-86℃ Freezer

Display

Android screen

Functional area

Door handle

Test hole

Technical Parameters

Model	BDF-86V168BM
Capacity	168L
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, power failure alarm(72-hour duration), door open alarm, internal sensor fault alarm, condenser sensor fault alarm, ambient temperature sensor fault alarm, condenser clogging alarm, high ambient temperature alarm, power board fault alarm, power supply overpressure alarm, low battery alarm, battery disconnection alarm, reverse battery connection alarm
Refrigeration Type	Direct-cooling
Refrigerant	R600a/R1150/R14, 175g
Defrosting Method	Manual
Condenser & Evaporator	Condenser: microchannel condenser Evaporator: internal coil; copper tube
Shelf	2/Stainless steel
Noise	53dB(A)
Outer Door	1/Cyclopentane integral foaming
Inner Door	3/Cyclopentane integral foaming
Consumption	400W
Power Supply	Standard: 220V, 50Hz
	Optional: 220V, 60Hz; 110V, 60Hz
Caster	Universal casters*4 + leveling feet*2
Standard Accessory	RS485, USB port, test port*2(φ30mm), remote alarm
Optional Accessory	Barcode scanner, temperature recorder, liquid nitrogen backup system
Inner Size(W*D*H)	465*455*820mm
External Size(W*D*H)	844*807*1594mm
Package Size(W*D*H)	1000*970*1790mm
Net Weight	168kg
Gross Weight	221kg

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℃.
* The three-lock design, incorporating a door handle lock, a padlock, and an electromagnetic lock, ensures the security of stored items.
* Five-layer door seal design ensures more uniform temperature distribution and enhanced energy efficiency.
* Equipped with three standard login methods: fingerprint, NFC, and password, for user convenience.
* Equipped with smart IoT capabilities, it allows users to monitor the freezer's status anytime via a computer-based platform.
* It features a sample library system that aggregates and processes information such as sample inventory, outbound status, sample quantity, and type, making it convenient for users to query.