

EZ - SPIN Centrifuge

PLATELET-RICH FIBRIN (A PRF I PFR L PRF)
For Oral Implants, Laboratory & Facial Aesthetics



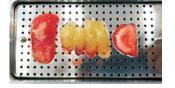












Instruction Manual

A Lid

B Rotor

C Open Button

P2 Button - IPRF

Speed AdjustmentStart/Stop Button

G Emergency Release Lever

(Bottom of unit)

H Time Adjustment

P1 Button - APRF

J RPM / RCF Button

K LCD Display

L Power Jack

M Power Switch

Includes:

- 6-place angled rotor for 7ml-15ml tubes
- 6 black inserts for 5ml-6ml tubes
- 6 white inserts for 3ml-4ml tubes
- 6 green inserts for 0.5ml-2.0ml microtubes
- Hex wrench for rotor nut

Introduction



EZ - SPIN centrifuge is a 6-place test tube centrifuge for spinning blood, urine, and other fluids in 0.5ml to 15ml test tubes and microtubes. The unit is very small, conserving counter space in the lab, but also sturdy with suction-cupped feet for stability. The digital controls allow speed and time to be adjusted with the touch of a finger and will show real-time speed and time remaining. The maintenance-free, brushless motor spins at 5,000rpm (2,500g) producing serum in as little as 5 minutes. Slow the speed to 2,000rpm (400g) to spin urines in 5 minutes. The auto-brake stops the rotor in 10 seconds, and the lid opens automatically upon completion. EZ-SPIN centrifuge can perform APFR, IPRF, IPRF Plus, Liquid APRF, LPRF, PRP, and PRGF.

Warranty

EZ - SPIN Centrifuge has a two (2) year limited warranty. This warranty is not valid on normal wear and tear, cosmetic damages caused by chemicals, solvents, and/or cleaning solutions, as well as acts of God.

Installation and Setup



This symbol refers to hazards that may be encountered when using this product.

CAUTION means that damage to product or environment could occur **WARNING** means that injury or contamination could occur

- 1 Remove the centrifuge from the shipping container and inspect for any possible shipping damage. If the centrifuge appears to be damaged, please contact Medco Instruments Inc.
- 2 Read the instruction manual in full before operating. Store the operation instructions in a safe place, easily accessible by the trained staff that will be operating the centrifuge.
- Place the centrifuge on a sturdy, level surface. Using the emergency release lever underneath the centrifuge, open the lid. Verify that there are no loose objects or packing material in the tube chamber. DO NOT LOAD TUBES AT THIS TIME.
- 4 Using the included hex wrench, verify that the silver rotor screw in the center is tight. Verify that there are no tubes or inserts in the rotor.



WARNING: Ensure the rotor is securely fixed to the rotor shaft. Failure to properly secure rotor could lead to personal injury or damage to the centrifuge.

- 5 Close the lid, ensuring that it clicks and locks.
- 6 Plug the power adapter into the rear of the unit, and plug the cord into an outlet. Press the **POWER** button to turn the unit on. The LCD display should light up.
- 7 Test the unit: Set the time at 3 minutes, and set the speed at 1,000 rpm. Press the START/STOP button. The unit should come up to speed with no vibration and a smooth and quiet sound. Second, set the speed at 5,000 rpm and run again. If there are unusual vibrations or sounds, stop the unit and contact Medco Instruments Inc.

Loading and Operation

Prior to each use, ensure rotor is secure on the rotor shaft. If rotor appears loose, securely tighten using included hex wrench.







2 Spin only balanced loads. Ensure that tubes of similar size and equal weight are placed opposite of each other, or place 3 equal tubes in a triangle as pictured below. Use a water-filled tube as a balance tube if necessary. Proper balancing will improve sample separation and extend the life of the centrifuge. Spinning out of balance loads may break test tubes or damage the centrifuge.



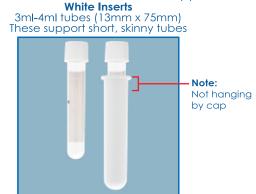






Loading and Operation Continued

3 Ensure that test tubes are supported from the bottom and not hanging by their caps. Use inserts as follows:







No Inserts
7ml-15ml tubes (16mm x100mm - 120mm)
Use the openings in the rotor



Green Inserts
0.5ml - 2.0ml microtubes
Microtubes ARE designed to hang
by the rim of the tube.







- 4 Set the speed and time as required or necessary
- Press the START/STOP button to run the cycle. The unit will stop on its own, beep, and open the lid upon completion.

For Facial Mixture Use Glass Tube Only use clean & Sterile tubes each time.					
P2 - IPRF = 700 RPM @ 3 mts .	IPRF Plus = 1300 RPM @ 5 mts.	IPRF = plastic tubes			
P1 = APRF = 1300 RPM @ 8 mts.	APRF = 9 lass tubes	LPRF = glass tubes = 2400 RPM @ 12 mts.			

WARNING/CAUTION: (1) Failure to secure rotor could lead to personal injury or damage to the centrifuge.

- (2) Use 6-place test tube rotor ONLY with this centrifuge. The unit is not designed to accept additional rotors.
- (3) Spinning unbalanced loads could damage unit and destroy samples.

Care, Maintenance, and Troubleshooting

The EZ - Spin centrifuge is designed to be maintenance-free. With proper care, this centrifuge will provide years of service. However, if repairs should be needed, please contact Medco Instruments Inc.

- 1 Use only quality sterile test tubes that are rated for the g-forces utilized. Lower-quality tubes may fracture and allow contents to leak out of tube.
- 2 Never force tubes into the rotor. The rotor was designed to hold the most common sized test tubes.
- 3 Clean with common laboratory disinfectants regularly. Do not allow moisture to seep into the centrifuge and do not immerse the electrical components in any liquid during the cleaning process.
- 4 Because of safety issues with high g-forces in a centrifuge, it is recommended that rotors be inspected monthly for wear and fatigue. If there is any indication of wear, the rotor should be removed from service. Contact Medco Instruments Inc. for return instructions so the rotor can be evaluated by a technician for repair or replacement. After 2 years of service, it is recommended that rotors be returned to Medco Instruments Inc. for inspection or replacement. Following these procedures will ensure safety of lab personnel as well as extend the life of the centrifuge.



CAUTION: If corrosion, scratches, or other abnormalities are found on rotor or tube shields, discontinue use and contact our service center.

Recommended Fluid Speeds and Times

Set the speeds and times as follows, or defer to clinical protocols if different:

Fluid	Tube Size	Inserts	Speeds	Times
Blood	Large (6ml-15ml)	None or Black	5,000rpm	5 minutes
Blood	Small (3ml-5ml)	White	5,000rpm	6 minutes
Blood	Microtùbes (0.5ml-2.0ml)	Green	5,000rpm	7 minutes
Urine	10ml-15ml urine tubes	None	2,000rpm	5 minutes
Fecals	10ml-15ml fecal tubes	None	1,700rpm	6 minutes

NOTE: G-Force is based on radius and speed. Using inserts for smaller tubes and microtubes reduces radius therefore reduces g-force, hence the spin times must be slightly longer in smaller tubes to achieve clear serum separations. Times and speeds can be adjusted based on visual results and clinical protocols.

Specifications

Speed Range: 300-5,000rpm (increments of 100)

Maximum RCF: 2,500g

Max. Volume: 6, 15ml test tubes

Input Voltage: 100-240v AC; 50-60Hz

Output Voltage: 24v DC, 4 amps

dBA: 53 dBA +/- 3 dBA @ 18"-24"

Timer:15 sec - 99 minDisplay:LCD Digital

Product Dimensions:

Height:6.2" (158 mm)Depth:10.6" (270 mm)Width:8.3" (212 mm)Weight:9.9 lbs (4.5 kg)

Boxed Dimensions:

Height:8.75" (203.2mm)Length:11" (279.4mm)Width:15" (381mm)Weight:12.25 lbs (5.56kg)

G-Force Chart

	G-Force (RCF)				
Speed (rpm)	No Inserts / Black Inserts	White Inserts	Green Inserts	Medco	
	Radius: 9cm	Radius: 8cm	Radius: 7cm		
500	25g	22g	20g	"We're always in your hands"	
1000	101g	89g	78g	www.medcoinstruments.com www.medcoprfcourses.com	
1500	226g	201g	176g		
1700	290g	258g	226g	Fecals - 6 minutes	
2000	402g	358g	313g	Urine 5 minutes	
2500	629g	559g	489g	Marketed By:-	
3000	906g	805g	704g	SARK HEALTHCARE PVT. LTD. J-8, 1st Floor, East Vinod Nagar, Opp. Mayur Vihar-II, Delhi-110091, Tel.: 011-22780060, 227482043 Email: info@sarkcare.com, Website: www.sarkcare.com	
3500	1233g	1096g	959g		
4000	1610g	1431g	1252g		
4500	2038g	1811g	1585g		
5000	2516g	2236g	1957g	Blood - 3 to 8 minutes	