



-86°C Ultra Low Temperature Freezer [DEEP FREEZER & REFRIGERATORS]



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.



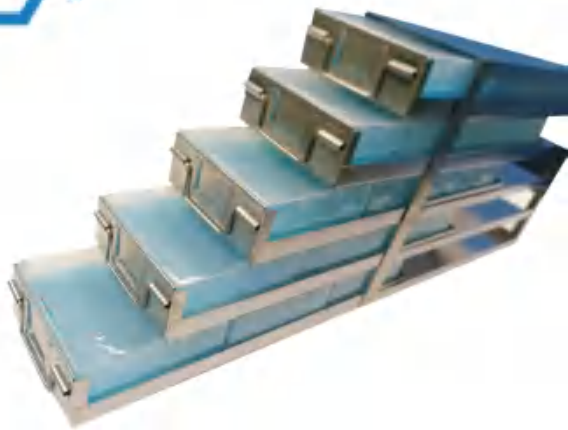
Hinge :
Detachable inner door hinge for easy disassembly and replacement

Inner door magnet :
Strong magnetic magne 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.

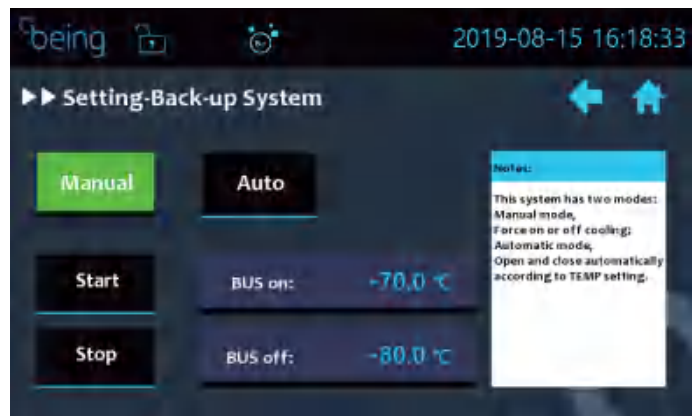
Racks:
Proper size racks to maximize space usage.

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



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

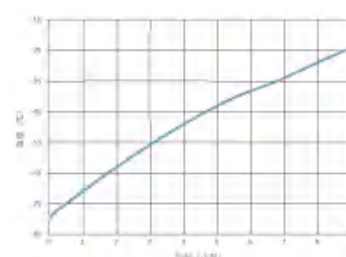
Action≤6S

Technical Specifications

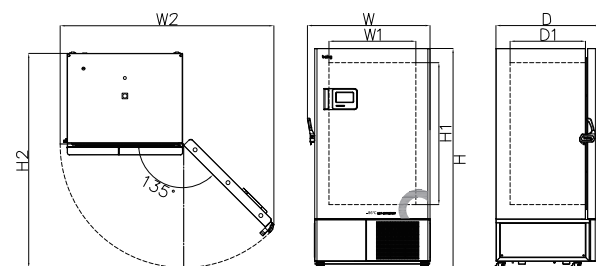
Model	KDW-86L390	KDW-86L490	KDW-86L650	KDW-86L770
Temperature range [°C]	-50 – -86			
Nominal capacity [Liters]	390	490	650	770
Exterior dimensions [mm] W x D x H	909 x 797 x 1990	909 x 929 x 1990	1091 x 929 x 1990	1091 x 1053 x 1990
Interior dimensions [mm] W1 x D1 x H1	589 x 505 x 1310	589 x 637 x 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 Cruve



Temperature Rise After Power Off



Outline & Door Opening Dimension