

-86°C Freezer



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

- \* 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°C.
- \* 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°C.
- \* 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<br>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            | 800W                                                                                                                                                                                            |
| Power Supply           | Standard: 220V, 50Hz<br>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           | 380kg                                                                                                                                                                                           |