ATMOS
MedizinTechnik

Operating Instructions

ATMOS® Chair Comfort

English

CE

GA1GB.130210.0

2018-11 Index 01

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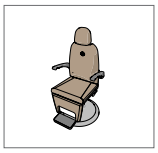
1 Introduction

1.1 Notices on the operating instructions



These operating instructions contain important instructions on how to operate your product safely, correctly and effectively.

These operating instructions are designed for training and instructing new operating personnel in the use of the system, and also for use as a reference manual. This document may only be reprinted, either in part or in whole, with written permission from ATMOS.

These operating instructions must always be kept to hand near the device.

Care, period tests, regular cleaning and proper application are essential. They ensure the operational safety and usability of the product.

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

Read chapter “2 Notices for your safety” on page 7 before using the product for the first time. This will help you to avoid potentially dangerous situations.

The product bears the CE marking CE in accordance with EC Directive 93/42/EEC of the Council concerning medical devices and meets the basic requirements of Appendix I of the directive.

The product complies with all the applicable requirements of Directive 2011/65/EC on the restriction of 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 viewed on our website at www.atmosmed.com.

The quality management system at ATMOS has been certified according to international standard EN ISO 13485.

These operating instructions are valid for the following devices:

- ATMOS® Chair Comfort basic 535.5000.0
- ATMOS® Chair Comfort sync 535.5100.0

1.2 Explanation of pictures and symbols

In the operating instructions

⚠ DANGER	Warning of a danger that results in immediate fatal or serious injury. Observe the necessary measures.
⚠ WARNING	Warning of a danger that can cause fatal or serious injury. Observe the necessary measures.
⚠ CAUTION	Warning of a danger that can cause minor injury. Observe the necessary measures.
ATTENTION	Notice of a danger that can damage the product or other objects. Observe the necessary measures.
⚠	Warning of a danger that can cause fatal or serious injury.
ⓘ	Notice of potential material damage.
☞	Useful information on the handling of the device.
1.	Action. Proceed step by step.
»	Result of an action.
→	Move/plug in this direction.
click	Engage, check correct fit.

On device and type plate

	Follow operating instructions (blue)
	Warning; take extra care to observe
CE	This product complies with the relevant requirements of the EU Directives.
	Manufacturer
	Manufacturing date
SN	Serial number
REF	Order number
	Professional disposal

	Equipotential bonding
	Maximum load

1.3 Intended use

Intended use

- As a treatment chair for treatment and examination on patients who are seated or lying down
- In clinical areas, medical practices, company doctors, dentists (prophylaxis)
- As an appropriate and comfortable surface for supporting the patient during treatment/examination. As an aid for the persons performing the procedure (in order to improve ergonomics and quality during the work)
- Intended users: exclusively for personnel in the appropriate department who have received the appropriate training and instruction, i.e. doctors, assistants, nurses, carers, etc.
- Installation and start-up may need to be carried out by the operating company's technical personnel, or those of an authorised specialist dealer

NON-intended use

- As a work chair
- As an operating chair/table
- As a substitute for a bed

1.4 Function

The ATMOS® patient chair can be adjusted to suit the individual patient. The seat height can be adjusted hydraulically using a pump lever, and the height and angle of the headrest can be altered manually. The backrest can be tilted back manually up to a fully horizontal position. The top section of the chair can be rotated, and the arm rests can be folded up individually.

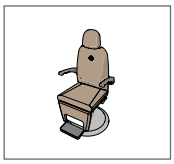
Versions

	Basic	Sync
Hydraulically adjustable seat height	x	x
Manually adjustable backrest	x	x
Synchronised leg rest		x

1.5 Intended users

Exclusively for personnel in the appropriate department who have received the appropriate training and instruction, i.e. doctors, assistants, nurses, carers, etc.

1.6 Scope of delivery



ATMOS® Chair Comfort

Operating Instructions

1.7 Transport and storage

Only transport the device in a shipping carton that is padded and offers sufficient protection.

If damage occurs during transport:

1. Document and report the transport damage.
2. Send the device to ATMOS, see Chapter “3. Check whether all the fixing screws are fully tightened.” on page 15.

Ambient conditions for transport and storage:

- Temperature: -10...+50°C
- Relative humidity: 20...95% without condensation
- Air pressure: 700...1060 hPa

2 Notices for your safety

The safety of the ATMOS® Chair Comfort corresponds to the recognised technical regulations and the guidelines in the German Medical Devices Act.

Please read and pay attention to the safety instructions prior to using the product.

2.1 General safety information

Never leave elderly persons, children, injured persons, persons with disabilities or other patients who require assistance alone on the patient chair.

The Declaration of Conformity shall be rendered null and void if any changes are made to the product by the customer or any third parties. This includes, but is not limited to: conversions of all types, the use of third-party accessories, and the removal of warning and information signs.

If any signs are missing from your device or no longer legible, contact ATMOS and replace the signs in question.

2.2 Danger for users, patients and third parties

Keep the device fully functional at all times.

Malfunctions could cause injury to you and your patients.

- Prior to each use, check whether the device is damaged. Do not operate the device if you notice any damage.
- Perform a function check at least once a week, and also at any other time if you have any concerns with regard to the safety of the device.
- Observe the specifications regarding period tests in chapter “6.1 Period tests” on page 15.
- Only use original accessories and original spare parts from ATMOS.
- Assembly, new settings, modifications, extensions and repairs may only be carried out by persons who are authorised by ATMOS.

Risk of tipping due to overloading on one side.

The patient chair may tip over, injuring you or your patient.

- Ensure that the patient sits in the middle of the seating surface. The patient must not be allowed to sit on the arm rest, backrest or leg rest.
- Move the patient chair to the bottom position and the backrest to an upright position before the patient sits down or stands up.

Risk of infection due to patient secretion on the device!

Risk of diseases being transmitted.

- Clean and disinfect the device after every use.
- Clean and disinfect the device in accordance with the operating instructions.

Only a fully functional product meets the safety requirements of users, patients and third parties. As such, observe the following instructions regarding the product.

2.3 Avoid damage to the device

Damage due to excessive load.

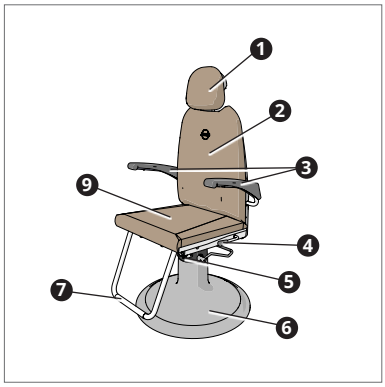
There is a risk of damage to the foot support.

- Do not allow patients to place their full weight on the foot support.

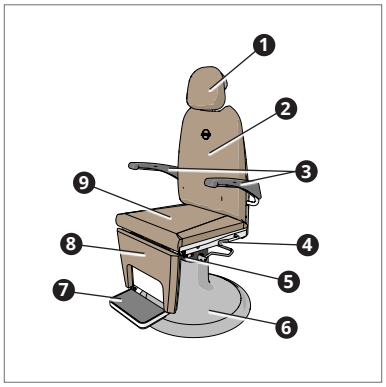
3 Setting up and starting up

3.1 Device overview

Front view



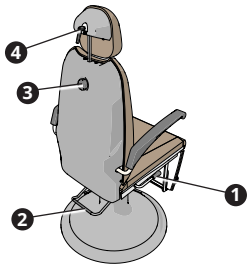
Basic



Sync

❶ Headrest
❷ Backrest
❸ Arm rest
❹ Backrest release lever
❺ Equipotential bonding connection
❻ Base
❼ Foot support
❽ Leg rest (Sync version)
❾ Seating surface

Rear view



❶ Backrest release lever
❷ Seat height pump lever
❸ Headrest locking screw (height)
❹ Headrest locking screw (angle)

3.2 Connecting the device

1. Clean and disinfect the product prior to first use.
2. Connect the equipotential bonding if required.

☞ The equipotential bonding must be connected if required by the spatial environment in which the product is going to be used. Refer to the specifications of standard IEC EN 60601-1.

3. Perform a function check; see Chapter “6.2 Function check” on page 15.

4 Operation

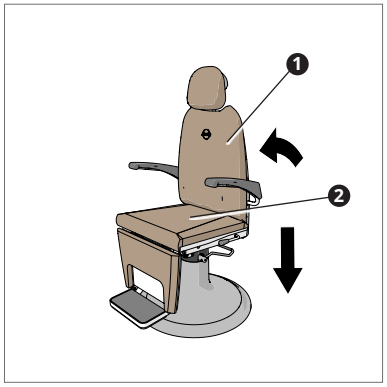
4.1 Ambient conditions during operation

The product is intended exclusively for use in buildings and under normal ambient conditions. Do not subject the upholstery to high temperatures.

- Temperature: +10...+35°C
- Relative humidity: 20...95% without condensation
- Air pressure: 700...1060 hPa

4.2 Positioning the patient

Ensure that the patient sits in the middle of the seating surface. The patient must not be allowed to sit on the arm rest, backrest or leg rest. Do not allow patients to place their full weight on the foot support.



⚠ Risk of tipping due to overloading on one side.

1. Move the backrest ❶ to an upright position.
2. Move the chair ❷ to its bottom position.
3. Do not let the patient sit down or stand up until this is done.

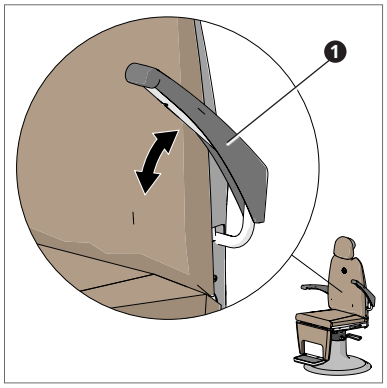
4.3 Adjusting the Patient Chair

⚠ CAUTION

Risk of crushing by moving parts.

There is a risk of the patient's fingers being crushed.

- The patient's arms must remain on the arm rest at all times while you are adjusting the patient chair.



4.3.1 Adjusting the arm rests

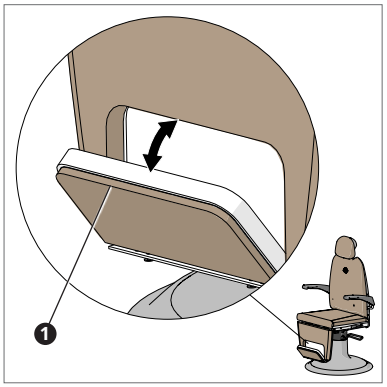
Folding the arm rests up

1. Fold the arm rest ❶ up in a controlled manner.

Folding the arm rests down

ⓘ The arm rests can be damaged if allowed to drop down under their own weight.

1. Fold the arm rest ❶ down in a controlled manner.



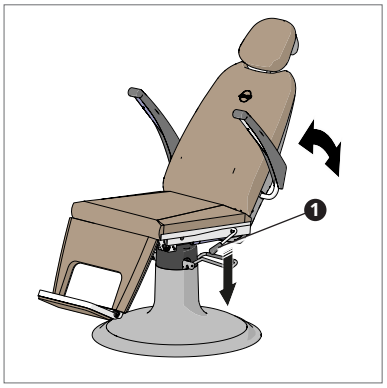
4.3.2 Adjusting the foot support (Sync version)

Unfolding the foot support

1. Pull the handle and fold the foot support down.

Folding the foot support away

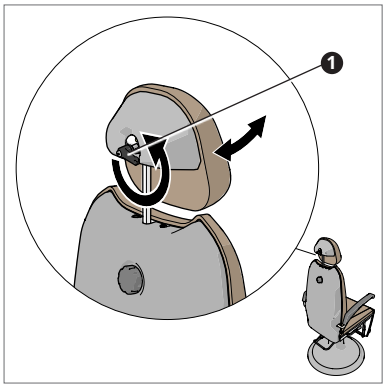
1. Fold the foot support up.



4.3.3 Adjusting the backrest

1. Push the backrest release lever ❶ down, pushing or pulling on the backrest at the same time.
2. Let go of the backrest release lever ❶ as soon as the backrest reaches the required position.

» The backrest is fixed in place.

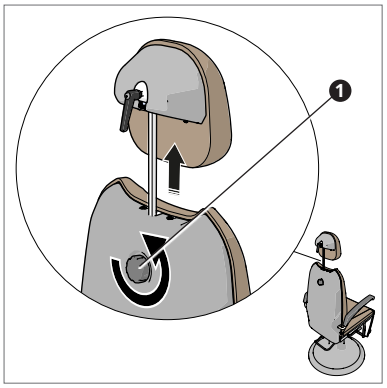


4.3.4 Adjusting the headrest

Angle

1. Undo the headrest locking screw (angle) ❶ and move the headrest to the required position.
2. Tighten the headrest locking screw (angle) ❶.

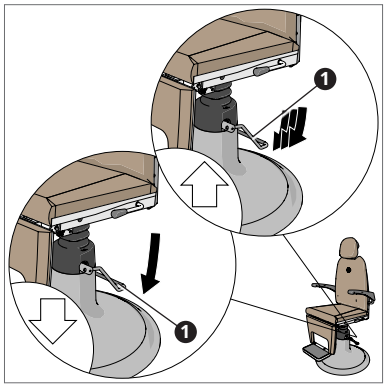
» The headrest is fixed in place at the current angle.



Height

1. Undo the headrest locking screw (height) ❶ and move the headrest to the required position.
2. Tighten the headrest locking screw (height) ❶.

» The headrest is fixed in place at the current height.



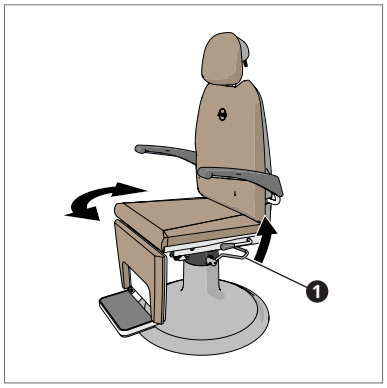
4.3.5 Adjusting the seat height

Upwards

1. Pump the pump lever ❶ to raise the seat height.

Downwards

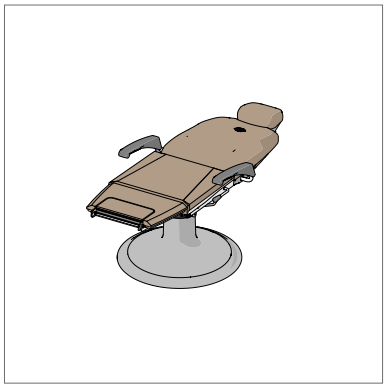
1. Push the pump lever ❶ as far as it will go.



4.3.6 Turning the Patient Chair

1. Turn the top section of the chair.
2. To fix the patient chair in place, push the pump lever ❶ up using your foot.

4.4 Adjusting the shock position



1. Adjust the angle of the backrest up to a fully horizontal position.

5 Cleaning and Disinfection

We recommend that you always document all maintenance work and part replacements in writing.

It is the responsibility of the user to ensure that the required results for cleaning and disinfection are adhered to. Validation and routine monitoring of the procedure will generally be necessary.

⚠ CAUTION

Risk of infection due to secretion on the product and accessories.

Risk of diseases being transmitted.

- Always wear disposable gloves during all cleaning operations.
- Clean the product after each use.
- Clean and disinfect the device in accordance with the operating instructions.

5.1 Cleaning and disinfecting the surfaces

Clean the product after each use. Disinfect the patient chair if it becomes contaminated by secretion or other substances, at least once per day is necessary.

1. Move the chair to its bottom position.
2. Moisten a clean, non-linting cloth with lukewarm, soapy water or a conventional plastic cleaning agent.
3. Clean the surfaces with the damp cloth.
4. Disinfect the surfaces with a clean, non-linting cloth and a recommended disinfectant.
5. Leave the device to dry before using it again.

5.2 Cleaning and disinfecting the upholstery

Always remove any oil, grease or sweat from the upholstery immediately. Clean the patient chair after each use. Disinfect the patient chair if it becomes contaminated by secretion or other substances, at least once per day is necessary.

1. Move the chair to its bottom position.
2. Use warm, mild, soapy water.
3. Clean the upholstery using a damp micro-fibre cloth or a soft brush.
4. Disinfect the upholstery with a clean, non-linting cloth and a recommended disinfectant. Do not allow the disinfectant to soak in for longer than necessary.

5.3 Recommended disinfectants

ATTENTION

Unsuitable cleaning agents and disinfectants.

Risk of damage to the device surface, corrosion damage and stress cracks.

- Do **not use** cleaning agents or disinfectants that contain the following ingredients:
  - Irritants
  - Substances that may damage plastics or steel components or dissolve lubricants.

ATTENTION

Unsuitable cleaning agents and disinfectants.

There is a risk of damage to the upholstery.

- Do **not use** cleaning agents or disinfectants that contain the following ingredients for the upholstery:
  - Solvents or chlorides
  - Polish or wax polish
  - Chemical cleaning agents
  - Oils, greases or alcohol
- Use cleaning agents with a pH value of between 6 and 8.
- Observe the manufacturer's specifications with regard to concentration and soaking-in time.

Use a suitable surface disinfectant.

6 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. The person must possess the necessary test devices and original spare parts required to carry out these measures.

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

6.1 Period tests

Please comply with the country-specific guidelines regarding regular testing.

ATMOS recommends performing a test every 24 months.

6.2 Function check

Perform a function check at least once a week, and also at any other time if you have any concerns with regard to the safety of the device.

1. Check whether the chair is damaged.
2. Move the chair to its bottom position, paying attention to any unusual noises.
3. Check that all the moving parts can be adjusted without any problems:
   - Backrest
   - Arm rests
   - Headrest
   - Foot support
4. Check whether the chair can be turned without any problems.

6.3 Lubricating moving parts

Lubricate the moving parts at regular intervals to keep them fully functional.

1. Remove any dirt from the moving parts.
2. Lubricate the axes and joints using commercially available oil or grease.
3. Check whether all the fixing screws are fully tightened.

6.4 Sending in the device

1. Clean and disinfect the product and accessories in accordance with the operating instructions.
2. Place used accessories with the product.
3. Fill in the QD 434 “Delivery complaint/return shipment” form and the corresponding **decontamination certificate**.

☞ This form is enclosed with each delivery and can be found at www.atmosmed.com.

4. The device must be well padded and packed in suitable packaging.
5. Place the QD 434 “Delivery complaint/return shipment” form and the corresponding **decontamination certificate** in an envelope.
6. Affix the envelope to the outside of the package.
7. Send the product to ATMOS or your dealer.

7 Troubleshooting

The product has been subjected to a thorough quality control in the factory. Should a fault occur despite this care, contact an authorised ATMOS service partner.

8 Disposal

Packaging

1. Please recycle the packing.

ATMOS® Chair Comfort

Do not dispose of the product together with household waste.

The product contains oil. Oil must be disposed of professionally, and must not be allowed to penetrate into the soil or water.

1. Clean and disinfect the device.
2. In Germany: Send the product in to ATMOS or your specialist dealer. They will dispose of the device professionally.
3. In other countries: Dispose of the product professionally and according to the country-specific laws and regulations.

The housing is fully recyclable. Observe to the country-specific laws and regulations.

Hydraulic unit and gas spring

Observe the following instructions if you are unable to return the product to ATMOS or your specialist dealer for disposal.

⚠ CAUTION

Risk of injury and crushing due to high internal pressure in the gas springs and sudden movements of the piston rods.

There is a risk of injury to the eyes, face and hands.

- Wear suitable protective equipment.
- Cover the vent.
- Take extra care when operating the release mechanism after the gas springs have been removed.

1. Depressurise the gas spring. Always observe the gas spring manufacturer's specifications. The manufacturer is named on the type plate.
2. Drain the oil used for the gas spring.
3. Drain the oil out of the hydraulic unit.
4. Dispose of the oil properly and professionally.
5. Recycle the hydraulic unit and gas spring.

9 Technical data

Seat height	56 cm (rigid seat upholstery)
Max. lifting capacity	150 kg (safe working load)
Height of backrest	600 mm (without headrest) 780 mm (headrest in bottom position)
Rotation	360°
Backrest inclination	+7° up to -90°
Ambient conditions for transport/ storage • Temperature • Humidity without condensation • Air pressure	 -10...+50°C 20...95% 700...1060 hPa
Ambient conditions for operation • Temperature • Humidity without condensation • Air pressure	 +10...+35°C 20...95% 700...1060 hPa
Maximum operational altitude	≤ 2000 m
Dimensions (LxWxH) • Basic version • Sync version	 820 x 670 x 1280 mm 700 x 670 x 1280 mm
Weight • Basic version • Sync version	 63 kg 59 kg
Period tests	Recommended: Test every 24 months.
Classification according to Appendix IX, EC Directive 93/42/EEC	Class 1 In accordance with Regulations 1 & 12, Section 3
CE marking	CE
UMDNS code	10-794
ID No. (REF)	535.5000.0 Basic 535.5100.0 Sync

10 For your notes

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