



**T-86V340E**

## ULTRA LOW TEMPERATURE FREEZER

### Introduction

TOP INSTRUMENT Ultra Low Temperature Freezer -40°C ~ -86°C is specially designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes, leucocyte and cutis. Applications can be found in blood-banks, hospitals, epidemic prevention service, and research institutes, laboratories in electronic and chemical plants and biological engineering institutes.

### Features

- The holographic blazed grating monochromator has the advantages of high wavelength accuracy, good monochromaticity, and low stray light.
- 7-inch multi-color touch-screen, good human-computer interface. ( 752N Plus and 722N )
- Linear regression method and coefficient method are added to the concentration test method.
- USB interface is added, and large-capacity memory can store 30 concentration curves.
- Adopt a microcomputer measurement system, with high conversion accuracy of T-A, automatic adjustment of 0% T and 100% T, concentration factor setting and concentration direct reading.
- High accuracy, Good Reproducibility, and Stability of Measurement Readings.
- Automatic light gate technology, No need for a blackbody, to protect the photoelectric sensor.

### Technical Parameter

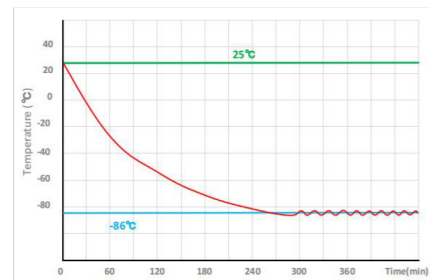
Basic		Refrigeration System	
Cooling method	Direct Cooling	Refrigerant	R4001 ( mixed gas )
Defrost	Manual	Temp. controller	Microprocessor
Temperature range	-40 °C ~ -86 °C	System	Auto-cascade
Ambient temperature	10 ~ 32 °C	Sensor	PT100
Display	LED digital	Compressor brand / QTY	SECOP / 1
Access port QTY / Dia.	1 / 25mm	Capacity ( L / cu ft )	340 / 12
USB Interface	Yes / 1	Insulation	PURF
Remote alarm Access	RS232 / 485	Inner door material / QTY	Foamed SUS304 / 2
Outside material	Color sprayed steel	Racks	12 ( 4 * 4 )
Inside material	SUS304	Boxes ( 2 Inches )	192
Castor	Universal	Samples ( 2ml )	19200

Electrical Data		Dimensions	
Voltage frequency	220V 50HZ / 60HZ	Package size	935*1070*2128mm
Power	810W	Exterior size	854*1006*1907mm
Current	5.13A	Interior size	488*607*1140mm
Power consumption	13.09wh / 24h	Shipping CBM	2.13
Noise	52db	N.W / G.W	268kg / 288kg

**Alarms**

High / low temperature	•	Door ajar	•	Condenser clean	•
Power failure	•	Filter screen check	•	High ambient temperature	•
Abnormal voltage	•	Thermostat failure	•	Door ajar	•
Sensor error	•	Low battery	•	Power failure backup ( alarm )	72h

**Thermal Profile**

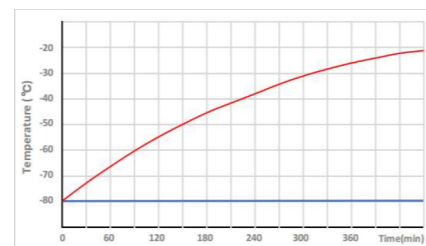


Pull down test at ambient temp.



**Super-cooling technology**

Auto-ascade cooling system is designed with a powerful compressor which drives the unique mixed refrigerant for fast cabinet cooling down. The system is simple in construction, energy saving and easy maintenance.



Pull up test at ambient temp. 25°C



**Advanced thermal insulation**

Advanced insulation materials and interior design of multiple independent spaces make ULTs more efficient in insulation and less heat loss, so as to achieve the purpose of better thermal insulation performance and energy saving.

**Accessories**



LN<sub>2</sub>/CO<sub>2</sub> backup system



Data logger



Chart recorder

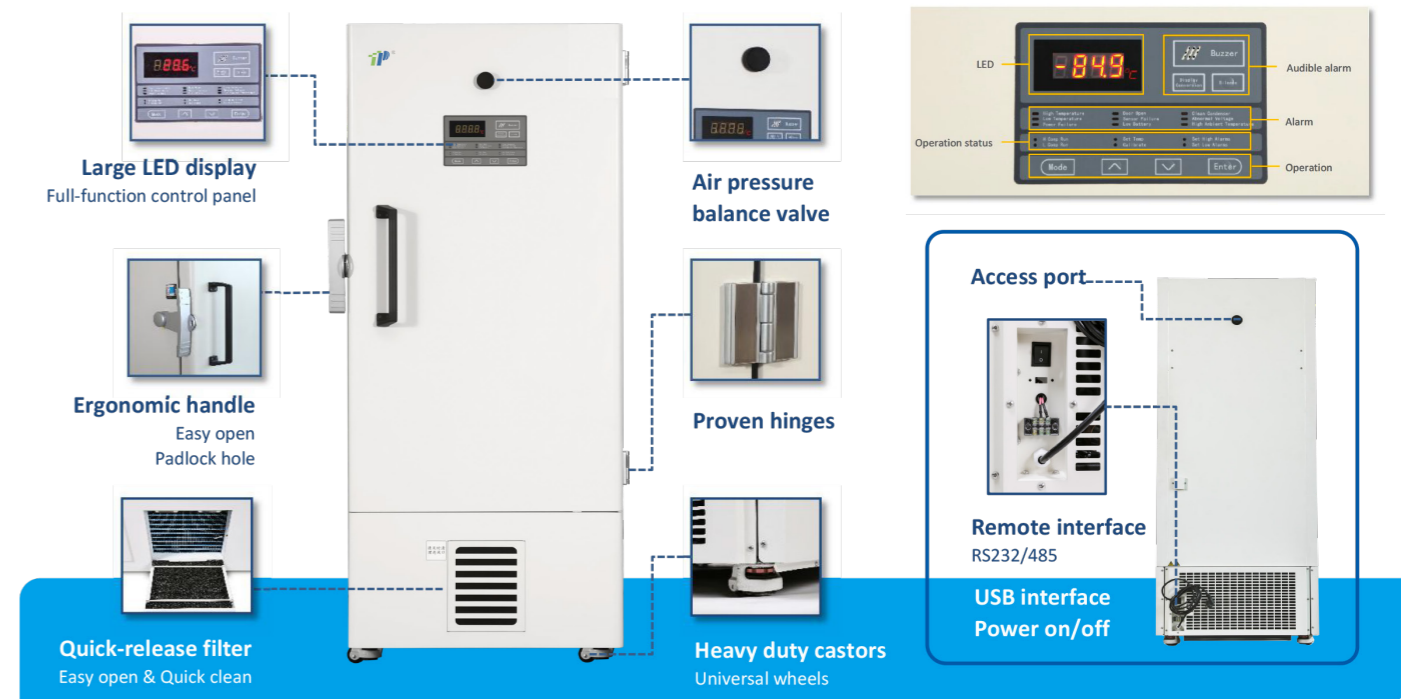


Racks & Boxes



Gloves

**External Structure**



**Thermal Profile**

