



AER Magna Bariatric Mattress



A Unique Width-Adjustable Surface
Optimising Pressure Area Care

medstrom⁺
Improved Patient Outcomes

Support surface conundrum

Currently, bariatric mattress selection often requires compromise on either comfort or practicality. Mattresses that are too small in width can be uncomfortable for the plus-size patient and make repositioning for caregivers more challenging.

Equally, wider mattresses can be tricky to store and transport through hospital doors may be difficult. Caregivers may stretch to reach patients on a wider mattress, increasing the risk of injury.

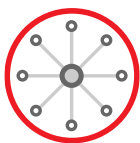
Clinical challenges



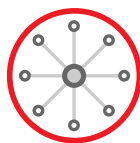
In 2022 to 2023, 64% of adults aged 18 years and over in England were estimated to be overweight or living with obesity.¹



Some mattresses require clinicians to weigh the patient in order to correctly set mattress pressure. But putting the focus on patient weight can stir up feelings of embarrassment and humiliation.⁵



Caregivers are at greater risk of work-related musculoskeletal disorders when working with patients who are overweight.²



Hospital infrastructure can be a barrier. It can be difficult to move larger bariatric equipment through narrow doorways and lift entrances, reducing access to suitable bed spaces.



An analysis of plus-size patient experiences in healthcare identified weight stigma, stereotyping, treatment avoidance and feelings of powerlessness as key themes for this patient group.^{4,5}





A higher skin-to-weight ratio for the plus-size patient affects skin physiology.¹⁰ As a result, patients living with obesity are at greater risk of pressure ulcer occurrence.¹¹

Did You Know?

One study at a 761-bed hospital found that plus-size patients equalled <10% of the patient population, yet ~30% of staff injuries (patient handling related) were linked with plus-size patients. Turning and repositioning the patient in bed accounted for 31% of the injuries incurred.³





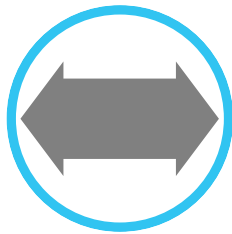
One combination, 
a universal solution

A solution to fit the patient

Medstrom's experience and clinical focus in the provision of plus-size care means that we understand the unique challenges that occur when caring for this patient group. Equally, we believe that parity of care is especially important, and that patients should have access to the same high level of treatment, regardless of size or shape.

Prioritising patient dignity via one unique solution

In response to these challenges, we are pleased to expand our range of bariatric equipment with the AER Magna, a width-adjustable dynamic air mattress. Designed to work in harmony with adjustable beds such as the Versatech 1100, the AER Magna offers a solution that's easy to move and handle, while maintaining effective protection against pressure ulcers.



Width-adjustable from
90cm/105cm/120cm



Three operational modes offer
ultimate protection against
pressure ulcers

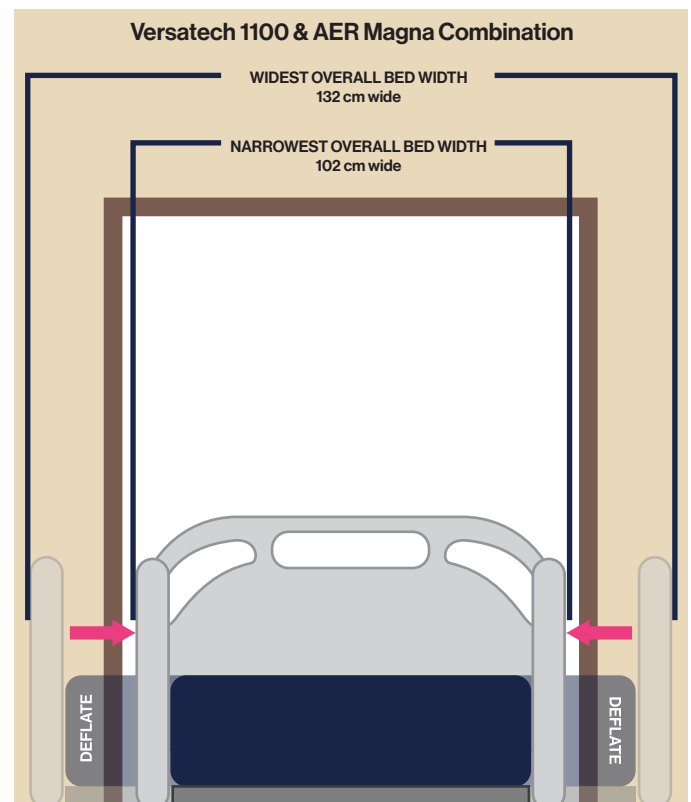


Enhanced patient experience
and dignity maintained

Versatility in situ

Finding suitable bed spaces for plus-size patients can be a challenge. A study of hospitals in the South West of England reported that only around 50% had rooms available that were specifically designed for patients with obesity.⁶

Hospital design guidelines indicate that doorway openings to patient bedrooms should have a minimum width of 1400mm, with patient bed lifts having the same clear door-opening width of 1400mm.^{7,8} But older hospital facilities may not be compliant with these recommendations. Narrow doorways and reduced turning spaces can make moving larger equipment more of a challenge.





Complementary solutions

The AER Magna has been designed to work in harmony with adjustable beds such as the Versatech 1100 to provide a bed and mattress combination that can flex around the needs of both the patient and hospital.

The width of the mattress can be adjusted via quick connectors to inflate or deflate the bolsters on each length of the bed for:

- Easier transport
- Less staff required for bed movement
- Improved access to ward/theatre spaces



Safety enhancements

Plus-size patient handling can put nurses at increased risk of injury.²

The AER Magna can be quickly reduced in size by deflating one or both of the bolsters. This allows nurses to get closer to the patient for caregiving procedures, preventing them from stretching over to the patient and the associated risk of harm.

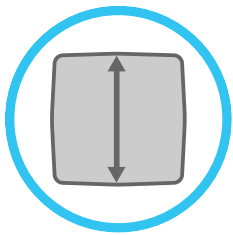
Effective mobilisation

Mobilisation from dynamic mattresses can be difficult. The inflatable bolsters in the AER Magna serve as a useful mobilisation tool. In combination with the MAX inflate setting, the bolsters provide a stable surface for a safe exit from the bed.



Ultimate protection against pressure ulcers

Patients with obesity are at increased risk of skin breakdown and pressure damage. And higher weight is often associated with increased predisposition to comorbidities such as diabetes and vascular disease, further increasing risk.⁹



Cell shape & depth

The AER Magna's 20 cubed air cells individually pressure adjust to facilitate a truly bespoke immersion profile, maximising the surface area in contact with the patient. The 10" cell depth provides ample space for the patient to 'sink' into the mattress, increasing immersion and surface area while ensuring they are still properly supported.



Variety of operational modes

The AER Magna offers three operational modes: Continuous Low Pressure, Alternating Pressure and a MAX Inflate setting provide superior clinical choice and support.



Microclimate management

Patients living with obesity are more likely to struggle with thermoregulation, leading to increased sweating. But moist skin has a higher coefficient of friction than dry skin, increasing pressure ulcer risk for these patients.^{10,11} The AER Magna features a micro air loss system with a number of small ventilation holes in the sacrum cells. These holes assist in microclimate management by releasing a small amount of air, helping to remove moisture and reduce pressure ulcer risk while providing a gentle cooling sensation for the patient.





Defining dignity for plus-size patients

For over a decade, Medstrom has transformed the rental market by providing flexible, responsive and cost-effective solutions.

Our philosophy is and always will be to deliver a service tailored to the needs of our customers and patients. This includes Medstrom Select, our unique **one-stop-shop bariatric rental service**.



Did you know, Medstrom's Clinical Advisors and Product Specialists tailor equipment packages based on a **patient's level of mobility**? Ranging from mobile through to highly dependent patients, this ensures that **the right equipment is available for the right patient at the right time**.



A choice of appropriate and clinically focused equipment solutions.



Nationwide delivery and rapid response for installations and technical support from qualified, DBS-checked technicians.



24/7/365 clinical support and training via Clinical Advisors and Product Specialists.



Accurate and ethical invoicing allows you to take control of your spending.

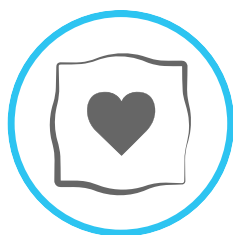


KPI reports to provide a transparent and collaborative partnership.

Patient dignity

No caregiver wants a patient to feel uncomfortable in a health care setting. But many patients who have obesity have reported feelings of humiliation, mistrust and stress, resulting in treatment avoidance and reduced compliance.^{4,5}

It's a vicious circle, in turn leading to poorer outcomes and a negative experience for both patient and caregiver.



Maintained dignity

As a one-mattress-fits-all solution, the AER Magna doesn't discriminate. Mattress width can be easily adjusted on the spot for enhanced patient comfort and dignity protection.



Automatic pressure adjustment

Many patients living with obesity feel embarrassed about being weighed.⁴ Unlike some bariatric dynamic mattresses, the AER Magna does not require caregivers to input the patient's weight in order to manually set the therapeutic profile. Instead, the mattress can automatically determine the best pressure setting once the patient is on the mattress for discreet, personalised therapy.



Customisable comfort

The AER Magna offers 10 comfort setting adjustments within a therapeutic window. This allows clinicians to accommodate patient preference for improved comfort, compliance and pain management while maintaining ultimate skin protection.



Supporting plus-size patient hygiene

The latest product to join the Medstrom Select range, ECO Mist is the future of plus-size patient hygiene. Providing a targeted supply of water at a consistent warm temperature, ECO Mist allows for easy cleaning — even for hair and hard-to-reach areas such as underneath skin folds.



Saving caregivers time. Each wash takes only 10-15 minutes, reducing bathing times by up to 65%.^{12,13,14,15,16}



Improved patient experience. The hydro-molecular technology aids the removal of stubborn stains, without the need for harsh rubbing or scrubbing motions on the skin.



Environmental benefits. ECO Mist uses up to 95% less water than a traditional bed bath.



Protecting patient dignity. Patients may also use ECO Mist to wash themselves, protecting their dignity and involving them in their own care.

Scan the QR to hear from patients on how the ECO Mist has helped to support a more dignified patient washing experience:



Technical Specification	
Mattress widths (inflated): 90/105/120cm	Control unit dimensions: 34cm (W) x 24.4cm (H) x 12.5cm (D)
Mattress length (inflated): 200cm	Control unit weight: 3.5kg
Mattress depth (inflated): 25cm	Minimum patient weight: 40kg
Mattress weight: 12kg	Maximum patient weight: 455kg (71st)

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