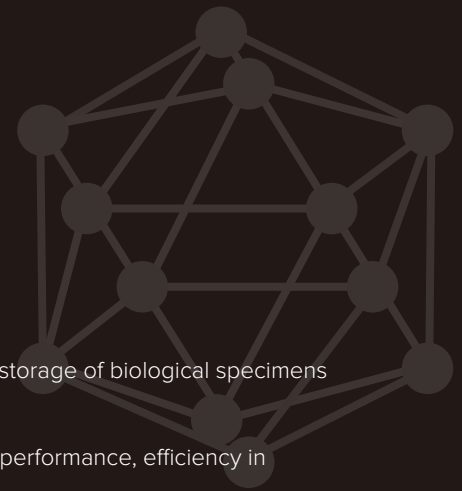


CryoSafe Series

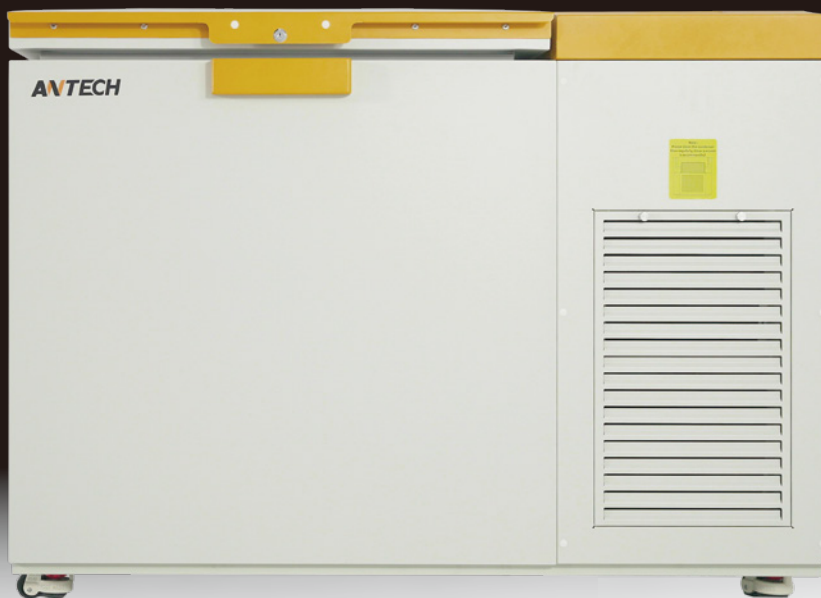
-150°C Cryogenic Freezer



CryoSafe series -150°C cryogenic freezers provide a safe, clean and convenient solution for storage of biological specimens at cryogenic temperature (-135°C or below).

CryoSafe series adopts innovative 2-compressor cascade cooling system, which is stable in performance, efficiency in energy consumption and quite in running.

Compared with liquid nitrogen freezers, CryoSafe series mechanical freezers are liquid nitrogen free, therefore, the inconvenience of LN₂ supply is avoided. There is also no contamination risk caused by LN₂.



▶ Touch screen controller



▶ USB port



▶ Door lock



▶ Switch for backup battery



▶ Remote alarm contact



LOW CO₂ EMISSIONS



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



POWER FAILURE ALARM



DIRECT COOLING



SAFETY DOOR LOCK

TC-320 Controller

- 7" LCD touch screen, convenient to operate
- Large display of chamber temperature, easy observation at distance
- Temperature data storage & USB download, temperature curve display
- Even & alarm information storage and USB download
- Password protection preventing unauthorized operations



PERFORMANCE

- Optimized cascade cooling system with stable performance and high efficiency
- SECOP brand compressor & EBM brand blower
- High density polyurethane forming for insulation
- Forming inner doors for better insulation

ERGONOMIC DESIGN

- 7-inch touch screen for easy operation
- Large display of chamber temperature, easy observation at distance
- Adjustable stainless steel shelves to load different size products
- Pressure release port for easy opening of outer door
- Ultra-quiet design reduces noise level

ENVIRONMENT FRIENDLY

- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and less carbon emission

ALARMS

- High temperature
- Low temperature
- High ambient temperature
- Door ajar
- Power failure
- Sensor error

SAFETY

- Temperature data storage & USB download, temperature curve display
- Even & alarm information storage and USB download
- Password protection for touch screen, preventing unauthorized operation
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts
- Optional LN2 backup system

-150°C Cryo Freezer



| Model | | MDF-150C138 | MDF-150C226 |
|-------------------------------|-----------------------------------|-----------------------------|-----------------------------|
| Basic | Type | Chest | Chest |
| | Cooling technology | 2-compressor cascade system | 2-compressor cascade system |
| | Temperature setting range (°C) | -125 ~ -150 | -125 ~ -150 |
| | Climate type | N | N |
| | Capacity (L) | 138 | 226 |
| | 81/100-place box | 96 | 160 |
| | Cooling type | Direct | Direct |
| | Defrost type | Manual | Manual |
| | Door entrance limit (≥mm) | 780 | 885 |
| | Compressor | SECOP x 2 | SECOP x 2 |
| | Control | Controller | 7" touch screen |
| Temperature display accuracy | | 0.1 | 0.1 |
| Power | Power supply (V/Hz) | 220/50, 220/60 | 220/50, 220/60 |
| | Rated power (W) | 1438W, 1550W | 1548W, 1672W |
| | Rated current (A) | 7.4A, 7.71A | 7.65A, 7.98A |
| Alarm | Visible/audible alarm | ● | ● |
| | High/Low temperature | ● | ● |
| | Power failure | ● | ● |
| | Sensor failure | ● | ● |
| | Door ajar | ● | ● |
| Accessories | Safety door lock | ● | ● |
| | Inner door | 2 | 2 |
| | Test access port | Φ19mm x 2 | Φ19mm x 2 |
| | Freezer rack | ○ | ○ |
| | Rack model | CFC-8-2 | CFC-8-2 |
| | Rack Qty | 12 | 20 |
| | Casters | 4 | 4 |
| LN ₂ backup system | ○ | ○ | |
| Material | Exterior | Pre-coated steel | Pre-coated steel |
| | Interior | Stainless steel | Stainless steel |
| | Insulation | Polyurethane | Polyurethane |
| | Cabinet insulation thickness (mm) | 150 | 150 |
| | Outer door thickness (mm) | 105 | 105 |
| Weight & size | Net weight (kg) | 190 | 230 |
| | Gross weight (kg) | 230 | 280 |
| | Internal W×D×H (mm) | 630×440×500 | 780×580×500 |
| | External W×D×H (mm) | 1360×795×1005 | 1510×935×1005 |
| | Packing W×D×H (mm) | 1450×860×1165 | 1600×1000×1165 |
| | Volume (m ³) | 1.45 | 1.86 |

● Basic equipment ○ Optional / Not available