



PRESSURE INJURY PREVENTION

Nimbus® Range

Alternating mattress replacement system



Pressure redistribution and comfort

In clinical use for more than 20 years and used across all care environments, Nimbus Alternating Mattress Replacement Systems are proven to be clinically effective and cost efficient¹⁻⁸

The Nimbus mattress replacement range comprises of 2 systems; the Nimbus 4 and Nimbus Professional. Both systems provide effective active⁹ pressure redistribution (alternating therapy) combined with automatic adjustment to the weight, size and position of the individual.

The Nimbus range is suitable for the treatment of all categories⁹ of pressure injuries when combined with an individualised, comprehensive pressure injury protocol.

Nimbus range pump features

The Nimbus pump powers both the Nimbus 4 and Nimbus Professional alternating mattress replacement systems, offering a choice of functionality to meet the needs of modern healthcare facilities.

In alternating mode the pressure is periodically redistributed by inflating and deflating alternate cells (“active therapy”) so that pressure on the body is held for as long as possible below thresholds similar to arteriolar, capillary and venule operating pressures.^{10, 11, 12} The therapy is designed to mimic the effects of regular spontaneous movement thus allowing maximum tissue perfusion. Clinical studies consistently demonstrate excellent outcomes for the most vulnerable patients or those with existing wounds.^{1-8, 13-15}

A second, non-alternating or “reactive”⁹ mode gently supports the patient across all cells simultaneously. This increased contact area effectively redistributes and lowers pressure across the body.¹²

The quiet and vibration-free pump interacts with an encapsulated Auto-Matt sensor pad within the mattress to enable automatic pressure adjustment in response to individual body mass distribution and patient movement.



AUDIBLE AND VISUAL ALARMS

The pump includes audible and visual alarms, activating only when genuine intervention is needed for Power Fail, High or Low Pressure and Pump Fault conditions.



COMFORT CONTROL

For additional patient comfort, minor adjustments to inflation pressures can be made using a comfort control dial, without affecting therapeutic performance.¹⁶



INFECTION PREVENTION

3 stage filtration provided by the bio-filter ensures only clean air is passed into the mattress.

Nimbus 4

The Nimbus 4 system combines automatic adjustment of cell pressures, Heelguard and Wound Valve Technology providing effective pressure redistribution and enhanced solutions to a wide range of patient management issues. The Nimbus 4 system provides clinical and cost effective outcomes.^{4, 8, 13}



Nimbus range mattress features



COVER

Vapour permeable and water resistant 2-way stretch cover offers pressure redistribution and comfort. This loose fitting top cover is attached to the mattress base by concealed zips to reduce ingress of unwanted fluids. The cover is also flame retardant, easy to clean and can be completely removed for laundering.



AUTO-MATT SENSOR PAD

The Auto-Matt sensor pad is designed to adjust cell pressures according to patient weight and positioning on the mattress.



ANTI-SINK MATTRESS DESIGN

The mattress is made up of 19 deep "figure of 8" designed cells to support patients up to 250 kg, providing active pressure redistribution for all patient types and all categories⁹ of tissue damage.



WOUND VALVE TECHNOLOGY

5 heel cells incorporate Wound Valve technology, allowing the carer to permanently off-load ("float") the vulnerable heel, for those patients with limb ischaemia or existing wounds.



CABLE MANAGEMENT

Reduces risk of injury to patient and/or carer by removing trailing cables.



TRANSPORT FACILITY

Seals air in the mattress for up to 12 hours, providing a uniform stable surface for patient transportation, moving and handling, nursing procedures and during periods of power failure.



HEELGUARD

Dedicated mattress zone where bottom 5 cells provide maximum pressure relief through use of unique "power down" straps, keeping pressure at the vulnerable heel lower for longer (Nimbus 4).



CPR FACILITY

A quick release, single handed operation, the CPR facility enables rapid air deflation for emergencies, short term physiotherapy, moving and handling or storage.

Product specifications

MATTRESS (THESE SPECIFICATIONS APPLY TO BOTH NIMBUS 4 AND NIMBUS PROFESSIONAL SYSTEMS)		
	Standard	Narrow
Length	2085 mm (82")	2085 mm (82")
Width	890 mm (35")	800 mm (31½")
Maximum height (at edges)	215 mm (8½")	215 mm (8½")
Cell height	203 mm (8") - inflated	203 mm (8") - inflated
Weight*	15.5 kg (34 lbs)	14.3 kg (31½ lbs)
Top cover material	Reliant or Premium	Reliant or Premium
Cell material	Polyurethane	Polyurethane
Maximum patient weight	250 kg (550 lbs)	250 kg (550 lbs)

* Nimbus 4: Standard vers. - 11.5 kg (25½ lbs). Narrow vers. - 10.3 kg (22¾ lbs)

PUMP	
Length	508 mm (20")
Height	220 mm (8¾")
Depth	100 mm (4")
Weight	5.7 kg (12½ lbs)
Supply voltage, frequency (UK)	230 VAC, 50Hz
Electrical rating	35 VA
External fuse rating	2 x T1AL 250V
Filters	All service replaceable
Operating cycle	10 minutes

TUBESET	
Length	1000 mm (39½")
Tube material	5-way moulded PVC
Tube connectors	Moulded nylon

ELECTRICAL SAFETY STANDARDS	
Complies with	EN 60601-1 / IEC 60601-1 ANSI/AAMI ES60601-1(2005)+AMD(2012) CAN/CSA-C22 No. 60601-1(2008)+(2014) Medical Equipment
Degree of protection against electric shock	Mains Connected - Class II Type BF
Degree of protection of ingress of liquids	IP21
Mode of operation	Continuous

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At Arjo, we are committed to improving the everyday lives of people affected by reduced mobility and age-related health challenges. With products and solutions that ensure ergonomic patient handling, personal hygiene, disinfection, diagnostics, and the effective prevention of pressure injury and venous thromboembolism, we help professionals across care environments to continually raise the standard of safe and dignified care. Everything we do, we do with people in mind.

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