LIFECOMFORT
ACTIVE AIR
Dynamic Alternating Air Mattresses
for Pressure Care

aspire for...
Prevention
& Therapy
of Pressure
Injuries

www.aspirecare.com.au
1300 133 120
的压力损伤的预防和管理在整体护理中具有重要意义，特别是在老年人和急性护理环境中。

活跃空气系列的交替床垫和覆盖物已经设计与国际压力护理指南。这些指南明确了压力损伤发展的关键风险因素。

活跃空气系列适用于“风险”到“高风险”用户在所有临床环境。

**压力**

当人有限的运动时，压力在骨隆起和体重承受的部位积聚。

这种压力导致小血管的闭塞，限制了血液流动和氧气的传递。

这导致细胞和组织死亡，导致压力损伤。

为了对抗这种情况，活跃空气系列在1:2模式中交替。

50%的体重与表面接触，而50%的体重被释放了压力。

这种“压力上 / 压力下”周期鼓励了血液流动并促进了压力再分配。

**Microclimate**

微气候是指皮肤和支撑表面之间的温度和湿度。

对于每1°C的温度升高，人体细胞的代谢率增长10%。

这增加了对营养和氧气的需求 - 前者有助于皮肤保护和预防压力损伤。

**Multi-Stretch Vapour Permeable Covers**

多伸展蒸汽透湿覆盖物有助于微气候管理。

高湿蒸汽转移率（MVTR）促进空气流动，增强透气性，促进最佳皮肤条件。

**Air Flow**

活跃空气床垫设计鼓励气流通过交替周期由画布绘制并推动空气作为细胞膨胀和塌陷，帮助通风和减少皮肤热量和水分。

**Shear & Friction Forces**

**Shear** 是压力损伤发展的重大原因。摩擦力是在皮肤表面摩擦和压力下产生的，当皮肤的上层移动与支撑表面，而下层组织保持原位或移动到相反的方向。

当暴露在摩擦力下时，皮肤更可能受到伤害，导致发展成为压力损伤。

摩擦力发生在两个表面滑动的过程中。

在压力护理中，摩擦力会导致皮肤摩擦，是压力损伤的重要原因。

**Cell-In-Cell Technology**

交替空气细胞包含一个内部“安全细胞”，它保持完全膨胀以防止下陷，增加患者安全性并提供更好的表面稳定性。

**Multi-Stretch Covers**

多伸展覆盖物随着用户移动，减少摩擦和失重，而蒸汽透湿促进皮肤完整性并优化皮肤微气候。

**AutoStay Band**

活跃空气垫和床垫采用AutoStay保留带，该带固定细胞以最大治疗效果。

Active Air 4 - Dynamic Mattress Overlay

The Active Air 4 is a lightweight, easy to use Overlay that is placed on top of an existing foam mattress. Featuring COMFORT CONTROL and offering a suite of other features, the Active Air 4 caters to users considered to be “At Risk” of Pressure Injury. An ideal solution for Home Care or Facility environments.

CLINICAL CONSIDERATIONS

Sleep Quality
Innovative pump technology reduces noise and vibration, for a quieter sleep environment.

Infection Control
Welded seams and zip protection prevent fluid and bacterial ingress into the system, facilitating stringent infection control measures.

Skin Microclimate
The multi-stretch cover reduces shear and offers a high Moisture Vapour Transfer Rate (MVTR). This promotes air flow and enhances breathability.

Workplace Health and Safety
The power cord is retained within the overlay eliminating its potential as a trip hazard, as well as cable damage within the bed mechanism. The power cord can be run along either side of the overlay for improved access to power outlets.

Pressure Care Outcomes
Intelligent cell design maximises the duration of pressure reduction in the alternation cycle.

Laundry & Hygiene
Machine washable cover at 95˚C to achieve superior sanitising.

OVERLAY

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<thead>
<tr>
<th>CODE</th>
<th>PTM639100</th>
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<tbody>
<tr>
<td>SYSTEM</td>
<td>Active Air 4 Overlay</td>
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<tr>
<td>RISK CATEGORY</td>
<td>At Risk to High Risk</td>
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<tr>
<td>PATIENT WEIGHT RANGE</td>
<td>30 - 135kg</td>
</tr>
<tr>
<td>TOTAL NO. OF CELLS</td>
<td>19</td>
</tr>
<tr>
<td>STATIC HEAD CELLS</td>
<td>3</td>
</tr>
<tr>
<td>CELL CYCLE</td>
<td>1 in 2</td>
</tr>
<tr>
<td>CYCLE TIME</td>
<td>10 / 15 / 20 mins</td>
</tr>
<tr>
<td>CELL MATERIAL</td>
<td>Nylon TPU</td>
</tr>
<tr>
<td>LENGTH</td>
<td>2000mm</td>
</tr>
<tr>
<td>WIDTH</td>
<td>850mm</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>100mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>4.9kg</td>
</tr>
</tbody>
</table>

CONTROL UNIT

| CONTROLS | Semi-Digital |
| DIMENSIONS | 320mm x 130mm x 230mm |
| WEIGHT | 3.5kg |
| SUPPLY VOLTAGE | 230V, 50Hz |

Variable Cycle Times - A choice of 10, 15 or 20 minute cycles for caregivers to meet the comfort needs of a range of users. The system defaults to the shortest cycle time.

Comfort Control Dial - Allows caregivers to adjust pressure to suit the user’s pressure care needs according to their body weight.

Active Microclimate Management - Air is recirculated around the mattress cells reducing moisture and improving sleep surface comfort.

AutoLock - Control panel automatically locks if not touched for 30 seconds preventing accidental changes to modes and settings.

Audible & Visual Alarms - Staff are immediately alerted if a problem occurs, maximising peace of mind and reducing the risk to the patient.

Rapid Release CPR - Allows quick deflation of the overlay, including head cells, in emergency situations. This valve can also be used in conjunction with the optional Rapid Inflation Turbo Pump for rapid inflation in urgent situations.

Intelligent Static Mode - After 20 minutes the system will revert back to alternating mode. This ensures maximum user protection and pressure management if staff forget to reactivate alternation.

Modular Pump Design - Improves serviceability thus reducing down time.

Power Cord Protection - Patented cable lock significantly reduces the risk of power cord disconnection or damage.

Simple Cell Connections - O-ring connections push to lock/pull to unlock for tool-free maintenance.

Rapid Inflation - Optional Rapid Inflation Turbo Pump completely inflates overlay in 10-15 seconds for rapid response to increased patient needs.

Power Cord Management - Power cords can be run along either side of the overlay.
The Active Air 5 provides an effective solution for higher weight users considered to be "At Risk" of Pressure Injury. Featuring AUTO DETECT and INTELLIGENT STATIC MODE which provide lower interface pressure and enhanced comfort, the Active Air 5 is suitable for use in a wide range of care settings from Home Care and Acute to Long Term care.

**COMFORT**
For Improved User Outcomes

**PROTECTION**
Maximises Up Time and Reliability

**SAFETY**
For Users & Care Staff

**CLINICAL CONSIDERATIONS**

**Sleep Quality**
Innovative pump technology reduces noise and vibration, for a quieter sleep environment. Large self-adjusting pump hooks fasten effectively to a wide range of beds.

**Infection Control**
Welded seams and zip protection prevent fluid and bacterial ingress into the system, facilitating stringent infection control measures.

**Skin Microclimate**
The multi-stretch cover reduces shear and offers a high Moisture Vapour Transfer Rate (MVTR). This promotes air flow and enhances breathability.

**Workplace Health and Safety**
The power cord is retained within the overlay eliminating it’s potential as a trip hazard, as well as cable damage within the bed mechanism. The power cord can be run along either side of the overlay for improved access to power outlets.

**Pressure Care Outcomes**
Intelligent cell design maximises the duration of pressure reduction in the alternation cycle.

**Easy-to-Read LCD Screen**
The LCD screen provides clear and precise information on cycle time, operating mode and fault codes to assist with troubleshooting.

**Laundry & Hygiene**
Machine washable cover at 95°C to achieve superior sanitising.

**Innovative pump technology**
- Reduces noise and vibration for a quieter sleep environment.
- Large self-adjusting pump hooks fasten to a wide range of beds.

**Welded seams and zip protection**
- Prevents fluid and bacterial ingress into the system.
- Facilitates stringent infection control measures.

**Multi-stretch cover**
- Reduces shear.
- Offers a high Moisture Vapour Transfer Rate (MVTR).
- Promotes air flow and enhances breathability.

**Power cord retention**
- Within the overlay to eliminate potential as a trip hazard.
- Can be run along either side of the overlay.

**LCD screen**
- Provides clear and precise information on cycle time, operating mode and fault codes.

**Machine washable cover**
- Washable at 95°C for superior sanitising.

**Specifications**
- **System**: Active Air 5
- **Risk Category**: Active Air 5 Overlay
- **Patient Weight Range**: 30 - 175 kg
- **Total No. of Cells**: 16
- **Static Head Cells**: 3
- **Cell Cycle**: 1 in 2
- **Cycle Time**: 10 / 15 / 20 mins
- **Cell Material**: Nylon PU
- **Length**: 2000 mm
- **Width**: 850 mm / 1050 mm
- **Height**: 130 mm
- **Weight**: 5.3 kg / 5.7 kg
- **Control Unit**: Digital
- **Dimensions**: 320 mm x 130 mm x 230 mm
- **Supply Voltage**: 230V, 50Hz

**Contact Information**
- **Website**: www.aspirecare.com.au
- **Telephone**: 1300 133 120
The Active Air 8 is a dynamic mattress replacement suitable for users at ‘High Risk’ of Pressure Injury. Featuring AUTODETECT, and AUTOPROTECT, together with CELL-IN-CELL technology, the Active Air 8 provides the highest levels of care into Acute and Long Term care environments. The Active Air 8’s innovative features ensure lowest interface pressures with an easy-to-use digital pump.

**Active Air 8 - Dynamic Mattress Replacement**

**CLINICAL CONSIDERATIONS**

- **Sleep Quality**
  - Innovative pump technology reduces noise and vibration, for a quieter sleep environment. Large self-adjusting pump hooks fasten effectively to a wide range of beds.

- **Infection Control**
  - Welded seams and zip protection prevent fluid and bacterial ingress into the system, facilitating stringent infection control measures.

- **Skin Microclimate**
  - The multi-stretch cover reduces shear and offers a high Moisture Vapour Transfer Rate (MVTR). This promotes air flow and enhances breathability.

- **Workplace Health and Safety**
  - The power cord is retained within the mattress eliminating it’s potential as a trip hazard, as well as cable damage within the bed mechanism. The power cord can be run along either side of the mattress for improved access to power outlets.

- **Pressure Care Outcomes**
  - Intelligent cell design maximises the duration of pressure reduction in the alternation cycle.

- **Easy-to-Read LCD Screen**
  - The LCD screen provides clear and precise information on cycle time, operating mode and fault codes to assist with troubleshooting.

- **Laundry & Hygiene**
  - Machine washable cover at 95°C to achieve superior sanitising.

**COMFORT**

For Improved User Outcomes

- **Variable Cycle Times**
  - A choice of 10, 15, 20, 25 or 30 minute cycles allowing caregivers to meet the comfort needs of a range of users. The system defaults to the shortest cycle time.

- **Customised Comfort**
  - Allows the carer to override the AutoDetect function to adjust pressure to suit the user’s comfort needs.

- **Cell in Cell Technology**
  - When the bed is moved, the top two layers of cells move with the user, whilst the bottom later remains in position on the bed platform, reducing shear and preventing bottoming out.

- **Active Microclimate Management**
  - Air is recirculated around the mattress cells reducing moisture and improving sleep surface comfort.

- **Zoned Cell Layout**
  - Cell width is narrowed through the lower torso/sacral area for improved comfort and pressure redistribution.

**SAFETY**

For Users & Care Staff

- **AutoLock**
  - Control panel automatically locks if not touched for 30 seconds, preventing accidental changes to modes and settings.

- **Audible & Visual Alarms**
  - Staff are immediately alerted if a problem occurs, maximising peace of mind and reducing the risk to the patient.

- **Rapid Release CPR**
  - Allows quick deflation of the mattress, including head cells, in emergency situations. This valve can also be used in conjunction with the optional Rapid Inflation Turbo Pump for rapid inflation in urgent situations.

- **Intelligent Static Mode**
  - After 20 minutes the system will revert back to alternating mode. This ensures maximum user protection and pressure management if staff forget to reactivate alternation.

- **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 user’s weight and size, appropriate pressure output is automatically calculated to ensure optimal care and protection.

- **24 Hour Transport Mode**
  - In the event of a power failure, this feature provides a security buffer allowing patients to remain on an inflated surface until power can be restored.

**PROTECTION**

Maximises Up Time and Reliability

- **Modular Pump Design**
  - Improves serviceability thus reducing down time.

- **Power Cord Protection**
  - Patented cable lock significantly reduces the risk of power cord disconnection or damage.

- **Simple Cell Connections**
  - O-ring connections push to lock/pull to unlock for tool-free maintenance.

- **Rapid Inflation**
  - Optional Rapid Inflation Turbo Pump completely inflates mattress in 10-15 seconds for rapid response to increased patient needs.

- **Power Cord Management**
  - Power cords can be run along either side of the mattress.

**LIFECOMFORT ACTIVE AIR MATTRESS RANGE**

**MATTRESS**

<table>
<thead>
<tr>
<th>Model</th>
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<th>King Single</th>
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<tbody>
<tr>
<td>CODE</td>
<td>PTM639300</td>
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<tr>
<td>SYSTEM</td>
<td>Active Air 8 Mattress Replacement</td>
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<td>RISK CATEGORY</td>
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<tr>
<td>PATIENT WEIGHT RANGE</td>
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<tr>
<td>TOTAL NO. OF CELLS</td>
<td>20</td>
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<tr>
<td>STATIC HEAD CELLS</td>
<td>3</td>
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<tr>
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<td>1 in 2</td>
<td></td>
</tr>
<tr>
<td>CYCLE TIME</td>
<td>10 / 15 / 20 / 25 / 30 mins</td>
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<tr>
<td>CELL MATERIAL</td>
<td>Pure TPU</td>
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</tr>
<tr>
<td>LENGTH</td>
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<td></td>
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<tr>
<td>WIDTH</td>
<td>900mm x 1050mm</td>
<td></td>
</tr>
<tr>
<td>HEIGHT</td>
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<tr>
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<td>9.9kg</td>
<td></td>
</tr>
<tr>
<td>WEIGHT</td>
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</tr>
<tr>
<td>CONTROL UNIT</td>
<td>Digital</td>
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**DIMENSIONS**

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<tr>
<th>Model</th>
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<tbody>
<tr>
<td>CODE</td>
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</tr>
<tr>
<td>WEIGHT</td>
<td>3.5kg</td>
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<tr>
<td>SUPPLY VOLTAGE</td>
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**WEIGHT**

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Active Air Choice Assistance Guide

The support system you choose should match the individual’s needs. This guide was developed, based on best available evidence, to guide you in choosing the most appropriate Active Air System.

IMPORTANT CONSIDERATIONS:
• It is important to remember that this is a guide and that good clinical judgement is required when determining a person’s Pressure Injury risk.
• Always consider recent changes in patient condition or physiology e.g. illness leading to weight loss; reduced mobility due to injury; preparation for surgery & post-surgery outcomes.
• Assessment of Pressure Injury risk should be ongoing.

LIFECOMFORT ACTIVE AIR MATTRESS RANGE

<table>
<thead>
<tr>
<th>TREATMENT</th>
<th>PREVENTATIVE</th>
<th>THERAPEUTIC</th>
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<tbody>
<tr>
<td>WATERLOW SCORE</td>
<td>&lt;10</td>
<td>10+</td>
</tr>
<tr>
<td>BRADEN SCORE</td>
<td>18 - 15</td>
<td>14 - 13</td>
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</table>

Low Risk
• Current Pressure Injury
• History of Pressure Injury

At Risk
• Current Pressure Injury
• History of Pressure Injury

High Risk
• Current Pressure Injury
• History of Pressure Injury

Very High Risk

Can adequately reposition every 30 minutes?

Low Risk

At Risk

High Risk

Very High Risk

See the lifecomfort Foam & Hybrid Mattress Range

LIFECOMFORT ACTIVE AIR MATTRESS RANGE

Quick Reference Guide

<table>
<thead>
<tr>
<th>OVERLAY / MATTRESS</th>
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<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>System</td>
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<tr>
<td>Risk Category</td>
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<td>Patient Weight Range</td>
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<td>Number of Cells</td>
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<tr>
<td>Cell Material</td>
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<tr>
<td>Single – Dimensions</td>
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<td>King Single – Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Safe Working Load</td>
</tr>
</tbody>
</table>

CONTROL UNIT

| Controls | Semi - Digital | Digital | Digital |
| Dimensions | 320mm x 130mm x 230mm | 320mm x 130mm x 230mm | 320mm x 130mm x 230mm |
| Weight | 3.5kg | 3.5kg | 3.5kg |
| Supply Voltage | 230V, 50Hz | 230V, 50Hz | 230V, 50Hz |

FEATURES

| AutoDetect | x | ✔ | ✔ |
| AutoProtect | x | x | ✔ |
| Autosize | ✔ | ✔ | ✔ |
| AutoStay | ✔ | ✔ | ✔ |
| CPR Release | ✔ | ✔ | ✔ |
The Active Air Management Cycle ensures efficient and effective supply and support to patients.

Order is placed by Individual Patient, Care Facility or Hospital. - Order is confirmed by Aidacare.

Rental or Purchase options are available on all Lifecomfort Active Air Mattresses.

Aidacare deliver, install and 'rapid inflate' the mattress on the patient's bed.

QA Check
Air Mattress is sanitised, tagged & QA checked, then packed and ready for re-use.

Return
The Air Mattress is returned to the Aidacare wash bay and decontamination area.

Collection
Aidacare collects the 'on hire" Air Mattress on notification when it is no longer required.

ASSOCIATED PRODUCTS

OVERBED TABLES

TOILETING AIDS & COMModes

SHOWER STOOLS & CHAIRS

CRUTCHES, FRAMES & STICKS

SHOWER COMModes

BEDS & BED POLES

SEAT WALKERS

POWER WHEELCHAIRS

PRESSURE CUSHIONS

LIFT & RECLINE CHAIRS

FOAM MATTRESSES

LIFTERS

www.aspirecare.com.au
1300 133 120