AIR2CARE

LINET

A Great Deal of Pressure Relief



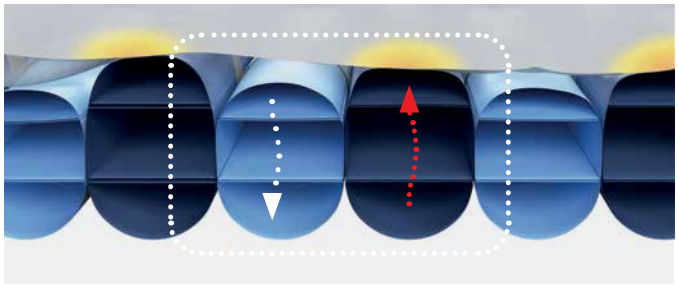
2-cell alternating pressure mattress family

AIR2CARE

A Great Deal of Pressure Relief



EFFICIENCY IN THE PREVENTION OF PRESSURE INJURIES



2-cell alternating system provides intermittent pressure reduction.



Automatic Fowler Boost helps to minimize the risk of bottoming out.

SIMPLICITY OF HANDLING BROUGHT BY USER-FRIENDLY FEATURES



Easy Smart System with automatic pressure setting adjusting to the patients weight and position.

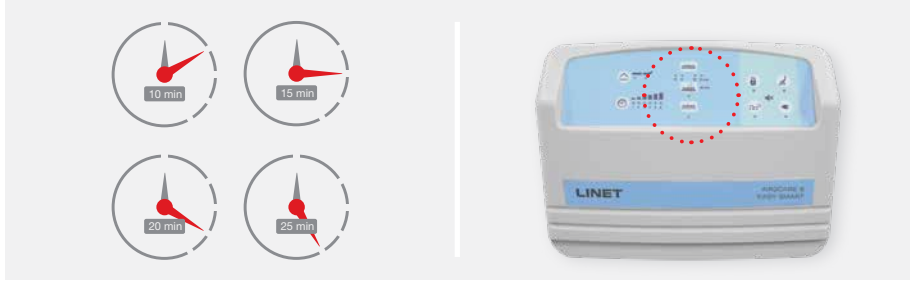


Easy patient transportation supported by Transport mode that can be enabled by simple disconnection from the compressor.



Convenient maintenance provided by individual cells that are removable and can be easily cleaned, decontaminated or replaced.

SAFETY AND COMFORT AT THE CORE OF PATIENT CARE



Wide choice of cycle times based on patient's condition and individual preference.



Integrated compressor provides less noise and vibration for better patient comfort.

AIR2CARE
Integrated

The compressor of the mattress is integrated into the Essenza bedframe, along with an easy to use control panel available on the bed siderails.

Integrated solution



Integrated compressor



Integrated mattress control panel



AIR2CARE
Mattress Replacement

Alternating Air2Care mattress replacement with an external compressor can be placed in any bed frames with compatible dimensions.

Mattress replacement



External compressor





SOLUTIONS OVERVIEW

ENHANCED PATIENT OUTCOME



PRESSURE INJURY PREVENTION

Effective pressure injury prevention of Air2Care mattress provided by 2-cell alternating system and Fowler Boost.



SUPPORT PATIENT RECOVERY

Air2Care offers individual cell deflation to enable the reduction of pressure in specific areas and support patient recovery.



PATIENT COMFORT AND SAFETY

Integrated compressor, Cycle Time Options and availability of Prone Mode help to enhance the comfort and well-being of patients.

IMPROVED CAREGIVER & HOSPITAL WORKFLOW



SIMPLIFY CAREGIVER PROCEDURES

Easy Smart System and Transport Mode help to reduce the complexity of caregiver procedures.



HOSPITAL OPERATIONS EFFICIENCY

Easy and safe maintenance of the Air2Care mattress brought by a complete integrated solution.



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

Efficient infection control is supported by the construction of removable cells of the mattress which enables ease of cleaning.

PRESSURE INJURY PREVENTION

CHALLENGE

— Worldwide prevalence of HAPI varies from 6–18.5 % in acute care segment [1]

— Pressure injuries can develop within minutes of immobility [3]

— Caregiver should routinely check the patient bottoming out on the support surface [4]

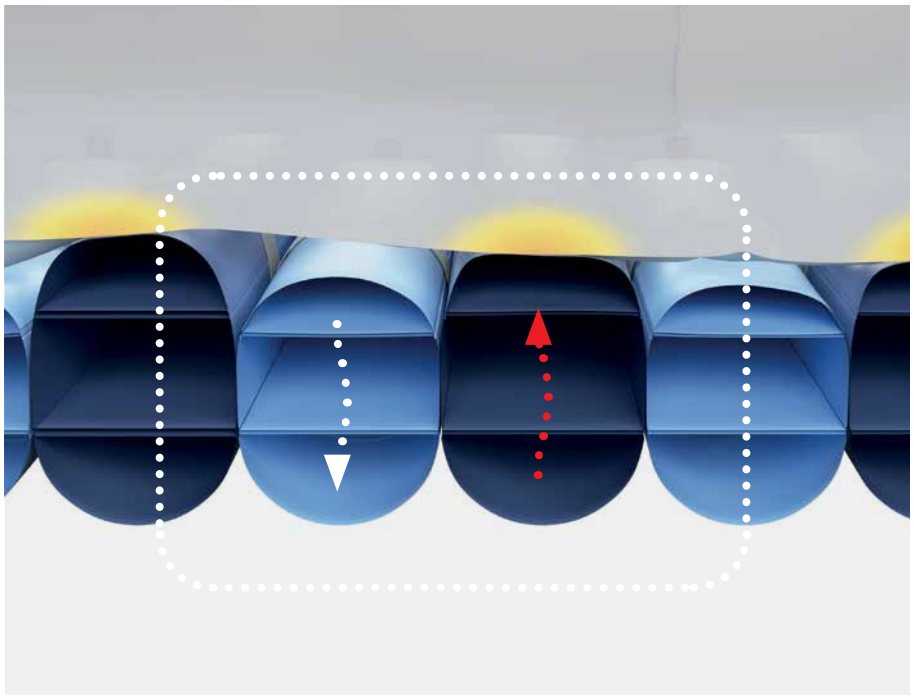
The cost of treating pressure injuries varies from £1,214 to £14,108 [2]



SOLUTION

Air2Care alternating pressure mattress provides periodic pressure relief.

2-Cell Alternating System



Air2Care with 2-cell alternating system reduces pressure and helps to minimize sustained pressure peaks to the patient's body.

Intermittent pressure reduction

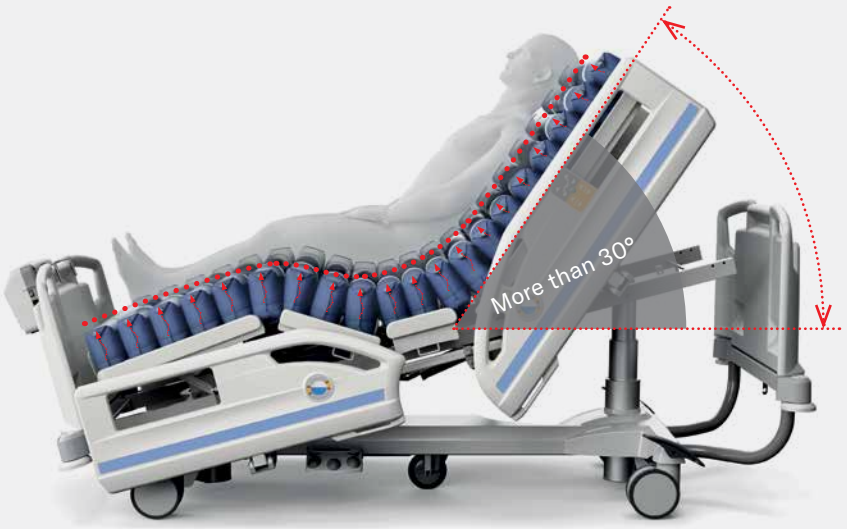
Alternating pressure can be used for pressure injury prevention as part of an overall program of care

Automatic Fowler Boost

Minimized risk of bottoming while sitting

The Air2Care mattress starts to increase air inflation when it detects the backrest has been raised by 30°.

The Single Point Fowler Boost enables automatic detection of the raised backrest position.



SUPPORT PATIENT RECOVERY

CHALLENGE

— Patient with an existing category I of pressure injuries can be in high risk of developing category II and higher [4]

— When the skin breaks down, the muscle and fat tissue have a lower resistance to pressure and temperature [5]

— The higher category of pressure injury the more time is needed for healing [6]

1 month
to heal pressure injuries of category I [6]

Up to 8 months
to heal pressure injuries of category III/IV [6]

SOLUTION

Alternating pressure mattress with individual cell deflation can be part of the treatment of early categories of pressure injuries and reduce the chance of developing higher categories of pressure injuries.[7]

Individual cell deflation



Localized pressure offload

The individual cell construction uses self-sealing valves that allow the cells to be individually deflated. This enables pressure to be removed from specific areas of the patient's body.

NOTE: Always complete a manual check to ensure the mattress does not bottom out due to a deflated cell.

PATIENTS COMFORT AND SAFETY

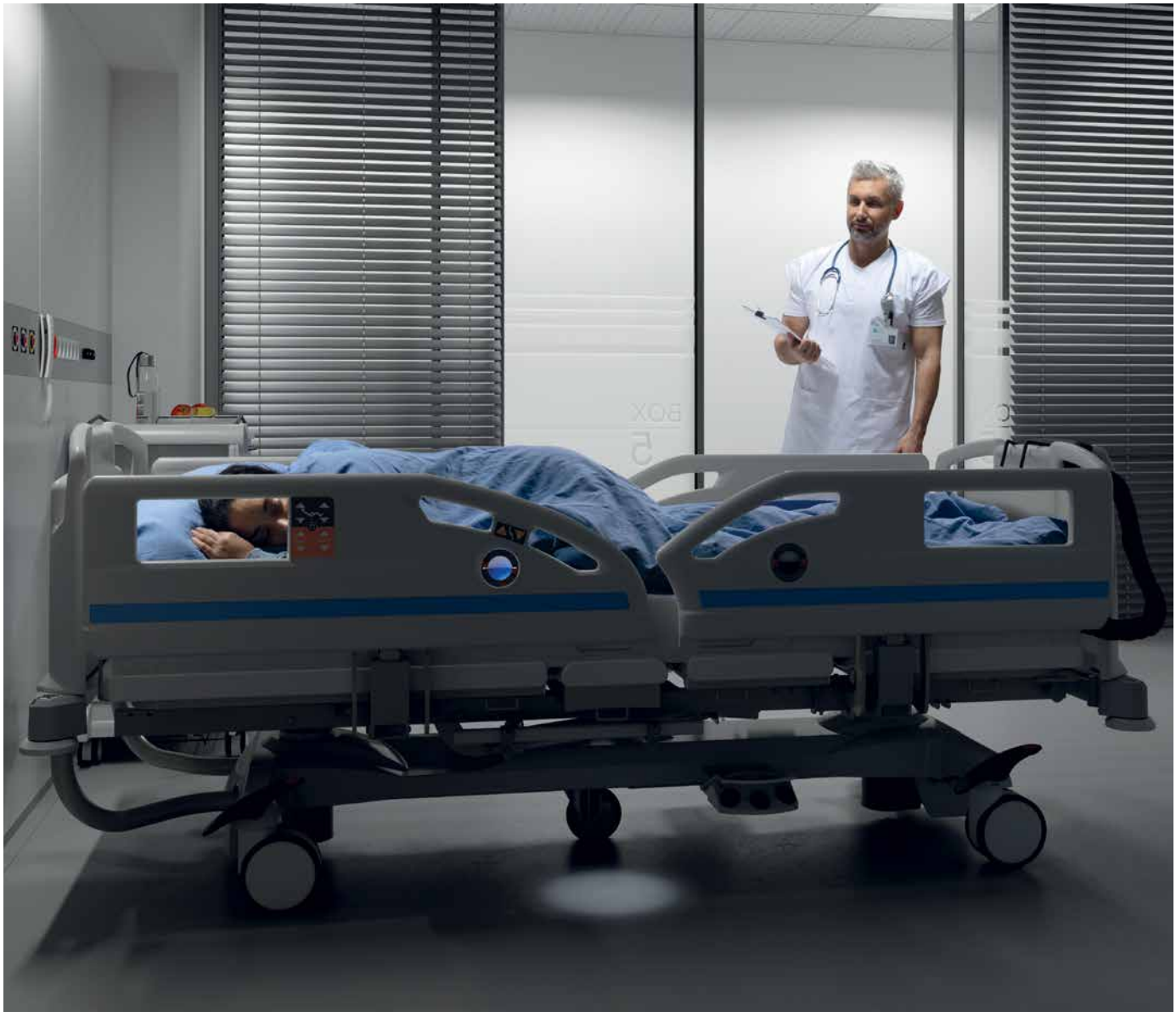
CHALLENGE

— Excessive noise influences patient healing and the working conditions of nurses [8]

— Sleeping of patient is highly connected to surrounding noise [9]

— After overexertion, the second most common cause for injuries is slip, trip and fall (STF) [10]

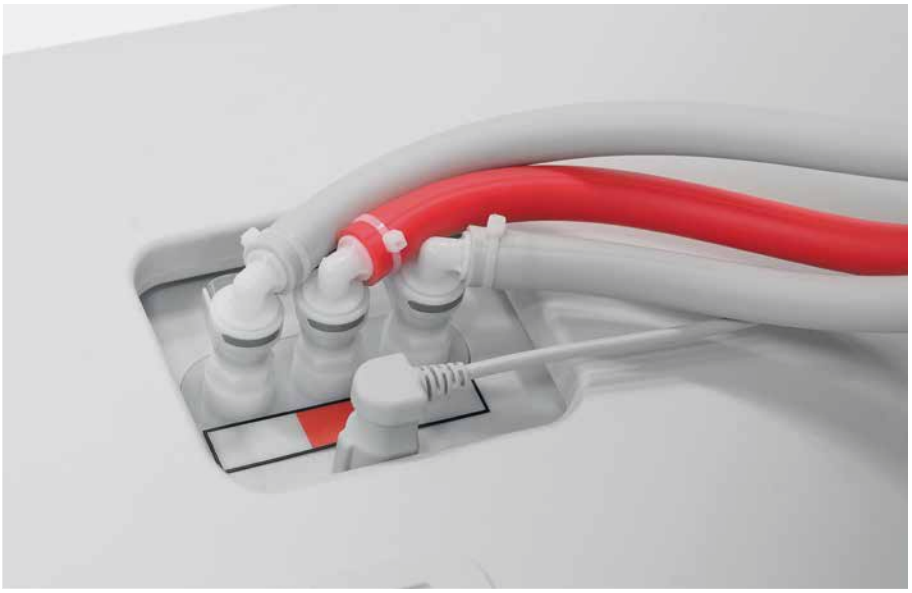
STF represents 25% of all injuries of healthcare workers [10]



SOLUTION

An integrated Air2Care compressor reduces vibration for better patient comfort.[11]

Integrated compressor



Integrated compressor meets the night noise requirements of WHO[12]



The integrated compressor **reduces vibration by more than 50%** compared with mattress replacement.[11]

Support for Heavier Patients



The A2C mattresses range allows placing plus sized patients thanks to models with a high maximum patient weight of 250 kg and extended dimensions of the mattress.



NOTE: maximum patient weight up to the 300 kg limit with the size of 140 × 200 cm.

Cycle Time Options of 10/15/20/25 Minutes

Choice of appropriate cycle time based on the patient's condition and individual preference





Mattress replacement

Availability of Prone Mode



It is possible to prone patients on the Air2Care 6 and 8 mattresses due to the self-sealing valves that allow the individual cells to be deflated.

NOTE: Always check manually for bottoming out.

Minimized Errors with Safety Lock Button



— The Safety Lock Button protects against accidental setting changes.
— Activate or deactivate the functions control using the Safety Lock button, located at the control panel.

SIMPLIFY CAREGIVER PROCEDURES

CHALLENGE

— 41% of caregivers suffer from lack of time [13]

— 34% of the working time nurses need to multitask [14]

— Narrow corridors and small space elevators inside hospital beds limit patient transport on the bed

SOLUTION

Integrated mattress control panel, Easy Smart System, and Fast Access CPR features reduce complexity of daily caregiver's procedures.

Integrated mattress control panel

Integrated solution



In the integrated Air2Care easy-of-use mattress control panel is available on the bed siderails.

User-friendly interface



All functions and settings can be set with a well-arranged control panel for the System Control Unit (SCU). Easy access to MAX, Alternating and Constant Low Pressure Modes and to use Plug & Play system.

Automatic Pressure Setting with the Easy Smart System

At the press of a button, the mattress will automatically and continuously adjust to the patient's individual size, weight and position. Manual pressure adjustment is available to suit patient comfort.

Patient is Positioned in Bed



Patient is positioned in bed.

Compressor



The system individually evaluates the pressure for the patient.

Mattress



The pressure in the mattress corresponds to the patient's individual parameters.

Fast Access to Immediate CPR



With the simple turning of a valve the mattress deflates providing a firm surface for chest compressions.

Easy Patient Transportation



Transport mode can provide constant low pressure while disconnected from the power of the compressor.

HOSPITAL OPERATION EFFICIENCY

CHALLENGE

— Number of caregivers required to transfer patients on to a stand-alone mattress

— Sustainable and Cost-effective equipment maintenance [15]

— Damaged mattresses are common in hospitals and potentially place patients at risk [16]

SOLUTION

Easy and safe maintenance of the Air2Care mattress brought by a complete integrated solution and cells construction.

Complete integrated solution

Integrated solution



Air2Care integrated helps to save space due to the absence of the external compressor and reduces the risk of cable damage while transporting.

Easy and Cost-Effective Maintenance



The removable cells with self-sealing valves enable quick and easy replacement of damaged cells without even having to switch off the system.

PREVENTION OF HOSPITAL AQUIRED INFECTIONS

CHALLENGE

— HAIs are the most deadly and costly adverse event, representing up to 6% of public hospital budgets [17]

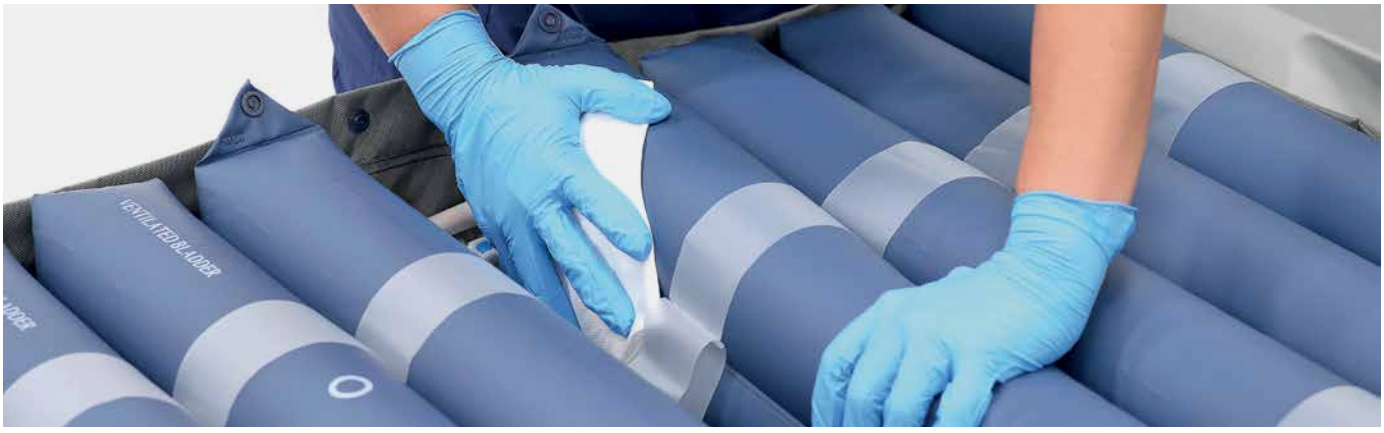
— Cleaning and checking mattress inside and cover on discharge or weekly [18]

3.1–4.6 milion people
acquire a healthcare-associated infection (HAI) in acute care hospitals in Europe every year [17]

SOLUTION

The cell construction makes it possible to completely remove the individual cells for cleaning and decontamination.

Infection control



Self-sealing valves help maintain pressure so the mattress stays inflated even if a cell is removed for cleaning or repair.



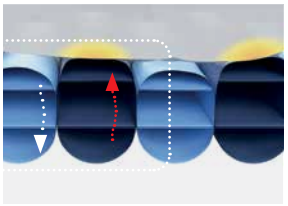
Individual cells can be removed so that the entire mattress may be easily cleaned.



The mattress cover is vapor permeable and water resistant. The zipper is covered to prevent the ingress of dirt or fluids.

KEY FEATURES OVERVIEW

2-cell alternating system provides intermittent pressure reduction.





Integrated compressor provides easy and time-saving maintenance.

Automatic Fowler Boost minimizes the risk of bottoming out.





Easy Smart System enables automatic pressure setting.

Individually removable cells provide easy and cost-effective maintenance.





Transport mode supports easy patient transportation.

4 cycle time options offer a wide choice for patient comfort.





CPR solution with fast access.

Safety Lock Button helps to minimize errors.





Individual cells deflation enables Prone positioning and supports localized pressure offload.

Support for Heavier patients with a limit of up to 250 kg.





24-hour care supported by Air2Care sitting cushion.

TECHNICAL SPECIFICATION

MODELS	AIR2CARE 8	AIR2CARE 6	AIR2CARE 5	AIR2CARE 4
Mattress replacement				
Integrated solution				

FEATURES

	AIR2CARE 8	AIR2CARE 6	AIR2CARE 5	AIR2CARE 4
Air Decks	Air+Air	Air+Air	Overlay	Overlay Seating Cushion
Modes	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure
Transport mode	Yes	Yes	Yes	Yes
Cycle Time*	10, 15, 20, 25 min	10, 15, 20, 25 min	10, 15, 20, 25 min	10, 15, 20 min
Fowler Boost	Single point	Single point	Single point	—

MATTRESS DIMENSION

Mattress replacement (cm)	200 x 86 x 20	200 x 86 x 15	200 x 86 x 12,5	48 x 46 x 10
	200 x 100 x 20	200 x 90 x 15		
	200 x 120 x 20	210 x 86 x 15		
	200 x 140 x 20	210 x 90 x 15		
	210 x 86 x 20	220 x 86 x 15		
Integrated mattress (cm)	200 x 86 x 20	200 x 86 x 15		

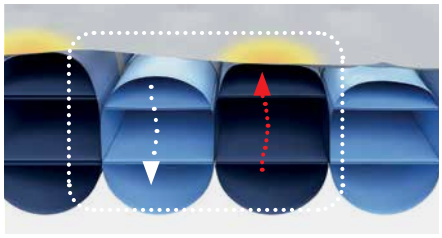
ADDITIONAL PARAMETERS

Maximum patient weight (kg)	86 cm wide: 180 kg 100 cm wide: 250 kg* 120 cm wide: 280 kg* 140 cm wide: 300 kg*	160	140	130
Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover
Zipper	360°	360°	360°	270°
Handles	Yes	Yes	Yes	—

* *Related to mattress replacement only*

EFFICIENCY IN THE PREVENTION OF PRESSURE INJURIES

2-cell alternating system provides intermittent pressure reduction.



SIMPLICITY OF HANDLING BROUGHT BY USER-FRIENDLY FEATURES

Easy Smart System enables automatic pressure setting.



SAFETY AND COMFORT AT THE CORE OF PATIENT CARE

Integrated compressor provides easy and time-saving maintenance



REFERENCES

1. Tervo-Heikkinen T, Heikkilä A, Koivunen M, et al. 2021. Pressure injury prevalence and incidence in acute inpatient care and related risk factors: A cross-sectional national study. International Wound Journal. 19(4):919–31
2. Dealey C, Posnett J, Walker A. 2012. The cost of pressure ulcers in the United Kingdom. Journal of Wound Care. 21(6):261–66
3. Gefen A, Brienza DM, Cuddigan J, et al. 2021. Our contemporary understanding of the aetiology of pressure ulcers/pressure injuries. International Wound Journal. 19(3):692–704
4. EPUAP/NPIAP/PPPIA Clinical Practice Guideline 2019
5. Zeevi T, Levy A, Brauner N, et al. 2017. Effects of ambient conditions on the risk of pressure injuries in bedridden patients—multi–physics modelling of microclimate. International Wound Journal. 15(3):402–16
6. Guest JF, Fuller GW, Vowden P, et al. 2018. Cohort study evaluating pressure ulcer management in clinical practice in the UK following initial presentation in the community: costs and outcomes. BMJ Open. 8(7):e021769
7. NHS. 2020 Treatment Pressure ulcers (pressure sores). Health A to Z. [Cited: 2022 Nov 23]. Available online: https://www.nhs.uk/conditions/ pressure-sores/treatment/
8. Choiniere DB. 2010. The effects of hospital noise. Nursing Administration Quarterly. 34(4):327–33
9. Maidl-Putz C, McAndrew NS, Leske JS. 2014. Noise in the ICU. Nursing2020 Critical Care. 9(5):29–35
10. Bell J, Collins JW, Dalsey E, Sublet V. 2021. Slip, Trip, and Fall Prevention. Centers for Disease Control and Prevention [Cited: 2022 Nov 23]. Available online: https://www.cdc.gov/niosh/docs/2011-123/
11. LINET internal testing. 2022 Data upon requesting.
12. Guidelines Review Committee. 2018. Environmental noise guidelines for the European Region. [Cited: 2022 Nov 23] https://www.who.int/publications/i/item/9789289053563.
13. Musculoskeletal disorders in the healthcare sector. Safety and Health at Work EU-OSHA. [Cited: 2022 Nov 23] Available online: https://osha.europa.eu/en/publications/musculoskeletal-disorders-healthcare-sector
14. Kalisch BJ, Aebersold M. 2010. Interruptions and multitasking in nursing care. The Joint Commission Journal on Quality and Patient Safety. 36(3):126–32
15. WoundSource. 2018. Tools of the Trade: Pressure Injury/Ulcer Prevention and Medical Devices. [Cited: 2023 Jan 3]. Available online: https://www.woundsource.com/blog/tools-trade-pressure-injuryulcerprevention- and-medical-devices
16. BHTA 2016. Protect, Rinse and Dry: BHTA guidance on the care, cleaning and inspection of healthcare mattresses.. Available online: https://www.bhta.com/wp-content/uploads/2019/10/BHTA-3.pdf
17. OECD/European 2020. Health care-associated infections. Health at a Glance: Europe: State of Health in the EU Cycle. Available online: https://www.oecd-ilibrary.org/sites/4af33743-en/index.html?itemId=/content/component/4af33743-en
18. NHS Lothian. 2020 Infection Prevention & Control: Mattress Checking Procedure. [Cited: 2022 Nov 23] Available online: https://policyonline.nhslothian.scot/Policies/Procedure/Mattress%20Checking%20Procedure.pdf

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