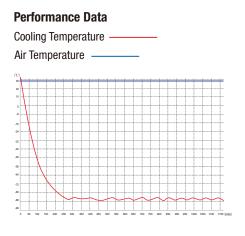


-86°C Ultra Low Temperature Freezer

Compact and Convenience

Venchal Scientific 861 series Ultra Low Deep Freezers are idle choice for effective sample storage.





861-050 Ultra Low Temperature Freezer is a mini deep freezer for laboratory and medical grade. This ultra low deep freezer is equipped with high-precision temperature control, ensuring the temperature uniformity in the cabinet with a adjustable range from -10°C to -86°C. Microprocessor controller with Large & Bright LED digital temperature display can be seen from distance. The targeted refrigeration of the deep freezer enables fast refrigeration. It is designed in human-oriented with energy saving and environmentally friendly.



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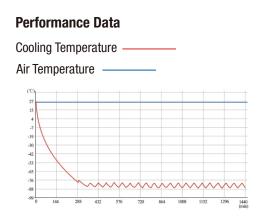


-86°C Ultra Low Temperature Freezer

Compact and Convenience

Venchal Scientific 861 series Ultra Low Deep Freezers are idle choice for effective sample storage.





812-100 Ultra Low Temperature Freezer is a mini deep freezer for laboratory and medical grade. This ultra low deep freezer is equipped with high-precision temperature control, ensuring the temperature uniformity in the cabinet with a adjustable range from -10°C to -86°C. Microprocessor controller with Large & Bright LED digital temperature display can be seen from distance. The targeted refrigeration of the deep freezer enables fast refrigeration. It is designed in human-oriented with energy saving and environmentally friendly. Equipped with Temperature record printer with 72 hours Backup.



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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 -10°C to -86°C ensure the controlling precision 1°C.
- The Large & Bright LED digital temperature 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, Low Battery Alarm, Communication 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.
- Individual inner door 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 hermatically 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 battery backup for printer and controller display.
- 4 Universal Caster wheels, easy for movement.
- Optional: Chart recorder, Printer, Rs485, Co2 Backup System, storage racks & Boxes, Remote Alarm system.

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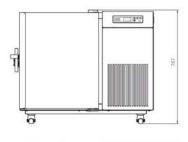
Technical Specifications:

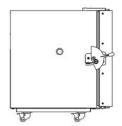
	Model No.	861-050	861-100		
Technical Data	Cabinet Type	Upr	ight		
	Capacity (L)	50 100			
	Climate Class	N			
	Cooling Type	Direct cooling			
	Defrost Mode	Manual			
	Compressor	High Effiency Danfoss Compressor 1no			
	Refrigerant	CFC- Free, Mixture Gas CFC- Free, Mixture Gas / 420			
	Evaporator	D-form copper tube Coil Evaporator			
	Fan Motor	EBM			
	Noise(dB(A)	≤ 50			
Performance	Cooling Performance (°C)	-86°C			
	Temperature Range (°C)	-10°C ~ -86°C			
	Ambient Temperature (°C)	16°C ~ 32°C			
Control	Controller	Microprocessor			
	Display	LED Digital Display			
Function	USB Interface	YES			
	Access Test Port	1 as Standard			
	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	High Quality Steel Plates with Powder Coating			
	Internal	304 grade St	ainless Steel		
	External Door	11	no		
	Inner Door	1 Individual Inner Doors	2 Individual Inner Doors		
	Shelves	1 shelf made of SS304			
	Door Lock with Keys	YES			
	Door with Heater	YES, Hot gas Surrounding			
	Insulation Thickness	VIP Plus vacuum	insulation130 mm		
	Data Logging/Time/Quantity	USB/Record every 1 minute / 365 days			
	Battery	48hours back-up battery			
	Inventory Boxes	Inventory 2" boxes: 42pcs boxes			
	Vials	Vials (2ml): 4200pcs			
	Caster	4 units of Universal Caster wheels			
	Foot	_	2 Leveling Foot		
Electrical Data	Power Supply (V/Hz)	220 V ~ 240 V / 50Hz, 220V / 60Hz			
	Rated Power (W)	650	1000		
	Input Power (W)	970	850		
	Power Consumption (KWh/24h)	7.97	9.8		
	Rated Current (A)	4.49	9.5		
Dimensions	Internal Dimension (WxDxH)	305x425x430 mm	450x439x514 mm		
	External Dimension (WxDxH)	953x668x757 mm	1066x742x820 mm		
	Packing Dimension (WxDxH)	1035x760x1184 mm	1180x825x995 mm		
	Not Wt / Cross Wt	104 Kgs / 122 kgs	145 Kgs / 176.5 kgs		
	Net Wt. / Gross Wt.	104 Kys / 122 Kys	140 Kys / 170.0 Kys		
Accessories	Optional		2 Backup System, Remote Alarm System		

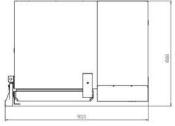
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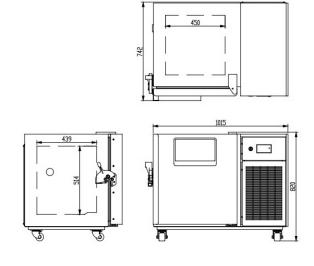


External Dimensions:



















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-86°C Ultra Low Temperature Freezer



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 -10°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,.

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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 -10°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.



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 hermatically 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 guiet fan and compressor less than 50dB



Ergonomic Design

- The interior are made of SS304 and Exterior is painted steel board low temperature resistance, anticorrosion 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.	861-400	861-530		
Technical Data	Cabinet Type	Upright			
	Capacity (L)	398 528			
	Climate Class	N			
	Cooling Type	Direct cooling			
	Defrost Mode	Manual			
	Compressor	1no			
	Refrigerant	CFC- Free, Mixture Gas			
	Evaporator	D-Form Copper tube			
	Fan Motor	EBM			
	Noise(dB(A)	50			
Performance	Cooling Performance (°C)	-86°C			
	Temperature Range (°C)	-10°C ~ -86°C			
	Ambient Temperature (°C)	16°C ~ 32°C			
Control	Controller	Microprocessor			
	Display	7" LED Touch S	Screen Display		
Function	USB Interface	YES			
	Access Test Port	2			
	Alarm	Audible & Visible : High / Low Temperature, Sensor Failure, Door Ajar, System Failure, USB Failure, High Ambient Temperature, Condenser Cooling Failure, Low Battery, Power Failure, Abnormal Voltage			
Construction	External	High Quality Steel Plates with Powder Coating			
	Internal	304 grade Stainless Steel			
	External Door	1 no			
	Inner Door	2 Individual Inner Doors			
	Shelves	3 shelf made of SS304			
	Door Lock with Keys	YE	ES .		
	Inventory 2ml vial	30000 40000			
	Insulation	VIP + Vacuum Insulation panel with 130 mm			
	Inventory Rack 2"	5 x 5 x 12 = 300 5 x 5 x 16 = 400			
	Caster	4 units of Universal Caster wheels			
	Foot	2 Leveling Foot			
Electrical Data	Power Supply (V/Hz)	220 V ~ 240 V / 50Hz, 220V / 60Hz			
	Rated Power (W)	950	1265		
	Input Power (W)	980 1445			
	Power Consumption (KWh/24h)	11 12.82			
	Rated Current (A)	5 6.57			
Dimensions	Internal Dimension (WxDxH)	440x696x1266 mm 585x696x1266 mm			
	External Dimension (WxDxH)	785x1041x1947 mm 930x1041x1947 mm			
	Packing Dimension (WxDxH)	880x1150x2085 mm 1025x1150x2085 mm			
	Net Wt. / Gross Wt.	237 Kgs / 272 kgs 286 Kgs / 319 kgs			
Accessories	Optional	Chart Recorder, CO2 Backup System, LN2 Backup System, Remote Alarm System, Printer			
			I I		

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► Technical Specifications :

	Model No.	861-678	861-778	861-858	861-1000	
Technical Data	Cabinet Type					
	Capacity (L)	678	778	858	1000	
	Climate Class	N 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)	-10°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			vidual	
	Shelves (SS304)	3 shelves		4 shelves	3 shelves	
	Door Lock with Keys	YES				
	Inventory 2ml vial	50000	60000	66000	77000	
	Insulation		VIP + Vacuum Insulati	on 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				

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