-86°C Variable Frequency Hydrocarbon ULT Freezer with Dual Refrigeration System

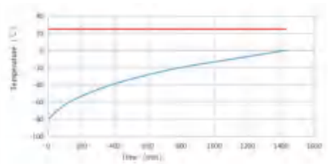
Intelligent dual refrigeration system

Used by scientific research institutes, disease control centers, colleges, bioengineering firms, hospitals, blood banks, deep-sea fisheries, electronic manufactures and chemical industries etc.

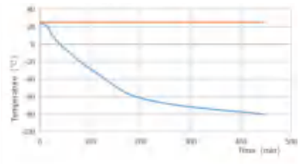


DW-86L567TBS/707TBS/937TBS

DW-86L937TBS thawing curve



DW-86L937TBS cooling curve



Product Advantages

Dual Refrigeration System

Equipped with two independent variable frequency hydrocarbon refrigeration systems, each capable of maintaining temperatures down to -80 ° C. In the event of a single system failure, the other continues operating to ensure sample safety and uninterrupted storage

Enhanced Connectivity

Supports multiple communication interfaces for efficient remote monitoring and status checks

Precise Temperature Control

Microcomputer controlled system allows temperature control accuracy up to ±0.1°C, adjustable internal temperature ranging from -40°C to -86°C with uniform temperature distribution

IoT

WEB-based intelligent sample management system that requires no code customization and supports browsers of various platforms

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.

Interface and Monitoring

10.1" display with new UI design, intuitive operation and real-time running status

Silent

Variable frequency compressor with optimized compressor noise reduction to achieve a noise level below 55 dB, allowing for a comfortable working environment

Energy Saving

Variable frequency hydrocarbon compressor offers increased energy efficiency

Product Parameters

Model			DW-86L567TBS	DW-86L707TBS	DW-86L937TBS
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)		46	46	46
Performance	Temperature Range (°C)		-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		10-inch touch screen LCD	10-inch touch screen LCD	10-inch touch screen LCD
Electrical Data	Power Supply (V/Hz)		100~240/50/60	100~240/50/60	100~240/50/60
	Power (W)		1200	1200	1300
	Electrical Current (A)		7	7	8
Dimensions	Capacity (L/Cu.Ft)		567/20.02	707/24.96	937/33.08
	Net/Gross Weight (approx)	(kg)	317/350	359/395	417/459
		(lbs)	698/771	791/870	919/1011
	Interior Dimension (W×D×H)	(mm)	590×720×1310	740×720×1310	1020×725×1258
		(in)	23.2×28.3×51.6	29.1×28.3×51.6	40.2×28.5×49.5
	Exterior Dimension (W×D×H)	(mm)	920×1100×1950	1070×1100×1950	1360×1070×1960
		(in)	36.2×43.3×76.8	42.1×43.3×76.8	53.5×42.1×77.2
	Packing Dimension (W×D×H)	(mm)	1005×1144×2060	1155×1144×2060	1400×1150×2070
		(in)	39.6×45×81.1	45.5×45×81.1	55.1×45.3×81.5
	20GP/40GP/40HQ		10/22/22	8/20/20	8/16/16
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	3/2
	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		/	/	/

-86°C Hydrocarbon ULT Freezer

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)	11.9	13.8	15.9
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 interior door seal strip	Single seal on interior door seal strip	Single seal on 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	N	N
Product Accessories	Shelves Material	Stainless steel	Stainless steel	Stainless steel
	Adjustable Shelves	Y	Y	Y
	Shelves Dimension	560×665	710×665	900×650
	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	R600a/R1150/R14	R600a/R1150/R14	R600a/R1150/R14

Model		DW-86L437T	DW-86L567T	DW-86L707T
Product Accessories	Frozen Storage Rack Loading Quantity (2inches)	16	20	28
	Frozen Storage Box Loading Quantity (2 inches)	400	500	700
	Sample Loading Quantity (Calculated at 10×10)	40000	50000	70000
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)	±2	±2	±2
	Internal Temperature Accuracy (°C)	0.1	0.1	0.1
	Cooling Speed (mins)	210	230	260
	Holdover time at 25°C ambient (From -80°C to -50°C) (mins)	250	280	300
	Backup battery / Battery life (hrs)	Y/48	Y/48	Y/48
	Temperature recorder battery life (hrs)	36	36	36