

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



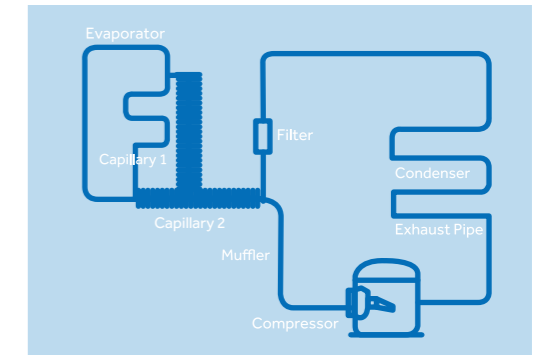
Shelf

-40°C Biomedical Freezer(Double Doors Type)

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



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

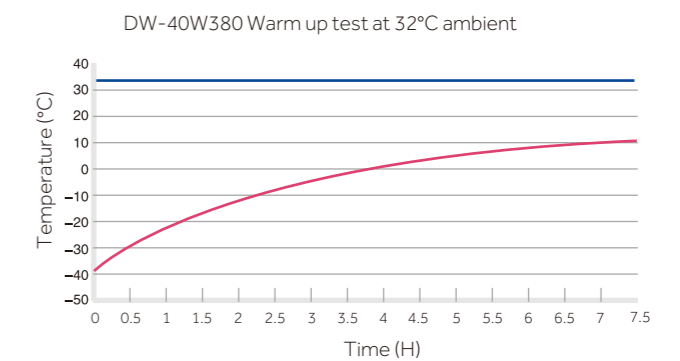
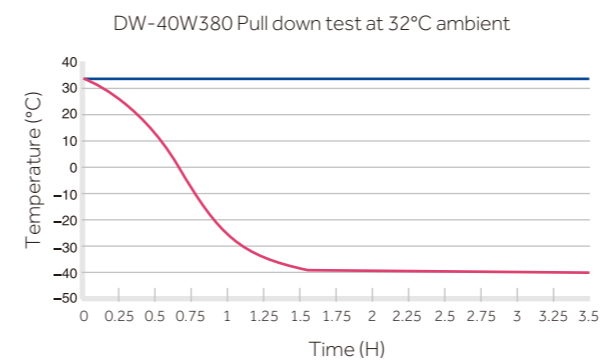
- Multiple malfunction alarms to detect high / low temperature, sensor error and power failure
- Two types of alarm indications: audible buzzing and visual flashing light

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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