

# -86°C Ultra-low Temperature Freezer

*Targeted Refrigeration • Fast Refrigeration  
Energy-saving & Environmentally Friendly  
Awarded with the Second Prize under State  
Technological Invention Award*



## EVO-U35-ULTA



### Precise Temperature Control and Safe Storage

Microprocessor-based temperature controller, -40°C~ -86°C can be set freely with display accuracy at 0.1°C.

### Visual & Audio Alarm system

High/low temperature alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, communication failure alarm etc.

### Human-oriented

The rotating handle facilitates door opening;

The two-door design including the inner door and the outer door can lock cool air inside the cabinet and ensure thermal insulation for a long period.

### Energy-saving & Environmentally Friendly

Awarded with China Certificate for Energy Conservation Product, certificate numbers: CQC18702198375;

Awarded with China Certificate for Ecolabelling Products, certificate numbers: CQC18702198376.



### High-precision Temperature Control

- Digital temperature display, simultaneously display the chamber temperature, power supply voltage, ambient temperature and other parameters etc. The running status is clearly displayed;
- The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet within a range from -40°C to -86°C.



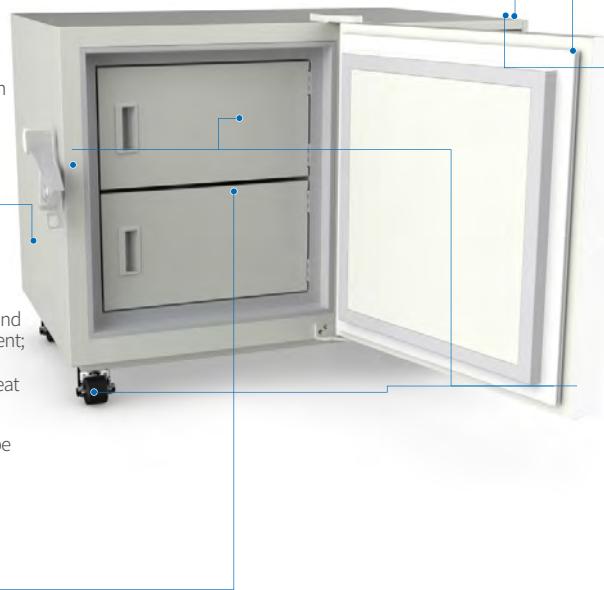
### Refrigeration System

- The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
- The large finned condenser with a space between fins≤2mm, providing effective heat dissipation;
- Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost.



### Supplies for Cryopreservation

Freezer racks/boxes for cryopreservation are optional.



### Thermal Insulation System

- The insulated foamed outer door with seal design prevents loss of cooling capacity effectively;
- The six sides of the cabinet are made from high performance vacuum insulation material, greatly improving thermal insulation performance.



### Security System

- The perfect audible & visual alarm system: high/low temperature, sensor failure, door ajar, power failure, low battery etc;
- The turn-on delay and stopping interval protection can ensure reliable operation;
- The keyboard lock and password protection can prevent any adjustment of operation without permission.



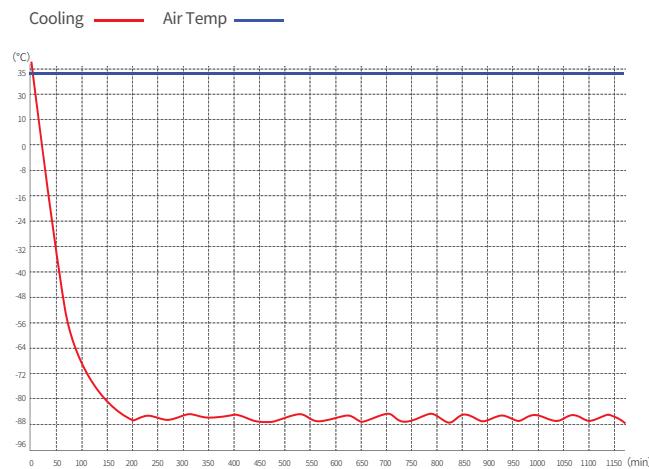
### Human-oriented

- The door with new-type assisting door handle to be opened easily;
- Door handle with lock for safety operation.
- 304 Stainless steel interior, low temperature resistance anti-corrosion for long service life and easy cleaning;
- Universal wheels easy for movement and fixation.

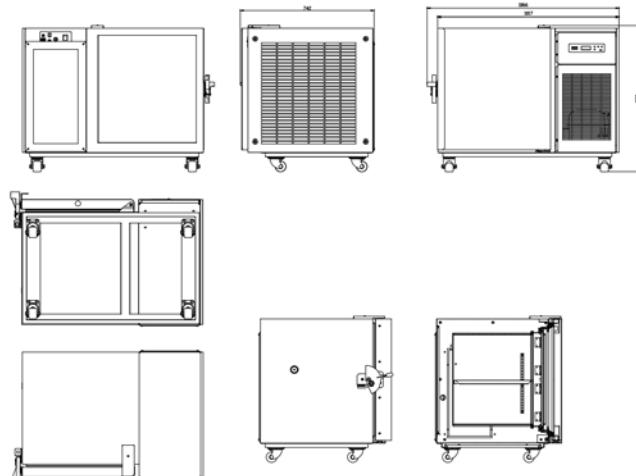
## Scope of Application

Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

## Performance Data / Cooling Curve



## External Dimension



## Specification Chart

| <b>-86°C Ultra-low Temperature Freezer</b> |  |
|--|--|
| <b>Model</b>                               | EVO-U35-ULTA   |
| Cabinet Type                               | Upright  |
| Capacity(L)                                | 100  |
| Internal Size(W*D*H)mm                     | 450*450*514  |
| External Size(W*D*H)mm                     | 1066*742*820   |
| Package Size(W*D*H)mm                      | 1230*833*991( Packed in ordinary buckle cases)                                 |
| NW/GW(Kgs)                                 | 131/175(wood packing)  |
| <b>Performance</b>                         |  |
| Temperature Range                          | -40～-86°C  |
| Ambient Temperature                        | 16-32°C  |
| Cooling Performance                        | -86 °C   |
| Climate Class                              | N  |
| Controller                                 | Microprocessor   |
| Display                                    | Digital display  |
| <b>Refrigeration</b>                       |  |
| Compressor                                 | 1pc  |
| Cooling Method                             | Direct cooling   |
| Defrost Mode                               | Manual   |
| Refrigerant                                | Mixture gas  |
| Insulation Thickness(mm)                   | L: 91.5, R: 115  |
| <b>Construction</b>                        |  |
| External Material                          | Cold rolled steel sheet  |
| Inner Material                             | Stainless steel  |
| Shelves                                    | 1(stainless steel)   |
| Door Lock with Key                         | Yes  |
| Padlock                                    | Yes  |
| Access Port                                | 1pc. Ø 25 mm   |
| Casters                                    | 4  |
| Data Logging/Interval/Recording Time       | USB/Record every 10 minutes / 12 months  |
| Backup Battery                             | Yes  |
| <b>Alarm</b>                               |  |
| Temperature                                | High/Low temperature,High ambient temperature, Condenser overheating           |
| Electrical                                 | Power failure , Low battery  |
| System                                     | Sensor failure, Door ajar, Built-in USB datalogger failure,Communication error |
| <b>Electrical</b>                          |  |
| Power Supply(V/Hz)                         | 110/60   |
| <b>Accessories</b>                         |  |
| Standard                                   | RS485,Remote alarm contact   |
| Options                                    | Chart recorder, CO2 backup system  |

\*The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

\*There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.