# -40°C FREEZER



## -40°C FREEZER

Innovative design and highly efficient for the user to use them for storing laboratory materials such as vaccines, biological samples, enzymes and protein samples. Excellent temperature uniformity, reliable environment monitoring and rust free construction supports this product to become an ideal choice.

Used in Routine Cold Storage, Laboratories, Biologicals, Pharmaceuticals, Clinical, Research.

Also known as Laboratory ULT freezer, ULT Freezer, Ultra-low Freezer.

### ULT23 -10°C TO -40°C ULTRA LOW TEMPERATURE FREEZER

LED digital display and increment at 0.1°C

Permanently lubricated cooling fan for safety and longevity

Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance

High density CFC-Free urethane foam insulation

Build-in lock with safety

Lockable caster design

Chemically stable, CFC -free, commercially available and environmentally safe refrigerant

Optimized refrigeration system designed to maximize cooling effect and temperature uniformity

Visible and Audible alarm

Corrosion proof cabinet interior design

Power failure protect: the device would be attack by the high current when all devices restart simultaneously, the start-delay function would protect device from the damage



#### **SPECIFICATIONS**

| Model                | ULT23-105                       | ULT23-485        | ULT23-268           | ULT23-278       |  |  |
|----------------------|---------------------------------|------------------|---------------------|-----------------|--|--|
| Capacity             | 105 L                           | 485 L            | 268 L               | 278 L           |  |  |
| Temperature Range    | -10°C                           | -10°C to -40°C   |                     | -30°C to -40°C  |  |  |
| Ambient Temperature  | 10°C ~ +32°C                    |                  |                     |                 |  |  |
| Defrosting           | Manual                          |                  |                     |                 |  |  |
| Cooling Type         | Direct Cooling                  |                  |                     |                 |  |  |
| Insulation Material  | PURF                            |                  |                     |                 |  |  |
| Refrigerant          | HC                              | HC-R290          |                     | R290            |  |  |
| Internal Dimension   | 480x380x665 mm                  | 1455x525x665 mm  | 508x455x1137 mm     | 480x415x1460 mm |  |  |
| Overall Dimension    | 680x580x935 mm                  | 1655x755x915 mm  | 673x676x1630 mm     | 659x600x1694 mm |  |  |
| Package Size         | 740x680x970 mm                  | 1750x875x1050 mm | 770x770x1804 mm     | 710x650x1800 mm |  |  |
| Interior             | Stainl                          | ess steel        | Color sprayed steel |                 |  |  |
| Exterior             | Color sprayed steel             |                  |                     |                 |  |  |
| Controller           | Microprocessor, Digital display |                  |                     |                 |  |  |
| Sensor               | NTC                             |                  |                     |                 |  |  |
| Compressor Brand/QTY | CUBIGEL/1                       |                  |                     |                 |  |  |
| Condenser            | Wire tube                       |                  |                     | Inside foaming  |  |  |
| Noise Level          | 50 db                           | 55 db            | 48 db               | 50 db           |  |  |

| Alarm                              | High/low temperatur                | High/low temperature, Power off, Sensor malfunction, Temperature controller malfunction |             |   |  |
|------------------------------------|------------------------------------|---|-------------|---|--|
| Standard Accessories               | Foot, Castor, Test<br>hole 1/25 mm | Foot, Castor  | Caster      | Foot, Castor, Inner<br>door-7drawers      |  |
| Weight (Net/Gross)                 | 62/70 kg                           | 124 /138 kg   | 98.5/115 kg | 110/120 kg                                |  |
| Rated Power                        | 120 W                              | 295 W   | 300 W       | 185 W                                     |  |
| Power Consumption (<br>Kwh/24hrs ) | 1.65                               | 3.45  | 4           | 1.5                                       |  |
| Rated Current A                    | 1.05                               | 2.45  | 1.6 A       | 1.5 A                                     |  |
| Power Supply                       | 220\                               | 220V, 50Hz  |             | 220 V, 50 Hz                              |  |
| Optional Accessories               | -                                  | Test hole 1/25 mm   | Test hole   | USB data logging,<br>Temperature recorder |  |
| Drawers/Shelves                    | -                                  | -   | Shelves     | Drawers                                   |  |

| Model                              | ULT23-328  | ULT23-528  | ULT23-936  |  |  |  |
|------------------------------------|--|--|--|--|--|--|
| Capacity                           | 328 L  | 528 L  | 936 L  |  |  |  |
| Temperature Range                  | -30°C to -40°C   | -20°C to -40°C   | -25°C to -40°C   |  |  |  |
| Ambient Temperature                | 10°C ~ +32°C   |  |  |  |  |  |
| Defrosting                         | Manual   |  |  |  |  |  |
| Cooling Type                       | Direct Cooling   |  |  |  |  |  |
| Insulation Material                | PURF   |  |  |  |  |  |
| Refrigerant                        | I  | R290   |  |  |  |  |
| Internal Dimension                 | 508x455x1393 mm  | (651x631.5x635)x2 mm   | 1000x700x1335 mm   |  |  |  |
| Overall Dimension                  | 673x676x1886 mm  | 900x818.5x1828 mm  | 1304x1000x2017 mm  |  |  |  |
| Package Size                       | 770x770x2040 mm  | 997x912x1982 mm  | 1350x1080x2150 mm  |  |  |  |
| Interior                           | Color sp   | Color sprayed steel  |  |  |  |  |
| Exterior                           | Color sprayed steel  |  |  |  |  |  |
| Controller                         | Microprocessor, Digital display  |  |  |  |  |  |
| Sensor                             |  | NTC  |  |  |  |  |
| Compressor Brand/QTY               | CUBIGEL/1  | CUBIGEL/1 SEC  |  |  |  |  |
| Condenser                          | Wire tube  | Copper tube  | Copper tube and finned   |  |  |  |
| Noise Level                        | 50 db  | 55 db  | 50 db  |  |  |  |
| Alarm                              | High/low temperature,<br>Power failure, Sensor<br>malfunction, Temperature<br>controller malfunction, Door<br>ajar | High/low temperature, Power<br>failure, Sensor malfunction,<br>Temperature controller<br>malfunction | High/low temperature, Power<br>failure, Sensor malfunction, Filter<br>screen check, Temperature<br>controller malfunction, Low<br>battery, Condenser clean, High<br>ambient temperature, Door ajar |  |  |  |
| Standard Accessories               | Foot, Castor, Inner door,<br>Remote alarm port   | Foot, Castor, Inner door-9<br>drawerx2, Test hole 2/25 mm,<br>Remote alarm port                      | Castor, Inner door, Test hole 1/18 mm, Remote alarm port, USB port   |  |  |  |
| Weight (Net/Gross)                 | 113/131 kg   | 160/180 kg   | 310/330 kg   |  |  |  |
| Rated Power                        | 300 W  | 345 W  | 1000 W   |  |  |  |
| Power Consumption (<br>Kwh/24hrs ) | 4  | 6.7  | 14.5   |  |  |  |
| Rated Current A                    | 1.6 A  | 2.9 A  | 5.8 A  |  |  |  |
| Power Supply                       |  | 220 V, 50 Hz   |  |  |  |  |
| Optional Accessories               | Test hole, USB data logging,<br>Temperature recorder   | USB data logging, Temperature recorder   |  |  |  |  |
| Drawers/Shelves                    |  | Shelves  |  |  |  |  |





#### **Biozef**