-86°C Hydrocarbon ULT Freezer

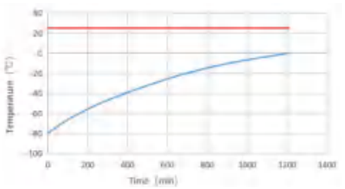
Hydrocarbon refrigeration • energy saving and environmentally friendly

Ideal for long-term storage of red and white blood cells, skin, bone, bacteria, viruses, biological products, marine specimens, as well as for low-temperature testing of electronic components and special materials.

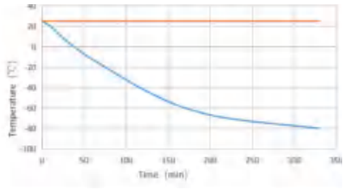


DW-86L437T/567T/707T

DW-86L707T
thawing curve



DW-86L707T
cooling curve



Product Advantages

Energy Saving

Optimized hydrocarbon refrigeration system delivers high energy efficiency and low power consumption. Certified by the China Quality Certification Center for environmental performance.

Safe & Secure

Start-up delay protection, power-cut protection, password protection, high/low temperature alarm, power failure alarm, dirty condenser alarm, high ambient temperature alarm, sensor fault alarm, low battery level alarm, open door alarm etc.

Storage

High internal capacity: 30,000 2ml cryotubes for DW-86L437T, 40,000 for DW-86L567T and 50,000 for DW-86L707T

Advanced Refrigeration System

Optimized dual-stage cascade referigeration system with compressor that offers powerful, energy-saving and efficient operation

Energy-saving and Environment-friendly

Hydrocarbon refrigerant, 130mm thick insulation layer, energy saved by 30%

Real-time Data

Operating temperature and alarm data can be checked at any time

Interface and Monitoring

7” LCD display with intuitive operation and real-time running status

Product Parameters

Model			DW-86L437T	DW-86L567T	DW-86L707T
Approved Regions			Asia-Pacific, South Asia, Europe, CIS, Middle East, India, South America, Africa		
Technical Data	Cabinet Type		Upright	Upright	Upright
	Climate Class		SN	SN	SN
	Cooling Type		Direct cooling	Direct cooling	Direct cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		HC	HC	HC
	Sound Level (dBA)		50	50	50
Performance	Temperature Range (°C)		-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		7-inch touch screen LCD	7-inch touch screen LCD	7-inch touch screen LCD
Electrical Data	Power Supply (V/Hz)		220/50-220/60-115/60	220/50-220/60-115/60	220/50-220/60-115/60
	Power (W)		1200	1200	1200
	Electrical Current (A)		7	7	7
Dimensions	Capacity (L/Cu.Ft)		437/15.43	567/20.02	707/24.96
	Net/Gross Weight (approx)	(kg)	300/330	317/350	359/395
		(lbs)	661/727	698/771	791/870
	Interior Dimension (W×D×H)	(mm)	460×720×1310	590×720×1310	740×720×1310
		(in)	18.1×28.3×51.6	23.2×28.3×51.6	29.1×28.3×51.6
	Exterior Dimension (W×D×H)	(mm)	790×1100×1950	920×1100×1950	1070×1100×1950
		(in)	31.1×43.3×76.8	36.2×43.3×76.8	42.1×43.3×76.8
	Packing Dimension (W×D×H)	(mm)	875×1144×2060	1005×1144×2060	1155×1144×2060
		(in)	34.4×45×81.1	39.6×45×81.1	45.5×45×81.1
	20GP/40GP/40HQ		12/26/26	10/22/22	8/20/20
Alarms	High/Low Temperature		Y	Y	Y
	Hot Condenser		Y	Y	Y
	Power Failure		Y	Y	Y
	High/Low Voltage		Y	Y	Y
	Sensor Error		Y	Y	Y
	Low Battery		Y	Y	Y
	High Ambient Temperature		Y	Y	Y
	Door Ajar		Y	Y	Y
	Filter Dirty Alarm		Y	Y	Y
	Voltage Exceed Alarm		Y	Y	Y
Accessories	Caster Wheels		Y	Y	Y
	Static Foot		Y	Y	Y
	Service Port/Quantity		Y/2	Y/2	Y/2
	Shelves/ Inner Doors		3/4	3/4	3/4
	USB Interface		Y	Y	Y
	Remote Alarm		Y	Y	Y
	5V Power Supply Port		Optional	Optional	Optional
	Temperature Chart Recorder		Optional	Optional	Optional
	RS485 Port		Y	Y	Y
Other	Certification		CE	CE	CE

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Product Parameters

Model		DW-86L437T	DW-86L567T	DW-86L707T
Operational Performance	Temperature Setting Mode	Digital (Control Accuracy 0.1°C)	Digital (Control Accuracy 0.1°C)	Digital (Control accuracy 0.1°C)
	Temperature Sensor	PT100	PT100	PT100
	Power Consumption (kWh/24h)	10.5	11.5	13.2
Material & Build	Exterior Material	Color coated cold rolled steel	Color coated cold rolled steel	Color coated cold rolled steel
	Interior Material	Color coated steel plate	Color coated steel plate	Color coated steel plate
	Insulation	CFC-free foam	CFC-free foam	CFC-free foam
	Outer Door	Single solid door	Single solid door	Single solid door
	Door Thickness	100mm	100mm	100mm
	Cabinet Thickness	130mm	130mm	130mm
	Inner Door	Four solid doors	Four solid doors	Four solid doors
	External Door Sealing Structure	Double seal on external door seal strip	Double seal on external door seal strip	Double seal on external door seal strip
	Inside Door Sealing Structure	Single seal on the interior door seal strip	Single seal on the interior door seal strip	Single seal on the interior door seal strip
	Padlock Latch/Quantity	Y/2	Y/2	Y/2
	Built-in Key Door Lock/Quantity	Y/1	Y/1	Y/1
	Electroning Magnetic Lock	N/A	N/A	N/A
Product Accessories	Shelves Material	Stainless steel	Stainless steel	Stainless steel
	Adjustable Shelves	Y	Y	Y
	Shelves Dimension	430×665	560×665	710×665
	Static Feet	Y	Y	Y
	Compressor Type	Hermetic reciprocating	Hermetic reciprocating	Hermetic reciprocating
	Compressor Brand	SECOP	SECOP	SECOP
	Compressor Quantity	2	2	2
	Refrigerant Model	R290/R170	R290/R170	R290/R170

Model		DW-86L437T	DW-86L567T	DW-86L707T
Product Accessories	Frozen Storage Rack Loading Quantity (2inches)	12	16	20
	Frozen Storage Box Loading Quantity (2 inches)	300	400	500
	Sample Loading Quantity (Calculated at 10×10)	30000	40000	50000
Function Parameters	Ambient Temperature Display	Y	Y	Y
	Boot Delay Protection	Y	Y	Y
	Boot Delay Design	Y	Y	Y
	Screen Setting Protection	Y	Y	Y
	Power Failure Interval Protection	Y	Y	Y
	Compressor Start Delay Protection	Y	Y	Y
Evaporator	Type	Copper tube	Copper tube	Copper tube
	Material	TP2M	TP2M	TP2M
Condenser	Type (Forced Cooling)	Fin condenser	Fin condenser	Fin condenser
	Material (Forced Cooling)	TP2M	TP2M	TP2M
	External Fan	EBM	EBM	EBM
	Internal Temperature Uniformity (°C)	±4	±4	±4
	Internal Temperature Accuracy (°C)	0.1	0.1	0.1
	Cooling Speed (mins)	210	220	240
	Holdover time at 25°C ambient (From -80°C to -50°C) (mins)	240	250	280
	Backup battery / battery life (hrs)	Y/48	Y/48	Y/48
	Temperature recorder battery life (hrs)	36	36	36