-40°C Deep Freezer

Hydrocarbon refrigeration with frequency conversion and low energy consumption

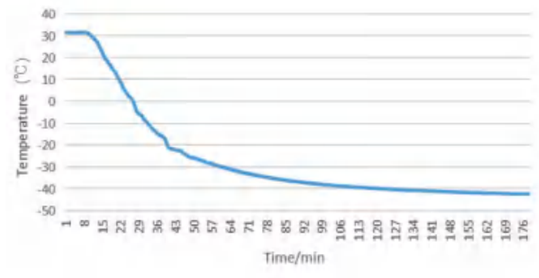
Widely used in electronic and chemical laboratories, hospitals, blood banks, scientific research institutions, and disease control centers for low-temperature testing of electronic components and special materials, as well as the storage of plasma, biological samples, vaccines, and other temperature-sensitive materials.

Economical Model



DW-40L276

DW-40L276 cooling curve



Efficient Refrigeration with One-Touch Operation

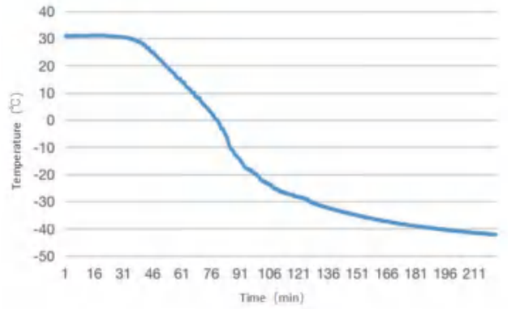
Dual-chamber design ensures that the temperature in one compartment remains stable when the other is opened, maintaining optimal storage conditions

Economical Model



DW-40L525

DW-40L525 cooling curve



Product Advantages

Precise Temperature Control

Microprocessor controlled system allows temperature control accuracy up to ±0.1°C, adjustable internal temperature ranging from -20 ° C to -40 ° C with uniform temperature distribution

Safety

Various essential alarms: High/low temperature alarm, sensor error alarm, power failure alarm

Thermal Insulation

Thick insulation layer with advanced microcellular foaming technology ensures excellent thermal retention

Refrigeration

Environmentally friendly CFC-free refrigerant with forced cooling

User-Friendly Design

- Drawer design for easy handling
- With door lock to prevent unauthorized access
- Pressure balancing valve for reduced effort to open chamber
- Caster wheels with locks

Product Advantages

Temperature control system

Microprocessor controlled system allows temperature control accuracy up to ±0.1°C, adjustable internal temperature ranging from -20 ° C to -40 ° C with uniform temperature distribution

Safety

Wide range of precautionary alarms: High/low temperature alarm, sensor error alarm, door-open alarm, power failure alarm, battery undervoltage alarm etc.

Thermal insulation

Double door, 100mm thick insulation layer, double seal inside and outside

Refrigeration

Environmentally friendly CFC-free refrigerant with forced cooling

Ergonomic Design

Wide operating voltage range, 10 separate drawers, universal wheels and static feet with door frame heating

-40°C Deep Freezer

Product Parameters

Model			DW-40L276	DW-40L525
Technical Data	Cabinet Type		Upright	Upright
	Climate Class		SN	SN
	Cooling Method		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dBA)		48.9	50.6
Performance	Temperature Range (°C)		-20~-40	-20~-40
Control	Controller		Microprocessor	Microprocessor
	Display		LED	LED
Electrical Data	Power Supply (V/Hz)		~220/50	~220/50
	Power (W)		550	535
	Electrical Current (A)		/	/
Dimensions	Capacity (L/Cu.Ft)		276/9.75	525/18.54
	Net/Gross Weight (approx)	(kg)	106/125	175/220
		(lbs)	233.7/275.6	385.8/485
	Interior Dimension (W×D×H)	(mm)	509×505×1205	683×645×1179
		(in)	20.0×19.9×47.4	26.9×25.4×46.4
	Exterior Dimension (W×D×H)	(mm)	717×710×1745	945×836×1900
		(in)	28.2×28.0×68.7	37.2×32.9×74.8
	Packing Dimension (W×D×H)	(mm)	790×811×1928	976×923×2057
		(in)	31.1×31.9×75.9	38.4×36.3×81.0
	20GP/40GP/40HQ		14/30/30	12/26/26
Alarms	High/Low Temperature		Y	Y
	Remote Alarm		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature		N	N
	Door Ajar		Y	Y
Accessories	Caster Wheels		Y	Y
	Static Foot		Y	N
	Service Port/Quantity		Y	Y
	Drawers/Inner Doors		0/4	0/12
	USB Interface		N	Y
	Temperature Recorder		N	N
Other	Certifications			
Operational Performance	Temperature Setting Mode		Digital (Accuracy ±1°C)	Digital (Accuracy ±1°C)
	Temperature Sensor		Thermistor	Thermistor
	Power Consumption (kWh/24h)		5.8	7.5

Model		DW-40L276	DW-40L525
Material	Exterior Material	SPCC powder coated cold rolled steel	SPCC powder coated cold rolled steel
	Interior Material	Polystyrene Plate	SPCC powder coated cold rolled steel
	Insulation	Cyclopentane Foaming Agent	Cyclopentane Foaming Agent
	External Door/Quantity	Foam door/1	Foam door/2
	Sealing Strip	Two Sealing Strips	Two Sealing Strips
	External Door Sealing Type/ Quantity	Foam Rubber/1	Foam Rubber/2
	Padlock Latch/Quantity	N	Y/2
	Built-in Key Door Lock/Quantity	Y/1	N
	Inner Door	N	N
Product Accessories	Shelves Type	Immersion basket	Drawer
	Adjustable Shelves	N	N
	Shelves Dimension	N/A	N/A
	Shelves Quantity	N/A	N/A
	Storage Basket	4	12
	Static Feet	Y/2	???×××
	Drawers Material/Quantity	Immersion basket/4	drawer/12
Compressor Data	Compressor Type	NUT140NA	SC21CNX.2
	Brand	HUAYI	SECOP
	Compressor Power (W)	163	224
	Compressor Quantity	1	1
	Refrigerant Type	R290	R290
Function Parameters	Alarm System	Y	Y
	Temperature Alarm	Y	Y
	Filter Dirty Alarm	N	N
	Excess Voltage Alarm	N	N
	Boot Delay Protection	Y	Y
	Display Screen Password Protection	Y	Y
Evaporator	Type	Wire tube evaporator	Wire tube evaporator
	Material	Electrophoretically coated fin-tube	Electrophoretically coated fin-tube
Condenser	Type (Forced Cooling)	Tube-and-Shell condenser	Fin condenser
	Material (Forced Cooling)	Electrophoretically coated fin-tube	Finned copper tube
	Outside Fan	EBM	EBM
	Internal Temperature Uniformity	≤4	≤4
	Internal Temperature Accuracy	±1	±1

-40°C Deep Freezer

Product Parameters

Model		DW-40L276	DW-40L525
Condenser	Cooling Speed (mins): (From ambient 25°C to -40°C)	≤300	≤300
	Holdover time (mins): (From -40°C to -20°C @ ambient 25°C)	80~240	80~240
	Backup Battery/Battery Life (hrs)	Y/72	Y/72
Others	Building Supply Rating (A)	10	10
	Power cable Length (m)	2.5	2.5
	Heat Transfer Rate (BTU/hr)	413	565
	Operating Ambient Temperature (°C)	10°C~32°C	10°C~32°C
	Compressor Capacity (W)	250	341
	Controller Position	Top	Top
	Controller Type	Microprocessor	Microprocessor
	Setpoint Lock	Y	Y
	Controller Sensor	NTC	NTC
	Remote Alarm Terminal	Y	Y
	Adjustable High/Low Temp Alarms	Y	Y
	Automatic Voltage Protection	N	N
	Shelves Material	N/A	N/A
	Door Thickness (mm)	65	55
	Wall Thickness (mm)	97	100
	External Fan Brand	EBM	EBM
	Caster Wheels	N	N
	Condenser Type	Wire tube condenser	Fin condenser
	Internal Fan Brand	N/A	N/A
	Alarm Battery	N	N
	Temperature Uniformity (°C)	≤4	≤4
	Temperature Accuracy (°C)	1°C	1°C