-86℃ Freezer

Display

Android screen

Functional area

Door handle

Test hole

Introduction:

The -86℃ Freezer is specifically designed for the long-term preservation of highly temperature-sensitive samples. It maintains sample viability and stability at extremely low temperatures, widely used in biobanking, pharmaceutical research, clinical medicine, and food safety.

Features

* The exterior is made of spray-coated cold-rolled steel plates, the interior is constructed with SUS304 stainless steel.
* The 10.1-inch smart full-touch Android screen displays precision at 0.1℃.
* Dual independent cooling systems ensure uninterrupted operation, if one system fails, the other continues to function normally. A single system can maintain long-term stable temperatures below -80℃.
* Five-layer door seal design ensures more uniform temperature distribution and enhanced energy efficiency.
* Featuring an integrated dual-lock design, it also includes electromagnetic locks, fingerprint locks, NFC, and other functions to ensure the security of stored items.
* Equipped with smart IoT capabilities, it allows users to monitor the freezer's status anytime via a computer-based platform.

Technical Parameters

Model	BDF-86V608BD
Capacity	608L
Environment Temp.	10~32℃
Temp. Range	-40~-86℃
Temp. Accuracy	0.1℃
Temp. Uniformity	≤5℃
Temp. Stability	≤6℃
Control System	Electronic temperature control
Display	10.1-inch full-touch Android screen
Sensor Type	PT100
Alarm	High/low temperature alarm, controller failure alarm, power outage alarm, door anomaly alarm, ambient temperature alarm, condenser blockage alarm, low battery alarm, voltage abnormality alarm
Refrigeration Type	Direct-cooling
Refrigerant	R600a/R1150/R14 , 255g
Defrosting Method	Manual
Condenser & Evaporator	Condenser: finned; copper tube Evaporator: internal coil; copper tube
Shelf	3/Stainless steel
Noise	≤60dB(A)
Outer Door	1/Cyclopentane integral foaming
Inner Door	4/Cyclopentane integral foaming
Consumption	1200W
Power Supply	Standard: 220V, 50Hz Optional: 220V, 60Hz; 110V, 50Hz(External transformer)
Caster	Universal casters*4 + leveling feet*2
Standard Accessory	RS485, USB port, test port*2(φ30mm), remote alarm
Inner Size(W*D*H)	620*755*1280mm
External Size(W*D*H)	1000*1147*1996mm
Package Size(W*D*H)	1150*1280*2210mm
Net Weight	308kg
Gross Weight	378kg