

Ultra Low Deep Freezers (-86°C)

Classic Series



- User-Friendly Interface
- High Precision Microprocessor Temperature Controller
- Targeted & Fast Refrigeration
- Energy-saving & Environmentally Friendly
- Unique Refrigeration Circuit
- 7" LED Touch Screen Display
- VIP Plus Vacuum Insulation
- Alarm & Security System

Ultra Low Deep Freezer is specially designed to meet the demands for long-term and safe storage of the high-valued medical and laboratory materials. The new structure of the Ultra Low Deep Freezer has a new look Microcomputer controller comes with 7 inches LED touch screen display, giving you more user-friendly and convenient interface can set the temperature uniformity inside the cabinet with a adjustable range from -40°C to -86°C with an uniform accuracy of 1°C. It comes with 2 individual inner doors can be opened independently. The optimized foaming insulation inside the doors provides better temperature performance. The targeted refrigeration of the deep freezer enables fast refrigeration. It is designed in human-oriented with energy saving and environmentally friendly.

Scope of Application :

The ultra low temperature freezer is suitable for use in Blood Banks, Hospitals, Health and Disease Prevention Systems, Research Institutions, Colleges & Universities, Electronic Industry, Biological Engineering, Laboratories in Colleges & Universities, Military Enterprises, Deep Sea Fishing Companies, etc.,



High Precision Temperature Control System

- The High Precision Microprocessor temperature control system and platinum resistor temperature sensors can realize more precise temperature control and enable users to set temperature inside the cabinet with a controllable range from -40°C to -86°C ensure the controlling precision 1°C.
- The Large 7" Inch LED Touch Screen display simultaneously display the chamber temperature, Power Supply, Voltage, Ambient Temperature, Alarm and other parameters, etc.. The running status is clearly displayed and can be seen from distance.



Security & Alarm System

- It has a Multiple Audible & Visible Alarm functions, such as High / Low Temperature Alarm, Sensor Failure Alarm, Door Ajar Alarm, High Ambient Temperature Alarm, System Failure Alarm, Power Failure Alarm, Abnormal Voltage Alarm, Low Battery Alarm, Condenser Cooling Failure Alarm, etc.,
- The turn-on delay and stopping interval protection can ensure reliable operation.
- The Lockable door, Keyboard Lock and Password protection prevents any unauthorized access and operation without permission.



Energy Saving

Effective Thermal Insulation System

- The Ultra Low temperature freezer is equipped with VIP+ vacuum insulation foaming door with seal. The two layer insulated foam door with double seal and the outdoor insulation design with multiple patents can prevent loss of cooling effectively and to improve temperature stability.
- The six sides of the cabinet are made from high-performance vacuum insulation materials, which can perfectly improve the thermal insulation performance.
- Two individual inner doors can be opened independently to minimize frost buildup and prevent loss of cooling inside the chamber.



Powerful Refrigeration System

- Ultra Low deep freezer is adopted high-efficiency hermetically sealed compressor and famous EMB fan, which are energy saving and environmentally friendly.
- CFC Free mixture refrigerant composing of R134a, R404a, R23, R410a, N2 and so on
- The large finned condenser with a space between fins less and equal to 2mm provides effective heat dissipation.
- Specialized refrigeration system design using whisper quiet fan and compressor less than 50dB



Ergonomic Design

- The interior are made of SS304 and Exterior is painted steel board low temperature resistance, anti-corrosion for long Service life and easy cleaning.
- The door with new type assisting rotating door handle to be opened easily.
- The two door design including the inner door and outer door can lock the cool air inside the chamber and ensures thermal insulation double silicon gasket seal for a long period.
- Equipped with temperature printer, records 7 days data. 72 hours battery backup for printer and controller display
- 4 Universal Caster wheels with Leveling foot design, easy for movement and fixation.
- Optional : Chart recorder, Co2 Backup System, LN2 backup system, storage racks & Boxes, Remote Alarm system.

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► Technical Specifications :

	Model No.	861-670	861-780	861-860	861-1000
Technical Data	Cabinet Type	Upright			
	Capacity (L)	678	778	858	1000
	Climate Class	N			
	Cooling Type	Direct cooling			
	Defrost Mode	Manual			
	Compressor	2 no			
	Refrigerant	CFC- Free, Mixture Gas			
	Evaporator	D-Form Copper tube			
	Fan Motor	EBM			
	Noise(dB(A))	56			
Performance	Cooling Performance (°C)	-86°C			
	Temperature Range (°C)	-40°C ~ -86°C			
	Ambient Temperature (°C)	16°C ~ 32°C			
Control	Controller	Microprocessor			
	Display	7" LED Touch Screen Display			
Function	USB Interface	YES			
	Access Test Port	3			
	Alarm	Audible & Visible : High / Low Temperature, Sensor Failure, Door Ajar, System Failure, High Ambient Temperature, Condenser Cooling Failure, Low Battery, Power Failure, Abnormal Voltage			
Construction	External	Cooled rolled steel with annealed painting with a nice finish			
	Internal	304 grade Stainless Steel			
	External Door	1 no			
	Inner Door	4 Individual		2 Individual	
	Shelves (SS304)	3 shelves		4 shelves	3 shelves
	Door Lock with Keys	YES			
	Inventory 2ml vial	50000	60000	66000	77000
	Insulation	VIP + Vacuum Insulation panel with 155 mm			
	Inventory Rack 2"	5 x 5 x 20 = 500	5 x 5 x 24 = 600	5x5x12+6x5x12 = 660	5x5x14+6x5x14 = 770
	Caster	4 units of Universal Caster wheels			
	Foot	2 Leveling Foot			
Electrical Data	Power Supply (V/Hz)	220 V ~ 240 V / 50Hz, 220V / 60Hz			
	Input Power (W)	1450	1450	1825	1900
	Rated Current (A)	7.5	7.5	8.5	9.3
	Power Consumption (KWh/24h)	14.4	14.5	16.5	19.15
Dimensions	Internal Dimension (WxDxH)	750x696x1286 mm	865x696x1286 mm	877x696x1378 mm	1022x696x1378 mm
	External Dimension (WxDxH)	1090x1025x1955 mm	1205x1025x1955 mm	1217x1025x2005 mm	1362x1025x2002 mm
	Net Wt.	330 Kgs	380 Kgs	390 Kgs	430 Kgs
Accessories	Optional	Chart Recorder, CO2 Backup System, LN2 Backup System, Remote Alarm System			
Others	Certificate	CE, ISO9001 :2015			