

OSKA®

User Guide

Series3 Bariatric Mattress



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Please read the following instructions carefully and observe the warning instructions before using the system.






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Know your symbols

	Manufacturer		Do not iron
	Foot end		Tumble dry
	CE marked		Do not dry clean
	Catalogue number		Resistant to ignition
	Authorized EC Representative		Wipe down
	Machine wash at 95		Recycling
	Drip dry		UKCA marked
	<1% Chlorine		Medical Device



Important safeguards

When using electrical products, especially when children are present, basic safety present, basic safety precautions should always be followed, including the following:

Danger

To reduce the risk of electrocution:

- Always unplug this product immediately after use.
- Do not use while bathing.
- Do not place or store product where it can fall or be pulled into a tub or sink.
- Do not place in or drop into water or other liquids.
- Do not reach for a product that has fallen into water. Unplug immediately.

Warning

To reduce the risk of burns, electrocution, fire, or injury to persons:

- A product should never be left unattended when plugged in.
- Close supervision is necessary when this product is used by, on, or near children or invalids.
- Use this product only for its intended use as described in this manual.
- Do not use attachments not recommended by the manufacturer.

- Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the product to a service centre for examination and repair.
- Keep the cord away from heated surfaces.
- Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair, and the like.
- Never drop or insert any object into any opening or hose.
- Do not use outdoors or operate where aerosol (spray) products are being used.
- Connect this product to a properly grounded outlet only.

Grounding

Before any connection is made, make certain that this product shall be connected to a protective earth conductor via the three-wire power cord; the three-blade plug shall be inserted only into a socket outlet that provides a protective earth contact.

Statements

Note

Indicates some tips or some information users should be aware of.

Caution

Indicate correct operating or maintenance procedure in order to prevent damage to or destruction of the equipment or other property.

Introduction

This manual should be used for the initial set up of the system and for reference purposes.

General

The Series3 Bariatric Mattress is specially designed to provide both comfort and therapy for people who suffer from being overweight or medically obese. Patients at high risks of pressure ulcer are recommended to use Series3 Bariatric Mattress. This system is made with the highest quality material, which is durable and reliable for acute care, hospital, including ICU environment, nursing home and home care.

The Series3 Bariatric Mattress has been tested and certified for the following standards:

- CE
- UL

Intended Use

The Series3 Bariatric Mattress is intended to reduce the incidence of pressure ulcers while optimizing patient comfort. It also provides the following:

- Individual customized setting capability.
- Pain management as prescribed by a physician.

Contraindication

Patient conditions for which the application of pressure relieving therapy on an alternation system is contraindicated are as follows:

- Cervical or skeletal traction.
- Unstable spinal cord injuries.

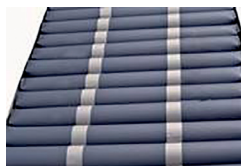
Package contents

Check inside the package. If any of the following items should be missing or damaged, please contact your local dealer or service centre for replacement immediately.

Pump Unit



Mattress



Manual

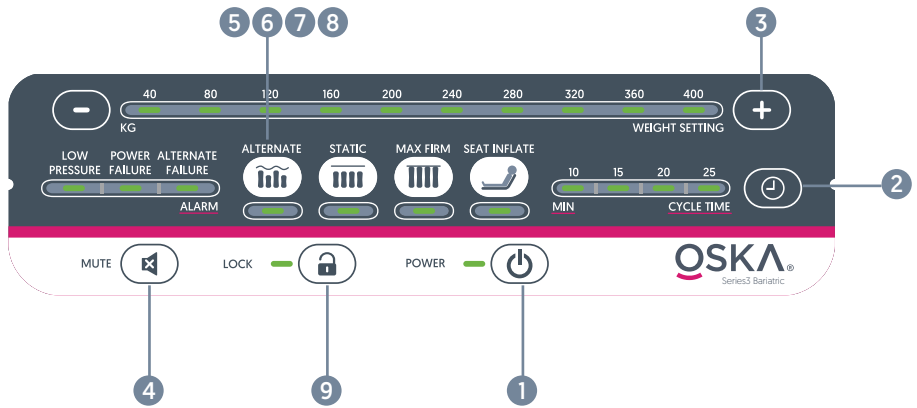
Always read this manual before using this product.



Product function

Pump Unit

The functions of the pump for Series3 Bariatric Mattress are described below.





Power Switch(1)

- The switch is at the right side of the pump.
- Turn ON/OFF the power and press Power button on the panel, the pump will start/stop operation.



Press Cycle Time(2)

- The cycle time can be selected from the panel.
- The cycle time value options are: 10, 15, 20, or 25 minutes.



Press Pressure Range(3)

- 20mmHg~65mmHg is offered from the panel, providing options of pressure value by easy press.



Alarm Mute(4)

- The audible/visible alarm turns on when low pressure, power failure or alternate failure.
- To mute the audible alarm, press the Alarm Mute button. The visible alarm indicator will flash until problem solved.
- If the fault persists, the audible alarm will automatically be reactivated in 10 minutes.
- Mute pause only applicable to pumps with serial number 538760000 or above. Otherwise, the mute button mutes alarm only & must be re-pressed to activate audible alarm.



Alternate mode(5)

- Press to set the air mattress in alternate therapy mode.



Static mode(6)

- Press to set the air mattress in static therapy mode. The function will revert back to alternating mode after 20 mins.



Max Firm(7)

- Press to set the air mattress in quick inflation mode, which facilitates nursing and caring.



Seat Inflate(8)

- Press to set the air mattress in seat inflate+alternate or seat inflate+static mode, pressure value will increase by 5mmHg, which facilitates seating.
- Under max firm mode, keep max pressure of 65mmHg, no more 5mmHg increased.



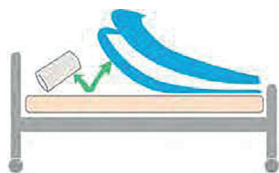
Lock button(9)

- Auto: it will automatically lock in 5 minutes without operation.
- Manual: press lock button for 3 seconds to lock the panel, press again for 3 seconds to unlock the panel.

System installation

The following describes the procedures for setting up the system for the first time.

- a) Remove all covers, sheets and mattress from the bed.



- b) On a standard bed, position Mattress Replacement on top of bed, printed top cover facing upwards and air hoses towards the base of the bed. Attach to the bed by securing the adjustable straps under each end of your bed. Ensure buckles are securely fastened and straps are pulled tight.



- c) **IMPORTANT:** On a profiling bed, secure the side straps around the moveable sections of the bed base. **DO NOT** secure to the side rails or main bed frame – irreparable damage could be caused to the bed and mattress

- d) Confirm there are no sharp objects in the immediate area which may risk damage to the Mattress Replacement.

Pump Unit Activation

- a) Position Control Unit by hanging hooks over foot board of the bed or place unit on the floor under the bed.



- b) Attach the air hoses through the use of the quick connector to the Control Unit. Ensure air hoses do not kink between mattress, bed frame and Pump Unit.



- c) Plug the power cord into an electrical outlet with grounded AC power:

NOTE: Before inserting the plug into the outlet, make sure the voltage is compatible. Also make sure this product is well grounded.

- d) Switch the power button on. Allow up to 40 minutes for full inflation.



- e) The 8 pressure indicate lights will flash until the mattress is inflated and ready for patient use. Once ready, the weight setting will show a constant light at the 40kg weight setting. Perform a "bottom out" test to ensure that patient is properly suspended. Slide your hand under the top cover along a deflated cell in the sacral (bottom) area. Secure sheets loosely enough to ensure they do not interfere with cell alternation.

Operation

NOTE: Always read the operating instructions before use.

General

This product is designed to provide maximum comfort to patients. Make sure that you operate this product in a proper way optimizing its value. Here we provide some general information that you should be aware of.

For products:

- DO NOT use another pump with different specifications unless instructed to do so by OSKA Care
- DO NOT change any component by yourself. If there is need for replacement or repair, always contact OSKA Care

For patients:

When the pressure has been adjusted to a desired level of firmness, the patient can then lie on the mattress.

A firm surface will make it easier for the patient to transfer or reposition. Make use of the static mode function for this feature. To sit a patient up in bed, press the Seat Button to increase the pressure to have better support on sacrum area.

Hand check:

Check if the pressure is properly adjusted by sliding one hand between the air mattress and bed frame to feel the patient's buttock.

Users should be able to feel the space in between, and the acceptable range is approximately 25 to 40 mm (1" to 1-1/2").



NOTE: Please follow instructions below for detailed operating procedure of each type.

Step 1 Turn on the power:A beep sound will begin the operation.

Step 2 The pump will enter into static mode when the power is initially turned on.

First it will inflate the mattress to 10-15mmHg and then enter alternate mode.

If 10-15mmHg can not be reached within 30 minutes, the unit will stay in static mode and keep inflating. If 10-15mmHg still can not be reached within 40 minutes, the alarm will beep and its LED will come on.

Press the Alarm Mute button to mute the alarm.The alarm LED will continue flashing.

If the fault persists, the audible alarm will automatically be reactivated in 10 minutes.

Step 3 The alternating cycle time and pressure level are set at 10 minutes and 30mmHg initially. Select from the touch panel to adjust the cycle time and pressure level to the patients specific requirements.

NOTE: Press the static mode button from the touch panel to provide a firm surface that makes it easier for the patient to transfer or reposition.The static mode can support the patient by keeping the mattress from bottoming out when the patient is in a sitting position.The static mode will revert back to alternating mode after 20 mins.

Step 4 During normal operation, the unit will monitor pressure. If the mattress pressure is lower than the set pressure, the pump will automatically inflate the mattress to the set level and then stop.The alarm will beep and its LED will come on to alert a low pressure condition.

Press the Alarm Mute button to mute the alarm.The alarm LED will continue flashing.

If the fault persists, the audible alarm will automatically be reactivated in 10 minutes.

Step 5 Press the Max Firm button to automatically inflate the mattress to the maximum level (65mmHg) for about 20 minutes.The pressure will return to a previously set level after 20 minutes.

In case there is a bad connection of tubing or any air leakage from the mattress, this will result in a low pressure condition, and it will activate the alarm within 1 min.

NOTE: For suitable pressure, please refer to page 8 for the hand check procedure.

CPR function

When there is an emergency requirement to perform CPR on the patient, press the CPR button at the head section of the mattress and disconnect the air hose from the pump to release the air quickly from the mattress.

Pressure set up

Users can adjust the pressure level of the air mattress to a desired firmness by themselves or according to the suggestion from a health care professional.

NOTE: It is recommended to press Max Firm on the panel when the mattress is first inflated. Users can then easily adjust the air mattress to a desired firmness according to the patient's weight and comfort.

Low pressure warning

When abnormal pressure occurs, the Low Pressure indicator will come on. For some types of pumps, the alarm will be activated to alert of a low pressure condition. Check if the connections are secure and correctly installed according to the relevant instructions.

NOTE: If the pressure is consistently low, open the zipper and confirm that all of the hoses are properly connected. Then check for any noticeable leakage in any of the tubes. If necessary, contact your local dealer to replace any damaged tubes or hoses.

Cleaning

In this section, we describe the procedures to clean and decontaminate the pump. It is important to follow these procedures before using the system again.

The cleaning task is required at least once a week to maintain personal hygiene.

Pump Unit

- DO NOT immerse or soak the pump in any water or fluids.
- Check for external damage and move the pump to the cleaning area.
- Place the pump on a work surface and spray or wipe the outside of the case with quaternary ammonium solution.
- DO NOT spray any cleaning solution directly on the surface of the pump.
- DO NOT use a Hypocarbonate or Phenolic based cleaning solution as this may cause damage to the case. Allow the solution to incubate for 10 minutes or accordingly as stated by the cleaning product instructions.
- Wipe case with a clean cloth. Make sure all areas are clean (top and bottom, both sides).
- Spray cloth with cleaning solution and clean faceplate. DO NOT allow excess cleaning solution on faceplate or control panel. (If solution gets inside, damage will occur.) Allow surface to thoroughly dry after cleaning.
- After the pump is thoroughly cleaned and dried, proceed to plug in the pump and test to see if it runs normally.
- Unplug the pump and store with proper identification tag.
- Avoid long exposure to sunlight.

Mattress

- Brush off or wipe down all surfaces of the cover sheet with soap and water before wetting with any liquid disinfectant.
- Any obvious blood spots should be wet thoroughly with 1:9 Hypochlorite solution (1 part bleach to 9 parts water) and allow drying for at least 10 minutes. Then blot with a clean, damp cloth.
- Unzip the top cover from the mattress.
- Brush or wipe down all surfaces with soap and water before applying any liquid.
- Covers are immersed and soaked in disinfectant for the required incubation time.
- After pre-soaking, the cover is rinsed through a regular cycle in a washer with no soap then laundered with mild detergent (wash temperature 93°F/34°C, rinse temperature 78°F/26°C or on the coldest setting).
- Covers are aerated until they are fully dry. (Drying temperature range 90-120°F/32-49°C or on the coldest setting.)
- The air cells are unsnapped from one side and are sprayed on all sides with a disinfectant. Let it sit for the required incubation time and wipe down with a clean cloth. (Make sure to disconnect all the air cells, one by one, and spray the disinfectant on all sides, including all the connecting tubes and hoses. Let it sit for least 10 minutes.)
- If there is a base after you remove all the air cells, the base has to be sprayed down with the disinfectant, inside and outside. Let it sit for the required incubation time and wipe down with a cloth.
- Repeat the process with the tubing set: spray, incubate, and then wipe clean.
- The carrying bag should be turned inside out and completely wiped down using the disinfectant solution. Allow it to thoroughly air dry. Once the inside is dry, turn it back; wipe down the outside of the bag with disinfectant.
- Dry the mattress on a flat surface area after cleaning, away from exposure to the sun.
- Avoid long exposure to sunlight.

Handling and storage

- Lay the mattress out flat and upside down.
- Roll from the foot end towards the head end; the foot-end strap can then be stretched around the rolled mattress to prevent unrolling.
- Do not fold, crease or stack the mattress.

Maintenance

General

- Check the power cord and plug to see if there are abrasions or excessive wear.
- Check the mattress cover for signs of wear or damage. Ensure the mattress cover and tubes are connected together correctly.
- Plug in the pump unit and check the airflow from the hose connection port. The airflow should alternate between ports every half-cycle time.
- Check the air hoses to see if there are any kinks or breaks. For replacement, please contact your local agent or dealer.
- Make sure the mattress tube is well connected.
- Check the pump unit and make sure both power indicators are off when the switch is turned off.

Low pressure

Examine if there is any air leakage between the pump and the mattress connections or from the air mattress tubes:

- Check connectors between the air mattress and pump. If there is any disconnection, please reconnect it.
- Check the CPR Valves. Ensure their outlets are sealed.
- Check the air-connecting tubes. Ensure each single cell is not broken.
- Set the pressure at Max firm. Keep the tubes fully inflated and inspect for air leakage.
- Check if there is any air leakage from cells. Ensure no leakage occurs. If any leakage occurs, please contact your local agent or dealer.

Troubleshooting guide

Problems	Reasons	Maintenance
<p>Mattress fail to inflate or do not inflate completely.</p>	<p>Pump issue</p>	<ol style="list-style-type: none"> 1. Pump does not work. <ol style="list-style-type: none"> 1. After powered on, check if visible LED light turns on. If not, please check the below issues: <ol style="list-style-type: none"> 1.1 Check if power cord is plugged into appropriate voltage AC outlet. 1.2 Check if fuse is loose or burned out, make sure it's connected well or replace with new one. 1.3 Open the pump and see if wires inside are connected well, make sure they are not loose. 1.4 Change lower PCB.
	<ol style="list-style-type: none"> 2. Air pressure from pump is too low. 	<ol style="list-style-type: none"> 1. Check if air pressure and air flow (100mmHg, 8.0L) are high enough from the compressor; if not then replace with new compressor. 2. Check if there is air leakage from the exchanger; if yes then replace with new exchanger. 3. Check if silicone tube inside the pump is connected well.
	<p>Mattress issue</p>	<ol style="list-style-type: none"> 1. Quick connector on mattress does not connect well with pump. 2. Air tube connected to T/L connector and air valve is loose, CPR connector is not capped. 3. One way valve is broken. 4. Air cell is leaking. <ol style="list-style-type: none"> 1. Make sure quick connector on mattress is connected well with pump. 2. Make sure T/L connector and air valve is connected well, CPR connector is capped well. 3. Change one way valve. 4. Change air cell.

Troubleshooting guide continued

Problems	Reasons	Maintenance
Mattress has pillow function, but air cell fail to inflate.	<ol style="list-style-type: none"> 1. One way valve is assembled reversely. 	<ol style="list-style-type: none"> 1. Assemble the one way valve in correct direction.
Pump is working but synchronous motor does not work; thus mattress does not alternate, and alternate failure alarm is activated.	<ol style="list-style-type: none"> 1. Synchronous motor is out of order. 2. Wires inside synchronous motor not connect well. 3. Lower PCB is out of order. 	<ol style="list-style-type: none"> 1. Change synchronous motor 2. Make sure wires are connected well. 3. Change the lower PCB.
Pump and motor keep working, but cycle time is incorrect. The alternate failure alarm is activated.	<ol style="list-style-type: none"> 1. Micro switch on the exchanger is out of order. 2. Lower PCB is out of order. 	<ol style="list-style-type: none"> 1. Change the micro switch. 2. Change the lower PCB.
When powered on, compressor stop after working some time; but the exchanger keep rotary.	<ol style="list-style-type: none"> 1. Pressure detector is out of order. 	<ol style="list-style-type: none"> 1. Change the lower PCB.
Mattress pressure is low but alarm is not activated.	<ol style="list-style-type: none"> 1. Pressure detector is out of order. 	<ol style="list-style-type: none"> 1. Change the lower PCB.
Push button on panel is not operated well, and LED indicator does not light up.	<ol style="list-style-type: none"> 1. Push button is not operated well. 2. LED is out of order. 	<ol style="list-style-type: none"> 1. Change the upper PCB.
Mattress pressure is too high or too low.	<ol style="list-style-type: none"> 1. Pressure sensor is out of order. 	<ol style="list-style-type: none"> 1. Change the lower PCB.
Power failure alarm can't be activated after power failure.	<ol style="list-style-type: none"> 1. Battery is out of order. 	<ol style="list-style-type: none"> 1. Change the lower PCB.

Specifications

Technical Specifications

Pump	Mattress
Item: Series3 Bariatric Auto Pump	Item: Series3 Bariatric Mattress
Power supply: 220V/50Hz, 1A	Size: 203cm(L) × 120cm(W) × 26cm(H)
Air output: 12 litre/min.	Top cover: Bi-elastic cover with zipper
Pressure range: 20 mmHg – 65 mmHg	Air cells: Nylon/TPU Cell-on-Cell
Cycle time: 10/15/20/25 min.	Base: Durable Nylon / PVC 840D
Case Material: Flame Retardant ABS	20 air cells
Max firm mode	Button CPR valve for emergency procedures
Alarm: Low pressure/Power failure/ Alternate failure	Pillow function
Alternate/Static/Seat inflate mode	Quick connectors
Size: 34cm(L) × 12.5cm(W) × 24.4cm(H)	Maximum Weight Capacity: 400 kg
Weight: 3.5 kg	Quick release air cell valves

Note:

The above specifications are also applicable to those areas operating with the same power supply range.

Warranty: 1 year for pump and mattress



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