

Serene Air

Improving pressure injury prevention and nursing workflow for post-acute care delivery

Over 60% of post-acute patients with pressure injuries do not receive proper wound care, leading to persistent high pressure injury risk and incident rate.⁶ Research focusing on US long-term care facilities found 8% of skilled nursing facilities (SNF) patients are high-risk long-stay residents with pressure injuries, with 41% not discharged home, 30% requiring rehospitalization, and 39% deceased during stay.¹⁻³

More than 1 in 10 nursing facility residents develop pressure injuries. Improper care results in late-stage pressure injuries, multiple readmissions, and hospitalization by up to 12 days. The broad range of special needs, impairments, complications, and age-related health risks significantly increase pressure injury risks, length of stay, and nursing complications.⁴⁻⁶

Serene Air improves caregiving workload and pressure injury prevention for post-acute care patients by delivering a gentler, softer pressure redistribution to improve blood circulation. High airflow ventilates and prevents heat and moisture buildup between the skin and the surface, ensuring proper skin microclimate and reducing pressure injury risk.



Pulsation therapy, gentler pressure redistribution

Hypersensitive patients may fear the discomfort from repositioning and alternating pressure. Clinical guideline suggests a slow, gentle, yet firm pressing to prevent tissue damage while improving blood circulation and comfort during patient recovery and sleep.

Air cells + foam padding improve safety and comfort

Clinical Guideline advocates for bottoming out prevention to improve recovery and comfort. Serene Air combines air cells with foam padding and seat inflation fine-tuning to optimize cushioning, pressure relief, comfort, and safety during sitting.

True low air loss reduces skin damage and pressure injury risks

Clinical guideline recommends active airflow management to dissipate moisture and heat buildup on the skin. Serene Air's blower (>1,300 lpm) provides reliable true low air loss to prevent the development of new and worsening of existing pressure injuries.

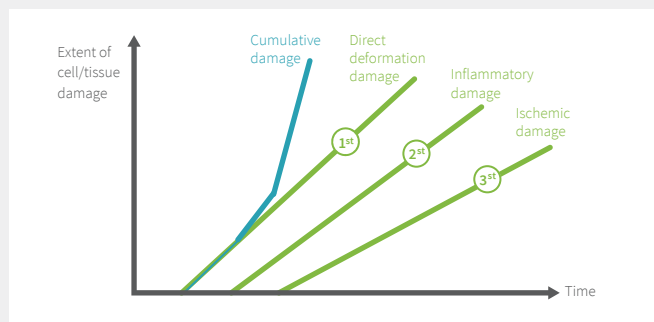
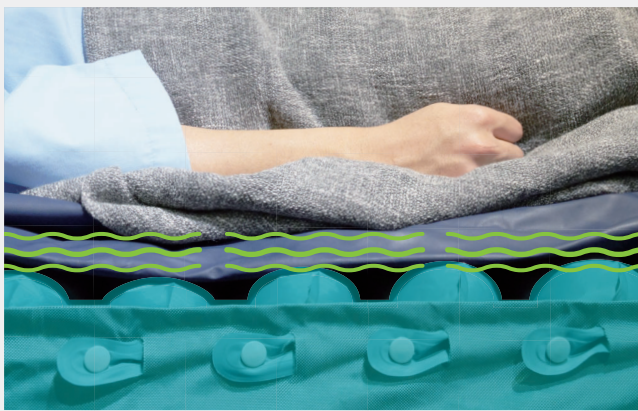
Fully inflates under 2 minutes, accelerating care delivery

Blower system fully inflates the air mattress in under 2 minutes, minimizing prep time and optimizing treatment and patient care efficiency. Firm air cells paired with foam pad provide a stable surface for daily activities like rehabilitation, recreation, and more.

Clinical Application



Lower trunk and heel pressure injuries are common for immobile patients and extend the length of stay. The superficial wounds on the bony prominences quickly expand into subcutaneous tissues to cause irreversible damage to the muscle, tendons, and bones.^{4,6}

Immobility, poor tissue perfusion and oxygenation, hemodynamic instability, and hypersensitivity in severely diseased or ill patients (such as postoperative or burn patients) add additional risk factors and workflow complications. The clinical practice guideline recommends a slow, gentle, yet firm pressing (similar to massage) to improve blood circulation, prevent potential tissue damage, and reduce pressure injury risks.^{7,8}



Each damage event contributes to the cumulative cell and tissue damage, which develops in an escalated manner as a result of the added contributions of the events.^{7,8}

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8. Falloon, S. S., Abbas, S., Stridfeldt, C., & Cottenden, A. (2018). The Impact of Microclimate on Skin Health With Absorbent Incontinence Product Use. *Journal of Wound, Ostomy and Continence Nursing*, 45(4), 341-348. doi:10.1097/won.0000000000000449

Specifications	Serene Air
Pump	
	Dimension 31.2 x 26 x 16 cm / 12.3 x 10.2 x 6.3 in
	Weight 5 kg / 11 lbs
	Case material Fire Retardant ABS
	Supply voltage 110 - 120 V 60 Hz, 4.5 A
	Operating cycle 5/ 10 / 15 / 20 minutes
Mattress	
	Mattress type 20 cm / 8 in replacement + 5 cm / 2 in foam
	Dimension 200 x 90 / 107 / 122 x 20 cm (mattress) + 5 cm (foam) 78.7 x 36 / 42 / 48 x 8 in (mattress) + 2 in foam (foam)
	Cell height 20 cm / 8 in cells
	Weight 7.5 / 8.5 / 9.5 kg ; 16.5 / 18.8 / 21 lbs
	Top cover material 4-way stretch PU
	Cell material Nylon / PU
	Maximum patient weight 180 / 300 / 420 kg ; 397 / 661 / 926 lbs
	Flame retardant standards EN597-1 ; EN597-2

Pump: water resistant standards (IP21); Mattress: flame retardant standards (EN597-1, EN597-2), RoHS, WEEE; HCPCS code: E0277