Storage Solutions to Safeguard Blood Components

A blood bank refrigerator plays a critical role in safeguarding collected blood components. All Terumo Blood and Cell Technologies blood bank refrigerators are built with reliable and consistent performance in mind.

Reliable Temperature Control

Blood banks often need to open and close refrigerators many times throughout the day. This could expose the refrigerated blood components to temperatures outside the nominal range of +2 °C to +6 °C, leading to a break in storage compliance. Our blood bank refrigerators are able to maintain this temperature range because of features including:

- Thick polyurethane (PU) insulation in exterior walls to help maintain the proper temperature
- Triple-pane heated glass door with rubber gaskets to insulate and seal the door, keeping cold air in and high temperatures and humidity out
- Forced-air circulation to help ensure uniform temperature throughout the chamber and quick recovery of temperature after door openings
- Perforated inner trays that allow for better air circulation around bags and built-in acrylic sheets that act as a secondary door to minimize cold air lossw
- Heating around cabinet front edges to prevent condensation
- Audible alarms to alert you if the temperature is too high or too low, the door is open, or there is a sensor or power failure
- Eye-level temperature recording and control unit with backup battery for uninterrupted temperature monitoring

Energy-Efficient Operation

Each Terumo Blood and Cell Technologies blood bank refrigerator is developed based on rigorous research using highquality components to stay within temperatures of +4 °C \pm 2 °C while operating efficiently and consistently.

- The internal fan includes an automatic shut-off when the door is open to help reduce cold air loss
- The compressor is placed on top of the cabinet to help prevent dust accumulation that can affect its performance and lifespan
- Chlorofluorocarbon (CFC)-free refrigerants reduce harm to the environment





Solid Construction

Terumo Blood and Cell Technologies blood bank refrigerators are designed to last. The heavy-gauge steel exterior is powder-coated to avoid corrosion and cosmetic wear and tear, while the interior is stainless steel to reduce bacterial contamination and to simplify cleaning. The stainless steel interior trays slide out to make storing and accessing blood bags easy. In addition, both the BR and CR series of refrigerators come with a variety of blood bag storage capacities to meet your needs. An internal voltage stabilizer gives a constant output to the compressor to protect against short circuits and high temperatures.

Smart Digital Interface (CR Series Only)

The touch-screen interface of the temperature recording and control unit includes smart features like SMS alerts (GSM only subject to operator/frequency compatibility) for up to three mobile numbers, password-protected settings, data logging and backup, and the ability to interface with a PC via USB, LAN or RS-232 port.



The user-friendly touch-screen interface makes it easy to set up security and data logging controls to manage and monitor temperature.

Ordering Details — BR Series

Model Number	Ordering Code	Description
BR064	BR064HM000 BR064HM0A0 BR064HM0B0	Standard Model In built data logger In built data logger and negative temperature protection
BR128	BR128HM000 BR128HM0A0 BR128HM0B0	Standard Model In built data logger In built data logger and negative temperature protection
BR160	BR160HM000 BR160HM0A0 BR160HM0B0	Standard Model In built data logger In built data logger and negative temperature protection
BR360	BR360HM000 BR360HM0A0 BR360HM0B0	Standard Model In built data logger In built data logger and negative temperature protection

Ordering Details — CR Series

Model Number	BR064	BR128	BR160	BR360
Ordering Code	CR064HM000	CR128HM000	CR160HM000	CR360HM000

CR Series Blood Bank Refrigerators

Specification Type	CR064	CR128	CR160	CR360		
Туре	Vertical	Vertical	Vertical	Vertical		
Total storage capacity	64 bags (450 mL)	128 bags (450 mL)	160 bags (450 mL)	360 bags (450 mL)		
	or 80 bags (350 mL)	or 160 bags (350 mL)	or 200 bags (350 mL)	or 510 bags (350 mL)		
Storage capacity per tray	32 bags (450 mL)	32 bags (450 mL)	32 bags (450 mL)	72 bags (450 mL)		
Storage capacity per tray	Or	or	Or	Or		
	40 bags (350 mL)	40 bags (350 mL)	40 bags (350 mL)	102 bags (350 mL)		
Trays	2 stainless steel slide-out trays fitted with acrylic panels	4 stainless steel slide-out trays fitted with acrylic panels	5 stainless steel slide-out trays fitted with acrylic panels	5 stainless steel slide-out trays fitted with acrylic panels		
Voltage	230 V ± 10%, 50 Hz, single-phase .	AC				
Power consumption	550 W maximum	550 W maximum	550 W maximum	700 W maximum		
Voltage stabilizer	1 kVA built-in					
External dimensions (W × D × H)	670 × 678 × 1181 mm with casters	670 × 678 × 1471 mm with casters	670 × 678 × 1791 mm with casters	870 × 958 × 1867 mm with casters		
Internal dimensions (W × D × H)	510 × 490 × 610 mm	510 × 490 × 900 mm	510 × 490 × 1220 mm	710 × 770 × 1210 mm		
Weight	140 kg	170 kg	190 kg	270 kg		
Door	Polyurethane (PU) foam insulation, triple-pane glass					
Outer cabinet	Powder-coated steel					
Insulation	80 mm PU					
Inner chamber	Stainless steel					
Chamber temperature range	+4 °C ± 2 °C					
Air circulation inside chamber	Continuously operating forced-air circulation using the evaporator fan					
Lamp	CFL/LED model					
Compressor	Hermetically sealed					
Refrigerant	R134a (CFC-free)					
Portability	2 lockable casters in the front 2 non-lockable casters in the rear					
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerin solution and kept in a plastic bottle					
Temperature sensor accuracy	±0.1 °C					
Interface	240 × 320 px graphical display with a resistive touch screen					
Temperature display interval	0.1 °C					
Alarms and indicators						
Compressor on	Visible					
Temperature high/low	Audible/visible					
Door open Battery low	Audible/visible					
Power failure	Audible/visible Audible/visible					
Sensor failure	Audible/visible					
Chart change	Visible					
USB not connected	Visible					
Condenser clogged	Visible					
Memory low PC interface	Visible USB, RS-232, LAN					
Data logging	USB drive					
Communication	SMS alerts (GSM only subject to operator/frequency compatibility; SIM and associated costs to be borne by the customer) for up to three mobile numbers					
Memory backup	Data for 1 hour (assuming 1 set of	data per minute)				
Battery	7 A-h lead acid battery (3-hour battery backup for controller and recorder)					
Security	Key lock for touch screen, key lock for door, password protection for controller setting					
Chart accuracy	t 1 °C					
Chart duration	7 days					
Recorder resolution	1 °C					
Temperature recording	Ink pen on paper chart					
	ISO 9001:2015; EN ISO 13485:2012					
Quality standards	130 9001.2013; EIVISU 13485:201	2				

Available in select markets.

BR Series Blood Bank Refrigerators

Specification Type	BR064	BR128	BR160	BR360		
Туре	Vertical	Vertical	Vertical	Vertical		
Total storage capacity	64 bags (450 mL) or	128 bags (450 mL) or	160 bags (450 mL) or	360 bags (450 mL) or		
	80 bags (350 mL)	160 bags (350 mL)	200 bags (350 mL)	510 bags (350 mL)		
Storage capacity per tray	32 bags (450 mL)	32 bags (450 mL)	32 bags (450 mL)	72 bags (450 mL)		
	or 40 bags (350 mL)	or 40 bags (350 mL)	or 40 bags (350 mL)	or 102 bags (350 mL)		
Trays	2 stainless steel slide-out trays fitted with acrylic panels	4 stainless steel slide-out trays fitted with acrylic panels	5 stainless steel slide-out trays fitted with acrylic panels	5 stainless steel slide-out trays fitted with acrylic panels		
Voltage	230 V ± 10%, 50 Hz, single-phase	e AC				
Voltage stabilizer	1 kVA built-in					
Power consumption	550 W maximum	550 W maximum	550 W maximum	700 W maximum		
External dimensions (W × D × H)	670 × 678 × 1181 mm with casters	670 × 678 × 1471 mm with casters	670 × 678 × 1791 mm with casters	870 × 958 × 1867 mm with casters		
Internal dimensions	510 × 490 × 610 mm	510 × 490 × 900 mm	510 × 490 × 1220 mm	710 × 770 × 1210 mm		
Weight	140 kg	170 kg	190 kg	270 kg		
Door	Polyurethane (PU) foam insulation, triple-pane glass					
Outer cabinet	Powder-coated steel					
Insulation	80 mm PU					
Inner chamber	Stainless steel					
Chamber temperature range	+4 °C ± 2 °C					
Air circulation inside chamber	Continuously operating forced-air circulation using the evaporator fan					
Lamp	CFL/LED model					
Compressor	Hermetically sealed					
Refrigerant	R134a (CFC-free)					
Portability	2 lockable casters in the front 2 non-lockable casters in the rear					
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerin solution and kept in a plastic bottle					
Temperature sensor accuracy	±0.5 °C					
Interface	4-digit, 7-segment red LED					
Temperature display interval	0.5 °C					
Alarms and indicators Line in Power Compressor on Heater on Temperature high/low Door open System OK Battery low Power failure Sonsor failure	Visible Visible Visible Visible Audible/visible Audible/visible Visible Visible Visible					
Sensor failure Chart change	Audible/visible Visible					
Chart accuracy	±1°C					
Chart duration	7 days					
Recorder resolution	1°C					
Temperature recording	Ink pen on paper chart					
Quality standards	ISO 9001:2015; EN ISO 13485:2012					
	122 700 1120 10, 211100 10 103.20	nnex IX. Rule 2				

Available in select markets.

To learn more about our blood bank refrigerators, contact your Terumo Blood and Cell Technologies representative.



Terumo Blood and Cell Technologies is a medical technology company. Our products, software and services enable customers to collect and prepare blood and cells to help treat the challenging diseases and conditions of today and tomorrow. Our associates in more than 130 countries believe in the potential of blood and cells to do even more for patients than they do today. **TERUMOBCT.COM**

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