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*preserving life*

**Ultra Low Temperature Deep Freezer**



## **-40~-86°C Intelligent Touch Screen ULT Vaccine Freezer TI-DF-86-678**

### **Features**

- Intelligent control system.
- For Pfizer COVID-19 vaccine storage.
- The new generation of ultra-low temperature refrigeration system can ensure fast refrigeration and was awarded with the Second Prize under State Technological Invention Award.
- 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 direct cooling circuit + suspension frame & sound absorbing compartment & low-noise fan can reduce noise generated by the entire freezer to the largest extent.



# Overview

## 7" Screen Control System

7-inch Intelligent HD display touch screen, user-friendly interface and more accurate temperature control, with Bluetooth, Wi-Fi and other functions, more convenient operation and more comprehensive functions;

- 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.

## 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  $\leq 2\text{mm}$ , providing effective heat dissipation.

## Security System

- The perfect audible & visual alarm system : high and low temperature ,sensor failure ,power failure ,low battery ,door ajar ,main board communication error high ambient temperature ,built-in datalogger USB failure,samples out of date notification etc;
- 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;

## 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.

## 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 stainless steel 304 for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean;
- ·The universal casters and leveling feet design are more convenient for movement and fixation.

## 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.

## ● Structure



Model	TI-DF-86-678
Cabinet type	Upright
Capacity(L)	678
Internal size(W*D*H)mm	750*696*1286
External size(W*D*H)mm	1090*1025*1955
Package size(W*D*H)mm	1203*1155*2171
NW/GW(Kgs)	330/420(wood packing)
<b>Performance</b>	
Temperature range	-40 ~ -86°C
Ambient temperature	16-32°C
Cooling performance	-86°C
Climate class	N
Controller	Microprocessor
Display	HD intelligent touch screen
<b>Refrigeration</b>	
Compressor	2pcs
Cooling method	Direct cooling
Defrost mode	Manual
Refrigerant	Mixture gas
Insulation thickness(mm)	130

<b>Construction</b>	
External material	Cold rolled steel
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/Memory capacity	USB/Record every 5 minute / 10 years
Backup battery	Yes
<b>Alarm</b>	
Temperature	High/Low temperature,High ambient temperature
Electrical	Power failure,Low battery



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