



# -40°C

# Biomedical Freezer

Model: MDF-40V328E



## Applications

The -40°C medical deep freezers are designed to store vaccines, blood plasma, reagents, and many other biological materials which are widely used in research institutions, clinics, and medical fields.

## Features

- Microprocessor control, ensure good inner temperature uniformity, accuracy is 0.1°C
- HC green refrigerant is energy-saving and environmentally friendly.
- Wide available voltage range: 220V±10%.

## Security

- Safety door lock and controller password to prevent unauthorized access.
- Built-in backup battery to display temperature and alarms when power failure or system error.
- Visual and audible alarm system.
- Inner doors to prevent cold air from leaking out when the outside door is opening.
- 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.



## Specifications

| Model NO.                        | MDF-40V328E            |
|----------------------------------|------------------------|
| <b>Main Specifications</b>       |                        |
| Temperature Range                | -20~-40°C              |
| Ambient Temperature              | 10~32 °C               |
| Capacity (L/Cu. Ft.)             | 328 / 11.58            |
| Interior Dimensions (W×D×H) mm   | 508×455×1393           |
| Exterior Dimensions (W×D×H) mm   | 673×676×1886           |
| Weight                           | 113 kgs                |
| Noise                            | 48 dB                  |
| <b>Control and Power</b>         |                        |
| Controller                       | Microprocessor         |
| Display                          | Digital                |
| Sensor                           | NTC                    |
| Voltage and Frequency            | 220V±10%, 50/60Hz      |
| Power                            | 330 W                  |
| Electric Current                 | 1.54 A                 |
| Power Consumption (kWh/24h)      | 6.5                    |
| <b>Audible and Visual Alarms</b> |                        |
| High / Low Temp. Alarm           | Yes                    |
| Power Failure Alarm              | Yes, 8h                |
| Sensor Error Alarm               | Yes                    |
| Controller Error Alarm           | Yes                    |
| Door Ajar Alarm                  | Yes                    |
| <b>Refrigeration</b>             |                        |
| Refrigeration Type               | Direct Cooling         |
| Defrost                          | Manual                 |
| Compressor (Brand/pcs)           | CUBIGEL / 1            |
| Refrigerant / Weight             | R290 / 78g             |
| <b>Cabinet</b>                   |                        |
| Door (pcs)                       | Foamed Solid Door / 1  |
| Inner Doors (pcs)                | Coated Steel Door / 5  |
| Adjustable Shelves (pcs)         | 4                      |
| Interior Cabinet Material        | Coated Steel           |
| Exterior Cabinet Material        | Coated Steel           |
| Insulation Material              | PURF (δ82.5mm)         |
| Door Lock                        | Yes                    |
| Test Hole (pcs)                  | 1                      |
| Castors (pcs)                    | 4                      |
| <b>Accessories</b>               |                        |
| Remote Alarm Port                | Yes                    |
| USB Data Download Port           | Optional               |
| RS485 Port                       | Optional               |
| Temperature Datalogger           | Optional               |
| Temperature Printer              | Optional               |
| <b>Shipping</b>                  |                        |
| Package                          | Carton box with pallet |
| Shipping Weight                  | 133 kgs                |
| Shipping Size (W×D×H) mm         | 760×760×2000           |
| Shipping Volume                  | 1.16 CBM               |

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