

-86°C Ultra Low Temperature Freezer

Application

- Offers optimal temperature conditions that needed in the medical and laboratory fields.
- Suitable for scientific research institutes, metal processing, biological engineering, blood stations, hospitals, health and epidemic prevention systems, university laboratories, military enterprises, etc.

Limits of Authority Management

- According to the needs of equipment management, different user permission of the freezer controller can be allocated to three levels: administrator, operator and visitor.



Technical Features

- The frame consists of white coated antibacterial sheet steel, to ensure durable and corrosion resistant.
- Freezer inner side is made of SS304, allowing the perfect and easy cleaning.
- Easily to install or uninstall shelves, and the height of shelves can be adjusted in order to fit different size storage.
- 126mm Non HCFC polyurethane insulation foam, independent inner door and multi-layer sealing gasket can minimize the loss of refrigeration capacity.
- Fixable castors are designed for easily relocation.
- User friendly touch screen offers at a glance any control and command function, also allowing a quick access to any recorded data and working status.
- Already passed CE and RoHS certification.

Hinge :

Detachable inner door hinge for easy disassembly and replacement



Racks:

Proper size racks to maximize space usage.



Inner door magnet :

Strong magnetic magnet to ensure optimal sealing of door to freezer



Temperature sensor :

Fixed Temperature sensor position to ensure accuracy ; protection box to ensure the distance between sample and temperature sensor.

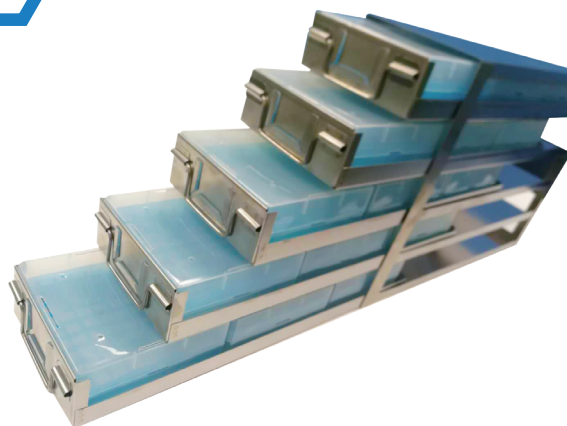


Shelves:

Adjustable and removable stainless steel shelves easy for setting different samples and clean the chamber; max. load 50Kg each



Options



Standard racks & boxes, one-stop equipment

Extra interior chamber temperature probe



LN₂/CO₂ backup system
Easy temperatures set to start or stop backup system

Manual and Auto models available

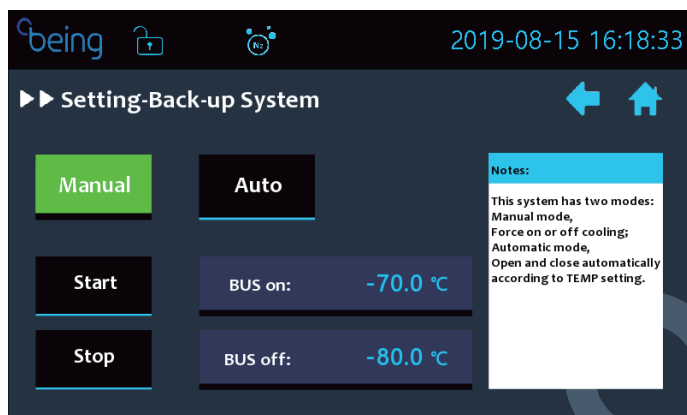


Chart recorder
≥7 days' data can be stored



Voltage stabilizer



Power input
160V-250V

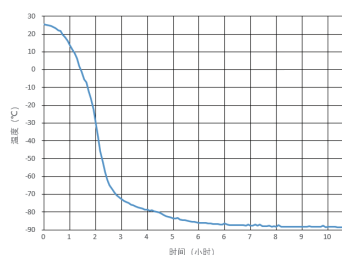
Power output
220V ~ ±4%

Over voltage
246V±4V

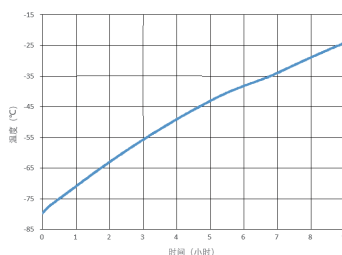
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Technical Specifications

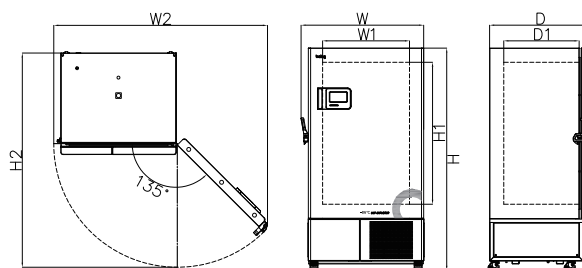
| Model | BDW-86L390 | BDW-86L490 | BDW-86L650 | BDW-86L770 |
|---------------------------------------|---------------------------------------|------------------|-------------------|--------------------|
| Temperature range [°C] | -50 - -86 | | | |
| Nominal capacity [Liters] | 390 | 490 | 650 | 770 |
| Exterior dimensions [mm] W x D x H | 909 x 797 x 1990 | 909 x 929 x 1990 | 1091 x 929 x 1990 | 1091 x 1053 x 1990 |
| Interior dimensions [mm] W1 x D1 x H1 | 589 x 505 x 1310 | 589 x 637 x 1310 | 780 x 637 x 1310 | 780 x 760 x 1310 |
| Door opening [mm] W2 x H2 | 589 x 1310 | 589 x 1310 | 780 x 1310 | 780 x 1310 |
| Insulation thickness [mm] | 126 | | | |
| Exterior finishing | White plastic coated galvanised steel | | | |
| Interior finishing | Stainless steel | | | |
| Inner door | 4 | | | |
| Shelves | 3 | | | |
| Levels | 4 | | | |
| Racks [boxes] | 16 (240) | 16 (320) | 20 (400) | 20 (500) |
| Ring latch hole | Yes | | | |
| Mechanical lock | Yes | | | |
| Data logger | Yes | | | |
| Battery | Yes | | | |
| Interior chamber temperature probe | Yes | | | |
| Vent port | Yes | | | |
| Gasket heating | Yes | | | |
| Controller type | Touch screen | | | |
| Refrigerant type | Non HCFC | | | |
| Voltage/Frequency [V / Hz] | AC220 / 50 | | | |
| Power [W] | 1500 | | | 1800 |
| Net Weight [kg] | 318 | 332 | 410 | 490 |
| High condenser temperature alarm | Yes | | | |
| Power failure alarm | Yes | | | |
| Temperature sensor failure alarm | Yes | | | |
| Low battery alarm | Yes | | | |
| High / Low temperature alarm | Yes | | | |
| Door open alarm | Yes | | | |
| Sound pressure [dB] | ≤ 53 | | | |
| Cooling time [h] | ≤ 6 | | | ≤ 8 |
| Temperature uniformity [°C] | ≤ 6 | | | |
| Certification | CE / RoHS | | | |



Temperature Decrease Curve



Temperature Rise After Power Off



Outline & Door Opening Dimension