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Blood Bank Equipments

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Intelligent Blood Bank Equipment Blood Collection Monitor

Application

- ✓ It is meant for Stationary & Mobile use for gentle mixing of blood with anticoagulant present inside the blood bag to form a homogeneous mixture. Authentic BCM ensures to prevent clot formation of cells during blood collection from donor.
- ✓ To pre-set total volume of blood to be collected and accordingly monitor and display amount collected. It also has facility to clamp and stop the collection of blood as soon as pre-set volume is collected and does not allow over collection.
- ✓ Suitable for all blood bags available in the Market.



Traditional

Highlights

- ✓ Facility to preset total volume of blood with Toggling of Volume 350ml or 450ml with single touch.
- ✓ Having automatic terminator facility of blood collection when blood volume collected reach present set volume.
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Bar Code assistance for stock maintenance.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for history data downloading to pen drive*.



4.3 Touch Screen



7.1 Touch Screen

Blood Collection Monitor

Features

- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.
- ✓ Web based online portal to register complaints.



Carrying Case



Carrying Bag

Blood Collection Monitor

Series	Traditional	4.3 TOUCH	7.1 TOUCH SCREEN
Controller	Digital with Numerical Buttons	4.3" Touch Screen	7.1" Touch Screen
Toggling (350ml/450ml)	Yes	Yes	Yes
Weight	4.8 Kgs	5.1 Kgs.	8.1 Kgs.
Barcode Facility	No	No	Yes
Battery Backup (in Hrs)	Up to 96 Hrs/ 90+ Donations	Up to 72 Hrs/ 90+ Donations	Up to 20 Hrs/ 20+ Donations
SMS Alerts	No	No	Yes
Email Data Access	No	No	Yes

Technical Specification

- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Suitable to operate at Temperature of +10 C to +45 °C and relative humidity (RH) of 5% to 95%.
- ✓ Pre selection of Volume Range 0-1000 ml with Resolution 0.1 ml according with time range 0-99 mins.
- ✓ Automatic terminator facility of blood collection when blood volume collected reach present set volume with accuracy of $\pm 2\%$.
- ✓ Toggling of Volume 350ml or 450ml with single touch .
- ✓ Automatic zero volume calibration of blood bags.
- ✓ Display of volume and weight simultaneously. Before collection started the volume will be shown in Gms whenever collection initiated it changes into ml.
- ✓ Digital Display : Set volume, Actual Volume, Collection Process Status, Flow rate, Battery Percentage Status ,Clamp Status & Collection pause/stop icon.
- ✓ Automatic switches on battery mode whenever power fails.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ Low Battery indication with Alarm.
- ✓ 0-100% battery charge in 2 hours with facility of over charging & deep discharge Protection. (battery will turn off machine at 32% in order to prevent deep discharge)
- ✓ Battery percentage drop during off condition at full charge 97% to 63% in 35 days.
- ✓ Provision for pausing collection and change program during blood collection.
- ✓ Automatic clamping and re-lease of bag when lifted.
- ✓ Provided smooth and gentle rocking of 12 to 14 rpm for uniform mixing of blood with anti-coagulant solution during collection.
- ✓ Indication and alarm for commencement & end of collection ,time taken for collection, Battery depletion/low, blood flow rate with audio and visual alarm when blood flow is Higher than 180ml/min & Lower than 20ml/min.
- ✓ Memory storage for repeated collection of previous blood volume.
- ✓ Capable to store memory for past donation volumes.
- ✓ Detachable magnetically attached tray for easy cleaning.
- ✓ provided with carry box with handle.
- ✓ Barcode Reader: To scan and update the process data Daily e-mail of all processes in excel sheet Containing the data i.e.- Donor Name, Donation Number, bag details, Date and time. Time taken for collection etc.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 2 Amp. Single phase A.C.
- ✓ There isn't any requirement of external software life time for configuration and access of data collection & analysis.
- ✓ Self diagnosis & display of Error / faults & warnings.

Intelligent Blood Bank Equipments Blood Storage Cabinet +4°C

Application

- ✓ The blood bank refrigerator/Cabinet is an essential piece of equipment in the immune haematology department & in Blood bank that provides safe and convenient storage of whole blood.
- ✓ Blood components (e.g., blood cells), and reagents. Blood bank refrigerator/Cabinet ensure freshness and integrity of blood and blood components.
- ✓ Temperature controlled Cabinets are used to store blood bags to use within its required temperature within 2 to 6 degree Celsius to protect from Haemolysis.

Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 7.1" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Bar Code assistance for stock maintenance.
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive*.



Blood Storage Cabinet +4°C

Features

- ✓ Dual Safety Controller cum Online regular Calibrator.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ 4 or more weeks Thermograph Email facility Automatically and Manually as well.
- ✓ Barcode scanner for Bag event recording
- ✓ Issuing & withdrawal of Blood bags through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ Ethernet and Cellular Network connectivity (2G & 3G)
- ✓ Cool down time on off load 2 hours (25°C to 4°C).
- ✓ Cool down time full load 6 hours (25°C to 4°C).
- ✓ Hold over time on off load 1.5 hours (4°C to 6°C).
- ✓ Hold over time full load 4 hours (4°C to 6°C).
- ✓ Compressor running ON/OFF cycle 35:65
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.
- ✓ Web based online portal to register complaints.



IRIS touch screen



Heavy duty Castor Wheels

Blood Storage Cabinet



Product Catalog No	Series	Bag capacity	Temperature Range	Drawers	Certifications
AI 20101	X1 4.3" Touch Screen	BBR-80	2 to 6°C Set Point 4°C	3	Notified CE,ISO
AI 20102		BBR-200		5	Notified CE,ISO
AI 20103		BBR-300		6	Notified CE,ISO
AI 20104		BBR-400		6	Notified CE,ISO
AI 30101	X1 7.1" Touch Screen	BBR-80	2 to 6°C Set Point 4°C	3	Notified CE,ISO
AI 30102		BBR-200		5	Notified CE,ISO
AI 30103		BBR-300		6	Notified CE,ISO
AI 30104		BBR-400		6	Notified CE,ISO

Technical Specification

- ✓ Operating Temperature $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (2 to 6°C), Temperature gradient $\pm 1^{\circ}\text{C}$ with Accuracy of $\pm 1^{\circ}\text{C}$.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Inkless & paperless smart chart recording system with 4 weeks chart storage capacity with adjustable graph range.
- ✓ Double pane door packed toughened glass with full visibility of units without door opening, thickness of 60-70 mm.
- ✓ Internal acrylic cover for each drawer to minimize temperature loss of inside cabinet when door opens.
- ✓ RTD located in top portion of chamber in a encapsulated glycerin bottle for accurate temperature measurement.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Scratch resistant Mesh type sliding stainless SS 304 steel trays with sufficient airspace to ensure good air circulation.
- ✓ Door Key lock & Provision for padlock facility.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants. with insulation of 80 mm thick polyurethane foam.
- ✓ Interior made from AISI 304 grade 22 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Blower Positioned at 90° switches off automatically when you open the door and lamp glows for uniform lighting inside the cabinet.
- ✓ Heavy duty Lockable adjustable Castor Wheels to lock the equipment in place without moving. Ground Clearance of 100 mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status closed/open, Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual).
- ✓ Overvoltage and under voltage protection circuit.
- ✓ USB port for Downloading of Thermograph through Pen Drive.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ There isn't any requirement of external software life time for configuration and access of Thermograph data collection & analysis.
- ✓ IMC (Instrument Maintenance Card) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
- ✓ Self diagnosis & display of Error / faults & warnings.
- ✓ Standard warranty 1 year after installation

Capacity Available : Up to 600 Bags under CE notified Certifications.

Intelligent Deep Freezer -40°C

Application

- ✓ The Deep Freezer is an essential piece of equipment in the immune haematology, Microbiology department & in Blood bank that provides safe and convenient storage of Various Samples, Plasma & cryo bags.

Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 4.3"/7.1" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms
- ✓ Bar Code assistance for stock maintenance .
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central/Remote Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive*.

Salient Features

- ✓ Online regular Calibrator cum dual Safety controller enhances and retain the product quality.
- ✓ 4 or more weeks Thermograph Email facility Automatically and Manually as well.
- ✓ Barcode scanner for Bag event recording ,Issuing & withdrawal of Various sample through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ Ethernet ,WIFI and Present available Cellular Network connectivity (2G,3G,4G).
- ✓ Cool down time on off load 2.5 hours (25° C to -40° C).
- ✓ Cool down time full load 16 hours (25° C to -40° C).
- ✓ Hold over time off load 1.5 hours (-40° C to -25° C)
- ✓ Hold over time full load 3 hours ((-40° C to -25° C).
- ✓ Compressor running ON/OFF cycle 60:40
- ✓ Power consumption 0.41 KWH/10KW Per day on full load.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.
- ✓ Web based online portal to register complaints.



Deep Freezer -40°C

Deep Freezer -40°C



Product Catalog	Series	Controller Type	Model	Temperature Range	Capacity (in Liters)	Drawers	Certifications
AI 20201	X1	4.3" Touch Screen	DF100	-20 to -40°C Set Point -40°C	100-200	2	Notified CE,ISO
AI 20202			DF300		300-400	4	Notified CE,ISO
AI 20203			DF500		500-600	4	Notified CE,ISO
AI 20204			DF700		700-800	6	Notified CE,ISO
AI 30201	X2	7.1" Touch Screen	DF100	-20 to -40°C Set Point -40°C	100-200	2	Notified CE,ISO
AI 30202			DF300		300-400	4	Notified CE,ISO
AI 30203			DF500		500-600	4	Notified CE,ISO
AI 30204			DF700		700-800	6	Notified CE,ISO

Technical Specification

- ✓ Operating Temperature -20 to -40°C in ambient temperature of up to +45° C.Accuracy of ±1°C.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling of the equipment.
- ✓ Circular Temperature Chart Recording system with 5 years data storage Capacity along with Selectable Graph range.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Door Key lock & Provision for padlock facility with insulation of 80 -125mm.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants with insulation of 100-155 mm thick polyurethane foam.
- ✓ Individual/Single Inner doors with Magnetic/Mechanical latches ensure safe storage and less cold air loss during opening and closing of the door.
- ✓ Interior made from AISI 304 grade 22 /24 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Heavy duty Lockable adjustable Castor Wheels for locking the equipment in place .with Ground clearance of 100mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status , Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility even if the case power failure : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual) & Filter Indication.
- ✓ Non-invasive Automatic/Mechanical defrost with time & temperature guided cycle.
- ✓ USB port for Downloading of Thermograph via Pen Drive.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Display of Battery Percentage status, 0-100% charge in just 2 hours with over charging & deep discharge Protection.
- ✓ Door stop on the right-hand side to stop the door from opening more than 90-120 degrees.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front, Sides and the back.
- ✓ Child /Security lock facility to prevent unauthorised access.
- ✓ Electrical requirements. 220V to 240V, 50 Hz, Single phase A.C.

OPTIONAL:

- ✓ IMC (Instrument Maintenance Card) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Washable filter for protection from dust on the Condenser that increases refrigeration performance.
- ✓ GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile) , SMS alerts on Events of High or Low Temperature ,Power Failure on Hierarchy based programmed management to ensure product safety.
- ✓ Event Management Through Barcoding system for better tracking system.
- ✓ Data Logging of Power source, High/Low Voltage and Power Failure.
- ✓ Vacuum relief/Pressure equalization Port for easy access after door opening.
- ✓ Co2/N2 port for temperature Back up.
- ✓ E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Deep Freezer -40°C

Digital Temperature Display

4.3" Touch Screen Display for viewing the temperature, alarms and previous week records.

Lifetime Comfortable Access

Full length handle for easy access from all heights.

Key locking system

High quality locks for locking the door from unauthorized access.

Low-noise Compressor

Relative noise level as low as 50 db.

Lockable Castor wheels

Heavy duty lockable Castor wheels for locking the equipment in place.

Miniature Circuit Breaker

It cuts off the power to the equipment in case of voltage peaks to protect inner circuitry.

Perforated tray

3 or more trays are set for easy access to plasma bags.

Powder Coated

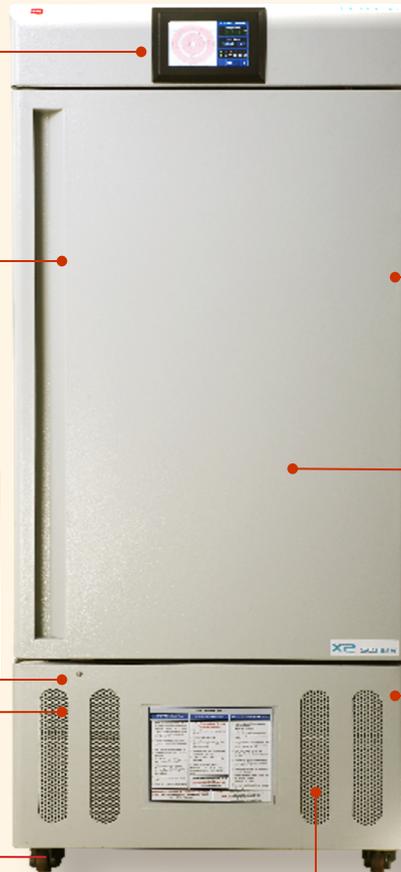
Powder Coating for Scratch and Corrosion Resistance

Ventilation Slits

Proper ventilation for the equipment to keep cool.

pre-filters

Easy access to removable and washable air filter enables resulting in better performance.



4.3" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for up to 48 hours on battery power .
- Selectable graph range.
- USB Port for data export via Pen-drive.



7.1" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for approx 24 hours on battery power .
- Event Management Through Barcoding system for better tracking system.
- GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile).
- E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Intelligent Ultra Deep Freezer -86°C

Application

- ✓ The Ultra Deep Freezer is an essential piece of equipment in the immune haematology, Microbiology department & in Blood bank that provides safe and convenient storage of Various Samples, Plasma & cryo bags.

Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 4.3"/7.1" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms
- ✓ Bar Code assistance for stock maintenance .
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central/Remote Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive*.

Salient Features

- ✓ Online regular Calibrator cum dual Safety controller enhances and retain the product quality.
- ✓ 4 or more weeks Thermograph Email facility Automatically and Manually as well.
- ✓ Barcode scanner for Bag event recording ,Issuing & withdrawal of Various sample through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ Ethernet ,WIFI and Present available Cellular Network connectivity (2G,3G,4G).
- ✓ Cool down time on off load 2.5 hours (25°C to -86°C).
- ✓ Cool down time full load 28 hours (25°C to -86°C).
- ✓ Hold over time on off load 3 hours 45min.(-86° C to -25°C)
- ✓ Hold over time full load 4 hours ((-86°C to -25°C).
- ✓ Compressor running ON/OFF cycle 65:35
- ✓ Power consumption 0.87 KWH/21KW Per day on full load.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.
- ✓ Web based online portal to register complaints.



**Ultra Deep Freezer
-86°C**

Ultra Deep Freezer -86°C



Product Catalog	Series	Model	Temperature Range	Capacity (in Liters)	Controller Type	Drawers	Certifications
AI 20301	X1	DF100	-70 to -86°C Set Point -80°C	100-200	4.3" Touch Screen	2	Notified CE,ISO
AI 20302		DF300		300-400		4	Notified CE,ISO
AI 20303		DF500		500-600		4	Notified CE,ISO
AI 20304		DF700		700-800		6	Notified CE,ISO
AI 30301	X2	DF100	-70 to -86°C Set Point -80°C	100-200	7.1" Touch Screen	2	Notified CE,ISO
AI 30302		DF300		300-400		4	Notified CE,ISO
AI 30303		DF500		500-600		4	Notified CE,ISO
AI 30304		DF700		700-800		6	Notified CE,ISO

Technical Specification

- ✓ Operating Temperature -50 to -86°C in ambient temperature of up to +45° C.Accuracy of ±1°C.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling of the equipment.
- ✓ Circular Temperature Chart Recording system with 5 years data storage Capacity along with Selectable Graph range.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Triple Layered silicon gasket sealing to prevent cold loss.
- ✓ Door Key lock & Provision for padlock facility with insulation of at least 120 mm.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants with insulation of 100-155 mm thick polyurethane foam.
- ✓ Individual/Single Inner doors with Magnetic/Mechanical latches ensure safe storage and less cold air loss during opening and closing of the door.
- ✓ Interior made from AISI 304 grade 22 /24 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Heavy duty Lockable adjustable Castor Wheels for locking the equipment in place .with Ground clearance of 100mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status , Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility even if the case power failure : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual) & Filter Indication.
- ✓ Non-invasive Automatic/Mechanical defrost with time & temperature guided cycle.
- ✓ USB port for Downloading of Thermograph via Pen Drive.
- ✓ Maintenance free Battery backup up to 48 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ Door stop on the right-hand side to stop the door from opening more than 90-120 degrees.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front, Sides and the back.
- ✓ Child /Security lock facility to prevent unauthorised access.
- ✓ Electrical requirements. 220V to 240V, 50 Hz, Single phase A.C.

OPTIONAL:

- ✓ IMC (Instrument Maintenance Card) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Washable filter for protection from dust on the Condenser that increases refrigeration performance.
- ✓ GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile) , SMS alerts on Events of High or Low Temperature ,Power Failure on Hierarchy based programmed management to ensure product safety.
- ✓ Event Management Through Barcoding system for better tracking system.
- ✓ Data Logging of Power supply, High/Low and Power Failure.
- ✓ Co2/N2 vacuum release port for Back up.
- ✓ E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Ultra Deep Freezer -86°C

Digital Temperature Display

4.3" Touch Screen Display for viewing the temperature, alarms and previous week records.

Lifetime Comfortable Access

Full length handle for easy access from all heights.

Key locking system

High quality locks for locking the door from unauthorized access.

Low-noise Compressor

Relative noise level as low as 50 db.

Lockable Castor wheels

Heavy duty lockable Castor wheels for locking the equipment in place.

Miniature Circuit Breaker

It cuts off the power to the equipment in case of voltage peaks to protect inner circuitry.

Perforated tray

3 or more trays are set for easy access to plasma bags.

Powder Coated

Powder Coating for Scratch and Corrosion Resistance

Ventilation Slits

Proper ventilation for the equipment to keep cool.

pre-filters

Easy access to removable and washable air filter enables resulting in better performance.



4.3" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for up to 48 hours on battery power .
- Selectable graph range.
- USB Port for data export via Pen-drive.



7.1" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for approx 24 hours on battery power .
- Event Management Through Barcoding system for better tracking system.
- GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile).
- E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Intelligent Blood Bank Equipments Platelet Incubator cum Agitator +22°C

Application

- ✓ The Platelet incubator cum Agitator is an essential piece of equipment in the immune haematology department & in Blood bank that provides safe and convenient storage of Platelets (RDP/SDP).
- ✓ The Platelet Incubator cum Agitator are designed for storage of platelet concentrates and are designed to provide continuous gentle horizontal motion to the packs, typically at a fixed speed and at a temperature of 20–24 °C

Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 7.1”TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Bar Code assistance for stock maintenance.
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3” Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive*.

Features

- ✓ Dual Safety Controller cum Online regular Calibrator.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ 4 weeks thermograph Email facility Automatically and Manually as well.
- ✓ Issuing & withdrawal of Blood bags through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ All kinds of Network Connectivity (Ethernet,WIFI and Cellular Network)
- ✓ Cool down time on off load 30 min (25°C to 22°C).
- ✓ Cool down time full load 1 hours (25°C to 22°C).
- ✓ Hold over time full load 1 hours (22°C to 25°C).
- ✓ Compressor running ON/OFF cycle 25:75
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ Web based online portal to register complaints.



Platelet Incubator cum Agitator +22°C



IRIS touch
screen



Heavy duty
Castor
Wheels

Platelet Incubator cum Agitator +22°C



Product Catalog	Series	Model	Temperature Range	Bags capacity	Controller Type	Certifications
AI 20401	X1	PIA -60	22°C± 2°C	60	4.3" Touch Screen	CE,ISO
AI 20402		PIA-120		120		CE,ISO
AI 20403		PIA-200		200		CE,ISO
AI 30401	X2	PIA -60	22°C± 2°C	60	7.1" Touch Screen	CE,ISO
AI 30402		PIA-120		120		CE,ISO
AI 30403		PIA-200		200		CE,ISO

Technical Specification

- ✓ Operating Temperature 22°C ± 2°C , Temperature gradient ±1°C with Accuracy of ±1°C.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Inkless & paperless smart chart recording system with 4 weeks chart storage capacity with adjustable graph range.
- ✓ Double pane door packed toughened glass with full visibility of units without door opening, thickness of 60-70 mm.
- ✓ RTD located in top portion of chamber for accurate temperature measurement.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Scratch resistant Mesh type sliding stainless SS 304 steel trays with sufficient airspace to ensure good air circulation.
- ✓ Door Key lock & Provision for padlock facility.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants. with insulation of 80 mm thick polyurethane foam.
- ✓ Interior made from AISI 304 grade 22/24 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Axial fan switches off automatically when you open the door and lamp glows for uniform lighting inside the cabinet.
- ✓ Heavy duty Lockable adjustable Castor Wheels to lock the equipment in place without moving.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status closed/open, Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual).
- ✓ Overvoltage and under voltage protection circuit.
- ✓ USB port for Downloading of Thermograph through Pen Drive.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ There isn't any requirement of external software life time for configuration and access of Thermograph data collection & analysis.
- ✓ IMC (Instrument Maintenance Card) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
- ✓ Self diagnosis of Error / faults & warnings.

This Equipment is under CE Compliance.

Platelet Incubator cum Agitator +22° C

Digital Temperature Display

4.3" Touch Screen Display for viewing the temperature, alarms and previous week records.

Lifetime Comfortable Access

Full length handle for easy access from all heights.

Key locking system

High quality locks for locking the door from unauthorized access.

Low-noise Compressor

Relative noise level as low as 50 db.

Lockable Castor wheels

Heavy duty lockable Castor wheels for locking the equipment in place.

Miniature Circuit Breaker

It cuts off the power to the equipment in case of voltage peaks to protect inner circuitry.

Perforated tray

Trays are set for easy access to Platelet bags.

Powder Coated

Powder Coating for Scratch and Corrosion Resistance

Ventilation Slits

Proper ventilation for the equipment to keep cool.

pre-filters

Easy access to removable and washable air filter enables resulting in better performance.



4.3" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for up to 48 hours on battery power .
- Selectable graph range.
- USB Port for data export via Pen-drive.



7.1" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for approx 24 hours on battery power .
- Event Management Through Barcoding system for better tracking system.
- GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile).
- E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Contact Shock/Blast Freezer -80

Application

- ✓ Contact shock/Blast freezer -80 is a Horizontal plasma freezer For rapid freezing to core temperature of plasma bag below -30°C in just <45 minutes to prevent decay of plasma coagulation factor & for storage of Plasma Bags.

Highlights

- ✓ Self Diagnosis of Error /Fault.
- ✓ Automatically mails the digital temperature circular chart at 3 e-mail IDs every weekend and can mail any time by using Manual Mail function.
- ✓ In case of fault occurrence, a SMS is sent to a primary & then Secondary number, on hierarchy based System, if not acknowledge the fault Primarily using Acknowledge function, then one same error SMS will forward to secondary number .
- ✓ Compatible with all GSM /WIFI & Ethernet Module for alarm text message and e-Mailing access of all History & Thermograph data.
- ✓ Port /Wireless system for Central Monitoring System for viewing the temperatures of all the blood bank equipment's at same place on 10.1" Touch Screen industrial computer.
- ✓ Validation with help of PT 100 up to 16 channel.

Features

- ✓ Online regular Calibrator
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ Four weeks & 6 month (additional) thermograph Email facility Automatically and Manually as well.
- ✓ Barcode scanner for Bag event recording with Synchronization.
- ✓ Issuing & withdrawal /Historization cycle of Blood bags through Barcode scanner and its History Sheet monitoring Via USB & Emailing Facility.
- ✓ Ethernet and Cellular Network connectivity (2G ,3G & 4G).
- ✓ USB port for chart downloading to pen drive*.
- ✓ Cool down time on off load 2 hours (25°C to -80°C).
- ✓ Cool down time full load 28 hours (25°C to -80°C).
- ✓ Hold over time full load 4 hours (-80°C to -25°C).
- ✓ Compressor running ON/OFF cycle 65:35
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC61010-1.
- ✓ 4 digit CE-1354 Notified Body by European union.
- ✓ Web based online portal to register complaints.
- ✓ IP-20 code as per EN60529.
- ✓ Equipment compliant with CFR 21 Compliance.



Contact Shock/Blast Freezer-80° C



Contact Shock/Blast Freezer -80



Product Catalog	Series	Temperature Range	Capacity (in Bags)	Drawers	Certifications
AI 30601	X2 7.1" Touch Screen	-50 to -86°C Set Point -80°C	6 Bags (CSF-06)	6	Notified CE,ISO
AI 30602	X2 7.1" Touch Screen		18 Bags (CSF-18)	6	Notified CE,ISO
AI 30603	X2 7.1" Touch Screen		24 Bags (CSF-24)	6	Notified CE,ISO

Technical Specification

- ✓ Operating Temperature -50 to -86°C in ambient temperature of up to +45° C. Accuracy of ± 1°C.
- ✓ Rapid freezing to core temperature of plasma bag below -30° C in < 45 minutes to prevent decay of plasma coagulation factor VIII & Fibrinogen. Arrangement of plasma bags are designed so that bags be putted in flat position.
- ✓ Microprocessor Based Eye level Positioning of 7.1" Touch screen for monitoring and controlling of the equipment.
- ✓ Circular Temperature Chart Recording system with 5 years data storage Capacity along with Selectable Graph range.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Triple Layered silicon gasket sealing to prevent cold loss.
- ✓ Door Key lock & Provision for padlock facility with insulation of at least 120 mm.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants with insulation of 100-155 mm thick polyurethane foam.
- ✓ Individual/Single Inner doors with Magnetic/Mechanical latches ensure safe storage and less cold air loss during opening and closing of the door.
- ✓ Interior consists of 3/6 Shelves made from AISI 304 grade 22 /24 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Ventilation-enforced refrigerating machine, vibration free, Cascade based hermetically sealed 2 to 4 low noise, Energy saving Compressors.
- ✓ Heavy duty Lockable adjustable Castor Wheels for locking the equipment in place .with Ground clearance of 100mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status , Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility even if the case power failure : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual) & Filter Indication.
- ✓ Non-invasive Automatic/Mechanical defrost with time & temperature guided cycle.
- ✓ USB port for Downloading of Thermograph via Pen Drive.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Display of Battery Percentage status, 0-100% charge in just 2 hours with over charging & deep discharge Protection.
- ✓ Door stop on the right-hand side to stop the door from opening more than 80-120 degrees.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front, Sides and the back.
- ✓ Child /Security lock facility to prevent unauthorised access.
- ✓ Electrical requirements. 220V to 240V, 50 Hz, Single phase A.C.
- ✓ Event Management/ Batch Freezing Through Barcoding system for better tracking system.
- ✓ Servo Voltage Stabilizer of Suitable rating will be a part of Machine as per technical specification .
- ✓ Dummy bags will be provided

OPTIONAL:

- ✓ IMC (Instrument Maintenance Card) Contains Details of Installation, PM's & Calibration Planned date with due date.
- ✓ Washable filter for protection from dust on the Condenser that increases refrigeration performance.
- ✓ GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile) , SMS alerts on Events of High or Low Temperature ,Power Failure on Hierarchy based programmed management to ensure product safety.
- ✓ Data Logging of Power supply, High/Low and Power Failure.
- ✓ Vacuum relief/Pressure equalization Port for easy access after door opening.
- ✓ Co2/N2 port for temperature Back up.
- ✓ E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Authentic Instruments

www.authenticinstruments.com

Contact Shock/Blast Freezer-80°C

Digital Temperature Display

7.1 Touch Screen Display for viewing the temperature, alarms and previous week records.

Lifetime Comfortable Access

Full length handle for easy access from all heights.

Key locking system

High quality locks for locking the door from unauthorized access.

Low-noise Compressor

Relative noise level as low as 65 db.

Lockable Castor wheels

Heavy duty lockable Castor wheels for locking the equipment in place.

Miniature Circuit Breaker

It cuts off the power to the equipment in case of voltage peaks to protect inner circuitry.

Perforated tray

3 or more trays are set for easy access to plasma bags.

Powder Coated

Powder Coating for Scratch and Corrosion Resistance

Ventilation Slits

Proper ventilation for the equipment to keep cool.

pre-filters

Easy access to removable and washable air filter enables resulting in better performance.



7.1" Touch Screen

- Multi Colour Temperature display with inbuilt circular temperature chart recording system with data storage capacity of up to 5 years.
- Battery enabled alarm system that operates even in the case of power failure
- The Information Centre remains in operation for approx 24 hours on battery power .
- Event Management/Batch Freezing Through Bar coding system for better tracking system.
- GSM-Module for alarm text message transmission on events (e.g., to a Laptop, mobile).
- E-mailing History sheet through Ethernet ,WIFI & Cellular Network connectivity.

Intelligent Blood Bank Equipments Blood Component Separator

Application

- ✓ Blood Component Separator/Refrigerated Centrifuge/Cryofuge The whole blood which is a mixture of cells, colloids and crystalloids can be separated into different blood components namely packed red blood cell (PRBC) concentrate, platelet concentrate, fresh frozen plasma and cryoprecipitate.
- ✓ Each blood component is used for a different indication; thus the component separation has maximized the utility of one whole blood unit. Different components need different storage conditions and temperature requirements for therapeutic efficacy. A variety of equipments to maintain suitable ambient conditions during storage and transportation are in vogue.



Highlights

- ✓ 4.3" TFT HMI touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Bar Code assistance for stock maintenance.
- ✓ Robust Construction with ergonomically design.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive*.

Features

- ✓ Fully automatic controlled with HMI 4.3" touch screen.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ Three weeks thermograph Email facility Automatically and Manually as well.
- ✓ Barcode scanner for Bag event recording
- ✓ Issuing & withdrawal of Blood bags through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ Ethernet and Cellular Network connectivity (2G, 3G & 4G)
- ✓ Maximum speed 4500 rpm Maximum RCF (Relative Centrifugal force) for blood bags: 6500g.
- ✓ Protection & Alarm, in event of power interruption or complete failure, data remain stored in memory. Password Protection to prevent unintentional switch off and also unauthorized opening of the equipment.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.

Blood Component Separator



8 Buckets Adapter



Wind-shield



Double Cavity Buckets



Castor Wheels

Blood Component Separator



Product Catalog	Series	Temperature Range	Bag capacity	RPM	Bucket Size	Certifications
AI 20501 A	X1 4.3" Touch Screen	-20 to +40°C	6 Bags (RC-06)	4500	6 X 1000 ML	Notified CE,ISO
AI 20501 B			6 Bags (RC-06) Windshild			
AI 20502 A			8 Bags (RC-08)	4500	4 X 2000 ML	Notified CE,ISO
AI 20502 B			8 Bags (RC-08) Windshild			
AI 20503 A			12 Bags (RC-12)	4500	6 X 2000 ML	Notified CE,ISO
AI 20503 B			12 Bags (RC-12) Windshild			
A1 20504 A			16 Bags (RC-16)	4500	8 X 2000 ML	CE,ISO
AI 30501 A			X2 7.1" Touch Screen	-20 to +40°C	6 Bags (RC-06)	4500
AI 30501 B	6 Bags (RC-06) Windshild					
AI 30502 A	8 Bags (RC-08)	4500			4 X 2000 ML	Notified CE,ISO
AI 30502 B	8 Bags (RC-08) Windshild					
AI 30503 A	12 Bags (RC-12)	4500			6 X 2000 ML	Notified CE,ISO
AI 30503 B	12 Bags (RC-12) Windshild					
AI 30504 A	16 Bags (RC-16)	4500			8 X 2000 ML	CE,ISO

Technical Specification

- ✓ **Operating Temperature** -20 to +40°C, in ambient temp. of +10 to +40°C with relative humidity of 90% ,Temperature gradient $\pm 1^\circ\text{C}$, Accuracy of $\pm 1^\circ\text{C}$.
- ✓ **Microprocessor Based** Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Floor standing & movable on **castor wheels** (within room only) : Refrigerated centrifuge for separation of components from whole blood.
- ✓ Inkless & paperless smart chart recording system with 4 weeks chart storage capacity with adjustable graph range.
- ✓ **Maximum speed 4500 rpm** Maximum RCF (Relative Centrifugal force) for blood bags: **6500g**.Programmable time 0 minute to 99 hours with minimum resolution of 0.1 minute.With Minimum Count of 10 Rpm.
- ✓ **Programmable** memory with tamper proof facility with ability to store more than 10 Programs.
- ✓ **Predefined program** and parameter stored in the memory.
- ✓ **Digital display** (real time and set target) of temperature, speed, acceleration time, deceleration time, real time and processing RCF with minimum no. of 4 digit resolution.
- ✓ **sturdy all-steel design** with stainless steel rotor & chamber, easy to clean, corrosion resistant paintings, provision of both drain and condensed water collection container.
- ✓ **Optical & acoustical Alarm** : lid interlock ,Sensor open/short (only visual),imbalance detection, over temperature, rotor over speed.
- ✓ **Swing-out buckets**, Swing-out rotors with metal buckets, with or without wind shielded, suitable adapters for 06/08/12/16 blood bags with SAGAM bag and empty satellite bags with In line filter system and,
- ✓ **Removable plastic cups** with smooth edges built in hook adapter to spin small volume of blood bags or to spin buffy coat or to hold single/double/triple/Quadruple blood bags with provision to hold balancing weights ,Facility to hang the rotor lid at the centrifuge door.
- ✓ **Motor Imbalance detection**, automatic shutdown of centrifuge if rotor load difference on opposite sides is **50 grams** or more with appropriate indicator. Motion sensors drives unbalance detection within **600 rpm** . Also have the facility to stop the machine at anytime Soft touch of emergency /Main break.
- ✓ **Protection & Alarm**, in event of power interruption or complete failure, data remain stored in memory. Password Protection to prevent unintentional switch off and also unauthorized opening of the equipment.
- ✓ **Acceleration** and declaration profiles are independently adjustable with nine brake levels and option for free coasting.
- ✓ **Provision** for Eternal or Central Monitoring device connectivity.
- ✓ **CFC & HCFC free** non-flammable refrigerants.
- ✓ Interior made from AISI 304 grade 22 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ **Noise & Vibration** is negligible $\leq 55 \text{ dB}$.
- ✓ **Safety features** : Equipped with Vibration Sensor to monitor abnormal vibration. automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator. Motion sensors drives unbalance detection. internal safety relays to automatic shutdown of machines while any accidental situations.
- ✓ **Electrical Lock** : Lid/door automatic Electrical safety lock to avoid opening of lid while on running conditions. during power failure the safety lid lock remains closed during run as long as rotor moving also with provision of mechanical opening.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service, Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Voltage Stabilizer to be provided with each unit of 10KVA, I/P : 160-260Volts O/p : 220-240 Volts ,Power Cord of 2.5 Meter with 16 Amp top (Optional)
- ✓ Electrical requirements. 220V to 240V, 50 Hz, 32 Amp. Single phase A.C.

* RC 16 is under CE compliance

Intelligent Blood Bank Equipment Blood Component Separator

Interior made from AISI 304 grade 22 SWG polished Stainless Steel.

Digital Temperature Display
Fully automatic controlled with HMI 4.3" touch screen.

Low-noise Compressor
Relative noise level as low as ≤ 55 dB.

Powder Coated
Powder Coating for Scratch and Corrosion Resistance

Ventilation Slits
Proper ventilation for the equipment to keep cool.

pre-filters
Easy access to removable and washable air filter enables resulting in better performance.



Plastic Bucket



Double cavity bucket



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