

OPTIMIZE YOUR SEPARATION RESULTS CENTRIFUGE SAFETY CONSIDERATIONS



Sample Containment & Hazard Control

Preventing the release of hazardous aerosols into a lab during centrifugation requires good laboratory practices.

1 First level of protection: Labware

Protect samples from aerosol leakage and spills with bucket and microplate carrier covers, disposable liners, heat-sealing/hydrostatic pressure sealing devices, and/or tubes with threaded caps with inserts/plugs and O-rings.

2 Second level of protection: Rotors

Well-designed rotors offer additional biocontainment.

- Annular fluid containment eliminates leakage into the centrifuge chamber even if the sample tubes leak.
- Dual-locking lids enable the rotor to remain sealed while being carried to a biocontainment hood for sample retrieval.
- Lid and cap assemblies for fixed-angle and swinging-bucket rotors are designed to create a hermetic seal with the O-ring when used in a hard-vacuum environment.

3 Third level of protection: Centrifuge

Filtration of the air from the rotor chamber provides a final line of containment against hazardous aerosols and splashes.



Optimize your separation results and ensure the safe and long-lasting operation of your centrifugation systems with good laboratory practices and equipment designed with your safety in mind.

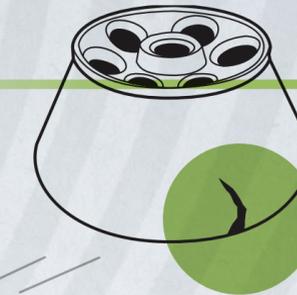
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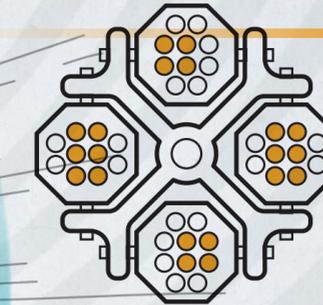
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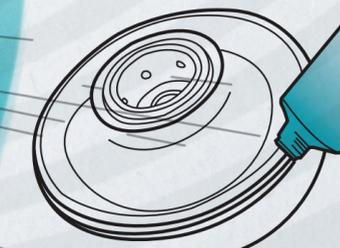
Inspection

Inspect the rotor at least monthly for rough spots, cracks, pitting, white powder deposits or heavy discoloration. Regularly check the condition of O-rings and replace any that are worn or damaged. For heavy usage replace O-rings twice a year, otherwise replace as required.



Safe Loading

Make certain samples and buckets are properly counterbalanced, with samples of equal size and weight placed in opposite positions on the rotor. Verify that all labware has the correct chemical resistances and attributes for the sample type and application you're running. Always make sure the rotor lid is properly attached and tightened.



Cleaning & Lubrication

Wash rotors and rotor components, including O-rings, with a mild detergent immediately if they come into contact with salts or other harmful materials; do not allow these materials to dry on rotor surfaces. Lubricating rotors, rotor components and accessories thoroughly on a regular basis will help extend their useful life. Use silicone vacuum grease for O-rings and Spinkote lubricant (Beckman Coulter) for rotor metal threads and rotor drive pins.



Decontamination

Rotors contaminated with radioactive or pathogenic materials must be decontaminated following appropriate laboratory safety guidelines and/or other regulations. Only use substances that do not damage anodized surfaces for decontamination, such as IsoClean Solution (for soaking) or RadCon Surface Spray (Nuclear Associates) and Radiacwash (Biodex Medical Systems).





Maximize Your Uptime by Keeping Your Centrifuge Running Safe

Protect Your Centrifugation Investment with our Field Rotor Inspection Program



Maximize personal safety and protect your investment by ensuring the long life of your centrifuge with Beckman Coulter's Field Rotor Inspection Program (FRIP).

This free program has two purposes:

1. To prevent premature failures by detection of stress corrosion, metal fatigue, wear or damage to anodized coatings
2. To instruct laboratory personnel in the proper care of rotors

Learn more about the Field Rotor Inspection Program at BeckmanCoulter.com/FRIP



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A leader in centrifugation and flow cytometry, Beckman Coulter has long been an innovator in particle characterization and laboratory automation, and its products are used at the forefront of important areas of investigation, including genomics and proteomics.

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- Researcher at a Children's Hospital, Beckman Coulter customer



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