooling system using natural hydrocarbon refrigerants. Designed for high performance and safety, this dual refrigeration system offers full redundancy: if one compressor fails, the second system maintains internal temperatures around -70°C until service support arrives.

Core Advantages

77000 Pcs

Cryotube loading capacity

3.5 Hrs

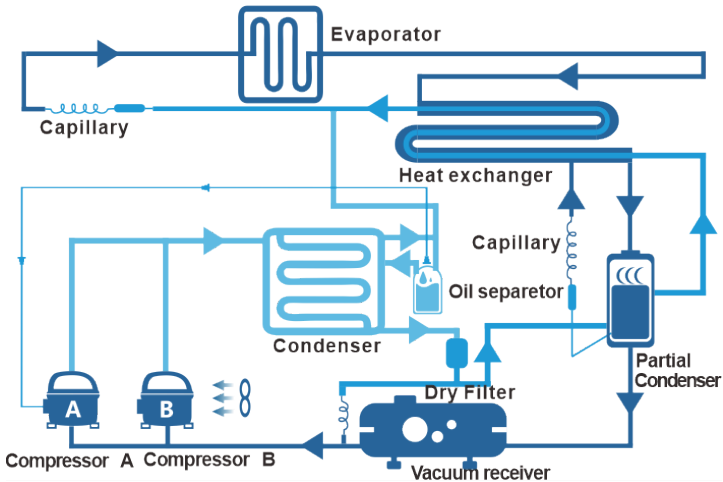
*Pull down to -80°C

1.3°C

*Peak Variance

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory.
*Tested according to Energy Star standard

Refrigeration Diagram

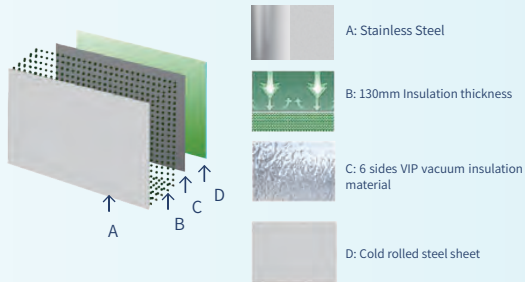


The patented TwinCore Auto-Cascade system combines efficient cooling performance with compact, simplified internal structures. Twin compressors operate in parallel to deliver fast pull-down and recovery times, even after frequent door openings. In the event of failure, one compressor can independently maintain safe storage conditions.

Key Features

High-Performance Insulation

A combination of 130 mm CFC-free PU foam and premium vacuum insulation panels ensures excellent thermal retention, significantly reducing temperature fluctuations and energy usage.



Eco-Friendly Refrigeration

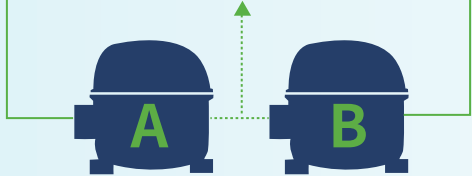
Uses natural refrigerants compliant with SNAP (U.S.) and EU (EU_517/2014) environmental regulations. All foaming agents in manufacturing are environmentally controlled.

Advanced User Interface

- 7-inch high-resolution touchscreen for intuitive monitoring and control
- USB port for data logging and transfer
- Setup wizard, event log access, and temperature mapping functions
- °C/°F temperature unit switch for user convenience



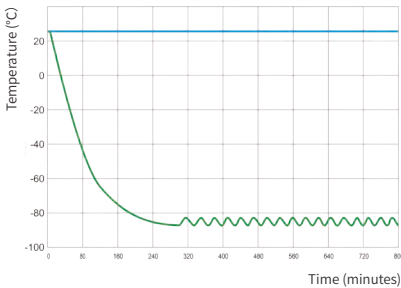
TwinCore Cooling System



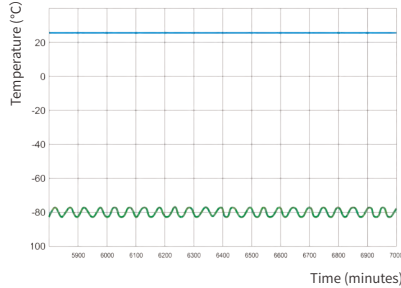
TwinCore Cooling System

The dual-compressor system enables fast temperature recovery and energy-efficient performance. If one compressor fails, the second maintains safe storage temperatures, preserving sample integrity until technical service is available.

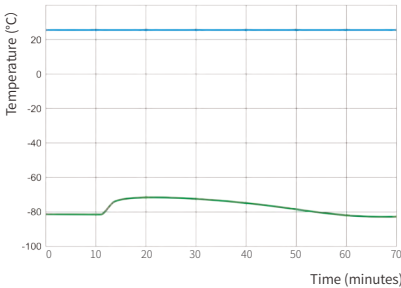
Temperature Mapping



Pull down



Stable running



Door open recovery

Additional Features

DW-HL528



1



7-inch LCD touchscreen with optional card, fingerprint, or e-lock access

2



Silicone rubber door seals to minimize cold air loss

3



Ergonomic handle with integrated locking system

4



Heated vacuum relief port to balance internal pressure

5



Tool-free, easy-to-maintain ventilation filter

6



25 mm access port for external monitoring and logging

7



Heavy-duty castors with levelling feet

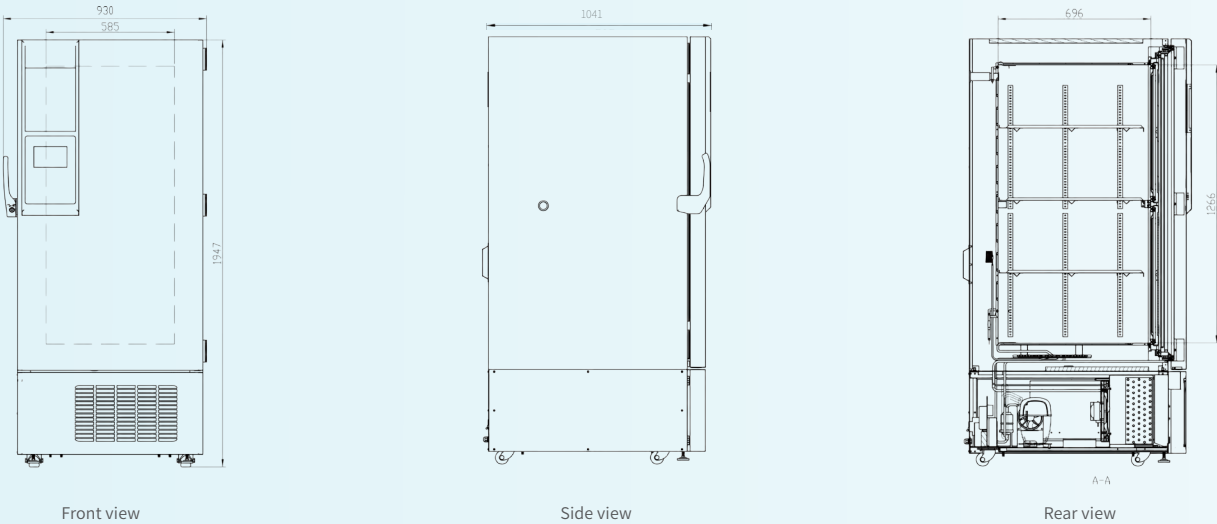
8



304 stainless steel interiors for corrosion resistance and hygienic storage

Product Dimensions

DW-HL528



Key Features



-86°C Upright ULT Freezer												
Model	DW-HL398		DW-HL528		DW-HL678		DW-HL778		DW-HL858		DW-HL1008	
ModelCapacity(L)	398		528		678		778		858		1008	
Temperature range (°C)	-40~86°C		-40~86°C		-40~86°C		-40~86°C		-40~86°C		-40~86°C	
Ambient temperature(°C)	16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C	
Climate Class	N		N		N		N		N		N	
Internal dimensions (W*D*H mm)	440*696*1266		585*696*1266		750*696*1286		865*696*1286		877*696*1378		1022*696*1378	
External dimensions (W*D*H mm)	785*1041*1947		930*1041*1947		1090*1025*1955		1205*1025*1955		1217*1025*1994		1362*1025*1994	
Net/Gross Weight(kg) (wood packing)	247/325		296/365		330/420		365/455		390/470		426/510	
Refrigeration system												
Cooling method	Direct cooling											
Defrost method	Manual											
Refrigerant	HC											
Compressor	2pcs											
Insulation material	VIP+Polyurethane											
Insulation thickness(mm)	D:117 L/R:130 B:130		D:100 L/R:130 B:130					D:109 L/R:130 B:120				
Control system												
Controller	Microprocessor											
Display	7"HD intelligent touch screen											
Display increment	0.1°C											
Access method	Password,fingerprint&card optional											
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, battery power detectionfailure Sensor failure,communication error condenser overheating, door ajar (DW-HL1008S optional Visual Compressor failure)											
Alarm mode	Sound and light remote alarm											
Backup battery	Yes											
Sensor	PT1000/NTC											
Construction												
External material	Cold rolled steel											
Internal material	Stainless steel											
Sub lids/inner doors(pcs)	2	2 (optional 4)		2 (optional 4)		4 (optional 2)		2 (optional 4)		2 (optional 4)		
Shelves	3											
Shelf material	Stinless steel											
Shelf capacity	29kg	38kg		49kg		56kg		57kg		67kg		
Vacuum release port	Yes											
Access port	2pcs. 25mm				3pcs. 25mm							
Lock with key	Yes											
Castor/feet	4+ (2 leveling feet)											
Data logging & external connection												
USB interface	Yes											
Remote alarm contact	Yes											
RS485	Yes											
Electrical Data												
Power supply(V,Hz)	220-240V/50Hz, 220-240V/60Hz											
Power(W)	1050	1100	1200	1050	1400	1750	1510	1750	1520	1950	1500	1900
Rated Current(A)	8.69	8.8	9.2	8.7	9.62	10.13	10.56	9.91	11.8	13	13.39	13
Energy consumption(kWh/24h)	9.8	9.294	11.43	9.873	12.9	11.853	13.85	10.65	13.96	14.3	14.53	16.5
Noise dB(A)	51.5		51		54.2		54.1		55.5		56.5	
Options	Fingerprint&card identification access,electric lock chart recorder											
Racks	12		16		20		24		24		28	
2" boxes	300		400		500		600		660		770	
Certification	CE, MDR											

TwinShield

-86°C ULT Freezer Dual System



-86°C Ultra Low Temperature Freezer built up by two independent refrigeration systems and the Dual Cooling System offers the highest level of protection. If you stop any system by disconnecting the other can maintain the freezer around the -80°C. Valuable and irreplaceable samples can always be securely stored with the highest confidence even if the compressor fails. Designed for long-term, ultra-stable storage of invaluable biological samples at -86°C, this dual-system freezer is essential for biobanking, pharmaceutical research, and reproductive medicine.

Core Advantages

1.4 °C

Temp.Uniformity

3.5 H

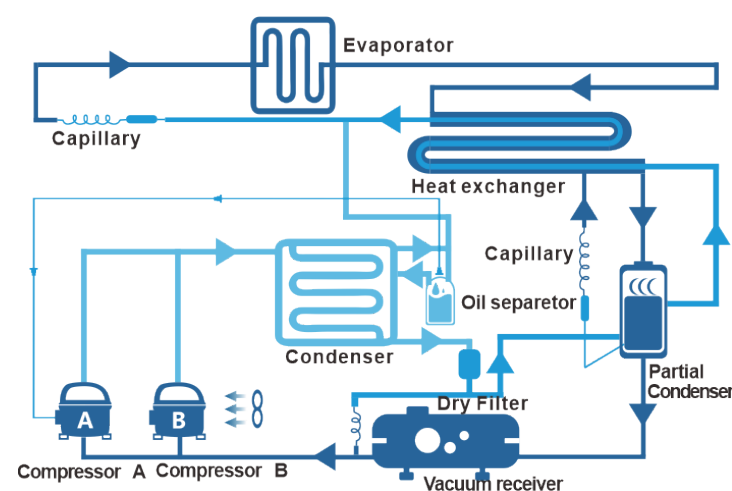
Pull Down To -80°C

7.1 Kwh

Daily Consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory

Refrigeration Diagram



■ -86°C Dual-System ULT Freezers. The unit is equipped with two independent refrigeration systems, this ultra-low temperature freezer ensures uninterrupted protection. Each independent refrigeration system ensures the freezer temperature remains at -80°C.

Key Features

Superior Insulation

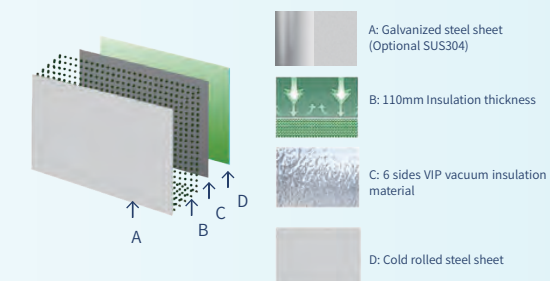
Combining 110 mm of CFC-free polyurethane (PU) foam and six-sided vacuum insulation panels (VIPs), this unit minimizes thermal exchange, helping to preserve internal temperature stability and reduce energy usage.

-7 layer gasket seal for enhanced thermal insulation(DW-HL578T)

-Outer Casing: Galvanized or optional SUS304 stainless steel

-Insulation Thickness: 110 mm

-VIP Panels: 6-side VIP vacuum insulation panels to minimize heat transfer



Environment Friendly

Employs natural hydrocarbon refrigerants in full compliance with U.S. SNAP and EU (EU_517/2014) environmental regulations. All manufacturing foaming agents are strictly controlled to meet eco-safety standards.

User Interface and Functionality

-10-inch high-resolution LCD touchscreen with glove-compatible operation

-USB port for data transfer, event logs, and system diagnostics

-Switchable °C/°F display modes for user convenience

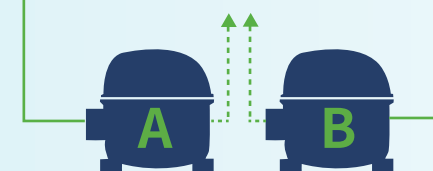
-Setup wizard and on-screen temperature mapping for simplified configuration

-IoT Function (WIFI/5V power supply interface/Network interface)

-RS485 interface compliance to MODBUS protocol is able to transfer data with BMS console.(Standard)



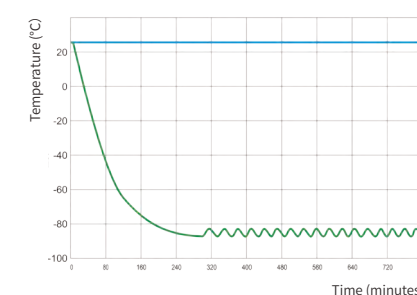
Dual Cooling System



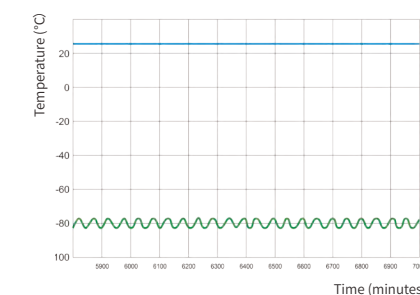
Energy Efficiency

Equipped with inverter compressors that dynamically adjust operation based on internal conditions. During idle phases, the system runs at minimal speeds to reduce consumption and automatically accelerates following door openings to quickly restore target temperatures.

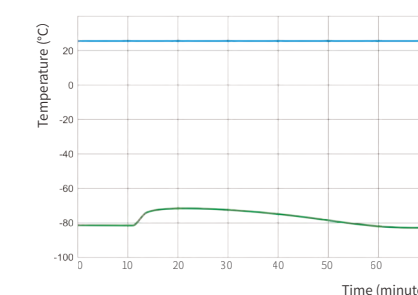
Temperature Mapping



Pull down



Stable running



Door open recovery

Key Features

DW-HL578T



1

10-inch LCD touch screen
Smart setting and monitoring. Standard access card, optional fingerprint recognition/E-lock for enhanced access control requirements.

2

Tightly pressed door seal
Made of silicone rubber, effectively prevents cold air from escaping

3

Ergonomic handle design
Patented specially designed help door open preventing rapid temperature increases and ensuring low energy consumption. And equipped with a door lock to prevent unauthorized opening and provide safe storage space for samples.

4

Heated vacuum relief port
Balancing the freezing negative pressure inside and outside the cabinet

5

Easy-to-maintain ventilation filter
Can be opened without tools for maintenance with User-friendly design

6

Access port
25 φmm for easy connection to data loggers and monitoring equipment.

7

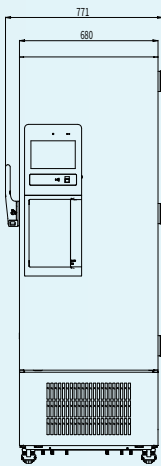
Heavy duty castors with leveling feet
Making transfer and fixing the equipment easily

8

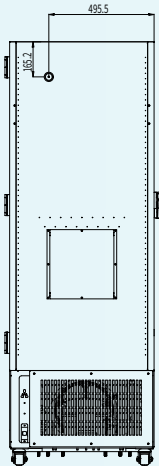
Galvanized sheet interior (Optional stainless steel)
Corrosion-resistant and bacteria free for sample storage safe and easy cleaning

Product Dimensions

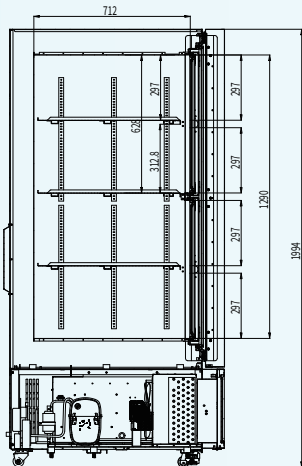
DW-HL428T



Front view



Side view



Rear view

Key Features



-86°C Upright ULT Freezer					
Model	DW-HL428T	DW-HL578T	DW-HL708T	DW-HL848T	DW-HL1008T
ModelCapacity(L)	428	578	708	848	1008
Temperature range (°C)	-40~86°C	-40~86°C	-40~86°C	-40~86°C	-40~86°C
Ambient temperature(°C)	16~32°C	16~32°C	16~32°C	16~32°C	16~32°C
Climate Class	N	N	N	N	N
Internal dimensions (W*D*H mm)	460*712*1290	615*712*1290	750*696*1286	910*714*1290	1022*696*1378
External dimensions (W*D*H mm)	770*1031*1994	926*1031*1994	1090*1025*1955	1265*1030*1998	1362*1025*1994
Net/Gross Weight(kg) (wood packing)	263/342	294/382	316/-	341/-	390/-
Refrigeration system					
Cooling method	Direct cooling				
Defrost method	Manual				
Refrigerant	HC				
Compressor	2pcs				
Insulation material	Galvanized steel sheet (Optional Stainless steel)				
Insulation thickness(mm)	D:104, L/R:110, B:110		D:100, L/R:130, B:130	D:95, L/R:130, B:120	D:109, L/R:130, B:120
Control system					
Controller	Microprocessor				
Display	10"HD intelligent touch screen				
Display increment	0.1°C				
Access method	Password,fingerprint&card optional				
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, battery power detectionfailure Sensor failure,communication error condenser overheating, door ajar (DW-HL1008S optional Visual Compressor failure)				
Alarm mode	Sound and light remote alarm				
Backup battery	Yes				
Sensor	PT1000/NTC				
Construction					
External material	Cold rolled steel				
Internal material	Galvanized sheet interior (Optional stainless steel)				
Sub lids/inner doors(pcs)	2 (optional 4)		4	2 (optional 4)	
Shelves	3				
Shelf material	Stinless steel				
Shelf capacity	29kg	38kg	49kg	57kg	67kg
Vacuum release port	Yes				
Access port	2pcs. 25mm		2pcs. 25mm		
Lock with key	Yes				
Castor/feet	4 (2 leveling feet)				
Data logging & external connection					
USB interface	Yes				
Remote alarm contact	Yes				
RS485	Yes				
5V USB Port/Power Connector	Yes				

SoloShield

-86°C Upright ULT Freezer



Core Advantages

40,000 Pcs

Cryotube loading capacity

3.5 Hrs

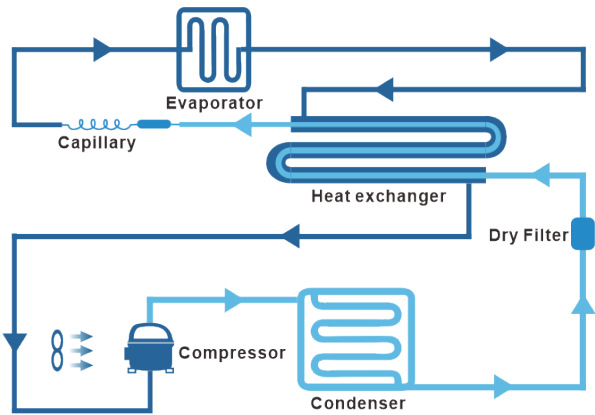
*Pull down to -80°C

6.3 Kwh

Daily consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory.

Refrigeration Diagram

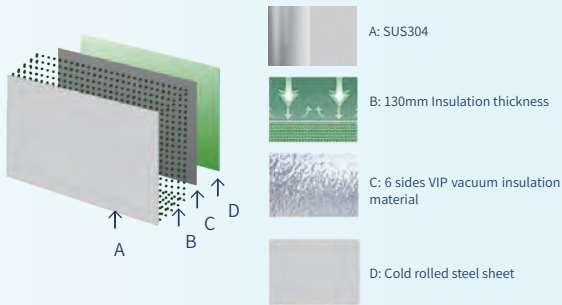


■ Using a high COP compressor to drive a high COP mixed refrigerant, the optimal thermodynamic efficiency matching scheme, enabling rapid cooling and stable temperature control.

Key Features

Superior Insulation

Constructed with 130 mm of CFC-free polyurethane foam and high-efficiency vacuum insulation panels (VIP), the freezer maintains excellent thermal isolation to reduce temperature drift and energy consumption.



Eco-Friendly Design

Employs natural hydrocarbon refrigerants that meet U.S. SNAP and EU (EU_517/2014) environmental regulations. All foaming agents are environmentally safe and strictly managed during manufacturing.

Intuitive Operation

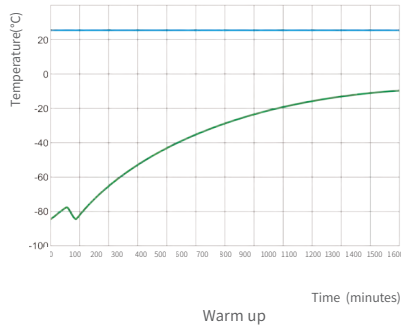
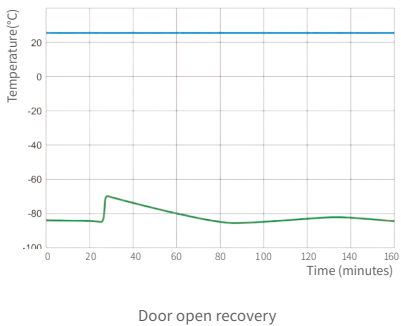
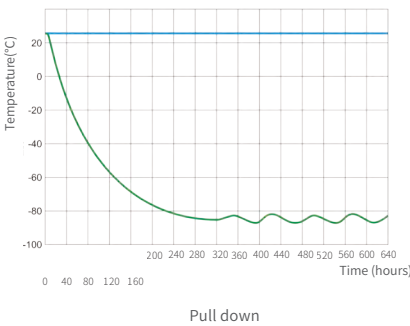
- LED touch panel with clear status indicators and controls
- USB interface for exporting operational data and logs
- Easy-to-navigate system with setup wizard, event log, and temperature mapping



Reliable Alarm System

Equipped with a microprocessor-based control system featuring temperature settings accurate to 0.1°C. Includes 10 integrated alarm types for issues such as over-temperature, door opening, sensor failure, and power outages. An internal backup battery ensures controller functionality during power loss.

Temperature Mapping



Additional Features

DW-HL528D



1

High-visibility digital temperature display (2-inch)
-Microprocessor controller with adjustable range from -40°C to -86°C

2

CFC Free PU foam
-High-performance VIP insulation for thermal efficiency

3

Ergonomic handle with integrated lock to prevent unauthorized access

4

Heated vacuum relief port
-To balance freezing negative pressure inside and outside the cabinet.

5

Easy to Maintain
-Tool-free maintenance filter for user convenience

6

Access port
-25 mm access port for external probes or data loggers

7

Heavy-duty castors with levelling feet

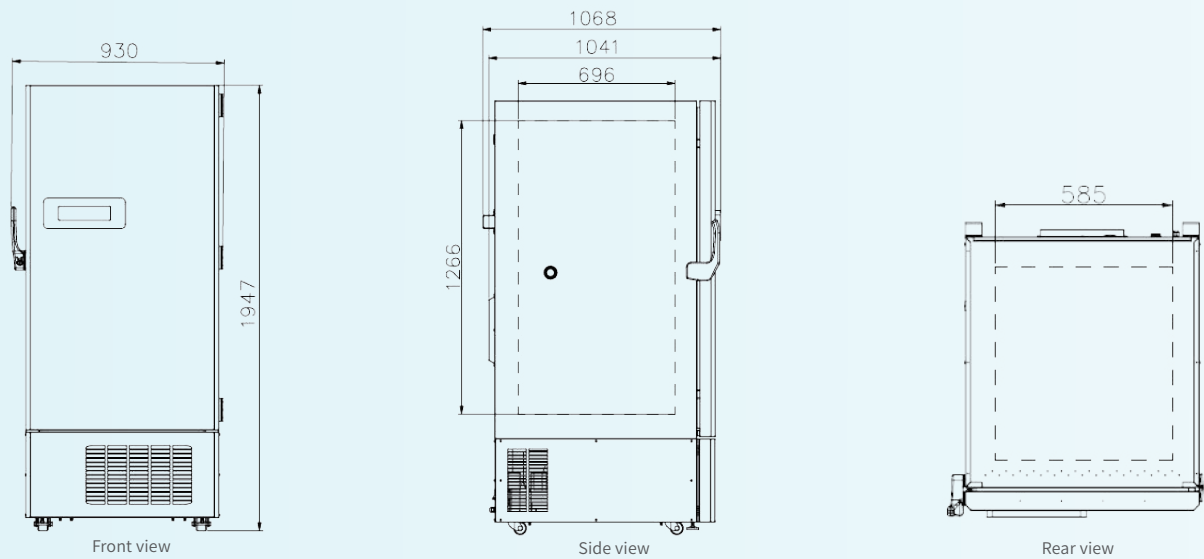
8

304 stainless steel interiors
-Easy cleaning for hygienic and corrosion-resistant storage



Product Dimensions

DW-HL528D



Key Features



-86°C Upright ULT Freezer		
Model	DW-HL398D	DW-HL528D
ModelCapacity(L)	398	5285
Temperature range (°C)	-40~-86°C	-40~-86°C
Ambient temperature(°C)	16~32°C	16~32°C
Climate Class	N	N
External dimensions (W*D*H mm)	440*696*1266	585*696*1266
Internal dimensions (W*D*H mm)	785*1041*1947	930*1041*1947
Net/Gross Weight(kg) (wood packing)	224/302	249/318
Refrigeration system		
Cooling method	Direct cooling	
Defrost method	Manual	
Refrigerant	HC	
Compressor	1pc	
Insulation material	VIP+Polyurethane	
Insulation thickness(mm)	D:117 L/R:130 B:130	
Control system		
Controller	Microprocessor	
Display	Digital	
Display increment	0.1°C	
Access method	Password	
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, communication error condenser overheating, door ajar	
Alarm mode	Audible, Visual and Remote alarm	
Backup battery	Yes	
Sensor	PT1000/NTC	
Construction		
External material	Cold rolled steel	
Internal material	Stainless steel	Stainless steel
Sub lids/inner doors(pcs)	2 (optional 4)	2 (optional 4)
Shelves	3	3
Shelf material	Stainless steel	Stainless steel
Shelf capacity	29kg	38kg
Vacuum release port	Yes	Yes
Access port	2pcs. 25mm	
Lock with key	Yes	Yes
Castor/feet	4+ (2 leveling feet)	4+ (2 leveling feet)
Data logging & external connection		
USB interface	Yes	
Remote alarm contact	Yes	
RS485	Yes	
Electrical Data		
Power supply(V,Hz)	220~240/50Hz	220~240/50Hz
Power(W)	650	720
Rated Current(A)	4.4	5.3
Energy consumption(kWh/24h)	6.77	7.055
Others		
Noise dB(A)	54.4	55.6
Options	Chart recorder/Co2 backup system	
Racks	12	16
2" boxes	300	400
Certification	CE	

SoloShield

-86°C Upright ULT Freezer



Core Advantages

1.1°C

Temperature uniformity

3.8 Hrs

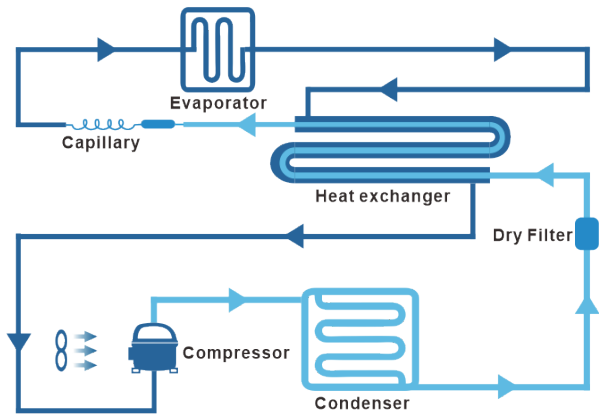
*Pull down to -80°C

6.15 Kwh

Daily consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory.

Refrigeration Diagram



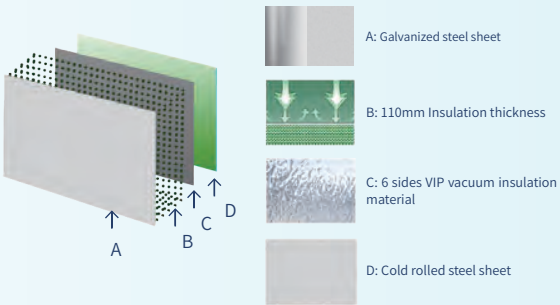
■ Game-Changing Thermodynamics: Our patented, award-winning design unlocks sustained peak performance, delivering both unmatched cooling speed and significantly reduced operating costs

Key Features

Superior Insulation

Constructed with 110 mm of CFC-free polyurethane foam and high-efficiency vacuum insulation panels (VIP), the freezer maintains excellent thermal isolation to reduce temperature drift and energy consumption.

- 7 layer gasket seal for enhanced thermal insulation
- 6 side VIP vacuum insulation panels to minimize heat transfer
- 110mm high-density foamed insulation layer for superior cold retention



Eco-Friendly Design

Employs natural hydrocarbon refrigerants that meet U.S. SNAP and EU (EU_517/2014) environmental regulations. All foaming agents are environmentally safe and strictly managed during manufacturing.

Intuitive Operation

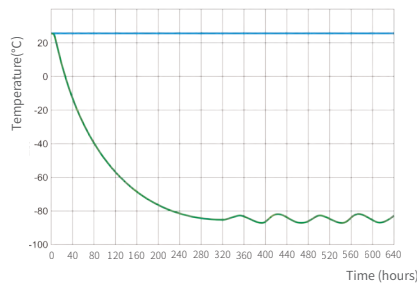
- 10-inch Touch Screen
- Display temp. in 0.1°C increments
- 10 Years temperature data recording
- Real-time temperature data recording, temperature curve
- 10 critical alarms
- WIFI/ Bluetooth / fingerprint / swipe card
- RS485 interface / remote alarm contact



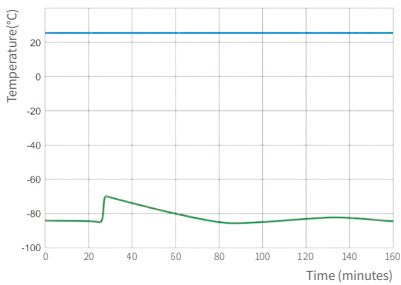
Reliable Alarm System

Equipped with a microprocessor-based control system featuring temperature settings accurate to 0.1°C. Includes 10 integrated alarm types for issues such as over-temperature, door opening, sensor failure, and power outages. An internal backup battery ensures controller functionality during power loss.

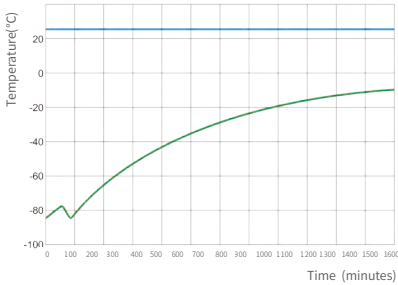
Temperature Mapping



Pull down



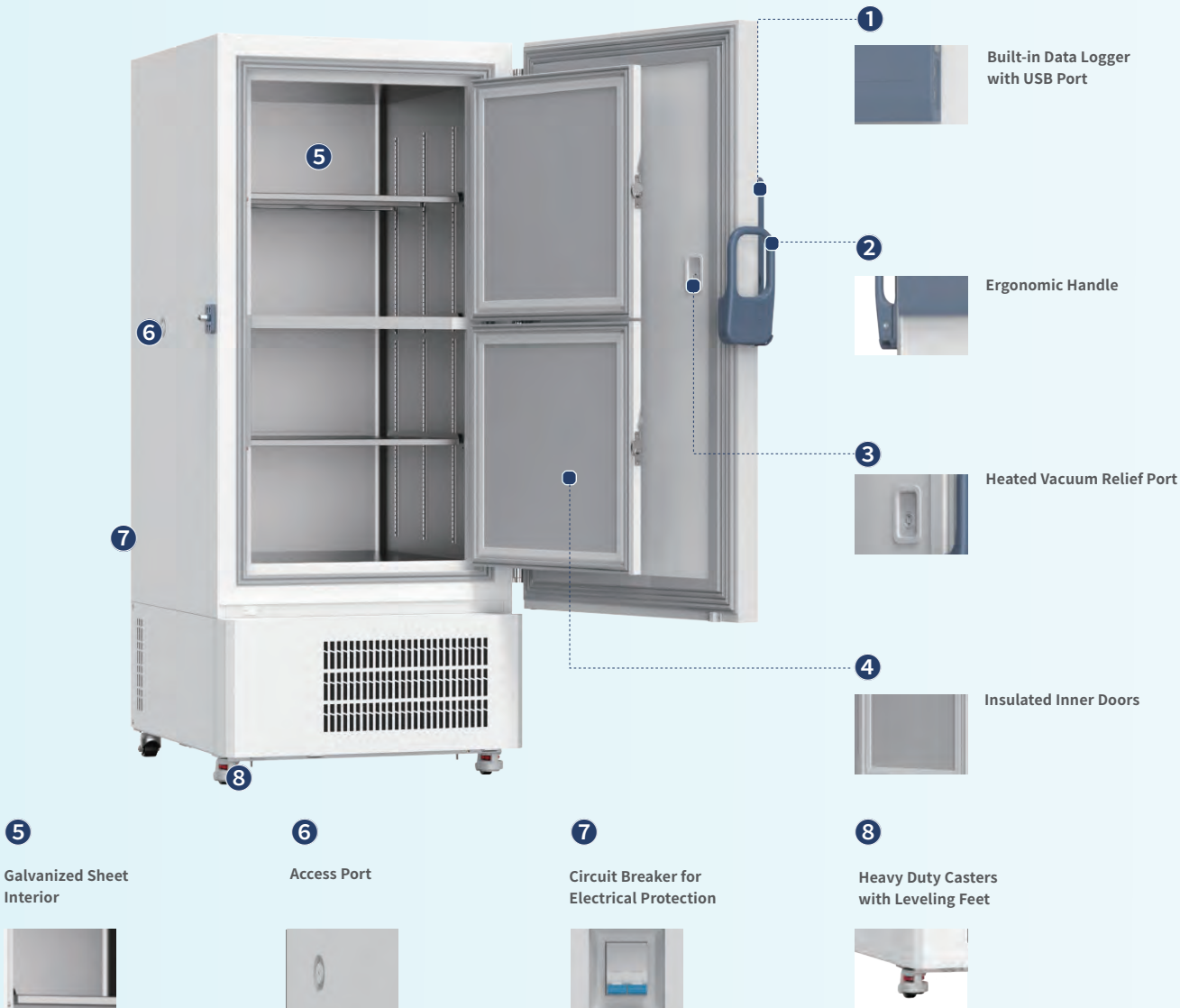
Door open recovery



Warm up

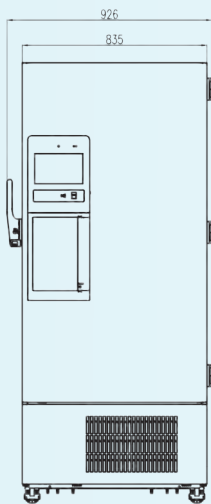
Additional Features

DW-HL578

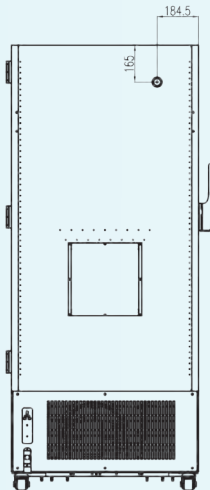


Product Dimensions

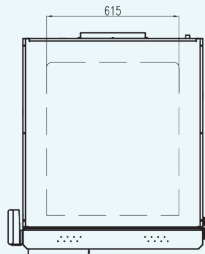
DW-HL578



Front view



Side view



Rear view

Key Features



-86°C Upright ULT Freezer			
Model	DW-HL428	DW-HL578	DW-HL708
ModelCapacity(L)	428	578	708
Temperature range (°C)	-40~86°C	-40~86°C	-40~86°C
Ambient temperature(°C)	16~32°C	16~32°C	16~32°C
Climate Class	N	N	N
External dimensions (W*D*H mm)	770*1031*1994	926*1031*1994	1101*1037*1998
Internal dimensions (W*D*H mm)	460*712*1290	615*712*1290	746*714*1290
Net/Gross Weight(kg)	243/275	270/-	281/-
Refrigeration system			
Cooling method	Direct cooling	Direct cooling	Direct cooling
Defrost method	Manual	Manual	Manual
Refrigerant	HC	HC	HC
Compressor	1pc	1pc	1pc
Insulation material	VIP + Polyurethane	VIP + PU	VIP + PU
Insulation thickness(mm)	D:104, L/R:110, B:110	D:104, L/R:110, B:110	D:95, L/R:130, B:120
Control system			
Controller	Microprocessor	Microprocessor	Microprocessor
Display	Touch screen	Touch screen	Touch screen
Display increment	0.1°C	0.1°C	0.1°C
Access method	Password	Password	Password
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, communication error condenser overheating, door ajar		
Alarm mode	Audible, Visual and Remote alarm		
Backup battery	Yes		
Sensor	PT1000/NTC		
Construction			
External material	Cold rolled steel	Cold rolled steel	Cold rolled steel
Internal material	Galvanized sheet	Galvanized sheet	Galvanized sheet
inner doors(pcs)	2 Solid Door	2 Solid Door	2 Solid Door
Shelves	3	3	3
Shelf material	Stainless steel	Stainless steel	Stainless steel
Shelf capacity	29kg	38kg	40kg
Vacuum release port	Yes	Yes	Yes
Access port	2pcs. 25mm	2pcs. 25mm	2pcs. 25mm
Lock with key	Yes	Yes	Yes
Castor/feet	4	4	4
Data logging & external connection			
USB interface	Yes	Yes	Yes
Remote alarm contact	Yes	Yes	Yes
RS485	Yes	Yes	Yes
Electrical Data			
Power supply(V,Hz)	220~240/50Hz	220~240/50Hz	220~240/50Hz
Power(W)	550	670	750
Rated Current(A)	3.8	5.7	7.2A
Energy consumption(kWh/24h)	6.15	6.44	8.4
Others			
Noise dB(A)	47.6	50.7	47
Options	Chart recorder/CO2 backup system	Chart recorder/CO2 backup system	Chart recorder/CO2 backup system
Certification	CE	CE	/

-86°C Chest ULT Freezer

The -86°C Chest ULT Freezer is designed for users requiring high-capacity, energy-efficient cold storage with exceptional temperature uniformity. Its horizontal layout minimizes cold air loss during door openings, making it ideal for laboratories and biorepositories that prioritize temperature stability for sensitive samples.



Efficient Control System
Incorporates a reliable microprocessor-based temperature control system with high-precision performance. A user-friendly digital interface ensures accurate monitoring and adjustment.

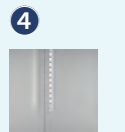
MODBUS-Compatible Data Interface
Standard RS485 interface supports MODBUS communication protocol, allowing seamless integration with data tracking and monitoring systems.



Ergonomic Handle Design
Equipped with a specially engineered handle that supports easy access while minimizing temperature disturbance. The integrated lock prevents unauthorized entry, ensuring secure sample storage.



High-Performance Insulation
-Outer door insulation thickness ≥ 90 mm
-Thickened internal insulation minimizes thermal exchange
-Optimal sealing prevents the loss of cooling capacity during frequent access

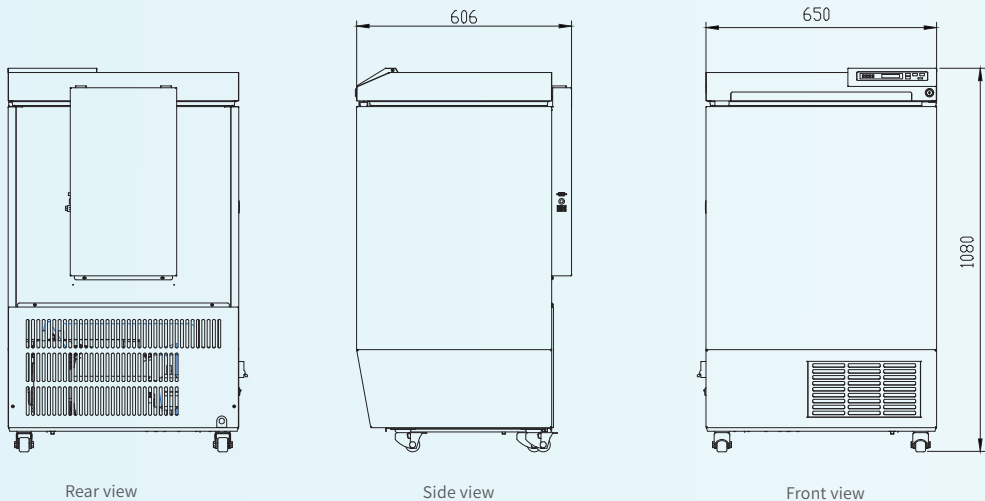


Durable and Hygienic Interior
-Constructed with 304 stainless steel for corrosion resistance
-Easy to clean and maintain, ideal for high-sensitivity laboratory environments



Additional Features
-Heated vacuum relief port balances interior pressure
-25 mm access port for data loggers or monitoring devices
-Optional caster wheels with leveling feet for easy mobility and secure placement

Product Dimensions



Key Features



-86°C Chest Ultra Low Temperature Freezer				
Model	DW-HW50	DW-HW138	DW-HW328	DW-HW668
ModelCapacity(L)	50	138	328	668
Temperature range (°C)	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C
Ambient temperature(°C)	16~32°C	16~32°C	16~32°C	16~32°C
Climate Class	N	N	N	N
External dimensions (W*D*H mm)	430*305*425	1328*890*1025	2038*890*1025	2008*1180*1041
Internal dimensions (W*D*H mm)	650*606*1080	490*470*582	1200*470*582	1200*815*666
Net/Gross Weight(kg)	74/120	200/262(wood packing)	280/370	352/509
Refrigeration system				
Cooling method	Direct cooling			
Defrost method	Manual			
Refrigerant	HC			
Compressor	1pc			
Insulation material	VIP+Polyurethane			
Insulation thickness(mm)	D:90 L/R:110 B:110	D:102.5 L/R:152 B:152	D:102.5 L/R:152 B:152	D:102.5 L/R:130 B:130
Control system				
Controller	Microprocessor			
Display	Digital			
Display increment	0.1°C			
Access method	Password			
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor failure, communication error condenser overheating			
Alarm mode	Audible, Visual and Remote alarm			
Backup battery	Yes			
Sensor	PT1000/NTC			
Construction				
External material	Cold rolled steel			
Internal material	Stainless steel			
Sub lids/inner doors(pcs)	1			
Shelves	/			
Shelf material	/			
Shelf capacity	/			
Vacuum release port	Yes			
Access port	1pc. 25mm	1pc. 40mm	1pc. 40mm	2pc. 40mm
Lock with key	Yes			
Castor/feet	4+(2 brakes)			
Data logging & external connection				
USB interface	Yes			
Remote alarm contact	Yes			
RS485	Yes			
Electrical Data				
Power supply(V,Hz)	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Power(W)	693	940	N:1050/S:960	N:1910/SC:1660
Rated Current(A)	5.48A	5.78A	5.6A	9.5A
Energy consumption(kWh/24h)	7.42	6.49	N:7.89/SC:9.642	N:16.08/SC:15.083
Others				
Noise dB(A)	54	56.7	N:58/SC:54.4	N:58/SC:56.1
Options	CO2 backup system	CO2 backup system	CO2 backup system	CO2 backup
Racks	6	/	/	/
2" boxes	42	/	/	/
Certification	CE, UL	CE	CE	CE

Undercounter

-86°C Undercounter ULT Freezer



Meling Undercounter -86°C ultra-low temperature freezer is compact in design. The undercounter unit is perfectly designed for storage of low temperature scientific experiments, plasma, biomaterial, and other biological products. This compact ULT freezer can be applied to hospital, blood bank, university laboratories, electronic industries, research institutes, military industries, pelagic fishery companies, sanitation and anti-epidemic.

Core Advantages

100 Min

Pull down to -80°C

7200 Pcs

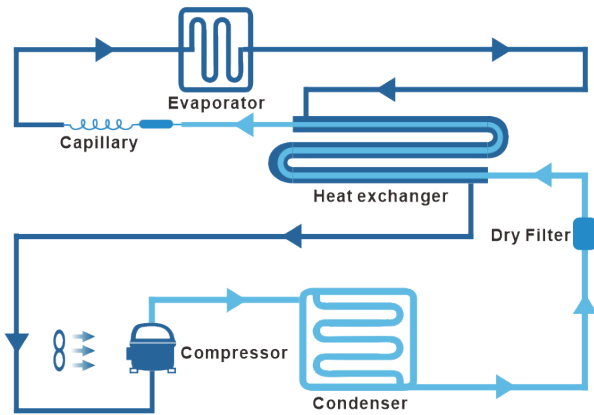
Cryotube loading capacity

4.48 Kwh

Daily consumption

*Ambient Temperature at 25°C, tested in Meling Biomedical Laboratory

Refrigeration Diagram

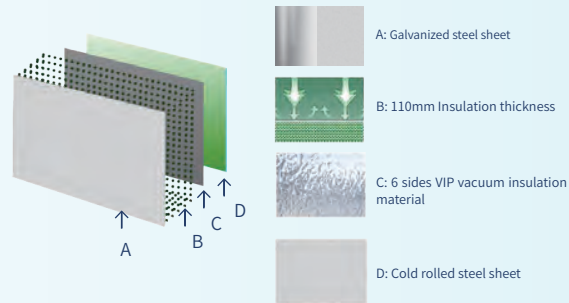


This model features a compact auto-cascade refrigeration system with a patented hydrocarbon refrigerant formula. The simplified coil design enhances energy efficiency and temperature stability. In addition, the application of variable frequency technology can achieve an effective energy saving of over 50%.

Key Features

Superior Insulation

When the ambient temperature is 25 ° C, the cooling time from ambient to -80°C under no-load conditions is ≤ 100 minutes. Equipped with high-performance VIP (vacuum insulation panel) material, the VIP insulation board has a thickness of ≥ 20 mm, significantly improving thermal insulation performance. The warm-up time after power failure at -80°C is as long as 140 minutes.



Eco-Friendly Refrigeration

Equipped with environmentally responsible hydrocarbon refrigerants that comply with U.S. SNAP and EU (EU_517/2014) regulations. The foaming agents used in production are managed to meet green manufacturing standards.

User-Friendly Operation

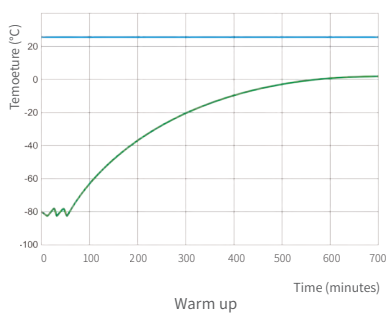
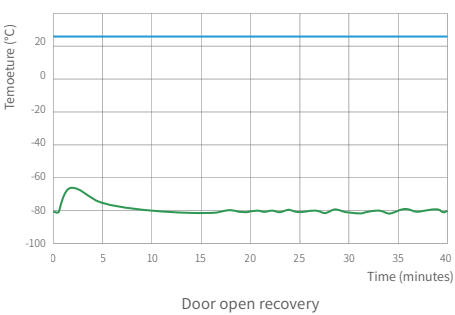
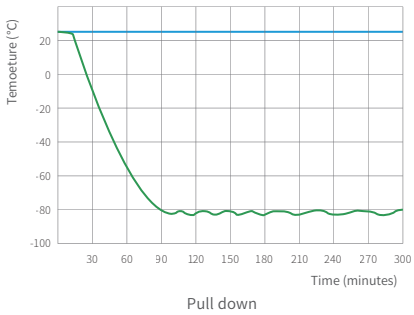
Smart Large Screen: 10.1-inch high-performance LCD touch screen. **Ergonomic Design:** Features a new assisted handle, allowing for one-handed door opening and closing. **Standard Interfaces:** Includes USB, RS485, and remote alarm interfaces as standard. **Optional Access Control:** Configurable with electromagnetic lock, card swipe, fingerprint, or facial recognition. **Optional Systems:** Available with cold chain IoT monitoring modules and a carbon dioxide backup system. **Visual Alert System:** Distinctive light band provides visual warnings for enhanced sample security.



Reliable Alarm System

Advanced microprocessor-based controller with 0.1°C temperature accuracy and 10 integrated alarm functions for power failure, door ajar, sensor fault, and over-temperature alerts. Backup battery provides continued operation during power outages.

Temperature Mapping



Key Features

DW-HL110V



1



10.1-inch Intelligent Touch Screen
experience convenient human-machine interaction.

2



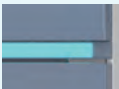
USB Data Export
Data is systematically recorded for 10 years.

3



Dual-Authentication Entry
Optional biometric (fingerprint) or RFID card access provides enhanced data protection and maintains sample privacy.

4



Security -12 Alarms
Features innovative LED warning strip,combined with dual sound & light alarms to secure sample protection.

5



Inverter-brand Compressor
Variable-frequency brand compressor delivers fast temperature pull down and superior energy-saving performance.

6



Easy to Move
Equipped with 4 universal wheels (2 lockable) enable smooth movement and stable.

7



Test Port
Φ 25mm access port, convenient to monitor / test / back-up device

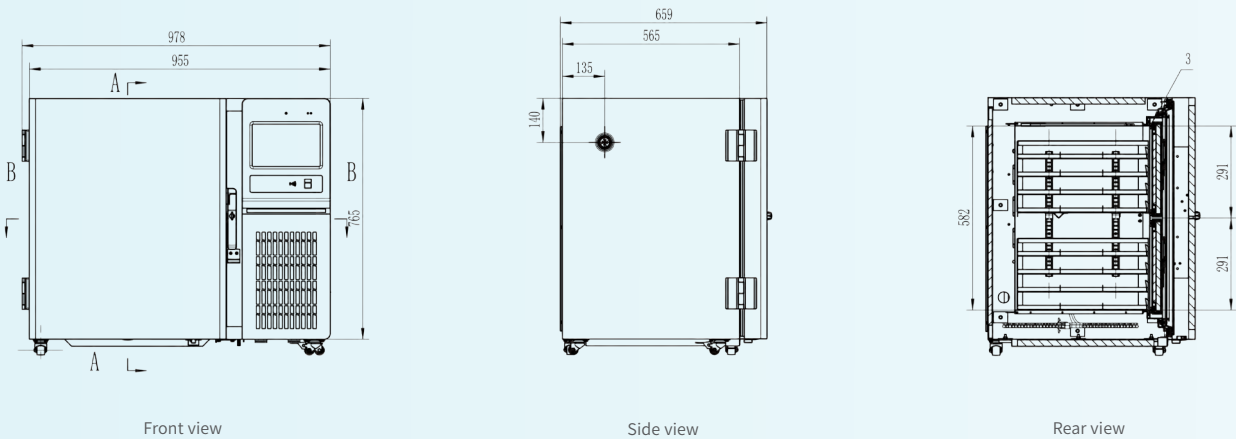
8



Ergonomic Handle
Redesigned with optimal space utilization, allowing for easy, one-handed operation.

Product Dimensions

DW-HL110V



Key Features



-86°C Undercounter Ultra Low Temperature Freezer					
Model	DW-HL50		DW-HL100		DW-HL110V
ModelCapacity(L)	50		100		110
Temperature range (°C)	-40~86°C		-40~86°C		-40~86°C
Ambient temperature(°C)	16~32°C		16~32°C		16~32°C
Climate Class	N		N		N
External dimensions (W*D*H mm)	951*700*757		1066*742*820		978*662*815
Internal dimensions (W*D*H mm)	305*425*430		450*450*514		435*426*582
Net/Gross Weight(kg)	104/156 (wood packing)		145/189 (wood packing)		119/-
Refrigeration system					
Cooling method	Direct cooling				
Defrost method	Manual				
Refrigerant	HC				
Compressor	1pc				
Insulation material	VIP+ Polyurethane				
Insulation thickness(mm)	D:76 L/R:110 B:110		D:103 L/R:90/115 B:91.5		D:90 L/R:90/110 B:85
Control system					
Controller	Microprocessor				
Display	Digital				
Display increment	0.1°C				
Access method	Password				
Alarms	High/low temperature, high ambient temperature, power failure, low battery, battery power detectionfailure sensor failure, communication error, condenser overheating, door ajar				
Alarm mode	Audible, Visual and Remote alarm				
Backup battery	Yes				
Sensor	PT1000/NTC				
Construction					
External material	Cold rolled steel				
Internal material	Galvanized sheet (Optional stainless steel)				
Sub lids/inner doors(pcs)	1	2		2	
Shelves	1				
Shelf material	Stainless steel				
Shelf capacity	12kg	20kg		18kg	
Vacuum release port	Yes				
Access port	1pc. 25mm				
Lock with key	Yes				
Castor/feet	4+ (2 brakes)		4		4(2 with Brake)
Data logging & external connection					
USB interface	Yes				
Remote alarm contact	Yes				
RS485	Yes				
Electrical Data					
Power supply(V,Hz)	220-240V/50Hz	110V/60Hz	220-240V/50Hz	110V/60Hz	110-240V, 50/60Hz
Power(W)	687	720	750	750	400
Rated Current(A)	5.42	10	5.57	10	9.4(110/60);4.7
Energy consumption(kWh/24h)	9.13	7.936	8.2	7.61	4.48
Others					
Noise dB(A)	52.5	54.3	51.4	55.4	47
Options	CO2 backup system		CO2 backup system		CO2 backup system
Racks	2		6		6
2" boxes	36		63		72(Remove the partition 90)

2-8°C Pharmacy Refrigerator

Undercounter Pharmacy Refrigerator
Digital Control Pharmacy Refrigerator
Touch Control Pharmacy Refrigerator
WHO-PQS 2~8°C Refrigerator



Undercounter Pharmacy Refrigerator

2–8°C Temperature Range

This compact refrigerator is designed to minimize footprint, making it ideal for use under or on top of workbenches less than 820 mm in height. It optimizes available space without sacrificing storage capacity and provides convenient access to stored items. Multiple alarm functions ensure the safety and integrity of temperature-sensitive pharmaceuticals.



Anti-Freeze Protection

To meet CDC compliance and prevent damage to temperature-sensitive vaccines (which must not be stored below 2°C), this series includes both digital and mechanical temperature controllers. These enable dual-layer protection by identifying and preventing dangerously low internal temperatures. Furthermore, since the bottom area of a chamber typically experiences the lowest temperature, the included anti-freeze basket design ensures that samples are shielded from direct contact with the cold inner wall—safeguarding against freezing-related damage.

Specialist in Medicine Storage

Designed in accordance with DIN 13277 standards, this unit meets key requirements for medical-grade refrigeration, including:

- Noise emission below 60 dB(A)
- Visual and audible alarms for high and low temperatures
- Capability for operating temperature recording
- Power failure alarms (visual and audible) with a minimum 12-hour duration

In addition, model YC-130L complies with NSF/ANSI 456, ensuring its reliability for professional vaccine storage applications.



YC-130L

YC-75L

Features



Air Cooling System

Equipped with an evaporator fan and a forced air-cooling system, this refrigerator ensures stable and reliable temperature control—even under frequent door openings and high ambient conditions. It effectively distributes air evenly throughout the chamber. The refrigeration system uses steel piping, which offers greater durability and significantly reduces the risk of refrigerant leakage compared to aluminium alternatives.



Clean and Green

Designed with sustainability in mind, the system uses environmentally friendly refrigerants with extremely low Global Warming Potential (GWP), in compliance with European Union Regulation (EU 517/2014). Additionally, the chamber insulation utilizes eco-friendly foaming agents, ensuring a reduced environmental impact without compromising performance.



Advanced Alarm System

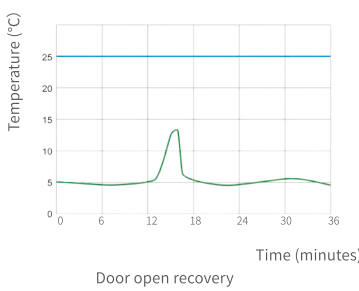
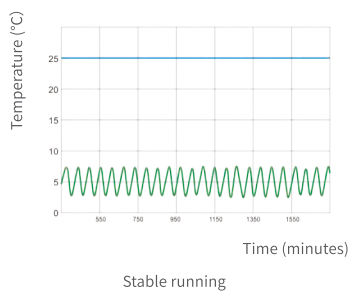
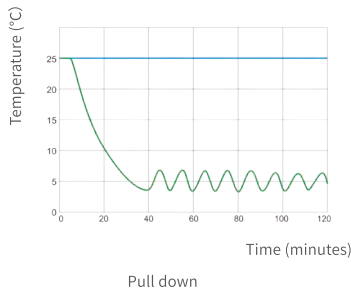
The high-precision microprocessor control system allows temperature settings accurate to 0.1°C and includes a comprehensive alarm suite. It provides visual and audible alerts for temperature deviations, sensor errors, door openings, and mains power failures—ensuring optimal protection for stored items. In the event of a power outage, the system is supported by a built-in backup battery, which maintains control panel operation and alarm functionality.



Stacking Kit

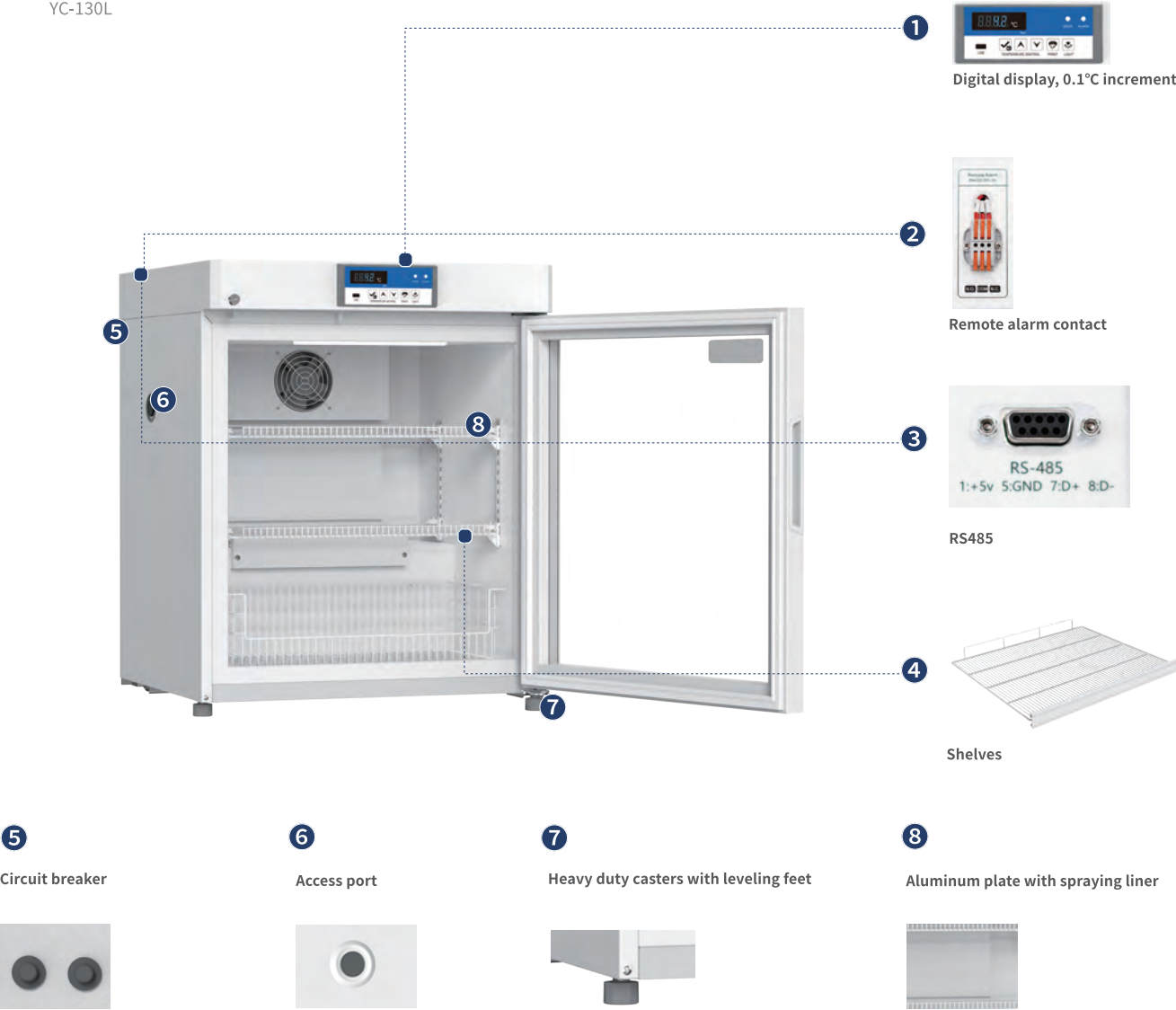
A specially designed stacking kit enables the secure stacking of a glass door appliance with a solid door refrigerator, or a refrigerator with a freezer, all on a compact footprint. To maintain optimal stability, roller sets must not be used with units installed using a stacking frame. Rollers are only suitable for standalone appliances.

Temperature Mapping



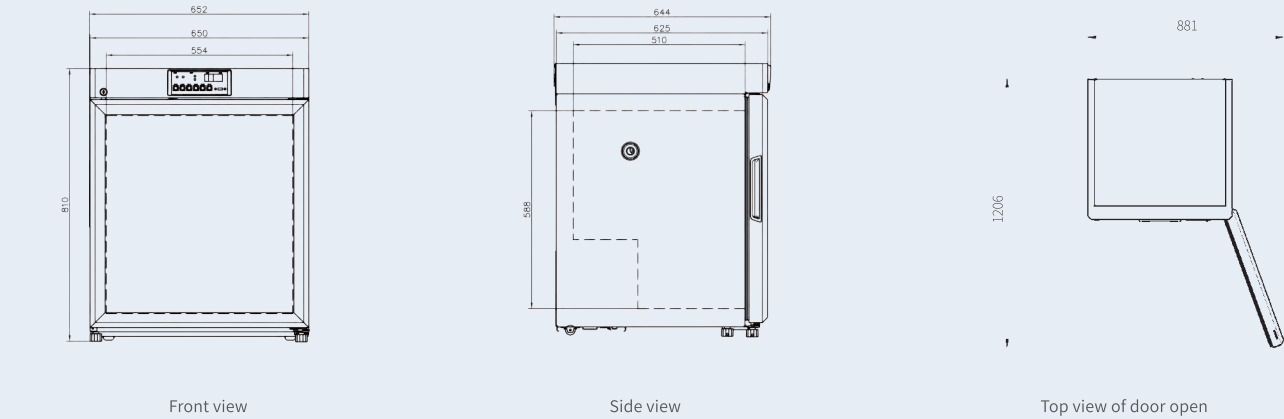
Structure

YC-130L



Product Dimensions

YC-130L



Specifications



2~8°C Pharmacy Refrigerator														
Model	YC-55L			YC-55EL		YC-75L		YC-75EL		YC-130L		YC-130EL		
Capacity(L)	55			55		75		55		130		130		
Temperature range (°C)	2~8°C			2~8°C		2~8°C		2~8°C		2~8°C		2~8°C		
Ambient temperature(°C)	16~32°C			16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		
Climate Class	N			N		N		N		N		N		
Internal dimensions (W x D x H mm)	444*440*404			444*440*404		444*440*536		444*440*536		554*510*588		554*510*588		
External dimensions (W x D x H mm)	540*560*632			540*560*632		540*560*764		540*560*764		650*625*810		650*625*810		
Net/Gross Weight(kg)	35/41			35/41		41/45		41/45		51/61		51/56		
Refrigeration system														
Cooling method	Air cooling													
Defrost method	Automatic													
Refrigerant	R600a								R290	R600a	R134a	R290 R600a		
Compressor	1pc													
Insulation material	PU													
Insulation thickness(mm)	L/R:48 B:50		D:53 L/R:48 B:50		L/R:48 B:50		D::58 L/R:48 B:50		L/R:48 B:50		D:55 L/R:48 B:50			
Control system														
Controller	Microprocessor													
Display	Digital display													
Display increment	0.1°C													
Access method	Password													
Alarms	High/Low temperature, High ambient temperature, Power failure,Low battery, Sensor error,Communication error,Door ajar,Data logger not connected													
Alarm mode	Audible, Visual and Remote alarm													
Backup battery	Yes													
Sensor	NTC													
Construction														
External material	PCM													
Internal material	Aluminum plate with spraying(Optional stainless steel)													
Shelves	2				3				2					
Shelf material	Coated steel wired shelf													
Shelf capacity	20kg								23kg					
Access port	1pcs. 25mm													
Lock with key	Yes													
Castor/feet	2/2													
Data logging & external connection														
USB interface	Yes													
Remote alarm contact	Yes													
RS485	Yes													
Electrical Data														
Power supply(V,Hz)	110/60	220-240/50	220-240/60	220-240/50	110/60	110/60	220-240/50	220-240/60	220-240/50	110/60	220-240/50	220-240/50/60	110/60	220-240/50
Power(W)	115	120	120	105	-	92	110	120	110	220	150	150	220	150
Rated Current(A)	1.16	0.9	0.56	0.9	0.79	1.24	0.92	0.56	0.92	2.28	0.98	1.1	1.66	0.98
Energy consumption(kWh/24h)	1.78	1.82	1.87	0.57	-	1.8	1.81	1.81	0.71	3.62	2.55	2.52	3.62	2.55
Noise dB(A)	40	40.2	40.5	40.2	40	40	38.7	40.5	38.7	42.5	41.8	42.3	42.5	41.8
Options	Printer, chart recorder (for 22 0-240,50/60 YC-130L)													
Certification	UL	CE	CE	UL	UL	CE	CE	UL	CE	UL	CE	UL	CE	UL

Digital Control Pharmacy Refrigerator

2-8°C

This series features a true air-cooling system with a finned evaporator and 360° forced air circulation, ensuring consistent and uniform temperature control throughout the chamber. For added safety, a mechanical thermostat is included to protect contents from accidental overcooling, preventing internal temperatures from falling below 2°C—ideal for sensitive pharmaceutical storage.



Anti-Freeze Design

To comply with CDC guidelines, which prohibit storing many vaccines below 2°C, this series features both digital and mechanical temperature controllers. This dual system helps monitor and prevent overcooling that could damage sensitive contents. Since the bottom of the chamber typically experiences the lowest temperatures, the anti-freeze basket design keeps samples elevated—protecting them from direct contact with the cold interior walls and preventing accidental freezing.

Specialist of Medicines Storage

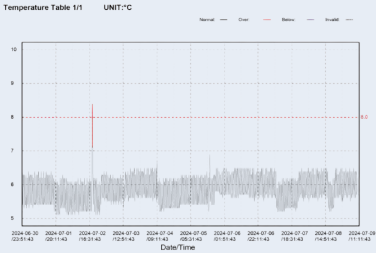
Engineered for medical-grade performance, this series complies with the DIN 13277 standard, meeting essential criteria such as:

- Noise emissions below 60 dB(A)
- Visual and audible alarms for high and low temperature deviations
- Recording capability for operating temperature
- Power failure alarms (visual and audible) with a minimum 12-hour backup duration



YC-395L

YC-1320L



Data Logging

The microprocessor controller integrates a data memory capable of storing up to 100,000 records, including maximum and minimum internal temperatures along with corresponding time, date, and duration. This information is accessible in both tabular and graphical formats and 12 months' data can be easily downloaded via the USB port on the controller.



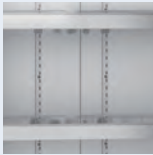
Data Interface

The appliance is equipped with a volt-free remote alarm contact to forward alerts to an external monitoring system. Additionally, it features an RS-485 serial interface that supports centralized documentation of temperature profiles and alarm events through the standard MODBUS protocol.



Alarm System

The microprocessor control system features temperature settings accurate to 0.1°C and integrates multiple alarm notifications, including alerts for temperature deviations, sensor errors, door openings, and power failure, etc. This comprehensive alarm system ensures optimal protection for your stored items. In the event of a power failure, built-in backup batteries immediately provide power to the controller, maintaining continuous monitoring.



Internal Fittings

Coated wire shelves are easily adjustable in height to meeting different storage requirements and have a loading capacity 100kg/m². Pull-out drawers are optional.

Features



Air Cooling System

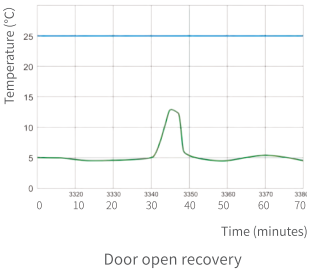
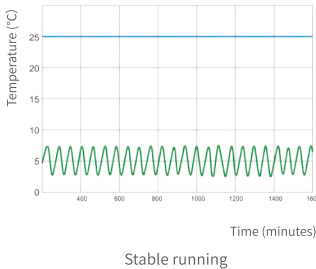
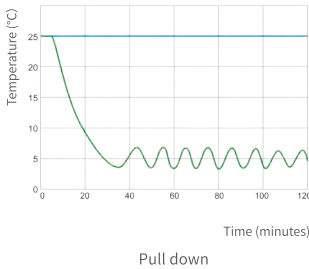
Equipped with a fin-type evaporator and forced air circulation, this system ensures stable and reliable temperature control—even with frequent door openings and in high ambient conditions. It effectively distributes air evenly throughout the chamber. The auto-defrost system ensures frost-free operation. Users never need to manually defrost, and there is no frost or ice buildup on the internal shelves or samples.



Clean And Green

This series uses eco-friendly refrigerants with ultra-low Global Warming Potential (GWP), compliant with EU Regulation (EU 517/2014)—ensuring long-term environmental responsibility. Additionally, the chamber insulation uses green foaming agents that are entirely environmentally safe, supporting sustainable design without compromising performance.

Temperature Mapping



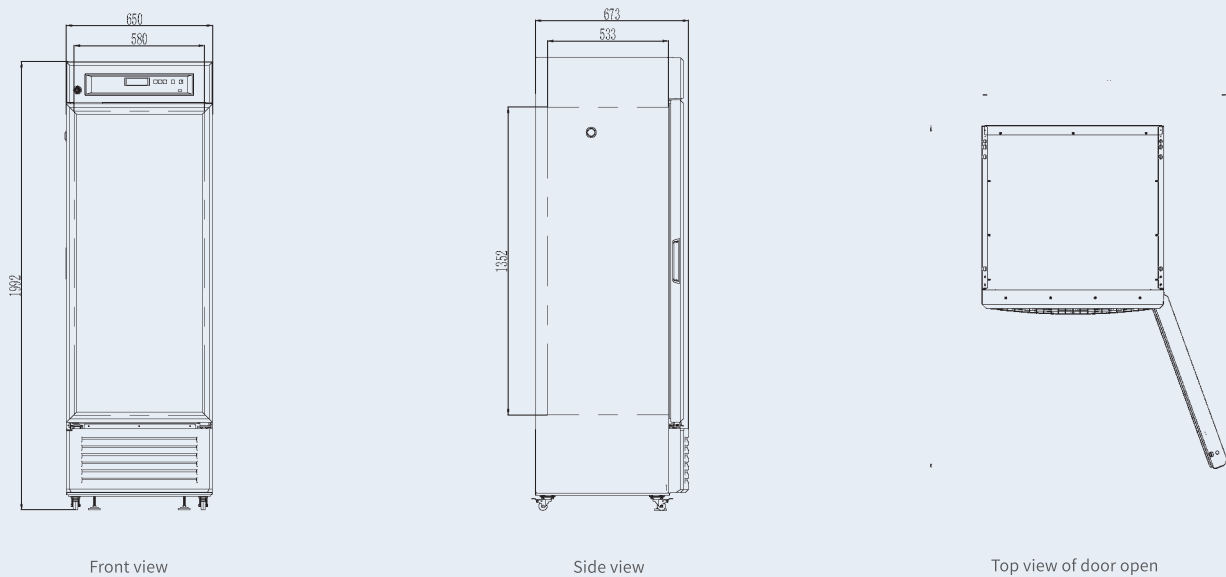
Structure
YC-395L



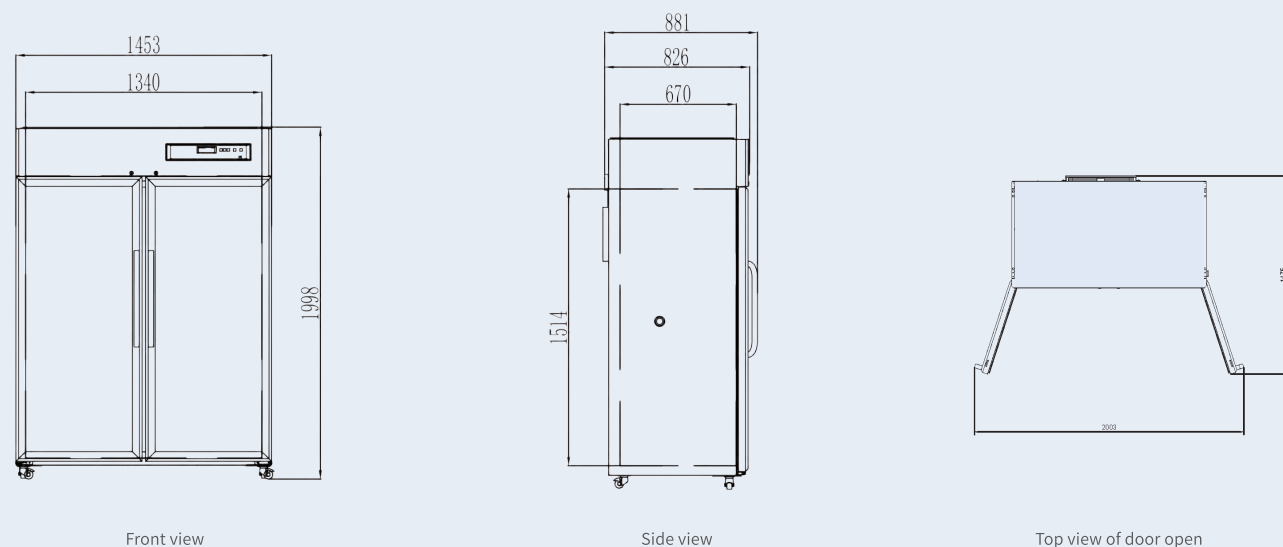
Structure
YC-1320L



Product Dimensions
YC-395L



Product Dimensions
YC-1320L





2~8°C Pharmacy Refrigerator																
Model	YC-315L		YC-395L		YC-400L		YC-525L		YC-650L		YC-725L		YC-1015L		YC-1320L	YC-1505L
Capacity(L)	315		395		400		525		650		725		1015		1320	1505
Temperature range (°C)	2~8°C		2~8°C		2~8°C		2~8°C		2~8°C		2~8°C		2~8°C		2~8°C	2~8°C
Ambient temperature(°C)	16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C	16~32°C
Climate Class	N		N		N		N		N		N		N		N	N
Internal dimensions (W x D x H mm)	580*533*1122		580*533*1352		604*520*1400		610*685*1264		605*725*1515		980*595*1260		1070*670*1515		1340*670*1515	1685*670*1514
External dimensions (W x D x H mm)	650*673*1762		650*673*1992		700*645*2010		720*810*1973		715*890*1985		1093*772*1992		1180*900*1990		1453*881*1998	1798*886*1997
Net/Gross Weight(kg)	87/99		95/108		116/130		141/166		157/185		171/208		223/259		258/350	322/414
Refrigeration system																
Cooling method	Air cooling		Air cooling		Air cooling		Air cooling		Air cooling		Air cooling		Air cooling		Air cooling	Air cooling
Defrost method	Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic	Automatic
Refrigerant	R290		R290		R290		R290		R290		R134a	R290	R134a	R290	R290	R290
Compressor	1pc		1pc		1pc		1pc		1pc		1pc		1pc		1pc	1pc
Insulation material	PU		PU		PU		PU		PU		PU		PU		PU	PU
Insulation thickness(mm)	L/R:35 B:52		L/R:35 B:52		L/R:48 B:50		L/R:55 B:55		L/R:55 B:55		L/R:55 B:55		L/R:55 B:55		L/R:55 B:55	L/R:55 B:55
Control system																
Controller	Microprocessor							Microprocessor								
Display	Digital display							Digital display								
Display increment	0.1°C							0.1°C								
Access method	Password							Password								
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , data logger not connected.							High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , data logger not connected.								
Alarm mode	Audible, Visual and Remote alarm							Audible, Visual and Remote alarm								
Backup battery	Yes							Yes								
Sensor	NTC							NTC								
Construction																
External material	PCM		PCM		PCM		PCM		PCM		PCM		PCM		PCM	PCM
Internal material	HIPS		HIPS		Stainless sheel		Sprayed aluminum plate		Stainless sheel		Sprayed aluminum plate		Sprayed aluminum		Stainless sheel	Stainless sheel
Shelves	4+1		6+1		6		6		5		12		12		10	18
Shelf material	Coated steel wired shelf						Coated steel wired shelf									
Shelf capacity	20kg		20kg		22kg		30kg		36kg		21kg		27.5kg		35kg	32kg
Access port	1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm	1pc. 25mm
Lock with key	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	Yes
Castor/feet	4/2		4/2		4/2		4/2		4/2		4/2		4/2		4/2	6/3
Data logging & external connection																
USB interface	Yes							Yes								
Remote alarm contact	Yes							Yes								
RS485	Yes							Yes								
Electrical Data																
Power supply(V,Hz)	110/60	220~240, 50/60	110/60	220~240, 50/60	110/60	220~240, 50/60	220~240, 50/60	220~240, 50/60	110/60	220~240, 50/60	110/60	220~240, 50/60	110/60	220~240, 50/60	220~240, 50/60	220~240, 50/60
Power(W)	380	280	400	290	410	458	380	480	460	570	540	650	930	710	900	
Rated Current(A)	4.3	1.77	4.76	1.39	4.74	2.23	2.17	3.06	5.77	3.9	8.2	3.78	10.55	6.2	5.2	
Energy consumption(kWh/24h)	3.46	3.55	3.51	3.43	4.1	5.28	3.86	4.88	5	8.46	8.12	8.5	10.05	9.784	A:12.38 B:12.23	
Noise dB(A)	48.5	44	48.8	46	51.5	48.5	48	50.9	49.58	52	52.8	46.5	53	52.4	52.5	
Options	Chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	Printer, chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	Printer, chart recorder	Printer, chart recorder	Printer, chart recorder	Printer, chart recorder
Certification	UL	CE	UL	CE	UL	CE	CE	CE	UL	CE	UL	CE	UL	CE	CE	CE



2~8°C Pharmacy Refrigerator										
Model	YC-315EL		YC-395EL		YC-400EL	YC-525EL	YC-650EL	YC-725EL	YC-1015EL	YC-1320EL
Capacity(L)	315		395		400	525	650	725	1015	1320
Temperature range (°C)	2~8°C		2~8°C		2~8°C	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C
Ambient temperature(°C)	16~32°C		16~32°C		16~32°C	16~32°C	16~32°C	16~32°C	16~32°C	16~32°C
Climate Class	N		N		N	N	N	N	N	N
Internal dimensions (W x D x H mm)	580*533*1122		580*533*1352		604*520*1400	610*685*1264	605*725*1515	980*595*1260	1070*670*1515	1340*670*1515
External dimensions (W x D x H mm)	650*652*1762		650*652*1992		700*645*2010	720*810*1973	715*890*1985	1093*772*1992	1180*900*1990	1453*881*1998
Net/Gross Weight(kg)	87/99		93/103	95/103	107/121	141/-	148/176	189/267	202/242	240/332
Refrigeration system										
Cooling method	Air cooling		Air cooling		Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
Defrost method	Automatic		Automatic		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Refrigerant	R600a		R600a		R290	R290	R290	R134a R290	R134a	R290
Compressor	1pc		1pc		1pc	1pc	1pc	1pc	1pc	1pc
Insulation material	PU		PU		PU	PU	PU	PU	PU	PU
Insulation thickness(mm)	D:55 L/R:35 B:52		D:53 L/R:35 B:52		D:53 L/R:48 B:50	D:53 L/R:55 B:55	D:62 L/R:55 B:55	D:53 L/R:55 B:55	D:53 L/R:55 B:55	D:62 L/R:55 B:55
Control system										
Controller	Microprocessor					Microprocessor				
Display	Digital display					Digital display				
Display increment	0.1°C					0.1°C				
Access method	Password					Password				
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , data logger not connected.					High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , data logger not connected.				
Alarm mode	Audible, Visual and Remote alarm					Audible, Visual and Remote alarm				
Backup battery	Yes					Yes				
Sensor	NTC					NTC				
Construction										
External material	PCM	PCM	PCM	PCM	PCM	PCM	PCM	PCM	PCM	
Internal material	HIPS	HIPS	Stainless sheel	Sprayed aluminum plate	Stainless sheel	Sprayed aluminum plate	Sprayed aluminum plate	Sprayed aluminum plate	Stainless sheel	
Shelves	4+1	6+1	6	6	6	5	12	12	10	
Shelf material	Coated steel wired shelf					Coated steel wired shelf				
Shelf capacity	20kg	20kg	22kg	30kg	36kg	21kg	27.5kg	35kg		
Access port	1pc. 25mm	1pc. 25mm	1pc. 25mm	1pc. 25mm	1pc. 25mm	1pc. 25mm	1pc. 25mm	1pc. 25mm		
Lock with key	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Castor/feet	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2		
Data logging & external connection										
USB interface	Yes					Yes				
Remote alarm contact	Yes					Yes				
RS485	Yes					Yes				
Electrical Data										
Power supply(V,Hz)	220~240, 50	110/60	220~240, 50	220~240, 50/60	220~240, 50	220~240, 50/60	220~240, 50/60	110/60	220~240, 50/60	
Power(W)	170	270	252	240	310	300	540	500	530	
Rated Current(A)	4.76	1.8	1.39	1.28	2.49	1.67	3.9	7.09	2.9	
Energy consumption(kWh/24h)	1.31	2.04	3	1.75	3.63	2.11	8.42	5.31	5.4	
Noise dB(A)	42.7	44.8	51.9	46.5	44.9	49.5	52.4	51.4	50.7/53.3(60Hz)	
Options	Printer, chart recorder	Chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	Printer, chart recorder	Printer, chart recorder	Chart recorder	Printer, chart recorder	
Certification	CE	UL	CE	CE	CE	CE	CE	UL	CE	

Touch Control Pharmacy Refrigerator

MAX



2-8°C

In addition to delivering precise temperature control and a comprehensive alarm system, this model features an intuitive touchscreen interface that enhances user experience with easy and convenient operation. It offers multiple access options, including fingerprint and card entry, and supports the option to add customizable drawers for flexible storage configurations.

Specialist in Medicine Storage

Our design complies with the DIN 13277 standard, incorporating essential features such as:

- Noise emission below 60 dB(A)
- Visual and audible alarms for high and low temperature thresholds
- Capability for operating temperature recording
- Visual and audible power failure alarms with a minimum backup duration of 12 hours

Anti-Freeze Design

In accordance with CDC compliance, many vaccines must not be stored below 2°C. This series features both digital and mechanical temperature controllers to continuously monitor and prevent temperatures from dropping too low, protecting sample integrity. Since the lowest temperature zone is typically near the bottom of the chamber, an anti-freeze basket design ensures that samples do not come into direct contact with the cold interior walls, preventing freeze damage.

TOUCH SCREEN



YC-650CL

YC-1320CL



Multiple Access Method

Standard password login is included, with optional card or fingerprint access for quick and secure entry.



Data Interface

The appliances include a volt-free remote alarm contact for forwarding alerts to external monitoring systems. They are also equipped with an RS-485 serial interface, enabling centralized documentation of temperature profiles and alarm events via the standard MODBUS protocol.

Features



Air Cooling System

Equipped with a fin-type evaporator and forced air circulation, this system ensures stable and reliable temperature control—even with frequent door openings and in high ambient conditions. It effectively distributes air evenly throughout the chamber. The auto-defrost system ensures frost-free operation. Users never need to manually defrost, and there is no frost or ice buildup on the internal shelves or samples.



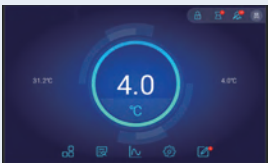
Clean and Green

The refrigerants used are environmentally responsible and future-proof, featuring an exceptionally low Global Warming Potential (GWP) in compliance with European Union Regulation (EU 517/2014). Additionally, the chamber insulation employs fully eco-friendly foaming agents, reinforcing the product's commitment to sustainability.



Alarm System

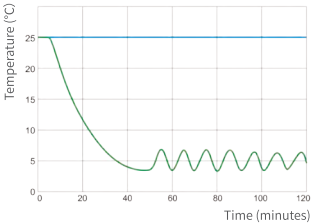
The microprocessor control system features temperature settings accurate to 0.1°C and integrates multiple alarm notifications, including alerts for temperature deviations, sensor errors, door openings, and power failure, etc. This comprehensive alarm system ensures optimal protection for your stored items. In the event of a power failure, built-in backup batteries immediately provide power to the controller, maintaining continuous monitoring.



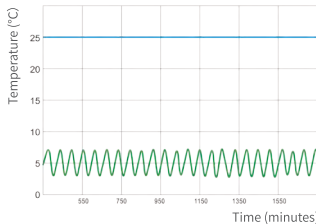
Touch Screen Interface

A 7-inch LCD touchscreen clearly displays set temperature, chamber temperature, ambient temperature, time, and date. It allows easy access to temperature graphs, alarm, and event records. The integrated data memory can log up to 10 years of data, including maximum and minimum internal temperatures with timestamps, available in both tabular and graphical formats. Data can be conveniently downloaded via the USB port.

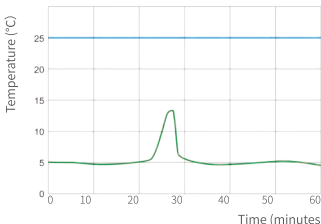
Temperature Mapping



Pull down



Stable running



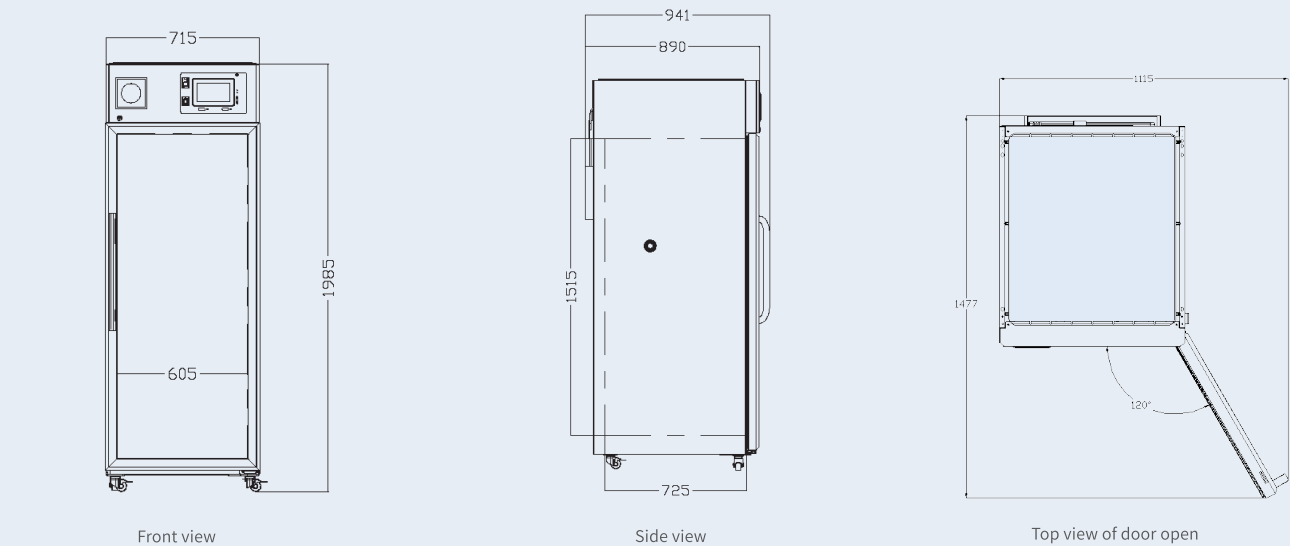
Door open recovery

Structure



Product Dimensions

YC-650CL



Specifications



2-8°C Touch Control Pharmacy Refrigerator						
Model	YC-650CL		YC-650CEL	YC-1320CL		YC-1320CEL
Capacity(L)	650		650	1320		1320
Temperature range (°C)	2~8°C		2~8°C	2~8°C		2~8°C
Ambient temperature(°C)	16~32°C		16~32°C	16~32°C		16~32°C
Climate Class	N		N	N		N
Internal dimensions (W x D x H mm)	605*725*1515		605*725*1515	1340*670*1515		1340*670*1515
External dimensions (W x D x H mm)	715*941*1985		715*941*1985	1453*881*1998		1453*881*1998
Net/Gross Weight(kg)	157/185		148/176	258/350		240/339
Refrigeration system						
Cooling method	Air cooling		Air cooling	Air cooling		Air cooling
Defrost method	Automatic		Automatic	Automatic		Automatic
Refrigerant	R290		R290	R290		R290
Compressor	1pc		1pc	1pc		1pc
Insulation material	PU		PU	PU		PU
Insulation thickness(mm)	L/R:55 B:62		D:62 L/R:55 B:55	L/R:55 B:55		D:62 L/R:55 B:55
Control system						
Controller	Microprocessor					
Display	Touch screen					
Display increment	0.1°C					
Access method	Password					
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , Battery power detection failure.					
Alarm mode	Audible, Visual and Remote alarm					
Backup battery	Yes					
Sensor	NTC					
Construction						
External material	PCM					
Internal material	Stainless steel					
Shelves	5	5		10		
Shelf material	Coated steel wired shelf					
Shelf capacity	36kg	32kg		35kg		
Access port	1pc. 25mm					
Lock with key	Yes					
Castor/feet	4 casters	4 casters+2 leveling feet		4 casters		4 casters+2 leveling feet
Data logging & external connection						
USB interface	Yes					
Remote alarm contact	Yes					
RS485	Yes					
Electrical Data						
Power supply(V,Hz)	110/60	220~240/ 50~60	220~240/50~60	110/60	220~240/ 50~60	220~240/50~60
Power(W)	510	480/460	300	955	890	500
Rated Current(A)	5.77	3.06	1.67	10.55	6.2/5.59	2.9
Energy consumption(kWh/24h):	4.97	4.88/4.73	2.24	11.469	10.15	4.73
Noise dB(A)	54.1	50.9/46.9	47.5	55.3	52.4/50.3/53.6	50.4
Options	Bluetooth printer, chart recorder					
Certification	UL	CE	/	UL	CE	/

WHO-PQS 2~8°C Refrigerator

2~8°C Ice-Lined Refrigerator

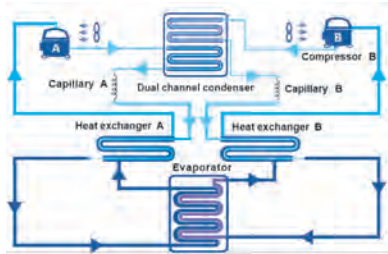
2~8°C Solar Direct Drive Refrigerator



WHO-PQS 2~8°C Refrigerator

2~8°C Temperature Range

For vaccine storage, in compliance with PQS, RoHS, CE and calibration testing.



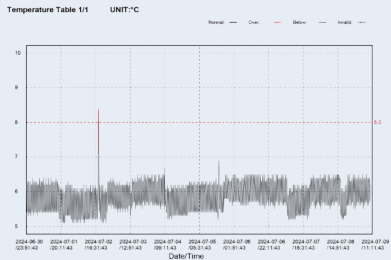
Dual Cooling System

Two independent refrigeration systems, each cooling system can provides 100% standby cooling capacity in case the other system fails during normal running. Double reliability ensures safe storage of vaccines.



Anti-corrosion

Stainless steel inner liner and copper evaporator/capillary tube, corrosion-resistant, avoiding refrigerant leakage.



Built-in Data Logger

Data logger in compliance with WHO/PQS/E006/DL01, which has the capacity to storage 1 year of data , allowing export of PDF data from the last 60 days and historical data folders via type-C USB port, facilitating the traceability of vaccine storage data.



Grade A freeze protection

User-independent freeze protection, no user intervention required, worry-free storage.

Features



1. Long Holdover/Autonomy time

At an ambient temperature of 43°C, our refrigerators can maintain the temperature with 2~8°C for up to 83 hours 7 min (YC-125EW) / 92 hours 27 min (TC-125WSDD) during a power outage, solving the problem of vaccine damage caused by unstable power or power outages.



Clean and Green

Designed with sustainability in mind, the system uses environmentally friendly refrigerants with extremely low Global Warming Potential (GWP), in compliance with European Union Regulation (EU 517/2014). Additionally, the chamber insulation utilizes eco-friendly foaming agents, ensuring a reduced environmental impact without compromising performance.



Advanced Alarm System

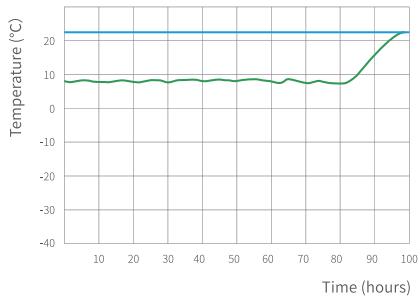
Multiple alarms, high/low temp alarm, sensor error alarm, high ambient temp alarm, power failure alarm, door ajar, low voltage, communication error alarm, ensuring the safety of vaccine storage.



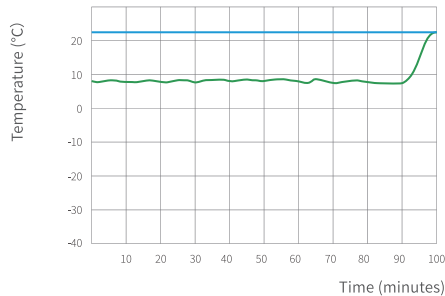
User friendly

Door hover design, 30~60° Door opening automatic hover, liberating hands makes it easier to access vaccines. Standard with baskets, convenient for storing different vaccines separately.

Temperature Mapping



YC-125EW Temperature holding time



TC-125WSDD Temperature holding time

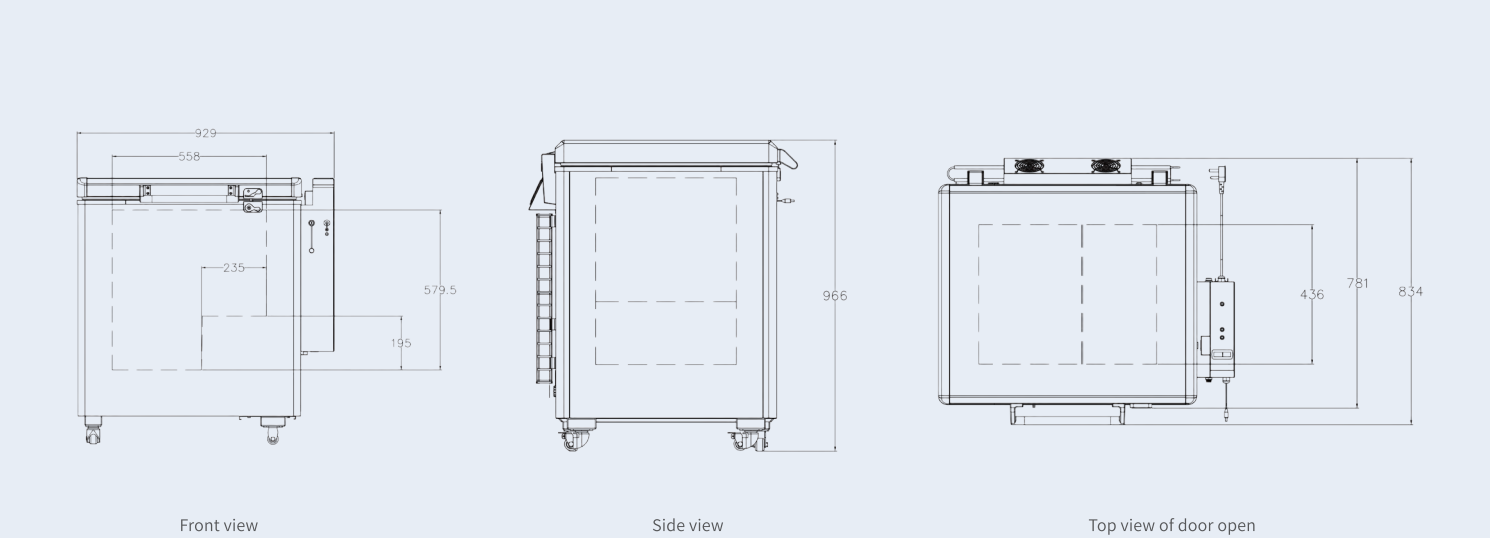
Structure

YC-125EW



Product Dimensions

YC-125EW



Specifications



WHO-PQS 2~8°C Refrigerator		
Model	YC-125EW	TC-125WSDD
Capacity(L)	125	125
Internal size (W x D x H mm)	558*436*579.5	558*436*579.5
External size (W x D x H mm)	929*834(781 After opening the door)*966	929*834(781 after opening the door)*966
Package size (W x D x H mm)	1000*885*1126	1000*885*1126
NW/GW(kg)	134/163	134/163
Refrigeration system		
Temperature range	2~8°C	2~8°C
Ambient temperature	5~43°C	5~43°C
Type of exterior door	Foam Door	Foam Door
Vaccine storage volume(L)	95	95
Vertical/Horizontal storage type	Horizontal	Horizontal
Display	LED	LED
Noise dB(A)	47.5	47.5
Holdover/Autonomy time	83h07min	92h27min
Compressor	2pcs	2pcs
Refrigerant	R600a	R600a
Construction		
External Material	Cold-rolled steel	Cold-rolled steel
Internal Material	Stainless steel	Stainless steel
Baskets	5	5
USB interface/data logging/USB data default export record length(in months)	Yes (Type-C)/record every 15 minutes/ PDF data for last 60 days and history data folder	Yes (Type-C)/record every 15 minutes/ PDF data for last 60 days and history data folder
Castors/Brakes	4/2	4/2
RS485	Yes	Yes
Number of exterior door	1	1
Door lock	Yes	Yes
Alarms		
Temperature	High ambient temperature alarm High/Low Temperature Alarm	High ambient temperature alarm High/Low Temperature Alarm
Electrical	Sensor failure alarm, low voltage alarm, power failure	Sensor failure alarm, low voltage alarm, power failure
System	Communication failure, door ajar	Communication failure, door ajar
Electrical Data		
Power Supply(V/Hz)	220~240,50/60	DC 24V
Rated current(A)	1.4	7.2
Input power(W)	210	150

4°C Blood Bank Refrigerator

4°C Digital Control BBR

4°C Touch Control BBR



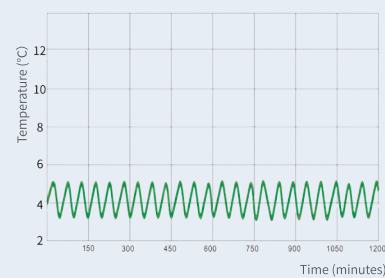


4°C LED BBR

4°C Blood Bank Refrigerator

The M-Blood Bank Refrigerator is specifically designed for the secure low-temperature storage of blood and blood products. It fully complies with the EU Medical Device Regulation 2017/745 (MDR) and the DIN 13277 standard, ensuring safety and reliability for critical blood banking applications.

Features



Supreme Temperature Control

Factory-set at 4°C to meet blood storage guidelines, this refrigerator employs multiple sensors and an anti-freeze device to maintain temperature within a precise range of 4±1°C. This stability prevents large fluctuations that could compromise the viability of stored blood cells.



Clean and Green

The blood bank refrigerator uses natural, eco-friendly refrigerants that meet safety standards. These hydrocarbons comply with the U.S. SNAP (Significant New Alternatives Policy) requirements and are fully aligned with the European Union Regulation (EU 517/2014). Additionally, the foaming agents used during manufacturing are strictly controlled to ensure environmental friendliness.



304 Stainless Steel Liner

The interior is finished with 304 stainless steel, the most commonly used stainless steel grade in medical devices. Renowned for its excellent biocompatibility, it is easy to clean and maintain, ensuring a hygienic storage environment.



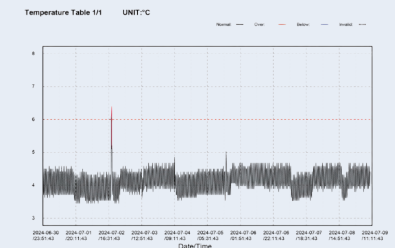
Anti-Freeze Design

An additional mechanical thermostat safeguards against temperatures dropping below 2°C in the event of electronic temperature control failure, providing extra protection for the safe storage of blood.



Easy Access to Items

The pull-out wire drawers or mobile baskets provide convenient storage and effortless retrieval of blood bags, enhancing user efficiency and organization.



Data Logging

The microprocessor controller includes integrated memory capable of storing up to 100,000 data points, capturing maximum and minimum internal temperatures along with corresponding time, date, and duration. Data is presented in both tabular and graphical formats and can be easily downloaded via the USB port on the controller.



Data Interface

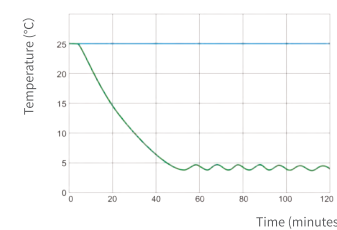
Equipped with a volt-free remote alarm contact for forwarding alerts to external monitoring systems, the unit also features an RS-485 serial interface that supports centralized documentation of temperature profiles and alarm events using the standard MODBUS protocol.



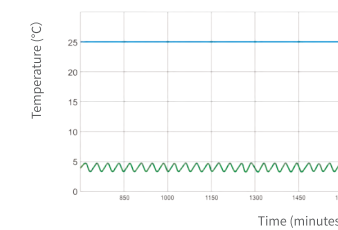
Multiple Alarm System

The microprocessor control system allows temperature settings with 0.1°C accuracy and includes 10 integrated alarm types, such as alerts for temperature deviations, sensor failures, door openings, and Power failure. In the event of a power outage, built-in backup batteries ensure uninterrupted controller operation and alarm monitoring.

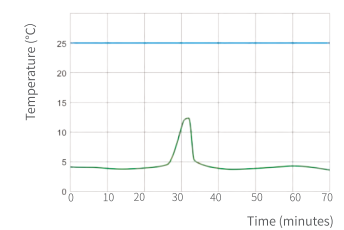
Temperature Mapping



Pull down



Stable running



Door open recovery

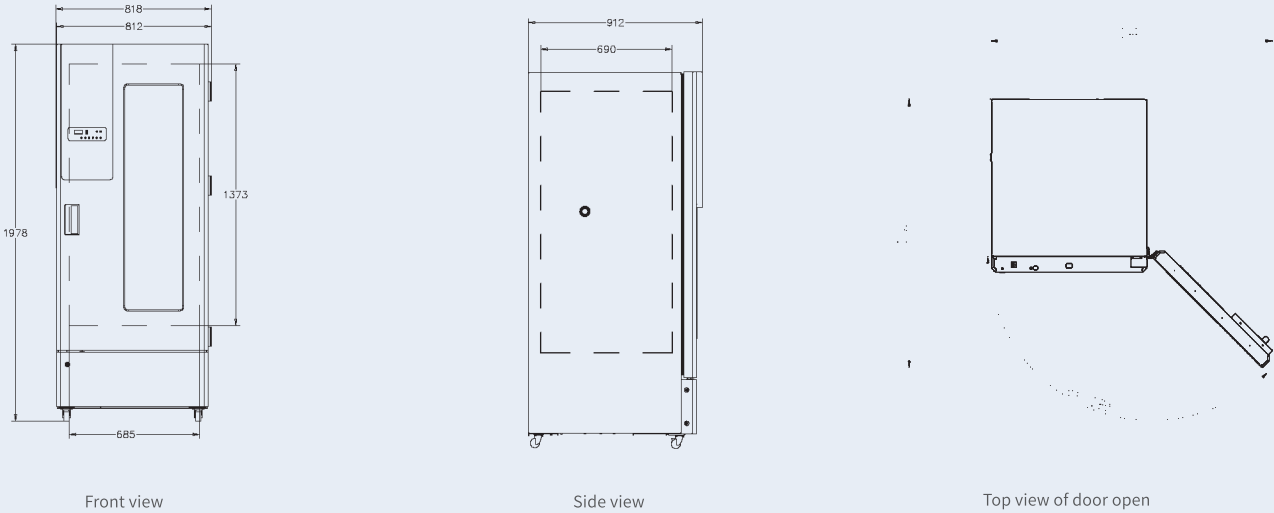
Structure

XC-380L



Product Dimensions

XC-630L



Specifications



4°C Blood Bank Refrigerator						
Model	XC-170L	XC-380L	XC-630L	XC-1380L		
Capacity(L)	170	380	630	1380		
Temperature range (°C)	2~6°C	2~6°C	2~6°C	2~6°C		
Ambient temperature(°C)	16~32°C	16~32°C	16~32°C	16~32°C		
Climate Class	N	N	N	N		
Internal dimensions (W x D x H mm)	525*550*744	604*494*1310	685*690*1373	1460*680*1512		
External dimensions (W x D x H mm)	654*774*1330	717*660*1999	818*912*1978	1560*940*1978		
Net/Gross Weight(kg)	106/135	134/154	185/233	367/472		
Refrigeration System						
Cooling method	Air cooling	Air cooling	Air cooling	Air cooling		
Defrost method	Automatic	Automatic	Automatic	Automatic		
Refrigerant	R290	R290	R290	R600a		
Compressor	1pc	1pc	1pc	1pc		
Insulation material	PU	PU	PU	PU		
Insulation thickness(mm)	L/R:55 B:50	L/R:48 B:50	L/R:55 B:50	L/R:50 B:50		
Control System						
Controller	Microprocessor					
Display	Digital display					
Display increment	0.1°C					
Access method	Password					
Alarms	High/Low temperature, high ambient temperature,Power failure, low battery, Sensor error,communication error,door ajar, hot condenser, data logger not connected(except XC-1380L).					
Alarm mode	Audible, Visual and Remote alarm					
Backup battery	Yes					
Sensor	NTC+mechanical					
Construction						
External material	PCM					
Internal material	Stainless steel					
Shelves	3	5	6			
Shelf material	Q235					
Shelf capacity	22kg	21kg	32kg	38kg		
Access port	1pcs. 25mm					
Lock with key	Yes					
Castor/feet	4/2				6/3	
Data Logging & External Connection						
USB interface	Yes					
Remote alarm contact	Yes					
RS485	Yes					
Electrical Data						
Power supply(V,Hz)	220~240,50/60	220~240,50/60	110/60	110/60	220~240,50/60	220-240,50/60
Power(W)	345	320	160	500	470	360
Rated Current(A)	1.69	2.2	1.1	5.59	3	3.0
Energy consumption(kWh/24h):	3.5	2.897	2.23	4.83	4.85	6.473
Noise dB(A)	42.3	43.9	40.6	51.7	51.9	48.8
Options	Printer, chart recorder					
Certification	CE	CE	UL	UL	CE	CE



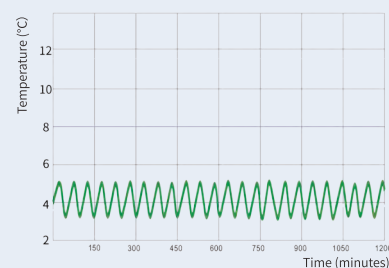
4°C LCD BBR

4°C Blood Bank Refrigerator

This Blood Bank Refrigerator is designed for the low-temperature storage of blood and blood products. It fully complies with EU Medical Device Regulation 2017/745 (MDR) and DIN 13277 standards, ensuring reliable and safe blood storage.



Features



Supreme Temperature Control

Factory-set at 4°C to meet blood storage guidelines, this refrigerator uses multiple sensors and an anti-freeze device to maintain temperatures within $4 \pm 1^\circ\text{C}$. This precise control prevents large fluctuations that could impair the viability of stored blood cells.



Clean and Green

The refrigerator uses natural, environmentally friendly gases as refrigerants, ensuring safe and sustainable operation. These natural hydrocarbon refrigerants comply with the U.S. SNAP (Significant New Alternatives Policy) requirements and align with the European Union Regulation (EU 517/2014). Additionally, the foaming agents used during manufacturing are strictly controlled to be environmentally friendly.



304 Stainless Steel Liner

The interior is finished with 304 stainless steel, the most widely used grade in medical devices due to its excellent biocompatibility. It is easy to clean thoroughly, ensuring a hygienic and safe storage environment.



Anti-Freeze Design

An additional mechanical thermostat guarantees that the temperature will not drop below 2°C , even if the electronic temperature control fails, providing an extra layer of protection for safe blood storage.



Pull-Out Drawers

The pull-out drawers provide easy access for storing and retrieving blood bags. Made of 304 stainless steel, they are antibacterial and simple to clean, ensuring a hygienic storage environment.



7" Touch Screen

The 7-inch LCD touchscreen clearly displays the set temperature, chamber temperature, ambient temperature, time, and date. It offers easy access to temperature graphs, alarm notifications, and event records. The integrated data memory can log up to 10 years of data, including maximum and minimum internal temperatures along with timestamps, presented in both tabular and graphical formats. All data can be conveniently downloaded via the USB port.



Data Interface

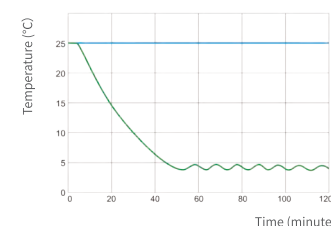
The appliance is equipped with a volt-free remote alarm contact for forwarding alerts to an external warning system. It also features an RS-485 serial interface, enabling centralized documentation of temperature profiles and alarm events via the standard MODBUS protocol.



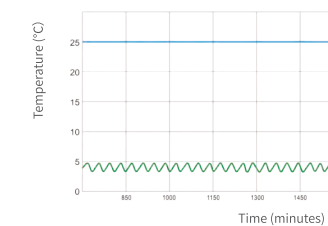
Multiple Access Methods

Standard access is provided via password login, with optional card or fingerprint authentication available for quick and secure entry.

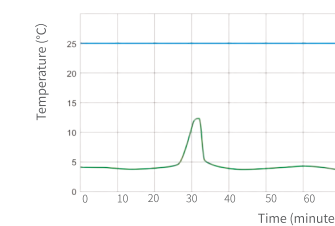
Temperature Mapping



Pull down



Stable running



Door open recovery

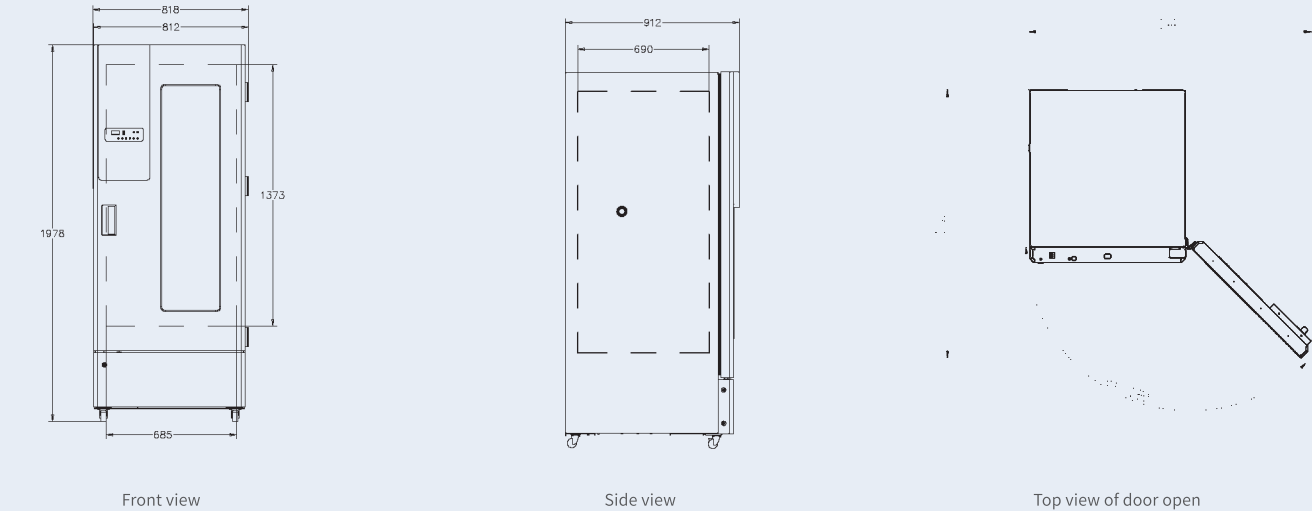
Structure

XC-618L



Product Dimensions

XC-618L



Specifications



4℃ Blood Bank Refrigerator					
Model	XC-168L		XC-618L		XC-1378L
Capacity(L)	168		618		1378
Temperature range (℃)	2~6℃		2~6℃		2~6℃
Ambient temperature(℃)	16~32℃		16~32℃		16~32℃
Climate Class	N		N		N
Internal dimensions (W x D x H mm)	525*550*744		685*690*1373		1460*680*1512
External dimensions (W x D x H mm)	654*774*1330		818*942*1978		1560*940*1978
Net/Gross Weight(kg)	116/144		218/257		443/508
Refrigeration System					
Cooling method	Air cooling		Air cooling		Air cooling
Defrost method	Automatic		Automatic		Automatic
Refrigerant	R290		R290		R600a
Compressor	1pc		1pc		1pc
Insulation material	PU		PU		PU
Insulation thickness(mm)	L/R:55 B:50		L/R:55 B:50		L/R:50 B:50
Control System					
Controller	Microprocessor				
Display	Touch screen	Touch screen		Touch screen	
Display increment	0.1℃				
Access method	Password				
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error,communication error,door ajar, hot condenser , battery power detection failure.				
Alarm mode	Audible, Visual and Remote alarm				
Backup battery	Yes				
Sensor	NTC+Mechanical				
Construction					
External material	PCM				
Internal material	Stainless steel				
Shelves	3	3		6	
Shelf material	Stainless steel				
Shelf capacity	20kg	32kg		35kg	
Access port	1pcs. 25mm				
Lock with key	Yes				
Castor/feet	4/2			6/3	
Data Logging & External Connection					
USB interface	Yes				
Remote alarm contact	Yes				
RS485	Yes				
Electrical Data					
Power supply(V,Hz)	110, 60	220~240, 50/60	110/60	220~240, 50/60	220~240, 50/60
Power(W)	270	360	525	480	450
Rated Current(A)	2.8	1.79	5.59	3.2	3.2
Energy consumption(kWh/24h)	3.209	3.5	5.39	5.12	7.149
Noise dB(A)	47	42.3	52	51.5	47
Options	Printer, chart recorder				
Certification	UL	CE	UL	CE	CE

Combined Refrigerator and Freezer





Combined Refrigerator and Freezer

The combined refrigerator and freezer features dual-compressor refrigeration with Eco-friendly technology. Its two independent display panels provide enhanced control and monitoring, ensuring comprehensive protection for stored samples.



YCD-EL300 YCD-EL450

Features



Multi-Purpose Design
The unit combines an upper refrigerator chamber (2–8°C) and a lower freezer chamber in a single cabinet, each with its own door. This dual-function design meets different temperature storage needs in one compact unit, offering both cost-efficiency and space savings.



Dual Control & Display
Each chamber operates on an independent refrigeration system, ensuring that if one system fails, the other continues to function normally. The unit includes two separate digital displays, each showing the temperature of its respective chamber with 0.1°C precision, allowing for accurate and reliable monitoring.



Clean and Green
The product uses natural, eco-friendly refrigerants to ensure safe and sustainable operation. These natural hydrocarbon refrigerants are SNAP-compliant as required by the United States Environmental Protection Agency and are also in full compliance with European Union Regulation (EU 517/2014). Additionally, the foaming agents used during manufacturing are strictly controlled to be environmentally friendly, supporting global efforts for a greener future.



Data Logger
The integrated microprocessor controller includes a data memory capable of storing up to 100,000 records, capturing maximum and minimum internal temperatures along with the corresponding time, date, and duration. Data is available in both tabular and graphical formats and can be conveniently downloaded via the USB port on the controller.



Data Interface
The product is equipped with a volt-free remote alarm contact for forwarding alarms to an external monitoring system. Additionally, an RS-485 serial interface enables centralized documentation of temperature profiles and alarm events via the MODBUS protocol, supporting seamless integration with building or facility management systems.



Alarm System
The microprocessor control system includes 9 integrated alarm types, covering temperature deviations, sensor failures, door openings, and Power failure, etc.—ensuring maximum protection for stored items. In the event of a power failure, built-in backup batteries automatically power the controller, maintaining full alarm and monitoring functionality.

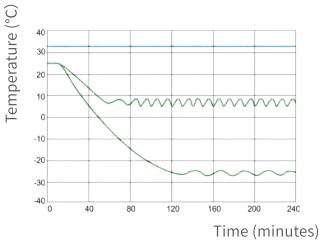


Monitor-Easy-Access Port
Each chamber is equipped with a dedicated test port, allowing users to insert a probe from a third-party monitoring device to independently track internal temperature conditions.

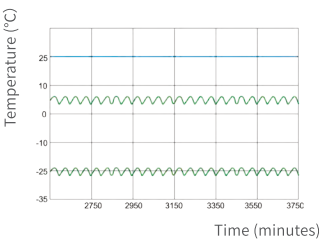


Universal Casters
The unit features four universal casters for smooth mobility. The two front casters are equipped with brakes, enabling easy repositioning and secure placement of the equipment when needed.

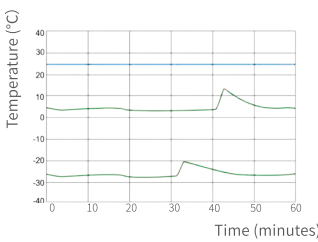
Temperature Mapping



Pull down



Stable running



Door open recovery

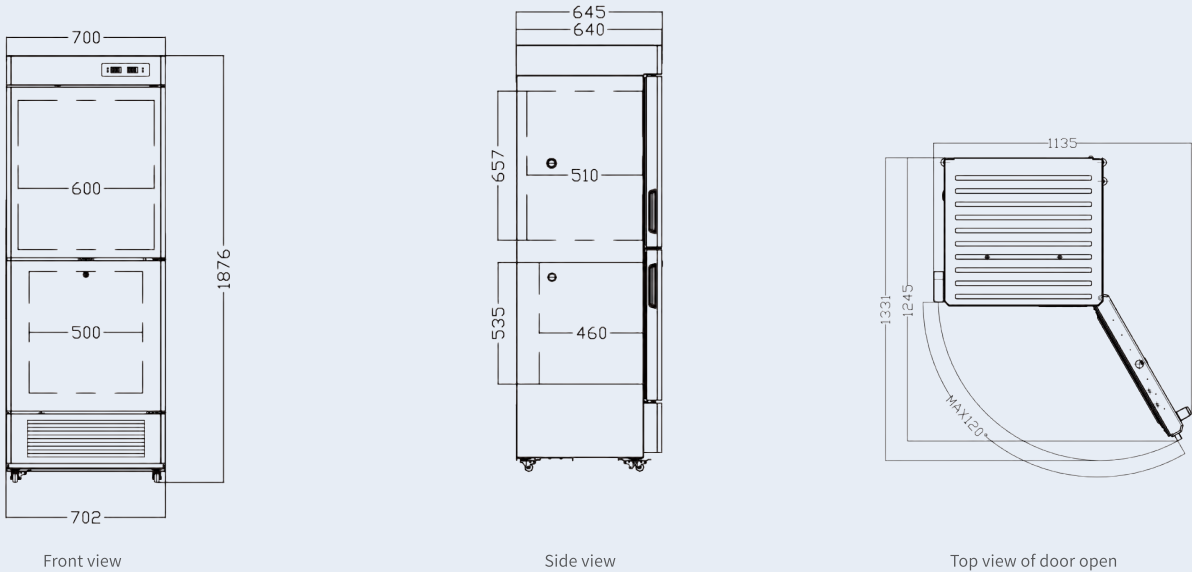
Structure

YCD-EL300



Product Dimensions

YCD-EL300



Specifications



Combined Refrigerator and Freezer						
Model	YCD-EL300			YCD-EL450		
Capacity(L)	300			450		
Temperature range (°C)	R: 2~8°C F: -10~-26°C			R: 2~8°C F: -10~-26°C		
Ambient temperature(°C)	16~32°C			16~32°C		
Climate Class	N			N		
Internal dimensions (W x D x H mm)	R: 600*510*657/602*507*665 F: 500*460*535/505*450*533			R: 650*570*627 F: :650*570*627		
External dimensions (W x D x H mm)	700*640*1876			810*735*1960		
Net/Gross Weight(kg)	95/106			144/156		
Refrigeration System						
Cooling method	R: Air Direct cooling F: Direct cooling					
Defrost method	R: Automatic F: Manual					
Refrigerant	R600a					
Compressor	1pc					
Insulation material	PU					
Insulation thickness(mm)	R: L/R80/50 B: 50 F: L/R:90/100 B:100			L/R:76/80 B:80		
Control System						
Controller	Microprocessor					
Display	Digital display					
Display increment	0.1°C					
Access method	Password					
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error, communication error, door ajar, data logger not connected					
Alarm mode	Audible, Visual and Remote alarm					
Backup battery	Yes					
Sensor	NTC					
Construction						
External material	PCM					
Internal material	Sprayed aluminum plate					
Shelves/drawers	3/3			3/6		
Shelf material						
Shelf capacity	22kg			29kg		
Access port	2pcs. 25mm					
Lock with key	Yes					
Castor/feet	4/2					
Data Logging & External Connection						
USB interface	No					
Remote alarm contact	Yes					
RS485	Yes					
Electrical Data						
Power supply(V,Hz)	220-240V/50	110V/60	220-240V/60	220-240V/50	220-240V/60	110V/60
Power(W)	300	260	180	276	287	270
Rated Current(A)	1.37	3.17	1.76	2.1	1.84	3
Energy consumption(kWh/24h):	1.54	1.949	1.44	3.29	3	3.22
Noise dB(A)	42.5	/	44.8	47.5	50.2	50.4
Options	Printer					
Certification	CE	UL	CE	CE	CE	UL



Combined Refrigerator and Freezer

The YCD-FL289, YCD-FL519 combines a refrigerator and freezer in one unit, each with its own independent refrigeration system to ensure reliable and secure sample storage. An extra door latch enhances security, while the easy-to-clean 304 stainless steel interior supports hygiene and durability. The unit also features a high-precision digital display for accurate temperature monitoring, providing convenience and confidence with every use.



YCD-FL519 YCD-FL289

Features



Multi-Purpose Design

The unit combines an upper refrigerator chamber (2–8°C) and a lower freezer chamber within a single cabinet, each with its own door. This integrated design meets varied storage requirements while saving both cost and space by eliminating the need for two separate units.



Dual Control & Display

Each chamber operates on an independent refrigeration system, ensuring that if one system fails, the other continues to function normally. The unit includes two separate digital displays, each showing the temperature of its respective chamber with 0.1°C precision, allowing for accurate and reliable monitoring.



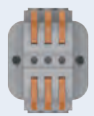
Clean and Green

The product using natural green gases as refrigerant to fulfill these conditions for safe usage. Also these used natural hydrocarbon refrigerant follow SNAP compliant requested by United States of America as natural hydrocarbon refrigerants; This is also supported by European Union Regulation (EU_517/2014). The Foaming agent used during manufac-turing are completely controlled as environmental friendly



Data Logger

The integrated microprocessor controller includes a data memory capable of storing up to 100,000 records, capturing maximum and minimum internal temperatures along with the corresponding time, date, and duration. Data is available in both tabular and graphical formats and can be conveniently downloaded via the USB port on the controller.



Data Interface

The product is equipped with a volt-free remote alarm contact for forwarding alarms to an external monitoring system. Additionally, an RS-485 serial interface enables centralized documentation of temperature profiles and alarm events via the MODBUS protocol, supporting seamless integration with building or facility management systems.



Alarm System

The microprocessor control system includes 9 integrated alarm types, covering temperature deviations, sensor failures, door openings, and Power failure, etc.—ensuring maximum protection for stored items. In the event of a power failure, built-in backup batteries automatically power the controller, maintaining full alarm and monitoring functionality.



Anti-Corrosion Interior Finishing

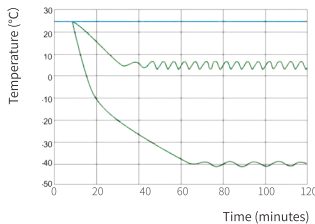
Hygiene and ease of cleaning are essential in laboratories, research environments, and the medical field. That's why the interior lining and shelves are constructed from rust-proof stainless steel, ensuring durability and making cleaning fast and effective.



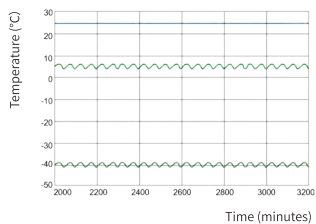
Secure Door Latch

To prevent the outer door from bouncing back when not closed with proper force, an extra door latch ensures a tight seal and prevents cold air leakage. Additionally, the latch is designed to allow the use of a padlock, providing enhanced security for stored items.

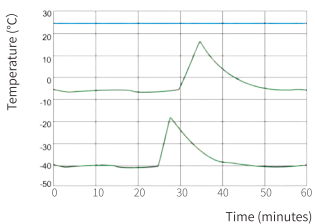
Temperature Mapping



Pull down



Stable running



Door open recovery

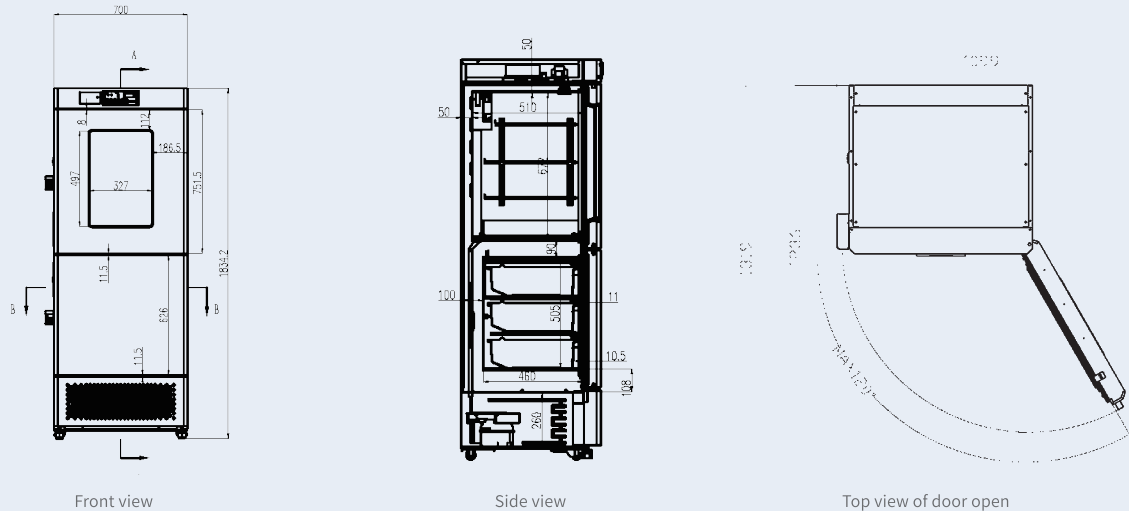
Structure

YCD-FL289



Product Dimensions

YCD-FL289



Specifications



Combined Refrigerator and Freezer						
Model	YCD-FL289			YCD-FL519		
Capacity(L)	289			519		
Temperature range (°C)	R: 2~8°C F: -10~-40°C			R: 2~8°C F: -20~-40°C		
Ambient temperature(°C)	16~32°C			16~32°C		
Climate Class	N			N		
Internal dimensions (W x D x H mm)	R: 600*510*710 F: 500*460*505			R: 750*610*740 F: 650*560*565		
External dimensions (W x D x H mm)	700*640*1845			910*740*1972		
Net/Gross Weight(kg)	143/165			186/215		
Refrigeration System						
Cooling method	R: Forced air cooling F: Direct cooling					
Defrost method	R: Automatic F: Manual					
Refrigerant	R: R600a F: R290	R: R134a F: R290	R: R600a F: R290	R: R600a F: R290	R: R290 F: R290	R: R600a F: R290
Compressor	2pcs					
Insulation material	PU					
Insulation thickness(mm)	L/R/B: LC: 50 LD: 100			L/R/B: LC: 50 LD: 100		
Control System						
Controller	Microprocessor					
Display	Digital display					
Display increment	0.1°C					
Access method	Password					
Alarms	High/Low temperature, high ambient temperature,Power failure, low battery, Sensor error,communication error,door ajar, data logger not connected					
Alarm mode	Audible, Visual and Remote alarm					
Backup battery	Yes					
Sensor	NTC					
Construction						
External material	Cold rolled steel					
Internal material	Stainless steel					
Shelves/drawers	3+1/3			3+1/6		
Shelf material	Stainless steel +ABS					
Shelf capacity	22kg			29kg		
Access port	2pcs. 25mm					
Lock with key	Yes					
Castor/Brake	4/2					
Data Logging & External Connection						
USB interface	Yes					
Remote alarm contact	Yes					
RS485	Yes					
Electrical Data						
Power supply(V,Hz)	220-240V/50	110V/60	220-240V/60	220-240V/50	110V/60	220-240V/60
Power(W)	330	370	320	398	365	425
Rated Current(A)	2.5	5.52	3.01	3.57	6.51	3.61
Energy consumption(kWh/24h):	4.3	4.78	3.82	5.17	4.847	4.89
Noise dB(A)	51.4	51	51.6	47.2	52.8	51
Options	Printer					
Certification	CE	UL	CE	CE	UL	CE

Biomedical Freezers: -25°C/-30°C/-40°C

-10°C~-25°C Biomedical Freezer

-15°C~-30°C Biomedical Freezer

-40°C ULT Freezer



-25°C / -30°C / -40°C Freezer

Ideal for Space-Constrained Environments

Engineered for inch-by-inch laboratory and clinical settings, this compact freezer offers powerful cooling performance and precise temperature control — ensuring both convenience and sample safety.



DW-YL90

DW-FL270

Key Features

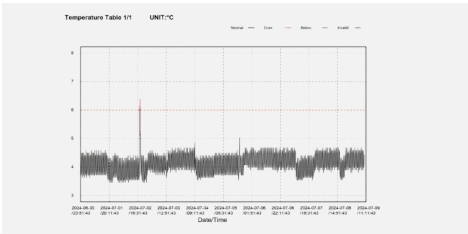


Clean and Green

Utilizing environmentally friendly natural hydrocarbon refrigerants, the freezer meets SNAP compliance (U.S.) and adheres to EU Regulation (EU_517/2014). The foaming agents used in insulation are fully controlled and eco-conscious, supporting sustainable operation.

Data Logging & Connectivity

Easily export temperature records, event logs, and access data via USB port in PDF format. The integrated RS485 interface allows connection to Building Management Systems (BMS) for real-time data exchange. A dry contact terminal board enables external remote alarm triggering for enhanced monitoring.



Intelligent Alarm System

A high-precision microprocessor control system with 0.1°C accuracy manages the temperature and integrates 10 alarm types, including temperature deviation, sensor failure, door ajar, and power outage. In case of power loss, built-in backup batteries ensure the controller remains operational to safeguard your valuable samples.



DW-YL/FL90 – Compact Freezer

Flexible & Space-Saving Design

Ideal for tight laboratory environments, this compact freezer offers flexible placement — under or on workbenches, counters, or near workstations — while maximizing accessibility without compromising storage capacity.

Optimized Interior Layout

Individually separated drawers enhance space utilization, improve sample organization, and simplify access and inventory management.

DW-YL/FL270 – Ergonomic & Secure

Patented Ergonomic Handle

The specially designed handle ensures easy and comfortable access to stored samples, enhancing daily operational efficiency.

Enhanced Sample Security

Equipped with a standard door lock and optional external padlock, this model supports strict access control to maintain a secure storage environment for sensitive or high-value samples.



BLOOD BANK SOLUTION



DW-YL/FL450 – High Capacity & Security

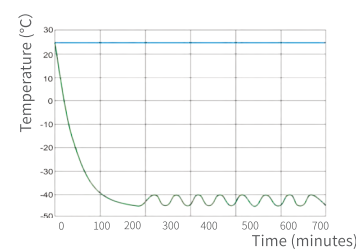
Maximum Storage Efficiency

Like the FL90, the FL450 features individually separated drawers to improve internal organization, increase storage density, and streamline sample handling.

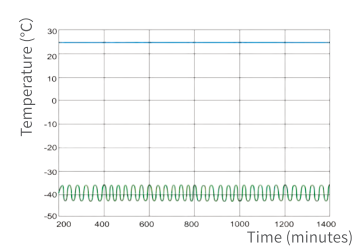
Comprehensive Access Control

Designed with both standard locking mechanisms and an option for external padlock security, the FL450 ensures sample integrity through controlled access protocols.

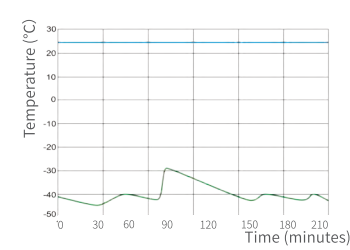
Temperature Mapping



Pull down

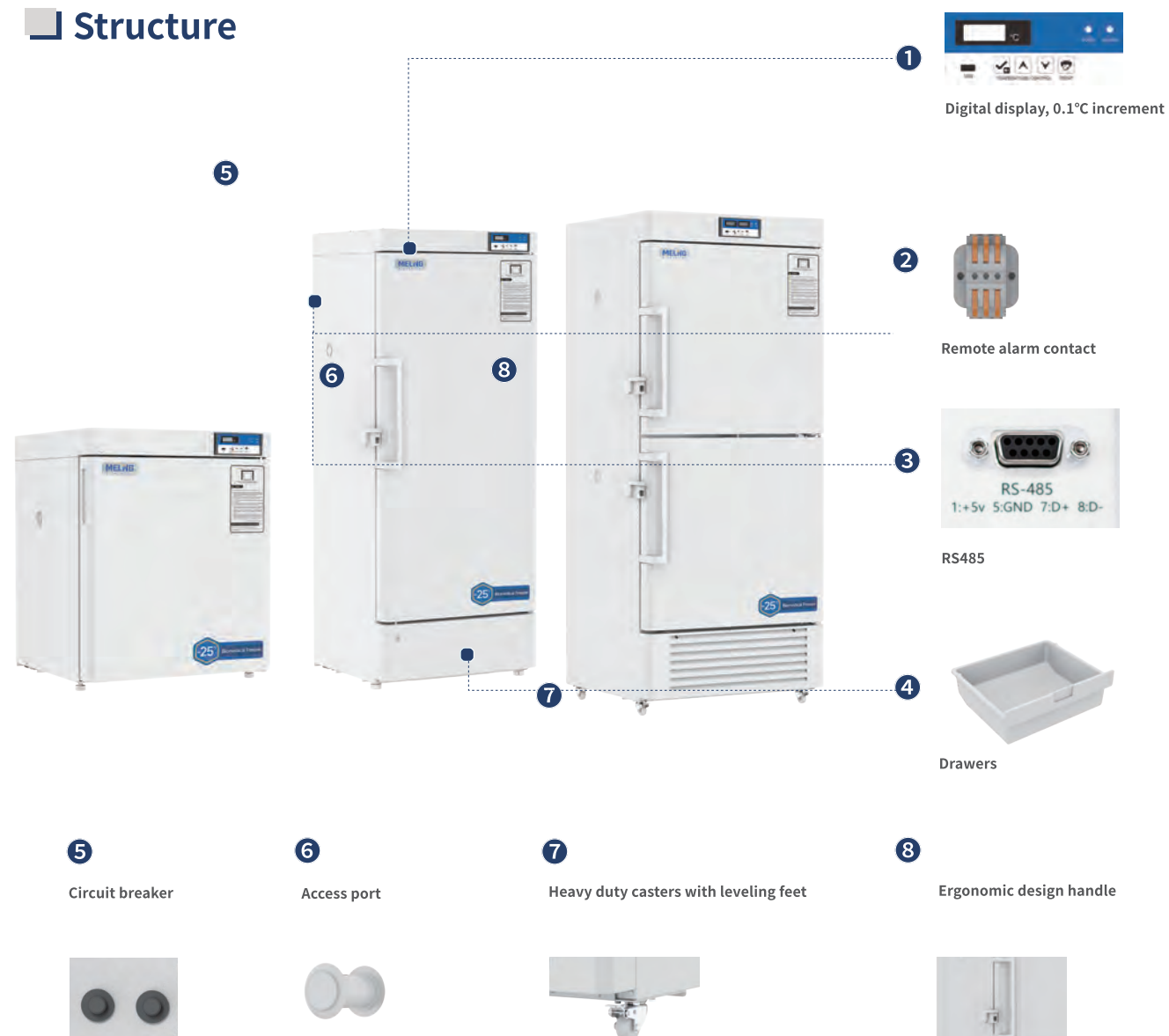


Stable running



Door open recovery

Structure



Product Dimensions

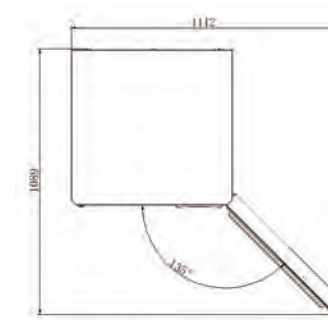
DW-YL90/FL90



Front view

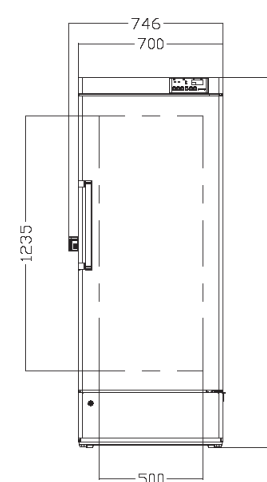


Side view

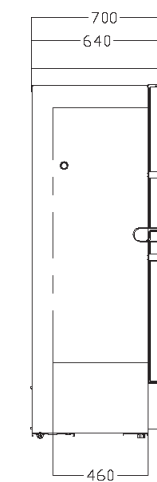


Top view of door open

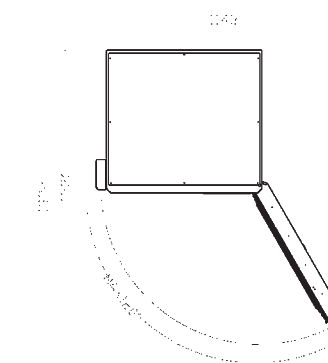
DW-YL270/FL270



Front view

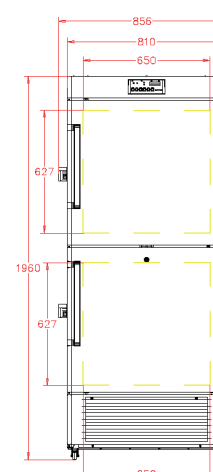


Side view

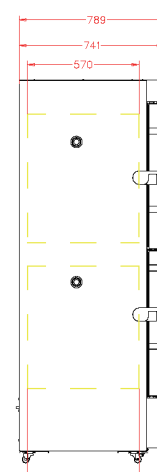


Top view of door open

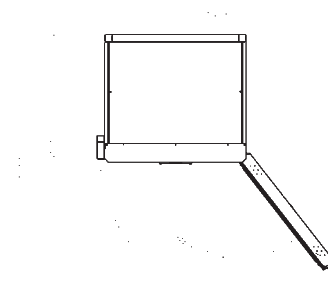
DW-YL450/FL450



Front view



Side view



Top view of door open



Features

DW-XL90



Slim and Built-in Installation Capability

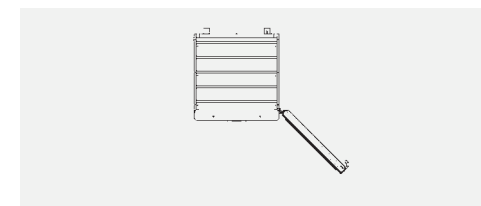
The compact size of 600×620×810mm is ideal for installation in most laboratory and pharmacy environments. Its undercounter height of less than 32 inches complies with ADA (Americans with Disabilities Act) guidelines, providing accessibility without compromising storage capacity or functionality. The front-breathing ventilation system allows for seamless built-in installation, eliminating concerns about limited space at the sides or rear of the freezer. Ideal for undercounter or tight-space applications without compromising performance.

Flexible Storage

The height of the internal coated steel wire shelves is adjustable, which is convenient to meet users' different storage needs.



DW-XL668

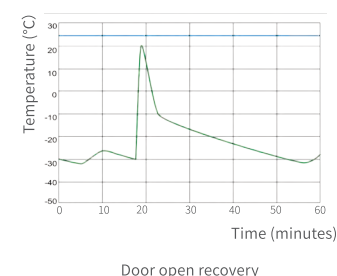
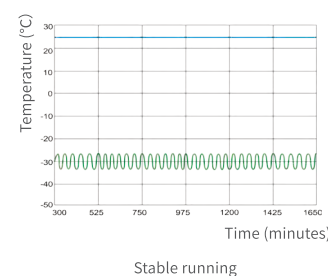
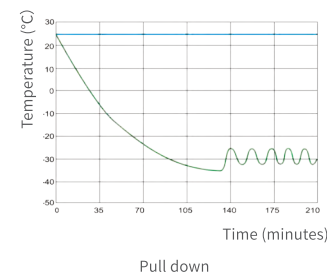


Optimized Cabinet Design

With a pass-through width of 860mm (33.8") and a maximum door opening angle of 180°, the DW-XL668 ensures effortless access and smooth handling of samples — ideal for high-throughput lab environments.

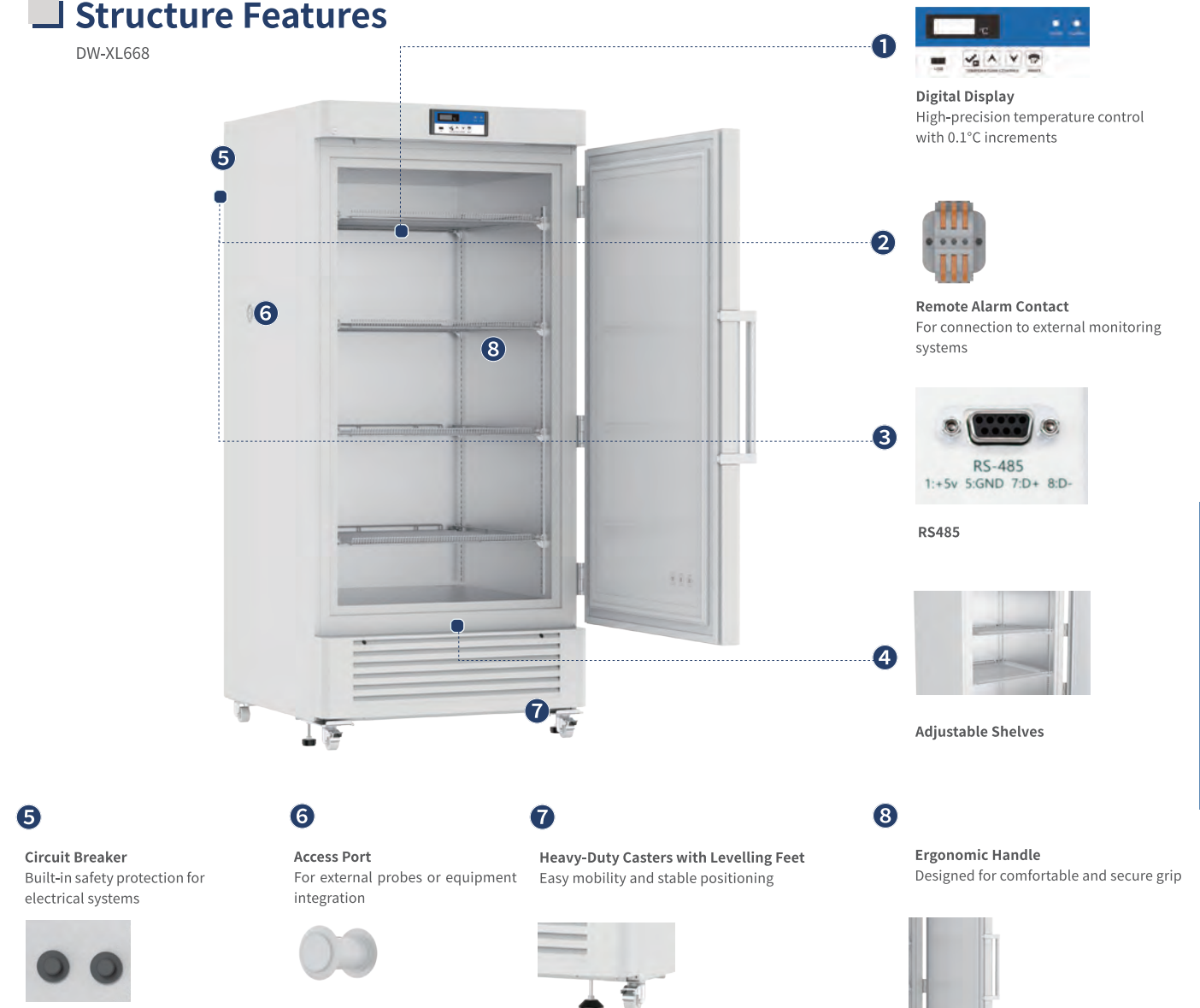
Temperature Mapping

DW-XL668



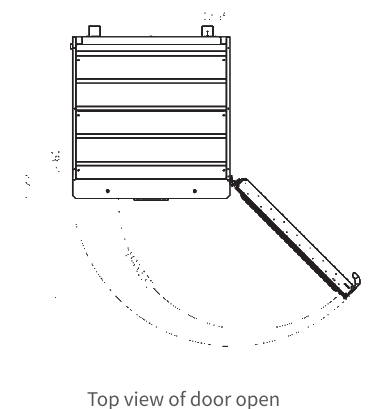
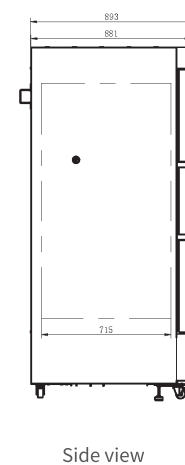
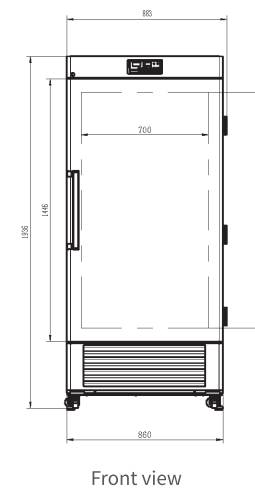
Structure Features

DW-XL668



Product Dimensions

DW-XL668





DW-FL Series – Large Capacity Biomedical Freezers

Models:
DW-FL528 / FL778 / FL1008

Key Features



304 Stainless Steel Interior

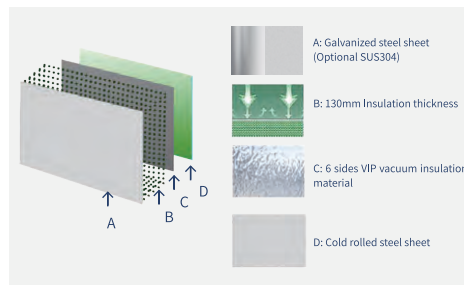
Hygiene and ease of cleaning are critical in research, laboratory, and medical environments. That's why the interior chamber and shelving of the DW-FL series are constructed with 304 rust-proof stainless steel, offering superior durability, corrosion resistance, and effortless cleaning.

- Each shelf supports $\geq 38\text{kg}$ of load
- Adjustable shelf height in 12.5 mm increments for flexible, space-saving storage
- Optional additional shelves available for expanded capacity

Superior Insulation Design

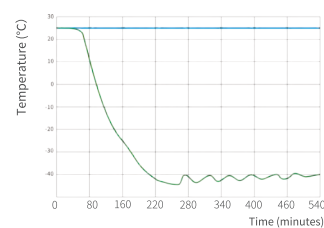
An optimized combination of CFC-free polyurethane (PU) foam provides excellent thermal insulation. This ensures stable internal temperatures, reduced energy consumption, and slower temperature rise in the event of power failure — ensuring the protection of valuable samples at all times.

4 inner doors, when taking items, open one door while keeping the others closed. This reduces heat exchange and lowers temperature fluctuations when opening the doors.

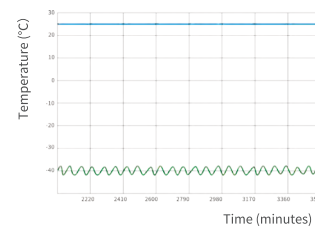


Temperature Mapping

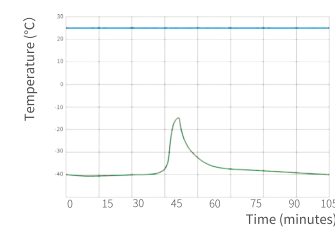
DW-FL528



Pull down



Stable running



Door open recovery

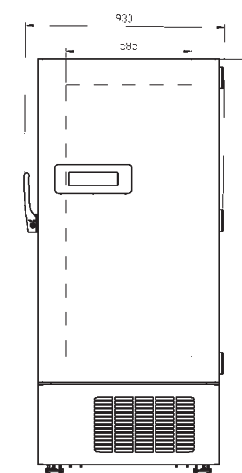
Structure

DW-FL528

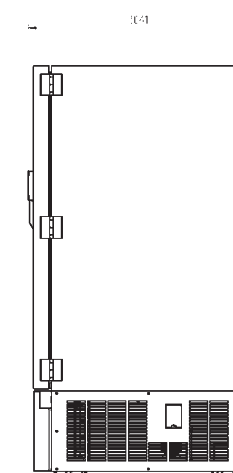


Product Dimensions

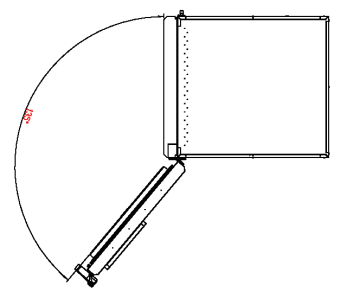
DW-FL528



Front view



Side view



Top view of door open

Specifications



-25°C/-30°C/-40°C Freezer																											
Model	DW-YL90		DW-FL90		DW-YL270		DW-FL270		DW-YL450		DW-FL450		DW-FL528				DW-FL778		DW-FL1008		DW-XL90		DW-XL668				
Capacity(L)	90		90		270		270		450		450		528				778		1008		90		668				
Temperature Range (°C)	-10~-25°C		-20~-40°C		-10~-25°C		-20~-40°C		-10~-25°C		-20~-40°C		-20~-40°C				-20~-40°C		-20~-40°C		-15~-30°C		-15~-30°C				
Ambient Temperature(°C)	16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C		16~32°C				16~32°C		16~32°C		16~32°C		16~32°C				
Climate Class	N		N		N		N		N		N		N				N		N		N		N				
Internal Dimensions (WxDxHmm)	500*485*532		500*485*532		500*460*1235		500*460*1235		650*570*627*2		650*570*627*2		585*696*1266				865*696*1286		1022*696*1378		440*465*480		700*715*1296				
External Dimensions (WxDxHmm)	660*645*815		660*645*815		650*652*1992		746*700*1792		856*789*1960		856*789*1960		930*1041*1947				1205*1025*1955		1360*1006*1980		602*624*810		883*890*1936				
Net/Gross Weight(kg)	51/60		54/67		96/103		98/106		136/165		144/172		234/305				286/378		320/443		52/59		150/193				
Refrigeration System																											
Cooling Method	Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling				Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling				
Defrost Method	Manual		Manual		Manual		Manual		Manual		Manual		Manual				Manual		Manual		Manual		Manual				
Refrigerant	R600a		R290		R600a		R290		R600a		R290		R290				R290		R290		R290		R290				
Compressor	1pc		1pc		1pc		1pc		2pc		2pc		1pc				2pc		2pc		1pc		1pc				
Insulation Material	PU		PU		PU		PU		PU		PU		PU				PU		PU		PU		PU				
Insulation Thickness(mm)	L/R:80 B:76		L/R:80 B:76		L/R:100 B:100		L/R:100 B:100		L/R:80 B:80		L/R:80 B:80		L/R:130 B:130				L/R:130 B:130		L/R:130 B:120		L/R:80 B:80		L/R:80 B:80				
Control System																											
Controller	Microprocessor											Microprocessor															
Display	Digital Display											Digital Display															
Display Increment	0.1°C											0.1°C															
Access Method	Password											Password															
Alarms	High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error, communication error, door ajar, data logger not connected											High/Low temperature, high ambient temperature, Power failure, low battery, Sensor error, communication error, door ajar, hot condensor, data logger not connected															
Alarm Mode	Audible, Visual and Remote alarm											Audible, Visual and Remote alarm															
Backup Battery	Yes											Yes															
Sensor	NTC											PT1000/NTC															
Construction																											
External Material	PCM		PCM		PCM		PCM		PCM		PCM		PCM				PCM		PCM		PCM		PCM				
Internal Material	Sprayed Aluminum Plate		Sprayed Aluminum Plate		Sprayed Aluminum Plate		Sprayed Aluminum Plate		Sprayed Aluminum Plate		Sprayed Aluminum Plate		Stainless Steel (SUS304)				Stainless Steel (SUS304)		Stainless Steel (SUS304)		Sprayed Aluminum Plate		Sprayed Aluminum Plate				
Drawers/Shelves	3		3		7		7		12		12		Shelves/3				Shelves/3		Shelves/3		Shelves/3(2+1)		Shelves/4				
Shelf Material	ABS Plastic		ABS Plastic		ABS Plastic		ABS Plastic		ABS Plastic		ABS Plastic		Stainless Steel				Stainless Steel		Stainless Steel		Coated steel wire		Coated steel wire				
Shelf Capacity	20		20		20		20		30		30		38				56		69		20		46				
Access Port	1pc. 25mm		1pc. 25mm		1pc. 25mm		1pc. 25mm		2pc. 25mm		2pc. 25mm		2pc. 25mm				3pc. 25mm		3pc. 25mm		1pc. 25mm		1pc. 25mm				
Lock with Key	Yes		Yes		Yes		Yes		Yes		No	Yes	Yes				Yes		Yes		Yes		Yes				
Castor/Feet	2/2		2/2		2/2		2/2		4/2 Brakes		4/2 Brakes		4/2				4/2		4/2		2/2		4/2				
Data Logging & External Connection																											
USB Interface	Yes											Yes															
Remote Alarm Contact	Yes											Yes															
RS485	Yes											Yes															
Electrical Data																											
Power Supply(V,Hz)	220~230,50		220~240,60		220~240,50	220~240,60	110,60	220~230,50	220~240,60	110,60	220~240,50	220~240,60	110,60	220~240,50	220~240,60	110,60	220~230,50			220~230,50		110,60		220~240,50/60		110,60	
Power(W)	80		69		150	360	280	125	125	135	255	210	179	206	180	210	346	305	375	350			375		350		
Rated Current(A)	0.98		0.59		1.33	1.76	4.19	1.53	1.05	2.51	2.22	4.22	3.7	0.98	1.4	2.8	4.5	3.71	5.26	4.45			3.71		7.26		
Energy Consumption(kWh/24h)	0.73		0.5		1.69	1.52	1.43	1.025	1.3	0.86	2.86	3.01	2.82	2.24	2.5	2.32	4.85	4.16	3.62	4.16			6.12		3.62		
Noise dB(A)	39.2		39		43.4	47.8	49	43.9	38.5	46	47.9	49.3	48.2	42.5	47.3	46	46.4	46.2	49.5	54			46.2		56		
Options	/		Printer	Printer	Printer	/	Printer	/	Printer	Printer	Printer	/	Printer	/	Printer	Printer	/	Printer	Printer	/			/		Printer		
Certification	CE		CE	CE	CE	UL	CE	CE	CE	CE	UL	CE	UL	CE	CE	CE	UL	CE, MDR			CE, MDR		UL		CE, MDR		

Centrifuge

Multipurpose Refrigerated Centrifuge

High-speed Refrigerated Centrifuge

Micro-refrigerated High-speed Centrifuge

Large Capacity High-speed Refrigerated Centrifuge

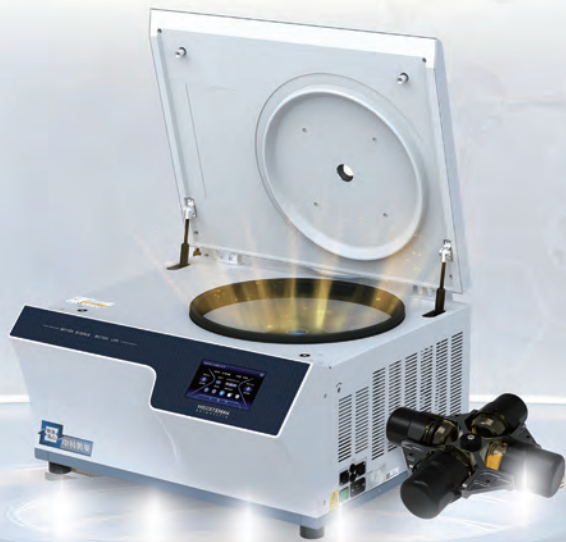
Low-speed Refrigerated Centrifuge

Benchtop Low-speed Centrifuge



Multipurpose Refrigerated Centrifuge

CT-Q220R



Scope of Application

This equipment finds applications in the separation of a wide range of materials—from microorganisms and cells to precipitates—and is utilized in diverse sectors such as academic research, biomedical science, food and agriculture.

Product Advantages

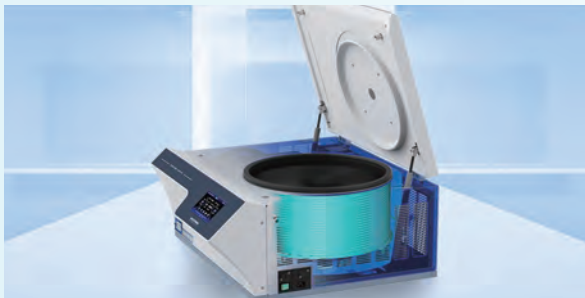


High and Low Speed

Engineered for versatility and precision, this centrifuge is a true lab powerhouse. It seamLessly handles both high and low-speed protocols, reaching up to 22,000 rpm. Experience set-and-forget reliability with its rapid 4-minute chill to 4°C and unwavering $\pm 1^{\circ}\text{C}$ temperature control, all engineered for multi-purpose use.

Large Capacity

Configure the system with your choice of Fixed-angle or Swing-bucket rotors to handle virtually any vessel—from microtubes (0.2 mL) to large bottles (750 mL), including blood collection tubes and MTP & DWP. The Swing-bucket rotor leads with a massive 4×750 mL capacity, while the Angle rotor handles up to 6×250 mL.



Multifunction

Advanced Operational Modes: Execute short spin, continuous centrifugation, and one-touch pre-cooling for maximum experimental flexibility. Customizable Workflows: Store and manage up to 1,000 custom programs for one-click access to frequently used methods. Comprehensive Process Monitoring: Monitor key parameters like speed, RCF, temperature, and runtime in real-time directly from the interface.

Interactive Upgrading



Dual Management Permissions
Administrators can grant access to visitors/users.



Menu-style Program Library
Modify parameters, save favorites, quick and convenient.



One-touch Query
Quickly check historical operation records and alarm logs, ensuring full traceability.



Automatic Monitoring
Administrators can grant access to visitors/users.



Electronic Level
Assists with balancing.



Electronic Manual
One-touch access for assisted operation.



Personalized Settings
Freely adjust brightness, screen timeout, timing mode, lid opening after shutdown, key beep, and other user-friendly settings.

Safety Benchmark



Centrifuge Chamber Material

316 stainless steel, resistant to corrosive substances.

Record Export

Equipped with a USB interface for exporting operation and alarm logs.

Safety Lid Lock

Dual self-locking mechanism—open with one touch, close with a light press, ensuring safety and stability.

Alarm/Protection

Imbalance protection, lid protection, overvoltage alarm, overcurrent alarm, communication fault alarm, and more.



Stable Operation

Vibration reduce to 0.03mm, ensuring long-term stable performance.

Privilege Management

Independently grants access to rotor information, program favorites, step centrifugation, short spin centrifugation, and menu programs.

Rapid Cooling

Equipped with imported Secop compressors and seamLess coil cooling technology for fast refrigeration.

Rotor Protection

Features rotor recognition and automatic parameter switching for enhanced safety.

Function Permissions



Rotor Information

Speed Setting

Continuous Centrifugation



Short Spin Centrifugation Completed

Running

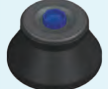
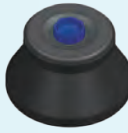
Experimental Curve Record

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Time Setting Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-Q220R	22000rpm	34144xg	4*750mL	1s~99h59min59s	≤65dB	±10rpm	220V~230V 50~60Hz	1500W	121kg	746*746*405mm

Rotor Parameters

Rotor Type	Max. Speed	Max. RCF	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 12*1.5mL Angle Rotor	22000rpm	34144xg		0.2mL	12	12*1	6.2*25
				0.5mL	12	12*1	8*32
 24*1.5mL Angle Rotor	18500rpm	32523xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 48*1.5mL Angle Rotor	14000rpm	22131xg		0.2mL	48	48*1	6.2*25
				0.5mL	48	48*1	8*32

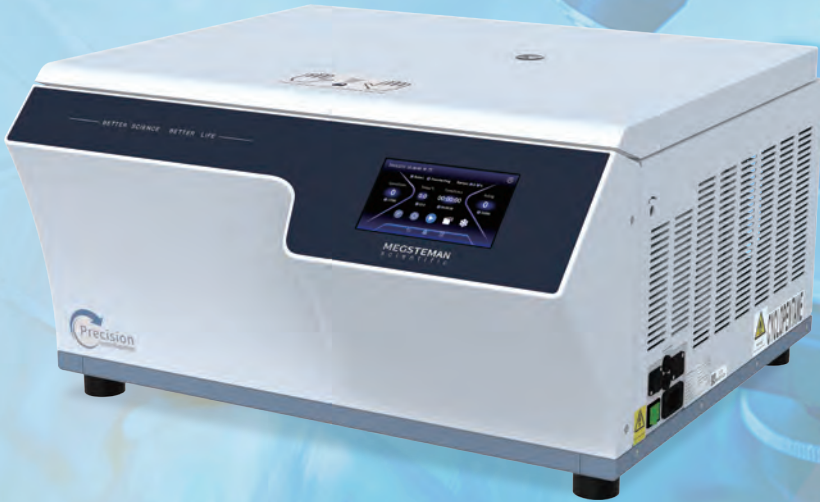
Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 12*15mL Angle Rotor	13000rpm	20632xg	-	15mL	12	12*1	17*121
				1.5mL	6	6*1	11*41
 6*50mL Angle Rotor	13000rpm	18440xg		5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
				15mL (Round Bottom)	6	6*1	17*106
 6*50mL Angle Rotor	12000rpm	20156xg		1.5mL	6	6*1	11*41
				5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
 8*50mL Angle Rotor	13000rpm	20594xg		1.5mL	8	8*1	11*41
				5mL	8	8*1	13*53
				10mL (Round Bottom)	8	8*1	15*105
				15mL (Conical)	8	8*1	17*121
				15mL (Round Bottom)	8	8*1	17*106

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 4*100mL Angle Rotor	10000rpm	11403xg		5mL	12	4*3	13*53
				15/10mL (Round Bottom)	4	4*1	15*105
				15mL (Conical)	4	4*1	17*121
				50mL (Round Bottom)	4	4*1	29*115
				50mL (Conical)	4	4*1	29*115
 6*100mL Angle Rotor	10000rpm	12477xg		5mL	18	6*3	13*53
				15/10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115
 6*250mL Angle Rotor	7000rpm	7554xg		5mL	36	6*6	13*53
				10mL (Round Bottom)	30	6*5	15*105
				15mL (Conical)	30	6*5	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115
 4*250mL Swing-bucket Rotor	5000rpm	4667xg		5mL	24	4*6	13*53
				10mL (Round Bottom)	20	4*5	15*105
				15mL (Conical)	20	4*5	17*121
				50mL (Round Bottom)	4	4*1	29*115
				50mL (Conical)	4	4*1	29*115
				100mL	4	4*1	38*118

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 4*500mL Swing-bucket Rotor	4500rpm	4414xg		1.5mL	104	4*2*13	11*41
				3/5mL Blood Collection Tubes	76	4*19	12*80/105
				10mL (Round Bottom)	36	4*9	16*106
				15mL (Conical)	36	4*9	17*121
				15mL (Round Bottom)	36	4*9	17*106
				50mL (Round Bottom)	12	4*3	29*115
				50mL (Conical)	12	4*3	29*115
				100mL	4	4*1	38*118
				250mL	4	4*1	61.5*130
 4*750mL Swing-bucket Rotor	4000rpm	3425xg		MTP	8 Boards	4*2*96	86*128
				Biosafety Lid	/	/	/
				1.5mL	192	4*2*24	11*41
				3/5mL Blood Collection Tubes	92	4*23	12*80/105
				10mL (Round Bottom)	56	4*14	16*106
				15mL (Conical)	56	4*14	17*121
				15mL (Round Bottom)	56	4*14	17*106
				50mL (Round Bottom)	20	4*5	29*115
				50mL (Conical)	20	4*5	29*115
				100mL	16	4*4	38*118
				250mL	4	4*1	61.5*130
				500mL	4	4*1	80*140
				MTP	8 Boards	4*2*96	86*128
				Biosafety Lid	/	/	/

Multipurpose Refrigerated Centrifuge

CT-Q175R



Features



High and Low Speed

Compatible with the requirements of different centrifugal high and low speed, the maximum speed can reach 17500rpm, and the speed accuracy can be maintained ± 10 rpm. At the same time, it ensures that the temperature can be reduced from normal temperature to 4°C in the fastest 4 minutes under cooling state, and the temperature control accuracy is maintained at $\pm 1^{\circ}\text{C}$, with precise temperature and speed control, truly achieving multiple uses of one machine.

Large Capacity

Fixed-angle rotor and Swing-bucket rotor can be selected, and the capacity is compatible with 0.2mL, 0.5mL, 1.5mL, 5mL, 10mL, 15mL, 50mL, 100mL, 250mL, 500mL, 750mL, various blood collection tubes and MTP.

Maximum capacity of angle rotor 6*250mL;
Maximum capacity of swing-bucket rotor 4*750mL.



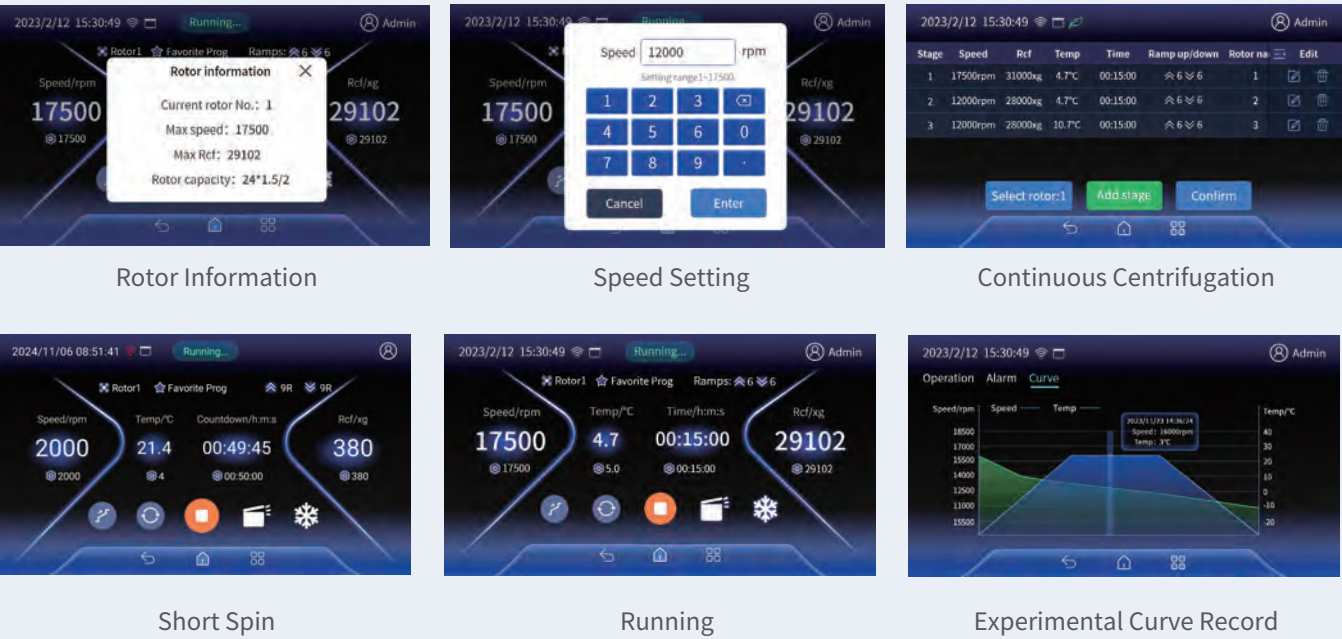
Multifunction

It has the functions of short spin centrifugation, continuous centrifugation and one-button precooling to meet the needs of different centrifugal experiments.

Program collection customization, you can freely collect 1000 group parameter programs as needed and use them with one click.

Real-time display of speed,centrifugal force,temperature,rotor type,time,acceleration and braking ramp and operation mode,ect.

Function Permissions



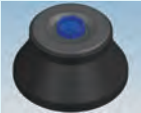
Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Time Setting Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-Q175R	17500rpm	29102xg	4*750mL	1s~99h59min59s	≤58dB	±10rpm	220~230V, 50/60Hz	1200W	121kg	746*746*405mm

Rotor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 24*1.5mL Angle Rotor	17500rpm	29102xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 48*1.5mL Angle Rotor	14000rpm	22131xg		0.2mL	48	48*1	6.2*25
				0.5mL	48	48*1	8*32
 12*15mL Angle Rotor	13000rpm	20632xg	/	15mL	12	12*1	17*121

Rotor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*50mL Angle Rotor	13000rpm	18440xg		50mL (Round Bottom)	6	6*1	29*115
				1.5mL	6	6*1	11*41
				5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
 6*50mL Angle Rotor	12000rpm	20156xg		50mL (Round Bottom)	6	6*1	29*115
				1.5mL	6	6*1	11*41
				5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
 8*50mL Angle Rotor	13000rpm	20594xg		50mL (Round Bottom)	8	8*1	29*115
				1.5mL	8	8*1	11*41
				5mL	8	8*1	13*53
				10mL (Round Bottom)	8	8*1	15*105
				15mL (Conical)	8	8*1	17*121
				15mL (Round Bottom)	8	8*1	17*106
 4*100mL Angle Rotor	10000rpm	11403xg		5mL	12	4*3	13*53
				15/10mL (Round Bottom)	4	4*1	15*105
				15mL (Conical)	4	4*1	17*121
				50mL (Round Bottom)	4	4*1	29*115
				50mL (Conical)	4	4*1	29*115
 6*100mL Angle Rotor	10000rpm	12477xg		5mL	18	6*3	13*53
				15/10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*250mL Angle Rotor	7000rpm	7554xg		5mL	36	6*6	13*53
				10mL (Round Bottom)	30	6*5	15*105
				15mL (Conical)	30	6*5	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115
				100mL	6	6*1	38*118
 4*500mL Swing-bucket Rotor	4000rpm	3488xg		1.5mL	104	4*2*13	11*41
				3/5mL Blood Collection Tubes	76	4*19	12*80/105
				10mL (Round Bottom)	36	4*9	16*106
				15mL (Conical)	36	4*9	17*121
				15mL (Round Bottom)	36	4*9	17*106
				50mL (Round Bottom)	12	4*3	29*115
				50mL (Conical)	12	4*3	29*115
				100mL	4	4*1	38*118
				250mL	4	4*1	61.5*130
				MTP	8 Boards	4*2*96	86*128
				Biosafety Lid	/	/	/
 4*750mL Swing-bucket Rotor	4000rpm	3425xg		15mL	192	4*2*24	11*41
				3/5mL Blood Collection Tubes	92	4*23	12*80/105
				10mL (Round Bottom)	56	4*14	16*106
				15mL (Conical)	56	4*14	17*121
				15mL (Round Bottom)	56	4*14	17*106
				50mL (Round Bottom)	20	4*5	29*115
				50mL (Conical)	20	4*5	29*115
				100mL	16	4*4	38*118
				250mL	4	4*1	61.5*130
				500mL	4	4*1	80*140
				MTP	8 Boards	4*2*96	86*128
				Biosafety Lid	/	/	/

Multipurpose Refrigerated Centrifuge

CT-Q170R

Smart Lab Series

High-efficently centrifuge | Rapid cooling | Safety and precise



Scope of Application

Suitable for cell separation, binding property studies, whole blood separation, processing large numbers of small-volume samples in microtiter plates, conducting cytotoxicity studies, receptor binding assays, genetic engineering experiments, high-throughput processing, and serial dilution of small-volume liquids.

Areas of application: Medical Research, Cell Biology, Drug Discovery, Genomics and Molecular Biology.

Product Introduction

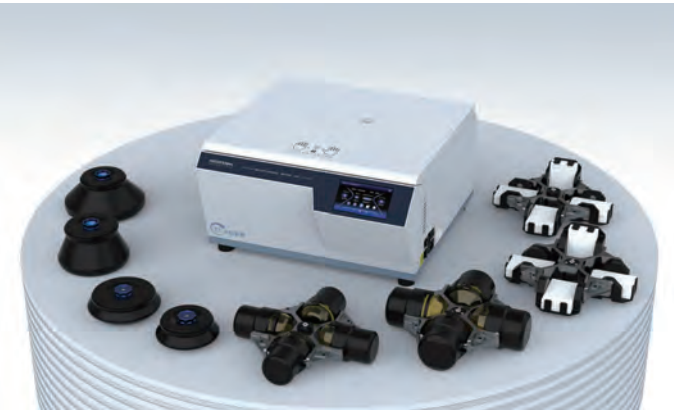


Precise Temperature Control

The CT-Q170R accommodates varying centrifugal speed requirements, reaching a maximum of 17000 rpm while maintaining speed accuracy within ± 10 rpm. It ensures rapid cooling from ambient temperature to 4 °C in as little as 4 minutes under refrigeration, with temperature control precision maintained at ± 1 °C.

Excellent Versatility

Optional angle rotors and swing-bucket rotors accommodate volumes including 0.2mL, 0.5mL, 1.5mL, 5mL, 10mL, 15mL, 50mL, 100mL, 250mL, 500mL, various blood collection tubes, and MTPs.
Max. capacity for angle rotor: 4×100mL
Max. capacity for swing-bucket rotor: 4×500mL



Multipurpose

Features short spin, continuous centrifugation, and one-touch pre-cooling functions to meet diverse centrifuge experiment requirements. Customizable program library allows saving ≥ 1000 parameter sets for recall with a single button press. Real-time display of speed, centrifugal force, temperature, time, acceleration or braking settings and so forth.

Interaction Upgrade



Dual Management Authority
Administrators can grant access to visitors/users.



Menu Program Library
Memory collection



One-click Search
One-click access to historical operation logs and alarm records
Ensuring full traceability throughout the entire usage process



Automatic Monitoring
Electronic gyroscope automatically monitors balance and provides early warning alerts



Electronic Level
Auxiliary leveling



Electronic Manual
Auxiliary control centrifuge



Humanized Design
Customizable settings include brightness adjustment, screen timeout, timer mode, lid-opening shutdown, and keypad beep

Safety Benchmark



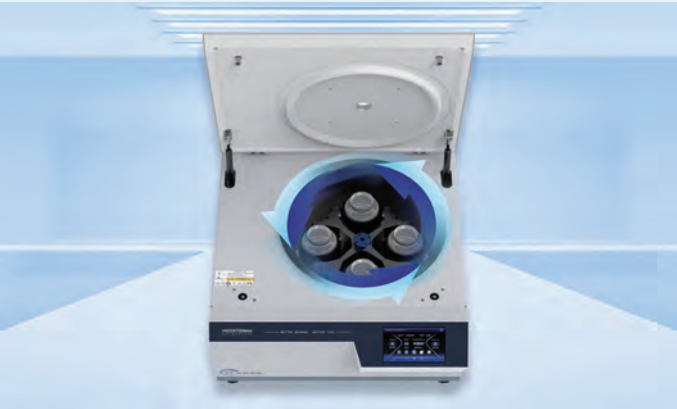
- Centrifuge Chamber Material**

316 stainless steel, resistant to corrosion by corrosive substances.
- Record Export**

Equipped with a USB port for exporting operational logs and alarm records.
- Safety Lid Lock**

Dual self-latching lid lock, one-touch opening, light-touch closing.
- Multiple Protections**

Unbalanced protection, lid protection, overvoltage alarm, overcurrent alarm, communication failure alarm, etc.



- Stable Operation**

The entire machine achieves an amplitude as low as 0.011mm, ensuring long-term stable operation.
- Permission Management**

Independent access to rotor information, program collection, continuous centrifugation, short spin, menu programs, and other functional permissions.
- Rapid Cooling**

International advanced compressors paired with seamless coil refrigeration technology enable rapid cooling.
- Rotor Protection**

Features rotor identification and automatic switching of rotor parameters.

Function Permissions



Rotor Information



Speed Setting



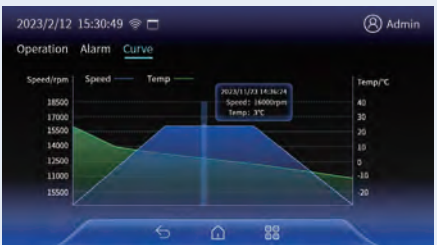
Continuous Centrifugation



Short Spin



Running



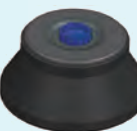
Experimental Curve Record

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Time Setting Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-Q170R	17000rpm	27463xg	4*500mL	1s~99h59min59s	≤61dB	±10rpm	220V~230V 50~60Hz	950W	116kg	674*710*371mm

Rotor Parameters

Rotor Type	Max. Speed	Max. RCF	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 24*1.5mL Angle Rotor	17000rpm	27463xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 48*1.5mL Angle Rotor	14000rpm	22131xg		0.2mL	48	48*1	6.2*25
				0.5mL	48	48*1	8*32

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*50mL Angle Rotor	13000rpm	18440xg		1.5mL	6	6*1	11*41
				5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
 12*15mL Angle Rotor	13000rpm	20632xg		15mL (Conical)	12	12*1	17*121
 8*50mL Angle Rotor	12000rpm	17547xg		1.5mL	8	8*1	11*41
				5mL	8	8*1	13*53
				10mL (Round Bottom)	8	8*1	15*105
				15mL (Conical)	8	8*1	17*121
				15mL (Round Bottom)	8	8*1	17*106
 4*100mL Angle Rotor	10000rpm	11403xg		5mL	12	4*3	13*53
				15/10mL	4	4*1	15*105
				15mL (Conical)	4	4*1	17*121
				50mL (Round Bottom)	4	4*1	29*115
				50mL (Conical)	4	4*1	29*115

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 4*250mL Swing-bucket Rotor	4500rpm	3780xg		5mL	36	6*6	13*53
				10mL (Round Bottom)	30	6*5	15*105
				15mL (Conical)	30	6*5	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115
				100mL	6	6*1	38*118
 4*500mL Swing-bucket Rotor	4000rpm	3488xg		1.5mL	104	4*2*13	11*41
				3/5mL Blood Collection Tubes	76	4*19	12*80/105
				10mL (Round Bottom)	36	4*9	16/106
				15mL (Conical)	36	4*9	17/121
				15mL (Round Bottom)	36	4*9	17/106
				50mL (Round Bottom)	12	4*3	29/115
				50mL (Conical)	12	4*3	29/115
				100mL	4	4*1	38/118
				250mL	4	4*1	61.5/130
				MTP	8 Boards	4*2*96	86/128
				Biosafety Lid	/	/	/
 4*500mL MTP Rotor	4000rpm	3488xg	/	MTP	8 Boards	4*2*96	86/128

High-speed Refrigerated Centrifuge

CT-Q185R



Features



Rapid Cooling

Secop compressor, high-efficiency refrigeration system, rapidly cooling in 4 minutes. Precise PID temperature control, temperature accuracy $\pm 1^{\circ}\text{C}$. One-button pre-cooling, temperature adjustable from -20°C to 40°C .



Auto Rotor Identification

Adaptation to various rotors like common and biosafety angle rotor, realizing multi-usage. The maximum capacity of the rotor: $6 \times 100\text{mL}$, separating more samples with high efficiency. Auto Rotor identification, matching speed, enhancing operation safety.



Swift Centrifugation

The maximum centrifugal force: $32531 \times g$, the maximum speed: 18500rpm and the speed accuracy: $\pm 1\text{rpm}$.



Safety Lock

Intelligent double lid lock with self-priming technology, ensuring operation safety and sample safety



Secure And Stable

7 alarm functions and protection linkage device, enhancing safety for man and machine Multi-stage damping design, reducing the amplitude to 0.003mm Resuspension-proof design, safe guarding sensitive samples Die-casting aluminum alloy base, making the machine running safely and stably



Automatic Protection

Automatically stopping to alarm, ensuring experiment safety once the rotor unbalanced.

Function Permissions



7 Inch LCD Display



Data Query And Monitoring

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Temperature Control Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-G185R	18500rpm	32531xg	6*50mL	-20~40°C	57dB(A)	$\pm 1\text{rpm}$	220~230V, 50/60Hz	1100W	57kg	380*645*310mm

Rotor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions ($\Phi \times \text{Lmm}$)
 6*50mL (Conical)/ 10mL Angle Rotor	9000rpm	11142xg		1.5mL	6	6*1	11*41
				5mL	6	6*1	13*53
				10mL (Round Bottom)	6	6*1	15*105
				15mL (Conical)	6	6*1	17*121
				15mL (Round Bottom)	6	6*1	17*106
 48*1.5mL Angle Rotor	13000rpm	18331xg		0.2mL	48	48*1	6.2*25
				0.5mL	48	48*1	8*32
 24*1.5mL Angle Rotor	18500rpm	32531xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 12*15mL Angle Rotor	11000rpm	15692xg	/	/	/	/	/
 6*8*0.2mL Angle Rotor	12000rpm	17390xg	/	/	/	/	/
 12*10mL Angle Rotor	12000rpm	15052xg	/	/	/	/	/
 12*5mL Angle Rotor	15000rpm	15998xg	/	/	/	/	/
 6*100mL Angle Rotor	4500rpm	2739xg	/	/	/	/	/
 6*50/10mL Angle Rotor	5000rpm	3410xg	/	/	/	/	/

High-speed Refrigerated Centrifuge

CT-G165R

Benchtop Micro-refrigerated

2/5mL Microcentrifugation | 4min Rapid Cooling



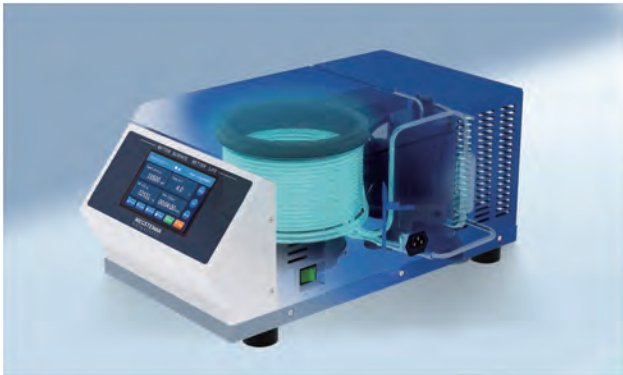
Scope of Application

Applicable across a range of fields including bioengineering, genetic engineering, agriculture and forestry, hospital medicine, biochemistry, disease control, and various scientific research laboratories. It is primarily utilized for the rapid separation and extraction of trace samples, playing a crucial role in the separation and purification experiments involving cells, sub-cellular components, biomacromolecules, DNA/RNA, plasmids, viruses, and more.

Product Advantages



Product Introduction



Rapid Cooling

- Short pre-cooling time of only 4 minutes from room temperature to 4°C
- Using PID algorithm to accurately control temperature $\pm 1^{\circ}\text{C}$

Accurate Centrifugation

- Maximum centrifugal force 21386xg
- Maximum speed 16500rpm
- Speed accuracy $\pm 1\text{rpm}$
- Low amplitude 0.003mm



Safety Design



Safety Lid Lock

Electric control, manual or variable damping gas spring;
Engineered for safety, the motorized gas springs offer smooth and controlled opening and closing of the centrifuge chamber, providing an extra layer of protection to users.



Balance Monitoring

When the rotor is unbalanced, it automatically stops and protects the alarm, ensuring the safety of the experiment.



Super Low Amplitude

The multi-level damping and shock-absorbing design makes the amplitude of the whole machine 0.003mm; Soft brake function can prevent sample resuspension effectively



Alarm Protection

Imbalance protection, lid protection, over-temperature, over-pressure, over-current, communication failure alarm, etc.

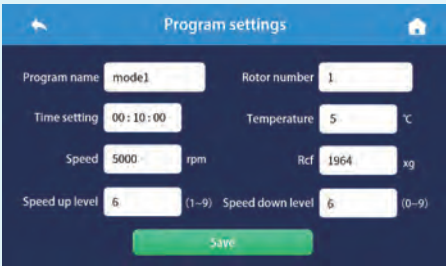
Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Time Setting Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-165R	16500rpm	21386xg	12*5mL	1s~99h59min59s	≤60dB(A)	±1rpm	220~230V/50Hz	550W	46kg	310*595*280mm

Rotor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 24*1.5mL Angle Rotor	15000rpm	21386xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 12*5mL Angle Rotor	16500rpm	19358xg	/	/	/	/	/
 8*8*0.2mL Angle Rotor	12000rpm	11865xg	/	/	/	/	/

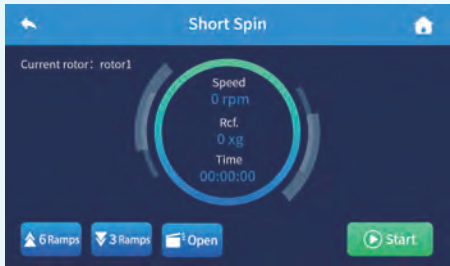
Intelligent Control Operating System



Program Settings



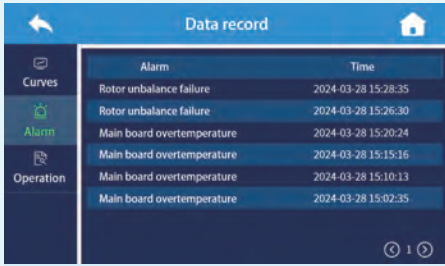
Unbalance Alarm



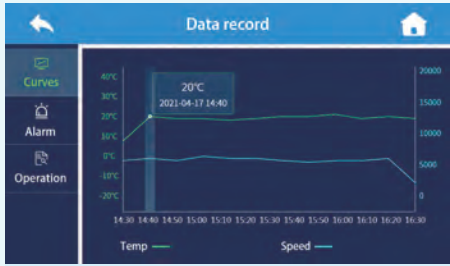
Instantaneous Centrifugation



Pre Cooling



Alarm Content



Temperature Curve

Large Capacity High-speed Refrigerated Centrifuge

CL-G210R

21000rpm / 1000mL Fixed-angle Rotor Centrifugation/ Rapid Cooling



Scope of Application

Mainly used for separation and purification of biological macromolecules such as cells, proteins, nucleic acids and genetic materials such as DNA and RNA; Blood separation (such as separation of plasma and platelets), virus detection, and drug screening.
Applicable to: serological analysis, histology and histochemistry, cell culture, virology research, separation and purification of biological macromolecules, genetic research and other scientific research fields, as well as chemical, pharmaceutical, mineral processing, petroleum, coal, water treatment and other industrial fields.

Product Introduction

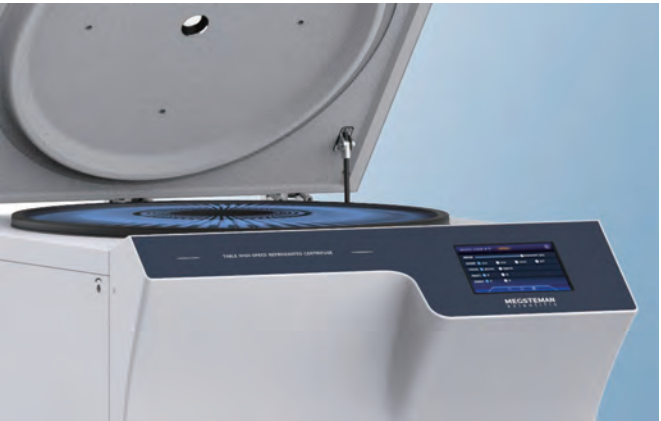


Excellent Performance

Maximum speed 21000rpm;
Maximum centrifugal force 49796xg;
Speed accuracy of ± 10 rpm;
The temperature can be reduced from room temperature to 4°C in 4 minutes at the fastest under refrigeration state;
Temperature control accuracy is maintained at $\pm 1^\circ\text{C}$, ensuring the centrifugal effect throughout the process.

Large Capacity

Compatible with 10ml, 50ml, 250ml, 500ml, 1000ml fixed-angle rotors;
Equipped with adapter, sample volume can be freely selected;
It covers all sample separation experiments under high-speed conditions.



Easy to Use

It has functions such as short spin, Continue centrifugation, and one-button precooling to meet the needs of different experiments.
Program collection is customizable, users can collect 1000+ sets of parameter programs and recall them freely.
The display of speed, centrifugal force, temperature, rotor type, acceleration and braking ramps/ time and operation mode shows in time.

Safety Design

Stainless Steel Chamber

316 stainless steel chamber can avoid corrosion from corrosive substances

Intelligent Operation Control System

Independently open the rotor information, program collection, continuous centrifugation, short spin centrifugation, menu program and other functional permissions

Rapid Xooling

Using Secop compressor and seamless coil refrigeration technology for rapid refrigeration

Rotor Protection

It has functions such as rotor identification and automatic switching of rotor parameters.

Rotor Self-driven

There is no need to use tools to fix the rotor, and the drive can be installed directly, which is convenient, labor-saving and efficient.

Alarm&Protection

Equipped with imbalance protection, lid cover protection, overvoltage, overcurrent alarm, communication failure alarm, etc.

Stable Operation

The amplitude of the whole machine is as low as 0.03mm, protecting the long-term stable operation of the machine.

Data Export

Equipped with USB interface, can export operation records and alarm records

Safety Lid Lock

Adopting double self-priming lid lock, just one-touch for opening, and light pressure for closing, safe, labor-saving and stable.

Intuitive Interface

Program Library

Program library is convenient for user to modify parameters and memorize collections.

Records Query

The historical operation records and alarm records can be queried with one click, to ensure the traceability of the entire usage process.

E-Manual

Equipped with electronic instruction manual to assist operation grandly.

Balance Monitoring

Electronic gyroscope automatically monitors balance and issues warning alerts.

Electronic Level

Electronic level assists in installation and leveling,making installation easier and simpler.

Multi-level Permissions

Administrators can grant access to guests or users.

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. capacity	Temperature Control Range	Noise	Speed Accuracy
CL-G210R	21000rpm	49796xg	6*1000ml	-20℃~40℃	≤65dB	±10rpm
	Temperature Accuracy	Setting Time Range	Power Supply	Weight	Dimensions (W*D*H)	
	±1℃	1s~99h59min59s	220V/50Hz	301.5kg	740*950*940mm	

Rotor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 24*1.5mL Angle Rotor	21000rpm	41661xg		0.2mL	24	24*1	6.2*25
				0.5mL	24	24*1	8*32
 16*10mL Angle Rotor	21000rpm	49796xg	/	/	/	/	/
 8*50mL Angle Rotor	15000rpm	27745xg		50mL (Round Bottom)	8	8*1	29*115
				5mL	8	8*1	13*53
				10mL (Round Bottom)	8	8*1	15*105
				15mL (Conical)	8	8*1	17*121
				15mL (Round Bottom)	8	8*1	17*106

Rotor Parameters

Rotor Type	Max. Speed	Max. RCF	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*250mL Angle Rotor	12000rpm	22361xg		5mL	36	6*6	13*53
				10mL (Round Bottom)	30	6*5	15*105
				15mL (Conical)	30	6*5	17*121
				50mL (Round Bottom)	6	6*1	29*115
				50mL (Conical)	6	6*1	29*115
				100mL	6	6*1	38*118
 6*500mL Angle Rotor	10000rpm	17966xg		1.5mL	78	6*13	11*41
				3/5mL Blood Collection Tubes	72	6*12	13*80/13*100
				10mL (Round Bottom)	42	6*7	15*105
				15mL (Round Bottom)	30	6*5	17*106
				15mL (Conical)	30	6*5	17*121
				50mL (Round Bottom)	12	6*2	29*115
				50mL (Conical)	12	6*2	29*115
				100mL	6	6*1	38*118
				250mL	6	6*1	61.5*130

Rotor Type	Max. Speed	Max. RCF	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 4*1000mL Angle Rotor	8000rpm	12364xg		3/5mL Blood Collection Tubes	92	4*23	13*80/13*100
				10mL (Round Bottom)	48	4*12	15*105
				15mL (Conical)	48	4*12	17*121
				50mL (Round Bottom)	20	4*5	29*115
				50mL (Conical)	20	4*5	29*115
				100mL	12	4*3	38*118
				250mL	4	4*1	61.5*130
				500mL	4	4*1	69.5*170
 6*1000mL Angle Rotor	7000rpm	11191xg		3/5mL Blood Collection Tubes	138	6*23	13*80/13*100
				10mL (Round Bottom)	72	6*12	15*105
				15mL (Conical)	72	6*12	17*121
				50mL (Round Bottom)	30	6*5	29*115
				50mL (Conical)	30	6*5	29*115
				100mL	18	6*3	38*118
				250mL	6	6*1	61.5*130
				500mL	6	6*1	69.5*170

Low-speed Refrigerated Centrifuge

CL-D60R

Intelligent Touch Screen/ Multiple Program Customization/
Gyro Intelligent Unbalance Protection



Scope of Application

Used for blood separation, protein precipitation, cell separation and collection, etc.
Applicable to: blood stations, pharmaceutical factories, biochemistry, biological products and other production and research units.



Product Introduction



Stable Operation

The driving system directly drives the rotor, with balanced operation, low vibration, and three-level shock absorption to achieve the best centrifugal effect.

Various Range of Rotors for Application Flexibility

Both fixed-angle rotors and swing-out rotors are available, along with a diverse selection of hanging baskets and adapters to accommodate various needs.
Compatible with 2~10mL blood collection tubes, 10mL, 15mL, 50mL centrifuge tubes, and 200mL, 400mL, 500mL blood bags.
Max. capacity of the fixed angle rotor: 6*500mL.
Max. capacity of the swing-out rotor: 6*1000mL.



Multi-functions

It has functions such as short spin. Continue centrifugation, and one-button precooling to meet the needs of different experiments. Program collection is customizable, users can collect 1000+ sets of parameter programs and recall them freely. The display of speed, centrifugal force, temperature, rotor type , acceleration and braking ramps/ time and operation mode shows in time.

Safety Design



Rigid material
The machine used with high-quality steel structure of the fuselage, built-in stainless steel explosion-proof protective inner sleeve and stainless steel chamber.



Safety door lock
Automatic electric door locks with emergency unlocking function, safety and reliable.



Data export
Equipped with USB interface can export operation records and alarm records.



Alarm & Protection
Equipped with over-temperature, over-speed, gyroscope imbalance protection, lid protection, communication failure alarm, etc.



Program access
Independently open the rotor information, program collection. Continue centrifugation, short spin, menu program and other functional permissions.



Precise temperature control
It adopts fluorine-free compressor unit, with double-cycle refrigeration and strong heat exchange capacity, can achieve precise temperature control without pollution.



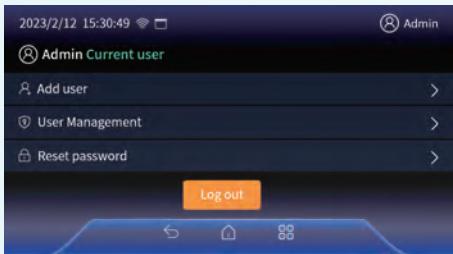
Intuitive Interface



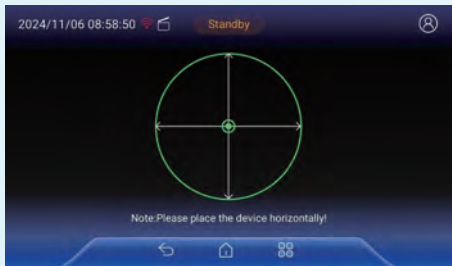
Program Library



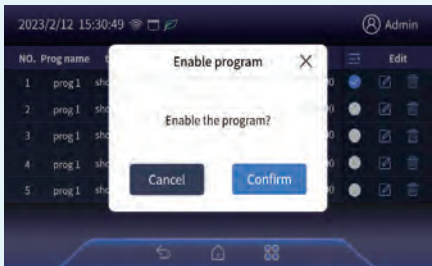
Records Query



Multi-level Permissions



Electronic Level



Enable Program



Settings

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Temperature Control Range	Noise	Speed Accuracy
CL-D60R	6000rpm	6600xg	6*1000ml	-20°C~40°C	≤63dB	±10rpm
	Temperature Accuracy	Setting Time Range	Power Supply	Weight	Dimensions (W*D*H)	
	±1°C	1s~99h59min59s	220V/50Hz	323kg	740*920*900mm	

Roteor Parameters

Rotor Type	Max. Speed	Rcf	Adapter	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*1000ml Swing-bucket Rotor	4200rpm	5100xg		10mL Blood Collection Tube	114	6*19	16*105
				50mL (Pointed Bottom)	30	6*5	29*115
				15mL (Pointed Bottom)	84	6*14	17*121
				5-7mL Vacuum Tubes	144	6*24	12*105
 6*1000ml Swing-bucket Rotor	4200rpm	5100xg		200mL Blood Bag	12	6*2	200mL Blood Bag
				400/500mL Blood Bag	6	6*1	400/500mL Blood Bag
 6*300mL Angle Rotor	6000rpm	5660xg	/	/	/	/	/
 6*500mL Angle Rotor	6000rpm	6600xg	/	/	/	/	/

Benchtop Low-speed Centrifuge

CT-D60



Scope of Application

Mainly used in scientific research platforms, clinics, hospital laboratories, blood transfusion departments, pathology departments, CDC microbiology laboratories, etc.; Commonly used to separate cells, blood, secretions, excretions, etc.

Product Features



Excellent Performance

The maximum speed: 6000rpm
The speed accuracy: ± 1 rpm
The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process.



Safety Protection

Record query: one-click query of historical operating records and fault records.
Damping gas springs: offer smooth and controlled opening and closing of the centrifuge chamber, providing an extra layer of protection to users.
Alarm: rotor imbalance, door cover protection, overvoltage and overcurrent, communication failure alarm.
Stable operation: the amplitude of the whole machine is as low as 0.004mm, protecting the long-term stable operation of the machine.
Soft brake: prevent sample resuspension.

Various range of Rotors for Application Flexibility

Compatible with both fixed-angle rotors and swing-out rotors, and equipped with a variety of hanging baskets and adapters, with capacities including 10mL, 15mL, 50mL, 100mL and various types of blood collection tube rotors.



Easy to Operate

With instant centrifugation function and 9 acceleration and 10 deceleration stages to choose from, it can meet the needs of different centrifugation experiments.
The program settings are customizable, and 15 groups of parameter programs can be freely set and named as needed.
The display of speed, centrifugal force, temperature, rotor type, acceleration and deceleration temps, time and operation mode shows in time.



Convenient Interaction



Intelligent operation control system

Administrators can grant guests/users access.



Program setting

Quick and easy for modifying programs and collecting memory.



Rotor identification

Equipped with automatic rotor identification and rotor parameter automatic switching functions, ensuring safe and convenient for daily operation.



Intuitive 7-Inch Touch Screen

It provides operators with user-friendly navigation through settings and features, making operation straightforward and minimizing time.

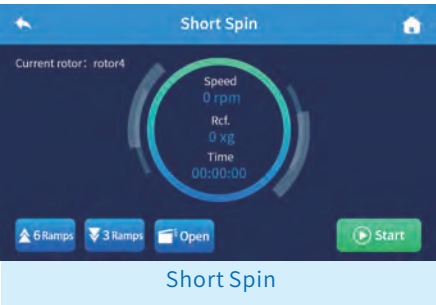
Intuitive Interface



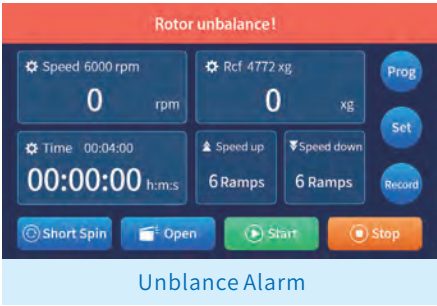
Speed Setting



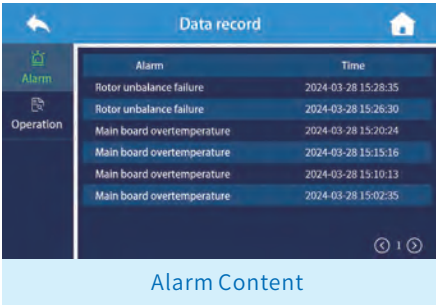
Operation Record



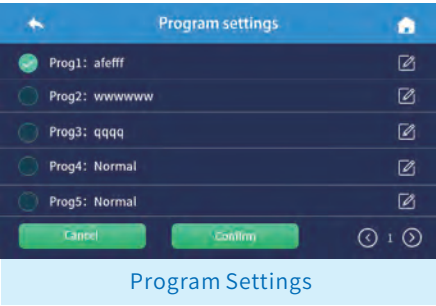
Short Spin



Unblance Alarm



Alarm Content



Program Settings

Technical Parameters

Product Model	Max. Speed	Max. RCF	Max. Capacity	Time Setting Range	Noise	Speed Accuracy	Supply Voltage	Power	Weight	Dimensions (W*D*H)
CT-D60	6000rpm	5103xg	6*100mL	1s~99h59min59s	≤63dB(A)	±1rpm	220~230V/50Hz	240W	38kg	380*535*318mm

Rotor Parameters

Rotor Type	Max. Speed	Max. RCF	Adapter		Explanation	Capacity	Maximum Number of Tubes	Configuration (Rotor holes * adapter holes)	Maximum Tube Dimensions (Φ*Lmm)
 6*100mL Angle Rotor	4500rpm	3376xg	/		/	/	/	/	/
 36*10mL Angle Rotor	4500rpm	3331xg	/		/	/	/	/	/
 6*50/10mL Angle Rotor	5000rpm	3776xg	/		/	/	/	/	/
			/		/	/	/	/	/
 12*15mL Angle Rotor	6000rpm	5103xg	/		/	/	/	/	/
 4*100mL Swing-bucket Rotor	4300rpm	3052xg			100mL Hanging Cup (Standard)	100mL	4	4*1	38*118
				/	Hanging Cup Adapter 5mL Blood Collection Tubes	5mL Blood Collection Tubes	12	4*1*3	12*105
				*3	Hanging Cup Adapter 3mL Blood Collection Tubes	3mL Blood Collection Tubes	12	4*1*3	12*80
					Hanging Cup Adapter 50mL (Conical)	50mL	4	4*1	29*115
					Hanging Cup Adapter 50mL (Round Bottom)	50mL	4	4*1	29*115
					Hanging Cup Adapter 15mL (Conical)	15mL	4	4*1	17*121
					Hanging Cup Adapter 15/10mL (Round Bottom)	15/10mL	4	4*1	17*106/15*105

Rotor Type	Max. Speed	Max. RCF	Adapter		Explanation	Capacity	Maximum Number of Tubes	Configuration (Rotor Holes*Adapter Holes)	Maximum Tube Dimensions (Φ*Lmm)
 4*100mL Swing-bucket Rotor	4300rpm	3052xg		/	Blood Collection Tube Hanging Basket	5mL blood collection tubes	32	4*1*8	12*105
						3mL blood collection tubes	32	4*1*8	12*80
					5mL Blood Collection Tube Automatic Cap Removal Adapter	5mL blood collection tubes	32	4*1*8	12*105
					3mL blood collection tube automatic cap removal adapter	3mL blood collection tubes	32	4*1*8	12*80

Liquid Nitrogen IOT Solution

Industry Application

Biobank Series

Semi-Automatic Series

Small Vapor Phase Tanks

Laboratory Series

Static Storage Series

Portable Storage Series

Transport Storage Series

Air Transport Series

Self-pressurized Series

Programmable Controlled-rate Freezer

Hoisting System

Accessories



Biobank Series

Biobank series provides users with a safe and reliable deep cryogenic LN2 storage system. The tank is made of high-quality stainless steel, with casters and brakes, a hinged lid for easy opening, and a large aperture opening facilitates sample storage. Samples can be stored in liquid and vapor phases, and the microcomputer touch control system provides greater convenience and safety.



Features

Biobank series provides users with a safe and reliable solution for deep cryogenic LN2 storage. Samples can be stored in liquid and vapor phases, the intelligent control system provides digitalized, information-based, and standardized sample management, enabling clients to maximize sample storage capacity. It is primarily designed for large-capacity cryogenic storage needs, such as in large-scale laboratories, biobanks, and sample repositories.



Advantages



Large Capacity

Multiple configuration options to meet storage needs ranging from 13,000 to 128,350 samples, reducing sample storage costs while saving time.



Automatic Filling and Liquid Level Monitoring

The liquid level monitoring system with capacitive sensor shows the liquid level in real time to ensure safe liquid nitrogen automatic filling. The 10-inch LCD touch screen can display top and bottom temperature, liquid level, operating status and other parameters.



Advanced Temperature Monitoring System

The microprocessor-based and dual platinum RTD probes (top/bottom) monitoring system display real-time maximum/minimum temperatures inside the tank with $\pm 1^{\circ}\text{C}$ accuracy. Users can set their own alarm point, there are alarm mute options.



Excellent Temperature Uniformity

Vacuum insulated stainless steel box structure ensures superior thermal insulation and temperature retention performance.



Stable Opening Temperature

An innovative tank lid design with an offset neck opening significantly reduces liquid nitrogen evaporation rates.



Hot Gas Bypass

The hot gas bypass design can remove room temperature nitrogen in the pipeline before the liquid nitrogen is injected. It ensures only ultra-low temperature liquid nitrogen into the tank, avoiding temperature variation in the tank when charging liquid, affecting the safety of the sample, and reducing the additional liquid nitrogen consumption.



Humanized Design

Stainless steel auxiliary table can be used for temporary placement of frozen shelf to speed up sample taking and placing; The integrated folding step reduces the height of operation, convenient for taking and placing. Internal rotating tray spare opening to find dropped samples expediently.

Sample Management System

It can realize digitizationl, informatization, and standardized management. It can also realize information interaction between touch screen, PCs, and mobile interfaces, further improving the safety, accuracy, and convenience of sample management and maximizing the use of sample resources.



- Fully automatic liquid nitrogen supply
- Temperature Monitoring
- Abnormal sound and Light alarm reminders
- Operation permission setting
- Liquid nitrogen splash prevention structure
- Liquid level Monitoring
- Operation/Alarm Parameter Settings
- Local monitoring center
- Hot gas bypass structure
- Automatically record liquid level, temperature and other data
- Multiple alarm self-diagnosis

Specifications

Model	MYDD-350(R)	MYDD-450(R)	MYDD-550(R)	MYDD-750(R)	MYDD-850(R)	MYDD-1000(R)
Liquid nitrogen at the bottom of the tray(L)	55	58	85	85	135	135
Effective volume(L)	371	472	673	803	936	1039
Caliber(mm)	317	317	440	440	465	465
Internal effective height(mm)	667	888	662	880	795	907
Outer diameter(mm)	860	860	1160	1160	1190	1190
Total height(mm)	1415	1645	1536	1755	1690	1775
Lifting arm height(mm)	2487	2708	2571	2817	2692	2805
Empty tank weight(kg)	262	320	440	475	462	505
Total weight at full load(mm)	560	700	990	1185	1220	1320
Door width requirement≥mm	900	900	1250	1250	1300	1300
Maximum storage quantity of 2ml revolve freezing tube						
1.2、1.8、2ml revolve freezing tube quantity	13000	18200	27000	37800	42900	49500
5*5 square bucket quantity	4	4	12	12	4	4
10*10 square bucket quantity	12	12	24	24	32	32
5*5 box quantity(25)	40	56	120	168	52	60
10*10 box quantity(100)	120	168	240	336	416	480
Layers of square bucket	10	14	10	14	13	15

Features

Large Capacity

Multiple configuration options to meet storage needs ranging from 13,000 to 128,350 samples, optimizing space utilization while reducing storage costs.

Large Caliber

Extra-large caliber, including tank calibers of 317, 440, 465, and 635, convenient for sample storage and easy to use.

Optional Vapor Phase & Liquid Phase

The vapor phase or liquid phase storage method can be freely selected, and the storage area temperature is constant and close to the liquid nitrogen temperature when the vapor phase is used.

Low Energy Consumption & High Cooling Retention

High vacuum insulation,wrapped multi-layer insulation technology, uniform and stable insulation design, can achieve low energy consumption of the container, and keep the port temperature stable below -190℃.

Intelligent Monitoring

Optional intelligent monitoring system enables high-precision temperature and liquid level monitoring for LN tanks, and provides local and remote warnings via SMS, phone calls, WeChat, etc. to ensure the safety of samples.

Intelligent Fluid Replenishment

Through precise monitoring of internal temperature and liquid level in LN2 tanks,complemented by an automated refill system, intelligent management of liquid nitrogen replenishment is achieved.

Intelligent Management

10-inch LCD screen,user-friendly design,simple one-click operation make sample partitioning easily and sample storage and access more conveniently.

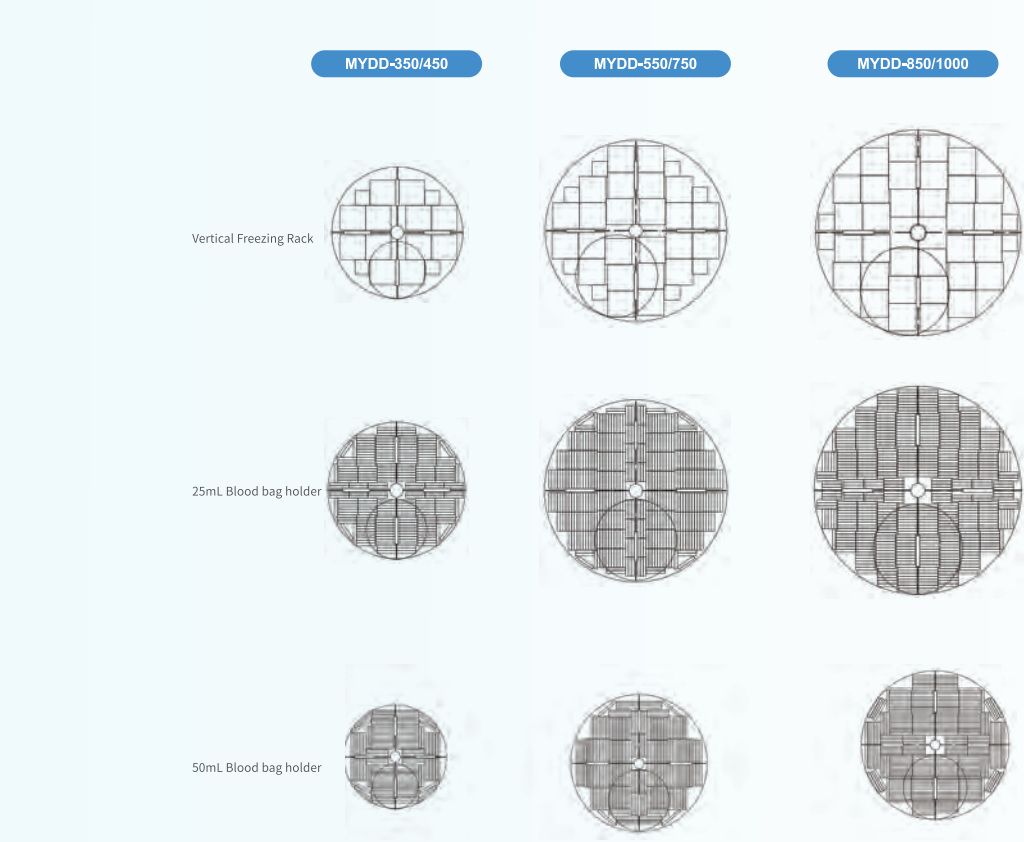
Automated Auxiliary System

Optional detachable auxiliary lifting device, convenient operation, and free control of sample storage and access.

Intelligent Management

The management system can be connected to the server via 4G IoT or WIFI, and users can view monitoring data on a computer or APP.

Cryo Rack Layout Diagram



Semi-automatic Series



Advantages



Lifting System

The modular design of the lifting system, the base can be flexibly configured according to different tank specifications, different column height can adapt to different user site height, the standardized cantilever system is equipped with linear and rotary slides, which can be automatically guided according to the position of the cryopreservation rack. The operation of biobank has never been so easy and convenient.



Precious Metal Vacuum Adsorption

Advanced precious metal vacuum adsorption technology can fully absorb various gaseous media slowly released from metal surfaces and interlayer materials during use, eliminate soft vacuum phenomena, and truly ensure long-term vacuum maintenance.

- Equipped with automatic auxiliary lifting device
- Integrated automatic rotation positioning system
- One-touch automatic lid-opening design

Features

- Double solenoid valve automatic filling system, automatic switching, to ensure the normal operation of the system;
- Auto-Defogging when lid opens;
- Hot gas bypass, effectively avoiding temperature fluctuations in the tank caused by liquid nitrogen filling;
- Bearingless turntable support to prevent turntable jamming;
- Dual platinum temperature probe, temperature accuracy $\pm 0.1^{\circ}\text{C}$;
- Capacitive liquid level gauge, liquid level accuracy $\pm 5\text{mm}$;
- Filling port equipped with filter to prevent valve clogging;
- All series are equipped with I Point control system as standard, with intelligent monitoring and alarm functions, real-time viewing by the client;
- Full-size operating platform;
- Multi-dimensional free slide rail design, the lifting arm can rotate freely and slide radially;
- The lifting rope can automatically correct the position with the center of gravity of the lifting frame;

Specifications

Net weight	17KG
Maximum lifting radius	730mm
Cantilever rotation freedom	-175°~ +175°
Jib cable travel distance	≥600mm
Lifting/Lowering speed	70mm/s
Maximum lifting weight	15KG

Small Vapor Phase Tanks

Building upon traditional aluminum alloy liquid nitrogen containers, this system integrates an intelligent monitoring terminal for which can realize real-time temperature and liquid level monitoring, data backup and remote alarm, and has automatic liquid replenishment function.

It is suitable for users such as scientific research institutes, laboratories, reproductive centers, disease control centers, etc. who need to store reagents, vaccines, embryos and other biological samples in a low-temperature environment for a long time.



Advantages



Optional Vapor Phase & Liquid Phase

The vapor phase or liquid phase storage method can be freely selected, and the storage area temperature is constant and close to the liquid nitrogen temperature when the vapor phase is used.



Intelligent Fluid Replenishment

Through precise monitoring of internal temperature and liquid level in LN₂tanks, complemented by an automated refill system, intelligent management of liquid nitrogen replenishment is achieved.

Specifications

Model		MYDS-65-216P-FS	MYDS-115-216P-FS	MYDS-145-216P-FS	MYDS-175-216P-FS
Geometric volume(L)		65	115	145	175
Caliber(mm)		216	216	216	216
Cryobox Specifications		9*9	9*9	9*9	9*9
Square bucket	Quantity(ea)	6	6	6	6
	Size(mm)	139*141	139*141	139*141	139*141
	Box size(mm)	132*132	132*132	132*132	132*132
	Number of square bucket layers(ea)	4	6	8	10
	Quantity of 2ml internal revolve tube	2400	3600	4800	6000
Height		785	905	1040	1090
Outer diameter(mm)		678	678	678	678
Empty weight(kg)		29	40	45	66
Lock cover		Standard	Standard	Standard	Standard
Bucket		Standard	Standard	Standard	Standard
Cryobox		Standard	Standard	Standard	Standard
Cryogenic gloves		Opention	Opention	Opention	Opention
Transport trolley		Opention	Opention	Opention	Opention

Laboratory Series

The laboratory series products are compact and lightweight, low-liquid nitrogen consumption, moderate cryogenic storage capacity, small footprint, and convenient access, easily meet the needs of laboratory professionals. They are widely used by specialized users including laboratories, university research institutions, medical facilities, and other professional organizations.



Advantages

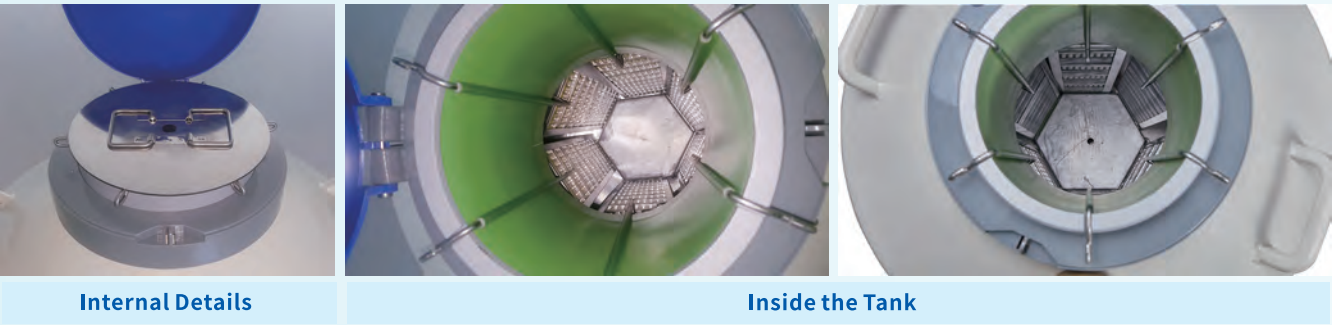
- AL

Compact and Lightweight
Special durable aluminum construction, compact and lightweight
- Y

Low Liquid Nitrogen Consumption
High-vacuum insulation technology & wrapped multilayer insulation can easily achieve low energy consumption. Some products can achieve a minimum static evaporation rate of 0.33L/D and a maximum static liquid nitrogen storage of 202D.
- Low Heat Transfer Design**
Special insulated connection between the inner and outer tanks, narrow-neck design, special fiberglass material to block the heat conduction inside and outside the liquid nitrogen tank, achieve cliff-like insulation of the inner and outer tanks, and ensure uniform temperature inside the tank.
- Multi-product Options**
The 125 and 216mm diameters can be combined with 100 to 7,000 2mL standard cryotubes to perfectly match laboratory needs. A variety of products are available, and there is a long-term storage design to easily take and place samples.
- 1 2
3 4

Convenient Access
The cryoracks and boxes are marked to help users to find the samples quickly and efficiently.
- Standard Multi-layer Square Buckets**
Specially designed for biological sample storage, especially for medical and biological research fields. Storage products large capacity, occupy a small space.
- Optional Smart Stopper**
High-precision level and temperature monitoring with real-time display, and free setting of SMS, phone, WeChat and other alarms.
- Optional Transport Trolley**
Optional transport carts in various specifications are available for easy tank mobility.

Internal Details



Specifications

Model		MYDS-10-125-FS	MYDS-30-125-FS	MYDS-35-125-FS	MYDS-50-125-FS	MYDS-65-216-FS	MYDS-95-216-FS	MYDS-115-216-FS	MYDS-145-216-FS	MYDS-175-216-FS
Geometric volume(L)		10	32	35.5	50	65	95	120	145	175
Caliber(mm)		125	125	125	125	216	216	216	216	216
Square bucket	Quantity(ea)	1	6	6	6	6	6	6	6	6
	Size(mm)	81*85	81*85	81*85	81*85	139*141	139*141	139*141	139*141	139*141
	Box size(mm)	76*76	76*76	76*76	76*76	132*132	132*132	132*132	132*132	132*132
	Number of square bucket layers(ea)	4	4	5	6	4	5	6	8	10
	Quantity of 2ml external revolve tube	100	600	750	900	1944	2430	2916	3888	4860
	Quantity of 2ml internal revolve tube	100	600	750	900	2400	3000	3600	4800	6000
Height		584	736	805	820	785	840	905	1040	1090
Outer diameter(mm)		300	451	451	508	678	678	678	678	678
Empty weight(kg)		8.5	16	18	21	42	45	48	56	58
Lock cover		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Bucket		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Cryobox		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Smart stopper		Option	Option	Option	Option	Option	Option	Option	Option	Option
Transport trolley		Option	Option	Option	Option	Option	Option	Option	Option	Option

Static Storage Series

The Static Storage Series is an economical small-sized liquid nitrogen tank designed for laboratory use, specifically designed for the long-term static storage of biological samples. There are two types of products: large capacity and ultra-long shelf life.The product is made of high-strength lightweight aluminum alloy and contains multiple layers of super-high performance insulation, which makes the product safe, light and efficient.



Advantages

- Compact and Lightweight**

Special durable aluminum structure,featuring high strength and lightweight properties.
- low Liquid Nitrogen Consumption**

High-vacuum insulation technology & wrapped multi-layer insulation easily achieves low energy consumption of the container and ultra-low evaporation loss of liquid nitrogen.
- Low Heat Transfer Design**

Special insulated connection between the inner and outer tanks, narrow-neck design, special fiberglass material to block the heat conduction inside and outside the liquid nitrogen tank, achieve cliff-like insulation of the inner and outer tanks, and ensure uniform temperature inside the tank.
- Large-capacity Storage**

It offers single-layer and double-layer straw storage options, compatible with cryotube racks for storing 0.5mL to 5mL cryotubes.

1 | 2
3 | 4

Convenient Access

The cryoracks and boxes are markes to help users to find the samples quickly and efficiently.

Standard Multi-layer Round Buckets

The square buckets are marked to help users to find the samples quickly and efficiently.

Optional Smart Stopper

High-precision level and temperature monitoring with real-time display. and free setting of SMS, phone, WeChat and other alarms.

Optional Transport Trolley

Optional transport carts in various specifications are available for easy tank mobility.

Specifications

Model	MYDS-10-80-LS	MYDS-13-LS	MYDS-15-LS	MYDS-20-LS	MYDS-30-LS	MYDS-47-127-LS
Geometric volume(L)	10	13	16	20	31.5	47
Caliber(mm)	80	50	50	50	50	127

Storage capacity

Round Buckets	Quantity(ea)	6	6	6	6	6	10
	Outer diameter(mm)	63	38	38	38	38	72
	Height(mm)	120	120	120	120	120	120
	Straw capacity: 0.25mL	4986	1716	1716	1716	1716	10600
	Straw capacity: 0.5mL	2250	794	794	794	794	5000

Container size

Height(mm)	557	630	618	688	681	730
Outer diameter(mm)	300	300	396	396	451	508
Empty weight(including bucket)(kg)	6.3	6.3	10.0	12.2	15.5	19.2

Accessories

Lock cover	Standard	Standard	Standard	Standard	Standard	Standard
Round bucket	Standard	Standard	Standard	Standard	Standard	Standard
Cryogenic gloves	Standard	Standard	Standard	Standard	Standard	Opention
Transport trolley	Opention	Opention	Opention	Opention	Opention	Opention
Smart stopper	Opention	Opention	Opention	Opention	Opention	Opention

Portable Storage Series

The portable storage series is an economical and practical small liquid nitrogen tank, specially designed for biological samples that need to be frequently moved and stored.This series is small in size and light in weight, made of high-strength lightweight aluminum alloy, and contains multiple layers of super-high performance thermal insulation layers, making the product safe, light and efficient, It also offers a variety of optional accessories.

Advantages

AL

Compact and Lightweight

Special durable aluminum structure,featuring high strength and lightweight properties.

Low Liquid Nitrogen Consumption

High-vacuum insulation technology & wrapped multi-layer insulation easily achieves low energy consumption of the container and ultra-low evaporation loss of liquid nitrogen.

Safety Lock Cover

Standard safety lock cap to prevent unauthorized access.

Low Heat Transfer Design

Optional liquid level monitoring system can realize real-time temperature monitoring, liquid level monitoring, and remote monitoring alarm;
Optional temperature monitoring can monitor temperature data in real time and realize remote alarm.

LN2 STORAGE

155

156

Specifications

Model	MYDS-2-30-LS	MYDS-2-35-LS	MYDS-3-LS	MYDS-6-LS	MYDS-10-LS
Geometric volume(L)	2	2	3.15	6	10
Caliber(mm)	30	35	50	50	50
Storage capacity					
Round Buckets	Quantity(ea)	3	3	6	6
	Outer diameter(mm)	19	25	38	38
	Height(mm)	120	120	120	120
	Straw capacity: 0.25mL	195	345	1716	1716
	Straw capacity: 0.5mL	90	159	792	794
Container size					
Height(mm)	410	420	441	488	566
Outer diameter(mm)	224	195	224	300	300
Empty weight(including bucket)(kg)	2.5	2.9	3.5	5.3	6.0
Accessories					
Lock cover	Standard	Standard	Standard	Standard	Standard
Round bucket	Standard	Standard	Standard	Standard	Standard
Cryogenic gloves	Standard	Standard	Standard	Standard	Standard

Transport & Storage Series

The transport storage series is an economical compact liquid nitrogen transport tank, specially designed for biological samples that need to be transported or stored statically. The product is made of high-strength lightweight aluminum alloy and contains multiple layers of super-high performance thermal insulation, making the product safe, light and efficient.





Advantages

- AL

Compact and Lightweight

Special durable aluminum structure combines high strength with lightweight properties, featuring an ergonomic handle for easy portable transfer.
- Low Heat Transfer Design**

Special insulated connection between the inner and outer tanks, narrow-neck design, special fiberglass material to block the heat conduction inside and outside the liquid nitrogen tank, achieve cliff-like insulation of the inner and outer tanks, and ensure uniform temperature inside the tank.
- Low Liquid Nitrogen Consumption**

High-vacuum insulation technology & wrapped multi-layer insulation easily achieves low energy consumption of the container and ultra-low evaporation loss of liquid nitrogen.
- 1 | 2

3 | 4

Convenient Access

The square buckets are marked to help users to find the samples quickly and efficiently.
- Small Caliber Design**

Independently designed for transport scenarios, available in 30mm, 35mm, 50mm, and 80mm diameters with straw storage compatibility, ensuring portable mobility with secure reliability.
- Safety Lock Cover**

Optional safety lock cap to prevent unauthorized access.
- Optional Transport Trolley**

Optional transport carts in various specifications are available for easy tank mobility.

Specifications

Model		MYDS-20B-LS	MYDS-30B-LS	MYDS-35B-LS	MYDS-50B-LS
Geometric volume(L)		20	31.5	35.5	50
Caliber(mm)		50	50	50	50
Storage capacity					
Round Buckets	Quantity(ea)	6	6	6	6
	Outer diameter(mm)	38	38	38	38
	Height(mm)	120	120	120	120
	Straw capacity: 0.25mL	1716	1716	1716	1716
	Straw capacity: 0.5mL	794	794	794	794
Container size					
Height(mm)		688	681	735	777
Outer diameter(mm)		396	451	451	508
Empty weight(including bucket)(kg)		12.2	15.5	16.8	20.2
Accessories					
Lock cover		Standard	Standard	Standard	Standard
Round bucket		Standard	Standard	Standard	Standard
Cryogenic gloves		Standard	Standard	Standard	Standard
Transport trolley		Opention	Opention	Opention	Opention
Smart stopper		Opention	Opention	Opention	Opention

Air Transport Series

The air transport series is suitable for the transportation requirements of samples in deep cryogenic environments. The targeted internal liquid nitrogen adsorbent design effectively absorbs and preserves liquid nitrogen. Even if the container is tipped over, liquid nitrogen will not overflow. The special stainless steel mesh screen separates the storage space and the liquid nitrogen adsorbent, effectively preventing the liquid nitrogen adsorbent material from mixing into the cryotube, and avoiding the danger of liquid nitrogen release during transportation. It is especially suitable for short-term air transportation such as airplanes.



Advantages

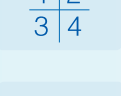
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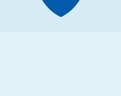
Liquid Nitrogen Adsorbent
The targeted internal liquid nitrogen adsorbent design effectively absorbs and preserves liquid nitrogen,Even if the container is tipped over, liquid nitrogen will not overflow,ensuring safe transportation.
- 

Mesh Screen-dividing Storage
Special stainless steel mesh screen separates the storage space and liquid nitrogen adsorbent, effectively preventing the LN2 adsorbent material from mixing into the cryopreservation tube and ensuring sample safety.
- 

Compact and Lightweight
Specially durable aluminum structure combines high strength with lightweight properties, featuring an ergonomic handle for easy portable transfer.
- 

Low Liquid Nitrogen Consumption
High-vacuum insulation technology & wrapped multi-layer insulation easily achieves low energy consumption of the container and ultra-low evaporation loss of liquid nitrogen.
- 

Low Heat Transfer Design
Special insulated connection between the inner and outer tanks, narrow-neck design, special fiberglass material to block the heat conduction inside and outside the liquid nitrogen tank, achieve cliff-like insulation of the inner and outer tanks, and ensure uniform temperature inside the tank.
- 

Convenient Access
The buckets are marked to help users to find the samples quickly and efficiently.
- 

Safety Lock Cover
Optional safety lock cap to prevent unauthorized access.



Specifications

Model		MYDS-6H-190-FS	MYDS-10H-125-FS	MYDS-25H-216-FS
Geometric volume(L)		6	10	25
Caliber(mm)		190	125	216
Storage capacity				
Square buckets	Quantity(ea)	1	1	1
	Size(mm)	62*143*276	81*85*225	139*141*336
	Box size(mm)	132*132	76*76	132*132
	Number of square bucket layers(ea)	2	4	5
	Quantity of 2ml internal revolve tube (ea)	162	100	405
Container size				
Height(mm)		519	584	741
Outer diameter(mm)		254	300	396
Empty weight(including bucket)(kg)		7.2	8.5	19.5
Accessories				
Lock cover		Standard	Standard	Standard
Bucket		Standard	Standard	Standard
Cryogenic GloveS		Standard	Standard	Standard

Self-pressurized Series

The liquid nitrogen replenishment series is mainly used for storing liquid nitrogen in large liquid nitrogen tanks, and is suitable for major central laboratories, sample libraries and other scenarios. It is a high-performance low-temperature liquid nitrogen medium storage container that uses a small amount of liquid in the container to generate pressure, so that the container automatically discharges liquid, thereby replenishing liquid nitrogen for other containers. This series of products are fully equipped with safety structures such as booster valves, drain valves, emptying valves, and pressure gauges to serve laboratory users and chemical enterprise users for liquid nitrogen storage or automatic liquid nitrogen replenishment.



Advantages

- **High-performance Cryogenic Container**

The pressure is generated by the gasification of a small amount of liquid in the container, so that the container automatically discharges the liquid, thereby replenishing liquid nitrogen for other containers.
- **Durable**

Stainless steel material and structural design ensure durable and safe operation even in harsh operating environments.
- **Small Caliber Design**

Special small caliber design ensures lower liquid nitrogen evaporation loss rate;
- **Safe and Stable**

This series of products are fully equipped with pressure relief valves, drain valves, drain valves pressure gauges and other structures to ensure safe operation.
- **User Friendly**

All models are equipped with four universal casters to facilitate the container to move to different places for use.
- **Automatic Liquid Refill**

It can be matched with intelligent monitoring terminal to realize automatic LN2 replenishment of large stainless steel liquid nitrogen tanks.



Specifications

Model	MYDZ-30	MYDZ-50	MYDZ-100	MYDZ-150	MYDZ-200	MYDZ-230	MYDZ-300	MYDZ-500
Geometric volume(L)	33	55	110	165	220	250	330	550
Outer diameter(mm)	404	455	556	656	656	656	806	958
Total height(mm)	850	980	1125	1110	1280	1580	1410	1613
Empty tank weight(kg)	28	39	61	85	97	137	143	191
Liquid nitrogen static daily evaporation tate(%)	3.00	2.20	1.20	1.00	0.80	0.60	0.80	0.80
Standard operating pressure (MPa)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Maximum operating pressure (MPa)	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Infusion volume(L/Min)	≥5	≥5	≥5	≥5	≥10	≥10	≥11	≥12
Opening pressure of Primary safety valve(MPa)	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099
Opening pressure of secondary safety valve(MPa)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Pressure gauge indication range(MPa)	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25
Infusion hose	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Digital level gauge	Opention	Opention	Opention	Opention	Opention	Opention	Opention	Opention

Programmable Controlled-Rate Freezer

The programmed cooling instrument is a high-performance, safe and reliable freezing system with adjustable temperature change rate. It is now widely used in various fields such as light industry, agriculture, medicine, basic biological research, etc., and is used for freezing lymphocytes, tissue banks, bone marrow cells, tumor cells, animal and plant cells, myocardial cells, etc. The newly designed integrated system adopts the latest temperature control technology and liquid nitrogen dispersion technology to make the programmed cooling process uniform and stable, and can perform IQ/OQ operations, effectively meeting the needs of GLP laboratories.



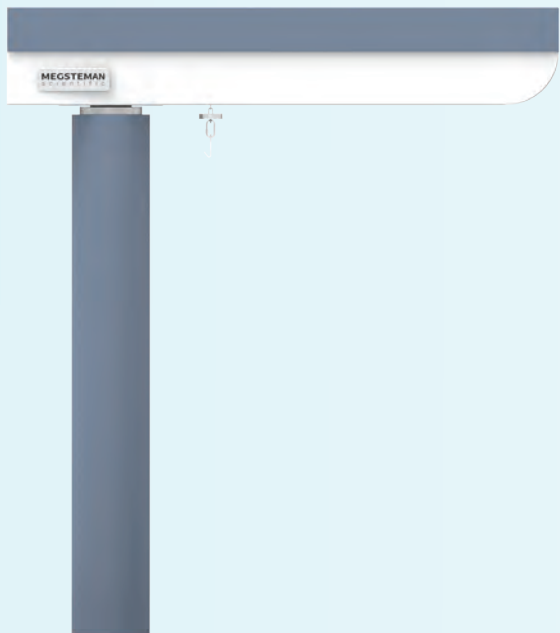
Features

- Microprocessor control, high control accuracy;
- Temperature range: +50°C~-190°C; Control accuracy: $\pm 0.3^{\circ}\text{C}$
- Cavity structure with powder coating, sturdy and durable;
- In-situ foam insulation design, good thermal insulation performance, high temperature uniformity;
- Stainless steel inner wall, silent operation, quiet operation;
- Equipped with 2 temperature probes, independent sample & cavity temperature probes, dual probes for precise temperature control, touch screen for simultaneous display;
- Front door for easy sample placement and removal, the instrument comes with at least 6 common programs, covering most user purposes ; Users can create any different cooling programs, each program is stored in different folders on the computer and can be called at any time;
- The freezing curve can display sample temperature and cavity temperature, melting latent heat and other parameters to ensure that the entire operation process is documented and intuitive and reliable;
- Temperature deviation< 2°C (temperature difference between two points in the chamber during cooling);
- The built-in fan (with protective net) provides horizontal laminar circulation air, evenly disperses the injected liquid nitrogen, and ensures temperature uniformity;
- Configuration management software, with audit tracking function, can set permissions, and data cannot be modified.

Specifications

Model	MCX-17	MCX-34	MCX-51
2ml cryotube	380	810	1190
5ml cryotube	228	486	714
0.25ml straw (ea)	594	1188	1782
0.5ml straw (ea)	450	900	1350
Temperature range	+50°C~-190°C	+50°C~-190°C	+50°C~-190°C
Dimensions(mm)	860*540*550	1006*540*550	1190*540*550
Capacity	17	34	51
Empty weight(kg)	73	86	97
Cooling rate	0.1~99.9/Min	0.1~99.9/Min	0.1~99.9/Min
Heating rate	0.1~12/Min	0.1~12/Min	0.1~12/Min
Control mode	Microcomputer control	Microcomputer control	Microcomputer control
Program control	Sample /chamber temperature	Sample /chamber temperature	Sample /chamber temperature
Display	10-inch touch screen	10-inch touch screen	10-inch touch screen

Hoisting System



Product Features



Robust and Durable

Made of 304 stainless steel, stamped and formed, robust and durable, resistant to breakage;



Damage-free Installation;

Match the tank model and install the corresponding base without damaging the tank.



Effort-saving Access

Automated retrieval and placement of cryopreservation racks within the tank can be achieved through mechanized lifting functions; Convenient Control



Convenient Control

The lifting system can be controlled by either a fixed panel or a remote control.



Safety Without Worries

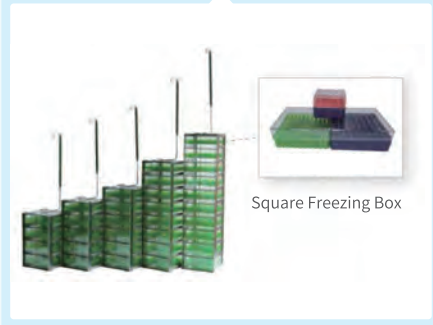
Multi-dimensional free sliding rail design, the lifting cable can automatically correct its position based on the changes in the center of gravity of the storage rack, ensuring stability during the extraction process

Specifications

Product Name	TD-1200	Degree of rotation	350
Total height	1300mm (Height adjustable)	Material	304 Stainless steel
Cantilever height	1100mm	Electricity requirements	220V
Self-weight	18.5Kg	Working environment	4°C~40°C
Maximum lifting capacity	15Kg	Travel distance of the cantilever hoist rope	<1100mm
Reach extension distance	260-610mm	Cantilever rotational degree of freedom	-175° ~+175°
Lifting speed	60mm/s		

Accessories

Square Bucket



Round Freezing Box



Blood Bag Holder



Accessories



Other Accessories



Biosafety Solution

Megsteman Biological Safety Cabinet (Type IIA2)

Pro Series

Standard Series

Megsteman Clean Bench (Vertical Laminar Flow)

Standard Series



Megsteman Biological Safety Cabinet (Type IIA2)

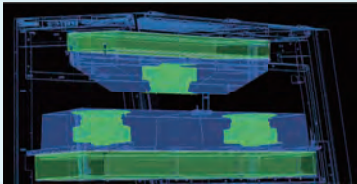
PRO Series



Scope of Application

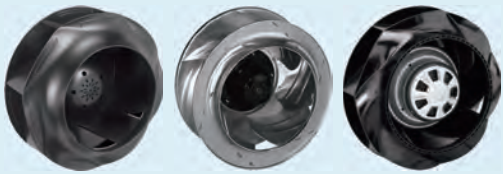
A professional air purification solution designed for medical and healthcare facilities, scientific research laboratories, and academic institutions. Ideal for applications requiring personnel, product, and environmental protection.

Intelligent Control



Cutting-edge Control Technology

Advanced self-regulating speed control ensures a consistent and stable flow of downflow and inflow air. This enhances both safety and system durability. The DC centrifugal fan design delivers high efficiency with low noise output.



Premium EC Fan

Equipped with a high-performance, maintenance-free EC fan, enabling independent control of downflow and inflow velocities for improved air stability and reduced failure rates.



Touch Screen Interface

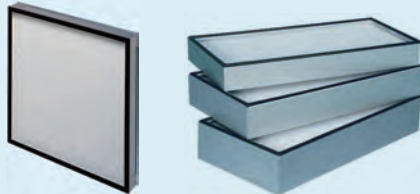
A 7-inch LCD touchscreen provides real-time dynamic display of critical operating parameters, including downflow and inflow velocity, remaining life of the UV lamp and filters, temperature, humidity, system status, and usage data.



High-Precision Airflow Sensors

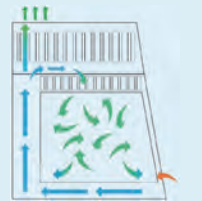
Dual wind speed sensors detect and regulate airflow in real time with high accuracy, ensuring consistent performance and optimal safety control.

Safety Design



Ultra-Efficient Filtration

Employing dual ultra-high efficiency ULPA filters, the cleanliness meets ISO Class 3 standards. For solid particles $\geq 0.12\mu\text{m}$ in diameter, the filtration efficiency is no less than 99.9995%.



Fan Interlock System

In the event of airflow disruption, the fan auto-adjusts to maintain inward airflow, preventing leakage and ensuring operator protection.



Leak-Proof Negative Pressure Design

A double-layer cabinet design with negative pressure containment and rigorous leak detection. Door-fan linkage ensures no leakage during operation.

User-friendly Design



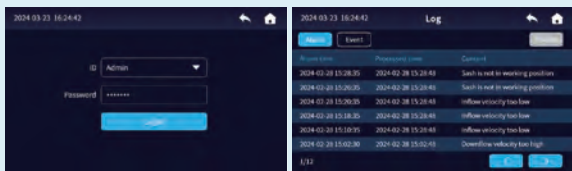
Powerful UV Sterilization

UV lamp is integrated with door and lighting controls, with programmable sterilization timing. The concealed UV lamp design protects users' eyes. UV intensity exceeds standard requirements by over 5 times.



Ergonomic Design

A 10° tilted front window and full-body armrest reduce operator fatigue and prevent blockage of airflow, maintaining ergonomic comfort and operational safety.



Comprehensive Safety Management

Administrator permissions, parameter controls, and historical record tracking ensure safe, reliable operation. Equipped with 26 types of audible and visual alarms to minimize errors and maintain operational integrity.



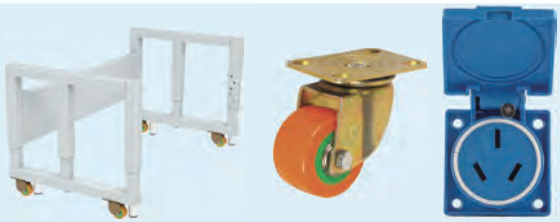
Socket Overload Protection

Built-in overload protection isolates socket issues from airflow systems. Sockets can be preset for auto-shutdown to meet specific experiment needs.



Dual Operating Modes

Sash Down: System enters ECO mode with low-speed fan operation
Sash Up: System switches to working mode and adjusts fan speed accordingly



Fully Equipped Configuration

Includes:

- 304 stainless steel work surfaces
- Spill-resistant drain trough & drain valve
- Utility service ports
- Splash-proof socket
- Universal casters

Complete with all features required for safe and versatile operation.



Design Aesthetics

Sleek, modern design with refined craftsmanship—simple, elegant, and high-end in appearance.

Structural Diagram



Technical Parameters

Product model	BSC900-IIA2-W	BSC1200-IIA2-W	BSC1500-IIA2-W	BSC1800-IIA2-W
Cleanliness class	ISO 3	ISO 3	ISO 3	ISO 3
Filter efficiency	99.9995%@0.12μm	99.9995%@0.12μm	99.9995%@0.12μm	99.9995%@0.12μm
Downflow velocity	0.32m/s	0.32m/s	0.32m/s	0.32m/s
Inflow velocity	0.53m/s	0.53m/s	0.53m/s	0.53m/s
Noise	≤62dB(A)	≤62dB(A)	≤62dB(A)	≤62dB(A)
Average illumination	≥1000lx	≥1300lx	≥1500lx	≥1300lx
Weight	210kg	251kg	288kg	327kg
Fluorescent light specification and quantity	LED 9W*2	LED 18W*2	LED 23W*2	LED 23W*2
Uv light specification and quantity	40W*1	40W*1	40W*1	40W*1
External Dimensions (W*D*H)	1008*822*2088mm	1308*822*2088mm	1608*822*2088mm	1908*822*2088mm
Working area dimensions (W*D*H)	900*625*650mm	1200*625*650mm	1500*625*650mm	1800*625*650mm
Vibration/half peak value	≤5μm	≤5μm	≤5μm	≤5μm
Input power	1400VA	1600VA	1800VA	2000VA
Applicable number of persons	1	1~2	2	2~3

*The models, parameters and performance provided in this promotional material may change due to product upgrades .
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Megsteman Biological Safety Cabinet (Type IIA2)

Standard Series



Expanded Scope of Application

The Class IIA2 Biological Safety Cabinet is designed with a front-access sash, enabling safe manipulation inside the workspace while protecting users, products, and the environment.
Applications: Research, education, clinical diagnostics, microbiology, biopharmaceuticals, genetic engineering, and biomedical sciences.

Features

01 Intelligent System

Wind speed self-regulating ensure stable down and inflow airflow speeds and enhance safety and durability;
DC centrifugal fan design Low noise and high efficiency.

02 Precise Sensor

High-precision sensors provide real-time, accurate detection of down and inflow velocities, ensuring stable regulation of airflow velocity by the control system.

03 Reliable Motor Fan

Both inflow and downflow can be controlled by high-configuration EC motor fan independently, reducing fan failure rates and improving product maintainability.

04 5 Inch LCD Display

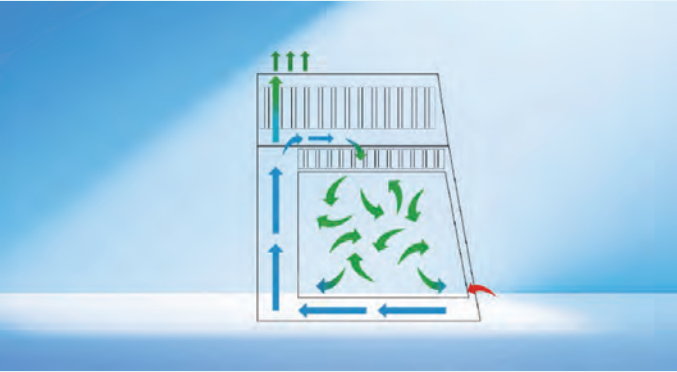
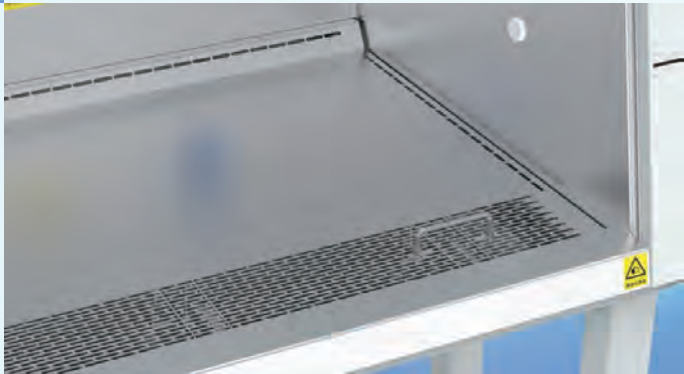
Dynamic real-time display of down and inflow airflow velocity, lifetime of UV lamp and filter, temperature and humidity, date/time, product usage status, etc.

Safety Guarantee



Ultra Filtration
U15 ultra-high efficiency filter compliant with EN 1822 standard.
Filtration efficiency for particles with a diameter of 0.12μm ≥99.9995%.

Air Curtain
The air intake grille design ensures even airflow distribution and maintains negative pressure inside the cabinet while preventing pipette tips from accidentally falling into the collection tray.



Negative Pressure Anti-leakage
Double-layer cabinet surrounded by negative pressure, with strict cabinet leak detection and door-fan linkage, the equipment provides continuous assurance of no contamination leakage during operation.

Fan Interlock
When unexpected turbulence occurs in the downflow, the fan control automatically ensures that the airflow remains uninterrupted, preventing harmful substances from escaping and ensuring the safety of operators during experiments.



ECO Mode
The equipment runs at low speed and enters energy-saving mode when the sash is pulled down. The equipment quickly adjusts its speed and starts working to reduce pollution when the sash is up.

User-centric Design



Exhaustive Sterillization
UV lamp is interlocked with the sash and lighting, UV appointment time and sterilization duration setting is available. The hidden lamp tube design prevents direct exposure to the eyes. UV intensity exceeds the standard requirement by more than 5 times.



Ergonomic Design
10° ergonomic tilt panel effectively reduces fatigue during long periods of work.



Extensive Configuration
304 stainless steel worktray + liquid collection tank + drain valve + service interface + splash-proof socket + universal casters, fully equipped to meet all usage requirements.



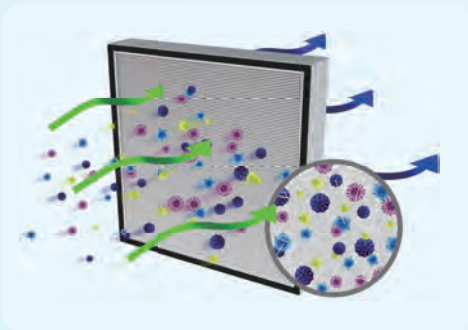
Design Aesthetics
Simple and elegant appearance, harmonious and beautiful, with a sense of high-end craftsmanship aesthetics.

Parameters

Model	BSC1830-IIA2	BSC1530-IIA2	BSC1230-IIA2	BSC930-IIA2
Cleanliness level	ISO 3	ISO 3	ISO 3	ISO 3
Filtration efficiency	99.9995%@0.12μm	99.9995%@0.12μm	99.9995%@0.12μm	99.9995%@0.12μm
Downflow velocity	0.32m/s	0.32m/s	0.32m/s	0.32m/s
Inflow velocity	0.53m/s	0.53m/s	0.53m/s	0.53m/s
Noise	≤62dB (A)	≤62dB (A)	≤65dB (A)	≤65dB (A)
Average illumination	≥1300lx	≥1000lx	≥1000lx	≥900lx
External dimension (W*D*H)	1930*782*2088mm	1630*782*2088mm	1330*782*2088mm	1030*782*2088mm
Work dimension (W*D*H)	1830*630*680mm	1530*630*680mm	1230*630*680mm	930*630*680mm
Vibration	≤5μm	≤5μm	≤5μm	≤5μm
No. of Users	2~3	2	1~2	1

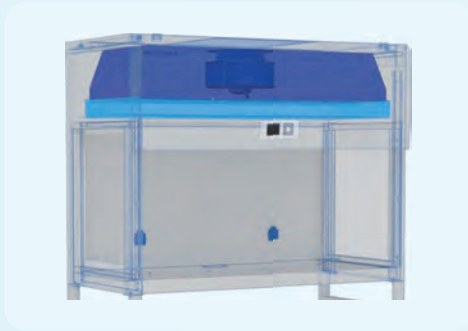
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Megsteman Clean Bench (Vertical Laminar Flow)



Brand high efficiency filters (HEPA)

Filtration efficiency of at least 99.99% for particles with a diameter of 0.3 μm , cleanliness meets ISO Class 4 standards, cleaner and safer;



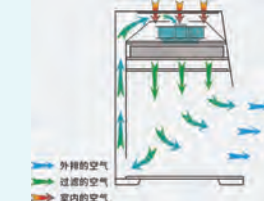
Precise wind speed control

Precise control allows the equipment to quickly switch between multiple wind speeds, precisely matching the different operational requirements of the clean bench; Simple and intuitive operation enables laboratory personnel to quickly get started.

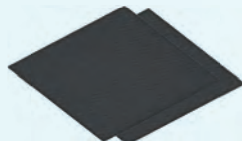


LCD display

Real-time display of wind speed, door status, UV lamp & high-efficiency filter life, temperature, operating time, and other information; UV lamps, lighting lamps, sockets, fans, and other components respond instantly to touch.



- Top air intake, vertical airflow pattern, unique laminar flow technology, reduces turbulence in the work area and ensures uniform airflow distribution, with wind speed maintained between 0.2 and 0.5 m/s



- Pre-filter
The filter on the top intake side can be easily replaced, making maintenance economical and simple.



- 254nm wavelength short-wave UV light for highly efficient sterilization and disinfection
UV lamp, fan, lighting lamp, and sash are interlocked to prevent experimental errors and protect user safety.

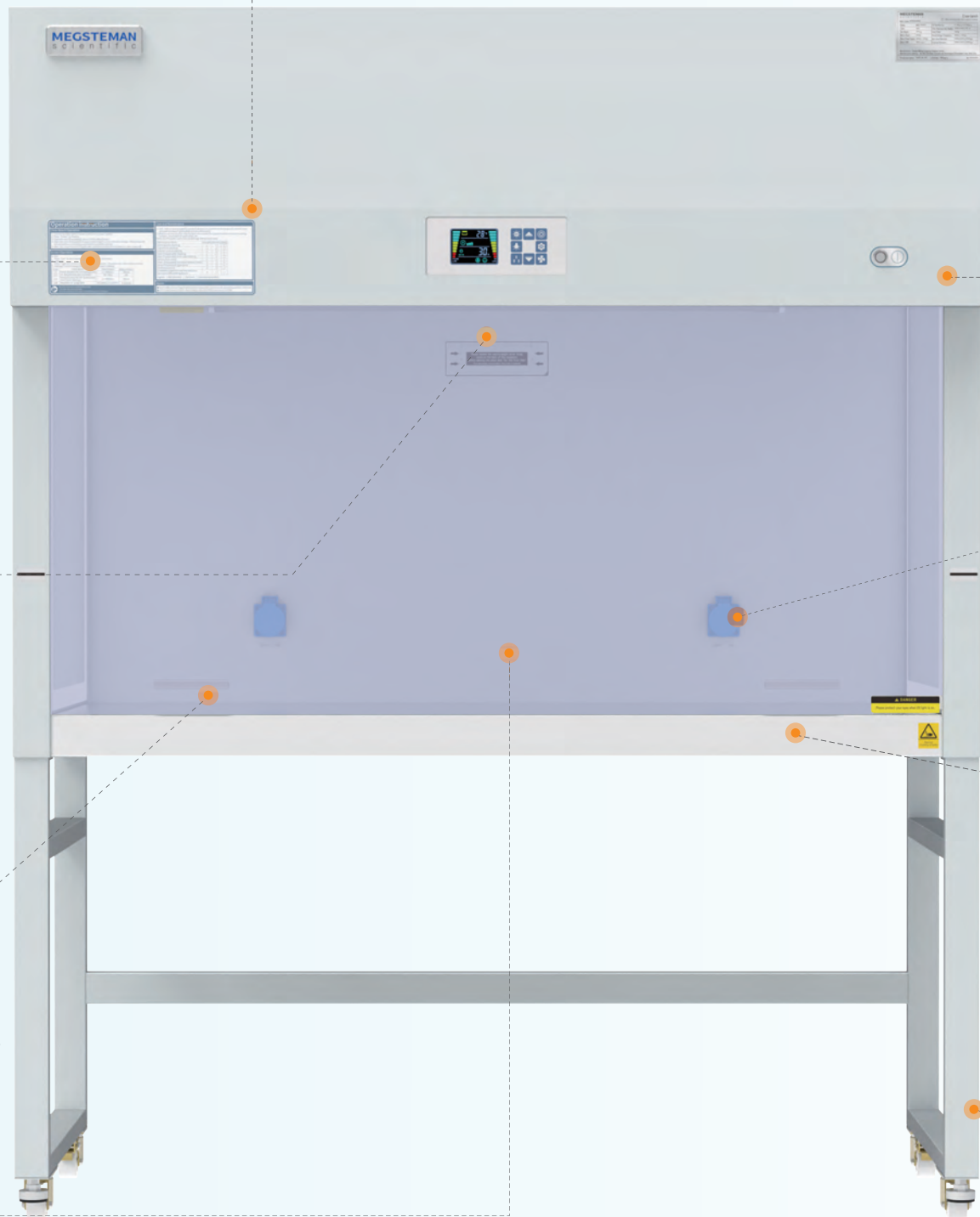


- Pre-clean function for enhanced sample protection;
- High-quality 304 stainless steel work tray for easy cleaning and disinfection.



- Balanced sliding sash with UV-resistant design;
- Cold-rolled electrostatic coating on the outer casing for strong corrosion resistance.

Standard Series



- UV lamp appointment function
One-touch appointment sterilization + UV lamp timer shut-off function for more convenient use.



- The design is simple and elegant, harmonious and aesthetically pleasing.



- IP54 socket, compatible with various scenarios such as small centrifuges and pipetting workstations placed inside the chamber, Independent switch control ensures electrical safety.



- Ergonomic design for easier operation:
- The user-friendly countertop height is suitable for both standing and sitting operation.



- Split base frame and cabinet body
The base frame and cabinet body are split, equipped with universal casters and adjustable height feet for easy installation and movement.

Scope of Application

Professional local air purification device, suitable for pharmaceuticals, university research laboratories, optoelectronic/microelectronics manufacturing, and other fields.

Scope of Application

Model	External Dimension (W*D*H mm)	Workbench Dimension (W*D*H mm)	Airflow Pattern	Cleanliness	Illumination (lx)	Noise dB(A)	Vibration (μm)	Input Power (W)	No. of Operators
CB-900V	1020*697*1773	900*600*650	Vertical flow	ISO 4	≥300	<65	≤2	150	1
CB-1300V	1420*697*1773	1300*600*650	Vertical flow	ISO 4	≥300	<65	≤2	170	1~2
CB-1600V	1720*697*1773	1600*600*650	Vertical flow	ISO 4	≥300	<65	≤2	300	1~2

Air Cleanliness Standard ISO 14644-1 Clean Air Particle Limit (Per/m³)

Particle Size (μm)	Class 1	Class2	Class3	Class4	Class 5	Class 6
0.1	10	100	1000	10000	100000	1000000
0.2	2	24	237	2370	23700	237000
0.3	-	10	102	1020	10200	102000
0.5	-	4	35	352	3520	35200
1.0	-	-	8	83	832	8320
5.0	-	-	-	-	29	293

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Comprehensive Product Map

-86℃ Frequency Conversion Dual System ULT Freezer



-86℃ Dual System ULT Freezer



-86℃ ULT Freezer



Undercounter ULT Freezer



-40℃ ULT Freezer



-40℃ Forced Air Circulation Freezer



DW-FL628F

-30℃ Biomedical Freezer



DW-XL90



DW-XL668

-25℃ Biomedical Freezer



2~8/-10~-26/-40℃ Combined Refrigerator and Freezer



4℃ Blood Bank Refrigerator



2~8℃ Pharmacy Refrigerator



2~8℃ Ice Lined Refrigerator



YC-125EW

2~8℃ Solar Direct Drive Refrigerator



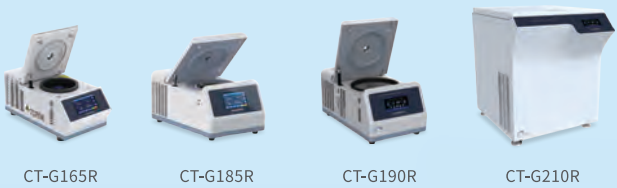
TC-125WSDD

-150℃ Cryogenic Freezer



DW-UW128C

High-speed Centrifuge



CT-G165R

CT-G185R

CT-G190R

CT-G210R

High and Low Speed Centrifuge



CT-Q175R

Low-speed Centrifuge



CT-D60

CL-D60R

Biosafety Cabinet



Liquid Nitrogen Tank



MYDD-350

MYDD-450

MYDD-550

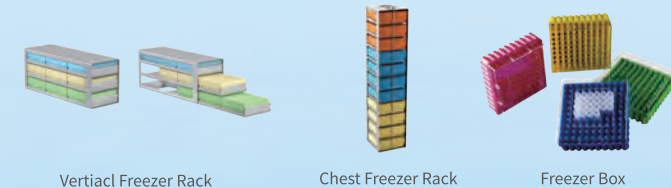
MYDD-750

MYDD-850

MYDD-1000

MYDS-65/95/115/145/175-216-FS

Consumable



Vertiac Freezer Rack

Chest Freezer Rack

Freezer Box

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