



### **DW-86L828ST**

# **TwinCool Frequency Conversion ULT** Freezer

## Scope of Application:

Suitable for the storage of biological samples such as viruses, blood cells, bacteria and tissue. as well as electronics and other special materials. The freezer combines frequency conversion compressors, hydrocarbon refrigerants (HC) and dual refrigeration system technology to deliver optimal sample security, energy-efficiency, and sustainability. The product is used within hospitals, disease control, life science and medical research, bioengineering, pharma and other enterprize laboratories.

## **Innovative** Design

- Energy saving and environmentally friendly
- HC refrigerant
- Intelligent control
- Combines frequency conversion technology with dual refrigeration
- Superior insulation performance

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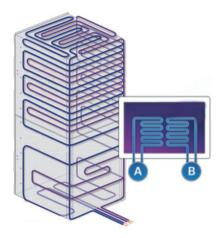








Product Advantages 〈







## Dual refrigeration system, double safety and optimal reliability

Double independent hydrocarbon refrigeration system design, each system can maintain -80°C ensuring the safety of stored samples



#### **Environmental Protection**

Environmentally friendly hydrocarbon refrigerant and foam material LBA





#### Low Noise Design

Optimised systems and noise-reducing cabinet design lower noise out to 53dB for a quieter working experience



#### Large loading capacity

Maximum Capacity: 600 boxes (2 inch boxes with 10\*10 configuration) 60,000 samples can be stored



#### Word-leading Energy Saving Refrigeration Technology

Intelligent frequency conversion technology and HC refrigeration system delivers a 50% reduction in energy usage when compared to traditional HFC refrigeration systems



#### **Optional IoT System**

The optional IoT monitors the operating status of the equipment in real time. Equipped with multiple alarm functions and a self-diagnostics system to identify and warns users to ensure sample safety



## Adjustable Sample Loading Tray (Optional)

The adjustable height sample load tray provides users with a convenient place to hold samples while opening and accessing storagecompartments



#### Intelligent Control

10.1-inch high-performance touch screen, sensitive touch operation. Users can check the real-time operating status via IoT

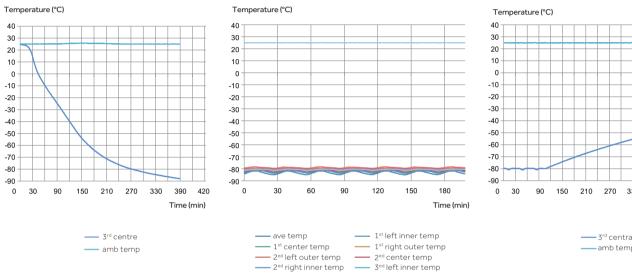




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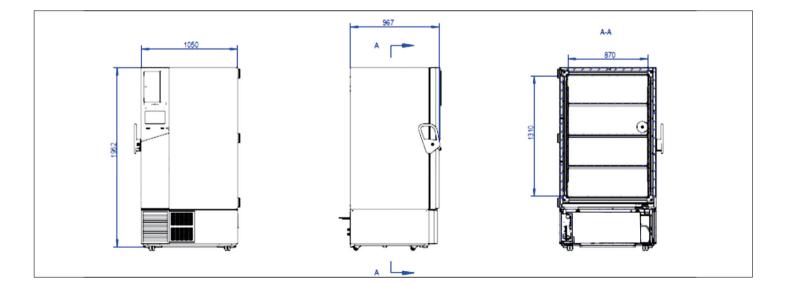


#### Temperature Cool Down Curve



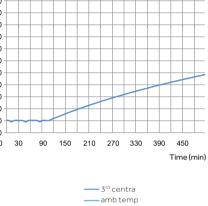
- 3<sup>rd</sup> center temp

**Product Dimensions** 



Stability Curve

**Temperature Recovery Curve** 





|                    | Model   |     | DW-86L828ST    |
|--------------------|---|-----|----------------|
|                    |   |     |                |
| Technical<br>Data  | Cabinet Type                                    |     | Upright        |
|                    | Climate Class                                   |     | N              |
|                    | Cooling Type                                    |     | Direct cooling |
|                    | Defrost Mode                                    |     | Manual         |
|                    | Refrigerant                                     |     | HC             |
|                    | Sound Level (dB(A))                             |     | 53             |
| Performance        | Cooling Performance (°C)                        |     | -86            |
|                    | Temperature Range (°C)                          |     | -40~-86        |
| Control            | Controller                                      |     | Microprocessor |
|                    | Display   |     | LCD            |
| Electrical<br>Data | Power Supply (V/Hz)                             |     | 220~240/50/60  |
|                    | Power (W)                                       |     | 1400           |
|                    | Electrical Current (A)                          |     | 6.5            |
| Dimensions         | Capacity (L/Cu.Ft)                              |     | 828/29.2       |
|                    |   | kg  | 380/410        |
|                    | Net/Gross Weight                                | lbs | 837.7/914.9    |
|                    | Interior Dimensions (W*D*H)                     | mm  | 870*716*1310   |
|                    |   | in  | 34.3*28.2*51.6 |
|                    | Exterior Dimensions (W*D*H)                     | mm  | 1145*998*1980  |
|                    |   | in  | 45.1*39.3*78.0 |
|                    | Packing Dimensions (W*D*H)                      | mm  | 1190*1045*2150 |
|                    |   | in  | 46.9*41.1*84.6 |
|                    | Cabinet Width (without handle and hinge)        | mm  | 1050           |
|                    | Container Load (20'/40'/40'H)                   |     | 8/20/20        |
| Functions          | High/Low Temperature                            |     | Y              |
|                    | Hot Condenser                                   |     | Y              |
|                    | Power Failure                                   |     | Y              |
|                    | High/Low Voltage                                |     | Y              |
|                    | Sensor Error                                    |     | Ŷ              |
|                    | Low Battery                                     |     | Y              |
|                    | High Ambient Temperature                        |     | Y              |
|                    | Door Ajar                                       |     | Y              |
|                    | Caster  |     | Y              |
|                    |   |     | Y              |
|                    | Foot  |     | Y/2            |
|                    | Porthole<br>Shelves/ Inner Doors                |     | 3/4            |
|                    |   |     | Y              |
|                    | USB Interface                                   |     | Y              |
|                    | Remote Alarm                                    |     | Y              |
|                    | 5V Power Supply Port                            |     |                |
|                    | Temperature Chart Recorder RS232/485 Port       |     | Optional       |
|                    |   |     | NA/Standard    |
|                    | NFC   |     | Optional       |
|                    | Fingerprint                                     |     | Optional       |
|                    |   |     | Optional       |
|                    | CO <sub>2</sub> Backup System                   |     | Optional       |
|                    | LN2 Backup System                               |     | Optional       |
|                    | Freezing Rack; DCJ-55-A or DCJ-55-B; (Quantity) |     | 24             |
| Others             | Certification CE                                |     |                |

 ${}^{*}$ Haier Biomedical reserves the right to change products and specifications without prior notice.

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