

# -86°C

# Ultra-low Freezer

## EcoCool Series

Model:



## Applications

The -86°C ultra-low temperature freezers are designed for the long-term preservation of viruses, germs, vaccines, biological tissues and organs, special food, medicines, reagents, etc.

## Features

- Accurate temperature controller, setting temperature range of -40 to -86°C
- 7-inch touch screen display, accuracy of 0.1 °C.
- Suggested ambient temperature: +10 to 32°C.
- Stainless steel inner chamber for friendly use and easy cleaning.
- Brand compressor to ensure excellent stability of the cooling system.
- Eco-friendly and energy-saving series with R170 & R290 green HC refrigerant and cascade cooling system.

## Security

- Safety door lock to prevent unauthorized access.
- 72h built-in backup battery to power the controller and save temp. data when power failure or system error.
- Visual and audible alarm system: High/low temperature, sensor failure, controller error, etc.
- Power failure protection: turn-on delay of the cooling system after power failure.
- Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

## Humanized design

- Adjustable shelves for easy storage.
- Casters with stoppers for easy moving and fixation.
- Special-designed service-free drainage system.



## Specifications

| Model NO.                                 |   |
|---|---|
| <b>Main Specifications</b>                |   |
| Temperature Range                         | -40 ~ -86 °C                                    |
| Ambient Temperature                       | 10~32°C   |
| Capacity (L/Cu. Ft.)                      | 588 / 20.77                                     |
| Noise                                     | 53 dB   |
| Cold Rack Max. Loading Capacity (pcs)     | 255D Rack / 16                                  |
| 2' Cold Box Max. Loading Capacity (pcs)   | 400   |
| 0.5~2ml Vials Max. Loading Capacity (pcs) | 40,000  |
| <b>Control and Power</b>                  |   |
| Controller / Display                      | Microprocessor / 7" Touch Screen                |
| Sensor                                    | PTC   |
| Voltage and Frequency                     | 220V±10%, 50/60Hz                               |
| Power                                     | 690 W   |
| Electric Current                          | 8.33 A  |
| Power Consumption (kWh/24h)               | 14.85 (-81°C); 13.07 (-75°C)                    |
| <b>Audible and Visual Alarms</b>          |   |
| High / Low Temp. Alarm                    | Yes   |
| Power Failure Alarm                       | Yes, 72h  |
| Sensor Error Alarm                        | Yes   |
| Controller Error Alarm                    | Yes   |
| Door Ajar Alarm                           | Yes   |
| Abnormal Voltage Alarm                    | Yes   |
| Abnormal Ambient Temp. Alarm              | Yes   |
| Battery Error Alarm                       | Yes   |
| Condenser Error / Filter Net Clean Alarm  | Yes   |
| <b>Refrigeration</b>                      |   |
| Refrigeration / Defrost Type              | Direct Cooling / Manual                         |
| Compressor (Brand/pcs)                    | SECOP / 2                                       |
| Refrigerant / Weight (kgs)                | R290 / 130g, R170 / 68g                         |
| <b>Cabinet</b>                            |   |
| External / Internal Door (pcs)            | Foamed Solid Door x 1 / Foamed Solid Door x 2   |
| Adjustable Shelf (pcs)                    | 3   |
| Exterior / Interior Cabinet Material      | Coated Steel / Stainless Steel                  |
| Insulation Material                       | PURF (δ100mm) and Vacuum Insulation Panel (VIP) |
| Door Lock                                 | Yes   |
| Test Hole (pcs)                           | 2   |
| Castors (pcs)                             | 4   |
| <b>Accessories</b>                        |   |
| USB Data Download Port                    | Yes   |
| Remote Alarm Port                         | Yes   |
| RS485 Port                                | Yes   |
| Temperature Datalogger                    | Optional  |
| Temperature Printer                       | Optional  |
| Temperature Chart Recorder                | Optional  |
| Protective Gloves                         | Optional  |
| LN2/CO2 Backup System                     | Optional  |
| <b>Dimensions</b>                         |   |
| Interior Dimensions (W×D×H)               | 606×738×1310 mm                                 |
| Exterior Dimensions (W×D×H)               | 891×1155×1995 mm                                |
| Packing Dimensions (W×D×H)                | 975×1185×2200 mm                                |
| Net / Gross Weight                        | 335 / 395 kgs                                   |
| Package                                   | Plywood box with pallet                         |

\* Due to continuous product upgrades, the above specifications are for reference only. For the latest specifications, please contact us.