

-86°C Ultra-low Temperature Freezer			
Product Name			
Model	DW-HL398/SA	DW-HL528/SA	DW-HL678/SA
Cabinet Type	Upright	Upright	Upright
Capacity(L)	398	528	678
Internal Size(W*D*H)mm	440*696*1266	585*696*1266	750*696*1286
External Size(W*D*H)mm	785*1041*1947	930*1041*1947	1090*1025*1965
Package Size(W*D*H)mm	890*1165*2158	1035*1165*2158	1203*1155*2171
NW/GW(Kgs)	237/314	286/357	330/413
Temperature Range	-40~-86°C		
Ambient Temperature	16~32°C		
Cooling Performance	-86°C		
Display	HD Intelligent Touch screen		
Compressor	1pc	1pc	2pcs
Cooling Method	Direct Cooling		
Defrost Mode	Manual		
Refrigerant	Mixture gas		
Insulation Thickness(mm)	130		
External Material	Cold rolled steel sheet		
Inner Material	Galvanized steel sheet/Stainless steel		
Shelves	3(stainless steel)		
Door Lock with Key	Yes		
External Lock	Yes		
Access Port	2pcs. Ø 25 mm	2pcs. Ø 25 mm	3pcs. Ø 25 mm
Casters	4+(2 leveling feet)		
Data Logging/Interval/Recording Time	USB/Record every 5 minutes/ 10 years		
Alarm	9		
Power Supply(V/HZ)	230V~/50Hz		
Standard Accessory	Remote alarm contact, RS485		
Options Accessory	Chart recorder, CO2 backup system		

-86°C Ultra-low Temperature Freezer			
Product Name			
Model	DW-HL778/SA	DW-HL858/SA	DW-HL1008/SA
Cabinet Type	Upright	Upright	Upright
Capacity(L)	778	858	1008
Internal Size(W*D*H)mm	865*696*1286	877*696*1378	1022*696*1378
External Size(W*D*H)mm	1205*1025*1955	1217*1025*1994	1362*1025*1994
Package Size(W*D*H)mm	1320*1155*2171	1330*1155*2176	1473*1155*2176
NW/GW(Kgs)	365/455	390/431	426/550
Temperature Range	-40~-86°C		
Ambient Temperature	16~32°C		
Cooling Performance	-86°C		
Display	HD Intelligent Touch screen		
Compressor	2pcs	2pcs	2pcs
Cooling Method	Direct Cooling		
Defrost Mode	Manual		
Refrigerant	Mixture gas		
Insulation Thickness(mm)	130		
External Material	Cold rolled steel sheet		
Inner Material	Galvanized steel sheet/Stainless steel		
Shelves	3(stainless steel)		
Door Lock with Key	Yes		
External Lock	Yes		
Access Port	3pcs. Ø 25 mm		
Casters	4+(2 leveling feet)		
Data Logging/Interval/Recording Time	USB/Record every 5 minutes / 10 years		
Alarm	9		
Power Supply(V/HZ)	230V~/50Hz		
Standard Accessory	Remote alarm contact, RS485		
Options Accessory	Chart recorder, CO2 backup system		



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## -86°C ULTRA LOW FREEZER

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|-------------|-------------|--------------|
| DW-HL398/SA | DW-HL528/SA | DW-HL678/SA  |
| DW-HL778/SA | DW-HL858/SA | DW-HL1008/SA |

\*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.

# -86°C Ultra-low Temperature Freezer



DW-HL1008/SA



DW-HL858/SA



DW-HL778/SA



DW-HL678/SA



DW-HL528/SA



DW-HL398/SA

## Product Advantage

**User-friendly-Ergonomic Design**  
Ergonomic door handle located at waist level is needed to open and close the freezer door, meanwhile equipped with vacuum vent with plunger to gain immediate access to your freezer.

**VIP Vacuum insulation panels**  
Vacuum insulation panels allow for increased internal capacity with the same footprint as traditionally foamed freezers as well as it ensures excellent temperature stability.

**Multiple separate compartments**  
Inner doors are gasketed as well as insulated creating 4 separate compartments minimizing cold loss while you access your samples.

**Access port**  
φ 25mm access port, convenient to monitor /test/ back-up device.

**CFC-free Refrigerant CFC-free**  
CE certification  
A Class IIa Medical Device; DW-HL398SA - DW-HL1008SA.

## Product Details



**Microprocessor controller with 7" HD Intelligent Touch Screen**  
· Microprocessor controller with 7" HD intelligent touch screen standard with back up battery and RS485, optional for fingerprint and swipe card access system.



**Multiple audible and visible alarm system**  
· Audible and visible alarm system, multiple alarms including high temperature alarm, low temperature alarm, power failure alarm, low battery alarm, sensor error, door ajar alarm, high ambient temperature alarm, communication failure alarm, battery power detection failure alarm and condenser overheating alarm etc.



**Excellent temperature uniform**  
· Forced air cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber.



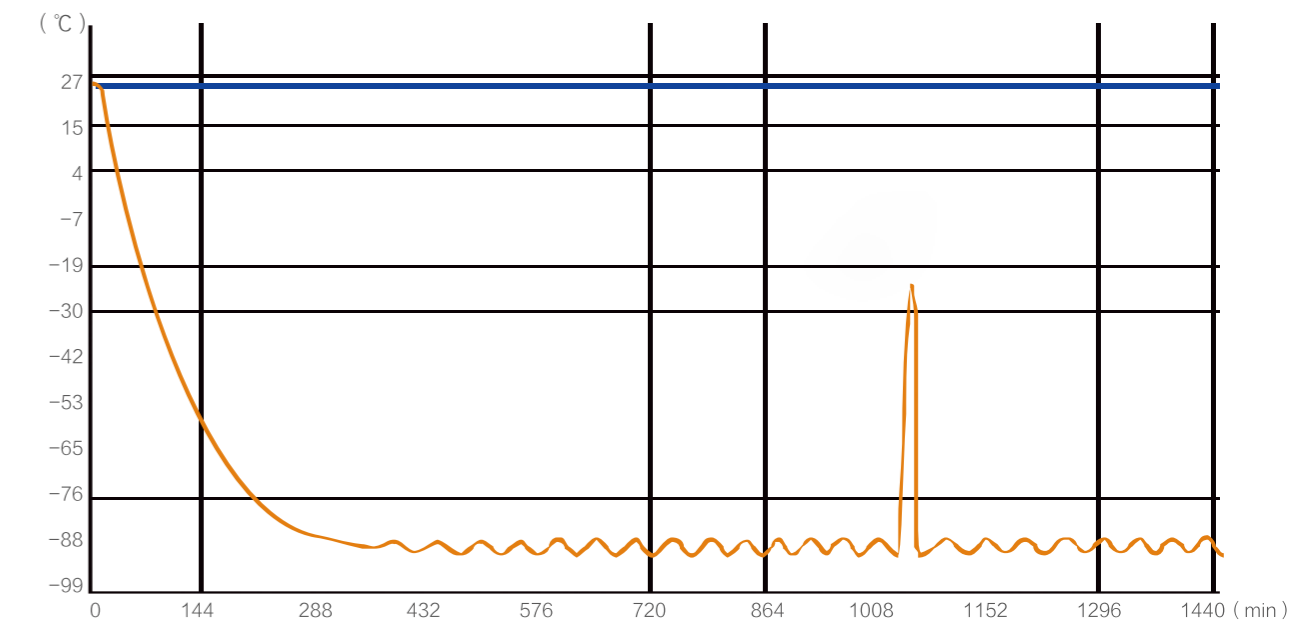
**Trusted SECOP brand compressor**  
· German famous brand compressor - SECOP maintain a reliable -86°C ultra low temperature environment, that increases efficient sample storage.



**Extra Security for Sample**  
· Optional built-in CO2 backup system for extra security for your valuable samples.

## Performance Data / Cooling Curve

DW-HL778SA   Ambient temp: 25 °C   Set temp: -81 °C   No load



Cooling 280 minutes down to -81 °C,  
Temperature recovery to -76 °C in 23mins after door opened for 1 min