

OSKA™ ALTO⁴

SERIES3-V4 USER INSTRUCTIONS





CHANGING LIVES™

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**PLEASE READ THE FOLLOWING INSTRUCTIONS
CAREFULLY AND OBSERVE THE WARNING
INSTRUCTIONS BEFORE USING THE SYSTEM.**

KNOW YOUR SYMBOLS

	WARNING or CAUTION	IP __	Ingress protection rating
	WARNING: Situations or actions that may have an effect on patient or user safety. Ignoring a warning could cause patient or user injury.		Authorized EC Representative
	CAUTION: Points out special procedures or precautions that persons must obey to avoid equipment damage.		Machine wash at 95
	Manufacturer		Drip dry
	Follow Instructions for Use		<1% Chlorine
	Foot end		Do not iron
	Group of function		Tumble dry
	Separate Collection (used in accordance with Waste Electrical and Electronic Equipment Act)		Do not dry clean
	Type BF applied part		Class II equipment (Double insulated)
	CE marked		Resistant to ignition
	Catalogue number		Wipe down
	Serial number		Recycling
	Temperature range		



WARNING!

Only to be used for its intended purpose as described in this manual. Never attempt to repair the system yourself.

DO NOT use parts or individual components of other systems or products other than those described in this manual, or other documentation from OSKA™, to repair this mattress.

Avoid using multiple covers simultaneously.

DO NOT USE in close proximity with fire sources/hot surfaces. These include fire, burning cigarettes or hot lamps. This mattress has undergone fire testing but may still become damaged if contact with fire sources occurs.

Position the mattress correctly to prevent it becoming trapped and damaged.

NOTE: Bed rails can trap the mattress and cause damage.

Confirm that the bed frame is appropriate for use with the mattress, and that the length and width of the mattress are appropriate for the frame.

Avoid risk of suffocation from the mattress cover by positioning the patient correctly.

DO NOT puncture the mattress or mattress cover with needles or sharp instruments. This may result in loss of integrity of the mattress cover. Inspect the covers and zipper area for signs of damage, puncture, or wear that could result in fluid pass-through.

Handles included on the long side of the mattress cover should only be used for lifting and moving the mattress itself.

ABOUT YOUR MATTRESS

THE SYSTEM

OSKA Series3-V4 alternating pressure system is a replacement system which is designed to be placed directly onto the support surface of a nursing bed.

Application in regular bed types is possible, however, preference is given to a patient profile nursing bed.

The system consists of control unit featuring a membrane pump and a bed overlay with 20 air cells arranged in a transverse manner. The entire cell unit is equipped with a bi-elastic PU protection cover.

COVER:

The Series3-V4 comes with a cover which provide an impenetrable barrier to viruses and bacteria. The cover has welded seams that are ingress proof, minimising any risk of harbouring viruses or bacteria and transmitting infections.

The cover includes a fire evacuation base which means handles can be easily accessed in case of emergency and used for moving and transporting.

An additional inner cover protects the foam and cells.

RECOMMENDATIONS:

OSKA™ Series3-V4 self adjusting replacement pressure system is recommended to be used as an aid in the prevention and treatment of pressure ulcers up-to and including category 4.

CAPACITY:

OSKA™ Series3-V4 is recommended for

patient weight up to 175kg. Heavier patients are better accommodated with a more appropriate OSKA™ pressure system.

You must not lift the mattress whilst a patient is lying on it or use it to transport a patient unless in an evacuation.

HOW TO SET UP YOUR MATTRESS

UNPACKING THE MATTRESS

Please ensure the box is not damaged upon arrival. Avoid using a knife when opening the box and any other protective material as this could damage the mattress and/or cover.

Place the Series3-V4 onto the bed frame and adjust the cover if needed. The mattress has a black side that should be down on the bed frame, and a blue fabric side that should face up towards the patient.

Confirm that the bed frame is appropriate for use with the mattress, and that the length and width of the mattress are appropriate for the frame.

Place directly on a healthcare bedframe only, never on top of another mattress.

Leave for a few minutes before using.

HAND CHECK

The hand check should be conducted regularly to check the mattress is functioning correctly.

With the cover open, using a vertical hand, insert your hand between the air and cells directly underneath the patient's sacrum. The correct clearance between the mattress base and patient is 2-3 fingers. Check the cells and tubing if this is not the case. If problem persists please contact OSKA™.

SYSTEM SET-UP

1. Place pump on horizontal surface or hang by means of the hook.
2. Open mattress on the bed, secure it with the end flaps or straps (see 2). Air tubes must be at foot end of bed.
3. Connect air feed tubes to air outlet on the mattress (see 3a) and pump (see 3b), ensuring that the tubes are not kinked or twisted. Allow space for bed rails to drop freely.
4. Turn on the power. After a beep sound, the pump will begin the operation.
5. The pump will enter static mode initially when the power is turned on. The cycle time is set at 1st LED, 10 mins and the pressure level is set at 3rd LED (see 5). First will inflate the mattress to 18 ± 2 mmHg and then enter alternate mode.
6. For switching to static mode, press the Alternate/Static switching button and its indicator will come on (see 6). Press the button again to switch back to alternate mode.



OPERATION

1. During normal operation, the pump will monitor pressure changes. If the pressure is below a user-defined pressure level, the pump will automatically start to inflate the mattress. The pump will stop when the user-defined pressure level is reached.
2. If the pressure is consistently low, the audible alarm will beep and its indicator will come on to bring attention to a low pressure condition.
3. If there should be obvious leakage, for example caused by loose connection of tubes, the audible/visible alarm will be activated.
4. Press the Alarm Reset button to mute alarm: its indicator will flash
5. Press the Alarm Reset button again to have the audible alarm and its indicator on.
6. For nursing and caring convenience, press the Auto Firm button to automatically inflate the mattresses to the maximum level (above 180kg) for about 30 minutes. The pressure will return to a previously user defined level after 30 minutes.
7. In the case of a poor connection with tubing, or any other air leakage from the mattress, low pressure conditions will occur and the audible/ visual alarm will be activated.



CLEANING

CLEANING AND AFTERCARE GUIDELINES.

OSKA™ covers are durable but, as medical devices, they need treating with great care. The surface is vapour permeable so it is waterproof, but breathable to reduce sweating of patient. This outer barrier must not be penetrated. Even the smallest breach of this barrier will cause fluid to penetrate the mattress.

There are specific cleaning and care instructions that need to be strictly adhered to prolong the life of the product.

1. GENERAL DIRECTIVES

- 1.1 Abrasive cleaning agents should NOT be used.
- 1.2 In addition, due to the range of cleaning chemicals and conditioners being used, customers should ascertain that any fabric performs as expected, without any adverse effect.
- 1.3 Some surface wrinkling may result from cleaning procedures. This should have no adverse effect on the fabric's properties.
- 1.4 If customers have their own particular cleaning methods that must be used and that are not covered in this article, they should consult OSKA™ for further direction and guidance.

2. WASHING AND DISINFECTION

- 2.1 All polyurethane coatings need to be treated with care when cleaning the surface. Many industrial cleaning agents are extremely harsh on the coating and can cause it to break down.
- 2.2 For superficial dirt use a disposable wipe and a warm solution of neutral

detergent. Do not use abrasive cleaners.

- 2.3 Disinfect in situ using 0.1% sodium hypochlorite solution (1000ppm available chlorine). Wipe off any residue with clean water. Covers can tolerate 10,000ppm chlorine but using a weaker solution of 1,000 ppm will reduce the risk of a high concentrate being left on the surface.
- 2.4 The fabrics are able to be washed in warm soap water at up to 95°C.
- 2.5 All cleaning agents and disinfectants must be thoroughly rinsed off and the item dried before storage.

3. DRYING

- 3.1 Spin and tumble dry on a low setting (not more than 95°C. The fabric surface may wrinkle but this will not impede function). The operator ensures it is removed as soon as all moisture is removed. The fabric must not be left sitting on the heated bowl of the drier when drying is complete.
- 3.2 Do not mangle.
- 3.3 Do not iron.

4. STORAGE

- 4.1 Store in a cool dry area.
- 4.2 Avoid excessive pressure and always thoroughly dry fabric before re-use or storage. Do not fold away wet or store in damp conditions.
- 4.3 Keep away from sharp objects.

5. DAMAGES AND REPLACEMENT

- 5.1 Regularly check the inside of the cover for any signs of leakage
- 5.2 If the cover leaks then the waterproof barrier has been broken and a new cover should be purchased from OSKA™.

WASTE DISPOSAL

The materials used to manufacture the OSka Series3-V4 mattress do not cause any danger to the environment. They may be disposed of with the household waste.

The pump control unit is considered as electrical equipment waste. Please contact the proper waste disposal officials.



WARNING NOTICE

For private non-professional operators. In the case of system failure please check:

1. Is there sufficient power supply?
2. Is the unit turned on?
3. Is the power cord connected properly and is the power plug inserted correctly?
4. Is the mattress connection tube connected properly?

If all these primary checks have been carried out and the system continues not to function then you must contact the responsible supplier or user who is authorised to effect the maintenance and/or repair of this equipment.

Never attempt to repair the system yourself. Fuses may only be exchanged by qualified and authorised personnel.

SAFETY

In the interest of your safety please be informed that all OSKA products are certified in accordance to the following regulations:

- Testing for DIN EN 60601-1
- CPR - emergency valve
- ISO 13485

FOR YOUR SAFETY AND THE SAFETY OF THOSE AROUND YOU, PLEASE ADHERE TO ALL SAFETY AND WARNING INSTRUCTIONS AS DETAILED IN THIS MANUAL.

STANDARD PARTS LIST

Part Description	Part No.
1. Top cover	WO0019
2. Base Cover	WO0020
3. Cells (Individual)	WO0021
4. Pump Only (Complete)	WO0022
5. Mattress Only	WO0023
6. CPR Valve	WO0024
7. Inlet/Outlet Connector	WO0025

DELAMINATION:

Delamination is when the layers within the structure of the mattress cover separate. This can be caused by using incorrect chemicals or too high a concentrate of cleaning chemicals on the surface.

HOW TO PREVENT DELAMINATION:

OSKA™ Technology covers incorporate a special layering system to make them much more resistant to delamination than many other mattress covers. However, to help prevent delamination:

1. Always abide by the cleaning instructions
2. Avoid using chemicals with too high concentration.
3. Ensure cleaning chemicals are always thoroughly rinsed off before allowing to dry
4. The covers can tolerate up to 10,000ppm chlorine but using a weaker solution of 1,000ppm will reduce the risk of a high concentrate being left on the surface
5. Ensure the covers are thoroughly dry before using or storing the mattress

STRIKETHROUGH:

Strikethrough occurs when the fibres in the mattress covers start to break down. Small cracks develop, which on inspection, may not be visible. This means fluids and other contaminants can pass through the cover and contaminate the core of the mattress.

HOW TO PREVENT STRIKETHROUGH:

Covers are most susceptible to strikethrough damage when they are wet. During cleaning, extra care should be taken to avoid abrasion of the surface. OSKA™ covers incorporate a special

layering system to make them much more durable than many other mattress covers. However, to help prevent strikethrough:

1. Always abide by the cleaning instructions
2. Avoid using chemicals with too high concentration.
3. Ensure cleaning chemicals are always thoroughly rinsed off before allowing to dry
4. The covers can tolerate up to 10,000ppm chlorine but using a weaker solution of 1,000ppm will reduce the risk of a high concentrate being left on the surface
5. Ensure the covers are thoroughly dry before using or storing the mattress

GENERAL INFORMATION

STORAGE:

Store the mattress on a flat surface or carefully rolled/folded with the zip closed. Always store at room temperature in a dry area. Make sure the mattress is stored where it will not be exposed to thrusts, hits or other things that can damage it. Avoid direct exposure of sunlight. If the mattress is to be stored more than 3 months, we recommend it is stored on a flat surface (not folded or rolled up).

WARRANTY

The warranty is based on statutory regulations. The warranty does not apply if the goods supplied by OSKA™ are processed, handled or modified by other parties without prior consent from OSKA™ or if these operating instructions are not followed.

Your OSKA product comes with a 1 year parts and labour warranty.

For medical devices as understood by the EU - Directive 93/94, whose usage (also operations) is subject to regular service and maintenance, a warranty can be offered only if the service intervals prescribed by OSKA™ are adhered to.

If during inspection it is found that damages are due to wear and tear or are not subject to warranty, then OSKA™ are empowered to claim the expenses (inspection, transport costs etc) from the client. The use of parts or individual components of other systems or products or combinations thereof are not permissible.

Warranty claims become invalid should any damage result from this kind of conduct and therefore remain the responsibility of the user/owner.

TROUBLESHOOTING

Ensure that	Possible Solution	If your product is still not working
The main supply is plugged in. The switch is in the on position. The fuse in the plug is not blown.	Connect the appliance to the nearest mains socket and ensure that the power indicator light is on.	Contact OSKA Service.
The hoses are connected correctly.	Disconnect the hoses and re-connect them in to the outlet connectors on the side of the pump.	Contact OSKA Service.
The hoses are connected correctly.	Disconnect the hoses and re-connect them in to the outlet connectors on the side of the pump.	Contact OSKA Service.
There are no leaks in the mattress.	Contact OSKA Service.	Contact OSKA Service.
There are no kinks in the tubing down side of the mattress.	Carefully untwist any kinks.	Contact OSKA Service.
Check that the pressure has been set in the correct range for the patient's weight.	Adjust the pressure setting accordingly.	Contact OSKA Service.
There are no kinks in the tubing down side of the mattress.	Carefully untwist any kinks.	Contact OSKA Service.
The pump is not resting against a solid surface	Reposition the pump to a suitable surface	Contact OSKA Service.
The patient is bottoming out	Open covers and check cells and tubing. Check again through hand check (page 6)	Contact OSKA Service.

TECHNICAL SPECIFICATION PUMP

- OSKA - Series3-V4
- Power supply: 220-240V/50Hz, 1A
- Air output: 7 liter/min.
- Pressure range: 20-70 mmHg
- Cycle time: 10/15/20/25 min.
- Auto firm mode
- Alarm reset mode
- Alternate/Static mode
- Size: 28cm(L) x 20cm(W) x 10cm(H)
- Weight: 2.5 kg

MATTRESS

- Size: 200cm(L) x 88cm(W) x 20cm(H)
- Top cover - Dark Blue bi-elastic cover with PU/Polyester coating and zipper.
- Air cells: Nylon / PU
- (8" cell on cell construction with 5" upper layer alternating and 3" lower layer static)
- Base: Nylon / PVC
- 20 air cells
- CPR valve for emergency procedures
- Transport function
- Pillow function
- Quick connectors

SYSTEM MAINTENANCE

Maintenance at regular intervals (mandatory every 1 year) is necessary to preserve the function of the OSKA Series3-V4 alternating pressure system.

Used filters must be exchanged within this period.

Maintenance/inspection is carried out by the producer or an authorized firm or engineer at the client's expense.

If the maintenance is not performed within the first 1 year of the products life or not conducted by an authorised firm or engineer then the warranty claims become invalid. Damage or any other loss of functioning arising from the lack of maintenance or interferences by an unauthorised party will also invalidate the product's warranty.

Maintenance/inspection includes the following procedures:

1. Replace membrane unit
2. Replace air filter
3. Replace synchronous motor
4. Conduct function test/function check
5. Sealing of case and attaching an inspector sticker
6. Protective conductor check in accordance with DIN VDE 0751

THE 3c CONCEPT

We deliver specialist care products that enable healthcare professionals to make a difference. OSKA are continually developing pressure care products that meet the criteria of being clinically beneficial to patients, comfortable and affordable.

You know that every patients need is different, and so do we. That's why our 3c solution helps us to help you deliver the highest standard of care possible.



CLINICAL

- Outstanding performance
- Prevention is better than cure
- Focus on shear and pressure reduction



COMFORT

- Ideal for palliative and dementia care
- Holistic care
- Eliminate non-compliance



COST

- Reduce use of expensive air mattresses
- Reduce electricity, servicing and repair costs
- Reduce risk of litigation costs



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