



**TW-L508**

## ULTRA LOW TEMPERATURE FREEZER

### Introduction

TOP INSTRUMENT Ultra Low Temperature Freezer is a specialized piece of laboratory equipment used for long-term storage of biological samples, such as DNA, RNA, and proteins, at temperatures as low as  $-80^{\circ}\text{C}$  or even lower. It is designed to maintain a stable and uniform temperature throughout the freezer chamber, which helps to prevent sample degradation and maintain sample integrity. It is commonly used in research labs, medical labs, and biobanks for the storage of valuable biological samples.

### Features

- Applications:

It is suitable for scientific research institutions, ultra-low temperature experiments of special materials, electronics industry, chemical industry, military industry, university experiments, biological engineering, pelagic fisheries, etc.

It can be used to preserve viruses, germs, red blood cells, white blood cells, skin, bones, bacteria, semen, biological products, ocean products, low temperature tests of electronic devices, etc.

- Temperature control:

Microcomputer digital control, real-time temperature display, the adjustment unit is  $0.1^{\circ}\text{C}$ .

The temperature inside the box is adjustable, and the temperature difference between start and stop can be set.

The alarm temperature value can be set as required.

- Security system:

It has a complete alarm system, with buzzer sound and light flashing alarm function. It can realize high and low temperature alarm, sensor failure alarm and other functions.

Multiple protection functions (password protection, frequent start-up protection, and the refrigeration system keeps running when the sensor fails.)

- Cooling system:

The extra-thick foam layer and the double-seal design of the door effectively protect the temperature inside the box.

Optimized self-cascade refrigeration system, imported compressors, strong and efficient refrigeration capacity.

Reasonable evaporator design ensures effective flow of refrigerant and good temperature uniformity in the box.

Unique fluorine-free and environmentally friendly mixed refrigerant.

Single compressor system, less components, low failure rate, low energy consump-

tion.

The German EBM silent fan is adopted, with stable and long-lasting performance and low night noise.

- Humanized design:

The built-in adjustable stainless steel shelf can be adjusted as needed, flexible and convenient to use, and easy to clean.

Food grade 304 stainless steel liner, safe and secure.

Universal caster design, easy to move.

Safety door lock condition gauge to prevent random opening.

The air pressure balance design in the box also has the function of a test hole, which is convenient to use.

LED temperature display, easy to observe, clear and intuitive.

Suitable for 10°C ~30°C environment.

Optionally install a digital temperature recorder to record and save performance data under special circumstances, with a USB interface. U disk can be connected for data copy analysis when needed.

Wide voltage band design, suitable for use under 187V~242VAC voltage.

## Technical Parameter

Product number	TW-40L508	TW-60L508	TW-86L508
External dimensions (mm W*D*H)	870*1030*1975	870*1030*1975	870*1030*1975
Internal dimensions (mm W*D*H)	570*710*1255	570*710*1255	570*710*1255
Chamber temperature ( ° C)	-15~-40	-25~-60	-40~-86
Power supply (V/Hz)	220/50	220/50	220/50
Power (W)	800	860	880
Net weight (kg)	250	250	250
Volume (L)	508	508	508