

Aerosol-tight centrifugation – Instructions for use

These instructions for use for aerosol-tight centrifugation are a supplement to the operating manual for the centrifuge and are not a substitute. Read the operating manual before centrifuging aerosol-tight for the first time. The current version of the operating manual can be found on the Internet at www.eppendorf.com.

You have acquired a rotor and a rotor lid from Eppendorf to enable you to centrifuge materials or solutions hazardous to health in an aerosol-tight manner. We have applied the highest possible quality standards in order to supply you with reliable products. For your safety, Eppendorf has had the rotor and the rotor lid tested and a certificate issued by the Centre of Emergency Preparedness and Response, Health Protection Agency, Porton Down (UK) as per IEC 1010-2-020.

However, the length of time that your rotor, rotor lid and seal remain aerosol-tight depends upon your correct and careful usage of the products.

In addition to the following measures, follow the national regulations and guidelines applicable to you. Only all of these measures together can provide you with optimal protection:

- ▶ Consider aerosol-tight centrifugation with Eppendorf products just one of several measures you should take when handling hazardous materials or solutions.
- ▶ Only work with dangerous substances following thorough familiarization in a laboratory appropriate for this.
- ▶ If necessary, protect yourself with protective clothing such as a mask, safety glasses and gloves.
- ▶ Use safe tubes and close these carefully.
- ▶ Only work with dangerous materials when you are healthy and when your decision-making ability is not impaired by medication or other substances.

For optimum handling of Eppendorf aerosol-tight centrifugation products, take the following measures:

- ▶ Use the correct rotor/rotor lid combination.
When using an aerosol-tight rotor lid, ensure that it is used exclusively in the intended centrifuge and with the intended rotor. Use only rotors and rotor lids designated as **FA**. Aerosol tightness can only in this way be guaranteed.

Information as to in which centrifuge the rotor lid may be used will be found on the upper side of the rotor lid as of October 2003 production dates. Under no circumstances should you use the rotor lid in a centrifuge other than that stated on the rotor lid. The aerosol-tightness can otherwise no longer be guaranteed!

- ▶ Check seals.
The aerosol-tight rotor lid comes equipped with two seal rings: one on the lid screw and one on the lid groove. The aerosol-tight rotor lid may only be used with undamaged, clean seals. Frayed, worn or dirty seals do not provide adequate protection and may lead to loss of aerosol-tightness.
Incorrect autoclaving can also cause damage. We recommend coating the threads of the rotor lid with a thin layer of pivot grease after each autoclaving process (Order no. International 5810 350.050, order no. for North America 022634330). The rotor lid should be replaced by a new, aerosol-tight rotor lid every 10 autoclaving cycles (121 °C, 20 min).
The rotor lids of the rotors FA-45-24-11 and FA-45-24-11-Special for Centrifuge 5424 / 5424 R should be replaced by a new, aerosol-tight rotor lid every 50 autoclaving cycles.
Check regularly that seals are undamaged! Rotor lids with defective seals may no longer be used and must be replaced with a new rotor lid.
Following 50 autoclaving cycles or in the event of a defective external seal on rotor FA-45-18-11 for Centrifuge 5418 / 5418 R or on rotor FA-45-6-30 for Centrifuge 5804 / 5804 R / 5810 / 5810 R, only the external red sealing ring, not the entire rotor lid, needs replacing.

- ▶ Rule out contamination and damage.
Impurities caused by chemicals or other aggressive solutions attack the material of the rotor, the rotor lid and the seals. This can result in a loss of aerosol-tightness. Clean the rotor and rotor lid with neutral detergent immediately. This applies particularly to the bores of the rotor.
Mechanical factors can cause damage to the rotor and the rotor lid (e.g. falls, scratches, blows ...). Carry out a visual inspection of the rotor and rotor lid prior to usage.



Damaged rotors or rotor lids may no longer be used.

Please note that, in order to preserve the seal, the aerosol-tight rotor may not be stored with the lid attached tightly.

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Ordering information

Article	Order no. International	Order no. for North America
Centrifuge 5415 D / 5415 R		
Rotor FA-45-24-11 incl. aerosol-tight rotor lid	5425 737.009	022636596
Aerosol-tight rotor lid for FA-45-24-11	5425 740.000	022636758
Centrifuge 5417 C / 5417 R		
Rotor FA-45-24-11 incl. aerosol-tight rotor lid	5490 061.004	022636570
Aerosol-tight rotor lid for FA-45-24-11	5490 063.007	022636782
Rotor FA-45-30-11 incl. aerosol-tight rotor lid	5490 025.008	022636057
Aerosol-tight rotor lid for FA-45-30-11	5490 025.806	022669133
Centrifuge 5418 / 5418 R		
Rotor FA-45-18-11 incl. rotor lid	5418 707.005	022652061
Aerosol-tight rotor lid for FA-45-18-11	5418 708.001	022652087
Replacement seals for rotor lid FA-45-18-11, set of 5	5418 709.008	022652109
Centrifuge 5424 / 5424 R		
Rotor FA-45-24-11 incl. rotor lid	5424 702.007	022653008
Aerosol-tight rotor lid for FA-45-24-11	5424 703.003	022653024
Rotor FA-45-24-11-Special incl. rotor lid	5424 700.004	022653041
Aerosol-tight rotor lid for FA-45-24-11-Special	5424 701.000	022653067
Centrifuge 5430 / 5430 R		
Rotor FA-45-30-11 incl. rotor lid	5427 713.000	022654047
Aerosol-tight rotor lid for FA-45-30-11	5427 719.008	022654063
Rotor FA-45-24-11-Kit incl. rotor lid	5427 703.004	022654128
Aerosol-tight rotor lid for FA-45-24-11-Kit	5427 704.000	022654144
Rotor FA-45-24-11-HS incl. rotor lid	5427 710.000	022654080
Aerosol-tight rotor lid for FA-45-24-11-HS	5427 711.007	022654101
Centrifuge 5804 / 5804 R / 5810 / 5810 R		
Rotor FA-45-30-11 incl aerosol-tight rotor lid	5804 726.006	022637100
Aerosol-tight rotor lid for FA-45-30-11	5804 736.001	022669133
Rotor FA-45-6-30 incl. aerosol-tight rotor lid and 15 ml Falcon adapter	5820 715.006	5820715006
Aerosol-tight rotor lid for FA-45-6-30 only	5820 716.002	5820716002
Replacement seals for FA-45-6-30, set of 5	5418 709.008	022652109

Technical specifications subject to change!

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Your local distributor: www.eppendorf.com/worldwide

Eppendorf AG · 22331 Hamburg · Germany · Tel: +49 40 538 01-0 · Fax: +49 40 538 01-556
E-mail: eppendorf@eppendorf.com

Eppendorf North America, Inc. · 102 Motor Parkway · Hauppauge, NY 11788-5178 · USA
Tel: +1 516 334 7500 · Toll free phone: +1 800 645 3050 · Fax: +1 516 334 7506 · E-mail: info@eppendorf.com

Applications Support

Europe, International: Tel: +49 1803 666 789 · E-mail: support@eppendorf.com
North America: Tel: +1 800 645 3050, menu option 2 · E-mail: techserv@eppendorf.com
Asia Pacific: Tel: +60 3 8023 6869 · E-mail: support_asiapacific@eppendorf.com