

# Biomedical Freezer



## -40°C Biomedical Freezer(Double Doors Type)

The double door -40°C biomedical freezer models offer a large capacity storage space with rapid cooling. Integrated design of cold shelf and evaporator provides additional refrigeration efficiency. Designed to store vaccines, blood plasma and many other biological materials. Installations can be found in research institutions and clinical sites in the life science, pharma, biotech, medical and electronics sectors.



DW-40L508



DW-40L348



Control panel



Drawer



Shelf

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The DW-40L348 is based on the original work horse platform of DW-40L508. The new freezer model operates with two capillary tubes and is equipped with dual gaskets to improve the temperature uniformity through the chamber drastically. It can be installed to satisfy tougher application requirements in universities, research institutions and blood banks.

### Reliability and Key Features

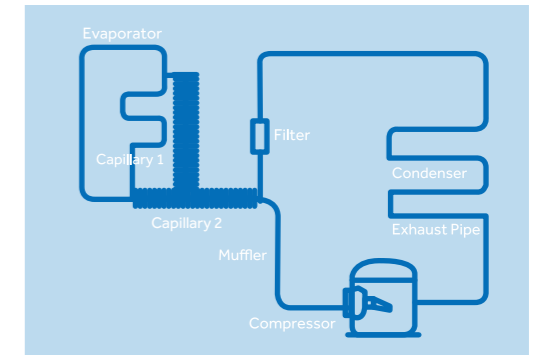
- Rated for -40°C at 32°C ambient
- Rapid cooling with shelf evaporator
- Improved temperature uniformity with dual capillary tube design at the range of -20°C to -40°C
- Improved door seal design with two gaskets maintains cabinet temperature more efficiently
- Reduced frost buildup
- 90mm Insulation thickness for additional robustness, less power consumption and better temperature retaining ability
- Drawer design maximizes storage space. One unit can hold 360 bags of 230 ml blood bags
- Optional USB interface

### Safety

- Multiple malfunction alarms include high/low temperature, power failure, sensor error, low battery, high ambient temperature
- Two types of alarms: buzzer and flashing light, remote alarm

### Ergonomic Design

- LED digital display for clear observation
- Double door design with independent locks reduces air leakage to ensure temperature stability and lower power consumption
- Tracks to label drawers for product identification



## -40°C Biomedical Freezer (Upright)



### Key Features

- Microprocessor control, adjustable temperature range :-20°C to -40°C
- LED digital display and increment at 0.1°C
- Permanently lubricated cooling fan for safety and longevity
- Rapid cooling with shelf evaporator
- Removable double outer door seal design, good sealing effect and energy saving

### Ergonomic Design

- USB data logging and temperature recorder (optional)
- Padlock with stainless steel cylinder for safe storage
- Drawers are designed with label holders for item identification

### Safety

- Multiple malfunction alarms include high/low temperature, sensor error, power failure, high ambient temperature, low battery, door ajar
- Alarm Types: buzzer, flashing light, remote alarm



Reliable Performance



USB



Malfunction Alarms



Double Outer Door Seal



Padlock



Caster and feet



Removable double outer door seal

## -40°C Biomedical Freezer (Chest)



### Reliability and Key Features

- High efficiency low temperature compressor with known field reliability
- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant
- Permanently lubricated cooling fan for safety and longevity, high density insulation foam for stable and long term storage temperature
- Optimized refrigeration system designed to maximize cooling effect and temperature uniformity
- Microprocessor control, digital display, adjustable temperature range: -20°C~-40°C
- LCD digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 198-252 V/AC

### Safety

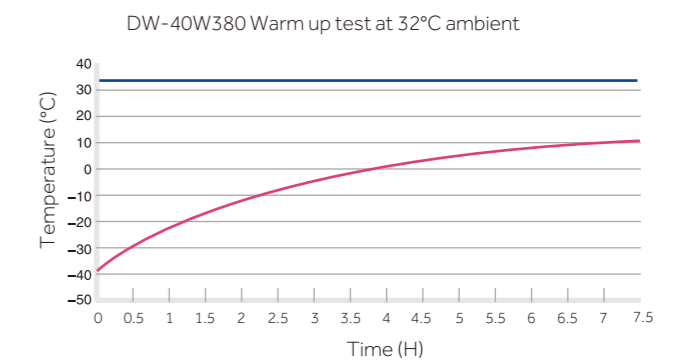
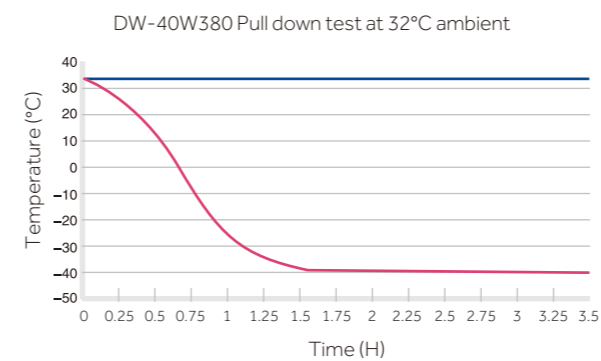
- Multiple malfunction alarms to detect high / low temperature, sensor error and power failure
- Two types of alarm indications: audible buzzing and visual flashing light

### Ergonomic Design

- Door lock for storage safety
- Standard ø25mm access port for testing
- Corrosion proof cabinet interior design
- Suitable for a variety of storage baskets



Inner



**Specifications**

	Model	DW-40L92	DW-40L262	DW-40L278	DW-40L348	DW-40L508	DW-40W100	DW-40W255	DW-40W380	
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright, Double Door	Upright, Double Door	Chest	Chest	Chest	
	Climate Class	4	4	4	4	4	4	4	4	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	
	Refrigerant	CFC-Free	CFC-Free	HC CFC-Free	HC	HC CFC-Free	CFC-Free	CFC-Free	CFC-Free	
Performance	Sound Level(dB(A))	40	44	40 44	41	41 45	35	41	45	
	Cooling Performance(°C)	-40	-40	-40	-40	-40	-40	-40	-40	
Control	Temperature Range(°C)	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40	
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
Electrical Data	Display	LED	LED	LED	LED	LED	LCD	LCD	LCD	
	Power Supply(V/Hz)	220-240/50	220-240/50/60 115/60	220-240/50 220-240/50/60	220-240/50	220-240/50 208-230/60	220-240/50 115/60	220-240/50/60	220-240/50/60	
	Power(W)	220	400 600	275 370	280	285 430	260 255	410	550	
Dimensions	Electrical Current(A)	0.5	4.8 7.5	2.9 5.1	2.9	2.9 2.9	2.5 5.0	2.5	3.4	
	Capacity(L/Cu.Ft)	92/3.3	262/9.3	278/9.8	348/12.3	490/17.3	100/3.5	255/9.0	380/13.4	
	Net/Gross Weight (approx)	kg	46/51	88/93	115/135	137/145	164/200	43/46	70/82	82/89
		lbs	101.4/112.4	194.0/205.0	253.5/297.6	302.0/320.0	361.6/440.9	94.8/101.4	154.3/180.8	180.8/196.2
	Interior Dimensions (W*D*H)	mm	435*410*635	480*465*1430	520*435*1230	535*610*1228	685*610*1228	500*385*630	1036*426*625	1375*453*640
		in	17.1*16.1*25.0	18.9*18.3*56.3	20.5*17.1*48.4	21.1*24.0*48.3	27.0*24.0*48.3	19.7*15.2*24.8	40.8*16.8*24.6	54.1*17.8*25.2
	Exterior Dimensions (W*D*H)	mm	640*610*860	700*705*1665	770*710*1810	790*845*1860	940*845*1860	685*650*810	1243*724*838	1554*724*838
		in	25.2*24.0*33.9	27.6*27.8*65.6	30.3*28.0*71.3	31.1*33.3*73.2	37.0*33.3*73.2	27.0*25.6*31.9	48.9*28.5*33.0	61.2*28.5*33.0
Packing Dimensions (W*D*H)	mm	660*700*935	775*760*1880	832*757*1992	852*927*2044	997*927*2044	740*650*880	1320*755*905	1635*760*900	
	in	26.0*27.6*36.8	30.5*29.9*74.0	32.8*29.8*78.4	33.5*36.5*80.5	39.3*36.5*80.5	29.1*25.6*34.6	52.0*29.7*35.6	64.4*29.9*35.4	
Alarms	Container Load (20'/40'/40'H)	54/108/108	24/48/48	14/28/28	14/28/28	12/24/24	54/108/162	24/54/81	18/42/63	
	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y	
	Remote Alarm	N/A	N/A	Y	Y	Y	N/A	N/A	N/A	
	Power Failure	N/A	N/A	Y	Y	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y	
	Low Battery	N/A	N/A	Y	Y	Y	N/A	N/A	N/A	
	High Ambient Temp	N/A	N/A	Y	Y	Y	N/A	N/A	N/A	
Accessories	Door Ajar	/	/	Y	/	/	/	/	/	
	Caster	Y	Y	Y	Y	Y	N/A	N/A	N/A	
	Foot	Y	Y	Y	Y	Y	N/A	N/A	N/A	
	Porthole	Y	Y	Y	Y	Y	Y	Y	N/A	
	Drawers/Inner Doors	3/-	7/-	6/-	12/-	10/-	/	/	/	
	USB Interface	N/A	N/A	Optional	Optional	Optional	N/A	N/A	N/A	
Others	Temperature Recorder	N/A	N/A	Optional	Optional	Optional	N/A	N/A	N/A	
	Certification	CE	CE	CE	CE	CE	CE	CE	CE	

Product appearance and specifications are subject to change without notice



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