

# PHARMA & LAB REFRIGERATOR

## Ultra Low Vertical ULT Freezer (-86°C)

The Ultra Low Vertical ULT Freezer is specially designed for long-term storage of biological samples, vaccines, blood components, enzymes, viruses, tissues, and other research materials requiring extreme low temperatures. With advanced refrigeration technology, powerful insulation, and precise temperature control, it ensures sample safety and reliability for laboratories, hospitals, biobanks, and research institutes.

### Technical Specifications

- Temperature Range: -40°C to -86°C (adjustable)
- Cooling System: Cascade refrigeration with CFC/HCFC-free refrigerants
- Controller: Microprocessor-based digital temperature controller with large LED/LCD display
- Alarm System: Audio-visual alarms for high/low temperature, power failure, door open, and system error

### Construction:

- Exterior: Powder-coated steel
- Interior: Stainless Steel for hygiene & durability
- High-density polyurethane (PUF) insulation (≥120 mm) for maximum cold retention

### Door System:

- Single or double solid doors (vertical) with vacuum-sealed gaskets
- Lockable handle with key for safety
- Inner doors (compartmentalized) to minimize temperature loss

**Capacity Options:** Available in various sizes from 100 Liters to 800 Liters (customizable on request)

**Mobility:** Heavy-duty castor wheels with brakes

**Data Logging:** USB interface / optional remote monitoring system

**Power Supply:** 220–240V, 50/60Hz AC (other options available)

**Certifications:** ISO 9001, ISO 13485, ISO 14001, CE Certified

### Key Features

- Ultra-low storage at -86°C for maximum sample protection
- Cascade refrigeration system with eco-friendly refrigerants
- Energy efficient compressor with low noise operation
- Multiple safety protections with password-protected controller
- Backup options available: CO<sub>2</sub> backup / LN<sub>2</sub> backup (optional)

| Item Code  | Capacity (Ltr.) | External (Dimension) | Internal (Dimension) | No. of Shelves |
|------------|-----------------|----------------------|----------------------|----------------|
| JW-ULT-437 | 437             | 790x1100x1950        | 460x720x1310         | 3              |
| JW-ULT-567 | 567             | 920x1100x1950        | 590x720x1310         | 3              |
| JW-ULT-707 | 707             | 1070x1100x1950       | 740x720x1310         | 3              |

