



BLOOD BANK REFRIGERATOR



LABOCON BLOOD BANK REFRIGERATOR LRBB-100 SERIES

Labocon Blood Bank Refrigerator LRBB-100 Series ensures reliability, stability, safety function for the storage of blood and blood components. Their efficiency makes them environment friendly and economical.

FEATURES

- ▶ High-quality structural steel plate interior treated with advanced phosphate spray coating processing
- ▶ Double transparent insulation glazed door with safety lock, filled with inert gas
- ▶ Double high-transparent synthetic glass door prevents spilling of large cold air when door is left open
- ▶ High-quality adjustable stand of plastic coated steel wire that can make operation and cleaning easy
- ▶ Large-screen design is easy for observation
- ▶ Power saving lamps on the body lights the interior space
- ▶ Inbuilt lithium accumulator for displaying the temperature inside the box and can keep the light and sound alarm available for 72 hours after electricity failure
- ▶ Fluoride-free Refrigeration system: DANFOSS compressor, EBM motor, Bi-Sonic double fan and high quality vaporizer (cooling pipeline inside the box)
- ▶ Forced cold-air circulation system with intelligence-control fan ensures temperature uniformity
- ▶ High accuracy computer-controlled temperature system
- ▶ High-resolution temperature calibrating function
- ▶ Power-off memory function for permanent storage of temperature data and information

- ▶ Data management software available for one or more temperature signal changes
- ▶ Communicates with PC through RS232 interface to examine the temperature curve diagnosis diagram of one or more refrigerators and displays the data sheet (Optional)
- ▶ Keyboard lock and password protection function
- ▶ Setting of alarm temperature range
- ▶ Equipped with remote alarm interface
- ▶ Code display of the failure position
- ▶ Delayed start function and interval protection function between temporary stop and start ensures reliable operation
- ▶ System can record the condition of the maximum and the minimum temperature inside the box automatically without recording paper
- ▶ System can operate under the state of sensor failure or the state of numerical disturbance safely and automatically
- ▶ Operator parameter display function ensures stable and secure supervision of the system by operator
- ▶ Operating parameter of the temperature control system helps to distinguish between operator menu and supervisor menu
- ▶ Safety function: Buzzer alarm, flashing alarm, remote signal alarm for high temperature alarm, low temperature alarm, sensors failure alarm, door-opening alarm, electricity failure alarm, low back-up battery alarm, low voltage alarm

APPLICATION

Labocon Blood Bank Refrigerator LRBB-100 Series is specialized refrigerating equipment for blood storage, cold storage of pharmaceutical and is widely used in hospitals, blood banks and anti-epidemic stations.

SPECIFICATION

Model	LRBB-101	LRBB-102	LRBB-103	LRBB-104
Capacity	120 L	170 L	210 L	255 L
Storage Capacity	50x200 ml Blood Bags	120x200 ml Blood Bags	160x200 ml Blood Bags	225x200 ml Blood Bags
Inner Temperature	4°C			
Shelves/Drawers	4 drawers	5 drawers	5 drawers	5 drawers
Door	1			
Shelf/Drawer loading Capacity	-	-	-	-
Shelf/Drawer dimensions (W x D)	-	-	-	-
Inner Dimension (WxDxH)	-	-	-	-
Overall Dimension (WxDxH)	500×500×1200 mm	530x530x1420 mm	530x530x1580 mm	550x550x1730 mm
Refrigerant				
Noise level				
Power	150 W	160 W	180 W	220 W
Power Supply	220V /50Hz			
Weight (Net/Gross)	50 kg	60 kg	70 kg	80 kg
Catalog No.	9182107486	9182108486	9182109486	9182110486

Model	LRBB-105	LRBB-106	LRBB-107
Capacity	300 L	400 L	560 L
Storage Capacity	250x200 ml Blood Bags	300x200 ml Blood Bags	430x200 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	6 drawers	5 drawers	5 drawers
Door	1	2	
Shelf/Drawer loading Capacity	-	-	-
Shelf/Drawer dimensions (W x D)	-	-	-
Inner Dimension (WxDxH)	-	-	-
Overall Dimension (WxDxH)	600x500x1700 mm	890x530x1700 mm	1190x580x1800 mm
Refrigerant	-	-	-
Noise level	-	-	-
Power	250 W	300 W	400 W
Power Supply	220V /50Hz		
Weight (Net/Gross)	90 kg	120 kg	150 kg
Catalog No.	9182111486	9182112486	9182113486

BLOOD BANK REFRIGERATOR LRBB-200 SERIES

Labocon Blood Bank Refrigerator LRBB-200 Series offers reliable temperature control, quiet and smooth operation. These upright type refrigerators are widely used in scientific research for long-term storage of blood samples. Their efficiency makes them environment friendly and economical.

FEATURES

- ▶ Stainless Steel interior and painted steel plate exterior
- ▶ Three-layer glass door with lock and heater to prevent ice leak
- ▶ Double glass door with lock and heater to prevent ice leak (LRBB-205)
- ▶ Inner shelves made of wire plastic
- ▶ Interior Fluorescent lighting
- ▶ Large screen LCD display of temperature with display accuracy of $\pm 0.1^{\circ}\text{C}$
- ▶ Refrigerant: CFC free R134a
- ▶ Refrigeration: Forced air circulation system
- ▶ Independent double refrigeration cycle system (LRBB-206)
- ▶ Danfoss compressor and EBM fan motor
- ▶ Defrosting: Automatic
- ▶ Cooling unit: Highly effective air-cooled condenser and fin-type evaporator
- ▶ Microprocessor temperature controller
- ▶ Automatic temperature control
- ▶ 4 casters for easy handling
- ▶ Safety functions: Audible and visual alarm for high or low temperature, door ajar, system failure, power failure and low battery
- ▶ Standard: Temperature printer
- ▶ Optional:
 - Chart recorder
 - Blood storage basket
 - Double microprocessor temperature controller, main system and back-up system (LRBB-206)

APPLICATION

Labocon Blood Bank Refrigerator LRBB-200 Series is specialized refrigerating equipment for blood storage, cold storage of pharmaceutical and is widely used in hospitals, blood banks and anti-epidemic stations.

SPECIFICATION

Model	LRBB-201	LRBB-202	LRBB-203
Capacity	88 L	268 L	358 L
Storage Capacity	(40-50)x450 ml Blood Bags	(100-140)x450 ml Blood Bags	(180-220)x450 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	3shelves	4shelves	5shelves
Door	1		
Shelf/Drawer loading Capacity	15 bags	30 bags	40 bags
Shelf/Drawer dimensions (WxD)	300x256 mm	405x387 mm	405x387 mm
Inner Dimension (WxDxH)	402x343x663 mm	512x518x973 mm	512x515x1270 mm
Overall Dimension (WxDxH)	500x450x1515 mm	700x628x1662 mm	700x628x1962 mm
Refrigerant	R134a		
Noise level	47.5 dB	48.9 dB	50.3 dB
Power	350 W	400 W	600 W
Power Supply	220V, 50Hz		
Weight (Net/Gross)	90/100 kg	160/170 kg	200/210 kg
Catalog No.	9182101343	9182102343	9182103343

Model	LRBB-204	LRBB-205	LRBB-206
Capacity	588 L	950 L	1380 L
Storage Capacity	(250-300)x450 ml Blood Bags	(350-400)x450 ml Blood Bags	960x450 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	6shelves	8shelves	12 stainless steel drawers
Door	1	2	
Shelf/Drawer loading Capacity	45 bags	50 bags	80 bags
Shelf/Drawer dimensions (WxD)	505x519 mm	520x450 mm	635x600 mm
Inner Dimension (WxDxH)	550x560x1260 mm	600x1100x1400 mm	855x1558x1985 mm
Overall Dimension (WxDxH)	800x760x1977 mm	780x1200x1894 mm	1448x700x1423 mm
Refrigerant	R134a		
Noise level	54.5 dB	55.9 dB	52.3 dB
Power	700 W	800 W	1000 W
Power Supply	220V, 50Hz		
Weight (Net/Gross)	230/240 kg	120/140 kg	300/335 kg
Catalog No.	9182104343	9182105343	9182106343

BLOOD BANK REFRIGERATOR LRBB-300 SERIES

Labocon Blood Bank Refrigerator LRBB-300 Series offers reliable temperature control, quiet and smooth operation. These refrigerators are widely used in scientific research for long-term storage of blood samples. Their efficiency makes them environment friendly and economical.

FEATURES

- ▶ High quality anticorrosive stainless steel design interior (except LRBB-302)
- ▶ Double door design with safety lock
- ▶ Multi-layer movable shelves, stainless steel or plastics-dipping steel wire basket for blood storage
- ▶ Blood classification deposit, easy to store and identify
- ▶ Thermometer hole design, convenient for temperature examination
- ▶ Universal caster with locking function design at the bottom for easy handling
- ▶ Micro-computer controlled refrigerant system
- ▶ LED lighting design
- ▶ Six temperature sensors, two for monitoring the core temperature of fluid
- ▶ Multi malfunction alarm system for High or low temperature, sensor malfunction, door ajar, power cut and low voltage
- ▶ Three alarming methods: Buzzer alarming, light flashing alarming available for remote alarming
- ▶ Protection function: Power-on delay, time between stops, security operating mode for sensor malfunction and disorder number
- ▶ Optional: Temperature recorder

APPLICATION

Labocon Blood Bank Refrigerator LRBB-300 Series is specialized refrigerating equipment for blood storage, cold storage of pharmaceutical and is widely used in hospitals, blood banks and anti-epidemic stations.

SPECIFICATION

Model	LRBB-301	LRBB-302	LRBB-303
Capacity	120 L	310 L	400 L
Storage Capacity	60x200 ml Blood Bags	105x200 ml Blood Bags	160x200 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	4drawers	15 drawers	20 drawers
Door	1		
Shelf/Drawer loading Capacity	-	-	-
Shelf/Drawer dimensions (W x D)	-	-	-
Innner Dimension (WxDxH)	485×449×550 mm	565×454×1198mm	640×577×1195 mm
Overall Dimension (WxDxH)	598×618×1110 mm	610×644×1960 mm	750×761×1799 mm
Refrigerant	R134A		
Noise level	55 dB		
Power	220 W	403 W	430 W
Power Supply	220V /50Hz		
Weight (Net/Gross)	90/100 kg	160/170 kg	200/210 kg
Catalog No.	9182114105	9182115105	9182116105

BLOOD BANK REFRIGERATOR ADVANCED LRBBA-100 SERIES

Labocon Blood Bank Refrigerator Advanced LRBBA-100 Series ensures reliability, stability, safety function for the storage of blood and blood components. These units offer high uniformity and excellent temperature control. Our Advanced Blood Bank Refrigerators are available in various sizes.

FEATURES

- ▶ Sheet steel epoxy coated white colour inside and outside
- ▶ Internal corners are rounded for easy cleaning and internal bottom is tray type to contain spills
- ▶ High density polyurethane insulation
- ▶ Insulation thickness: 40-75 mm
- ▶ Hinged glass door made of perimetrical aluminum frame and three layers of tempered insulating glass with vacuum among the glass layers. The door is provided with a removable magnetic rubber gasket. The handle is realized in aluminum, integrated in the door profile
- ▶ The door is also fitted with aspring loaded automatic closing device for less than 90° opening of the door, and a special door switch that stops the internal ventilation when the door is opened to reduce the loss of cold air
- ▶ AISI 304 18/10 Stainless steel drawers. The drawers are mounted on special ball-bearing anti-tilt telescopic stainless steel slides which enables easy opening and closing of the drawers.
- ▶ The Drawers are divided internally into 3 columns and fitted with 6 adjustable plastic dividers for ease of storage
- ▶ Control panel: Microprocessor operating with soft-touchpads and LCD display. The main functions of the control panel are :
 - Digital temperature display with an accuracy of 0.1°C
 - Keyboard: password protected with automatic locking
 - Back-up battery with automatic recharging
 - Muting facilities for the acoustic alarms
 - Alarms memory not deletable for the last 30 alarm conditions

- Events memory with the possibility of checking from the display, defrostings, door openings, relays status, etc
- Internal ventilation setting
- Icon based menu
- Real-time graphical temperature chart
- ▶ Cooling unit : Condensing unit compounded by 1 hermetic compressor and a finned air cooled condenser
- ▶ Refrigeration: Forced-air circulation
- ▶ Defrosting: Completely automatic, thermostat controlled
- ▶ Temperature Sensor: PT1000
- ▶ RS 485 Interface
- ▶ Safety functions: Visual and acoustic alarm for high and low temperature, door ajar, power failure, battery discharged, condenser dirty, anti-freezing evaporator, sensors failure
- ▶ Optional:
 - Extra wire shelf
 - Stainless steel drawer
 - Plastic partitions for drawers
 - Front top for drawers
 - Kit of rollers
 - Safety door lock with key
 - Temperature chart recorder
 - Electronic temperature printer
 - Data-logging function through USB port with direct download of Excel file
 - GSM/GPRS telephone dialer
 - Ballasted sensor for simulation of product temperature alarm
 - Cable port with cover
 - Different voltage

APPLICATION

Labocon Blood Bank Refrigerator Advanced LRBBA-100 Series is specialized refrigerating equipment for blood storage, cold storage of pharmaceutical and widely used in hospitals, blood banks and anti epidemic stations.

SPECIFICATION

Model	LRBBA-101	LRBBA-102	LRBBA-103	LRBBA-104
Capacity	110 L	130 L	270 L	370 L
Storage Capacity	48x450 ml Blood Bags	81x450 ml Blood Bags	96x450 ml Blood Bags	144x450 ml Blood Bags
Inner Temperature	4°C			
Shelves/Drawers	2 drawers	3 drawers	4 drawers	6 drawers
Door	1			
Shelf/Drawer loading Capacity	35 kg	35 kg	35 kg	35 kg
Shelf/Drawer dimensions (W x D)	430x400 mm	380x450 mm	430x400 mm	430x400 mm
Inner Dimension (WxDxH)	620x660x830 mm	530x640x940 mm	600x650x1640 mm	600x650x2020 mm
Overall Dimension (WxDxH)	700x750x1050 mm	650x720x1140 mm	720x730x1780 mm	680x780x2180 mm
Refrigerant	R134A		R404A	
Noise level	<48 dB			
Power	194 W	194 W	310 W	310 W
Power Supply	240V, 50Hz			
Weight (Net/Gross)	70/80 kg	80/90 kg	95/115 kg	120/140 kg
Catalog No.	9182117181	9182118181	9182119181	9182120181

Model	LRBBA-105	LRBBA-106	LRBBA-107	LRBBA-108
Capacity	442 L	534 L	625 L	924 L
Storage Capacity	180x450 ml Blood Bags	280x450 ml Blood Bags	336x450 ml Blood Bags	360x450 ml Blood Bags
Inner Temperature	4°C			
Shelves/Drawers	6 drawers	7 drawers	7 drawers	12 drawers
Door	1			2
Shelf/Drawer loading Capacity	40 kg	45 kg	45 kg	40 kg
Shelf/Drawer dimensions (W x D)	430x500 mm	500x480 mm	500x580 mm	430x400 mm
Inner Dimension (WxDxH)	600x700x1920 mm	750x700x2100 mm	750x820x2100 mm	1200x700x1920 mm
Overall Dimension (WxDxH)	700x800x2120 mm	850x980x2240 mm	850x980x2240 mm	1280x800x2120 mm
Refrigerant	R404A			
Noise level	<50 dB			<52 dB
Power	310 W	1006 W	1006 W	1233 W
Power Supply	240V, 50Hz			
Weight (Net/Gross)	130/150 kg	185/205 kg	190/210 kg	240/270 kg
Catalog No.	9182121181	9182122181	9182123181	9182124181

Model	LRBBA-109	LRBBA-110	LRBBA-111
Capacity	1167 L	1365 L	2102 L
Storage Capacity	560x450 ml Blood Bags	672x450 ml Blood Bags	1008x450 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	14 drawers		21 drawers
Door	2		3
Shelf/Drawer loading Capacity	45 kg		
Shelf/Drawer dimensions (W x D)	500x480 mm	500x580 mm	500x580 mm
Inner Dimension (WxDxH)	1500x700x2100 mm	1500x820x2100 mm	2250x820x2100 mm
Overall Dimension (WxDxH)	1580x980x2240 mm	1580x980x2240 mm	2320x980x2240 mm
Refrigerant	R404A		
Noise level	<52dB		<54dB
Power	1744 W	1744 W	2407 W
Power Supply	240V, 50Hz		
Weight (Net/Gross)	270/300 kg	290/320 kg	430/470 kg
Catalog No.	9182125181	9182126181	9182127181

BLOOD BANK REFRIGERATOR ADVANCED LRBBA-200 SERIES

Labocon Blood Bank Refrigerator Advanced LRBBA-200 Series ensures reliability, stability, safety function for the storage of blood and blood components. These units offer high uniformity and excellent temperature control. Our Advanced Blood Bank Refrigerators are available in various sizes.

FEATURES

- ▶ Interior and exterior both made up of 18/10 AISI 304 Stainless steel
- ▶ Internal corners are rounded for easy cleaning and internal bottom is tray type to contain spills
- ▶ High density polyurethane insulation
- ▶ Insulation thickness: 40-75 mm
- ▶ Hinged glass door made of perimetrical aluminum frame and three layers of tempered insulating glass with vacuum among the glass layers. The door is provided with a removable magnetic rubber gasket. The handle is realized in aluminum, integrated in the door profile
- ▶ The door is also fitted with a spring loaded automatic closing device for less than 90° opening of the door, and a special door switch that stops the internal ventilation when the door is opened to reduce the loss of cold air
- ▶ AISI 304 18/10 Stainless steel drawers. The drawers are mounted on special ball-bearing anti-tilt telescopic stainless steel slides which enables easy opening and closing of the drawers.
- ▶ The Drawers are divided internally into 3 columns and fitted with 6 adjustable plastic dividers for ease of storage
- ▶ Control panel: Microprocessor operating with soft-touchpads and LCD display. The main functions of the control panel are :
 - Digital temperature display with an accuracy of 0.1°C
 - Keyboard: password protected with automatic locking
 - Back-up battery with automatic recharging
 - Muting facilities for the acoustic alarms
 - Alarms memory not deletable for the last 30 alarm conditions
 - Events memory with the possibility of checking from the display, defrostings, door openings, relays status, etc
 - Internal ventilation setting

- Icon based menu
- Real-time graphical temperature chart
- ▶ Cooling unit : Condensing unit compounded by 1 hermetic compressor and a finned air cooled condenser
- ▶ Refrigeration: Forced-air circulation
- ▶ Defrosting: Completely automatic, thermostat controlled
- ▶ Temperature Sensor: PT1000
- ▶ RS 485 Interface
- ▶ Safety functions: Visual and acoustic alarm for high and low temperature, door ajar, power failure, battery discharged, condenser dirty, anti-freezing evaporator, sensors failure
- ▶ Optional:
 - Extra wire shelf
 - Stainless steel drawer
 - Plastic partitions for drawers
 - Front top for drawers
 - Kit of rollers
 - Safety door lock with key
 - Temperature chart recorder
 - Electronic temperature printer
 - Data-logging function through USB port with direct download of Excel file
 - GSM/GPRS telephone dialer
 - Ballasted sensor for simulation of product temperature alarm
 - Cable port with cover
 - Different voltage

APPLICATION

Labocon Blood Bank Refrigerator Advanced LRBBA-200 Series is specialized refrigerating equipment for blood storage, cold storage of pharmaceutical and widely used in hospitals, blood banks and anti-epidemic stations.

SPECIFICATION

Model	LRBBA-201	LRBBA-202	LRBBA-203	LRBBA-204
Capacity	110 L	130 L	270 L	370 L
Storage Capacity	48x450 ml Blood Bags	81x450 ml Blood Bags	96x450 ml Blood Bags	144x450 ml Blood Bags
Inner Temperature	4°C			
Shelves/Drawers	2 drawers	3 drawers	4 drawers	6 drawers
Door	1			
Shelf/Drawer loading Capacity	35 kg			
Shelf/Drawer dimensions (W x D)	430x400 mm	380x450 mm	430x400 mm	430x400 mm
Inner Dimension (WxDxH)	900x660x540 mm	530x640x940 mm	600x650x1640 mm	600x650x2020 mm
Overall Dimension (WxDxH)	1000x750x750 mm	650x720x1140 mm	720x730x1780 mm	680x780x2180 mm
Refrigerant	R134A		R404A	
Noise level	<48 dB			
Power	194 W	194 W	310 W	310 W
Power Supply	240V, 50Hz			
Weight (Net/Gross)	70/80 kg	80/90 kg	95/115 kg	120/140 kg
Catalog No.	9182128181	9182129181	9182130181	9182131181

Model	LRBBA-205	LRBBA-206	LRBBA-207	LRBBA-208
Capacity	442 L	534 L	625 L	924L
Storage Capacity	180x450 ml Blood Bags	280x450 ml Blood Bags	336x450 ml Blood Bags	360x450 ml Blood Bags
Inner Temperature	4°C			
Shelves/Drawers	6 drawers	7 drawers	7 drawers	12 drawers
Door	1			2
Shelf/Drawer loading Capacity	40 kg	45 kg	45 kg	40 kg
Shelf/Drawer dimensions (W x D)	430x500 mm	500x480 mm	500x580 mm	430x500 mm
Inner Dimension (WxDxH)	600x700x1920 mm	750x700x2100 mm	750x820x2100 mm	1200x700x1920 mm
Overall Dimension (WxDxH)	700x800x2120 mm	850x980x2240 mm	850x980x2240 mm	1280x800x2120 mm
Refrigerant	R404A			
Noise level	<50 dB		<50 dB	<52 dB
Power	310 W	1006 W	1006 W	1233 W
Power Supply	240V, 50Hz			
Weight (Net/Gross)	130/150 kg	185/205 kg	190/210 kg	240/270 kg
Catalog No.	9182132181	9182133181	9182134181	9182135181

Model	LRBBA-209	LRBBA-210	LRBBA-211
Capacity	1167 L	1365 L	2102 L
Storage Capacity	560x450 ml Blood Bags	672x450 ml Blood Bags	1008x450 ml Blood Bags
Inner Temperature	4°C		
Shelves/Drawers	14 drawers	14 drawers	21 drawers
Door	2	2	3
Shelf/Drawer loading Capacity	45 kg		
Shelf/Drawer dimensions (W x D)	500x480 mm	500x580 mm	500x580 mm
Inner Dimension (WxDxH)	1500x700x2100 mm	1500x820x2100 mm	2250x820x2100 mm
Overall Dimension (WxDxH)	1580x980x2240 mm	1580x980x2240 mm	2320x980x2240 mm
Refrigerant	R404A		
Noise level	<52dB		<54dB
Power	1744 W	1744 W	2407 W
Power Supply	240V, 50Hz		
Weight (Net/Gross)	270/300 kg	290/320 kg	430/470 kg
Catalog No.	9182136181	9182137181	9182138181



LRBB-101



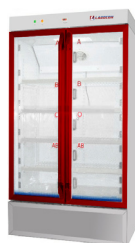
LRBB-102



LRBBA-104



LRBB-105



LRBB-107



LRBB-201



LRBB-205



LRBB-206



LRBB-301



LRBB-303



LRBBA-101



LRBBA-102



LRBBA-103



LRBBA-105



LRBBA-107



LRBBA-111



LRBBA-201



LRBBA-202



LRBBA-203



LRBBA-204



LRBBA-205



LRBBA-208



LRBBA-211



LABOCON SCIENTIFIC LIMITED

18A Melton Road, Leicester LE4 5EA, United Kingdom

 +44 203 3724877 |  info@labocon.com |  www.labocon.com