

Altech Equipment Systems Pte Ltd

1 Bukit Batok Crescent Wcega Plaza #08-35 Singapore 658064
Tel : 65-6570-1293/ 6425-5376 Fax: 65-6570 6773
Email: mail@altech-equipment.com Website : www.altech.sg

-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.

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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

7" color touch screen display, and data logger with USB data download port(optional);

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;

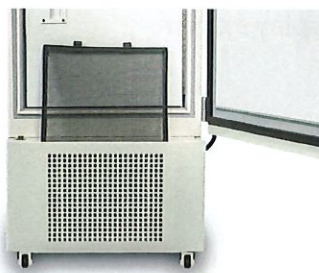
Ultra-simple condenser filter design, convenient for maintenance and washing.



Color Touch Screen Display



Large Digital Screen Display



Easy Remove Filter



Remote Alarm contacts & Backup Battery Switch

Optional



Cryo Racks



Cryo Boxes



Chart Temperature Recorder



Model	DW-86L280	DW-86L360	DW-86L450	DW-86L590	DW-86L730	DW-86L900
Technical Specification	Cabinet Type	Vertical	Vertical	Vertical	Vertical	Vertical
	Climate Class	N	N	N	N	N
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual
Performance Parameters	Refrigerant	HC mixed	HC mixed	HC mixed	HC mixed	HC mixed
	Temperature Setting (°C)	-81	-81	-81	-81	-81
	Temperature Range (°C)	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
	Rated Voltage (V/Hz)	220/50	220/50	220/50	220/50	220/50
	Power (W)	520	650	920	950	1000
Control System	Power Consumption (kWh/24h)	9.5	12.2	14	15	15.3
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Material	Display Type	LED(Red)	LED(Red)	LED(Red)	LED(Red)	LED(Red)
	Interior Material	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating
	Exterior Material	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating	Galvanized steel with powder coating
Dimension	Insulation Materials	PUF+VIP	PUF+VIP	PUF+VIP	PUF+VIP	PUF+VIP
	Capacity(L)	291L	372L	485L	599L	728L
	Net Weight/Gross Weight	190kg/211kg	230kg/261kg	253kg/283kg	272kg/311kg	297kg/336kg
	Interior Dimension (W*D*H)	460x470x1310mm	460x600x1310mm	600x600x1310mm	740x600x1310mm	740x730x1310mm
	Exterior Dimension (W*D*H)	640x724x1976mm	640x854x1976mm	780x854x1976mm	920x854x1976mm	920x952x1976mm
	Packaging Dimension (W*D*H)	740*180*2180 (mm)	720*600*2180 (mm)	860*900*2180 (mm)	1000*970*2180(mm)	1010*1070*2180(mm)
	Body foaming thickness	90mm	90mm	90mm	90mm	90mm
	Door foaming thickness	90mm	90mm	90mm	90mm	90mm
	2" freezer box	180	240	320	400	500
	Inner door	2	2	2	2	2
Function	Low/High temperature alarm	Y	Y	Y	Y	Y
	Condenser high temperature alarm	Y	Y	Y	Y	Y
	Power failure alarm	Y	Y	Y	Y	Y
	Sensor failure alarm	Y	Y	Y	Y	Y
	High room temperature alarm	Y	Y	Y	Y	Y
Accessories	Alarm Mode	Audible and Visual Alarm, Remote alarm terminal	Audible and Visual Alarm, Remote alarm terminal	Audible and Visual Alarm, Remote alarm terminal	Audible and Visual Alarm, Remote alarm terminal	Audible and Visual Alarm, Remote alarm terminal
	Castor	Y	Y	Y	Y	Y
	Test Port	Y	Y	Y	Y	Y
	Shelf (Stainless steel)	3	3	3	3	3
	Chart Temperature Recorder	Optional	Optional	Optional	Optional	Optional
	Lock device	Y	Y	Y	Y	Y
	Door Handle	Y	Y	Y	Y	Y
	Pressure Balance port	Y	Y	Y	Y	Y
Freezer Racks & Boxes	Optional	Optional	Optional	Optional	Optional	
Main Components Brand	Compressor	SECOP	SECOP	SECOP	SECOP	SECOP

