

Transport Cooler

MBI9Z-4

Main Application

This product line is designed for temporary storage and transfer of blood products, tissues, cells and biological samples. The core technology for a reliable storage temperature includes an advanced semiconductor refrigeration system, cold chain monitoring system, camera recognition technology, GPS positioning and Bluetooth data export technology.

Product Advantages

Advanced control for constant temperature

- Constant temperature of 4 +/- 1 C inside the cabinet with resolution of 0.1 C
- Dual controls with six high precision sensors and a mechanical thermostat ensure a reliable and accurate temperature profile inside the cabinet for specified temperature. The sophisticated inner door design significantly improves the energy efficiency by reducing thermal loss.

Multiple alarm functions for safe operation

- Complete alarm functions include high, low temperature, power failure, door ajar, sensor failure and low battery. Sound buzzer and flashing light are two modes for alarm complete with remote alarm interface.
- Rear battery supports the alarm and display after a power failure.
- NFC punch card module is available for a safer storage management.



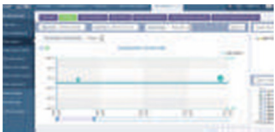
MBI9Z-4

User Friendly Design

- Can be used with 12 V and 220 power source
- Ease for mounting on vehicles
- Rear-mounted battery supports the display and alarm functions after power failure
- Door lock to secure the unit for stored products
- 4-inch touch screen for ease of interfacing



Temperature data upload record



Precise temperature control, whole-process cold chain monitoring



Real time tracking for blood bag location



Operation system home page



Electromagnetic lock

Parameters

| Model | Storage Temperature (°C) | Operating Temperature (°C) | 25 °C Empty Box Holding Time(h) | 25 °C Loaded Box Holding Time(h) | Exterior Dimensions (WxDxHmm) | Interior Dimensions (WxDxHmm) | Blood Bag Capacity | Cooling Method | Cold Chain Monitoring | RFID Identification | NFC Unlock |
|---------|--------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------------|-------------------------------|--------------------|----------------|-----------------------|---------------------|------------|
| MBI9Z-4 | 2 ~ 6 | 2 ~ 10 | >1 | >2 | 520×300×270 | 430×150×180 | 9 | Active Cooling | Standard | Standard | Standard |



MBI Biomedical Constant Temperature Transport Cooler



Designed with an advanced semiconductor refrigeration module to provide a constant temperature profile of 4 +/- 1 °C for reliable transfer of blood product



Cold chain monitoring function to ensure real-time temperature data uploading to the cloud platform and data traceability of historical temperature



Built-in GPS positioning module to provide real-time location tracking



Camera identification module designed for intelligent inventory checking and alerting



Temperature kept within 2 -8 °C for more than 1 hour during blood transfer

Transport Cooler

MBI5B-4

MainApplication

This model is for blood banks, blood collecting stations and transporting biological products such as blood, medicines, samples and reagents.

Product Advantages

Performance

- LCD display with 0.1 °C resolution to provide cabinet temperature, signal status, alarm information, battery power and local time
- Built-in SIM card with GPRS function to upload data to remote servers

Storage Security

- Alarm temperature and upload temperature can be set through data management software or cloud platform
- Magnetic lock design for sample security, additional security with software authorization and scan QR code to open function

Refrigeration System

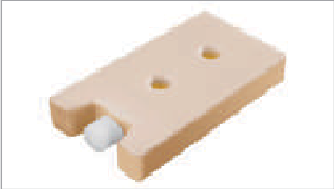
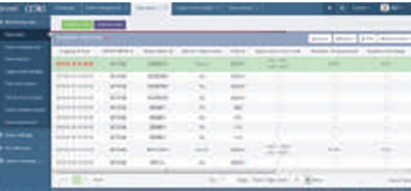
- Passive cooling mode is possible by placing the case in a freezer
- PCM ice pack can be placed to keep storage temperature at 2 to 10 °C during transportation
- ABS interior for additional insulation value



MBI5B-4

User Friendly Design

- Latch design for securing lid to protect stored products
- Support connection to portable printer GF-P1
- ABS liner design for additional insulation value



Parameters

| Model | Operating Temperature (°C) | 25 °C Empty Box Holding Time(h) | 25 °C Loaded Box Holding Time(h) | Exterior Dimensions (WxDxHmm) | Interior Dimensions (WxDxHmm) | Net Weight (kg) | Cooling Method |
|---------|----------------------------|---------------------------------|----------------------------------|-------------------------------|-------------------------------|-----------------|-----------------|
| MBI5B-4 | 2 ~ 10 | >1 | >4 | 285x186x200 | 220x118x126 | 1.9 | Passive cooling |

Transport Cooler

MBI8Z-4/MBI8ZA-4/MBI15Z-4/MBI15ZA-4

MainApplication

The model is designed for temporary storage of biological products such as blood products, medicines, specimens and reagents during transportation

Product Advantages

Temperature control

- Optimized semiconductor refrigeration system design for less energy consumption and cost
- Microprocessor control with digital temperature display, resolution of 0.1 °C
- Cabinet temperature range of 2 to 6 °C at stable operation
- Can hold 2 to 10 °C after power outage

Storage Security

- Alarms mode in buzzer and flashing light
- Alarm conditions are high and low temperature, sensor error, and power failure
- NFC swipe card unlocking function, unlocked information is uploaded in real time. Lid opening is controlled

High version features a cold chain monitoring module.

- Real time uploads of temperature and moisture information to cloud platform for inquiry through WIFI and 4G network.
- GPS positioning feature permits movement location.
- Bluetooth printing available at one touch
- Camera monitoring for internal storage space for any items placed in the box

Refrigeration System

- PCM ice packs increase thermal capacity storage for holding temperature longer.
- Advanced fan design for improved cooling efficiency
- Aluminum liner to improve thermal conductivity



MBI8Z-2/MBI8A-2



MBI15Z-2/MBI15ZA-2

User Friendly Design

- 12 V and 220 V power supply for vehicle operation
- Backup battery design to sustain display and alarm functions when power is lost
- Latch design to keep the lid closed for product security
- ABS interior for additional insulation value

Parameters

| Model | Storage Temperature (°C) | Operating Temperature (°C) | 25 °C Empty Box Holding Time(h) | 25 °C Loaded Box Holding Time(h) | Exterior Dimensions (WxDxHmm) | Interior Dimensions (WxDxHmm) | Net Weight (kg) | Cooling Method | Cold Chain Monitoring | NFC Unlocking |
|-----------|--------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------------|-------------------------------|-----------------|----------------|-----------------------|---------------|
| MBI8Z-2 | 2 ~ 6 | 2 ~ 10 | > 1 | > 2 | 300×260×260 | 230×140×180 | 3.5 | Active cooling | / | / |
| MBI8ZA-2 | 2 ~ 6 | 2 ~ 10 | > 1 | > 2 | 300×260×260 | 230×140×180 | 3.5 | Active cooling | standard | / |
| MBI15Z-2 | 2 ~ 6 | 2 ~ 10 | > 1 | > 2 | 490×295×265 | 430×150×180 | 6 | Active cooling | / | / |
| MBI15ZA-2 | 2 ~ 6 | 2 ~ 10 | > 1 | > 2 | 490×295×265 | 430×150×180 | 6 | Active cooling | standard | standard |