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User Manual

Eton 5" King Single Overlay

Product Code: SMAO6KS

Congratulations and thank you for choosing Safety and Mobility - Australia's most trusted healthcare supplier. All Safety and Mobility products are manufactured to the highest standards of performance and safety.

It is important that you read this user manual carefully before using this product and it be kept in a safe place for future reference.

Due care has been taken to ensure all information contained within this user manual is correct at the time of printing. We reserve the right to modify the design or appearance of any product displayed in this user manual without prior notice.



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1. INTRODUCTION

The Eton 5" King Single Overlay is an auto-adjusting alternating mattress overlay, designed to help prevent and manage pressure injuries by promoting healthy blood circulation. The overlay features a series of air cells that inflate and deflate in cycles, redistributing pressure across the body. Powered by a quiet, auto-setting and adjustable pump, it provides alternating pressure support and comfort for users at risk of pressure sores - making it ideal for use in hospitals, aged care facilities, and home care settings.

The Eton should only ever be used under the instruction of a suitably qualified carer, clinician or healthcare professional.

2. SAFETY PRECAUTIONS

Before using this product, always consult a qualified carer, clinician, or healthcare professional to ensure it is suitable for each individual user. The precautions provided in this manual are intended as basic guidelines only. Failure to follow these precautions may result in injury to yourself, others or damage to the product and surrounding property.

The following symbols are used throughout this manual to identify warnings and important information. It is important you read and understand them completely.



WARNING indicates a potentially hazardous situation or unsafe practice that, if not avoided, could result in death or serious injury.



DO NOT indicates actions that must not be performed. Ignoring these instructions may lead to product or property damage, compromised safety or injury.



INFORMATION provides guidance or helpful tips to ensure correct and effective use of the product.



WARNINGS



1. Only authorised and qualified technical personnel should remove the back cover of the pump for maintenance. Attempting to open or service the unit by unqualified personnel will void the warranty and may result in damage, malfunction or risk of electric shock.
2. Keep the overlay and pump away from sharp objects to prevent punctures or damage to the air cells and electrical components.
3. Do not use this overlay as a means of lifting or transferring users. It is designed solely for pressure care support.
4. Keep all liquids away from the pump unit, power plugs, and electrical components. Exposure to liquids may cause electrical shock, short circuits, or equipment failure.
5. Do not expose the overlay or pump to high heat, open flames, or extreme temperatures. Doing so may cause damage or increase the risk of fire.
6. Always disconnect the power supply from the socket before performing any cleaning, inspection, or maintenance to prevent electrical shock.
7. Ensure the power cord is positioned safely to prevent tripping hazards, accidental disconnection or being caught in the bed mechanism.
8. Regularly inspect the power cord and plug for signs of damage. Do not use the product if the power cord or plug is frayed, cracked, or otherwise damaged.
9. The pump and overlay must not be modified, tampered with, or repaired by any individual other than appropriately qualified and authorised personnel.
10. Ensure the pump is upright on a stable surface at the foot-end of the bed with adequate ventilation and airflow.
11. If components are damaged or missing, contact Safety and Mobility or authorised distributor immediately. Do not use substitute parts; use only genuine Safety and Mobility replacements. Use of non-approved parts may cause injury or damage and will void the warranty.



3. PRODUCT OVERVIEW



Overlay

The Eton overlay features a removable multi-way stretch cover and contains 17 individual air cells within its structure; 3 static head cells; 14 alternating cells of which 5 are ventilated.

- Static head cells do not alternate and remain constantly inflated to provide stable head support.
- Alternating cells where each alternate cell inflates and deflates in an 'A/B' cycle to redistribute pressure and improve blood flow.
- Alternating ventilated cells designed with microscopic holes to promote gentle airflow, helping to minimise heat and moisture build-up.

Pump

The Eton pump is a compact, easy-to-use unit that powers the overlay. Designed for simple, reliable operation in clinical and home care settings, it features:

- Automatic weight and pressure adjustment for personalised support.
- Multiple comfort and cycle settings for user comfort.
- Intuitive control panel with indicator lights.
- Built-in alarms for Low Pressure and/or Power Failure.



4. ASSEMBLY & SETUP



Ensure the CPR valve is closed and sealed prior to assembly, setup and use.



Do not lie on the overlay until the *Ready light* is solid green.

1. Place the overlay on top of the existing mattress with the foot-end containing the air hose placed at the foot-end of the bed. Ensure the overlay is centred and lays flat on the mattress.
2. Use the securing flaps and straps to fasten the overlay firmly to the underside of the mattress.



Check that the overlay is stable and does not move excessively prior to use. Take care to ensure that moving components of the bed are not restricted.



Ensure that the combined height of the mattress and overlay do not render any fall prevention equipment ineffective.

3. Unfold the hooks at the back of the pump and hang the pump on the outside of the footboard or bed frame. Alternatively, place the pump in an upright position on a flat and stable surface. Ensure the pump has adequate ventilation and airflow.
4. Connect the push fit air hose connectors from the overlay hose to the corresponding connectors on the pump unit. Push the hoses firmly into place until fully secured and ensure there are no kinks or twists in the air hoses.
5. Connect the power cord into a suitable power wall socket.



Ensure the power cord is safely routed along the floor and bed to prevent hazards, accidental disconnection or caught in the bed mechanism.

6. Press the *On/Off* button on the control panel to turn on the pump. The pump will automatically enter *Auto Adjust* mode and the two adjacent indicator lights will alternately flash green while the overlay inflates. Once fully inflated, the *Ready Light* will turn solid green, an audible beep will sound and the control panel will lock.



Do not lay on the overlay until the *Ready Light* is solid green.

7. Once the *Ready Light* is solid green the system is fully pressurised and ready for the user to lie on the overlay and begin the *Auto Adjust* process – **see step 8.**



8. Once the user is positioned on the overlay, press and hold the **Panel Lock/Unlock** button for 3 seconds until the **Panel Lock/Unlock** light turns off. Once the panel is unlocked, press the **Auto Adjust** button to begin automatic pressure adjustment for the user's weight. The two adjacent indicator lights will alternately flash green while the overlay **Auto Adjusts**. The **Ready Light** will turn solid green to indicate completion of pressure adjustment for the user's weight.

9. See Control Panel Operations for further instructions on panel lock/unlock and making adjustments to cycle time, comfort level and modes.



5. OPERATION



Press and hold the *Panel Lock/Unlock* button for 3 seconds to unlock the control panel to allow changes to the pump settings. The panel will automatically relock after 5 minutes. A solid orange light indicates the panel is locked.

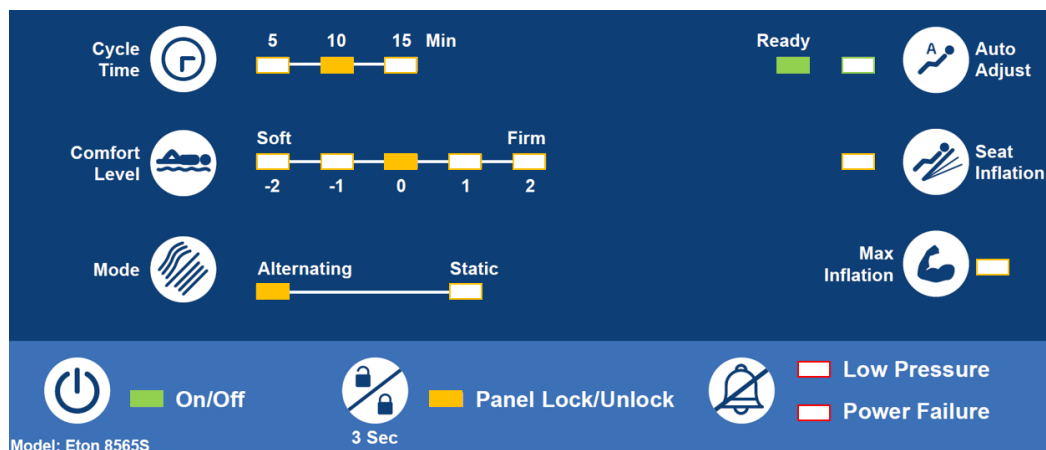


The top three head cells are static and do not alternate. They remain fully inflated to provide consistent head support and user comfort.



The overlay includes a CPR release valve as a safety feature designed to rapidly deflate the overlay in emergency situations where CPR is required.

CONTROL PANEL



Cycle Time

Press the *Cycle Time* button to adjust how frequently the air cells alternate from three preset intervals (5, 10 or 15 minutes) to suit individual comfort or clinical needs - a shorter cycle time offers more frequent pressure redistribution. A solid orange light will indicate the selected cycle time.



Comfort Level

Press the *Comfort Level* button to adjust the overlay firmness on a 5-tier scale from -2 (soft) to 2 (firm) with 0 as default - adjusting the level changes the cell pressure. A solid orange light will indicate the selected comfort level.





Mode

Press the *Mode* button to switch between Alternating and Static modes. Alternating mode is the default and a solid orange light will indicate the selected mode. The top three head cells remain constantly inflated and never alternate.

- Alternating Mode – Alternate air cells inflate and deflate in 'A/B' cycles to redistribute pressure.
- Static Mode – All air cells remain constantly inflated.



Power On/Off

Press the *On/Off* button to turn on the pump – a solid green light will indicate the pump is on and the *Auto Adjust* mode will begin to inflate the overlay. Press again to turn the pump off.



Panel Lock/Unlock

Press and hold the *Panel Lock/Unlock* button for 3 seconds to unlock the panel to allow changes to the pump settings. The panel automatically locks after 5 minutes to prevent accidental changes. A solid orange light will indicate the panel is locked.



Auto Adjust

The pump will automatically begin inflating the overlay in Auto Adjust mode when turned on - the two adjacent indicator lights will alternately flash green whilst inflating and will turn solid green once fully inflated.

Once the user is positioned on the overlay, press the Auto Adjust button to begin automatic pressure adjustment for the user's weight. The two adjacent indicator lights will alternately flash green while the overlay Auto Adjusts and will turn solid green once adjusted for the user's weight.



Seat Inflation

Press the *Seat Inflation* button to increase the air cell pressure when the user is in a seated or semi-upright position.





Max Inflation

Press the *Max inflation* button to fully inflate the air cell pressure to maximum to provide a firm surface for user repositioning, transfers or nursing care.



Do not use the overlay as a means of lifting or transferring the user.



Low Pressure and Power Failure

Press the button to mute the audible alarm as shown by the Low Pressure or Power Failure lights.

The *Low Pressure* alarm/light indicates the overlay is not maintaining sufficient air pressure. This may be due to a leak, loose connection or obstruction in the air hose.

The *Power Failure* alarm/light indicates the pump has lost electrical power. This may occur due to the power cord being unplugged, a blown fuse or a power outage



Refer to troubleshooting guide for further information.



Do not use the overlay until the issue is resolved and the *Low Pressure* or *Power Failure* light is off.



CPR VALVE

The CPR valve is used to rapidly deflate all cells to create a flat and firm surface for CPR in a medical emergency. The CPR valve is located on the **external left-side of the overlay towards the head end**. To operate:

1. Pull firmly the yellow CPR tag away from the overlay to allow air to escape. Ensure the dual nozzles are completely uncovered.
2. Disconnect the overlay hoses from the pump – note this will result in a *Low Pressure* audible alarm which can be muted.
3. After CPR use, and during set up and routine checks, ensure the dual nozzles are fully closed and sealed.



An unsealed CPR valve will prevent the overlay from fully inflating and will result in low pressure.



CPR valve located on external left side of the overlay towards the head end.



Pull firmly the yellow CPR tag away from the overlay.



Align clear caps over the red plastic nozzle and firmly press closed.



Ensure the clear caps are pushed completely over the red plastic nozzles until it touches the base.



TRANSPORT MODE

Transport mode allows the overlay to be temporarily disconnected from the pump for short durations. To activate transport mode, disconnect the two air hoses from the pump and connect them to one another – gradual deflation will occur whilst in transport mode and is intended for limited durations. The pump will indicate a Low Pressure alarm once disconnected.



If the overlay, excluding the head cells, has visibly deflated then remove the user and repeat the original set up process. Always reconnect the pump as soon as possible to resume active pressure care.



Air hoses removed from pump and connected to each other for transport mode.

Transport mode is especially useful when the user's bed needs to be moved away from a power source for cleaning, relocation or short periods without access to power.



6. CLEANING

To ensure safe and hygienic use, the overlay and pump should be cleaned regularly, especially between users. Ensure any cleaning is in accordance with the facility's infection control and cleaning policies.



Do not use phenol, abrasive or caustic cleaning products.



The pump must be disconnected from power before cleaning.



Do not immerse or soak the pump or power cord. Do not allow liquids to enter any openings.

Pump

- Wipe the exterior with hospital-grade disinfectant wipes.
- Dry thoroughly before reconnecting to power.
- Ensure the pump is kept free of dust, debris and liquid.

Overlay Cover

- For small spills or stains, wipe down with hospital-grade disinfectant wipes or a clean damp cloth soaked with mild detergent.
- For large spills or stains, or when heavily soiled, the overlay cover can be machine washed by following the below instructions:
 1. Unzip the overlay cover and remove from the base and air cells.
 2. Prewash the cover in a cold wash for 10 minutes.
 3. Wash the cover up to 65°C for 10 minutes. If the stain remains, wash again for a further 4 minutes up to 80°C.
 4. Cold rinse the cover.
 5. Spin dry for 5 minutes.
 6. Hang and air-dry away from direct sunlight.



Do not dry the overlay cover in direct sunlight.



Do not dry clean, iron or bleach.



Ensure the cover is completely dry before reattaching to the base.



7. MAINTENANCE AND STORAGE

It is recommended to conduct routine maintenance checks (particularly between users) and ensure proper storage to maintain the overlay's reliability and extend its service life.

General Maintenance

- Conduct regular visual inspections for cracks, punctures or general wear and damage.
- Ensure all tubing, plugs and connectors are secure and free from leaks.
- Confirm the pump powers on, cycles correctly and is free from errors or alarms.
- Ensure the CPR valve is fully sealed and free from leaks.

Fuse



The pump must be disconnected from power before accessing the fuse.



The fuse must only be replaced by appropriately qualified and authorised personnel.



Use only replacement fuses supplied by Safety and Mobility an authorised distributors.

- Unscrew the fuse cover on the left panel adjacent to the hose connectors.
- Remove the fuse and reinsert the new fuse.
- Replace and screw the cover closed.

Air Filter

- Remove the clip cover on the rear of the pump to access the air filter.
- The filter can be cleaned by gently washing with a mild detergent and warm water. Air dry the filter and ensure it is completely dry before reinstalling it into the pump.



Storage

- Follow cleaning instructions to ensure the pump and overlay are clean and dry prior to storage.
- Release all air by disconnecting the hose from the pump and opening the CPR valve.
- Roll the overlay from the head-end to the foot-end.
- Place the overlay and pump into the provided bag for storage.
- Store in a cool and dry place away from direct sunlight, moisture and extreme temperatures.



Do not place any heavy items on top of the overlay whilst in storage.



8. TROUBLESHOOTING GUIDE

Problem	Solution
Overlay is not inflating	• Check that the pump is plugged in and switched on. • Ensure air hose connectors are securely attached. • Verify CPR valve is fully sealed.
Low Pressure light	• Inspect air hose and connectors for leaks or kinks. • Ensure CPR valve is fully sealed. • Check for damage to air cells and tubes.
Pump is not turning on or Power Failure.	• Check that the pump is plugged in and switched on. • Try a different power wall socket. • Check whether the pump fuse has blown and replace if blown.
Panel buttons are unresponsive	• Check whether the panel is locked. • Press and hold Panel Lock/Unlock button for 3 seconds. • If still unresponsive, turn the pump off and unplug from power for several minutes before reconnecting and turning on.
Overlay is too soft or too firm	• Ensure the overlay is fully inflated indicated by the solid green <i>Ready</i> light. • Adjust the comfort level softer or firmer. • Ensure the overlay is in the correct mode (alternating/static) • Check whether <i>Seat Inflation</i> or <i>Max Inflation</i> modes are temporarily activated.
No airflow or alternating cycle not working	• Ensure pump is plugged in, switched on and working. • Confirm system is in <i>Alternating Mode</i> • Confirm whether <i>Max Inflation</i> is temporarily activated.
User feels unstable or sagging	• Ensure the overlay is fully inflated indicated by the solid green <i>Ready</i> light. • Change the <i>Comfort Level</i>. • Ensure user is positioned correctly with their head on the static head cells. • Check for leaks in the hose, air cells and tubing.

If any problems persist contact Safety and Mobility or authorised distributor immediately.



9. WARRANTY AND LIABILITY

Warranty

1. Notwithstanding anything herein Safety and Mobility warrants that the Goods and Services provided by Safety and Mobility are free from defective design, materials, and workmanship and are fit for the purpose they are intended for a period from the date of Safety and Mobility's original invoice:
 - i. 12 months in the case of Goods unless otherwise stated; and
 - ii. 3 months in the case of Services i.e. spare parts and labour.
2. Acceptance of a warranty claim and decision to repair or replace the damaged or defective Goods or Services is at the sole discretion of Safety and Mobility.
3. When making a claim, the Customer must provide to Safety and Mobility;
 - i. Safety and Mobility's original invoice;
 - ii. a description of the problem or defect including where able photos or evidence of the problem or defect;
 - iii. the damaged or defective Goods, returned at the Customer's cost.
Where a claim is accepted, Safety and Mobility will repair or replace the defective Goods and return the goods to the Customer by economy freight at Safety and Mobility's expense.
4. In the case of Services, Safety and Mobility will provide the equivalent Service again or pay for an equivalent Service to the same cost provided to the customer by a third party nominated by Safety and Mobility.
5. Warranties given exclude claims for or damage resulting from: fair wear and tear, misuse including incorrect or unapproved accessories or consumables, wilful damage, use beyond specification or design, unauthorised alterations, additions or tampering of the Goods, events beyond the control of Safety and Mobility.

Liability of Safety and Mobility

1. Safety and Mobility will not be liable for any indirect, incidental or consequential damages or loss including but not limited to loss of income, loss of use, loss of property, loss of business profits howsoever arising and whether caused by tort (including negligence) breach of contract or otherwise.
2. To the extent permitted by law, Safety and Mobility will not be liable for any damage or injury caused by the misuse of products purchased from Safety and Mobility.



3. To the extent Safety and Mobility may be liable for a breach of a condition of the Competition and Consumer Act 2010 Safety and Mobility's sole liability for breach of any such condition, warranty or other obligation, shall be limited to:-
 - i. the replacement of the Goods or Services; or
 - ii. the supply of equivalent goods or services; or
 - iii. payment of the cost of replacing the Goods or Services or acquiring equivalent goods; or
 - iv. the repair of the Goods or payment of the cost of having the Goods repaired, at Safety and Mobility's discretion.
4. Safety and Mobility will not be liable for any delay in performing any of its obligations under these terms and conditions if such delay arises as a consequence of fire, embargo, strike, inability to secure materials or labour, or any other circumstances beyond the control of Safety and Mobility.



10. TECHNICAL FEATURES

Pump

Model Number	Eton PL-8565S
Dimensions	240 x 260 x 140 mm (approx.)
Weight	2.6 kg
Auto Firm Time	~20 minutes
Power Supply	AC 230V 50Hz
Power	8.5W
Fuse	500mA 250V
Pressure	20-50mmHg
Cycle Time	5/10/15 minutes
Operating Environment	Temperature: 10°C - 40°C Humidity: 10%-90% relative humidity (no condensation)
Storage Environment	Temperature: -15°C - 50°C Humidity: 10%-90% relative humidity (no condensation)
Environment Pressure	Operation: 700-1013, 25 hPa
Sound	30dB

Overlay

Dimensions	1980 x 1050 x 130 mm (approx.)
Safe Working Load	195 kg
Cell Material	TPU
No. of Air Cells	17 cells including 3 static head cells and 5 ventilated cells.
Cover Material	Multi way stretch PU
Bottom Material	Woven Oxford cloth with coating



CE EN60601-2,2007
IEC60601-1:2006
PL-8565S Digital Control Pump
Specification: 230V 50Hz 8.5W□
Fuse : 500mA 250V

Maximum user Weight 195kg



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