

-40°C Ultra-low Temperature Freezer

Compressor Supplied by a Famous International Brand

One-key Fast Cooling



DW-FW150

Refrigeration System

- The Freon-free refrigerant, compressor supplied by an international famous brand and EBM fan can guarantee fast cooling and are energy-saving and environmentally friendly;
- The CFC-free Polyurethane foaming technology can ensure great thermal insulation performance.

Temperature Control System

The high-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

People-oriented Design

- The high-quality steel plate structure, corrosion-resistant phosphate coating and stainless steel liner are low temperature tolerant and corrosion-resistant.;
- The low noise design can create a comfortable work environment.





Temperature Control System

- High precision microcomputer temperature control, more accurate;
- Chamber temperature can be set within a range from -20 to -40°C;
- High-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.



Refrigeration System

- HCFC-free refrigerant, compressor supplied by Secop (previously Danfoss) and EBM fan can guarantee fast cooling and are energy-saving and environmentally friendly;
- CFC free polyurethane foaming technology, perfect insulation performance. Hot gas surrounding line to prevent from condensation.



Security System

- The start delay and stopping interval protection function can ensure reliable operation;
- The well-developed security system with multiple audible & visual alarm function: sensor failure alarm, high & low temperature alarm, power failure alarm, low battery alarm, door open alarm and condenser overheated alarm to ensure the safety sample storage;
- Door with key lock to prevent opening without permission.
- 72 hours back-up battery for display and alarms system during power failure for supportive safety notification.



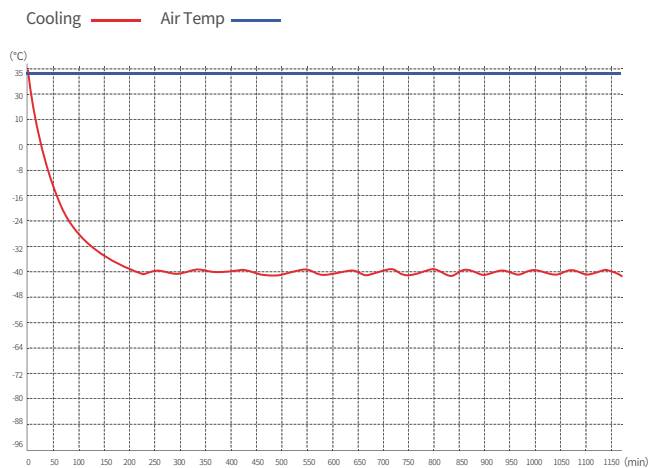
Human-oriented

- The design of upward door opening and the alancing door hinge facilitate door opening;
- High quality phosphate steel structural coating, stainless steel lining and easy cleaning, low noise design, 4 universal casters for easy movement, equipped with door locks to ensure sample safety.

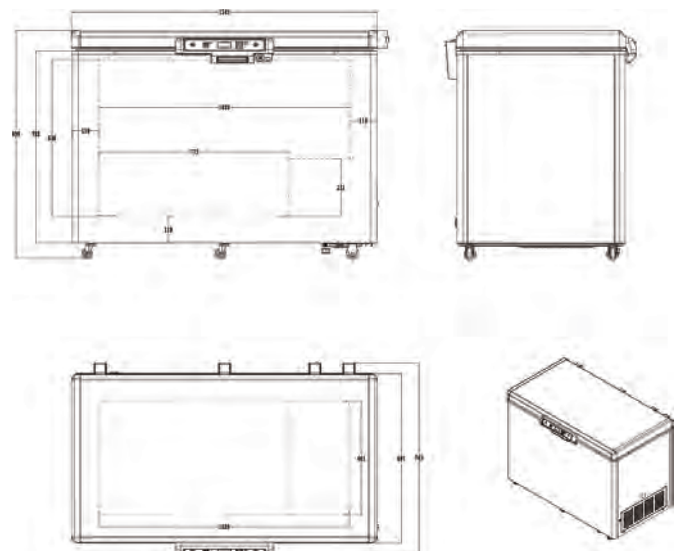
Scope of Application

Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

Performance Data / Cooling Curve



External Dimensions



Specification Chart

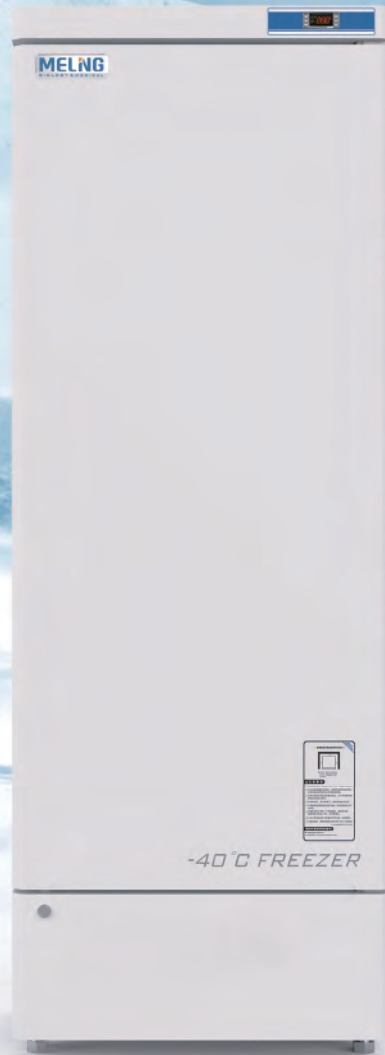
-40°C Ultra-low Temperature Freezer	
Model	DW-FW270
Cabinet Type	Chest
Capacity(L)	270
Internal Size(W*D*H)mm	1019*465*651
External Size(W*D*H)mm	1245*775*929
Package Size(W*D*H)mm	1332*810*975
NW/GW(Kgs)	77/85
Performance	
Temperature Range	-20~-40°C
Ambient Temperature	16-32°C
Cooling Performance	-40°C
Climate Class	N
Controller	Microprocessor
Display	LED
Refrigeration	
Compressor	1pc
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	R290
Insulation Thickness(mm)	110
Construction	
External Material	Spray cold rolled steel plate
Inner Material	Stainless steel
Coated Hanging Basket	1
Door Lock with Key	Yes
Foaming Lid	Optional
Access Port	1pcs. Ø 25mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minute / 2 years
Door with Heater	Hot gas heating
Alarm	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure
System	Sensor error
Electrical	
Power Supply(V/HZ)	220/50
Rated Power(W)	250
Input Power(W)	315
Power Consumption(KWh/24h)	3.1
Rated Current(A)	1.44

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-40°C Ultra-low Temperature Freezer

*Compressor Supplied by a Famous International Brand
Fast Cooling*



DW - FL270

Refrigeration System

The Freon-free refrigerant, compressor supplied by an international famous brand and EBM fan can guarantee fast cooling and are energy-saving and environmentally friendly.

Temperature Control System

The high-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

Human-oriented

The high-precision computerized temperature control system ensures an adjustable temperature within a range from -20 to -40°C inside the cabinet.



High-precision Temperature Control System

- The system has the function of digital temperature display and temperature inside the cabinet can be set within a range from -20°C to -40°C;
- High-precision microcomputer temperature control system; The platinum resistor temperature sensors ensure more precise temperature control.



Refrigeration System

- The compressor supplied by an international famous brand and EBM fan are energy saving and environmentally friendly;
- The refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability.



Structure Design

- Upright type, aluminum plate with spraying material interior, Outer body is painted steel board.
- Inside drawers made of ABS, 7 drawers.



Thermal Insulation System

- The two-layer thermal insulating foamed door can prevent loss of refrigerating capacity in an effective way;
- The cabinet is made from CFC-free polyurethane material, which can improve its heat insulating performance to a large extent.



Security System

- The well-developed audible & visual alarm system makes it safer for storage;
- Equipped with alarm functions including high/low temperature alarm, sensor error.;
- Specially equipped with external door handle and padlock to prevent unauthorized opening.



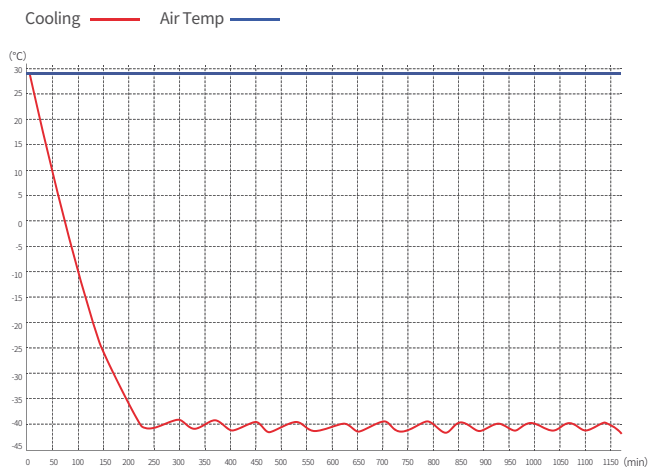
Human-oriented

The safety lock on the door, with door handle, 4 units Caster provided for easy handling.

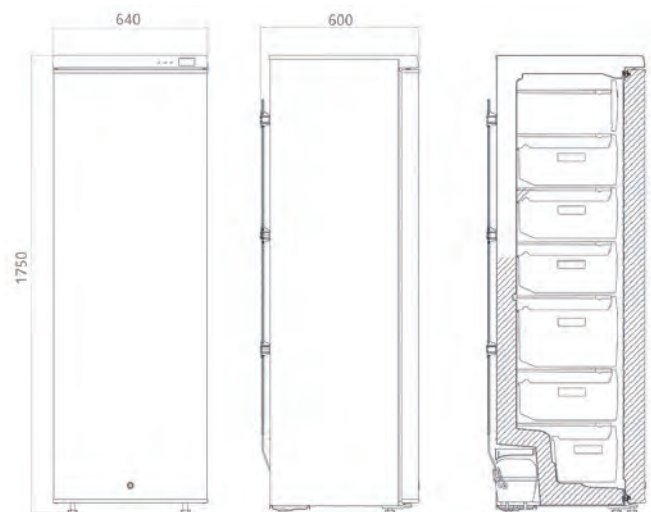
✓ Scope of Application

Suitable for use in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, vaccines, biological products and military products, etc. Suitable for use in research institutions, the electronic industry, the chemical industry, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

🔗 Performance Data / Cooling Curve



📏 External Dimensions



Specification Chart

-40°C Ultra-low Temperature Freezer	
Model	DW-FL270
Cabinet Type	Upright
Capacity(L)	270
Internal Size(W*D*H)mm	500*460*1235
External Size(W*D*H)mm	700*640*1792
Package Size(W*D*H)mm	760*700*1885
NW/GW(Kgs)	90/102
Performance	
Temperature Range	-20~-40°C
Ambient Temperature	16-32°C
Cooling Performance	-40°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	1
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	R290
Insulation Thickness(mm)	100
Construction	
External Material	Powder coated material
Inner Material	Aluminum plate with spraying
Shelves	7(ABS)
Door Lock with Key	Yes
Access Port	1pc. Ø 25 mm
Casters	2+(2 leveling feet)
Alarm	
Temperature	High/low temperature
System	Sensor error
Construction	Door ajar
Electrical	
Power Supply(V/HZ)	220-240~/50
Rated Power(W)	255
Input Power(W)	400
Power Consumption(KWh/24h)	2.86
Rated Current(A)	2.8

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-40°C Ultra-low Temperature Freezer

Strong Cooling · Precision Constant Temperature



DW-FL439

Refrigeration System

Fluorine-free refrigerant, international brand compressor, EBM fan, ensuring fast cooling and energy saving

Temperature Control System

High-precision microcomputer temperature control system with build-in control/alarm sensors for High/low temperature, ambient temperature and evaporator temperature etc. ensuring the safe and stable running.

Energy Saving and Environmental Protection

Equipped with DC/DC power management module which greatly improved the energy-saving efficiency; high precision voltage control ensures the stable performance for the whole machine. Less redundant heat to eliminate the overheating safety hazard.

Humanized Design

- High-quality steel plate structure, anti-corrosion phosphating spray, ABS drawers
- Low noise design, creating a comfortable working environment



High-precision Temperature Control

- High-precision microcomputer temperature control system with build-in control/alarm sensors for High/low temperature, ambient temperature and evaporator temperature etc. ensuring the safe and stable running.
- 1 inch high brightness digital temperature display with 0.1°C display precision; the temperature can be set freely within the range of -20°C~40°C.



Refrigeration System

Equipped with SECOP high-efficiency compressor and international EBM fan, ensuring energy saving and silent running.



Alarm system

- Perfect audible and visual alarm system makes it safer for storage. Equipped with alarm functions including high/low temperature alarm, sensor error.
- Specially equipped with external door handle and padlock to prevent unauthorized opening



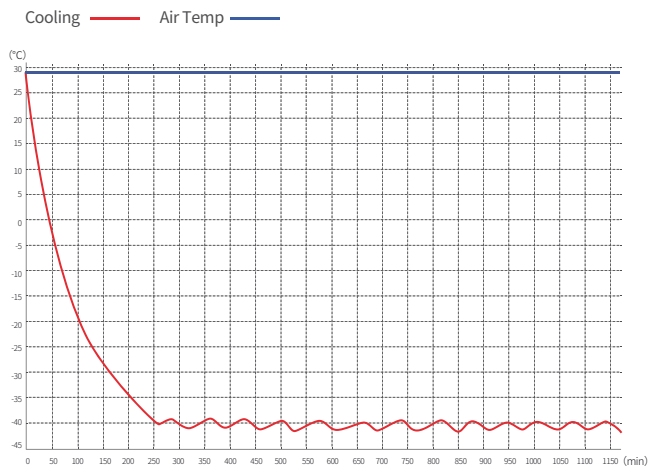
Human-oriented

- The interior is equipped with 7 layers of 14 ABS drawers, 2 for each layer, which is convenient for object storage
- Standard 485 port, remote alarm port
- 2 leveling feet located at the front bottom, 4 castors for the front and back

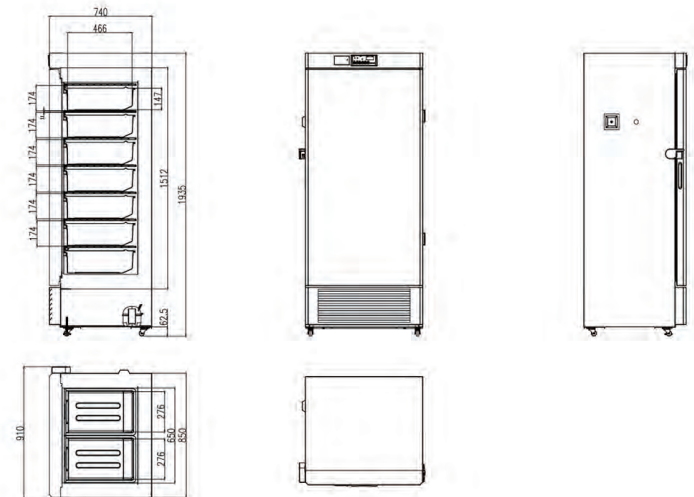
✓ Scope of Application

Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

🔗 Performance Data / Cooling Curve



📐 Eternal Dimension



Specification Chart

-40°C Ultra-low Temperature Freezer	
Model	DW-FL439
Cabinet Type	Upright
Capacity(L)	439
Internal Size(W*D*H)mm	650*560*1305
External Size(W*D*H)mm	910*755*1945
Package Size(W*D*H)mm	990*855*2070
NW/GW(Kgs)	175/200
Performance	
Temperature Range	-20~-40°C
Ambient Temperature	16-32°C
Cooling Performance	-40°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	1pc
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	R507
Insulation Thickness(mm)	100
Construction	
External Material	Carbon steel spraying
Inner Material	Stainless steel
Drawer	14(ABS)
Door Lock with Key	Yes
External Lock	Yes
Access Port	1pc. Ø 25 mm
Casters	4(2 caster with brake)
Data Logging/Interval/Recording Time	USB/Record every 10 minute / 2 years
Backup Battery	Yes
Alarm	
Temperature	High/Low temperature,High ambient temperature
Electrical	Power failure,Low battery
System	Sensor error, USB datalog failure,Main board communication error, Communication failure,Door ajar
Electrical	
Power Supply(V/HZ)	220-240~/50
Rated Power(W)	440
Input Power(W)	605
Power Consumption(KWh/24h)Rated	4.68
Current(A)	3.7
Accessory	
System	Printer,RS485

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