

BLOOD BANK CENTRIFUGE



INTRODUCING

KBM 90 Plus

16

BAGS CAPACITY

Your Success- Our Centrifuges

A legacy of Excellence for over 60 years, REMI has been at the forefront of centrifugation technology. with unwavering commitment to innovation, we've harnessed our expertise to create a centrifuge that stands tall among global brands.

At REMI, we firmly believe in Affordable Excellence - your institution can now enjoy world-class performance without compromising on



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**Engineered with
unmatched precision
to deliver consistent
and reliable results,
every time.**

KBM 90 Plus is the next generation centrifuge with High-speed precision. Our centrifuge ensures quick and accurate separation of Blood Components. KBM 90 Plus with 12 bags & 16 bags capacity Rotor options is ideally suited for Blood Banks handling large volumes, compatibility with all types of Blood Bags 450/350 ml volume with configuration like Double, Triple, Quadruple & Quintuple including inline filters.

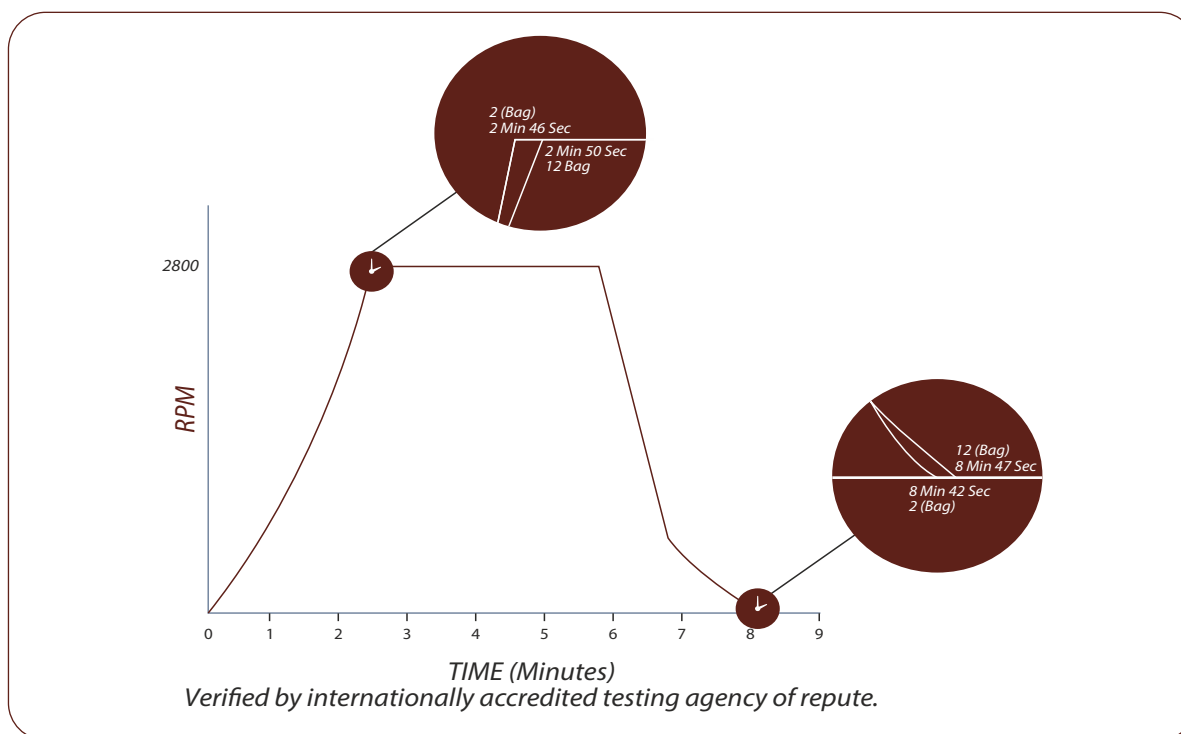
► Breakthrough Performance with Advanced Features.

“Adaptive Acceleration Control” in KBM 90 Plus offers

Dynamic and intelligent system that adjusts acceleration time on the fly, ensuring optimal centrifugation performance for every run. Advanced software algorithm that revolutionizes the way acceleration is managed, completely independent of load.

Traditionally, centrifuge acceleration profiles were fixed, leading to potential sample disruption or uneven results when dealing with varying load sizes and densities.

- ◆ **Load Agnostic Efficiency** – Regardless of sample size or density, **KBM 90 Plus** adapts to the specific conditions, reducing processing time and minimizing the risk of sample damage.
- ◆ **Enhanced Data Consistency**- The software algorithm maintains consistent acceleration profiles leading to more reproducible results.
- ◆ **Safety Assurance**: Our adaptive algorithm includes built- in safety protocols, preventing excessive acceleration that could jeopardize sample integrity.
- ◆ **Increased Throughput**: Faster, more efficient runs means improved blood bank productivity and reduced turnaround times.



Adaptive Acceleration Control of KBM 90 Plus automatically adjusts the centrifugal effect of varying load during acceleration itself, unlike other brands which requires run time adjustment programming due to significant impact of load on acceleration



► Advanced Door Automation

- ◆ Door opening & closing with onboard touch screen buttons
- ◆ Auto lifting & closing of inner rotor lid, no need for manual removal & fixing of inner rotor lid during centrifugation process
- ◆ Emergency door opening in event of power failure through

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► Advanced Touch Screen

- ◆ Gloves Friendly operation with menu driven settings
- ◆ Intuitive interface offers immersive & engaging experience
- ◆ Visual feedback for your actions, reducing the likelihood of errors & enhancing your confidence in using the product



► Data Acquisition System

In built system to collect & store all data related to centrifugation process like operator code, process type, time, temperature, RPM, RCF, Acceleration, Deceleration & process status etc. The data from the centrifuge can be extracted in the form of report through USB interface. The data can be used by blood banks for quality analysis & control.



► Remote Monitoring from Mobile

- ◆ Casting of live screen with dedicated mobile application
- ◆ Remote monitoring of run status & controlling centrifuge functioning
- ◆ Mobile App identifies & configures centrifuges



► Performance

- ◆ Wind shielded rotors offer energy saving & better temperature management
- ◆ Speed holding accuracy +/- 10 RPM
- ◆ Multiple acceleration & deceleration profiles
- ◆ Facility to set sequential programs under one program
- ◆ Temperature setting range from - 20deg C to + 40 deg C
- ◆ Low Noise Level < 55 dba
- ◆ Choice of 2 wind - shielded rotors with capacity to process 12 & 16 blood bags
- ◆ Tropicalized to run from 0 deg C to + 40 deg C & RH upto 95%

► Leading Technology

- ◆ Advanced user friendly fully microprocessor-controlled centrifuge
- ◆ Brush less induction motor with frequency drive, practically maintenance free
- ◆ Programmable centrifugation parameters for accurate control
- ◆ Onboard real time user data log in with password protection
- ◆ Dedicated software for data analysis/PDF reports, connectivity with USB
- ◆ Auto adjustable centrifugal force through Adaptive Acceleration Control
- ◆ Auto compressor cut off on lid opening
- ◆ Notification on screen when condensed water container is full and to be emptied out.

► User Friendly

- ◆ Facility to set & indicate RPM or RCF
- ◆ Facility to set 20 user profiles with password protected access
- ◆ Tamper Proof programming with protected admin control for key parameters
- ◆ Display of real time run graph with set & run parameters
- ◆ Programmable memory with facility to set upto 400 centrifugation programs , 20 programs under each user profile
- ◆ Onscreen manual, Troubleshooting & process guide
- ◆ Self diagnosis of errors
- ◆ Log of 1000 run records on Touch screen

► Safety

- ◆ Armored Chamber ensures minimized vibration & noise level
- ◆ Automatic lid interlocking when the rotor is in motion & unlocking only when rotor stops completely
- ◆ Imbalance detection, cut off automatically with indication & alarm
- ◆ Rotor over speed protection
- ◆ Alarms for imbalance, lid open, over temperature
- ◆ Password protection for authorized access
- ◆ Tamper proof program memory & last program recall
- ◆ Automatic Rotor Identification, display on screen
- ◆ Plastic buckets with slots to hold balancing weights separately
- ◆ Rotor Cycle counter with end of life notification
- ◆ Recovery of process in case of power interruption
- ◆ Castor wheels with floor standing jacks for vibration free run

Rotor & Buckets Specification

► Rotor Head & Bucket Set for 16 Blood Bag Capacity

K 761 - 8 Place rotor to hold swinging metal carriers having capacity to process 16 blood bags, 2 in each carrier.

Maximum RPM 3900

Total Volume Capacity (8 X 2 X 1000ml).



K 763- Set of 8 metal carriers suitable for rotor head K 761, having capacity to hold 2 blood bags in each carrier.

PB 763 L /PB 763 M – Set of 8 Large size/ Medium size Plastic Carriers to hold 2 blood bags each.



PB 763 XL - Set of 8 Extra Large size Plastic Carriers to hold quintuple, inline filter blood bags, 2 in each Carrier

PB 763 BF - Set of 8 Medium size Plastic Carriers with hook adaptors to hold 2 small volume bags in upright position. Ideally suited for preparing of Platelet Concentrate from PRP/ buffycoat.

► Rotor Head & Bucket Set for 12 Blood Bag Capacity

K 751 XR - 6 Place rotor to hold swinging metal carriers having capacity to process 12 blood bags, 2 in each carrier.

Maximum RPM 4700

Total Volume Capacity (6 X 2 X 1000 ml)



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K 753 - Set of 6 metal carriers suitable for rotor head K 751 XR, having capacity to hold 2 blood bags in each carrier.



PB 753 L / PB 753 M - Set of 6 Large size/ Medium size Plastic Carriers to hold 2 blood bags each.

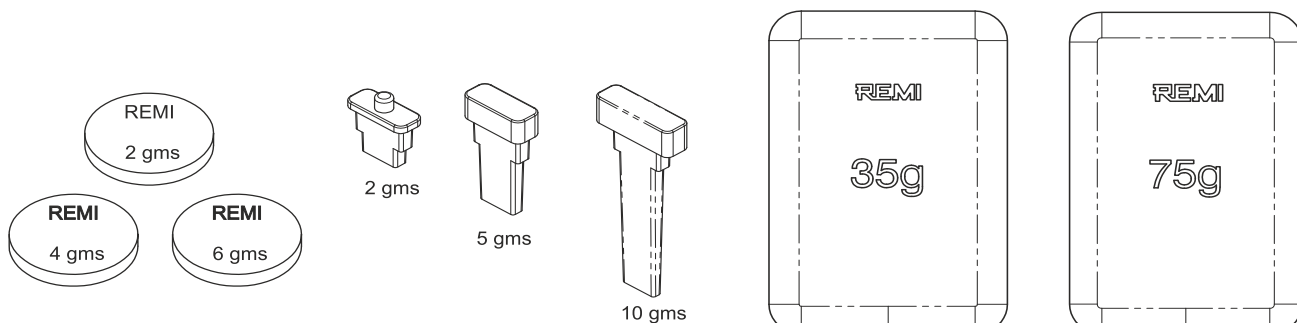
PB 753 BF - Set of 6 Medium size Plastic Carriers with hook adaptors to hold 2 small volume bags in upright position. Ideally suited for preparing of Platelet Concentrate from PRP/ buffycoat.



PB 753 XL - Set of 6 Extra Large size Plastic Carriers to hold quintuple, inline filter blood bags, 2 in each carrier.

Balancing Weights

Set of round cornered balancing weights available in different configurations to ensure counter balancing with safety of blood bags during centrifugation.



TECHNICAL SPECIFICATIONS

Parameter	Unit	KBM 90 Plus	
Process Control	Type	HMI Touch Screen	
Compatible Rotors	Code	K 751 XR	K 761
Max Speed	RPM	4700 settable +/- 1 RPM	3900 settable +/- 1 RPM
Max RCF	g	7286 X g	5612 X g
Menu Driven Program	Nos	400	
Acceleration Profile	Steps	1-15	
Deceleration Profile (incl coasting)	Steps	1-15	
Drive Technology		Brushless induction motor with frequency drive	
Adaptive Acceleration Control		Yes	
Timer Modes	Type	At start, at speed	
Step Runs		Yes, multiple profiles/speed/time triplets upto 3 steps each	
Rotor Cycle Log		Yes	
Imbalance Detection		Yes, imbalance detection with process abort notification & alarm	
Pre cooling Function		Yes, two precool programs for + 4 deg C & + 22 degC	
Weight		600 kg	
Power Consumption		6200 VA	
Max Time	hh: min	0 to 99 hr 59 mins 59 sec, Hold function	
Dimensions (W x D X H)	mm	950 x 1160 x 1010	
Compliance		IEC 61010-1:2016, IEC 61010-2-020:2016, EN 61326	

Optional : Servo Controlled Voltage Stabilizer (Recommended 7 KVA)

Supply : 220-240 Volts, 50 Hz, Single Phase



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