

-86°C Freezer (Inverter Type)



Introduction:

The -86°C 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

- * Internationally recognized inverter compressor, eco-efficient hydrocarbon refrigerant, fast, efficient cooling with low energy consumption.
- * External material is high-quality cold-rolled steel with eco-friendly ceramic coating and spray finishing, internal material is international standard SUS304 stainless steel.
- * Single-unit auto-cascade refrigeration system. Comprehensive audible and visual alarm system.
- * Password protection function prevents unauthorized adjustment of operating parameters.
- * Dual-lock design ensures the security of stored items.
- * Five-layer door gasket seals in cold air and prevents leakage, ensuring uniform temperature and improving energy efficiency.
- * Evaporator is made of high-efficiency heat transfer copper tube embedded in the inner wall for conduction cooling, saving internal space.

Technical Parameters

Model	BDF-86V168B	BDF-86V348B
Capacity	168L	348L
Environment Temp.	10~32°C	
Temp. Range	-40~-86°C	
Temp. Accuracy	0.1°C	
Temp. Uniformity	±4°C	
Temp. Stability	≤6°C	
Control System	Electronic temperature control	
Display	LED	
Alarm	High/low temperature alarm, power failure alarm(72h), controller failure alarm, door ajar alarm	
Sensor Type	PT1000	
Refrigeration Type	Direct-cooling	
Refrigerant	R600a/R1150/R14, 180g	R600a/R1150/R14, 285g
Compressor	International famous brand inverter compressor/1	
Defrosting Method	Manual	
Condenser & Evaporator	Condenser: microchannel condenser Evaporator: internal coil; copper tube	Condenser: finned copper tube condenser Evaporator: internal coil; copper tube
Shelf	2/Stainless steel	3/Stainless steel
Noise	53dB(A)	
Outer Door	1/Cyclopentane integral foaming	
Inner Door	3/Cyclopentane integral foaming	2/Cyclopentane integral foaming
Consumption	442W	400W
Power Supply	Standard: 220V, 50Hz Optional: 220V, 60Hz; 110V, 60Hz	
Caster	Universal casters*4 + leveling feet*2	
Standard Accessory	Test port*2(φ30mm)	
Optional Accessory	Temperature recorder, USB port, RS485, liquid nitrogen backup system	
Inner Size(W*D*H)	465*455*820mm	490*612*1150mm
External Size(W*D*H)	844*807*1594mm	869*989*1924mm
Package Size(W*D*H)	1000*970*1790mm	929*1049*2150mm
Net Weight	168kg	232kg
Gross Weight	221kg	300kg