VIRTUOSO

LINET

Virtue in Pressure Care. Dedicated to Recovery



3-cell alternating pressure mattress family

THE COMPLEXITY OF PRESSURE INJURIES

The extent of pressure injuries, particularly in intensive care units, is significant. Patients with pressure injuries often have complex healthcare needs that demand comprehensive treatment. This highlights the importance of a comprehensive approach, providing effective prevention strategies and ensuring high-quality care for pressure injuries.

The Virtuoso, equipped with a 3-cell alternating system and Zero Pressure solution, effectively supports pressure injury prevention for patients with complex needs, embodying

Virtue in Pressure Care and Dedication to Recovery.



27% of patients in intensive care suffer from pressure injuries.[1]



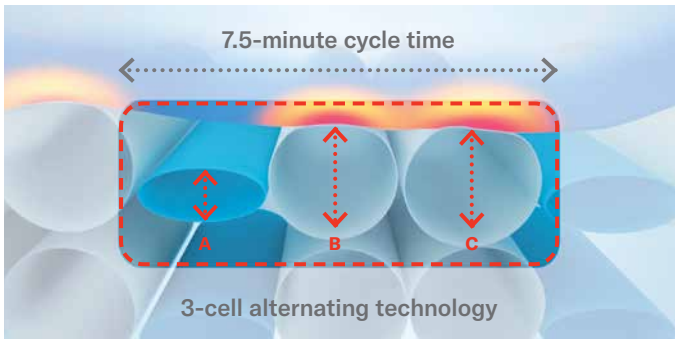
73% of pressure injuries are preventable.[2]

VIRTUOSO

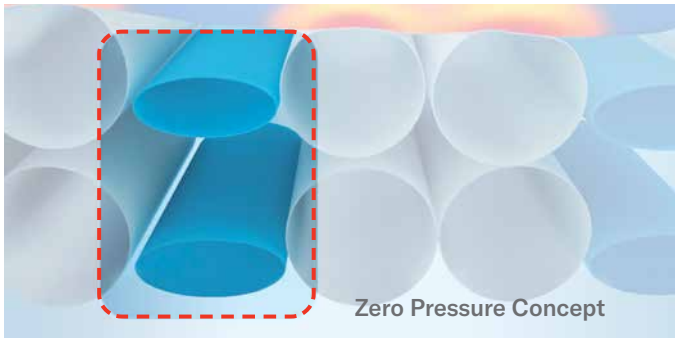
Virtue in Pressure Care. Dedicated to Recovery



SUPERIOR PRESSURE INJURY PREVENTION WITH ZERO PRESSURE



The 3-cell alternating system reduces pressure by simulating natural body movement with a 7.5-minute cycle.

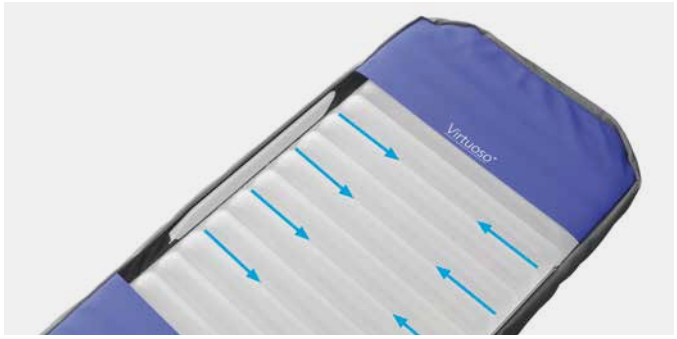


3-cell alternating technology creates Zero Pressure by removing pressure periodically under the body over the deflated cell.

PRECISION SUPPORT FOR COMPLEX PATIENT RECOVERY



Support for prone positioning is made easy via individual cell deflation.



Microclimate Maintenance provides support for natural body thermoregulation.

HIGH-PERFORMING ALTERNATION AT ANY CARE LEVEL



The Virtuoso range offers a wide variety of mattresses and support for 24-hour care with alternating seating cushions.

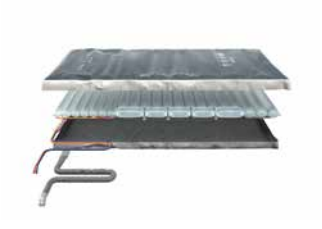


The single compressor, compatible with all Virtuoso products, provides efficiency for caregivers.

VIRTUOSO PORTFOLIO OVERVIEW

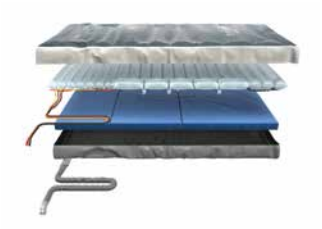
3-Cell Alternating Mattresses





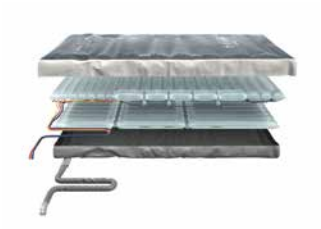
OVERLAY

Alternating overlay suitable for any mattress.



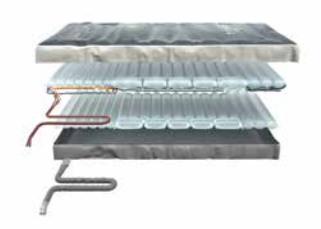
50

Alternating with foam core.



100

Alternating with static core.



200

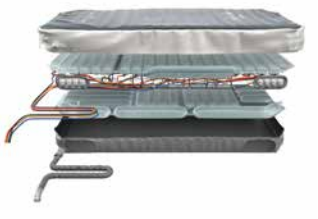
Fully alternating gold standard.

PATIENT ACUITY LEVEL

2-Cell Alternating Cushions







300

Head alternating with head & heel cells individually deflatable.



PRO

Fully alternating with all cells individually deflatable.



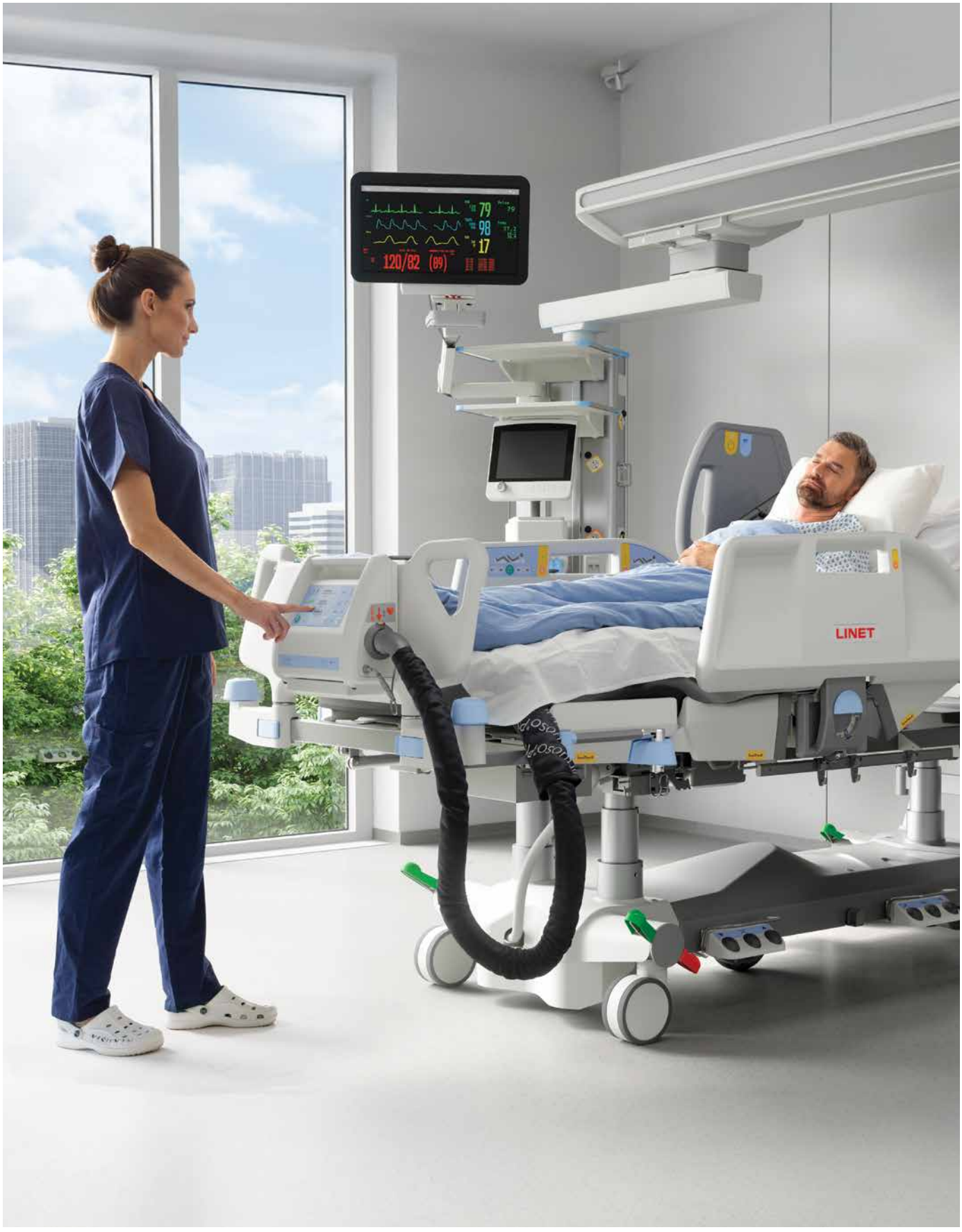
CUSHION OVERLAY

2-cell alternating overlay.



CUSHION

2-cell alternating overlay with foam core.


79
98
17
120/82
(89)
LINET

SOLUTIONS OVERVIEW

ENHANCED PATIENT OUTCOME



PRESSURE INJURY PREVENTION

The Virtuoso mattress supports effective pressure injury prevention thanks to its 3-cell alternating system and Zero Pressure solution.



SUPPORT PATIENT RECOVERY

The Virtuoso offers individual cell deflation and 24-hour care to support patient recovery.



PATIENT COMFORT AND SAFETY

Enhanced patient comfort and safety is provided by comfort pressure settings, cable management system, and support for heavier patients.

IMPROVED CAREGIVER & HOSPITAL WORKFLOW



SIMPLIFY CAREGIVER PROCEDURES

One universal compressor for all Virtuoso products helps to reduce the complexity of caregiver procedures.



HOSPITAL OPERATIONS EFFICIENCY

The integrated X-Ray sleeve option and available transport modes allow for easy and safe maintenance of the Virtuoso.



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

Efficient infection control is supported with easy mattress cleaning and inspection.

PRESSURE INJURY PREVENTION

THE CHALLENGE

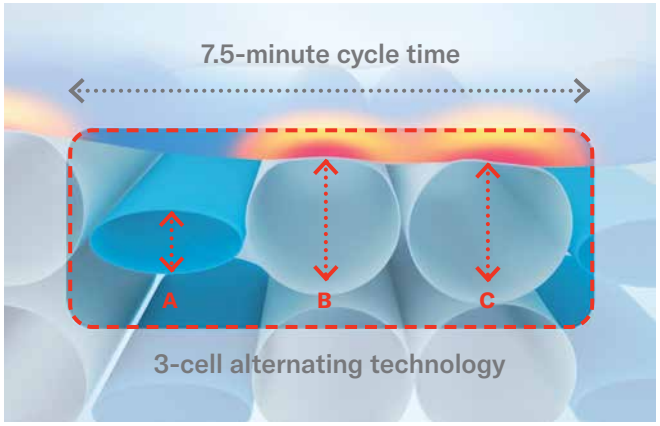
- The prevalence of HAPI is 27% in ICU[1] compared to acute care, where it is 6–18.5%.[23]
- Increased skin temperature and moisture increase the risk of skin breaking down.[3]
- Patients in ICU are at higher risk of developing pressure injuries.[4]
- 57% of patients who are nursed in the prone position develop pressure injuries.[5]



THE SOLUTION

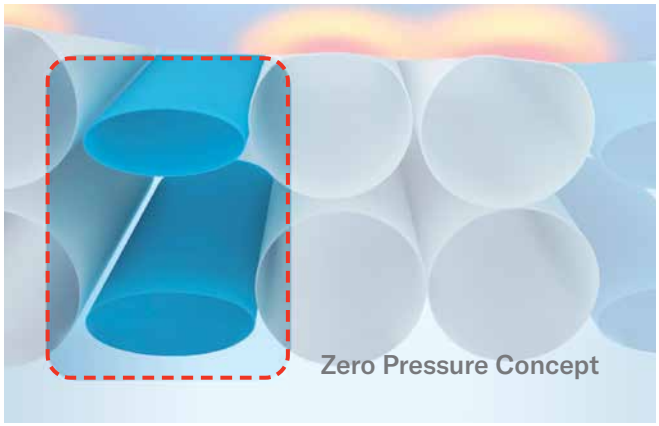
Zero Pressure offers up to 41.5% pressure relief in critical areas such as the scapula, sacrum, and heels in various patient positions.[24]

3-CELL ALTERNATING SYSTEM with 7.5 minute cycle



Deflates one cell at a time for safe, complete offloading without bottoming out, at an interval simulating natural body movement.

ZERO PRESSURE



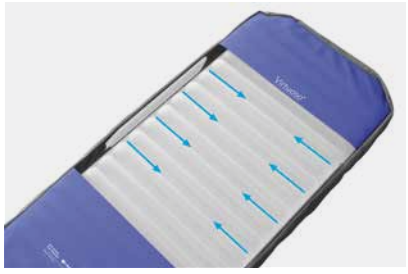
The 3-cell alternating technology creates Zero Pressure by removing pressure periodically under the body over the deflated cell.

PRONE POSITIONING



To support prone positioning of patients, individual cells can be deflated to offload pressure in vulnerable areas.

MICROCLIMATE MAINTENANCE (MCM)



Helps maintain the body's natural temperature by using the mattress airflow, optimizing skin temperature and moisture.

AUTOMATIC FOWLER BOOST

Prevents bottoming out by increasing air in the seating area when the backrest is raised.

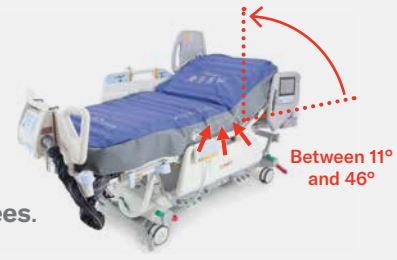
Single point

Inflates a steady flow of air when the backrest is raised **to 30 degrees**.



Linear

Continuously and gradually inflates air when the backrest is raised from **11 to 46 degrees**.



SUPPORT PATIENT RECOVERY

THE CHALLENGE

- Prolonged sitting increases the chance of pressure injuries developing. [8]
- 7.5 times more people on standard mattresses can develop pressure injuries compared with an alternating pressure air mattress. [7]

The most important part of pressure injury treatment includes **offloading** the pressure. [6]



THE SOLUTION

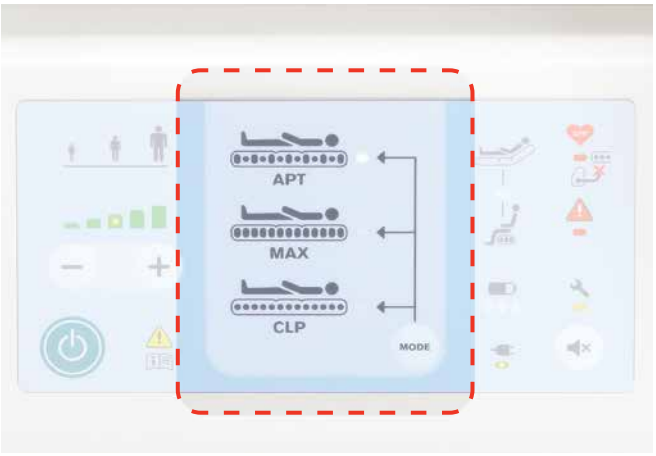
To support the offloading of pressure, individual cells can be deflated via valves on the side of the mattress.



A WIDE RANGE OF ACTIVE MODES

Available for different care needs.

- 3-cell alternating Alternating Pressure Therapy mode (APT)
- Constant Low-Pressure mode (CLP), and
- MAX inflate mode.



24-HOUR CARE

To support continuous 24-hour care, we offer compatible seating cushions.

Cushion Overlay with 2-cell alternating layer



Cushion with 2-cell alternating layer and foam core

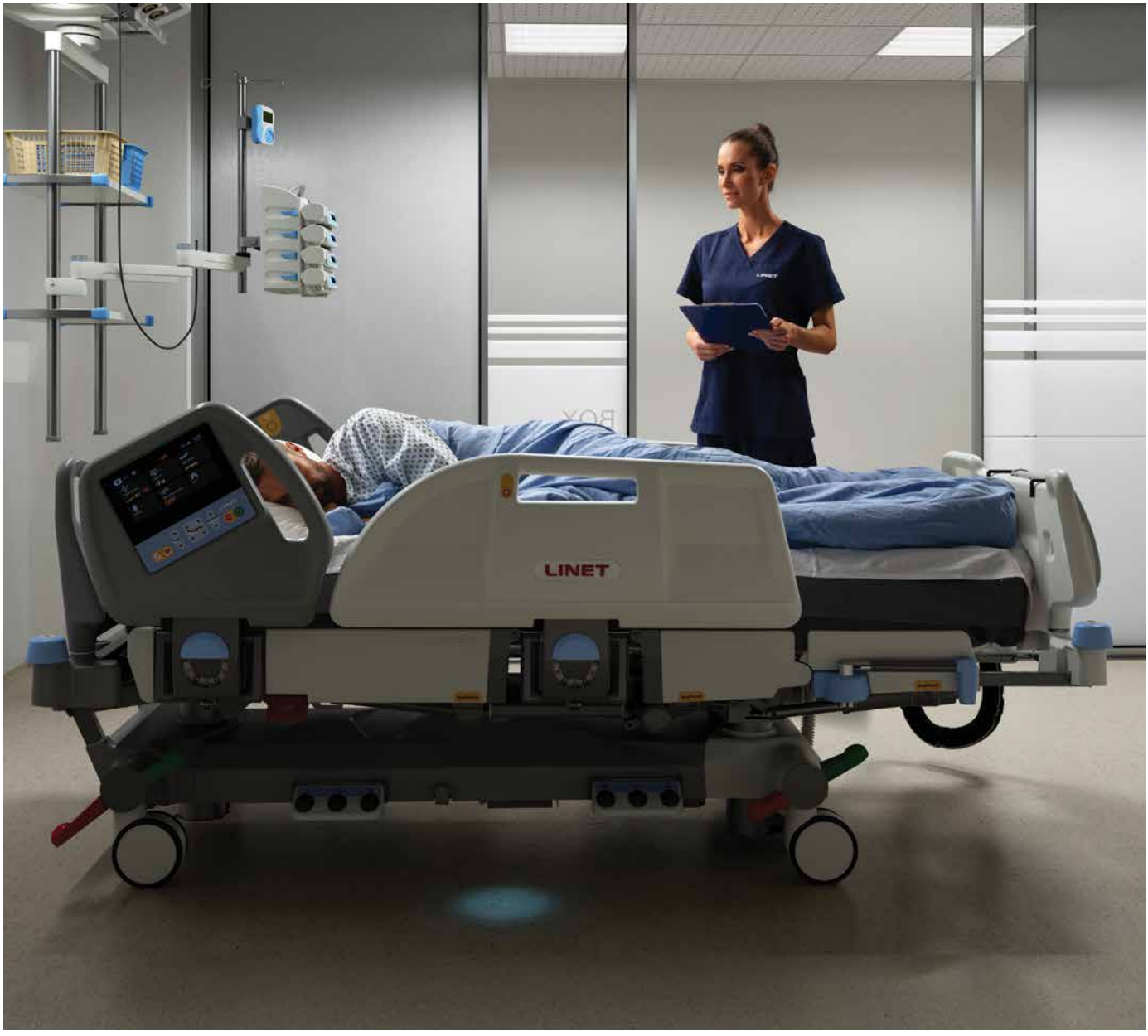


PATIENT COMFORT AND SAFETY

THE CHALLENGE

- In 2019–2020 there were over 1 million hospital admissions with obesity as a factor in United Kingdom. [9]
- Noise, constant movement and sinking into mattresses are factors that impact patient comfort. [10, 11]

85.5%
of falls happen unwitnessed. [12]



THE SOLUTION

Manual adjustment of comfort pressure settings can enhance patient comfort.



Caregivers can manually adjust the pressure settings based on the patient's weight to provide adequate support against 'bottoming out' and optimize comfort.

CABLE MANAGEMENT SYSTEM

Maximizes patient and caregiver safety.



SUPPORT FOR HEAVIER PATIENTS

With a maximum patient weight of up to 254 kg.



SAFETY LOCK BUTTON

Reduces the potential for accidental operation of the compressor.



SIMPLIFY CAREGIVER PROCEDURES

THE CHALLENGE

- 15.6% of nurses report burn-out [13] and 41% of caregivers suffer from lack of time. [14]
- Nurses are multitasking for 34% of the time. [15]
- In-hospital cardiac arrest is a medical emergency that occurs on a regular basis. [16]



THE SOLUTION

One universal compressor for the entire Virtuoso range and fast access to immediate CPR reduce complexity for caregiver procedures.





FAST ACCESS TO IMMEDIATE CPR

Functionality which rapidly deflates the mattress and provides a firm surface for chest compressions.

HOSPITAL OPERATIONS EFFICIENCY

THE CHALLENGE

- Critical care nurses are at high risk of developing work-related musculoskeletal disorders.[17]
- A chest X-Ray should be performed immediately after placement of invasive lines.[18]
- Moving patients within a hospital involves risks and operational challenges.[19, 20]



THE SOLUTION

The integrated X-Ray sleeve option and available transport modes allow for easy and safe maintenance of the Virtuoso.



X-RAY SLEEVE

The X-Ray sleeve is integrated into the cover and accessible from both sides, enabling easy X-Ray cassette placement and safer ergonomics.

* The patient's clinical presentation also needs to be considered when interpreting the X-ray images.



2 TRANSPORT MODES

Active, thanks to battery backup, supports continuous usage of therapeutical modes, while **passive** offers static pressure support under the patient.



REPAIR STRATEGY

The Virtuoso repair strategy supports cost efficiencies. No need to replace the full mattress for minor damage.

A WIDE RANGE OF COVERS

Provide versatile solutions to meet the individual needs of patients and caregivers.

Elite

Enhances patient comfort by **maintaining a favorable microclimate** through its high vapor permeability.



Endurance

Ensures support for caregivers and comfort for patients, offering **optimally balanced durability and permeability**.



Endurance Plus

Delivers reliable support for caregivers, providing **enhanced durability** for long-lasting performance.



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

THE CHALLENGE

- During inspection, 47% of covers need to be replaced due to damage or strikethrough. [21]
- In hospitals, 25% of mattresses are damaged and need replacing, increasing the risk of healthcare-associated infections. (HAIs) [21]

3.1–4.6 milion people
acquire an HAI in acute care hospitals in Europe every year. [22]



THE SOLUTION

The structure of the mattress provides easy mattress cleaning and disinfection.



360° ZIPPER

All mattress covers have **360° zippers** for full mattress access and **welded seams** to prevent liquid ingress.



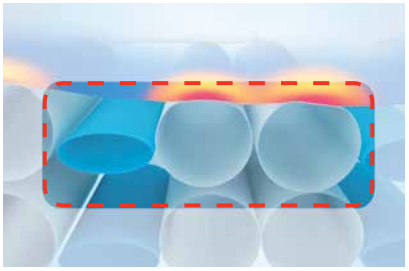
WHITE INTERIORS

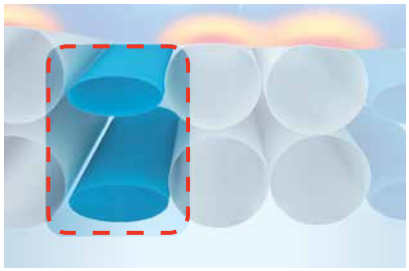
All cover options have white interiors to make mattress inspection easier.



KEY FEATURES OVERVIEW

The 3-cell alternating system offers high pressure relief by simulating natural body movement with a 7.5-minute cycle.





The zero pressure solution completely offloads pressure on one-third of the patient's body periodically.

Individual cell deflation supports prone positioning and reduces pressure in high-risk areas.

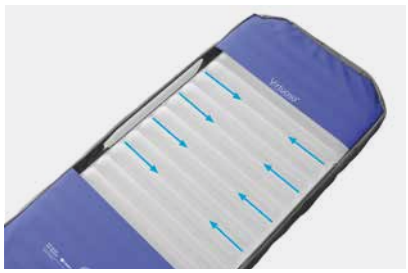




Automatic Fowler Boost to prevent bottoming out.

A wide choice for different care needs with APT, CLP and MAX modes.





Microclimate Maintenance provides support for natural body thermoregulation.

One compressor for all models provides efficiency for caregivers.





Cable management maximizes patient and caregiver safety.

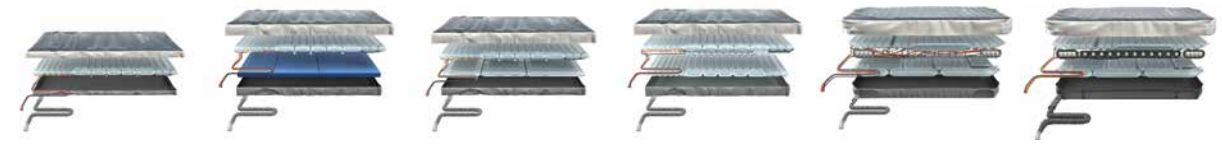
The X-Ray sleeve can be accessed from both sides of the mattress to support bedside imaging of patients.





24-hour care provided by 2-cell alternating seating cushions.

MATTRESS PORTFOLIO OVERVIEW



	Overlay	50	100	200	300	PRO
Zero pressure	✓	✓	✓	✓	✓	✓
Individual cell deflation	—	—	—	—	Head & Heel zone	All Cells
Automatic Fowler boost	—	Single point	Single point	Single point	Linear	Linear
Bottom Layer	—	Foam	Static Air	Alternating Air	Alternating Air	Alternating Air

PATIENT ACUITY LEVEL

TECHNICAL SPECIFICATION

VIRTUOSO CATEGORIES	Overlay	50	100	200	300	PRO	Cushion Overlay	Cushion
FEATURES								
Modes	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy, MAX, CLP*	Alternating Pressure Therapy	Alternating Pressure Therapy
Cycle Time	7.5 min	7.5 min	7.5 min	7.5 min	7.5 min	7.5 min	12 min	12 min
Active Transport (Battery)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Passive Transport	✓	✓	✓	✓	✓	✓	✓	✓
MCM **	✓	✓	✓	✓	✓	✓	—	—
MATTRESS DIMENSIONS								
Length (cm)	200	200	200	200	200	204	44	50
Width (cm)	86	86	86	86	90	90	46	44.5
Depth (cm)	11	17	17	19	23	23	7	14
Weight (kg)	6.5	12.5	8.5	10	12	13	4.9	5.5
ADDITIONAL PARAMETERS								
Maximum PW*** (kg)	180	200	210	210	254	254	127	127
Cover	Elite Endurance	Elite Endurance	Elite Endurance Endurance Plus	Elite Endurance Endurance Plus	Elite Endurance Endurance Plus	Elite Endurance Endurance Plus	Elite Cover	Elite Cover
Vapor Permeable, Waterproof and Stretch	✓	✓	✓	✓	✓	✓	✓	✓
X-Ray Sleeve	—	—	Optional	Optional	Optional	Optional	—	—
Zipper	360°	360°	360°	360°	360°	360°	270°	360°
Handles	✓	✓	✓	✓	✓	✓	—	—

* Constant Low Pressure ** Microclimate Maintenance *** Patient weight

SUPERIOR PRESSURE INJURY PREVENTION WITH ZERO PRESSURE

The Virtuoso mattress supports effective pressure injury prevention thanks to its 3-cell alternating system and Zero Pressure solution.



PRECISION SUPPORT FOR COMPLEX PATIENT RECOVERY

Easy prone positioning thanks to individual cell deflation, and Microclimate Maintenance for natural body thermoregulation are provided by the Virtuoso mattress range.



HIGH-PERFORMING ALTERNATION AT ANY CARE LEVEL

The Virtuoso range offers a wide variety of mattresses and support for 24-hour care with alternating seating cushions, as well as a single compressor which is compatible with all Virtuoso products.



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