

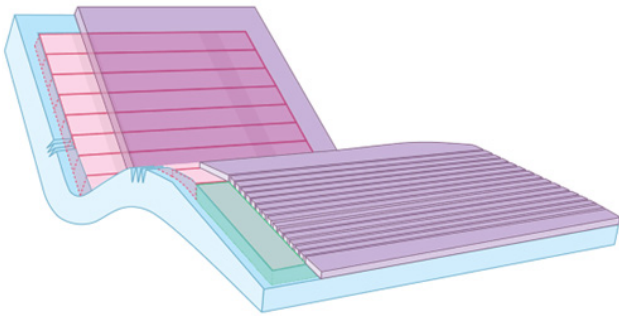


# CLINICAL ASSISTANCE GUIDE

ASPIRE HYBRID COMFORT MATTRESS

# Hybrid Comfort Mattress

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The HYBRID COMFORT is an Acute mattress system offering foam-in-cell technology enabling flexible operation as a high comfort foam static support surface or a powered-up alternating pressure support surface. Specifically re-engineered for increased patient comfort, foam layering now effectively supports patient weight ranging from 50-230kg.

The HYBRID COMFORT is rated for use with people with a medium to high pressure care risk.

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## FEATURES

- **Immersive Visco-elastic Memory Foam Surface:** Top layer is now twice as thick to offer significant improvement in user immersion, envelopment and comfort
- **Self-Adjusting Pressure Redistribution:** In non-powered mode, 9 interconnected foam filled cells allow air to move freely between them via the user's body movements. An integrated memory foam overlay improves immersion, envelopment and comfort.
- **Intelligent Hose Management:** When not in use the air-hose can be stored internally, reducing infection control and OH&S risks.
- **Integrated Shear Reduction:** Memory foam layer moves independently of the cell surface reducing shear when bed is adjusted.
- **Optimised Heel Protection:** Tapered heel zone redistributes pressure to lower leg, away from the vulnerable heel region. The castellated surface collapses in a wave-like movement reducing shear.
- **Innovative pump technology:** Reduces noise and vibration for undisturbed sleep.
- **Effective Weight Range:** 50kg – 230kg
- **Pressure Care Risk Rating:** Medium to High
- **Infection Control:** Medical Grade Waterfall Covers are fully-welded over the zipper to maximise infection control.
- **Skin Microclimate:** The 4-way stretch cover reduces shear and offers a high Moisture Vapour Transfer Rate (MVTR) to promote air flow and optimal skin microclimate
- **CPR Compatible:** In non-powered mode, the foam-core cells allow CPR to take place. When in powered mode, simply disconnect the pump to facilitate resuscitation
- **Reduced Manual Handling Effort:**
  - By attaching the pump, support surface performance can be stepped up or down to meet user needs. This reduces the need to transfer users and manually swap mattresses.
  - Integrated carry handles for safe manual handling
- **Hospital Grade Infection Control:** ALL LIFECOMFORT® MATTRESSES are fitted with superior, hospital-grade polyurethane coated covers designed to withstand the rigors of usage and cleaning requirements in Home Care, Aged Care and up to Acute Care environments

## IDEAL USER CONDITIONS

- The Hybrid Mattress System is suitable for use with ambulant and non-ambulant people with high pressure care needs within the following settings:
  - Community
  - Aged Care
  - Hospital

## The HYBRID COMFORT would benefit:

- Bed users assessed as having a high risk of, or a history of pressure injuries. The Hybrid Mattress system provides the ability to easily step-up or step-down the level of support required without the need to source, change or transfer the bed user on/off their mattress. By connecting to the pump, the hybrid support surface converts from a static foam mattress to an alternating pressure care mattress with minimal delay and rapid intervention for at risk users. In addition, there is likely reduced pain and disruption for the client as they do not need to be transferred to allow the mattresses to be swapped and the bed remade.
- Bed users with reduced bed mobility or who spend extended periods on their bed and require a high risk rated mattress
- Bed users who have a high risk of pressure injury who find it difficult to sleep on an alternating air mattress due to reduced comfort, noise, movement or reduced independence with bed mobility or transfers.
- Formal and informal carers through reduced manual handling as a single mattress is utilised.
- Community based bed users who require the security of an alternating air mattress that won't bottom out if there is a disruption to the power source. The powered Hybrid Mattress will revert to the static foam mattress during a power outage.

## CLIENT OUTCOMES

### Reduced risk for developing a pressure injury:

- Medium to High mattress risk rating
- Skin Microclimate: The 4-way stretch cover reduces shear and offers a high Moisture Vapour Transfer Rate (MVTR) to promote air flow and optimal skin microclimate
- Integrated Shear Reduction: Memory foam layer moves independently of the cell surface reducing shear when bed is adjusted.
- Optimised Heel Protection: Tapered heel zone redistributes pressure to lower leg, away from the vulnerable heel region. The castellated surface collapses in a wave-like movement reducing shear.
- Immersive Visco-elastic Memory Foam Surface: Top layer is now twice as thick to offer significant improvement in user immersion, envelopment and comfort
- Self-Adjusting Pressure Redistribution: In non-powered mode, 9 interconnected foam filled cells allow air to move freely between them via the user's body movements. An integrated memory foam overlay improves immersion, envelopment and comfort.
- The Hybrid Mattress system provides the ability to easily step-up or step-down the level of support by connecting the pump, converting the hybrid support surface from a static to an alternating pressure care mattress with minimal delay and rapid intervention

### Reduced pain, cost and increased support needs associated with incurring a pressure injury:

- Pressure injuries require intervention of a multidisciplinary team (including medical, nursing, dietetics and AHP professionals) to ensure healing
- Healing requires the injured area to be offloaded and, depending on the level of pressure injury, this could take weeks or months for healing to occur. During this time the client and/or carer is likely to require increased assistance with support needs such as personal care, domestic and shopping assistance and meal preparation

### Improved comfort:

- Immersive Visco-elastic Memory Foam Surface: Top layer is now twice as thick to offer significant improvement in user immersion, envelopment and comfort
- Self-Adjusting Pressure Redistribution: In non-powered mode, 9 interconnected foam filled cells allow air to move freely between them via the user's body movements. An integrated memory foam overlay improves immersion, envelopment and comfort.
- Innovative pump technology: Reduces noise and vibration for uninterrupted sleep.

### Improved bed mobility:

- Firm foam bed edges improve safety and independence with bed transfers

## SPECIFICATIONS

Code	PTM638005	PTM638006	PTM638030
Display Name	Lifecomfort Hybrid Comfort Mattress - Single	Lifecomfort Hybrid Comfort Mattress - King Single	Digital Pump
Total Length	1980mm	1980mm	320mm
Total Width	895mm	1050mm	230mm
Total Height	170mm	170mm	130mm
Safe Working Load	50 - 230kg		-

### WARRANTY

- Foam: 5 Years
- Pump and Cover: 2 Years

### COMPLIANCE

- Safe Working Load Verified: AS/NZ 2282
- Durability + Performance: ISO 3385
- Flame Retardant Foam + Covers: AS/NZ 4088.1 Cribs 5
- TGA: LifeComfort Mattresses are registered in the ARTG, AUST R ARTG 288486

### USER MANUAL

- Hybrid Mattress Systems:  
[https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/aspire\\_hybrid\\_mattress\\_user\\_manual.pdf](https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/aspire_hybrid_mattress_user_manual.pdf)

## MAINTENANCE

### CLEANING

- To ensure all infection control protocols are strictly adhered to, it is extremely important to follow the below steps to keep the Aspire LifeComfort Hybrid Mattress System 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

## MAINTENANCE AND STORAGE

- To ensure longevity of your Aspire Lifecomfort Hybrid Mattress System, 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 cells by unplugging mattress pump from hose
- Store pump hose in storage pocket at FOOT end of mattress
- Secure and tighten mattress straps under mattress to prevent damage
- Store mattress in dry and cool area when not in use
- Store pump in dry and cool area when not in use

## SUPPORTING EVIDENCE

- Hybrid Support Surfaces Made Easy; Wounds International | May 2015  
<https://www.woundsinternational.com/uploads/resources/9ae31c26eb2a3aebdee63dc0cdbad6c4.pdf>
- Support surfaces for pressure ulcer prevention: A network meta-analysis Plos One, February 23, 2018, Chunhu Shi, Jo C. Dumville, Nicky Cullum: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0192707>
- Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. Emily Haesler (Ed.). Cambridge Media: Osborne Park, Western Australia; 2014; pp 118-128: <https://www.ehob.com/media/2018/04/prevention-and-treatment-of-pressure-ulcers-clinical-practice-guideline.pdf>
- Prevention and Treatment of Pressure Ulcers: Quick Reference Guide; 2014 pp27-29: <https://www.epuap.org/wp-content/uploads/2016/10/quick-reference-guide-digital-npuap-epuap-pppia-jan2016.pdf>
- Fact Sheet: Preventing pressure injuries and wound management: [https://www.safetyandquality.gov.au/sites/default/files/2020-10/fact\\_sheet\\_-\\_preventing\\_pressure\\_injuries\\_and\\_wound\\_management\\_oct\\_2020.pdf](https://www.safetyandquality.gov.au/sites/default/files/2020-10/fact_sheet_-_preventing_pressure_injuries_and_wound_management_oct_2020.pdf)

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## LINKS

- PART ONE: Information to guide pressure redistribution mattresses (PRM) selection; Spinal Outreach Team; Queensland Spinal Cord Injuries Service  
[https://www.health.qld.gov.au/\\_data/assets/pdf\\_file/0031/432877/mattress-trial-evaluation.pdf](https://www.health.qld.gov.au/_data/assets/pdf_file/0031/432877/mattress-trial-evaluation.pdf)
- Pressure Injury Toolkit For Spinal Cord Injury and Spina Bifida Bed positioning to remove pressure from the wound and protect other at-risk areas; NSW Government and Agency for Clinical Innovation  
<https://aci.health.nsw.gov.au/networks/spinal-cord-injury/pi-toolkit/management/address-causative-and-contributing-factors/bed-positioning>

- Best Practice guidelines:  
[https://aci.health.nsw.gov.au/\\_data/assets/pdf\\_file/0005/214925/Spinal-Cord-Injury-Spina-Bifida-Model-of-Care.pdf](https://aci.health.nsw.gov.au/_data/assets/pdf_file/0005/214925/Spinal-Cord-Injury-Spina-Bifida-Model-of-Care.pdf)
- EPUAP Pressure Injury Prevention App:  
<https://www.epuap.org/news/the-first-official-pressure-injury-prevention-and-treatment-quick-reference-guide-mobile-app/>
- SWEP Bed, Mattress and Bed Equipment Assessment Tool:  
[https://swep.bhs.org.au/files/376/Bed\\_Mattress\\_and\\_Bed\\_Equipment\\_Assessment\\_Tool\\_Printable\\_version.docx](https://swep.bhs.org.au/files/376/Bed_Mattress_and_Bed_Equipment_Assessment_Tool_Printable_version.docx)

## AIDACARE KNOWLEDGE HUB

- Aidacare Website Link:  
<https://www.aidacare.com.au/products/bedroom/mattresses/pressure-care-alternating-air-mattresses/aspire-lifecomfort-hybrid-comfort-mattress/>
- PDF Library:  
Hybrid Mattress User Manual:  
[https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/aspire\\_hybrid\\_mattress\\_user\\_manual.pdf](https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/aspire_hybrid_mattress_user_manual.pdf)
- Aspire LIFECOMFORT Foam Mattresses:  
<https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/lifecomfort-mattress-range-brochure.pdf>
- Aspire Pressure Care Solutions for Hospital Environments:  
<https://www.aidacare.com.au/globalassets/knowledge/resources-page/aspire/aspire-acute-pressure-care-solutions.pdf>