



MedizinTechnik

English

Operating Instructions

ATMOS[®] Chair 21 P





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1.1 Notes on Operating Instructions



These operating instructions contain important notes on how to operate the ATMOS® Chair 21 P safely, correctly and effectively. Their reading helps to avoid risks, and also to reduce repair costs and down-times. This increases, amongst other things, the reliability and service-life of the device.

These operating instructions serve not only for new operating personnel to be instructed in its use, but also for use as a reference manual. Reprints (also in extracts) only with permission in written form by ATMOS.

These operating instructions must always be kept available near the device.



Care and safety inspections in conjunction with professional execution provide for operational safety and readiness for use of your ATMOS® Chair 21 P and are therefore a must besides regular cleaning.

Repair work and safety inspections may be carried out only by expert personnel authorised by ATMOS. By applying only original spare parts you will have the guarantee that operational safety, readiness for work and the value of your ATMOS® Chair 21 P will be preserved.



- The patient chair ATMOS® Chair 21 P bears CE marking CE according to the EC Directive of the council for medical products 93/42/EEC Directive 2007/47/EC from 05.09.2007 and meets the basic requirements of Appendix I of the directive.
- The product ATMOS® Chair 21 P complies with all applicable requirements of the Directive 2011/65/EC restricting the use of certain hazardous substances in electrical and electronic equipment ("RoHS").
- The declaration of conformity and our general standard terms and conditions can be obtained on our website at www.atmosmed.com.
- The quality management system applied at ATMOS has been certified according to international standards EN ISO 13485.
- Prior to start-up please peruse chapter 2.0 „For your safety“, in order to be prepared for any possible dangerous situations.

These operating instructions are valid for the following devices:

ATMOS® Chair 21 P REF 503.0730.0
Colour: white-dove blue

ATMOS® Chair 21 P REF 503.0700.0
Colour: basic-dove blue

Please keep this document for future consultation!



1.2 Function

- The patient chair ATMOS® Chair 21 P guarantees a comfortable posture for the patient (seating or half-lying position) at optimum examination position.
- The ATMOS® Chair 21 P is equipped with a mechanical height adjustment. The seat height can be varied between 46 and 66 cm.
- The upper part of the chair can be rotated by 360° and can be locked at any height and rotary position by a fixing brake.
- The shoulder-high, reclining backrest can be infinitely adjusted from -5° forward tilt to 45° backward tilt.

1.3 Intended use

Name: ATMOS® Chair 21 P

Main function: The patient chair enables the optimum positioning of the patient with regard to height and access (sitting or half-lying).

Medical indications / application: Positioning of the patient during standard ENT examinations and / or therapy.

Specification of the main function: Seamless seat made of abrasion resistant and tear-proof leatherette, backrest is infinitely variable with gas compression from -5° up to + 45°, solid plastic arm rest, open in front for optimum legroom, safe head positioning due to a pre-set and height adjustable headrest, infinitely variable height adjustment of the seat via an electric motor from approx. 46 cm up to 66 cm, easy patient positioning resulting from the 360° rotation around its own axis. The seat can be easily locked in any height and rotating position using the foot pedal, the positioning of the foldable foot support (optional) is done via synchronous coupling with the backrest inclination, powder-coated base plate with rubber protection ring, disinfectant-resistant leatherette colour combination.

Application organ: Positioning of the patient

Application time: Temporarily (up to 60 minutes)

Application site: In clinics and practices for ENT doctors and phoniaticians. The application of the patient chair must be executed by medically trained persons only.

Contraindications: Not suitable as a swivel chair for testing the nystagmus stimulation, for patients weighing more than 150 kg, a backrest inclination is only possible when the chair is anchored to the floor, not suitable for positioning the patient in the shock position (completely horizontal)

The product is: Not active

Sterility: Not sterile

Single-use product / reprocessing: No single use product

1.4 Scope of supply

Prior to dispatch, this ATMOS patient chair was subjected to an extensive functional test and has been carefully packed. Nevertheless, please compare the contents of the shipment on completeness immediately upon receipt (see delivery note).



1.5 Transport and storage

- After the transport of the device in temperatures below 0°C or prior to first start up it should be kept at room temperature for at least six hours. If the device **is not** acclimatized, it may not be used.
- Only transport the device in a shipping carton, which is padded and offers sufficient protection.
- If damage occurs during transport:
 - Document and report the transport damage.
 - Send the device to ATMOS (Chapter „6.2 Sending in the device“ on page 11).

Ambient conditions:

Transport / storage:

-20...+50 °C

5...90 % air humidity without condensation

at an air pressure of 700...1060 hPa

Operation:

+5...+35 °C

20...80 % air humidity without condensation

at an air pressure of 700...1060 hPa

1.6 Explanation of symbols



Important information!

SN

Serial number



Caution, observe operating instructions!

REF

Order number



The CE sign shows that this product meets the appropriate requirements of the EC Directives.



Manufacturing date



For your safety

- To guarantee safe operation of the ATMOS® Chair 21 P, it must be anchored to the floor.
- The swivel joint must be locked (multifunctional lever in the uppermost position = swivel locking) before the patient sits down / stands up and prior to starting the examination (after positioning of the patient).
- Ensure that the patient sits in the middle of the seat. A constant unilateral strain on the seat can damage the surface.
- There are no warranty claims whatsoever on defects which arise from the use of third party accessories or consumables.
- ATMOS neither guarantees for fault-free operation nor for personal injuries and damage to property if:
 - no original ATMOS parts are being used,
 - the advice for use in these operating instructions is not being observed,
 - assembly, new settings, alterations, extensions and repairs have been carried out by personnel not authorised by ATMOS.
- Please observe the ambient conditions stated in the technical data (chapter 9.0).
- Prior to use a visual inspection is required. If any parts are defective the ATMOS® Chair 21 P may not be used. Please contact your service partner.
- Please note the ATMOS® Chair 21 P may not be lifted or transported by pulling on the operation lever.



Fig. 1. ATMOS® Chair 21 P with selectable option rigid foot support

3.1 Operating elements

- ❶ Headrest
- ❷ Lever for adjusting the backrest
- ❸ Lever for adjusting the seat height
- ❹ Rigid foot support (optional)



Fig. 2. Drillings for anchoring the base plate

3.2 Fixing the patient chair

- ❶ To guarantee safe operation of the ATMOS® Chair 21 P, it must be anchored tightly to the floor.

The patient chair is anchored by means of the enclosed fixing set. To do this the cover plugs must be removed from the fastening drillings and the chair must be anchored to the floor with the plugs and screws (Fig 2).



Fig. 3. Fixing the foot support

3.3 Mounting the foot support

Use the enclosed Allen wrench and the 2 socket screws to attach the foot support to the bottom of the seat. Due to the elongated holes in the mounting plate, the foot support can be individually positioned.



Fig. 4. Fixing the backrest

3.4 Fixing the backrest

Insert the backrest into the provided opening. The round bolts are locked into place by slightly tilting the backrest forward (❶, Fig. 4), tighten the bolts with the cylinder head screw M 8x20 and the spring washer Ø 8,1 (❷, Fig. 4).



Fig. 5.

❶ Clamping screw

3.5 Adjusting the headrest

The height of the headrest can be adjusted by turning the knob (❶, Fig 5).

The headrest can be adjusted in two different positions.

The headrest can be completely folded backwards and then removed from the support (Fig. 6).



Fig. 6. Turning the headrest

3.6 Removing the headrest

The headrest can be removed by pulling it upwards.



Fig. 7.

① Multifunctional lever

4.1 Positioning the patient

- ① Ensure that the patient sits in the middle of the seat. A constant unilateral strain on the seat can damage the surface.

4.2 Adjusting the seat height

The chair must always be in the lowermost position to accommodate the patient when he / she sits down / stands up. The **swivel joint** must be locked (multifunctional lever in the uppermost position = swivel locking).

- Press the multifunctional lever (①, fig. 7) to adjust the chair height.
- Lock the chair in the desired position (multifunctional lever in highest position = height locking).
- By pressing the multifunction lever completely, the chair goes back to the lowest position.

4.3 Rotating the upper part of the chair

The upper part of the chair with the patient can be completely rotated by moving the multifunction lever from its highest position (swivel locking) to the first catch position or if necessary lower until the brake is completely released. The upper part with the patient can then be rotated in the desired direction. Now move the multifunction lever to the highest position (swivel locking) when the desired position is achieved.

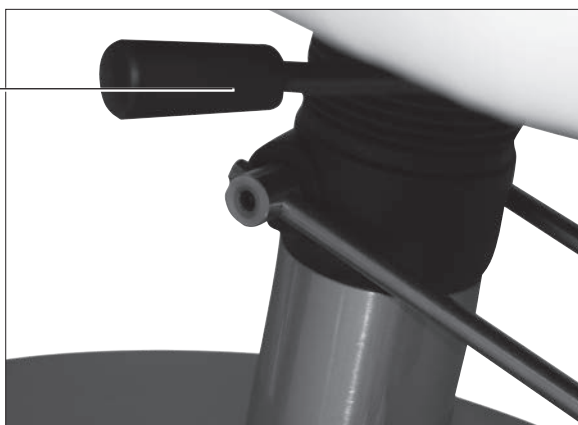


Fig. 8.

① Lever for adjusting the backrest

4.4 Adjusting the backrest

- The backrest can be adjusted to the desired position by pressing the lever (①, fig. 8) backwards.
 - When the lever is released it will return to its initial position. The backrest remains in the locked position.
- ① By pressing the lever backwards the installed gas pressure damper will induce the backrest to return to the upright position.

5.1 General information on cleaning and disinfection

Prior to cleaning

Medical chairs such as the ATMOS® Chair 21 P must be failsafe at all times.

- ☞ The described measures relating to cleaning and disinfection resp. sterilisation do not replace the relevant instructions which must be adhered to prior to operation!
- For disinfection, you may use all surface and upholstery disinfectants listed in chapter 5.3 and 5.4 "Recommended disinfectants".
- ☞ Always observe the concentration specifications and instructions by the respective manufacturer!
- Do **not** use
 - Disinfectants which contain organic or inorganic acids or bases as they could cause corrosion damage.
 - Disinfectants containing chloramides, phenol derivatives or anionic tensides, as these may cause stress cracks in the plastic material used.

5.2 Cleaning and disinfection of the device surface and upholstery

- The surfaces of the ATMOS® Chair 21 P are resistant against all the recommended surface disinfectants stated in chapter 5.3 and 5.4. Nevertheless after a longer period of use discolouration could occur.
- Substances such as blood must be removed immediately to prevent stains.
- The device itself can be wiped off with a moist (not wet) cloth.



Do not use aggressive or abrasive cleansing agents. For the upholstery standard dry foam may be used.

Treatment with a commonly used care product for artificial leather is recommended once a week in order to keep the upholstery soft and smooth.

5.3 Recommended surface disinfectants

- The surfaces of the ATMOS® Chair 21 P can be cleaned / wiped with disinfectants containing the following active ingredients: QAV (quaternary ammonium compounds)

5.4 Recommended disinfectants for the upholstery

Disinfectant	Ingredients	(in 100 g)	Manufacturer
ATMOS® Green & Clean SK (Application solution)	Di alkyl dimethyl ammonium chloride	< 1 g	Metasys, Rum (Austria)
	Alkyl dimethyl ethyl benzyl ammonium chloride	< 1 g	
	Alkyl dimethyl benzyl ammonium chloride	< 1 g	

6.0 Maintenance and Service



Maintenance, repairs and period tests may only be carried out by persons who have the appropriate technical knowledge and are familiar with the product. To carry out these measures the person must have the necessary test devices and original spare parts.

ATMOS recommends: Work should be carried out by an authorized ATMOS service partner. This ensures that repairs and testing are carried out professionally, original spare parts are used and warranty claims remain unaffected.

6.1 Period tests

- Please comply with the country-specific guidelines regarding regular testing.
- ATMOS neither guarantees for fault-free operation nor for personal injuries and damage to property if:
 - no original ATMOS parts are being used,
 - the advice for use in these operating instructions is not being observed,
 - assembly, new settings, alterations, extensions and repairs have been carried out by personnel not authorised by ATMOS.
- There are no warranty claims whatsoever on defects which arise from the use of third party accessories or consumables.

6.2 Sending in the device

- Clean and disinfect the product and accessories according to the operating instructions.
- Place used accessories with the product.
- Fill in the form QD 434 „Delivery complaint / return shipment“ and the respective **decontamination certificate**.
- This form is enclosed with each delivery and can be found at www.atmosmed.com .
- The device must be well padded and packed in suitable packaging.
- Place the form QD 434 „Delivery complaint / return shipment“ and the respective **decontamination certificate** in an envelope.
- Affix the envelope to the outside of the package.
- Send the product to ATMOS or to your dealer.

7.0 Troubleshooting



The ATMOS® Chair 21 P was subjected to a thorough quality control in the factory. If, however, any problems should occur please contact an ATMOS service technician.

Error indication	Possible cause	Remedy
Height adjustment of the chair is not possible	Lifting column is defective	Exchange lifting column - only by an ATMOS service technician
Downward movement of the chair under load	Lifting column is defective	Exchange lifting column - only by an ATMOS service technician
Backrest cannot be adjusted	Gas spring is defective	Exchange lifting column - only by an ATMOS service technician



8.1 Options

Description	REF
Footrest, rigid, made of silver-coloured metal tube and hard rubber	503.0731.0

8.2 Spare parts

Backrest complete, white/dove-blue	503.0712.0
Backrest complete, basic/dove-blue	503.0713.0
Cylinder head screw, inner edge 8 x 20	051.0087.0
Washer 8.4 form B	053.0012.0
Seat cushion, white	503.0714.0
Seat cushion, basic	503.0715.0
Cylinder head screw, inner edge 6 x 45	051.0131.0
Washer 6.4 form B	053.0006.0
Headrest complete	503.0723.0
Arm rest complete	503.0720.0
Cylinder head screw, inner edge 6 x 30	051.0083.0
Cylinder head screw, inner edge 6 x 20	051.0082.0
Washer 6.4 form B	053.0006.0
Base plate	503.0726.0
Counter sunk screw m 8x25.....	051.0387.0
Lifting cylinder	503.0716.0
Cylinder head screw, inner edge 6 x 20	051.0082.0
Slide bearing iglidur g.....	503.0718.0
Slide bearing iglidur g.....	503.0717.0
Axis for backrest.....	503.0721.0
Axis for gas spring rear	503.0724.0
Axis for gas spring front	503.0725.0
Lock washer 8	053.0110.0
Lock washer 6	053.0109.0
Release lever for gas spring	503.0727.0
Gas spring.....	503.0728.0
Fixation plate.....	503.0722.0
Seat complete	503.0710.1
Bracket for backrest complete.....	503.0711.1
Adhesive pads.....	000.0959.0

9.0 Technical data



Height adjustment	Manual, pump hydraulics
Ambient conditions for transport/storage	
• Temperature	-20...+50 °C
• Humidity without condensation	5...95 %
• Pressure	700...1060 hPa
Ambient conditions operation	
• Temperature	+5...+35 °C
• Humidity without condensation	30...95 %
• Pressure	700...1060 hPa
Seat height	46 - 66 cm
Backrest adjustment	50° (-5° ... 45°)
Rotation of the upper part	360°
Dimensions (HxWxD)	155 x 58 x 64 cm
Seat (diameter)	48 cm
Backrest (HxW)	58 x 54 cm
Leg rest (HxW)	34 x 33 cm
Headrest (HxW)	19 x 28 cm
Base (diameter)	60 cm
Weight	28 kg
Max. patient weight	150 kg
Period tests	Please comply with the country-specific guidelines regarding regular testing.
Classification according to Appendix IX EC Directive 93/42/EEC	I
CE marking	CE
GMDN code	10 - 794
UMDNS code	10794
ID No. (REF)	503.0730.0 white / dove blue 503.0730.0 basic / dove blue

Issue of the technical data: 01.03.2018

10.1 Checking ATMOS® devices

The ATMOS devices are maintenance-free when they are used according to the operating instructions.

Regular, thorough cleaning and disinfection of the chair and the application parts respectively the operation in line with the operating instructions is assumed.

10.2 Disposal

- The ATMOS® Chair 21 P does not contain any hazardous materials.
- The housing material is fully recyclable.
- Device and accessories must be decontaminated prior to disposal.
- Pay attention to a careful separation of the different materials.
- Please observe national disposal regulations (e.g. waste incineration).



Prior to disposal respectively before transport, all parts, which came into contact with the patient must be thoroughly cleaned and disinfected. The device surface must be disinfected.

Disposal within the EC

The device described above is a high-quality medical product with a long service life. After its life cycle it must be disposed of professionally. According to the EC directives (WEEE and RoHS) the device may not be disposed of with domestic waste. Please observe existing national laws and rules for disposal of old devices in the respective country.

Disposal within the Federal Republic of Germany

In order to guarantee a proper disposal of your old device, either pass on your old device to your specialised dealer or send it to ATMOS MedizinTechnik for disposal.

For your notes





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