

-86°C ULT Freezer

Product Application

-86°C ULT Freezer is specially designed for long term storage of various biological products, such as germs, virus, erythrocytes, leukocytes, cutis. It can be installed in institutions including blood banks, hospitals, epidemic prevention services, research institutes and laboratories for electronic and chemical plants, biological engineering institutes and marine fishery companies.

Features

From individual laboratory users to ever-increasing sample storage needs, you can choose from ultra-low temperature storage solutions in multiple sizes.



Temperature Control

Microprocessor control, Large LED display inner temperature clearly, and with easy viewing;
The inner temperature can be adjustable at the range of -40°C~-86°C, with an increment of 0.1°C;
Lock and password for protection to prevent arbitrary adjustment of operating parameters
Optional 7" color LCD touch screen display system.



Safety Control

Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure, Power failure alarm, low voltage of backup battery,

Over temperature alarm system, set the alarm temperature as requirements;

Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm;

Protection function: power-on delay, time between stops.

Refrigeration System

Optimized cascade refrigeration technology, SECOP compressor to reach a refrigeration effect;

Specially designed Heat Exchanger, heat transfer high efficient, save Energy;

V.I.P insulation panels to ensure the insulation performance;

CFC-Free overall polyurethane foaming insulation;

High efficient hydrocarbon refrigerant.



Ergonomic Design

Safety door lock, preventing unauthorized access;

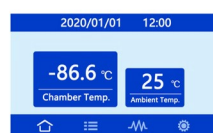
Wide voltage design from 192V to 242V;

Double inner doors to reduce the loss of cold after opening the door;

Suitable for 2" and 3" international standard freezer boxes; Pressure-balanced port design, easy to open the door;

Heavy type caster and locking adjustable screw, easy to move and fix;

Ultra-simple condenser filter design, convenient for maintenance and washing.



Color Touch Screen Display



Large Digital Screen Display



Easy Remove Filter



Remote Alarm contacts & Backup Battery Switch

Optional



Cryo Racks



Cryo Boxes



Chat Temperature Recorder



Model		DW-86W128	DW-86L280	DW-86L360	DW-86L480	DW-86L590	DW-86L730
Technical Data	Cabinet Type	Chest	Vertical	Vertical	Vertical	Vertical	Vertical
	Climate Class	N	N	N	N	N	N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	HC, Mixing	HC, Mixing	HC, Mixing	HC, Mixing	HC, Mixing	HC, Mixing
Performance	Cooling performance(°C)	-80					
	Temperature Range(°C)	-40 ~ -86					
Material	Exterior Material	Galvanized steel powder coating					
	Interior Material	Stainless steel	Galvanized steel powder coating				
	Insulation Material	PUF+VIP					
Dimensions	Capacity(L)	128L	280L	360L	480L	590L	730L
	Interior Dimensions(W*D*H)	630×440×470 (mm)	460×470×1310mm	460×600×1310mm	600×600×1310mm	740×600×1310mm	740×730×1310mm
	Exterior Dimensions(W*D*H)	850×660×1020 (mm)	640×692×1970mm	640×822×1970mm	780×822×1970mm	920×822×1920mm	920×952×1970mm
	Thickness of Cabinet Foamed Layer	Four walls and top with 90mm, bottom with 130mm					
	Thickness of Door	90mm	90mm	90mm	90mm	90mm	90mm
Capacity for 2 inch boxes		96	180	240	320	400	480
Inner door		—	2	2	2	2	2
Power Supply(V/Hz)		220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Power (W)		400	500	700	750	800	850
Energy consumption (KW.H/24H)		4.5	6.5	9.5	9.8	12	14
Controller Function	Display	Large digital display & adjusting keys					
	High/Low Temperature	Y	Y	Y	Y	Y	Y
	Hot Condenser	Y	Y	Y	Y	Y	Y
	Power Failure	Y	Y	Y	Y	Y	Y
	Sensor Error	Y	Y	Y	Y	Y	Y
	Low Battery	Y	Y	Y	Y	Y	Y
	High Ambient Temp	Y	Y	Y	Y	Y	Y
	Alarm mode	Sound and light alarm, remote alarm terminal					
Accessories	Caster	Y	Y	Y	Y	Y	Y
	Test Hole	Y	Y	Y	Y	Y	Y
	Shelves (stainless steel)	—	3	3	3	3	3
	Chart Temperature Recorder	Optional	Optional	Optional	Optional	Optional	Optional
	Door locking device	Y	Y	Y	Y	Y	Y
	Handle	Y	Y	Y	Y	Y	Y
	Pressure balance hole	Y	Y	Y	Y	Y	Y
	Racks & Boxes	Optional	Optional	Optional	Optional	Optional	Optional

