

**Ultra Low Temperature Deep Freezer** 



## TI- HL- 858





### **Targeted Refrigeration**

The new generation of ultra-low temperature refrigeration system can ensure fast refrigeration.

### **Five Magic Weapons for Energy Saving**

Imported high-efficiency compressor + separated evaporator + composite heat exchanger +

optimized fractional condensation & separation system + high-efficiency thermal insulation

system can save energy and reduce power consumption of the freezer by 40%.

### Low Noise Design

Low-noise direct cooling circuit + suspension frame & sound absorbing compartment & low-noise fan can reduce noise generated by the entire freezer to the largest extent

## **Three-dimensional Thermal Insulation**

The six sides of the cabinet are made from high-efficiency VIP vacuum thermal insulation plate, and the thermal insulation design of the inner door made from foaming material and the outer door system was awarded with multiple patents, which can improve the thermal insulation performance of the freezer.

## Optional Accessory(WiFi/Bluetooth printer/Mechanical lock/Swipe card/Fingerprint)

Connect WiFi to upload data to the cloud space, monitor the device, check the status of the refrigerator faster, and ensure the safety of the samples.

Optional Bluetooth printer, real-time export temperature data, temperature graph, setting operation and other data, to

understand the freezer operating status.

Optional functions such as card unlocking, fingerprint unlocking, and facial recognition unlocking are available to facilitate quick access to samples.

# Scope of Application

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





#### 7" HD Intelligent Screen Control System

 $7^{\prime\prime}$  HD intelligent display touch screen, user-friendly interface and more accurate temperature connections, more convenient operation and more comprehensive functions  $\ \ ;$ 

Can add multiple user accounts to log in and record usage/operation records;

• The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from - 40 to -86°C:

• Optional functions such as card unlocking, fingerprint unlocking, and facial recognition unlocking are available to facilitate quick access to samples.



#### Security System

• The perfect audible & visual alarm system : high and low temperature *s*ensor failure *,*power failure *,*low battery *,*door ajar *,*main board communication error, high ambient temperature etc;

• Equipped with alarm self-recovery function, it reminds users of unhandled alarm problems in freezer many times ;

· The compressor start delay and stopping

interval protection can ensure reliable operation; · Both the touch screen controller and key-board controller have password protection which can prevent any adjustment of operation without permission;



#### Refrigeration System

• The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient; • The large finned condenser with a space between

fins≤2mm, providing effective heat dissipation; .DW-HL858 with twin- compressor, if one is damaged, the other one

could keep the temperat ure at -70°C stably; • Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost.





Supplies for Cryopreservation Freezer racks/boxes for cryopreservation are optional.

#### Remote alarm contact, RS485

Equipped with R5485 and remote alarm interface to realize remote observation of freezer operation status, real-time reception of product operation information, and ensure the storage safety of samples.



#### Data Storage

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The temperature data recorded by the system can be exported, the operating data of the system settings, the alarm data, and the temperature data can be recorded in 2 minutes, and the data can be recorded for up to 10 years, which can effectively record the running status of the product for you for a long time.



#### **Thermal Insulation System**

-2-layer heat insulating foarmed door with inner and outer door seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way.

The 6 sides of the cabinet are made from highperformance VIP vacuum insulation material, improving thermal insulation performance to a large extent.



### Human-oriented

The new designed assisting handle and vacuum release port let the freezer be operated single-handed to open and close the outer door ;

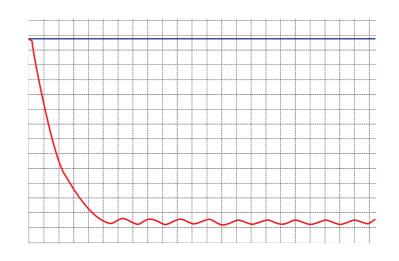
The newly added file box makes recording easier and more convenient ;

The liner made from Galvanized steel sheet/
Stainless steel for medical use is low-temperature
tolerant and corrosion-resistant, which has a long
service life and is easy to clean:

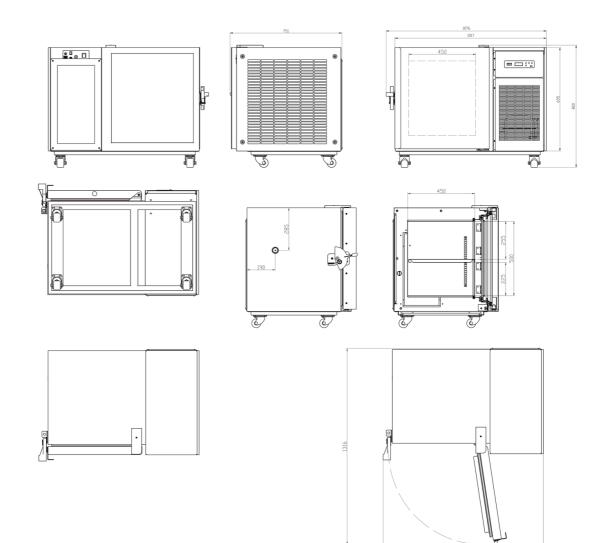
service life and is easy to clean; The universal casters and leveling feet design are more convenient for movement and fixation.



# Performance Data / Cooling Curve



# External Dimension





1076

## Specifications

-86°C Ultra-low Temperature Freezer	
Model	TI- HL- 858
Cabinet Type	Upright
Capacity(L)	778
Internal Size(W*D*H)mm	865*696*1286
External Size(W*D*H)mm	1205*1025*1955
Package Size(W*D*H)mm	1320*1155*2171
NW/GW(Kgs)	365/455
Performance	
Temperature Range	-40~-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86°C
Climate class	Ν
Controller	Microprocessor
Display	HD Intelligent Touch Screen
Refrigeration	
Compressor	2pcs
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	HC
Insulation Thickness(mm)	130
Construction	
External Material	Cold rolled steel sheet
Inner Material	Stainless steel
Shelves	3(stainless steel)
Door Lock with Key	Yes
Padlock	Yes
Access Port	3pcs. Ø 25 mm
Casters	4+(2 leveling feet)
Data Logging/Interval/Recording TIme	USB/Record every 5 minutes / 10 years
Backup Battery	Yes
Alarm	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure,Low battery
System	Sensor failure, Main board communication error, Condenser overheating alarm, Door ajar
Electrical	
Power Supply(V/HZ)	220-240~/50
Rated Current(A)	10.56
	1000
Accessories	Demote allow content DC405
Standard	Remote alarm contact, RS485
Options	Chart recorder, CO <sub>2</sub> backup system



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