

# -25°C Laboratory Freezer

The professional LabSafe series lab freezer, specifically developed to be used by laboratories, hospitals, and pharmacies, ensure optimal storage conditions for temperature sensitive medical products and biological material, meeting the highest requirement for accurate controlled cold storage. High density solid door (forming door) is used for excellent insulation. LabSafe freezers are compliant with main international requirements, including CE, UL, etc.

## TC-200 Controller



Microprocessor electronic controller for LabSafe series laboratory freezers, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature control.

### PERFORMANCE

- Intelligent microprocessor controller TC-200
- Dual sensor system: display sensor in aluminum block to simulate real product temperature. Control sensor in air for accurate control.
- Optimized direct cooling system & manual defrost
- Rapid temperature recovery after door opening

### ERGONOMIC DESIGN

- Self-close door for convenient operation
- Left/right side open revisable door to suit various space
- Ultra-quiet design reduces noise level
- LED light for convenient operation

### ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and carbon emission

### ALARMS

- High temperature
- Low temperature
- Door ajar
- Power failure
- Sensor error
- Low battery

### SAFETY

- Build-in data storage and USB port for download
- Quick check of max/min temperature in 24 hours
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts



- ▶ **Safety door lock**  
Preventing unauthorized access



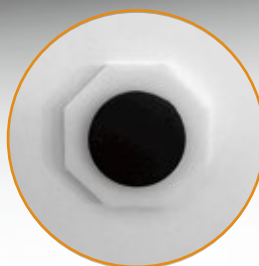
- ▶ **USB port**  
Temperature data storage and download



- ▶ **Adjustable shelves**  
Convenient storage of different size products



- ▶ **Dual sensor system**  
Product sensor in aluminum block to simulate real product temperature;  
Control sensor in air for accurate control.



- ▶ **Access port**  
For easy access of additional temperature probe



- ▶ **Remote alarm contact**  
Sending signal to a remote alarm system

# LabSafe Series

## -25°C/ Desktop/ MDF-25U60

ANTECH desktop lab freezer MDF-25U60 is ideal for small medical practices, pharmacies, and labs. It is a great choice when you need a small lab freezer for specialized medicines, vaccines or lab materials. It is perfectly suited for additional storage where space is a consideration. The MDF-25U60 is designed for the most rigorous life science, research, healthcare and clinical applications.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.



▼ MDF-25U60



▼ With Stacking Kits



CFC /HCFC  
FREE



USB PORT



POWER FAILURE  
ALARM



DOOR AJAR A  
LARM



REVERSIBLE  
DOORS



STACKABLE  
DESIGN

| MODEL                          | MDF-25U60                       |
|--------------------------------|---------------------------------|
| Temperature range (°C)         | -10~-25                         |
| Capacity (L)                   | 65                              |
| External dimensions W×D×H (mm) | 510×590×660                     |
| Shelves (pcs)                  | 2                               |
| Data storage & USB port        | •                               |
| Power supply                   | 220V/50Hz; 220V/60Hz; 120V/60Hz |

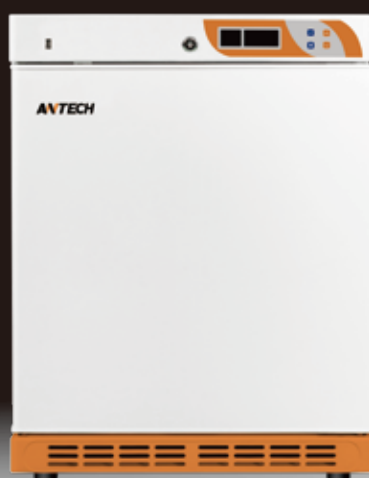
# LabSafe Series

## -25°C/Under-counter/ MDF-25U150

ANTECH undercounter lab freezer MDF-25U150 is ideal for small medical practices, pharmacies, and labs. Its height is designed to match laboratory table and optimized usage of limited space. Despite a compact freezer, the functions are complete for medical and laboratory applications, including data storage and USB port for download, high/low temperature alarm, door open alarm, power failure alarm, remote alarm contact, LED light etc. Therefore, MDF-25U150 meets the most rigorous requirements of healthcare and scientific research.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.

MDF-25U150 is a stackable freezer (using Antech stacking kits) to install in a limited space. You can order with various combinations with flexibility for your specific demand.



▼ MDF-25U150

▼ With Stacking Kits



NATURAL REFRIGERANT



USB PORT



HIGH/LOW TEMPERATURE ALARM



DOOR AJAR A LARM



REVERSIBLE DOORS



STACKABLE DESIGN

| MODEL                          | MDF-25U150                      |
|--------------------------------|---------------------------------|
| Temperature range (°C)         | -10 ~ -25                       |
| Capacity (L)                   | 120                             |
| External dimensions W×D×H (mm) | 600×680×812                     |
| Shelves (pcs)                  | 3                               |
| Data storage & USB port        | •                               |
| Power supply                   | 220V/50Hz; 220V/60Hz; 120V/60Hz |

# LabSafe Series

## -25°/MDF-25U270/400/600

LabSafe series upright lab freezers are used to store medicines, vaccines or lab materials in pharmacies, hospitals, clinics and labs. Product temperature sensor is put into aluminum block to simulate real product temperature. Access port is available for additional temperature probe.

These units use environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.

Temperature data storage and USB port are supplied as standard. A pdf format file including temperature curve and temperature data can be downloaded. A quick check of maximum and minimum temperature record in previous 24 hours is available, making the job much easier for operators. LED light for convenient operation.

▼ MDF-25U270



▼ MDF-25U600



NATURAL  
REFRIGERANT



USB PORT



HIGH/LOW  
TEMPERATURE ALARM



POWER FAILURE  
ALARM



DOOR AJAR A  
LARM



REVERSIBLE  
DOORS

| MODEL                          | MDF-25U270                          | MDF-25U400                          | MDF-25U600                          |
|--------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Temperature range (°C)         | -10~-25                             | -10~-25                             | -10~-25                             |
| Capacity (L)                   | 280                                 | 380                                 | 550                                 |
| External dimensions W×D×H (mm) | 600×560×1585                        | 600×680×1840                        | 775×700×1945                        |
| Shelves (pcs)                  | 5                                   | 6                                   | 6                                   |
| Data storage & USB port        | •                                   | •                                   | •                                   |
| Power supply                   | 220V/50Hz<br>220V/60Hz<br>120V/60Hz | 220V/50Hz<br>220V/60Hz<br>120V/60Hz | 220V/50Hz<br>220V/60Hz<br>120V/60Hz |

-25°C

# LabSafe series



|                     | Model                    | MDF-25U60            |        |        | MDF-25U150          |        |        | MDF-25U270          |        |        | MDF-25U400          |        |        | MDF-25U600          |        |        |
|---------------------|--------------------------|----------------------|--------|--------|---------------------|--------|--------|---------------------|--------|--------|---------------------|--------|--------|---------------------|--------|--------|
| Main specifications | Type                     | Desktop              |        |        | Under-counter       |        |        | Upright             |        |        | Upright             |        |        | Upright             |        |        |
|                     | Temperature range (°C)   | -10~-25              |        |        | -10~-25             |        |        | -10~-25             |        |        | -10~-25             |        |        | -10~-25             |        |        |
|                     | Climate type             | N                    |        |        | N                   |        |        | N                   |        |        | N                   |        |        | N                   |        |        |
|                     | Capacity (L)             | 65                   |        |        | 120                 |        |        | 280                 |        |        | 380                 |        |        | 550                 |        |        |
|                     | Internal W×D×H (mm)      | 410×450×420          |        |        | 500×540×570         |        |        | 500×450×1290        |        |        | 500×520×1550        |        |        | 645×530×1645        |        |        |
|                     | External W×D×H (mm)      | 510×590×660          |        |        | 600×680×812         |        |        | 600×560×1585        |        |        | 600×680×1840        |        |        | 775×700×1945        |        |        |
|                     | Weight (KGs)             | 31                   |        |        | 41                  |        |        | 61                  |        |        | 74                  |        |        | 95                  |        |        |
|                     | Insulation (mm)          | 50                   |        |        | 50                  |        |        | 50                  |        |        | 50                  |        |        | 60                  |        |        |
|                     | Cooling type             | Direct cooling       |        |        | Direct cooling      |        |        | Direct cooling      |        |        | Direct cooling      |        |        | Direct cooling      |        |        |
|                     | Defrost                  | Manual               |        |        | Manual              |        |        | Manual              |        |        | Manual              |        |        | Manual              |        |        |
|                     | Refrigerant              | R600a                |        |        | R600a(220/60:R290)  |        |        | R600a               |        |        | R290                |        |        | R290                |        |        |
| Control system      | Controller               | TC-200               |        |        | TC-200              |        |        | TC-200              |        |        | TC-200              |        |        | TC-200              |        |        |
|                     | Display                  | LED digital          |        |        | LED digital         |        |        | LED digital         |        |        | LED digital         |        |        | LED digital         |        |        |
|                     | Display accuracy         | 0.1                  |        |        | 0.1                 |        |        | 0.1                 |        |        | 0.1                 |        |        | 0.1                 |        |        |
| Power               | Power supply (V/Hz)      | 220/50               | 220/60 | 120/60 | 220/50              | 220/60 | 120/60 | 220/50              | 220/60 | 120/60 | 220/50              | 220/60 | 120/60 | 220/50              | 220/60 | 120/60 |
|                     | Rated power (W)          | 95                   | 95     | 115    | 120                 | 140    | 170    | 220                 | 220    | 200    | 220                 | 220    | 230    | 250                 | 250    | 230    |
|                     | Rated Current (A)        | 0.7                  | 0.7    | 0.9    | 1.1                 | 1.3    | 1.7    | 1.7                 | 1.7    | 1.8    | 1.7                 | 1.7    | 2.0    | 1.7                 | 1.7    | 2      |
| Data memory         | High/low temp check      | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | USB port                 | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Cloud monitoring (Wi-Fi) | ○ CryoMonitor 2000TF |        |        |                     |        |        |                     |        |        |                     |        |        |                     |        |        |
| Alarm functions     | Visible/audible alarm    | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | High/low temp            | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Sensor failure           | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Door open                | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Low battery              | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Power failure            | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Remote alarm contact     | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
| Other feature       | Door lock with key       | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Inner LED light          | ●                    |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        | ●                   |        |        |
|                     | Adjustbale foot          | ●                    |        |        | ●                   |        |        | ●                   |        |        | N/A                 |        |        | N/A                 |        |        |
|                     | Caster                   | N/A                  |        |        | N/A                 |        |        | N/A                 |        |        | ●                   |        |        | ●                   |        |        |
|                     | Test access port         | Φ19mm x 1            |        |        | Φ19mm x 1           |        |        | Φ19mm x 1           |        |        | Φ19mm x 1           |        |        | Φ19mm x 1           |        |        |
|                     | Shelves adjustable       | 1                    |        |        | 2                   |        |        | 5                   |        |        | 5                   |        |        | 5                   |        |        |
|                     | Shelf at buttom          | 1                    |        |        | 1                   |        |        | 1                   |        |        | 1                   |        |        | 1                   |        |        |
| Material            | Door QTY                 | 1                    |        |        | 1                   |        |        | 1                   |        |        | 1                   |        |        | 1                   |        |        |
|                     | Exterior                 | Pre-coated steel     |        |        | Pre-coated steel    |        |        | Pre-coated Steel    |        |        | Pre-coated steel    |        |        | Pre-coated steel    |        |        |
|                     | Interior                 | Pre-coated aluminum  |        |        | Pre-coated aluminum |        |        | Pre-coated aluminum |        |        | Pre-coated aluminum |        |        | Pre-coated aluminum |        |        |
|                     | Door                     | Solid door           |        |        | Solid door          |        |        | Solid door          |        |        | Solid door          |        |        | Solid door          |        |        |
|                     | Insulation               | Polyurethane         |        |        | Polyurethane        |        |        | Polyurethane        |        |        | Polyurethane        |        |        | Polyurethane        |        |        |
| Shipping            | Gross weight (KGs)       | 39.5                 |        |        | 50.5                |        |        | 73.5                |        |        | 92                  |        |        | 112.5               |        |        |
|                     | Packing W×D×H (mm)       | 570×620×760          |        |        | 660×620×910         |        |        | 660×620×1630        |        |        | 660×700×1900        |        |        | 830×750×2000        |        |        |
|                     | Volume (m³)              | 0.27                 |        |        | 0.37                |        |        | 0.67                |        |        | 0.88                |        |        | 1.25                |        |        |