

ACTIVE AIR® 8

USER MANUAL

ALTERNATING MATTRESS REPLACEMENTS INCLUDE:

- Single (PTM639300)
- King Single (PTM639310)



Thank you for choosing this Aspire Active Air 8 Alternating Mattress Replacement.

This mattress replacement has been specifically designed to offer safety, comfort and support.

It is important that you read this user manual carefully before using your new mattress replacement.

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SYMBOLS USED IN THIS MANUAL

The symbols below are used throughout this user manual and on the product to identify warnings and important information. It is very important for you to read them and understand them completely.



WARNING! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage or malfunction. On the product, this icon is represented as a black symbol on a white triangle with a black border.



ALWAYS! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white infinity symbol on a black dot with a white border.



DO NOT! These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol with a black circle and black slash.



Range is 30-200kg

PATIENT WEIGHT RANGE. This represents the range within which the mattress overlay provides effective pressure redistribution outcomes. Patient weight should NOT fall outside this range at any time as this may void warranty and/or produce ineffective patient support outcomes.

1. INTRODUCTION

The Aspire Active Air 8 is an electrically operated Alternating Mattress Replacement offering a suite of features for a patient at high risk of pressure injury. Ease of use, functionality, serviceability and cleaning practicality are key features of dynamic mattress replacement system.

Clinical Applications and Area of Use

This Alternating Mattress Replacement is appropriate for adult patient care and should only be used under the instruction of a carer or health professional where concerns exist around patient safe use.

Intended Use

This product is intended to help and reduce the incidence of pressure ulcers while optimising patient comfort. This product may be used in a variety of environments included, but not limited to in home care, aged care and hospital.

Product Description

This product is an Alternating Mattress Replacement System used in the prevention and relief for patients with, or vulnerable to, pressure ulcers. This product offers patients a comfortable and relaxing support surface by using the established principles of alternating therapy, which can both prevent skin breakdown and enhance healing.

The mattress pump features a digital pressure adjustment function, mode selections and audiovisual alarms.

The mattress features a multi-stretch PU coated fabric cover (with high MVTR) along with 17 x alternating air cells, 3 x static head cells and a rapid release twist CPR Valve for use in the event of a CPR emergency.

Key Features

- Patient weight range of this mattress replacement is 30-200kg, this should not be exceeded at any time
- AutoLock The control panel automatically locks if not touched for 30 seconds preventing accidental changes to modes and settings
- AutoProtect When the head of the bed is raised to 45° or more, air pressure automatically increases to prevent bottoming out
- AutoDetect Based on the patients weight and size, appropriate pressure output is automatically set, ensuring optimal care and protection
- 24 Hour Transport In the event of a power failure, patients can remain on the inflated surface for upto 24 hours



- Easy-to-read LCD Clear LCD screen provides clear and concise information on cycle time selections, as well as operating mode and fault conditions
- Multi-stretch, Vapour Permeable Cover Easy to clean cover is multi-stretch and breathable, reducing friction and shear whilst optimising skin microclimate
- Welded Seams & Zip Protection Prevents fluid and bacterial ingress into the system, facilitating stringent infection control measures
- Rapid Release CPR Allows quick deflation for cardio-pulmonary resuscitation in emergency situations
- Audible & Visual Alarms Staff are immediately alerted if a problem occurs, maximising peace of mind and reducing patient risk
- Low Noise Pump Digital control unit features innovative pump technology to reduce vibration and facilitate improved patient sleep quality
- Variable Cycle Times A choice of 10, 15, 20, 25 or 30 minute cycles to meet the needs and comfort requirements for a wide range of patients
- Simple Cell Connections O-ring connections make maintenance hassle and tool free
- Hassle Free Pump Maintenance Modular pump design ensures pumps can be fixed and returned to service quickly with minimal downtime
- Power Cord Protection L shaped connection coupled with the protector function, significantly reduce the risk of the power cord becoming loose and getting damaged
- Cable Management Cords are retained within the replacement so the risk of tripping and cord pinching is eliminated
- If placed in static mode, after 20 minutes the system will fall back to alternating mode ensuring maximum patient protection and pressure management
- Cell retention band prevents the inadvertent movement or seperation of the cells that could lead to friction and shear

2. SAFETY PRECAUTIONS

This user manual outlines the intended use of the Aspire Active Air 8 Alternating Mattress Replacement, the intended use constitutes how to achieve maximum comfort whilst maximising safety and efficiency for care staff and patients alike.

It is **IMPORTANT** that this user manual is read in its entirety prior to operating the Replacement. The manual is designed to ensure that patients are equipped with the information required to competently and responsibly operate the replacement and pump.

It is recommended that the user manual be kept in an easily accessible place for quick reference. If required, Aidacare product specialists can provide additional training.

All **WARNINGS** and **CAUTIONS** within this manual should be strictly adhered to. Failure to do so could result in harm to the patient or operator.

CAUTIONS highlighted throughout this manual identify possible hazards in procedures or conditions, which if not followed correctly could result in equipment damage, or failure.



WARNINGS highlighted throughout this manual identify possible hazards in procedures or conditions which if not followed correctly could result in serious injury, or fatality.

General

- Electrical equipment can be hazardous if used incorrectly
- Residual current devices (RCD) are not supplied with Active Air 8 Replacements. Please consult with your Biomedical Engineer/advisor concerning RCD requirements
- The clinically qualified person responsible should consider the age, size and condition of the patient before using the Alternating Mattress Replacement
- The maximum safe working load of the Active Air 8 is 200kg with a safe patient range of 30-200kg
- This replacement is not to be used on top of a pre-existing support surface. This is a Mattress
 Replacement so there is no need for a static foam mattress or pressure safety underlay to be located
 underneath, this Replacement can go directly onto the bed platform



3. PRODUCT SAFEGUARDS

SAFEGUARD	DESCRIPTION
WARNING To reduce the risk of	 Occupants should not operate the product at any time. Always ensure that the pump is unplugged when not in use. Do not disassemble the pump at any time. Do not place or store the pump close to water or any other liquid.
electrocution	4. Do not submerge the pump in water or any other liquid.
electrocution	5. Do not make contact with the pump if it has come into contact with water or any other liquid, unplug immediately.
	1. The mattress must be operated by connecting it to the pump ensuring that it is not turned off or unplugged whilst in use.
	2. Always ensure that warning labels are adhered to ensuring that voltage is correct, approved power cords are used and that Children & Animals do not come into contact with the packaging materials that could cause suffocation.
	3. Equipment is not suitable to be used in the presence of a flammable anaesthetic mixture with air, oxygen or nitrous oxide.
	4. Keep away from sharp objects.
	5. Close supervision is necessary when this product is used by, on, or near children or people with disabilities.
	6. Use this product only for its intended use as described in the user manual. Do not use attachments not recommended by the Aidacare.
	7. Do not operate this product if the pump has a damaged power cord or plug, not working properly, has been dropped or damaged or dropped/submerged into water or another liquid. If this occurs, contact your Aspire dealer immediately for a product inspection.
	8. Keep the power cord away from hot surfaces.
WARNING To reduce the risk of	9. Do not block the air valves/tubes/openings by placing on a soft surface such as a bed or couch. Keep all valves/tubes/openings responsible for air flow, clear of all lint, hair and other particles.
burn, electrocution, fire	10. Do not insert any object into the air valves/tubes/openings.
or injury to the patient	11. Avoid dropping pump and do NOT mount any heavy objects on top of it.
or injury to the patient	12. Place the power cord and air hoses at the occupant's foot area to avoid strangling of the occupant's neck.
	13. Avoid electromagnetic interference by ensuring that electro-magnetic or RF generated equipment is kept away from the occupant.
	14. Over the course of operation, the pump will generate a small amount of heat. Do not maintain skin contact with pump for more than 1 minute at a time. Never cover the pump when it is in use, ensure air flow to pump is free at all times.
	15. During a power outage or loss (even if only temporary) the pump will stop and power failure alarm will sound for up to 20 seconds. The pump will return to normal operation once the power supply is resumed.
	16. Connect this product to a properly grounded outlet only.
	17. Avoid the risk of electrocution by grounding the ground pin with grounding power outlet.
	18. The EMC specification is compliant with all regulations and requirements. For power leads with a ground pin, the connection with properly grounded power outlets will supress the EMC effect. The pump will work correctly for power leads that are not grounded.
	19. Connecting auto-detection should only be performed by the operator and not the occupant.

4. PRODUCT OVERVIEW

This Alternating Mattress Replacement has been designed for the aged care and hospital environment.

Please take the time to familiarise yourself with the key components shown below:





5. ASSEMBLY & SETUP

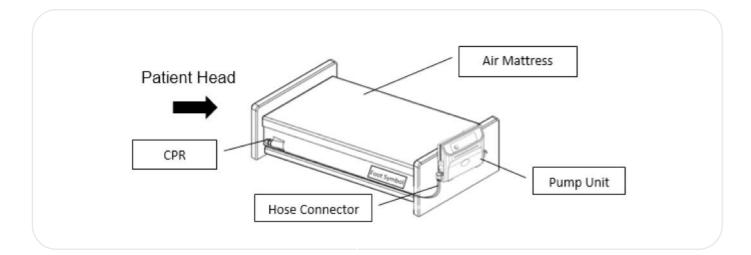
Box Contains:

- 1. Digital Mattress Pump
- 2. Mains Power Cable
- 3. 8 inch Mattress Replacement
- 4. Transport Carry Bag
- 5. User Manual

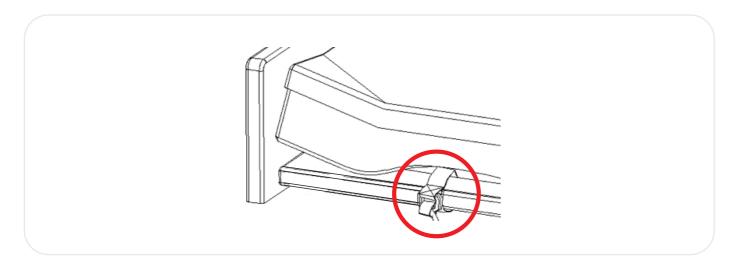


When opening the carton, ensure it is done in a safe and careful manner. DO NOT USE a box cutter or sharp implement as this may damage the product.

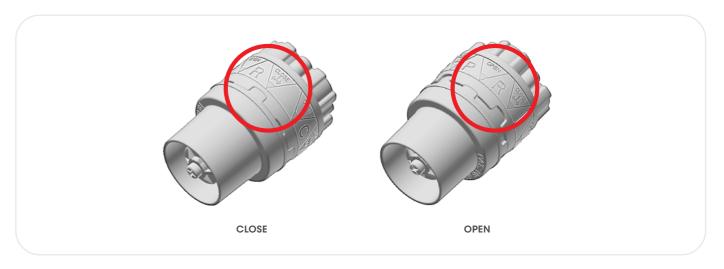
1. Place the 8 inch Mattress Replacement directly onto the mattress platform, ensuring that there is no foam mattress or pressure safety underlay underneath. Ensure the air pump hose is towards the **FOOT END** of the bed so it lines up with the pump.



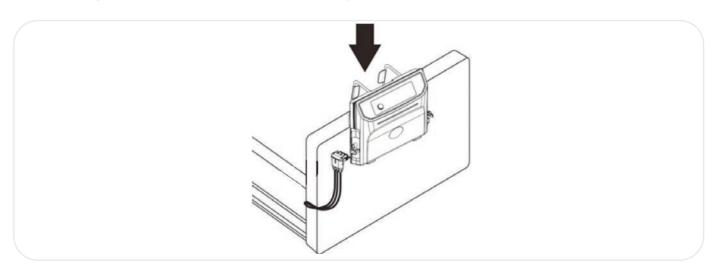
2. Secure the replacement onto the mattress platform by fastening and securing the nylon straps and plastic buckles.



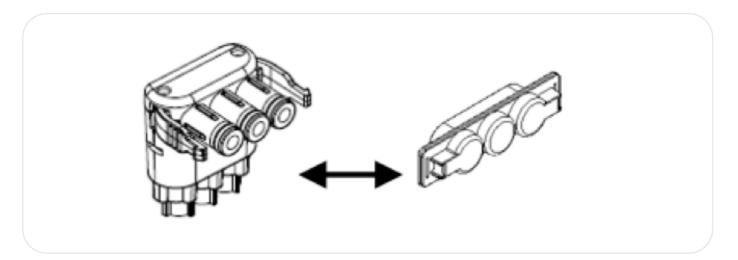
3. Ensure the CPR valve is at **CLOSE** position.



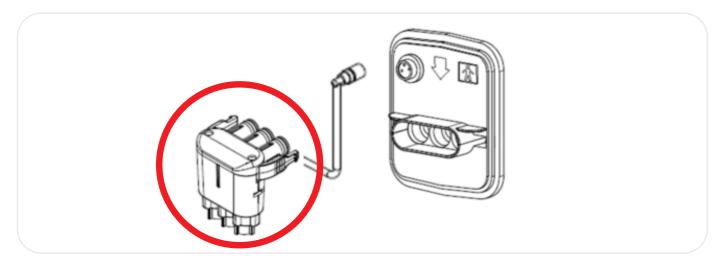
4. Position the pump on the **FOOT END** of the bed end. The spring hanger bracket assembly will self-adjust onto the footboard to secure it in place.



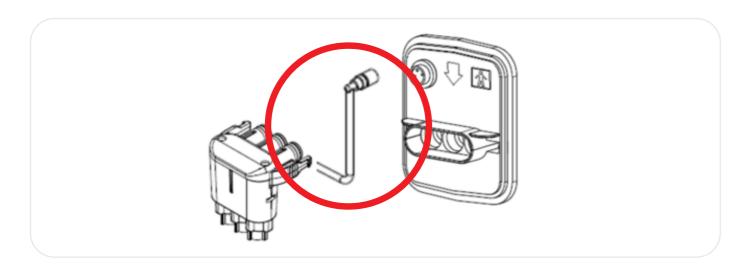
5. Remove the plastic protector cap from the end of the air hose.



6. Firmly push the hose connector into the side of the pump until a notable 'click' sound is heard.



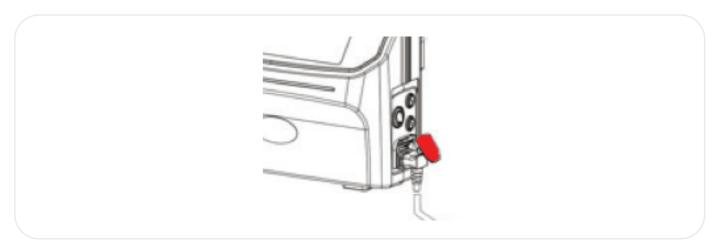
7. Connect the detection cable to the pump until a notable 'click' sound is heard.



8. Connect the mains power cable to the pump ensuring that the power switch remains switched OFF.



9. Press down in the L shape power cord protector to secure the power cord in place.



- 10. Plug the mains power cable into the electrical power socket.
- 11. Set mode suitable for patient, (Refer to **OPERATION** for further details on how to adjust the mattress replacement).



WARNING! DO NOT place the pump unit in an area where the power cord can become pinched or stuck.



WARNING! The digital pump is only to be used with the Aspire Active Air 8 and not any other system.

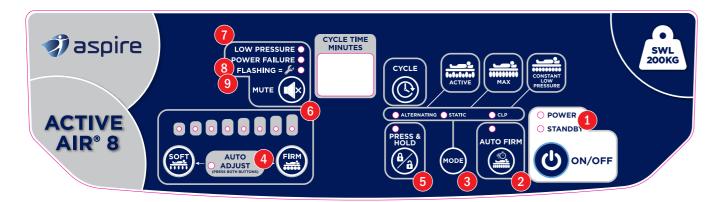


6. OPERATION

Aspire Active Air 8 Alternating Mattress Replacements are powered by a digital pump which can be controlled with the adjustment control panel.

Various modes can be set on the digital pump to ensure maximum comfort and pressure redistribution for the patient.

Adjustment Control Panel Operation



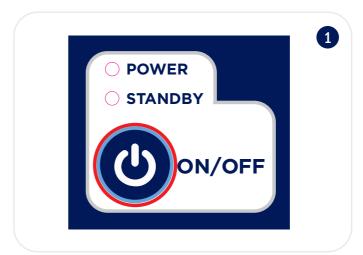
- 1 Power On/Ready for Use
- 2 Auto Firm
- 3 Pressure Mode Adjustment
- 4 Automatic Pressure Adjustment For Specific Patient
- 5 Function Lock Out
- 6 Mute
- 7 Low Pressure
- 8 Power Failure
- 9 Service Required

Auto Protect - functioning when upper half of mattress exceeds 45° (no audio or visual prompt)

Power On/Ready For Use

The power switch for the pump is located on the side of the pump.

- Press the power switch up on the side of the pump and press the ON/OFF button on the control panel
- 2. The 'POWER' LED will illuminate and inflate to normal pressure

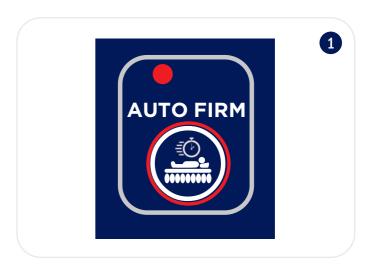




Auto Firm

This feature allows the mattress to inflate to maximum pressure automatically, specifically beneficial for patient ingress and egress. It can also be used as a tool to completely inflate the mattress.

- 1. Press the **AUTO FIRM** button down, LED light will illuminate and the mattress will start to firm to maximum level
- 2. Once the maximum level of pressure is reached, the pump will automatically switch into the previous selected mode and comfort level after 20 minutes

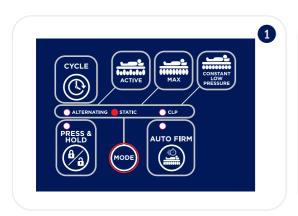




Pressure Mode Adjustment - Static, Alternating & Constant Low Pressure

Static Mode

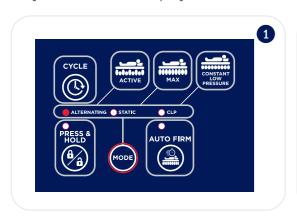
- 1. Press MODE button until the 'STATIC' LED light is illuminated
- 2. Static mode will automatically fall back to 'ALTERNATING' mode after 20 minutes





Alternating Mode

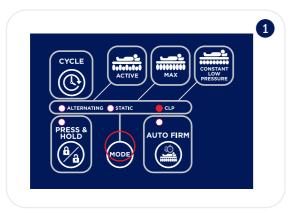
- 1. Press MODE button until the 'ALTERNATING' LED light is illuminated
- 2. Toggle the alternating cycle times (10, 15, 20, 25 or 30 minutes) by pressing the 'Cycle' button, the cycle time will be displayed on the LED screen





Constant Low Pressure

- 1. Press the **MODE** button until the **CLP** LED light is illuminated
- 2. The mattress will retain 50% of the selected pressure in the static mode for the selected pressure that has been set for the patient



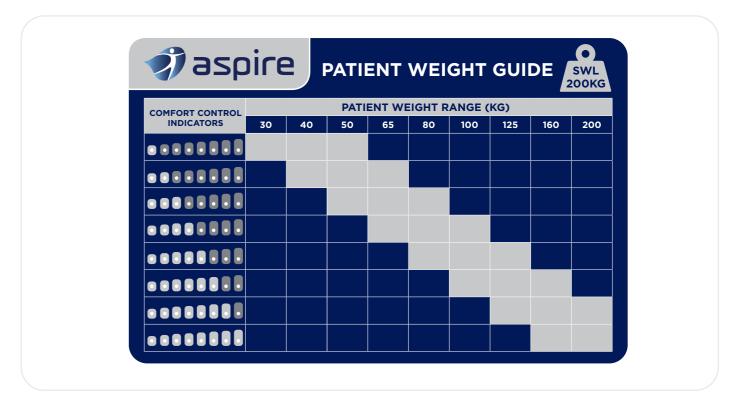
Comfort (Pressure) Adjustment

- 1. Press the **FIRM** button to increase pressure
- 2. Press the **SOFT** button to decrease pressure





NOTE: The below table indicates the suggested pressure according to the patients weight. This is intended as a guide only as patient body shapes vary.





Auto Adjust

Correct pressure levels are automatically set (dependent on patient weight) when activating the Auto Adjust feature.

- 1. Press and hold down the **SOFT & FIRM** buttons, the LED light will flash and start detecting correct pressure
- 2. Once adjusted, the LED light will stop flashing and will remain illuminated indicating the pressure has been adjusted for the specific user
- 3. The mattress pressure can be manually adjusted should the patient desire a different comfort level





Auto Protect

Additional air is pumped under the mattress pelvic region when the bed backrest angle is raised to prevent patient bottoming out. This is also refferred to as a fowler function.

- 1. Auto Protect will be triggered when the upper half of the mattress is elevated and exceeds an angle of 45° with 15mmHg of increased pressure from the pump to prevent bottoming out
- 2. Once the upper half of the mattress falls back to under 45° of elevation, the pump will revert to the previous mode/setting

Function Lock Out

Carers can lock out functions to ensure these are not accidentally toggled, impacting the operation of the mattress for the particular patient.

- 1. Press and hold the function lock out button until the LED light is illuminated. When illuminated the functions are locked out
- 2. To reverse this process, press and hold the function lock out button until the LED light is OFF. When LED is OFF all functions are unlocked



Mute

- 1. Press mute button to nullify all alarms from the pump
- 2. If issue is not rectified, the mute button will automatically disable and the alarm will reactivate. This is a safety function to ensure a prompt response when an issue or fault occurs



Low Pressure

If correct pressure is not achieved for the patient, the 'LOW PRESSURE' LED light will illuminate and an alarm will sound.

- 1. If the control pump senses low pressure, the **'LOW PRESSURE'** LED light will illuminate and alarm
- 2. Refer to the troubleshooting sticker on the base of the pump to identify if there is a quick and easy solution, if not please contact your Aspire dealer immediately







Power Failure

- 1. If the control pump senses a power failure, the 'POWER FAILURE' LED light will illuminate
- 2. Refer to the troubleshooting sticker on the base of the pump to identify if there is a quick and easy solution, if not please contact your Aspire dealer immediately





Service Required

- 1. If the control pump senses a fault or issue, the service LED light will illuminate
- 2. Refer to the troubleshooting sticker on the base of the pump to identify if there is a quick and easy solution, if not please contact your Aspire dealer immediately

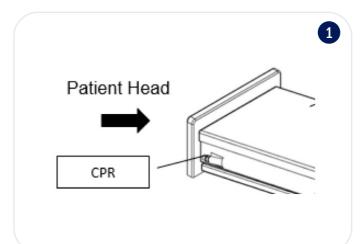


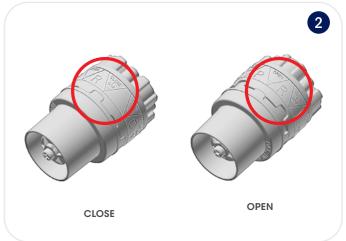


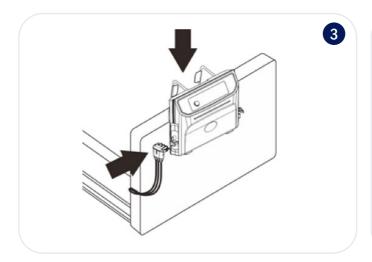
General Operation

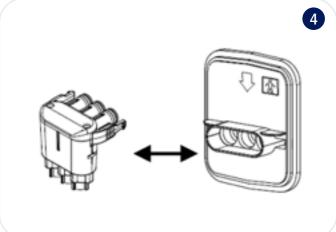
CPR

- 1. Locate the CPR switch which is located at the **HEAD** end of the bed
- 2. Open the CPR valve by twisting the cylinder to the **RIGHT** to the **OPEN** position
- 3. Locate the hose connector connected to the pump at the **FOOT** end of the bed
- 4. Disconnect the hose connector from the pump









7. PRODUCT SPECIFICATIONS

PUMP UNIT		
Dimensions (W x D x H)	320 x 230 x 130mm	
Weight	3.5kg	
Cycle Times	10/15/20/25/30 minutes	
Static Time	20 minutes	
Auto Firm Time	20 minutes	
Pump Output Pressure Range (mmHg)	25 ~ 60 (±5)	
Voltage	AC230 V 50Hz	
Current	0.12 AMAX (@253V-)	
Fuse Rating	T1AL 250VAC	
Frequency	50 Hz (230V)	
Classification	Class II	
lassification	Type BF	
Operation Environment	5 ~ 40°C 15% ~ 90% Relative Humidity (no condensation)	
Storage Environment	-25 ~ 70°C 90% Relative Humidity (no condensation)	
Environment Pressure (kPa)	70 ~ 106	
Environment Horizontal Altitudes	≤ 3000m	
Water and Dust Protection Classification	IP21	

AIR MATTRESS - SINGLE	
Dimensions (L x W x H)	2000 x 900 x 200mm
Weight	8.9kg
Cell Material	TPU
No. of Air Cells	20
Cover Material	Multi-stretch PU coated fabric with high MVTR
Bottom Material	Polyester-PU
Max Weight	200kg

AIR MATTRESS - KING SINGLE	
Dimensions (L x W x H)	2000 x 1050 x 200mm
Weight	8.9kg
Cell Material	TPU
No. of Air Cells	20
Cover Material	Multi-stretch PU coated fabric with high MVTR
Bottom Material	Polyester-PU
Max Weight	200kg

8. CLEANING

To ensure all infection control protocols are strictly adhered to, it is extremely important to follow the below steps to keep the product clean at all times.

Mattress Pump

- Wipe with a damp cloth that has been pre-soaked with a mild detergent
- Ensure pump is kept free of dust and other particles



DO NOT! Immerse or soak the mattress pump at any time

Mattress Cover

- To remove small spills or stains, wipe the mattress cover with a damp cloth that has been pre-soaked with a mild detergent or single use disinfectant wipe
- To remove large spills or stains, the top cover should be completely removed and laundered as per below procedure:
- 1. Remove top cover by unzipping all 4 x sides from the mattress base
- 2. Prewash top cover at up to 95° for 15 minutes
- 3. Main wash top cover at up to 95° for 15 minutes
- 4. Dry mattress cover prior to use by hanging up on a line/air dryer or on a low heat setting it can be tumble dried for up to 90 minutes
- 5. Once dry, reattach top cover by zipping all 4 sides back onto the mattress base



DO NOT! Use phenol based products



WARNING! After cleaning, the mattress must be completely dried prior to use



WARNING! Do not dry mattress cover in direct sunlight to prevent wearing out of text on cover



9. MAINTENANCE & STORAGE

To ensure longevity of your Alternating Mattress Replacements, it is very important that it is correctly stored and regularly maintained.

General

- Check mains power cable and plug for any abrasions or excessive wearing
- Check mattress cover for signs of wear or damage
- Check air hoses for any kinks or breakages

Fuse Replacement

- Disconnect the mains power if there is a blown fuse
- Remove the cover on the side casing of the pump
- Remove old fuse and reinsert a new fuse, fix in place with the cover



WARNING! Only use fuse supplied by your Aspire Dealer, ensuring it has the correct rating and specification

Air Filter Replacement

- Remove the cover on the rear casing of the pump
- Remove old filter and reinsert a new filter, fix in place with the cover

NOTE: If the filter does not require replacement, it can be cleaned by being washed gently with a mild detergent and warm water. Ensure the filter is dry prior to installing back into mattress pump.



WARNING! Only use filter supplied by your Aspire Dealer, ensuring it has the correct rating and specification

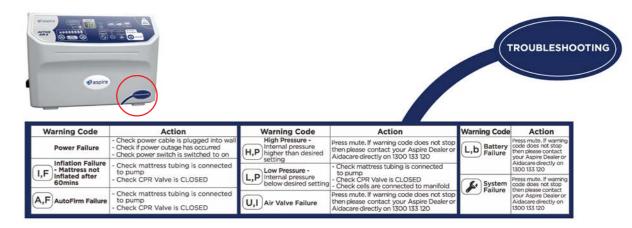
Storage

- Release all air from mattress by OPENING CPR valve and disconnecting mattress hose from pump
- Lay the mattress out flat & roll from **HEAD** end towards **FOOT** end
- Tighten mattress straps into clamps to prevent mattress unrolling
- · Packing strap can then be stretched around the rolled mattress to prevent unrolling.
- Wrap power cord around the mattress

10. TROUBLESHOOTING

PROBLEM	SOLUTION
Pump will not connect with mattress	 Check mattress and pump are compatible, only digital Aspire pumps are to be used with this system Check plastic transport cap has been removed and ensure the connection is not broken If problem persists, contact your Aspire dealer
Pump not working	 Check pump is connected to mains power Check power switch is in the ON position If problem persists, contact your Aspire dealer
Power failure	 Check pump is connected to mains power Check power switch is in the ON position If problem persists, contact your Aspire dealer
Low pressure LED light flashing/alarm is going off	 Check CPR valve is in CLOSED position Check air hoses/tubes are tightly secured Check all coupling connections along the mattress are secured If problem persists, contact your Aspire dealer
Pump is on but mattress will not alternate	 Ensure the mattress is inflated Check if ALTERNATING mode is ON Check if SERVICE REQUIRED LED, if yes, contact your Aspire dealer
Alarm is sounding	 Press mute for system to be verified If alarm continues to sound, contact your Aspire dealer
Noisy pump	 Check pump is mounted correctly and flat against FOOT end of bed If noise persists, contact your Aspire dealer
Bottoming out but no alarm	 Check pressure setting is correct for specific patient, adjust comfort dial according to the patient weight range table on page 16 Refer to 'Low pressure light flashing/alarm is going off' point above If the problem persists, contact your Aspire dealer

As a quick reference tool, refer to the troubleshooting sticker on the base of the pump casing for quick solutions. Always refer to the user manual where possible.





11. WARRANTY & SERVICE

Aspire Active Air 8 Alternating Mattress Replacements carry a comprehensive warranty as detailed below. Please keep proof of purchase for proof of warranty commencement.



Pump + Mattress

Consumer Warranty Against Defects:

Aidacare is bound by Australian Consumer Law in respect to Warranty Against Defects. A copy of the Aidacare Warranty Against Defects statement is available on the Aidacare homepage at www.aidacare.com.au. All warranty matters should be directed to Aidacare Customer Service on 1300 133 120.

Aidacare does not warrant against excessive or incorrect use, modification or any situation that could not be deemed as fair wear and tear. This is a back to base warranty and does not cover freight costs pertaining to the return of any items under warranty. Aidacare acknowledges and conforms to all ACCC guidelines around consumer rights. For further information contact Aidacare on 1300 133 120 or email product@aidacare.com.au.

Aidacare will not warrant the safety and or correct functioning of products where any original components have been changed or modified by non-Aidacare approved and trained service & maintenance staff or external providers. Furthermore, safety is not guaranteed where components have been replaced with non-original Aidacare approved parts. If any faults are detected upon receipt of this product please phone Aidacare. Any faults that are detected during normal use should be reported to Aidacare immediately to determine if warranty conditions apply and if so, the necessary repair or replacement work to be completed.

Spare parts list is available upon request.

For servicing, preventative maintenance and any other questions regarding this or any other Aidacare product please contact:

Aidacare Pty Ltd Building 3A, 1 Moorebank Avenue Moorebank NSW, 2170 T - 1300 133 120

W - <u>www.aidacare.com.au</u>

E - product@aidacare.com.au

12. SERVICE LOG BOOK

YEAR 1	Date:
Service Type:	
Condition Report:	
Action taken:	
Inspected By:	
Const	
Signature:	
YEAR 2	
TEAR 2	Date:
Service Type:	
Condition Report:	
Action taken:	
Inspected By:	
Signature:	
Signature.	
YEAR 3	
TEAR 3	Date:
Service Type:	
Condition Report:	
Action taken:	
Inspected By:	
Signature:	
3	
YEAR 4	
	Date:
Service Type:	
Condition Report:	
Action taken:	
Inspected By:	
Signature:	
YEAR 5	Date:
Service Type:	
Condition Report:	
Action taken:	
Inspected By:	
порестеч ву.	
Signature:	



Manufactured and Imported by:

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