

-86°C Ultra-low Temperature Freezer

*Targeted Refrigeration • Fast Refrigeration
Energy-saving & Environmentally Friendly
Awarded with the Second Prize under State
Technological Invention Award*



DW-HW50HC



Precise Temperature Control and Safe Storage

Microprocessor-based temperature controller, -40°C~-86°C can be set freely with display accuracy at 0.1°C.



Visual & Audio Alarm system

High/low temperature alarm, power failure alarm, low battery alarm, high ambient temperature alarm, communication failure alarm etc.



Refrigeration System

Applied Secop (Danfoss) compressor, 1 unit to reduce noise and improve the cooling temperature come to -86°C stably.



Fan electromotor with internationally famous of Germany EBM,energy saving, high efficiency, and quiet.

Energy Saving

Equipped with DC/DC power management module,optimized energy saving;
High-precision voltage control, stabilizing the voltage and freezer performance;
Reduce the redundancy heat, completely eradicate overheating risk.



High-precision Temperature Control

- Digital temperature display; display inner temperature, power and voltage, ambient temperature and more at the same time;
- 2 inches high-brightness digital temperature display, microprocessor-based temperature controller, -40°C~-86°C can be set freely.



Refrigeration System

Applied with Secop (Danfoss) compressor, single compressor system with target mixture refrigerant to reduce noise and improve the cooling temperature come to -86°C stably and effectively.



Insulation System

- The thickness of outer door insulation layer is equal to or greater than 90mm;
- The thickness of insulation layer in refrigerator body is equal to or greater than 110mm;
- Perfectly lock air conditioning, effectively prevent the loss of cooling capacity.



Alarm system

- The perfect audible & visual alarm system: High/low temperature, sensor failure, power failure, low battery, high ambient temperature, communication failure etc;
- Startup delay and stop interval protection function to ensure reliable operation;
- Keyboard lock and password protection function to prevent arbitrary adjustment of operating parameters;
- Safety door lock design, ensure safety sample storage.



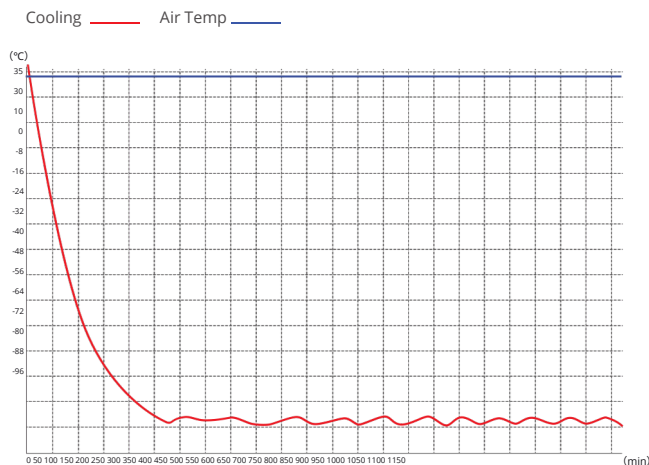
Human-oriented

- The inner liner is made of stainless steel, resistant to corrosion and easy to clean;
- 4 Universal casters for easy handling;
- Front opening lockable door with full height handle, with vacuum release port for easy open during cooling operation;
- Two-times foaming technology. 110mm foaming insulation with VIP board for better temperature performance.

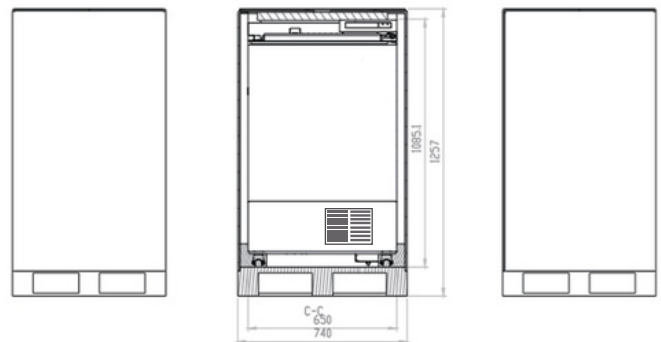
✓ Scope of Application

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 Dimension



-86°C Ultra-low Temperature Freezer	
Model	DW-HW50HC
Cabinet Type	Chest
Capacity(L)	50
Internal Size(W*D*H)mm	430*305*425
External Size(W*D*H)mm	650*606*1080
Package Size(W*D*H)mm	788*720*1283
NW/GW(Kgs)	74/120
Performance	-40~-86°C 16-
Temperature Range	32 °C -86 °C N
Ambient Temperature	Microprocesso
Cooling Performance	r Digital display
Climate Class	
Controller	
Display	
Refrigeration	
Compressor	1pc
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	HC
Insulation Thickness(mm)	110
Construction	High quality steel plates with spraying
External Material	Stainless steel
Inner Material	Yes
Door Lock with Key	Optional
Padlock	1pc. Ø 25 mm
Access Port	4
Casters	USB/Record every 10 minutes / 2 years
Data Logging/Interval/Recording Time	Yes
Backup Battery	High/Low temperature,High ambient temperature
Alarm	Power failure,Low battery
Temperature	Sensor failure, Condenser overheating alarm,Built-in USB datalogger
Electrical	failure, Communication error
System	
Electrical	
Power Supply(V/HZ)	
Rated Current(A)	220-240~/50
Power(W)	5.48
Power Consumption(KWh/24h)	682
	8.33
Accessories	RS485,Remote alarm contact
Standard	Chart recorder, CO backup system,Printer
Options	

*The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

*There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.