

# 4°C Blood Bank Refrigerator

ANTECH BloodSafe series blood bank refrigerators are designed to meet highest requirements for the secure storage of blood and blood components. It provides excellent temperature performance, low noise and decreased energy consumption. High quality SECOP compressor and natural hydrocarbon refrigerant are used for optimized temperature performance and energy efficiency.

## TC-100 Controller



Microprocessor electronic controller for BloodSafe series blood bank refrigerators, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature control.

### PERFORMANCE

- Forced air cooling for excellent temperature uniformity
- Variable (cycle) defrost
- Intelligent microprocessor controller with LED digital display resolution 0.1
- Magnetically sealed door with rapid cool-down mode after door opening
- Dual sensor design: Independent control sensor and display sensor

### ERGONOMIC DESIGN

- Stainless steel interior for easy cleaning
- Stainless steel sliding drawers for convenient use
- Door-activated and exterior switch-activated interior LED lighting
- Self-close door for convenient operation
- Ultra-quiet design reduces noise level
- 3-layer glass door preventing frost

### ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- No impact on ozone depletion, and very low Global Warming Potential (GWP)
- 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 high/low 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



- ▶ **Door lock**  
Door lock preventing unauthorized access



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



- ▶ **Forced air cooling**  
Excellent temperature uniformity and fast recovery after door open



- ▶ **Sliding drawer**  
Stainless steel sliding drawers for convenient storage of blood bags



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



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

# 4°C

## BloodSafe series



| Model         |                               | MBR-658                | MBR-1008               | MBR-1408               |
|---------------|-------------------------------|------------------------|------------------------|------------------------|
| Basic         | Type                          | Upright                | Upright                | Upright                |
|               | Temperature range (°C)        | 4                      | 4                      | 4                      |
|               | Climate type                  | N                      | N                      | N                      |
|               | Capacity (L)                  | 638                    | 1140                   | 1410                   |
|               | Blood bag storage qty (450ml) | 390                    | 624                    | 780                    |
|               | Cooling type                  | Forced air             | Forced air             | Forced air             |
|               | Defrost type                  | Auto defrost           | Auto defrost           | Auto defrost           |
|               | Refrigerant                   | R290                   | R290                   | R290                   |
| Control       | Controller                    | TC-100                 | TC-100                 | TC-100                 |
|               | Display                       | LED digital            | LED digital            | LED digital            |
|               | Display accuracy              | 0.1                    | 0.1                    | 0.1                    |
|               | High/low temp check           | ●                      | ●                      | ●                      |
|               | Battery switch                | ●                      | ●                      | ●                      |
|               | Backup for alarm (Hrs)        | 24                     | 48                     | 48                     |
|               | USB port                      | ●                      | ●                      | ●                      |
|               | Cloud monitoring (Wi-Fi)      | ○                      | ○                      | ○                      |
| Power         | Chart recorder                | ○                      | ○                      | ○                      |
|               | Power supply(V/Hz)            | 220/50; 220/60; 120/60 | 220/50; 220/60; 120/60 | 220/50; 220/60; 120/60 |
|               | Rated power (W)               | 260; 260; 250          | 400; 400; 420          | 400; 400; 420          |
| Alarm         | Rated current (A)             | 1.5; 1.5; 2.6          | 2.4; 2.4; 4.8          | 2.4; 2.4; 4.8          |
|               | Visible/audible alarm         | ●                      | ●                      | ●                      |
|               | High/low temp alarm           | ●                      | ●                      | ●                      |
|               | Remote alarm contact          | ●                      | ●                      | ●                      |
|               | Sensor failure                | ●                      | ●                      | ●                      |
|               | Door open                     | ●                      | ●                      | ●                      |
|               | Low battery                   | ●                      | ●                      | ●                      |
|               | Power failure                 | ●                      | ●                      | ●                      |
| Accessories   | Door lock with key            | ●                      | ●                      | ●                      |
|               | Door                          | 3-layer glass door x 1 | 3-layer glass door x 2 | 3-layer glass door x 2 |
|               | LED light                     | ●                      | ●                      | ●                      |
|               | Adjustable foot               | ●                      | ●                      | ●                      |
|               | Caster                        | ●                      | ●                      | ●                      |
|               | Sliding drawers Qty           | 6                      | 12                     | 12                     |
| Material      | Test access port              | Φ19mm x 1              | Φ19mm x 1              | Φ19mm x 1              |
|               | Exterior                      | Coated steel           | Coated steel           | Coated steel           |
|               | Interior                      | Stainless steel        | Stainless steel        | Stainless steel        |
|               | Sliding drawer                | Stainless steel        | Stainless steel        | Stainless steel        |
|               | Insulation                    | Polyurethane, 60mm     | Polyurethane, 60mm     | Polyurethane, 60mm     |
| Weight & size | Net weight (kg)               | 174                    | 277                    | 298                    |
|               | Gross weight (kg)             | 203                    | 312                    | 338                    |
|               | Internal W×D×H (mm)           | 660×650×1400           | 1299×650×1400          | 1460×650×1400          |
|               | External W×D×H (mm)           | 780×840×1965           | 1300×840×1965          | 1580×840×1965          |
|               | Packing W×D×H (mm)            | 840×870×2150           | 1340×870×2150          | 1640×870×2150          |
|               | Volume (m3)                   | 1.57                   | 2.51                   | 3.07                   |