

# Making Global Quality Accessible



**REMI**  
Healthcare





**REMI GROUP**, established In 1960 by the late visionary Mr. C. K. Saraf along with his son Mr. V. C. Saraf (present Chairman) , has diversified into multi-product manufacturing divisions to become one of India's most trusted brands. Each division of **REMI GROUP** has its headquarters in Mumbai & is involved in Manufacturing, Marketing & Distribution throughout India with more than 14 branches through its network of over 950 dealers & exports to more than 50 countries around the globe. **REMI** is synonymous with reliability & fair business practices.

**REMI Instruments and Healthcare Division** is a pioneer in manufacturing Laboratory /Magnetic Stirrers and Centrifuges, Blood bank refrigerators /freezers meeting more than 50% of Indian demand. Our best in technologies products made with our manufacturing experience of over 50 years ensure that **REMI** instruments are user friendly and always available close to you. This has enabled us to sell more than a million units till date. Our success is an outcome of our unwavering focus on our core values-Quality, Integrity, Reach & Customer Focus

Placing a strong emphasis on delivering hi-tech quality products that are simple to operate, durable, safe and reliable, we have established Quality Management Systems in place. All products manufactured by us are made to comply with national/international standards as per customer requirements.

**REMI** is committed to be in touch with the latest technology to offer innovative products and upgrade existing products based on customer feedback. Efficient delivery schedules, cost-effective prices and exceptional after sales service has made **REMI** a trusted name in the industry

With technology as its backbone, **REMI** is continuously evolving and is in the process of upgrading existing products based on customers' feedback as well as introducing products that set the benchmark for quality.



## From the Chairman's Desk

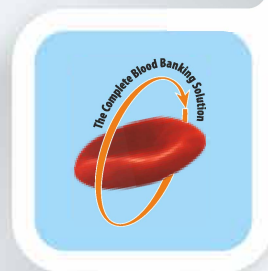
REMI is synonymous with reliability. With over half a century of serving scientific and healthcare professionals, REMI, today is a globally well-known and trusted brand with a pan India distribution network of more than 950 dealers. Our branches across India combined with our distribution network ensure that REMI products are available immediately at a location close to you. REMI today is considered a pioneer in laboratory & healthcare instruments sector due to its expertise in adopting technology to offer performance oriented quality products at affordable price points.

For all this achievements and awards, I wish to recognize and thank all our stakeholders for continuously supporting REMI in its various endeavors. I also wish to heartily thank our customers for their feedback, which is always our greatest source of learning and improving our products. Special thanks to our dedicated dealers for the continued commitment and synergies as we expand the boundaries with modern technology that simplifies the work of our customers.

Our commitment towards providing technically sound products and exceptional after sales service remains strong. Let me reiterate our promise once again to keep the momentum going, to cross milestone after milestone in pursuit of being the partner of choice to our customer. Let us deliver world-class quality products to make life simple and beautiful

It is with great pride & immense pleasure that I present our new catalogue to you. The catalogue explains in detail the new products that we are introducing now along with the upgradation in existing product lines done by us. I invite you to go through the catalogue and see which products best fit your organization.

**V. C. Saraf**  
Chairman



# Blood Collection Monitor

## BCM 10 Ultra



**BCM 10 Ultra**

REMI BCM-10 Ultra, A new generation portable blood mixer, ideally suited for blood collections in donation room as well as outdoor camps. Inbuilt key features along with microprocessor based controls ensure smooth & gentle mixing process, volume accuracy, precise monitoring of time & flow rate.

The user friendly features of BCM 10 Ultra help phlebotomist to have complete control on donation process, thus ensuring donor safety & comfort.

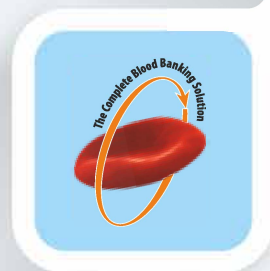
### Technical Specifications

Parameter	Unit	BCM 10 Ultra
Mixing	Cycle / minute	12-14
Battery back up	Hours	Up to 10
Maximum volume	ml	Up to 999 (net collection)
Taring range	gm	Up to 999
Dimensions W x D x H	mm	280 x 270 x 255
Net weight	Kg	5
Compliance	IEC 60601-1, IEC 60601-1-2	
Electrical	220-240 volts, 50 Hz, SINGLE PHASE	

### Salient Features:

- Precise control on volume collection (Microprocessor based system), best in class accuracy (deviation  $\leq 1\%$ )
- Automatic tarring of blood bags
- Automatic change over on battery mode in case of power failure (Battery backup 10 hrs)
- Pause facility to temporarily suspend the donation process
- Gentle & smooth motorized clamping of blood bag tube prevents damage to the live blood cells
- Broad base tray with non-slip surface accommodates all type of blood bags
- Automatic release of the bag when lifted, after donation
- Removable magnetic cradle: Single grip tray removal
- Recall of last blood collection parameter
- Audio / Visual Alarm
  - Flow rate ( $< 20$  ml/min or  $> 180$  ml/min),
  - Completion of collection
  - Battery depletion
- Visual indication & displays
  - Set volume (ml)
  - Actual volume (ml)
  - Collection process status (Run / Stop / Pause)
  - Actual weight (gm)
  - Flow rate (ml/min)
  - Time of collection (min)
  - Battery status





# Blood Collection Monitor BCM 20 Ultra

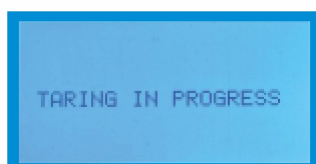
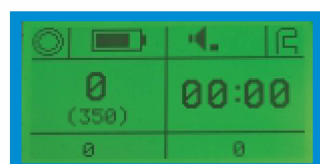
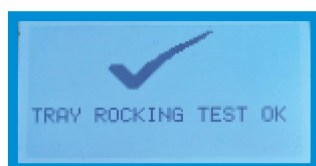
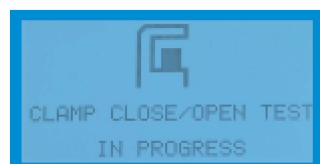


**BCM 20 Ultra**

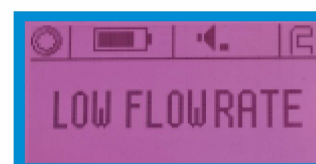
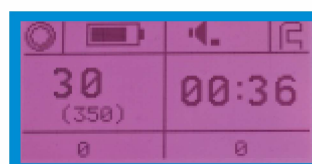
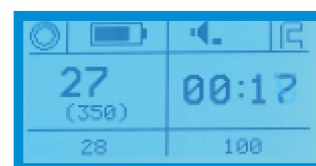
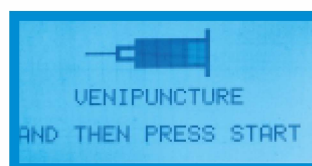
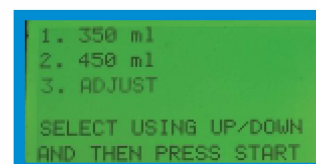
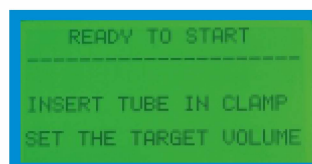
REMI BCM-20 Ultra, Next generation blood collection monitor with interactive multicolor LCD display. Helps technicians to follow the SOP's ensuring standardization of the collection process

Removable magnetic tray ensures easy maintenance & transportation. The long lasting battery backup of 24 Hrs makes it an ideal choice for outdoor camps.

## Self Diagnosis & System Checks



## Interactive Multicolor Process Guide





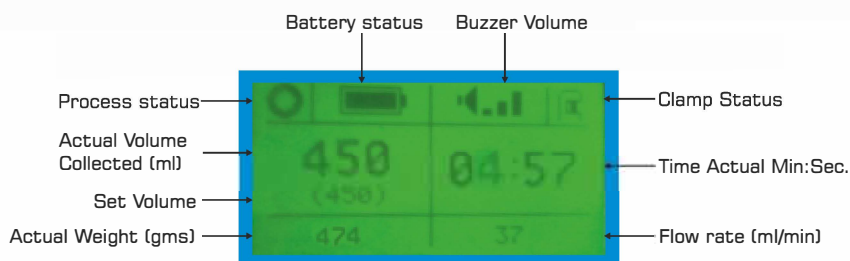


# Blood Collection Monitor

## BCM 20 Ultra

### Salient features:

- Interactive multicolor display
- Adjustable alarm volume
- Encapsulated design allowing easy cleaning. No liquid intrusion in the device
- Carrying case for device including all accessories
- Integrated calibration function with the use of weights
- Pause facility to temporarily suspend the donation process
- Precise control on volume collection (Microprocessor based system), best in class accuracy (deviation  $\leq 1\%$ )
- Removable magnetic cradle: Single grip tray removal
- Automatic tarring of blood bag weight
- Automatic release of the bag when lifted, after donation
- Automatic central parking
- Recall of last blood collection parameter
- Audio / visual alarm
  - Flow rate (  $< 20$  ml/min or  $> 180$  ml/min),
  - Completion of collection
  - Battery depletion
- Visual indication & displays
  - Set volume (ml)
  - Actual volume (ml)
  - Collection process status (Run / Stop / Pause)
  - Actual weight (gm)
  - Flow rate (ml/min)
  - Time of collection (min)
  - Battery status



### Technical Specifications

Parameter		BCM 20 Ultra
Mixing	Cycle / minute	12-14
Battery back up/ rating	Hours	Up to 24 (with overcharge protection)
Max. Volume	ml	Up to 999 (net collection)
Maximum Tarring capacity	gm	Up to 999
W x D x H	mm	275 x 318 x 205
Net Weight	Kg.	5
Compliance	IEC 60601-1, IEC 60601-1-2	
Electrical	220-240 volts, 50 Hz, SINGLE PHASE	



## Blood Donor Chair



- Contoured for better spine support, increases donor comfort & safety
- Natural feet high position increases blood flow, supports donation process
- High grade modulated FRP body (Fibre Reinforced Polymer) on steel frame
- Motorized remote slide control for head low - feet high (vice versa) position
- Non deformable PU foam with lumbar support grooves
- Long lasting eco-leather upholstery for easy maintenance
- Broad & adjustable hand rests supports phlebotomy
- Lockable castors to ensure firm ground holding
- Both side adjustable IV stand with 3 trays for accessories
- Interface for blood collection monitor

### Technical Specifications

Parameter	D212 1X
Seat width	652 mm
Length	1500 mm
Height max head side	1210 mm
Height max leg side	1050 mm
Seat height from floor	635 mm
weight	75 kg
Weight capacity	200 kg
Hand rest dimension (W x L mm)	560 x 235
Compliance	IEC 60601-1, IEC 60601-1-2

Supply : 220-240 volts, 50 Hz, SINGLE PHASE



## Benchtop Tube Sealer WeldOn-B



**WeldOn-B**

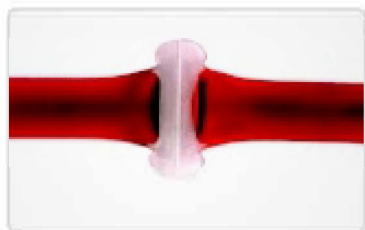
### Salient Features

- Senses the blood bag tube for automatic sealing process
- Anti-spark and overheat protection system to avoid damage to system & tubing
- Continuous status updates on LCD :
  - Ready to seal,
  - Sealing in process
  - Sealing Completed
- Easy to remove sealing head cap for quick cleaning
- Seal with clear break line for snap-apart separation
- Splash guard for technician safety

WeldOn-B is a robust benchtop sealer with consistent performance. Ideally suited for blood component separation labs

WeldOn-B helps to keep the blood bag system completely sterile. Ensures quality sealing with clear rupture line for easy tear-apart segments.

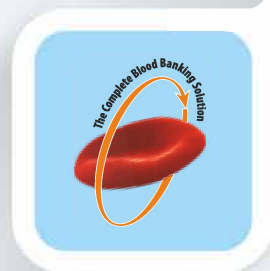
Safety features & monitoring system makes it an ideal choice of users.



**Seal with clear break line  
for snap-apart separation**

### Technical Specifications

Parameter	WeldOn-B
Dimension (W x D x H) (mm)	220 X 200 X 120
Weight (Kg)	4
RF Frequency	40.68 MHZ
RF Output	100 watt
Seal time	1.5 Sec (auto adjustable)
Sealing Type	Automatic
Input Voltage	230 V, 50 Hz



## Quality Stripper RQS A



**RQS A**



### *Supporting your efforts to excel in Quality*

RQS A is an automated tube stripper for smooth & effortless stripping of blood bag tubes. The proper mixing of blood present in the tube with the entire content of blood bag helps in anticoagulation of blood in the tubing, prior to preparing segments. This is an integral & important process during blood collection & quality component preparation.

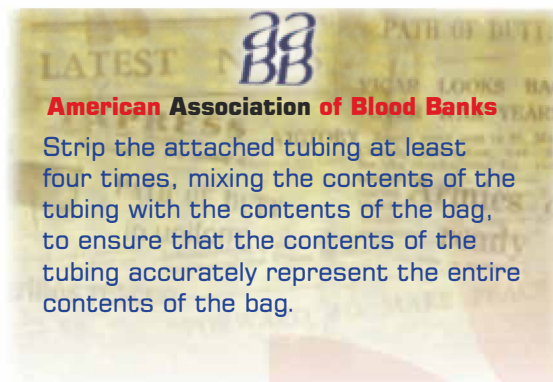
The ergonomically designed hand held automated tube stripper helps in improving compliance as manual tube stripping makes technician's prone to wrist injuries due to ergonomic causes. The automation also helps in standardization of the process & adherence to the SOP's. The battery backup for 1000 cycles in RQS-A makes it an ideal choice for blood donation camps.

### **Salient Feature**

- Motorized metallic roller & one free roller for smooth tube stripping
- Designed for easy manual operation with convenience
- Easy to use hand roller
- Portable battery pack, backup 1000 cycles
- Automatically strips tube once the metallic handle is pressed
- Uniform radial force across the tube—prevents abrupt manual pressure
- Audio visual alarm for overload protection
- Guiding groove for correct tubing position, fed through rollers
- Suitable for all commercially available blood bags

### **Technical Specifications**

Parameters	RQS A
Overall Dimensions (LXBXH)	180 x 68 x 85 mm
Max Tube Diameter	6.5 mm
Stripping wheel diameter	33.5 mm
Max Stripping Speed	325 RPM
Weight without power module	600 gm
Battery backup	1000 cycles
Operating Temperature	0 to 40°C
Input Supply	110 – 240 V







## Manual Plasma Expressor



**XPRESS - M** is specially designed plasma expressor for separating out the blood components. The front panel is loaded with high tension spring for quick transfer of plasma into other bag.

**XPRESS - M** is ergonomically designed for long lasting trouble free operations

### Salient Features

- User friendly with see through front panel to allow visibility of layer movement
- Spring loaded transparent compression plate for quick plasma expression
- Adjustable spring tension
- Ergonomic handle for easy operation
- Suction holders for firm base grip
- Metallic base covered with rounded ABS body
- Rust free, easily cleanable surface

### Technical Specifications

Parameter	Unit	Xpress M
Dimensions (W x D x H)	mm	165x230x280
Weight	kg	3.5
Body Construct		Powder Coated CRCA Steel
Front Panel		Acrylic



## Automated Plasma Expresser Xpress A



**Xpress A**

Xpress A is a semi-automated plasma expressor for quick & easy component separation. The optical sensing of RBC's & automatic clamping reduces manual error & prevents RBC contamination.

### Salient Feature

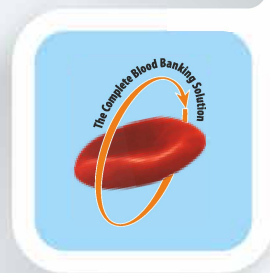
- ✔ Automated fast acting clamp mechanism, no RBC contamination
- ✔ Spring loaded transparent compression plate for quick plasma expression
- ✔ Adjustable spring tension
- ✔ Ergonomic handle for easy operation
- ✔ LED power indication, buzzer alarm on clamping
- ✔ Suction holders for firm base grip
- ✔ Flexibility of manual operation

### Technical Specifications

Overall Dimensions	167x270x290mm (LXBXH)
Max Tube Diameter	6.5mm
Weight	4 kg
Operating Temperature	0 to 40°C
Input Supply	230 V, 50 Hz



**Control Panel**



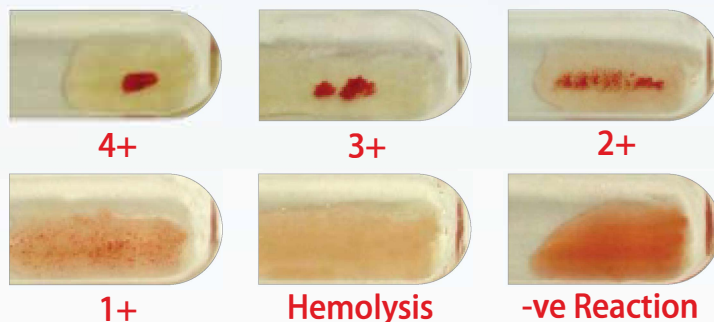
## QuikFuge



**QuikFuge**

**Quickly grades agglutination reactions  
within 15 seconds**

**Grading of weak agglutination reactions...  
...possible by precise & quick spin**



**Rightly packed RBC button has**  
sharp edges - clear background - easy re-suspension

### Salient Features:

- Single hand removal of rotor head from spindle
- Retainer silicon ring to hold the tubes firmly with rotor
- The interchangeable heads work like holders, avoids individual handling while
  - Sample filling
  - Sample centrifugation
  - Sample incubation
  - Sample emptying or pouring off
- Sample tube position
  - **In Motion:** Swing out to an angle of 45° - For quick cell deposition
  - **At Rest:** Resume a vertical position - For easy pouring off supernatant solution after button is formed
- Tube positions are numbered for quick identification
- **Easy cell washing** : Supernatant solution can be poured off from all the tubes simultaneously by inverting rotor head

**Versatile centrifuge for quick,  
innovative cell washing & testing**

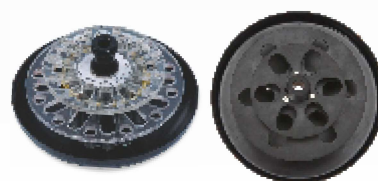
- **Blood typing**
- **Cross matching**
- **Genotyping**
- **Phenotyping**
- **Coombs testing**
- **Manual cell washing**



## QuikFuge



- Easy switch over for preset stable speed for 400g & 1000g with switch over button
- Quick time setting in seconds & minutes
- Stable speed output even under unstable voltage conditions
- Preset acceleration & deceleration for quick operations
- Buzzer on alarm for process status
- Door interlock
- Last parameter recall



**Standard Accessory**



**Agglutination Reaction**

### Technical Specifications

Parameters	QuikFuge
Controller	Microprocessor based
Dimensions (W x D x H) in mm	330 x 270 x 295
Rotor	5 ml x 12 nos & 10ml x 6 nos
Tube dimensions	dia 12, Length 75 mm & dia 13, Length 100 mm
Display	LED
RCF	Preset 1000g (High) & 400g (Low)
Timer	5 Sec to 9 minutes
Brake	High
Weight (kg)	20
Electrical	220-240 Volts, 50 Hz, SINGLE PHASE





## VDRL Shaker VDS 300



**VDS 300**

VDS 300 is specially designed for smooth & uniform mixing of samples, Helps to standardize the process with utmost user convenience

### Salient Features:

- Universal platform with adjustable roller to fix the sample in micro-plate, petri-dish, glass vessels or test tubes
- Brush less motor for maintenance free operations
- Adjustable rollers to fix samples of different sizes
- Rubber cushion help in stable sample holding

### Applications :

- VDRL testing
- Microbiology
- Molecular biology
- Pathology
- Biotechnology

### Technical Specifications

Parameter	VDS 300
Dimension (W x D x H)	270 x 260 x 125 (mm)
Platform size	7" x 11"
Shaking orbit	10 mm
Countdown timer	0-99 minutes
Min speed	50 - 300 RPM
Power Supply	220-240 v, 50 Hz, Single phase



## REMI Heating Incubators RHI Series



**RHI 80**

REMI heating incubators - RHI series are suitable for achieving precise incubation temperature of different laboratory samples required for optimizing reaction sensitivity

### Salient Features:

- Microprocessor controller (with timing function)
- Interior is made of polished stainless steel with rounded corners for easy & quick cleaning
- The space between the shelves is adjustable.
- Full inner glass door for easy observation
- Self-check function easy to identify problems.
- Over temperature and temperature difference alarms
- Insulated Door for better temperature holdover

### Technical Specifications

Parameter	RHI 50	RHI 80
Internal dimension (W × D × H) mm	415 x 360 x 355	500 x 400 x 400
External dimension (W × D × H) mm	690 x 500 x 500	780 x 530 x 560
Chamber volume (Litres)	50	80
Shelves (Nos)	2	
Temperature range	RT +5 <sup>o</sup> ~65°C	
Display resolution	0.1 Temperature stability ± 0.5°Cz	
Timing range	1 min to 9999 min	
Type of heating	Forced air convection	
Power consumption	250 W	350W
Electrical requirement	220V, 50Hz, Single phase	



## Biological Refrigerators SeroCool Series



**Serocool 300**

### Safe storage for Biologicals

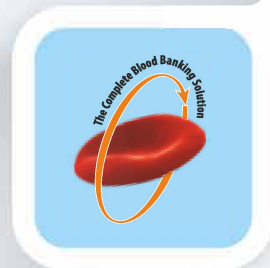
SEROCOOL series are biological refrigerators, specially designed for storage of temperature sensitive reagents, kits, & samples, Serocool meets requirement of Pharmacies & laboratories, i.e.; Pathology, Biochemistry, Hematology, Microbiology and Serology, Genetics & Diagnostics

### Salient Features :

- Microprocessor based temperature control,
- Wide 4" LCD display & alarm system
- Inner surface of medical grade compression molded plastic
- Outer body of high grade polished galvanized steel
- Automatic defrost mechanism
- Energy efficient due to insulation of high core density
- Uniform cooling by forced air circulation
- Adjustable coated wire mesh shelves
- Clear product visibility with dual glass door

### Technical Data

Parameter	Serocool 300	Serocool 400
Capacity (liters)	300	400
Temperature range	1° C ~ 10° C	
No. of Door (Glass)	1	1
Baskets / Shelves	4	4
External dimensions (mm)		
Width	584	610
Depth	584	584
Height	1702	1981
Supply	220-240 V, 50 Hz, Single Phase	



# Blood Bank Refrigerators







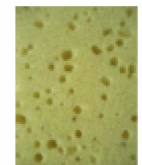
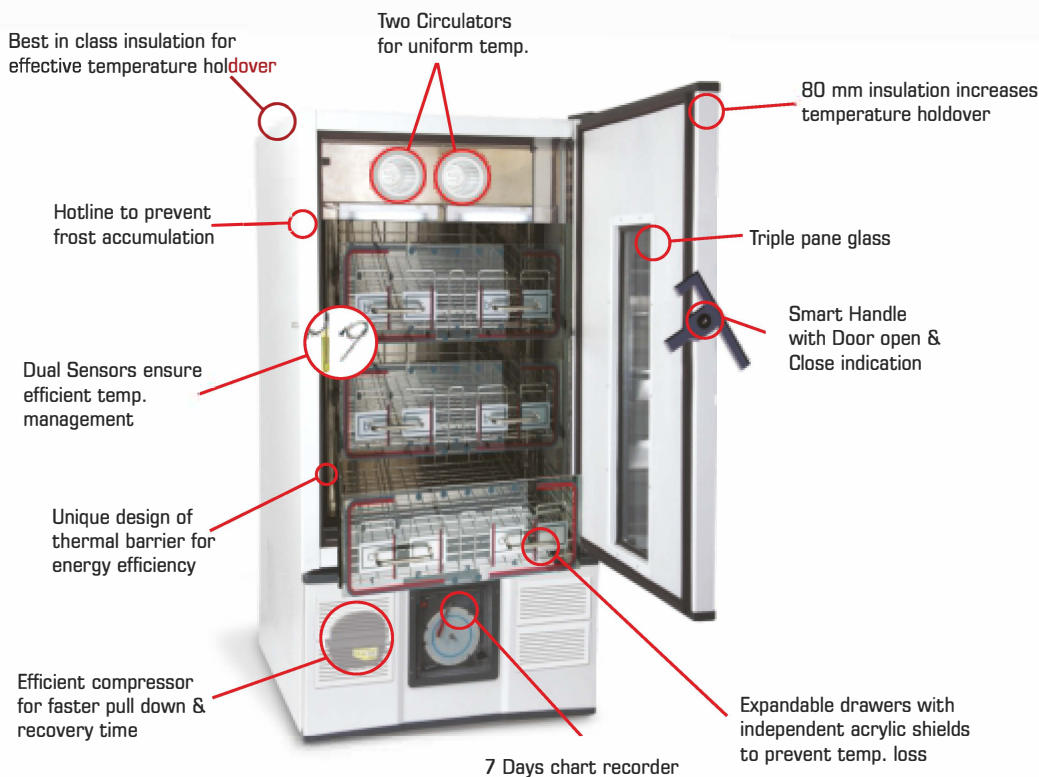
## Blood Bank Refrigerators

REMI Blood Storage Refrigerators are specially designed to meet the storage requirements of whole Blood & Packed Red cells.

**Cabinet Construction:** Durable, corrosion resistant materials are used to provide years of reliable performance. The outer body is made up of powder Coated CRCA Steel & internal cabinet of Stainless Steel 304 (AISI Grade, Non Corrosive and Non Magnetic). The unit is fitted with heavy duty castor wheels for ease of movement.

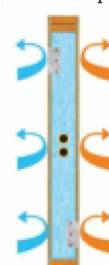
**Temperature Control & Monitoring:** Microprocessor integrated system provides excellent temperature accuracy. 7 days circular chart recorder & audio visual alarm system helps to indicate storage conditions continuously.

**Variants:** REMI Blood Storage Refrigerators are available as BR & BR Ultra variants. Both the variants available in different capacities ranging from 72 bags to 375 bags capacity. Also higher capacity variants available for blood centers handling larger volumes.

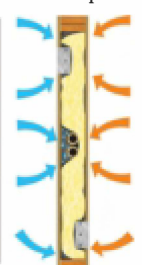


Uniform PUF Non-Uniform PUF

No Air Gap



Air Gaps



No Gaps & No Open air pockets  
 - Avoids loss of Temp.  
 - Avoids Moisture Accumulation  
 - Nullify impact of temp, & time on PUF quality



## Blood Bank Refrigerators

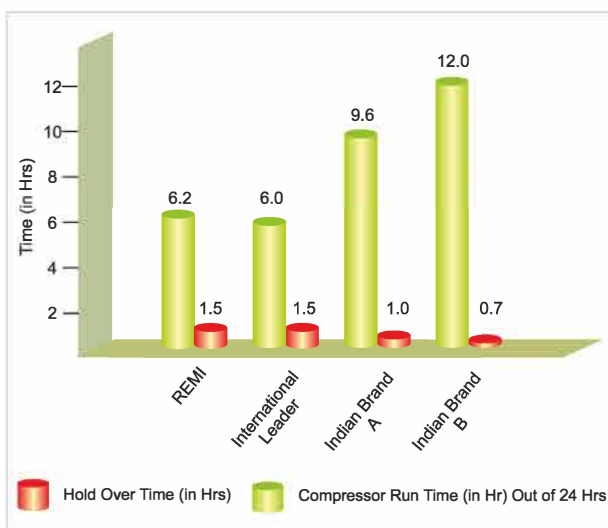
### Salient Features :

- Auto defrost mechanism to prevent frost formation
- Self-diagnosis & display of errors
- Safety thermostat for avoiding negative temperature
- Triple pane glass to prevent temperature loss
- Settable parameters for
  - Temperature set point
  - High / low temperature alarm point
  - Buzzer off time
- Audio / Visual alarms for
  - Temperature high / low
  - Power failure
  - Sensor open / Short
  - Door Open
  - Compressor on
  - Power on
- Compatibility with REMI XS for wireless data logging



7" Touch Screen  
(in Ultra Model)

### Compressor Functioning & Holdover Time (Best in Class Insulation)



\* Data on file

### Touch Screen Display

- 7" Multicolored touch screen with user interface
- Displays temp, alarms, date & time
- Data logging with multiple option & transfer via Ethernet, USB port
- PLC (Programable logic controller) with internal memory of 1500 records
- Battery backup for display, alarms & off-line data logging
- Password protected settings for system control & notifications
- Onscreen access for data logs, temperature graph, system status, troubleshooting, etc.
- REMI 'Datasoft' software for generating various reports, SMS alerts & analysis (Optional)



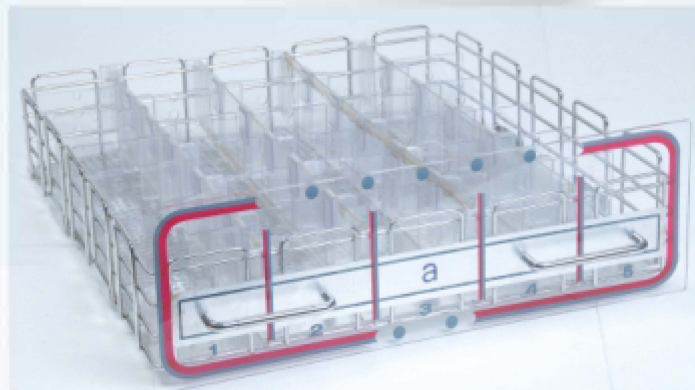
## Blood Bank Refrigerators



- **Clever-Chip** (Ultra Model)
  - Provides crucial backup to maintain temperature in event of sensor failure



- Door close with **green** light indication
- Key Lock
- Control inner light
- Door open with **red** light indication



**Flexi-Storage** (optional)  
Modular acrylic partitions to store blood bags upright

### Technical Specifications

Particulars	BR 50	BR 120	BR 120 Ultra	BR 180	BR 180 Ultra	BR 240	BR 240 Ultra	BR 300	BR 300 Ultra
Temperature control	Microprocessor	Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Display	LED	LED	7" Touch Screen	LED	7" Touch Screen	LED	7" Touch Screen	LED	7" Touch Screen
Internal dimensions W x D x H (mm)	540 x 520 x 560	660 x 765 x 650		660 x 765 x 850		660 x 765 x 1050		660 x 765 x 1250	
External dimensions W x D x H (mm)	640 x 685 x 1185	800 x 945 x 1205		800 x 945 x 1435		800 x 945 x 1635		800 x 945 x 1835	
Capacity (Liters)	158	330		430		530		630	
Capacity of blood bags	Up to 72	Up to 150		Up to 225		Up to 300		Up to 375	
Number of drawers	2	2		3		4		5	
Drawer capacity	Up to 36 bags	Up to 75 bags							
Temperature	Preset at 4°C ± 0.5°C								
Temperature alarm	≥ 6°C & < 2°C, Audio visual alarm								
Internal body material	Stainless Steel 304 ( AISI grade, Non corrosive, Non magnetic )								
External body material	Powder coated CRCA steel								
Insulation	50mm	80 mm, CFC free polyurethane foam							
Illumination	Fluorescent Lamp								
Recorder	Seven days circular chart recorder								
Noise level	Less than 65 db (A)								
Battery backup (Controller)	Rechargeable, maintenance free battery for Display, Alarm system & Chart recorder								
Recommended voltage stabilizer	VS 01	VS 02				VS 03			
Electrical	220-240 volts, 50 Hz, Single Phase								
Compliance	EN 60601-1,EN 60601-1-2, CE, US FDA								

## High Capacity Storage Solutions



Walk-in Chamber  
WBR



BR 400 / 500



### Stand-by dual refrigeration for backup

Ideally suited for storage of blood bags  
in big hospitals, laboratories & blood banks



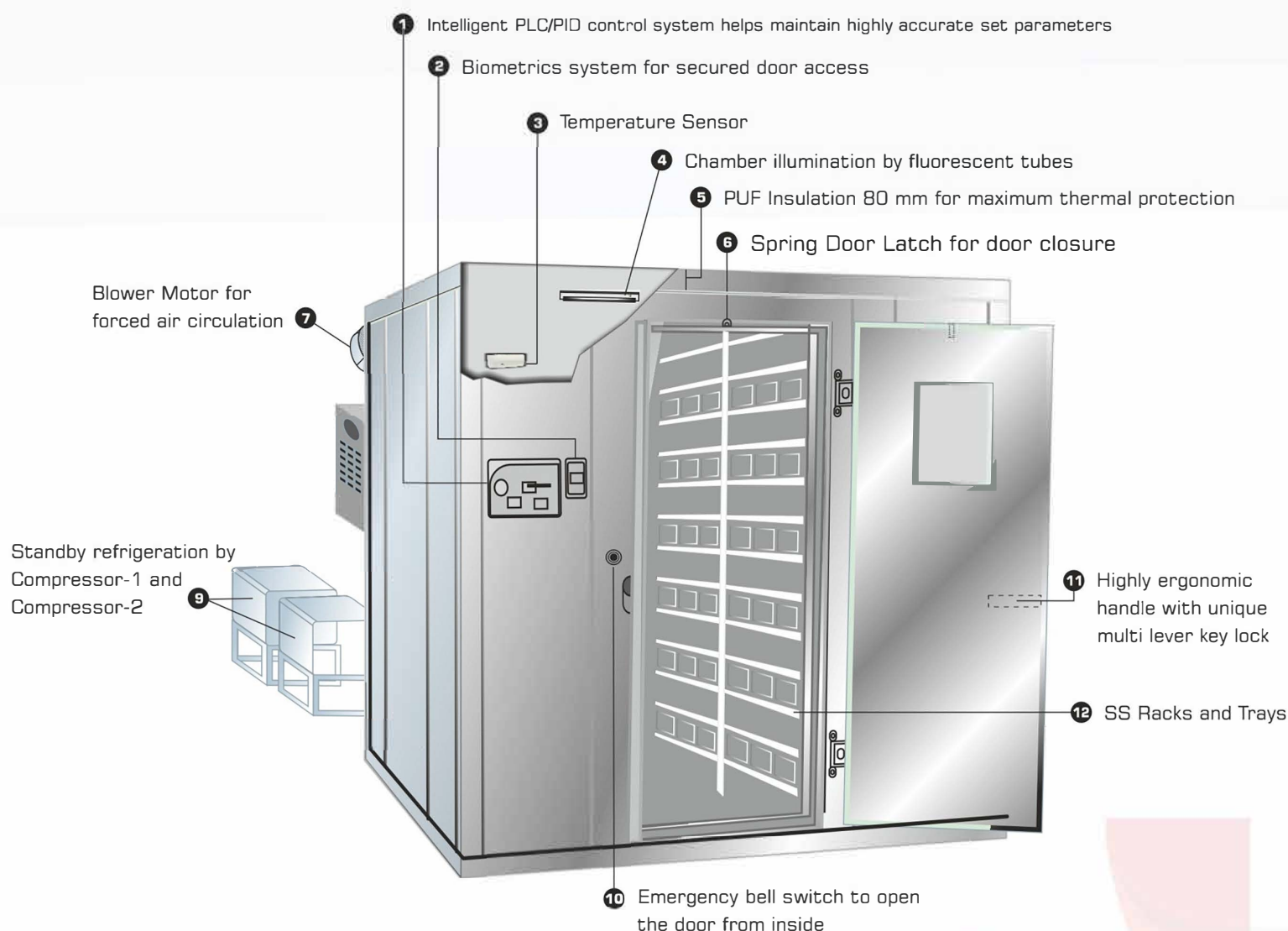


## Walk-in Chamber

REMI Walk in chambers are designed to meet the storage requirements of temperature sensitive biologicals & pharmaceuticals like whole blood, packed red cells, reagents & kits. Uniform temperature conditions are maintained with the help of internal forced air circulation. The standby refrigeration system (optional) provides uninterrupted functioning. Walk in Chambers are made from pre-fabricated double

walled modular panels which are easy to assemble at site. The customization of cabinet & storage shelves can be done as per the user's requirement.

**Temperature Control & Monitoring:** Microprocessor integrated system provides excellent temperature accuracy. 7 days circular chart recorder & audio visual alarm system helps to indicate storage conditions continuously.





## Blood Bank Refrigerator

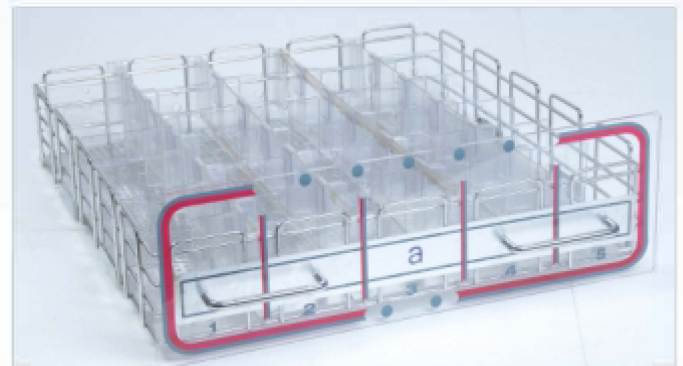


BR 400 / 500 are high capacity refrigerators for bulk storage requirement of whole blood and packed red cells.

Standby refrigeration with alternately working compressors provides backup in emergency situations.

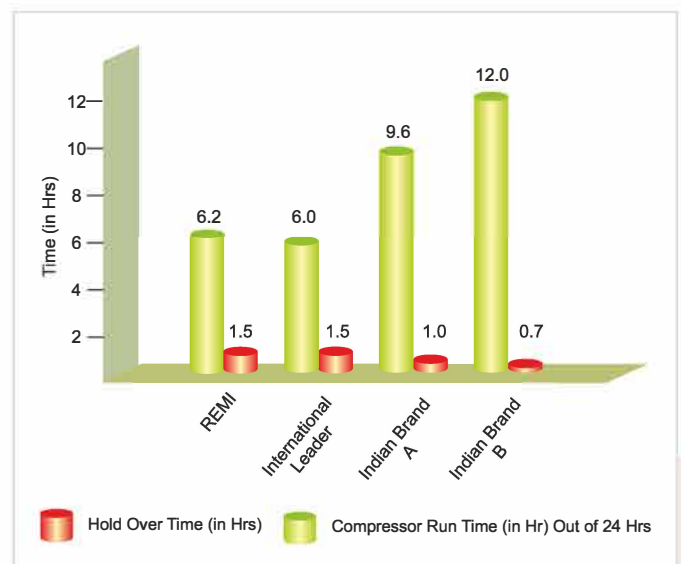
### Flexi-Storage (optional)

Modular acrylic partitions to store blood bags upright

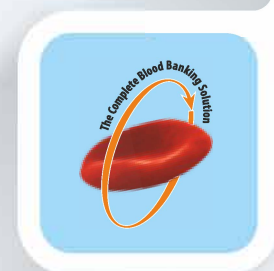


### Salient Features of High Capacity Storage Unit

- Dual compressor system provides back up in emergency situation (Optional)
- Auto defrost mechanism to prevent frost formation
- Self-diagnosis & display of errors
- Safety Thermostat for avoiding negative temperature
- Settable points for
  - High / low temperature alarm point
  - Buzzer off time
- Audio/Visual alarms for
  - Temperature high / low
  - Power failure (only visual)
  - Sensor open / Short
  - Door Open
  - Compressor on (only visual)
  - Power on (only visual)
- Auto Door Closure
- Compatibility with **REMI XS** for wireless data logging



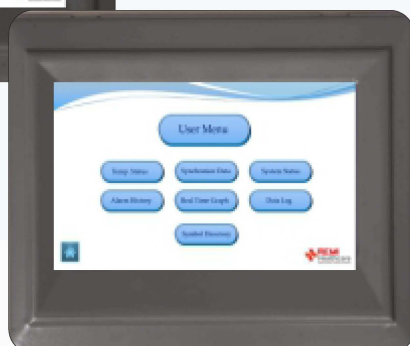
### Compressor Functioning & Holdover Time (Best in Class Insulation)



## High Capacity Storage Solutions



7" Touch Screen



### Touch Screen Display

- 7" Multicolored touch screen with user interface
- Displays temp, alarms, date & time
- Data logging with multiple option & transfer via Ethernet, USB port
- PLC (Programmable logic controller) with internal memory of 1500 records
- Battery backup for display, alarms & off-line data logging
- Password protected settings for system control & notifications
- Onscreen access for data logs, temperature graph, system status, troubleshooting, etc.
- REMI 'Datasoft' software for generating various reports, SMS alerts & analysis (Optional)

### Optional features :

- Standby Refrigeration
- Biometric Access
- Wireless data logging

### TECHNICAL DATA

	BR 400 Ultra	BR 500 Ultra	WBR 80 Ultra	WBR 100 Ultra	
Internal volume (Liters)	700	860	8000	10000	
Capacity of blood bags	Up to 525	Up to 630	Up to 1000	Up to 1500	
Internal dimensions W x D x H (mm)	800 x 860 x 1030	800 x 860 x 1250	2000 x 2000 x 2000	2000 x 2000 x 2500	
External dimensions W x D x H (mm)	960 x 1135 x 1840	960 x 1135 x 2160	2160 x 2950 x 2160	2160 x 2950 x 2660	
Temperature range & accuracy	2° C to 6° C, Accuracy: ±1° C				
Internal body material	Stainless steel 304 grade				
External body material	Powder coated CRCA steel				
Insulation	80 mm, CFC free polyurethane foam		80 mm minimum, CFC free polyurethane foam		
Display	7" Touch Screen				
Illumination	Fluorescent tubes				
Control & display	Microprocessor based PLC control system				
Audio visual alarm	Temperature Hi / Low, Door Open, Power Failure				
Recorder	Seven days circular chart recorder				
Battery backup (Controller)	Rechargeable, maintenance free battery for display, alarm system & temperature recorder				
Recommended voltage stabilizer	VS 05				
Electrical	220-240 volts, 50Hz, Single Phase				



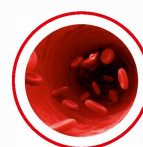
# Centrifuge Bucket Equalizer



**CBZ-50 Plus**

## Quality Validation Made Easy

Centrifuge Bucket Equalizer (CBZ-50 Plus) is a Micro-processor controlled device specially designed to equalize the counter-facing buckets of centrifuge simultaneously. Eliminates the possibility of rotor imbalance & vibrations during centrifugation



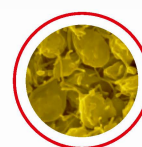
**Whole Blood**



**Packed RBC**



**Plasma**



**Platelets**

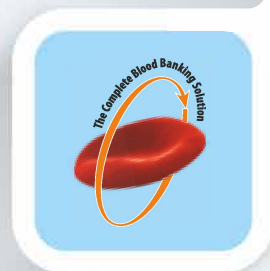
**First Time, feature of calculating volume of all components as per specific gravity**

## Salient Features:

- Optimum balancing with accuracy & precision. (Deviations  $\pm 0.01\%$ )
- Conversion of weight to volume for all blood components
- Protective cover prevents accidental damage
- Independent tarring (zero balance) for both the pans
- Audio-visual alarm on equalization & error reporting
- Time saving & fatigue reduction
- Helps in achieving quality components

## Technical Specifications

Parameter	CBZ-50 Plus
Dimension (W x D x H)	320 x 415 x 110 (mm)
Weight	8 Kg
External Body	Encapsulated Body (Non Corrosive, Non Magnetic)
Accuracy	$\pm 0.5$ gm / $\pm 0.5$ ml
Capacity Each Pan	5 kg
Electrical	230 volts, 50 Hz, SINGLE PHASE



## Thawing Baths



**CB 704**



**CB 705**

REMI Thawing bath offer quick and optimum thawing of plasma at required temperature levels.

Available in two variants refrigerated & non-refrigerated

CB 704, is a refrigerated thawing bath for preparation of cryoprecipitate at required temperature of 4°C

CB-705, is a non-refrigerated thawing bath for quick thawing of plasma at required temperature of 37°C

### Salient Features

- Microprocessor based precise temperature control
- High performance 1.5 kw heater & compressor to achieve the set temp
- Over temperature safety limit, audio visual alarm
- LED monitor to display the working status of thawing bath
- Continuous water circulation for temp uniformity & rapid thawing
- Audio visual alarm after elapsed time
- Capacity to thaw 15 plasma bags

### Technical Specifications

Parameter	CB-704	CB-705
Temperature settings	+ 4°C & + 37°C (accuracy $\pm 0.2^{\circ}\text{C}$ )	+ 37°C (accuracy $\pm 0.2^{\circ}\text{C}$ )
External Dimensions W x D x H (mm)	910 x 600 x 1090	760 x 530 x 640
Thawing Timer	Adjustable up to 2 Hrs	
Internal Body Material	Stainless steel AISI 304 grade	
External Body Material	Powder coated CRCA steel	
Noise Level	Less than 65 db(A)	
Recommended Line Voltage Corrector	3 KVA	
Electrical	220-240 volts, 50 Hz, Single Phase	





## REMI Water Bath

### RWB Series



**RWB 6**

#### Technical Specifications

Parameter	RWB 6
Temperature range	RT $\pm$ 5 °C ~99°C
Temperature stability	$\pm$ 0.5°C
Tracking alarm	$\pm$ 2°C
Chamber volume	15 Ltrs
Interior Dimension (W×D×H, mm)	450×300×110
Timing range	1~999min
Water Bath Cover	Double lines six holes
Electrical requirements	220V, 50Hz, Single phase
Power Consumption	1500W

REMI Water Bath is multipurpose water bath with adjustable double line six holes to hold different size samples for easy & hygienic heating. RWB provides precise and constant temperature helps achieving uniform heating for the samples.

#### Salient Features:

- Microprocessor control with timing function
- Digital display
- Audible and visual alarm for over temperature



# Plasma Freezer

REMI Plasma Freezer are designed to meet the storage requirements of Plasma.

## Cabinet Construction:

Durable, corrosion resistant materials are used to provide years of reliable performance. The outer body is made up of powder Coated CRCA Steel & internal cabinet of Stainless Steel 304 (AISI Grade, Non Corrosive and Non Magnetic).

## Temperature Control & Monitoring:

Microprocessor integrated system provides excellent temperature accuracy. 7 days chart recorder & audio visual alarm system helps to indicate disturbance in storage conditions.

## Variants:

REMI Plasma Freezer available as RPF & RPF Ultra variants. Both the variants are available in 2 different capacities.



## Salient Features :

- Precise temperature management with the help of highly sensitive microprocessor controller: -40°C
- Flicker free internal lighting, illuminates once the door is open
- High density insulated door & cabinet with internal acrylic door to reduce temperature loss
- 8 hrs battery backup for alarm system, temperature display & chart recorder
- Large display of temperature with all the controls on the door & at eye level for ease of operation
- Audio / Visual alarms for
  - Temperature high / low
  - Power failure
  - Door Open
  - Compressor on
  - Power on
- Settable points of
  - Temperature high / low
  - Adjustable temperature range
  - High / low temperature alarm point
- Auto Door Closure
- Smart Handle :
  - Indication of door close with green light
  - Key Lock & Controls inner light
  - Indication of door open with blinking red
- Clever Chip : Provides crucial backup to maintain temperature in event of sensor failure (with ultra models)
- Port for CO<sub>2</sub> backup (Optional)
- Compatibility with **REMI XS** for wireless data logging



# Plasma Freezer



7" Touch Screen  
(in Ultra Model)



## Touch Screen Display

- 7" Multicolored touch screen with user interface
- Displays temp, alarms, date & time
- Data logging with multiple option & transfer via Ethernet, USB port
- PLC (Programmable logic controller) with internal memory of 1500 records
- Battery backup for display, alarms & off-line data logging
- Password protected settings for system control & notifications
- Onscreen access for data logs, temperature graph, system status, troubleshooting, etc.
- REMI 'Datasoft' software for generating various reports, SMS alerts & analysis (Optional)

## Technical Specifications

Particulars	RPF 224	RPF 224 Ultra	RPF 336	RPF 336 Ultra
Temperature control	Microprocessor		Microprocessor	
Display	LED	7" Touch Screen	LED	7" Touch Screen
Internal dimensions W x D x H (mm)	660 x 765 x 650		660 x 765 x 850	
External dimensions W x D x H (mm)	800 x 945 x 1205		800 x 945 x 1435	
Gross internal volume	325 Ltrs.		425 Ltrs.	
Capacity of plasma bags	360		480	
Number of drawers (Adjustable)	3		4	
Drawer capacity	Maximum 120 bags			
Minimum Temperature (in AC Room)	Up to -40°C			
Internal body material	S.S. 304 (AISI grade, Non corrosive, Non magnetic)			
External body material	Powder coated CRCA steel			
Insulation	80 mm minimum, CFC free poly urethane foam			
Recorder	Seven days circular chart recorder			
Noise level	Less than 65 db(A)			
Battery backup	Rechargeable, Back up 8 hrs (for Display, Alarm system & Temperature recorder)			
Power Failure Alarm	Audio visual alarm			
Recommended voltage stabilizer	2 KVA			
Electrical	220-240 volts, 50 Hz, Single Phase			



## Ultra Low Freezers -86°C

REMI's new range of ultra-low deep freezer is specially designed for faster temperature pull down & optimized cryopreservation. Highly sensitive microprocessor control ensures precise temperature management at -86°C



Flexibility to select from 3 available capacities

### Salient Features :

- Efficient insulation with high core density reduces temperature loss
- Optimized compressor run ensures energy efficiency
- Hot line across the door assembly to prevent frost formation
- Efficient dual cascade refrigeration system ensures fast temperature pull down
- Triplicate step silicon rubber gasket for complete insulation
- Independent internal foamed doors
- Seven day circular chart recorder for temperature recording
- Audio visual alarms for
  - Temperature high / low
  - Power failure (only visual)
  - Door open
  - Compressor on (only visual)
  - Power on (only visual)
- Settable points of
  - Temperature high / low
  - Adjustable temperature range
  - High / low temperature alarm point
- Smart Handle :
  - Indication of door close with green light
  - Key lock & controls inner light
  - Indication of door open with blinking red
- Clever Chip : Provides crucial backup to maintain temperature in event of sensor failure
- Port of CO<sub>2</sub> backup (Optional)
- Compatibility with **REMI XS** for wireless data logging

## Ultra Low Freezers -86°C



7" Touch Screen



### Touch Screen Display

- 7" Multicolored touch screen with user interface
- Displays temp, alarms, date & time
- Data logging with multiple option & transfer via Ethernet, USB port
- PLC (Programable logic controller) with internal memory of 1500 records
- Battery backup for display, alarms & off-line data logging
- Password protected settings for system control & notifications
- Onscreen access for data logs, temperature graph, system status, troubleshooting, etc.
- REMI 'Datasoft' software for generating various reports, SMS alerts & analysis (Optional)

### Technical Specifications

Parameters	PDV 90 Ultra	PDV 185 Ultra	PDV 360 Ultra
Internal Volume (Liters)	90	185	360
No of plasma bags	150	300	550
No. of trays	2	3	6
No. of Internal door	2	2	4
Internal dimensions W x D x H (mm)	400 x 400 x 580	510 x 510 x 730	700 x 510 x 1000
External dimensions W x D x H (mm)	710 x 877 x 1410	820 x 987 x 1560	1010 x 987 x 1830
Minimum temperature (in AC room)	-86°C		
Insulation (CFC free polyurethane foam)	Body : 155 mm sides, 325 mm Back, Door : 110 mm		
Temperature control	Microprocessor with PT-100 sensor		
Display	7" Touch Screen		
Door open alarm	Audio visual alarm in case door open for over one minute		
Chart recorder	In-built 7 days circular chart recorder		
Internal body material	S.S. 304 (AISI Grade, non corrosive, non magnetic)		
External body material	Powder coated CRCA steel		
Noise level	Less Than 65 db(A)		
Battery backup	Rechargeable, Back Up 8 hrs (for alarm system & temperature recorder)		
Recommended voltage stabilizer	VS 05	VS 06	
Electrical	220-240 volts, 50 Hz, Single Phase		





# Platelets Incubator & Agitator

Ultra range of REMI Platelet Incubator & Agitator are specially designed to meet the storage requirements of Platelet concentrate.

## Temperature Control & Monitoring:

Microprocessor integrated system provides excellent temperature accuracy. 7 days chart recorder & audio visual alarm system helps to indicate disturbance in storage conditions.

## Intelligent Controller:

In case of temperature controller failure, innovative "Clever-Chip" automatically takes control for continued operations.

## Salient Features :

- Refrigeration & precision pulse heating for achieving  $22^{\circ}\text{C} (\pm 0.5^{\circ}\text{C})$
- Forced air circulation for temperature uniformity
- Bacteria resistant powder coated exterior with high grade stainless steel Interior
- LCD display of temperature, real date, real time, temperature histogram etc.
- Smart Handle with LED door closure indication
- Auto stop / start feature pauses agitation when incubator door is opened
- Safety Thermostat to prevent -ve & +ve temperature in addition to microprocessor controller
- Swivel lockable castors with floor standing jacks
- Triple pane tempered glass door



## Technical Specifications

Parameters		PI-10 Ultra
Temperature controller		Microprocessor
Audio Visual Alarms: <ul style="list-style-type: none"><li>• Agitator Motion fault</li><li>• Power failure</li><li>• Compressor run (visual)</li><li>• Temperature Hi / Low (<math>\pm 2^{\circ}\text{C}</math>)</li><li>• Door open</li></ul>		Yes
Temperature	$^{\circ}\text{C}$	22 (Deviation $\pm 0.5$ )
Internal volume	Liters	183
Internal Dimension (W X D X H)	mm	540 X 520 X 634
External Dimension (W X D X H)	mm	640 X 685 X 1185
Insulation Thickness	mm	50 mm
Recorder	Seven days chart recorder	
Battery Backup (Controller)	Rechargeable, 8 Hrs (Display, Recorder, Alarm system)	
Electrical	220-240 volts, 50 Hz, Single Phase	

PI 10 Ultra & PR 10 Ultra



# Platelets Incubator & Agitator



LCD Display

## LCD Display

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Displays temp, alarms, date & time
- Onscreen access for last 24 Hrs data logs, temp. histogram & system status
- Auto tuning of controller
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Alarm on equipment / output for remote alarm
- PC communication through RS-485 with data acquisition software
- REMI 'Datasoft' software for generating various reports, SMS alerts & analysis (Optional)

## Platelet Agitator - PR 10 Ultra

- Easy Pull out, adjustable shelves ensures inventory management
- Perforated flatbed shelves for uniform air circulation
- Robust motorized slide for effective 24X7 continuous jerk free agitation
- Fixed speed agitation with optimum amplitude for better viability of platelets

## Technical Specification

Particulars		PR 10 Ultra
Agitator control		Microprocessor
Strokes (adjustable)	Per min	60 to 70
Amplitude	mm	38 ± 2
Dimension	mm	440 X 410 X 395
Trays	Number	9
Capacity	Platelet bags (RDP)	54



PR 10 Ultra



## REMI Dry Hot Air Oven RDHO Series



**RDHO 80**

REMI Dry hot air oven — RDHO series are specially designed to achieve extreme dryness by evaporating all moisture contents from the biomass or other material. Microprocessor control helps in achieving precise high temperature with forced convection. Suitable for varied applications in laboratories and scientific research institutions

### Salient Features:

- Microprocessor PID controller (with timing function)
- Polished stainless-steel chamber with rounded corners for easy & quick cleaning
- Uniform distribution of air temperature
- Forced-air convection

### Technical Specifications

Parameter	RDHO 50	RDHO 80
Internal dimension (W × D × H mm)	420×395×350	450×400×450
External dimension (W × D × H mm)	720×590×520	740×618×630
Chamber volume (Litres)	50	80
Temperature range	RT+10°~300°C	
Temperature accuracy	1°C	
Display resolution	±1°C	
Timing range	1~9999min	
Shelves (Nos)	2	
Power consumption	1100W	1550W
Electrical requirements	220V, 50Hz, Single phase	



## Tube Roller Mixer SeroRoll 6



**SeroRoll 6**

**SeroRoll-6** is specially designed to achieve uniform consistency in the serological samples, eventually helps in increasing the sensitivity of the planned testing. Rolling bed of **Seroroll-6** is designed to mix all size samples in blood sample tubes, falcon tubes®, culture bottle etc.

### Salient Features:

- Gentle ROCKING and ROLLING system for optimum mixing
- Suitable for mixing blood sample and viscous substance
- Brushless DC motor for quiet operation and maintenance free long life
- Removable rollers for proper cleaning
- Adjustable roller rod spacing to hold different diameter tubes
- Adjustable Speed ranging from 10 to 80 RPM
- Adjustable timer ranging from 1 min to 99 mins and infinite
- Pulse mode

### Technical Specifications

Specification	Seroroll 6
Motor type	BLDC motor
Motion	Rocking & Rolling
Max. Loading capacity	2 Kg
Number of tubes	15 x 7m1 Blood tubes
Roller size	30 x 327 mm
Speed range	10 to 80 RPM
Timer range	1 to 99 mins
Operation type	Continuous & timed operation
Tilt angle	±3°
Dimensions (WxDxH) mm	496 x 107 x 292
Electrical	220-240V, 50 Hz, Single Phase

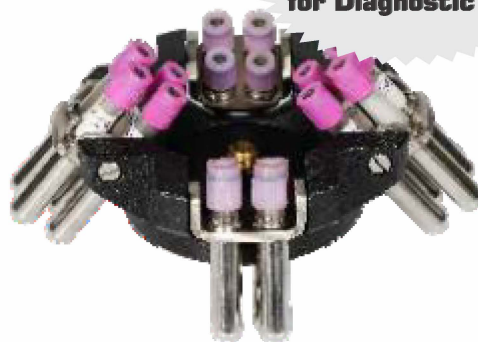


## NEYA 2

**Simplifies Day to Day Work**



**Specialized Rotor  
for Diagnostic labs**



**Specially Designed Blood Tube Rotor  
(16 Blood Tubes of 5/7ml)**

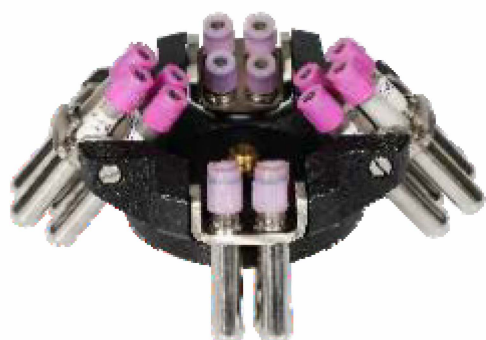






## NEYA 2

### Simplifies Day to Day Work



### Specially Designed Blood Tube Rotor (16 Blood Tubes of 5/7ml)

REMI Neya 2 with European Design is a perfect combination of performance & Characteristics.

Precise control on speed is through microprocessor based VFD controller, helps in efficient results for sensitive diagnostic tests.

REMI Neya 2 is designed with compact footprint considering the day to day requirements of small to medium medical diagnostic laboratories.

Specialized hybrid rotor to fit both popular sample tubes simultaneously.

1. Short Blood collection Tubes ( Size - 12.5mm X 75 mm)
2. Long Blood collection Tubes ( Size - 12.5mm X 100 mm)

#### Salient Features

- Brushless induction motor
- Speed control through VFD
- Microprocessor controller
- Feather touch keys for Smooth and soft start
- Green LED display
- Maximum RPM 4000 and maximum RCF 2330 g
- Lid interlock, Dynamic brake and Imbalance detection
- Emergency lid opening
- Accurate speed  $\pm 10$  RPM
- Timer up to 99 minutes
- Last parameter recall
- Calibration window
- Comes with special blood tube rotor

#### Technical Specification

Particulars		Neya 2
Capacity	ml	16 X 5/7 ml
Tube Size	Dia X Length (in mm)	12.5 X 100 (long) 12.5 X 75 (short)
Max. Speed	RPM	4000
Max. RCF	'g'	2330
W X D X H	mm	325 x 370 x 280

Supply: 220 V, 50 Hz Single phase



## NEYA - 4 NEYA - 6

Truly Versatile Centrifuge



**NEYA 6**



**NEYA 4**

**Specialized Rotor  
for Diagnostic labs**



SN 4-100 + Bucket B 9-5  
**36 Nos Blood Tubes of 5/7ml**



# NEYA - 4 NEYA - 6

## Truly Versatile Centrifuge



LED Display



LCD Display



REMI Neya 6 & Neya 4 with European Design is a perfect combination of performance & characteristics

REMI Neya 6 & Neya 4 are designed considering the specific requirements of medical laboratories. Precise control of all run parameters helps in efficient results for sensitive diagnostic tests. Wide choice of rotor heads and adaptors makes these bench top centrifuges truly versatile.

### Salient features:

- Automatic rotor identification, ensures operator safety
- Stainless steel centrifuge chamber, easy to clean
- Brushless induction motor, speed control with VFD (*Variable Frequency Drive*)
- Microprocessor controller with digital display
- Stable speed output even under unstable voltage conditions
- Smooth & soft start
- Low sample temperature rise
- Inverter fault detection with auto shutdown
- Safety lid interlock to prevent lid opening during centrifugation
- Imbalance detection & centrifugation stop with display of error
- Dynamic brake for quick deceleration
- Motor overload protection
- Gas hinge to prevent door falling

- Emergency lid lock release
- Last set parameters recall for standardizing repetitive analysis
- Wide variety of rotors & reduction adaptors
- Enhanced sample capacity - 24 x 15 ml & 36 x 5 ml
- Settable countdown timer up to 99 minutes
- Feather touch keys and bi-directional encoder
- Calibration window on the lid

Technical Data			
Models		NEYA 6	NEYA 4
Max. Speed	rpm	6000	6000
Max. RCF	g	5070	5070
Max. Capacity	ml	400	400
Digital timer range	min	0-99	0-99
Noise	db	≤ 60	≤ 60
Speed Accuracy	rpm	±10	±10
Display		LCD	Green LED
Acceleration Profile		10	Fixed
Deceleration Profile		10	Fixed
Program Memory		10	No
Password Protection		Yes	No
Fast Spin		Yes	No
RCF Display		Yes	No
Setting Buttons		Encoder	Touch key pad
WxDxH	mm	380x470x300	380x470x300

Supply: 220-240Volts 50 Hz Single Phase.



## Rotor Heads & Accessories

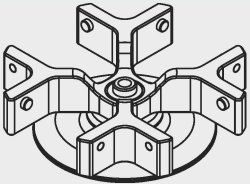












### Nomenclature Method of Rotors & Accessories

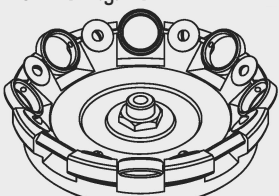







Alphabets in beginning	Numbers in middle
AN = Fixed angle rotor	1st numerical = Quantity per insert
SN = Swing out rotor	2nd numerical = Tube capacity (ml)
B = Bucket	
RA = Reduction adaptor	
<b>Examples</b>	
SN 4-100	(Swing out rotor, 4 tubes of 100ml capacity)
AN 24-15	(Angle rotor, 24 tubes of 15ml capacity)
B 9-5	(Bucket, 9 tubes of 5ml capacity)
RA-161F	(Reduction adaptor for falcon)

Swing out Rotors (except S 4-100) & Angle Rotors are supplied with suitable SS tubes as carriers



### Swing Out Rotors for NEYA 6 & NEYA 4

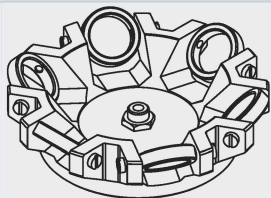
 <p><b>Swing Out Rotor SN 4-100</b> Max. Speed RPM 4000 Max RCF (g) 2500</p>				Metal Buckets suitable for Swing Out Rotor SN 4-100					
				B 100			B 9-5		
				 					
Image of Tube									
Tube Capacity (ml)	100	50	50	30	15	15	10	6	5
Type of Tube	Glass	Glass	Falcon®	Glass	Glass	Falcon®	Vacutainer®	Vacutainer®	Vacutainer® short
Ø x L (mm)	45.5 x 104	30 x 110	29 x 116	24 x 110	17 x 110	16.5 x 120	15.5 x 106	12.5 x 106	12.5 x 81
Bucket No.	B 100	B 100	B 100	B 100	B 100	B 100	B 100	B 100	B 9-5
Insert Cat No.	—	RA 157	RA 161F	RA 158	RA 166	RA 160F	RA 168	RA 167	—
Tubes supplied	Yes	Yes	No	Yes	Yes	No	No	No	No
No of tubes/Insert	1	1	1	1	3	3	3	4	9
No of tubes/rotor	4	4	4	4	12	12	12	16	36

<p><b>Swing Out Rotor SN 8-15</b> Max. Speed RPM 4500 Max RCF (g) 3440</p> 		Image of Tube							
		Tube Capacity (ml)	15	13	8	6	5	5	3
		Type of Tube	Glass	Borosil Glass	Glass	Vacutainer®	Glass	Vacutainer® short	Glass
		Ø x L (mm)	17 x 110	15 x 125	12 x 100	12.5 x 106	12 x 75	12.5 x 81	10 x 75
		Insert Cat No.	—	—	RA 154	RA 163	RA 153	RA 162	RA 152
		Tubes supplied	Yes	No	Yes	No	Yes	No	Yes
		No of tubes/Insert	1	1	1	1	1	1	1
		No of tubes/rotor	8	8	8	8	8	8	8









## Rotor Heads & Accessories

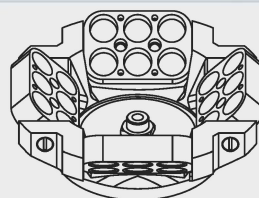


### Swing Out Rotor SN 6-50

Max. Speed RPM 4500

Max RCF (g) 3530




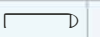


Image of Tube					
Tube Capacity (ml)	50	30	15	15	10
Type of Tube	Glass	Glass	Falcon®	Glass	Vacutainer®
Ø x L (mm)	30 x 110	24 x 110	16.5 x 120	17 x 110	15.5 x 106
Insert Cat No.	—	RA 502	RA 501F	RA 501	RA 164
Tubes supplied	Yes	Yes	No	Yes	No
No of tubes/Insert	1	1	1	1	1
No of tubes/rotor	6	6	6	6	6



### Swing Out Rotor SN 24-15

Max. Speed RPM 4500

Max RCF (g) 3330

Image of Tube						
Tube Capacity (ml)	15	8	6	5	5	3
Type of Tube	Glass	Glass	Vacutainer®	Glass	Vacutainer® short	Glass
Ø x L (mm)	17 x 110	12 x 100	12.5 x 106	12 x 75	12.5 x 81	10 x 75
Insert Cat No.	—	RA 154	RA 163	RA 153	RA 162	RA 152
Tubes supplied	Yes	Yes	No	Yes	No	Yes
No of tubes/Insert	1	1	1	1	1	1
No of tubes/rotor	24	24	24	24	24	24

## Angle Rotors for NEYA 6 & NEYA 4

### Angle Rotor AN 4-100

Max. Speed RPM 6000

Max RCF (g) 4550

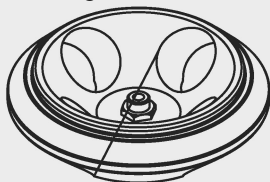




Image of Tube								
Tube Capacity (ml)	100	50	50	15	15	15	10	6
Type of Tube	Plastic	Falcon®	Glass	Glass	Glass	Falcon®	Vacutainer®	Vacutainer®
Ø x L (mm)	45.5 x 104	29 x 116	30 x 110	17 x 110	17 x 110	16.5 x 120	15.5 x 106	12.5 x 106
Insert Cat No.	—	RA 161F	RA 161	RA 160	RA 166	RA 160F	RA 168	RA 167
Tubes supplied	Yes	No	Yes	Yes	Yes	No	No	No
No of tubes/Insert	1	1	1	1	3	1	3	4
No of tubes/rotor	4	4	4	4	12	4	12	16

### Angle Rotor AN 6-50

Max. Speed RPM 6000

Max RCF (g) 4700

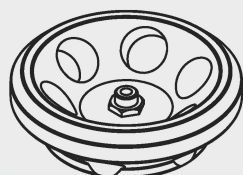







Image of Tube					
Tube Capacity (ml)	50	30	15	15	10
Type of Tube	Plastic	Glass	Glass	Falcon®	Vacutainer®
Ø x L (mm)	30 x 100	24 x 110	17 x 110	16.5 x 120	15.5 x 106
Insert Cat No.	—	RA 502	RA 501	RA 501F	RA 164
Tubes supplied	Yes	Yes	Yes	No	No
No of tubes/Insert	1	1	1	1	1
No of tubes/rotor	6	6	6	6	6

### Angle Rotor AN 24-15

Max. Speed RPM 6000

Max RCF (g) 5070

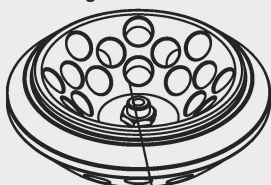





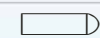


Image of Tube						
Tube Capacity (ml)	15	8	6	5	5	3
Type of Tube	Plastic	Glass	Vacutainer®	Glass	Vacutainer® short	Glass
Ø x L (mm)	17 x 102	24 x 100	12.5 x 106	12 x 75	12.5 x 81	10 x 75
Insert Cat No.	—	RA 154	RA 163	RA 153	RA 162	RA 152
Tubes supplied	Yes	Yes	No	Yes	No	Yes
No of tubes/Insert	1	1	1	1	1	1
No of tubes/rotor	24	24	24	24	24	24





## NEYA - 16

Truly Versatile Centrifuge



### Single Rotor Offers

#### High Capacity



Bucket B 16-5/7

**64 Blood Tubes**



Swing out Rotor

S 4-175

#### Flexibility



Bucket B 175

(Aerosol-tight cap)

**2 ml to 175ml Adaptors  
Varied Applications**





# NEYA - 16

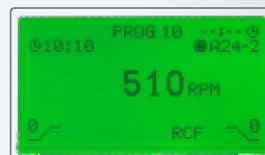
## Truly Versatile Centrifuge

REMI Neya 16 with European Design is a perfect combination of performance & characteristics

REMI Neya 16 is designed considering the specific requirements of medical laboratories. Precise control of all run parameters helps in efficient results for sensitive diagnostic tests. Wide choice of rotor heads and adaptors makes these bench top centrifuges truly versatile.

### Salient Features

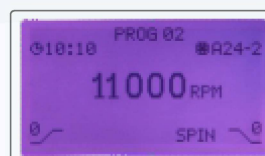
- Brush less motor with variable frequency drive, maintenance free
- Microprocessor controller with multicolor backlit LCD display
- 10 program memory with password protection
- 10 Acceleration and 10 deceleration profiles
- Fast spin feature for quick run
- Choice of RPM / RCF setting and display
- Automatic rotor detection
- Countdown timer 30 seconds to 99 minutes
- Imbalance detection system with automatic stop function
- Door interlocking system
- Emergency lid opening in case of power failure
- Last program recall
- LED indication to see status of centrifugation from a distance
- Stainless steel centrifugation bowl with armoured chamber
- Comfortable height for an easy access
- Sophisticated anti vibration system
- Construction in accordance with European directives
- No puller required for rotor removal
- Hydraulic hinges for soft touch lid opening & closure



Centrifugation process



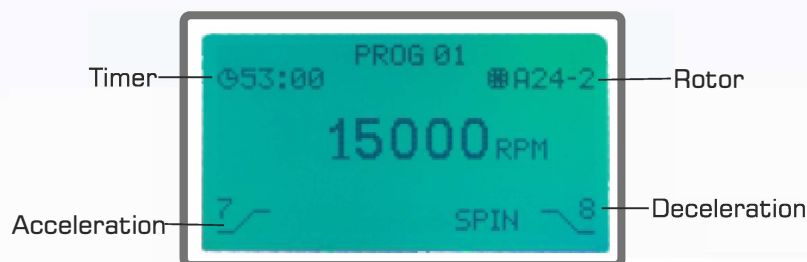
Alarm



Protected Program



Standby



### Technical Specifications

Parameter	Neya 16
Max Speed (RPM)	16000
Max RCF (g)	21000
Max Capacity (ml)	4 x 175
Acceleration Profiles	10
Deceleration Profiles	10
Display	Multi-color LCD
No of Programmes	10 (Protected)
Timer	30 sec to 99 min & Continuous mode
WxDxH	440 x 560 x 335
Supply	220v, 50 Hz, 1 Phase
Power consumption	280 W
Noise Level	<55 dBA



## Nomenclature method of Rotors & Accessories

Alphabets in beginning	Numbers in middle	Alphabets at end	Examples	Description
A = Fixed angle rotor	1st numerical = Quantity per insert	F = Falcon® tube	S 4-175	(Swing out Rotor, 4 tubes of 175ml capacity)
S = Swing out rotor	2nd numerical = Tube capacity (ml)	R = Round bottom tube	S 4-175	(Swing out Rotor, 4 tubes of 175ml capacity)
B = Bucket		L = Long Tube	A 32-15	(Angle Rotor, 32 tubes of 15ml capacity)
I = Insert for bucket		S = Short Tube	B 2-50F	(Bucket, 2 tubes of 50ml capacity, Falcon®)
C = Cushion			I 1-50R	(Insert, 1 tube of 50ml capacity round bottom)
RE = Reducer			C -15F	(Cushion for 15ml Falcon®)
HE = Haematocrit Rotor			RE 15-5/7L	(Reducer from 15ml to 5/7 ml long tube)

## Options to be selected from following Rotors

 <b>Swing Out Rotor S 4-175</b> Max. Speed (RPM) 4500 Max. RCF (g) 3600	Metal Buckets suitable for Swing Out Rotor S 4-175 (Set of 4 buckets)					
	B 175 (with Bio safety Lid L 175)	B 2-50 F B 2-50 R	B 7-15 F B 7-15 R	B 12-10	B 14-5/7	B 16-5/7
						



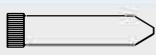
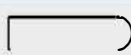

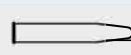
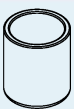
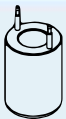
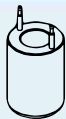






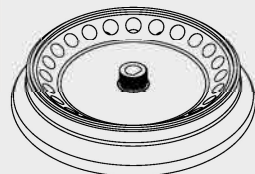
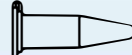


Image of Tube						
Tube Capacity (ml)	175	100	50		15	
Ø x L (mm)	57 x 99	45 x 104	29 x 116		16.5 x 120	
Max. Cap dia (mm)	59.5		34.5		22.5	
Type of Tube	Plastic	Glass / Plastic*	Falcon®		Falcon®	
No of tubes/insert	1	1	1	2	1	2
No of tubes/rotor	4	4	4	8	4	8
Bucket Cat No.	B 175	B 175	B 175	B 2-50 F	B 175	B 2-50 R
Insert Cat No.		I 1-100	I 1-50-F		I 1-50 R	
Image of Insert (Set of 4, supplied with suitable bottom cushions)	No			No		No
Tubes supplied	Yes	Yes (Glass)	No		Yes (Glass)	

Image of Tube				
Tube Capacity (ml)	10	5-7	5-7	2
Ø x L (mm)	15.5 x 106	12.5 x 106	12.5 x 81	11 x 42
Max. Cap dia (mm)	17	16	16	
Type of Tube	Vacutainer®	Vacutainer®	Vacutainer®	Micro
No of tubes/Insert	7	12	7	16
No of tubes/rotor	28	48	28	64
Bucket Cat No.	B 175	B 12-10	B 175	B 16-5/7
Insert Cat No.	I 7-10		I 7-5/7	
Image of Insert (Set of 4, supplied with suitable bottom cushions)		No		No
Tubes supplied	No	No	No	Yes

 <b>Angle Rotor A 24-2</b> Max Speed (RPM) 15000			
Image of Tube			
Tube Capacity (ml)	2	0.5	0.2
Type of Tube	Micro	Micro	Micro
Ø x L (mm)	11 x 41	7.5 x 31	6 x 22
Insert Cat No.	No	RE 2-05	RE 2-02
Tubes supplied	Yes	No	No
No of tubes/Insert	1	1	1
No of tubes/rotor	24	24	24

Note : The inserts are supplied with glass tubes as standard. Plastic tubes are also available (optional)



### Angle Rotor A 32-15N

Max. Speed RPM 5200 Max. RCF (g) 4020

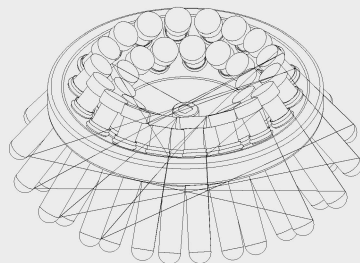



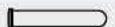
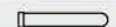
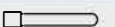

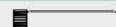
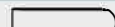
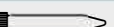
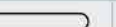

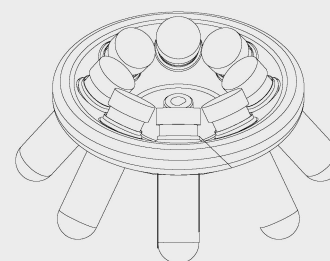
Image of Tube					
Tube Capacity (ml)	15	15	10	5/7	5/7
Ø x L (mm)	16.5 x 120	17 x 102	15.5 x 106	12.5 x 106	12.5 x 81
Max Cap dia (mm)	22.5		17	16	16
Type of Tube	Falcon®	Plastic	Vacutainer®	Vacutainer®	Vacutainer®
Insert Cat No.	C-15 F	No	No	RE 15-5/7	RE 15-5/7
Tubes supplied	No	Yes	No	No	No
No of tubes/Insert	1	1	1	1	1
No of tubes/rotor	32	32	32	32	32

Image of Tube					
Tube Capacity (ml)	50	50	15	15	10
Ø x L (mm)	29x116	30x100	16.5 x 120	17 x 102	15.5 x 106
Max Cap dia (mm)	34.5		22.5		17
Type of Tube	Falcon®	Plastic	Falcon®	Plastic	Vacutainer®
Insert Cat No.	C-50 F	No	RE 50-15 F	RE 50-15 P	RE 50-10
Tubes supplied	No	Yes	No	Yes	No
No of tubes/Insert	1	1	1	1	1
No of tubes/rotor	8	8	8	8	8

### Angle Rotor A 8 -50

Max. Speed RPM 6000 Max. RCF (g) 4790



### Swing Out Rotor S 6-96 MP

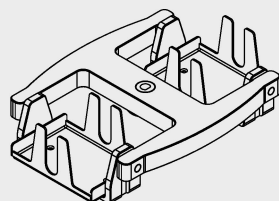



Image of Tube	
Tray Capacity	6 x 96 wells
Max Speed (RPM)	3200
Max RCF (g)	1950
Type of Tray	Micro Titer Tray
W x D x H	127 x 84 x 18
Tray supplied	No

### Angle Rotor HE 24-75

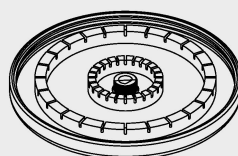

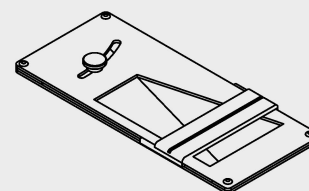


Image of Tube	
Max Speed (RPM)	12000
Max RCF (g)	15300
Tube Capacity (ml)	1
Type of Tube	Capillary
Ø x L (mm)	1 x 75
Tubes supplied	Yes

### Reading Device RD 24-75



W x D x H	127 x 84 x 18
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## Gel Card Centrifuge & Incubator



**OmniCard 12 C**  
*Efficiently Flexible*



**OmniCard 12 i**  
*Efficiently Flexible*



**Universal Gel Card System**  
*Provides flexibility to run all available gel cards*

**REMI Omnicard** is an efficiently flexible gel card system provides you freedom to select any brand of gel card with replicating standard results. It provides you the various option of run parameters for centrifugation & incubation. **Omnicard** is an open gel card system for economically viable solution for blood grouping, Coombs tests (DAT) & cross matching, etc.

**Omnicard 12 C** centrifuge fits all types of gel cards, with flexible 10 program setting (speed & time) including one sequential program.

**Omnicard 12 i** incubator fits all types of gel cards with flexible temp. & time setting. Additional dry bath slots for 5-7 ml test tubes makes it helpful for tube agglutination methods also.







# Gel Card Centrifuge & Incubator

## Salient features

### OmniCard 12 C

- Centrifugation of 12 Gel cards.
- Digital user interface screen provided for control and visualization of rpm and time.
- Maximum speed 1600 rpm.
- Maximum RCF  $279g \pm 1\%$
- 8 open program for setting RPM, acceleration & deceleration, time with additional two sequential sets of parameters
- Audio-Visual alarm provided for Imbalance & end of cycle.
- Universal for all types of standard gel cards.
- Speed control through VFD and dynamic brake system.
- Light weight yet robust design.
- Ergonomically designed shape for ease of operation
- Single Hand Rotor removal for cleaning

### OmniCard 12 i

- Incubation of 12 Gel cards & 12 test tubes simultaneously.
- Digital user interface screen provided for control and visualization of remaining incubation time and real temperature.
- Fixed Pre-set temperature  $37^{\circ}\text{C}$  (Pre heating within 8 minutes)
- Fixed pre-set incubation time of 15 minutes and can be adjustable from 0 to 60 min.
- Audio-Visual alarm provided for High/Low temperature & End of Cycle.
- Auto Pop-up Card mechanism, when lid opened.
- Light weight yet robust design.

## Technical Specifications

Parameter	OmniCard 12 C Gel Card Centrifuge	OmniCard 12 i Gel Card Centrifuge
Programs	Adjustable RPM & Time as specified by Gel card Supplier	Adjustable incubation Temperature & Time as specified by Gel card Supplier
Run specification	Max Speed : $1600 \pm 10$ RPM Max RCF : $279 \pm 1\%$ g	$37^{\circ}\text{C} \pm 1^{\circ}\text{C}$ Adjustable time up to 60 minutes
Net Weight	18 Kg.	4 Kg.
L x D x H	420 x 320 x 286 mm	300 x 250 x 150 mm
Audio Visual Alarms	Imbalance & End of cycle	High-low temperature, End of cycle
Capacity	12 Gel cards	
User interface	LCD Display with Touch key pad	
Electrical	220-240 volts, 50 Hz, SINGLE PHASE	



## REMI Heating Incubators RHI Series



**RHI 80**

REMI heating incubators - RHI series are suitable for achieving precise incubation temperature of different laboratory samples required for optimizing reaction sensitivity

### Salient Features:

- Microprocessor controller (with timing function)
- Interior is made of polished stainless steel with rounded corners for easy & quick cleaning
- The space between the shelves is adjustable.
- Full inner glass door for easy observation
- Self-check function easy to identify problems.
- Over temperature and temperature difference alarms
- Insulated Door for better temperature holdover

### Technical Specifications

Parameter	RHI 50	RHI 80
Internal dimension (W × D × H) mm	415 x 360 x 355	500 x 400 x 400
External dimension (W × D × H) mm	690 x 500 x 500	780 x 530 x 560
Chamber volume (Litres)	50	80
Shelves (Nos)	2	
Temperature range	RT +5°~65°C	
Display resolution	0.1 Temperature stability ± 0.5°Cz	
Timing range	1 min to 9999 min	
Type of heating	Forced air convection	
Power consumption	250 W	350W
Electrical requirement	220V, 50Hz, Single phase	



## REMI Dry Hot Air Oven RDHO Series



**RDHO 80**

REMI Dry hot air oven — RDHO series are specially designed to achieve extreme dryness by evaporating all moisture contents from the biomass or other material. Microprocessor control helps in achieving precise high temperature with forced convection. Suitable for varied applications in laboratories and scientific research institutions

### Salient Features:

- Microprocessor PID controller (with timing function)
- Polished stainless-steel chamber with rounded corners for easy & quick cleaning
- Uniform distribution of air temperature
- Forced-air convection

### Technical Specifications

Parameter	RDHO 50	RDHO 80
Internal dimension (W × D × H mm)	420×395×350	450×400×450
External dimension (W × D × H mm)	720×590×520	740×618×630
Chamber volume (Litres)	50	80
Temperature range	RT+10°~300°C	
Temperature accuracy	1°C	
Display resolution	±1°C	
Timing range	1~9999min	
Shelves (Nos)	2	
Power consumption	1100W	1550W
Electrical requirements	220V, 50Hz, Single phase	



## Tube Roller Mixer SeroRoll 6



**SeroRoll 6**

**SeroRoll-6** is specially designed to achieve uniform consistency in the serological samples, eventually helps in increasing the sensitivity of the planned testing. Rolling bed of **Seroroll-6** is designed to mix all size samples in blood sample tubes, falcon tubes®, culture bottle etc.

### Salient Features:

- Gentle ROCKING and ROLLING system for optimum mixing
- Suitable for mixing blood sample and viscous substance
- Brushless DC motor for quiet operation and maintenance free long life
- Removable rollers for proper cleaning
- Adjustable roller rod spacing to hold different diameter tubes
- Adjustable Speed ranging from 10 to 80 RPM
- Adjustable timer ranging from 1 min to 99 mins and infinite
- Pulse mode

### Technical Specifications

Specification	Seroroll 6
Motor type	BLDC motor
Motion	Rocking & Rolling
Max. Loading capacity	2 Kg
Number of tubes	15 x 7m1 Blood tubes
Roller size	30 x 327 mm
Speed range	10 to 80 RPM
Timer range	1 to 99 mins
Operation type	Continuous & timed operation
Tilt angle	±3°
Dimensions (WxDxH) mm	496 x 107 x 292
Electrical	220-240V, 50 Hz, Single Phase



## REMI Microplate Shaker

The Digital Microplate Shaker is an essential instrument for mixing individual micro plates of different type

### Salient Features:

- Tiny footprint-as small as the plate itself
- Digital Display with Speed & Time setting
- Speed selection from 300 to 1800 RPM  
Maintenance free BLDC motor
- Orbital Diameter of 2 mm for thorough mixing, microprocessor controlled for high accuracy
- Silent & stable operation
- Timer setting of to 99 min & Continuous mode
- A Special turn down toggle clamp for spill proof & simple side in/side out for loading / unloading of microplate
- Universal fit-comes with interchangeable clamps for different micro plates (Tool free and easy clamp change procedure)
- Even mixing in all wells across the plate
- Comes With attachment for 20 x 1.5/2ml microtubes
- Can be used inside fume hoods / cold rooms



**MPS 1**

### Technical Specifications

Specifications	Microplate Shaker
Speed setting	300 to 1800 RPM
Orbital diameter	2 mm
Motor type	Brushless DC motor
Timer setting	Up to 99 mins + infinite mode
Display	Digital display (LED) of Speed & Time
Power supply	Universal (100 to 230V. 50/60 Hz)
Dimensions (W x D x H)	127 x 85 x 86 mm
Weight	1.4 Kg
Standard attachments	1. 20 x 1.5/2.0 ml Microtubes (foam) 2. Replaceable clamps to use different types of standard micro plates





## Biological Refrigerators SeroCool Series



**Serocool 300**

### Safe storage for Biologicals

SEROCOOL series are biological refrigerators, specially designed for storage of temperature sensitive reagents, kits, & samples, Serocool meets requirement of Pharmacies & laboratories, i.e.; Pathology, Biochemistry, Hematology, Microbiology and Serology, Genetics & Diagnostics

### Salient Features :

- Microprocessor based temperature control,
- Wide 4" LCD display & alarm system
- Inner surface of medical grade compression molded plastic
- Outer body of high grade polished galvanized steel
- Automatic defrost mechanism
- Energy efficient due to insulation of high core density
- Uniform cooling by forced air circulation
- Adjustable coated wire mesh shelves
- Clear product visibility with dual glass door

### Technical Data

Parameter	Serocool 300	Serocool 400
Capacity (liters)	300	400
Temperature range	1° C ~ 10° C	
No. of Door (Glass)	1	1
Baskets / Shelves	4	4
External dimensions (mm)		
Width	584	610
Depth	584	584
Height	1702	1981
Supply	220-240 V, 50 Hz, Single Phase	



## Therapeutic Chairs



**Comfort**

**Hygiene**

**Safety**



## Therapeutic Chairs



1. Head rest adjustable for any comfortable position
2. Cushioned body supports for extra comfort
3. Movable (horizontal & vertical) fully padded broad armrests with glass holders
4. Adjustable foot rest with removable transparent plastic cover
5. Anti-fungal, Anti-bacterial, easy to clean leatherette upholstery

6. Sturdy & stable steel construction, allows load carrying capacity up to 200 kgs.
7. Best in class Dual lock, Anti-skid, Anti-static PU castors
8. Tissue paper / Towel holder
9. 2/3 independent motors for height, back & foot movements
10. Infusion stand, adjustable both sides
11. Emergency switch for head low position



## Therapeutic Chairs

The innovative design of the Dzire 2x / 3X Therapeutic Chair underlines the high quality standards. The comfortable upholstery creates a pleasant environment and feeling of wellbeing for patients. Two / Three electric motors offer simple and smooth movements of all desired positions further adding to patient relaxation whilst receiving treatment.

The remote control provides greater flexibility as all desired chair positions can be adjusted easily.

### Dzire Xtreme Comfort

- Specially designed for comfortable physiological posture
- Non Deformable Soft PU foam
- Dual padded Back Cushion
- Adjustable Head Support
- Vertical & Horizontal Armrest Movement
- Ergonomically designed for Comfortable Posture
- Height adjustment –user friendly for clinical team (Dzire 3x )
- Smooth back rest and foot rest movement
- Easily movable infusion stand

### Dzire Xtreme Hygiene

- Removable cushions for cleaning & maintenance
- Epoxy powder coated robust frame with rounded corners
- Anti-fungal, Anti-bacterial, easy to clean upholstery
- Elegant, easy to clean ABS moulded cover to prevent dust accumulation on mechanism

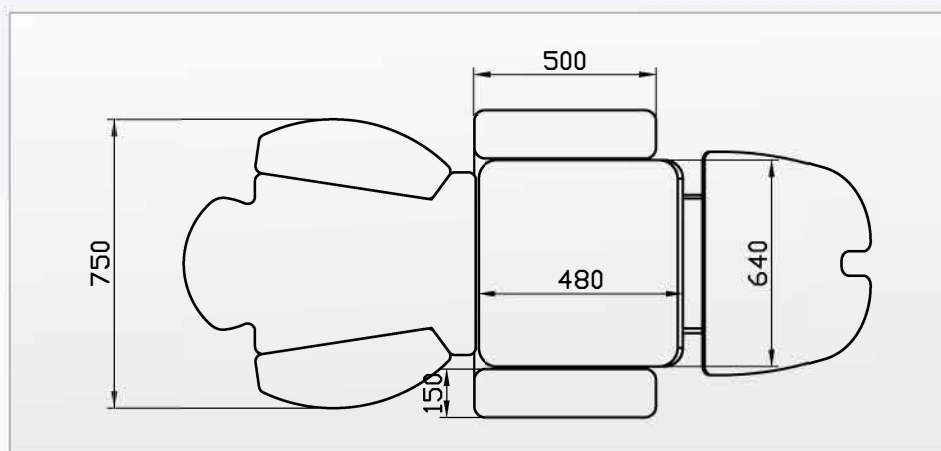
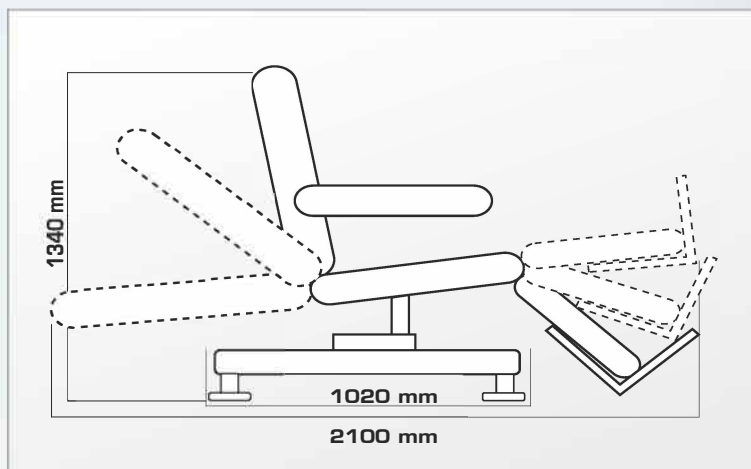
### Dzire Xtreme Safety

- Single touch button for shock position - ensures patient safety
- Anti-static, Anti-skid, Dual lock PU castors
- Sturdy, stable & non-tilt design capable to take weight up to 200 kg






## Therapeutic Chairs



### Technical Specifications

Parameters		
No of Motors / Actuators	2	3
Motorized movement	Leg section, Back section	Leg section, Back section, Height adjustment
Foot rest	Spring loaded & Self-adjustable with removable plastic cover	
Wheels	Anti-static, Anti-skid, Dual lock PU castors	
Construction	Epoxy powder coated steel frame	
Removable cushion	Anti-fungal, Anti-bacterial, leatherette with CFC free PU foam	
Attachments	Infusion stand, adjustable both sides	
Hand rest movement	Vertical & Horizontal movement and Height adjustable	
Weight carrying capacity	200 kg	
Weight	75kg	85kg
Compliance	IEC 60601-1, IEC 60601-1-2	
Electrical	220v-240v 50Hz, Single phase	

**\* Battery Backup (Optional)**







## FlaboX

### The Premium Phlebotomy Chair



**Flabo X**

REMI premium phlebotomy chair FlaboX is ergonomically designed, allowing patient's correct posture during phlebotomy.

FlaboX is designed specifically for blood sample collection, the upholstered arms have a wide support surface with angular & vertical adjustment.

FlaboX is extremely strong & sturdy, equipped to accommodate high load capacity up to 150 kg.

#### Comfort

- Curved backrest to support spinal curvature for comfortable seating
- Auto adjustable & non slippery foot rest
- Broad sitting space, accommodates obese patient

#### Support

- Broad, firm and comfortable hand rest.
- Vertical & horizontally adjustable hand rest for right phlebotomy position
- Comfortable soft and adjustable head rest.

#### Hygiene

- Stain-resistant & washable upholstery
- Interwoven stitching reduces dust accumulation
- Easily cleanable smooth edges

#### Technical Specifications

Parameters	Flabo X
Overall Dimensions (LXBXH)	760x770x1230mm
Weight	25kg
Load caring capacity	150kg max

# PRP Ultra

**Next Generation Refrigerated Centrifuge**



**PRP Ultra**

- ▶ **Sterile Autologous Platelet Concentrate**
- ▶ **Maintains 22°C as per Platelet Separation SOP**
- ▶ **Pre-Validated Set Programs for Standardization**
- ▶ **Platelet Concentration up to 4-5 Times**

**REMI**  
Healthcare

## PRP Ultra

REMI is a leading name in India for Blood Bank & Laboratory equipments. REMI is synonymous for centrifuge performance, since year 1960. Our expertise in blood component separation brings the best solution - PRP Ultra centrifuge for easy extraction of low volume autologous PRP.

PRP Ultra ensures platelet concentration up to 4-5 folds every time. Pre-validated dual spin programs in PRP ultra helps in maintaining standard platelet properties & yield. Microprocessor controls all 5 critical centrifuge parameters (*RPM/RCF, Acceleration, Deceleration, Time & Temperature*), for consistent results.

- **Consistent Performance:** Brush-less induction drive motor (practically maintenance free), prevents speed variations, Sophisticated anti vibration system for jerk free operations,
- **Safety Features:** Door interlock prevents accidental lid opening, Overload protection & Imbalance cut off for safety of operator & system.
- **Ease of Operation :** Interactive multicolor backlit LCD display, Feather touch Keypads, Emergency lid opening in case of power failure, LED window to see status of centrifugation from a distance, Comfortable height for an easy access



**PRP Ultra**  
Automation with Ease of Operation

- **Supports Hygiene:** Easy to clean ABS rounded corner body & Stainless steel inner chamber

## Autologous Platelets: Refrigerated centrifugation is the Key

- Vibration free centrifugation with right speed, time & temperature is important for intact biological properties
- Platelet's Processing & storing temperature at 22°C is important
- Cooling centrifuge saves platelets from the effect of heat generated during centrifugation

*\*AABB Technical Manual 18th Edition*

*\*\*Blood Vol 32, No. 2 (August), 1998*

### TECHNICAL MANUAL

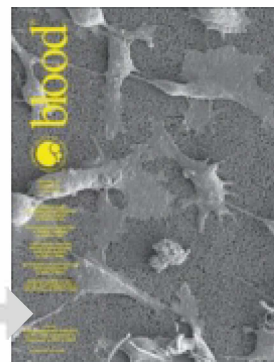
Mark E. Fur  
Brenda J. Grossman  
Christopher D. Hillier  
Cynthia M. Woodhull

Keep blood at room temperature (20 to 24 °C) before separating platelet-rich plasma from the red cells. This separation must take place within 8 hours of phlebotomy.

*\* Method 6.13. Preparation of Platelets from Whole Blood; AABB Technical Manual 18th Edition*

Heat induced loss of functional capacity is due to irreversible structural changes in platelets develop after warming PRP above 40°C. Heat produced a distinct morphological transformation characterized by loss of discoid shape, irregular swelling, and movement of hyaloplasmic organelles.

*\*\* Effect of heat on platelet structure and function; Dr James G. White; Blood, Vol.32, No. 2 (August), 1998*



# Dermatology & Plastic Surgery



## Dental Procedures



- Alopecia (Baldness)
- Hair Transplant
- Skin Rejuvenation
- Vampire Facelift
- Wrinkle Improvement:
- Skin Graft Fixation
- Skin Pores & Elasticity
- Autologous Fat Transfer
- Fixation of Cartilage Bone
- Skin Pigmentation disorder

- Striae Distensae (Stretch Marks)
- Acoustic Neuroma
- Craniofacial Surgery
- Head & Neck Cancers
- Chapped skin
- Burn wound
- Tonsillectomy
- Parotidectomy
- Thyroidectomy

# PRP

## Excels Tissue

- Supplementary to all GBR  
(Guided Bone Regeneration Technique)
- Bone grafting for dental implants.
- Ridge augmentation procedures,
- Closure of cleft, lip and palate defects
- Repair of Dental Bone Defects
- Improvement in stability of Dentition
- Repair of Fistulas between sinus cavity and mouth

- PRP in Sexual Dysfunction
- Priapus Shot in Men
- O Shot in Women
- Non surgical Vaginal Cosmetic & Rejuvenation
- PRP in endometrium Health
- Stimulation of Ovary function



## Sexual Dysfunction & IVF



## Diabetic & Wound Management

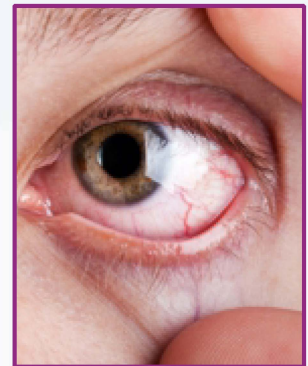


- Infected Wounds
- Wound Stitches Marks
- Venous Ulcer & Venostasis Ulcers
- Severe Burn & Cellulitis
- Non Healing Wound
- Diabetic Foot Ulcers & Diabetic Neuropathy
- Bed Sore Heels Pressure Ulcer
- Neuropathic Ulcer & Decubitus Ulcers

- Ocular Surface Disorders
- Ocular Epithelial Defects
- Symptomatic Dry Eye Disease
- Dormant Corneal Ulcers
- Refractory corneal ulcers

## Ultra Growth Naturally

- Tendon Ligament & Cartilage Injuries
- Plantar Fasciitis,
- Achilles Tendonitis
- Trigger Finger Tendon Injury
- Shoulder Adhesive Capsulitis (Frozen Shoulder)
- Chronic Elbow Inflammation
- Damaged shoulder rotator cuff
- Chondromalacia patellae (Ligament injury of ankle)
- Cervical Laminectomy
- LeFort Fractures (Guerin's Fracture)
- Knee Degenerative Arthritis
- Elbow Bursitis (Chronic Elbow Inflammation)
- Chondromalacia (Inflammation of Patella & Softening of cartilage)
- Lumbar Fusion (Spinal fusion surgery)
- Axillary Dissection
- Wedge Tarsectomy
- Thumb Degenerative Arthritis
- Non-Union Bony Defects



## Ocular Regeneration



## Orthopedic & Sport Injuries





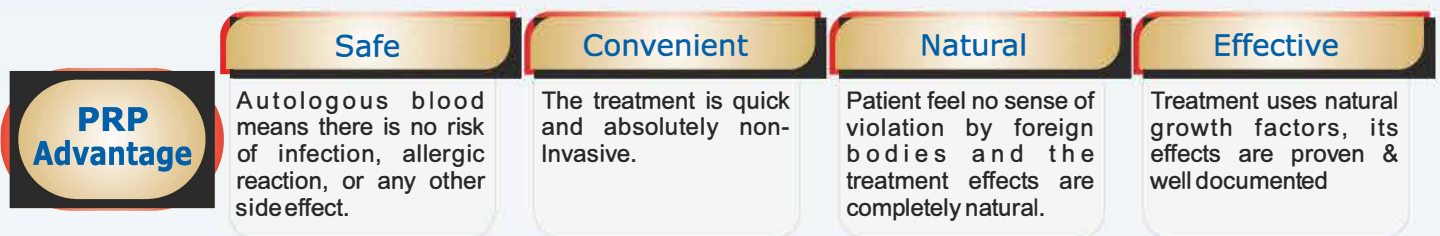
# Advantages of PRP Therapy

## PRP - Platelet Rich Plasma

The PRP therapy is gaining in popularity as single supportive treatment option for many indications. Autologous PRP contains different growth factors and other cytokines which may elicit gathering of stem cells around the damaged region stimulating cellular proliferation and tissue regeneration.

PRP contains growth factors that stimulate cellular growth and division.

- TGF-B (Transforming Growth Factor-beta)
- bFGF (Basic Fibroblast Growth Factor)
- PDGFa-b (Platelet Derived Growth Factor)
- EGF (Epidermal Growth Factor)
- VEGF (Vascular Endothelial Growth Factor)
- CTGF (Connective Tissue Growth Factor)



Autologous Platelet Rich Plasma (aPRP) is given as **Proliferation therapy** or **Regenerative injection therapy**.

Activated Platelets releases growth factors, proteins & cytokines that initiate and regulate natural wound healing. Fibrin, fibronectin, and vitronectin present in Plasma also contribute to repair matrix.

### Optimum Platelet Concentration Level for PRP: -

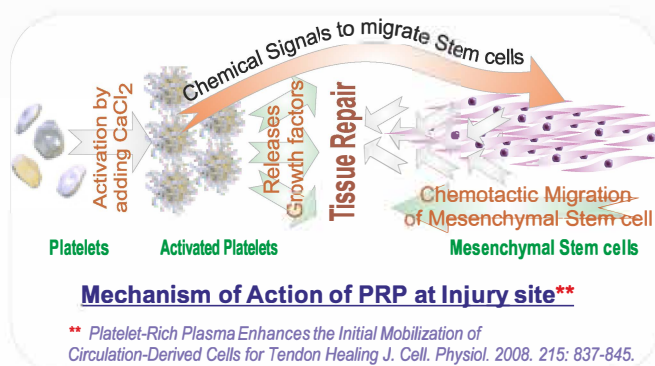
1m platelets/ $\mu$ L appears to be the "magic number" Or levels are in the 4-5x range, the influx of adult stem cells has been noted to increase by over 200%.

### Activation of PRP: -

Growth Factors from PRP are released within 10 minutes of activation. PRP can also be artificially activated by mixing with 10% calcium chloride (W/V) and/or thrombin to make a gel-like graft. The activation is either done just prior to injection or through injecting the activator simultaneously via another syringe at the desired healing site.

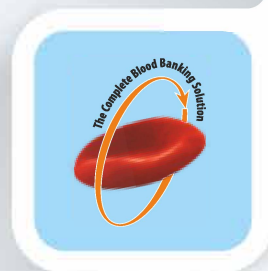
### PRP Mechanism of Action: -

PRP stimulates the chemotactic migration of human mesenchymal stem cells to the injury site in a dose-dependent manner - i.e., the more concentrated the platelets, the more stimulation.



**No PRP Added** **PRP Added**  
**Illustration of the split-thickness skin graft donor site at 45 days.\***

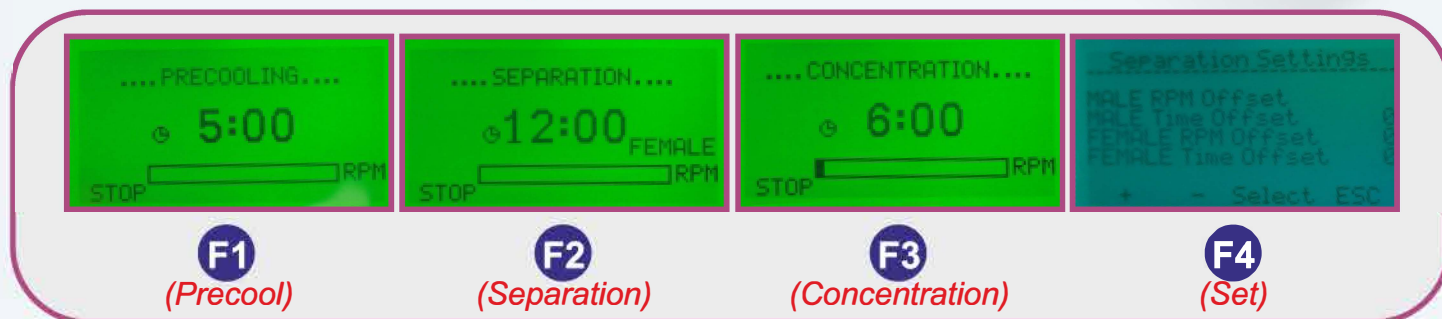
\* Dental and craniofacial applications of platelet-rich plasma. Quintessence Publishing Co. Inc. 2005



# PRP Ultra

## Next Generation Refrigerated Centrifuge

### Multicolor Display with Pre-validated Set Programs



### PRP Ultra Display

#### Dedicated Preset Function Keys:

- **F1** Pre-cool run before procedure
- **F2** 1st spin for platelet separation
- **F3** 2nd spin for platelet concentrate
- **F4** Speed & time adjustment for quality validation  
(Programmed for pre-cooled / run at 22°C temp)

Technical Data	
	PRP Ultra
Dimensions WxDxH (mm)	440 x 560 x 335
Voltage Stabilizers	VS - 02
Supply: 220-240 Volts 50 Hz single Phase	

### Corporate Marketing Office

### REMI SALES & ENGINEERING LTD.

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## The Perfect Companion



**PRP Ultra**

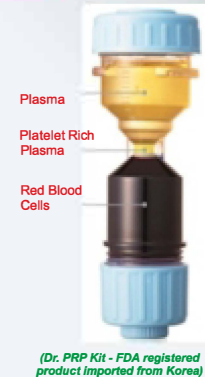


**DrPRP<sup>R</sup>**

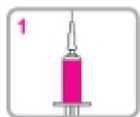
- ▶ **Autologous Platelet Concentrate at Its Best**
- ▶ **Dual Spin Method for Quality Platelet Yield**
- ▶ **Closed System Kit for Safe Therapy**



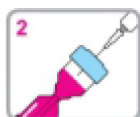
Dr.PR.P is a medical device exclusively designed for autologous PRP separation. Highly concentrated platelets by the Dr.PR.P kit release large amounts of growth factors which are normally inside the platelets.



## Extraction Procedure of Autologous Platelets



Use 20 cc syringe take 2 cc of anticoagulant and then draw 18cc of blood & mix well.



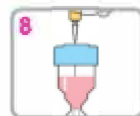
Inject the blood to Dr.PR.P kit through the upper injection port (For easier injection, tilt the kit)



**1st centrifugation**  
press F2 button on PRP Centrifuge. (balance before procedure)



Adjust the height of separated boundary by pulling up or down the adjusting knob.



Mix & draw Platelet concentrate with 5 cc syringe. Then administrate



Open the upper silicone lid on the Kit. Take out PPP with 10cc syringe



**2nd Centrifugation**  
press F3 button on PRP centrifuge. (balance before procedure)



Block the plasma and the RBC layer completely, fasten the adjusting knob (clockwise)

The viability of the platelets and continued release of growth factors into the tissue continues for seven days. The amount of initial platelets present in the wound determines the rate of wound healing.

Platelet-rich plasma: evidence to support its use.  
J Oral Maxillofac Surgery. 2004 62: 489-496. 28. Ibid. ref. 25; p 4

PRP may be valuable in enhancing soft-tissue repair and wound healing.

Enhanced histologic repair in a central wound in the anterior cruciate ligament with a collagen-platelet-rich plasma scaffold. J Orthop Res. 2007;25(8):1007-1017.  
G. Clinical use of platelet-rich plasma in orthopaedics. AAOS Now. 2012;6(8)

Physicians should consider platelet rich plasma prolotherapy for patients with tendinopathies before any surgical interventions.

Donna D. Alderman, DO Medical Director- Hemwall Center for Orthopedic Regenerative Medicine Valencia, California

## Laboratory Equipment



Quickfuge



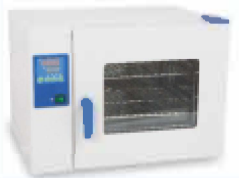
Dry Hot Air Oven



Tube Roller Mixer



VDRL Shaker



Heating Incubator



Water Bath

## Critical Care & Patient Support Equipment



Flabo - x



PRP Centrifuge



Mobile Transport Box

## Blood Banking Equipment

Therapeutic Chair



Blood Collection Monitor



Benchtop Tube Sealer



Thawing Bath



Blood Storage Cabinet



Platelet Incubator

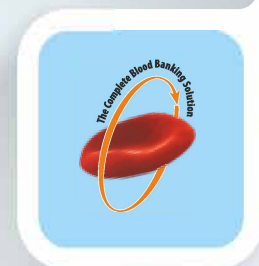


Plasma Freezer



Refrigerated Centrifuge





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