PRESSURE INJURY PREVENTION

AtmosAir Velaris®

Adaptable Alternating Pressure System

EMPOWERING MOVEMENT

Pressure injuries are a serious global healthcare challenge

Pressure Injuries (PI) are one of the most common and devastating complications of immobility, associated with higher mortality rates, longer hospital stays and costly treatment[1].

International pressure injury prevalence rates are estimated to be:

In acute care[2–4]
5–27%

In long-term acute care[4]
~27%

In long-term care[5]
3–32%

Timely intervention is key

Under certain conditions PIs can begin to develop in a matter of minutes to hours[1,6].

That is why once an individual's PI risk is assessed and identified, prescribing the right intervention needs to be simple and straightforward. However, this is often not the case.

- A patient's risk profile can fluctuate throughout their journey of care
- Securing the right support surface can be complex and time consuming
- It can be difficult to predict the type and number of surfaces needed
- Switching support surfaces can require complex patient transfer, cleaning, disinfecting and management

1. Gefen A (2018) The future of pressure ulcer prevention is here: Detecting and targeting inflammation early. EWMA Journal 2018, 19(2):7-13. **2.** Li Z, Lin F, Thalib L, Chaboyer W. Global prevalence and incidence of pressure injuries in hospitalised adult patients: A systematic review and meta-analysis. Int J Nurs Stud. 2020 May. **3.** Moore Z, Avsar P, Conaty L, Moore D.H, Patton D, & O'Connor T (2019) The prevalence of pressure ulcers in Europe, what does the European data tell us? Journal of Wound Care. **4.** Berlowitz D, Lukas CV, Parker V, Niederhauser A, Silver J, Logan Cet al. Preventing pressure ulcers in hospitals: a toolkit for improving quality of care [Internet]. Rockville (MD): Agency for Healthcare Research and Quality; 2014 [cited 2018 Oct 2]. **5.** Anthony, D. M., Alosoumi, D., and Safari, R. (2019). 'Prevalence of pressure ulcers in long term care: A global review', Journal of Wound Care, 28(11), pp. 1-7. DOI: 10.12968/jowc.2019.28.11.702. **6.** Gefen, A (2008). How much time does it take to get a pressure ulcer? Integrated evidence from human, animal and invitro studies. Ostomy Wound Manage. 2008b; 54(10): 26-8,30-5. 6. Gefen, A (2008). How much time does it take to get a pressure ulcer? Integrated evidence from human, animal and invitro studies. Ostomy Wound Manage. 2008b; 54(10): 26-8,30-5.

Introducing AtmosAir Velaris®

AtmosAir Velaris is designed to meet the time-critical challenges of Pressure Injury (PI) prevention.

When used as a reactive surface, the Velaris uses **ARM® (Air Redistribution Module)** technology to constantly maintain a predefined level of pressure throughout the mattress. With the pump attached, it uses **AltoVac® vacuum technology** to deliver alternating pressure therapy that is capable of full pressure offloading, including from the vulnerable heel and sacral areas.

Adapting between the two modes is instant: Simply attach and turn on the pump to deliver alternating therapy. Switch off the pump, and it reverts back to reactive pressure redistribution.

This allows you to deliver the appropriate therapy for **most PI risk profiles**, from low to high risk, without having to change support surfaces, and the majority of patients can use one support surface throughout their stay.

We call this a **One Surface Strategy**, delivering high pressure redistribution or pressure offloading performance and supporting best practice in pressure injury prevention – all while saving time and effort for your care staff and facility managers. **Because time is everything.**

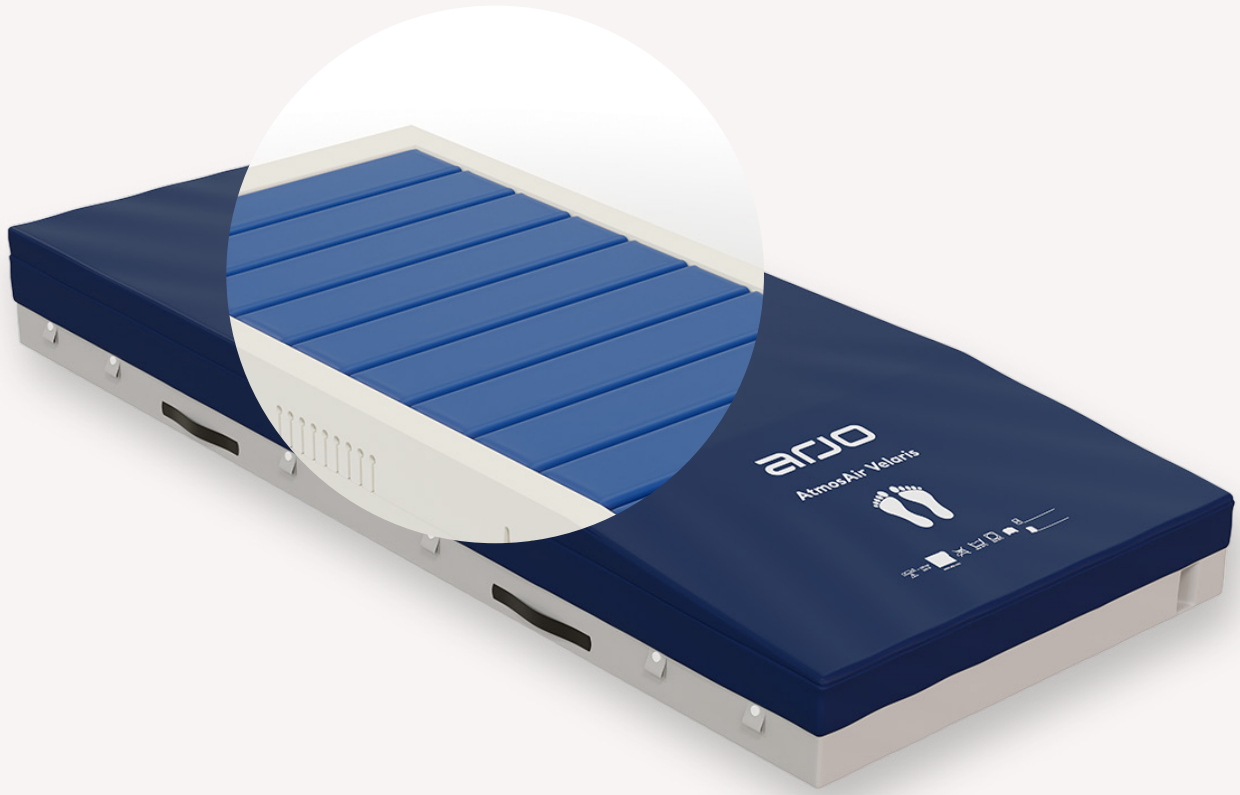
Effective pressure redistribution in reactive mode

Instantly step therapy up or down

Full pressure offloading in active mode

Because time is everything

Effective pressure redistribution in reactive mode



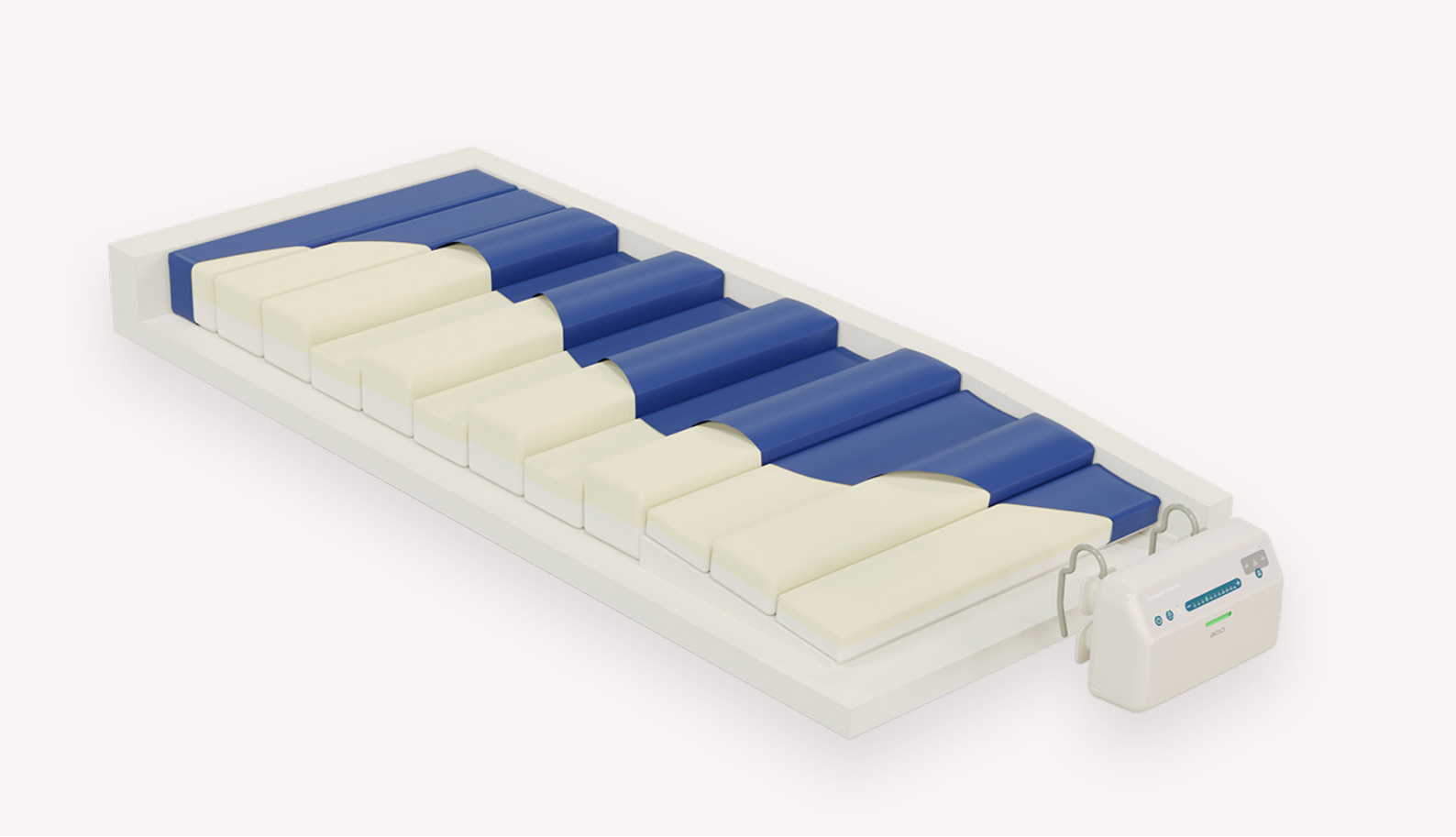
Reactive pressure redistribution with ARM®
Air Redistribution Module (ARM) redistributes air between cells to maintain predefined pressure levels throughout the mattress.

Firm foam permeter
Provides support for getting in and out of bed.

6° heel slope
Designed to enhance pressure redistribution from the vulnerable heel area.

Covers designed for infection control
Available in either Dartex Reliant or Premium Covers, both featuring welded seams and handles, cable management loops, watershed flap over the zipper, and 360° zip allowing complete removal of top cover for ease of cleaning and disinfection

Full pressure offloading in active mode



Foam-filled air cells
Two layers of foam are built into each air cell, offering comfort without compromising therapy.

Active cells extend all the way to the sloped heel zone, further enhancing pressure offloading from the heels.

The top two cells do not inflate nor deflate during active therapy, in order to maintain comfort under the patient's head.

Integrated microclimate solution
The AtmosAir Velaris pump has a dedicated port for powering our range of Skin IQ® microclimate managing coverlets (optional).

Active alternating therapy with AltoVac®
Achieves full pressure offloading at the vulnerable sacral and heel regions[7].

QuietConcept™
Silent pump operation at 19 dB(A)[8].

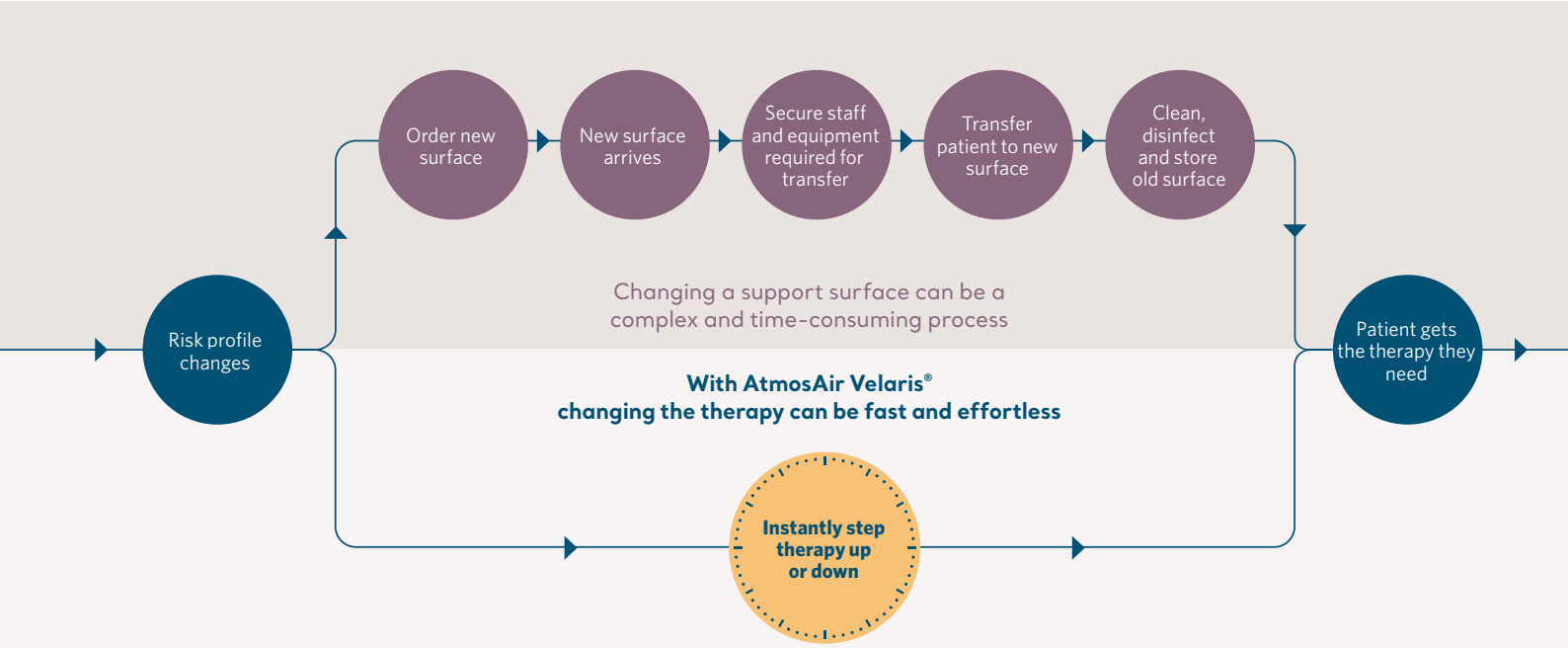
Automatic dimming LEDs
Pump lights automatically dim when built-in sensors detect dark ambience.

7. Clark M. Comparative Testing of Interface Pressure Performance of Seven Hybrid Surface Technologies Using a Weighted Mannequin. 2021. Arjo whitepaper.
8. Arjo data on file, Hummingbird – External Sound Verification, 100122967.

Designed to make your work flow

With AtmosAir Velaris, you can instantly adapt between active and reactive therapy without the need to change the support surface.

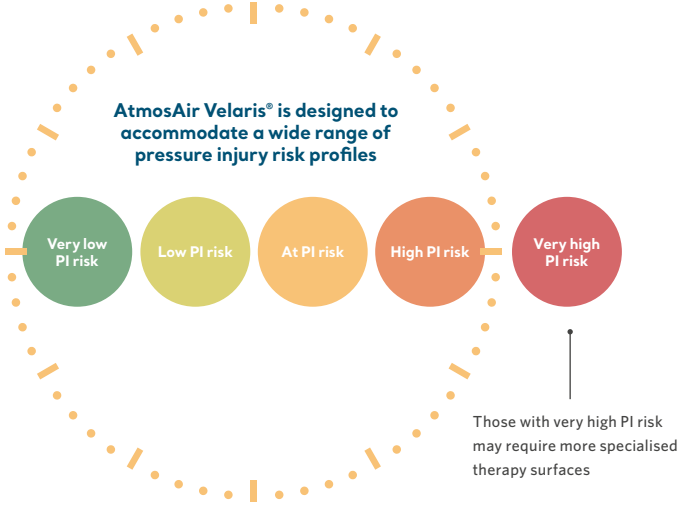
For **caregivers**, this can mean freeing up more time for vital care tasks. For **facility managers**, it means simplified inventory management. For the care facility as a whole, provides a cost effective solution by streamlining workflows, and supporting best practices that can reduce the occurrence of hospital acquired pressure injuries.



Designed to enable a One Surface Strategy

AtmosAir Velaris enables you to deliver the appropriate therapy for **most pressure injury risk profiles**, from low to high risk, without having to change support surfaces. This also means the majority of patients can use one support surface throughout their stay.

We call this a **One Surface Strategy**, a system that supports streamlined care protocols without compromising therapy or patient comfort.



Designed to support comfort without compromising therapy

The AtmosAir Velaris is designed to support the comfort, rest and recovery of your patients, but without compromising its pressure redistributing performance.

Each of the twelve air cells are filled with a top layer of visco-elastic (memory) foam and a base layer of firm foam, which offers comfort whilst eliminating the need for an additional foam layer between the patient and air cells, which can dampen the effects of active or reactive therapy.

In active mode, the **slow and controlled movement** of the AltoVac alternating therapy combines **full pressure offloading with low peak pressures**[9,10].

QuietConcept™ technology limits pump operation sound levels to just 19 dB(A)[8], while the pump's **LED lights automatically dim** when dark ambient lighting is detected.

AtmosAir Velaris is suitable for all care settings and is a Dementia Design Accredited Product with a 1A rating.

dsdc
Dementia Design Accredited Product

DSDC Product Accreditation Rating Class 1A

The Dementia Services Development Centre at the University of Stirling have undertaken a review of this product and have rated its design in relation to dementia design principles and its usability within a dementia-inclusive environment. For ease of identification, the suitability of the product is classified by number with corresponding explanation of use, within the ratings key provided.

The DSDC Accredited Product logo is awarded on the merit of the individual product and colour-way. This accreditation does not merit the manufacture or final application of the product. Whilst every endeavour has made to ensure the ratings are reflective of the products suitability and applied use at the time of print, DSDC cannot be held responsible for the application of the final product, its performance or its interface with other products or finishes. For an environment to be considered 'dementia-inclusive' or 'dementia-friendly' careful consideration must be given to the specification of adjoining finishes, their performance specification (for example light reflectance value (LRV), slip resistance and use of pattern) and their suitability for their intended use.

9. Arjo data on file, Hummingbird - Active Therapy - Test Report, 100122781. **10.** Arjo data on file, Hummingbird - Reactive Therapy - Test Report, 100122780.

AtmosAir Velaris® range

The AtmosAir Velaris range includes Standard and Plus size mattresses, offering active or reactive therapy for patients weighing up to 454 kg, as well as a reactive Stretcher Trolley Mattress and Seat Cushion.

AtmosAir Velaris Standard Mattress

AtmosAir Velaris Plus Mattress (SWL 454 kg)

AtmosAir Velaris Stretcher Trolley (ST) Mattress

AtmosAir Velaris Seat Cushion

●	●	●	●	**Reactive pressure redistribution**
●	●			**Active therapy when powered with Velaris pump**

AtmosAir Velaris Introduction video

AtmosAir Velaris Demonstration video

At Arjo, we believe that empowering movement within healthcare environments is essential to quality care. Our products and solutions are designed to promote a safe and dignified experience through patient handling, medical beds, personal hygiene, disinfection, diagnostics, and the prevention of pressure injuries and venous thromboembolism. With over 6800 people worldwide and over 60 years caring for patients and healthcare professionals, we are committed to driving healthier outcomes for people facing mobility challenges.

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