



TemplinTM
preserving life

Plasma Freezer -40°C



-40°C Ultra Low Temp Lab Freezer TI-DF-40-778

Features

- •High efficiency Refrigeration system
- •High-precision Temperature control system
- •Large-area finned condenser
- •High-performance vacuum insulation
- •Well-developed alarm system.



Features

- The digital temperature display can show various parameters simultaneously, such as temperature inside the cabinet, power voltage and environmental temperature, indicating operating status clearly
- The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet within a range from -20°C to -40°C
- The compressor supplied by an international famous brand and EBM fan is powerful, energy-saving and highly efficient
- The large-area finned condenser is characterized by a space equal to or less than 2mm between fins, providing a large area for heat dissipation and satisfactory performance
- The two-layer heat insulating foamed door with airbag-typed outer seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way
- The six sides of the cabinet are made from high-performance vacuum insulation material, improving thermal insulation performance to a large extent
- The well-developed alarm system has multiple alarm functions: high temperature/low temperature alarm, door ajar alarm, power failure alarm, abnormal voltage alarm, sensor failure alarm, low battery alarm, alarm of poor heat dissipation of condenser, system failure alarm, etc.
- The turn-on delay and stopping interval protection function can ensure reliability in running
- The keyboard lock function and password protection function can prevent any adjustment of operating parameters without permission
- The rotating handle facilitates door opening
- The adjustable layered structure is convenient for storage of various things
- The liner made from Galvanized steel sheet (optional stainless steel 304) for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean.

Scope of Application

Suitable for use in scientific research, cryogenic test on special materials, low temperature resistance test on biological materials, vaccines, biological products and military products, etc. Suitable for use in research institutions, the electronic industry, the chemical industry, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

Overview

-40°C laboratory low temperature freezer TI-DF-40-778 medical freezer is equipped with high-quality refrigeration system for fast cooling. The high-precision temperature control system can display various parameters simultaneously, including power voltage, temperature inside the cabinet and environmental temperature, which can indicate the operation status clearly. And you are free to set the temperature inside the cabinet in the range of -20°C to 40°C. The two-layer heat insulation foamed door with airbag-typed outer steel can prevent loss of refrigerating capacity in an effective way.

High-efficiency Refrigeration System

- Freon-free refrigerant, compressor supplied by an international famous brand and EBM fan can guarantee fast cooling and are energy-saving and environmentally friendly;
- Refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability;
- Two-layer heat insulating foamed door and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;
- The cabinet are made from high-performance insulation material, improving thermal insulation performance to a large extent.

High-precision Temperature Control

High-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

Human-oriented

High-quality steel plate structure with phosphate coating, Galvanized steel sheet (optional stainless steel) liner and low noise design can create a comfortable environment.

Model	TI-DF-40-778
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)	286/378
Performance	
Temperature range	-20 ~ -40°C
Ambient temperature	16-32°C
Cooling performance	-40°C
Climate class	N
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	2pcs
Cooling method	Direct cooling
Defrost mode	Manual
Refrigerant	R290
Insulation thickness(mm)	L/R:130, B:130

Construction	
External material	Cold rolled steel
Inner material	Stainless steel / Galvanized steel(optional)
Shelves	3(stainless steel)
Door lock with key	Yes
External Lock	Yes
Access port	3pc. Ø 25 mm
Casters	4+(2 leveling feet)
Data logging/Interval/Memory capacity	USB/Record every 10 minutes /1000,000data
Backup battery	Yes
Alarm	
Temperature	High/Low temperature,High ambient temperature
Electrical	Power failure,Low battery
System	Sensor failure, Condenser overheating, Door ajar, Communication error, Built-in USB datalogger failure
Accessory	
Standard	RS485, Remote alarm contact
Optional	Chart recorder