

Instructions for use

Rotor A-2-DWP-AT for Centrifuge 5810/5810 R
English (EN)

This document supplements the operating manual of the Centrifuge 5810/5810 R, but does not replace it. Therefore, also read the operating manual. The current version can be found online at www.eppendorf.com.

1 Product description

The A-2-DWP-AT rotor is designed for aerosol-tight centrifugation of deepwell plates, microplates and PCR plates.

2 Safety notes



WARNING! Risk to health due to limited aerosol tightness in the event of incorrect use.

Autoclaving, mechanical stresses and contamination from chemicals or other aggressive solvents can impair the aerosol-tightness of the buckets and caps.

- ▶ Regularly check that the seals of aerosol-tight caps are undamaged.
- ▶ Only use aerosol-tight caps with undamaged and clean gaskets.
- ▶ Replace aerosol-tight rotor caps after 50 autoclave cycles.
- ▶ Never store aerosol-tight buckets with tightened caps.



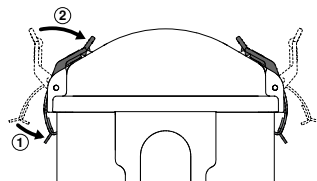
NOTICE! If handled incorrectly, the rotor can fall over.

The buckets of the rotor A-2-DWP-AT must not be used as a handle.

- ▶ Remove the buckets before moving the rotor.
- ▶ Always pick up the rotor at the rotor cross using both hands.

3 Centrifugation

1. Load the plate holders with the plates and insert them in the buckets.
2. When doing so, follow the instructions for symmetric loading included in the instructions for use of the centrifuge.
3. Place the caps on the buckets.
4. Fold the upper stands outwards and insert the hooks of the stands into the grooves of the buckets (1).
5. Close the upper stands while holding the stand hooks positioned in the grooves (2).
6. Hang both buckets in the rotor.



Always complete FastTemp runs at low temperatures without a cap. Otherwise, the caps may adhere due to a vacuum in the bucket. Do not pull on the bracket to loosen the cap. Incubate the bucket to room temperature so the caps can be easily removed.



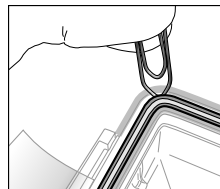
In order to guarantee aerosol-tight centrifugation, check that all hooks are in the grooves and the caps are correctly closed. The caps may not rest on plates that have been stacked too high.

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4 Replacing the seal

4.1 Removing the seal

1. Using a blunt lever, lift the rubber seal out of the groove on one of the four corners. Use, for example, the rounded edge of a paper clip.
Be careful not to damage the seal with the wire end.
2. Carefully pull the seal out of the groove.



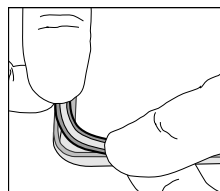
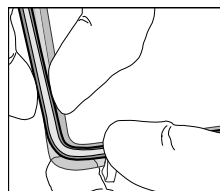
4.2 Inserting the seal



NOTICE! Faulty seal due to incorrect handling.

- ▶ Uniformly insert the seal.
- ▶ Do not pull the seal lengthwise.
- ▶ Do not insert the seal twisted.

1. Check the seal for integrity.
Do not insert any damaged, discolored or dirty seals.
2. Place the seal on an even base.
The seal automatically sits evenly if it is not twisted. If this is not the case, untwist the seal.
When the seal is inserted, the upper or lower surface of the seal must form the contact surface to the bucket.
3. First, place the seal on a straight side of the cap above the groove and press the seal into the groove.
4. Using the underside of the thumb, push the seal into the groove up to the corner. Guide the seal around the corner with the other hand.
5. Proceed in the same manner with the first three corners.
6. Finally, push the seal into the last corner from both sides at the same time.
7. Check that the seal is correctly positioned.
8. Place the cap on the bucket.
The cap must close easily.



If the seal is too long or too short, take it out of the groove and re-insert it.

5 Cleaning and Disinfection

Use a mild cleaning agent for cleaning.

Use alcohol (ethanol, isopropanol) or disinfectants containing alcohol for the disinfection.

1. Clean and disinfect the rotor, bucket and rotor removal tool.
2. Clean and disinfect the cap.
In the process, the seal must be removed in order to thoroughly clean the groove located underneath (see *Removing the seal*).
3. Before the next centrifugation, correctly re-insert the seal in the clean and dry groove (see *Inserting the seal*).

Rotor, bucket, cap and rotor removal tool can be autoclaved (121 °C, 20 min). The seal must be replaced after a maximum of 50 autoclaves.

6 Retrofitting older centrifuges

The rotor A-2-DWP-AT can be used in the Centrifuge 5810/5810 R without retrofit as of serial number 60.000. Older centrifuges can be retrofitted as of serial number 10.000 (for Centrifuge 5810) and as of serial number 12.000 (for Centrifuge 5810 R).

The retrofit may only be completed by a trained service technician. Please contact your retailer if necessary.

7 Technical data

Max. <i>g</i> -force (rcf)/rotational speed (rpm)	3 486 × <i>g</i> /4 500 rpm
Max. allowed loading height:	60 mm
Max. load per bucket:	500 g
Max. centrifuging radius:	154 mm

8 Delivery package

1 A-2-DWP-AT rotor cross 2 buckets 2 aerosol-tight caps	2 plate holders 1 tube of pivot grease
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9 Ordering information

Order no. (International)	Order no. (North America)	Description
5820 710.004	5820710004	Rotor A-2-DWP-AT incl. 2 buckets, 2 aerosol-tight caps and 2 plate holders
5820 711.000	5820711000	Bucket for rotor A-2-DWP-AT 2 pieces
5820 713.003	5820713003	Aerosol-tight bucket cap, rotor A-2-DWP-AT 2 pieces
5810 350.050	022634330	Pivot grease Tube 20 mL
5820 705.000	5820705000	Spare seal for aerosoltight cap 2 pieces

Your local distributor: www.eppendorf.com/contact

Eppendorf AG · 22331 Hamburg · Germany

eppendorf@eppendorf.com · www.eppendorf.com