

OPTICARE

Immersion Designed Around Patient

LINET



Optimal Immersion Technology

OPTICARE BRINGS AUTOMATION TO ICU PRESSURE CARE



In ICU care, pressure injuries remain a significant challenge. Patients often have complex needs and limited mobility, while caregivers work under constant time pressure.

This is why **advanced, automated solutions are needed** to deliver consistent support without adding extra steps.

OptiCare adapts to the patient's condition and helps maintain consistent pressure redistribution –supporting patient positioning and caregiver workflow, with

**Immersion
Designed Around
Patient at its
core.**



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



73% of pressure injuries are preventable.²

41% of caregivers report lack of time.³

OPTICARE

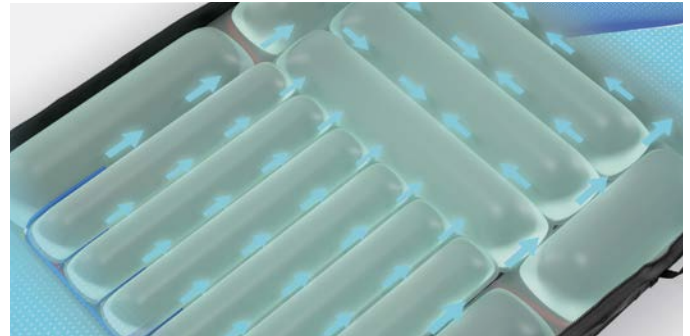
Immersion Designed Around Patient



ADAPTIVE PRESSURE INJURY PREVENTION ENABLED BY OPTIMAL IMMERSION



Optimal immersion system redistributes pressure by allowing the body to sink to an ideal depth.

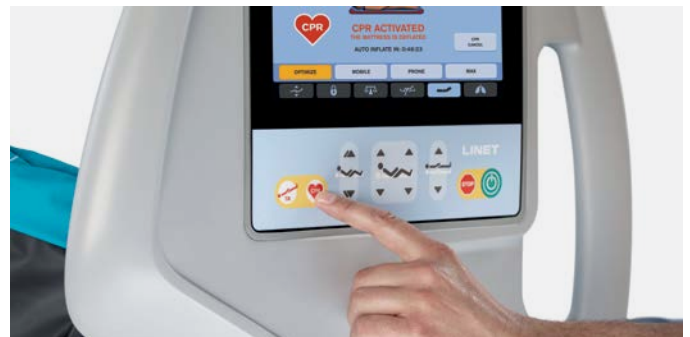


Microclimate Maintenance provides support for natural body thermoregulation.

PATIENT SUPPORT IN ANY STAGE OF CRITICAL CARE



Four therapy modes adapt pressure redistribution and support levels to the patient's condition and care procedures.



One-touch CPR deflates the mattress and positions the bed for immediate resuscitation.

FULL INTEGRATION FOR SIMPLIFIED NURSING



The integrated compressor eliminates external units, saving space, and reducing vibration.



Integrated control panel for bed and mattress functions in one unit.



Automatic foot extension extends the bed and mattress with one button.



SOLUTIONS OVERVIEW

ENHANCED PATIENT OUTCOME



PRESSURE INJURY PREVENTION

OptiCare supports adaptive pressure injury prevention thanks to optimal immersion system, microclimate maintenance and heel slope.



SUPPORT PATIENT RECOVERY

OptiCare offers four therapy modes which adjust pressure redistribution and support to the patient's condition.



SUPPORT PATIENT RECOVERY

Integrated compressor and adjustable pressure settings help to enhance comfort and well-being of patients.

IMPROVED CAREGIVER & HOSPITAL WORKFLOW



SIMPLIFY CAREGIVER PROCEDURES

Automatic pressure settings, easy mattress handling and all-in-one control panel help to reduce the complexity of caregiver procedures.



HOSPITAL OPERATIONS EFFICIENCY

Easy and safe maintenance of OptiCare brought by diverse cover options, integrated X-ray sleeve, and modular design.



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

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



PRESSURE INJURY PREVENTION

CHALLENGE

- Prevalence of Hospital-Acquired Pressure Injuries is 27% in ICU.¹
- Increased skin temperature and moisture increases the risk of skin breaking down.⁴
- HAPIs can cost an average of \$10,708 per patient.⁵
- After the sacrum, heels are the second most vulnerable site for pressure injuries.⁶

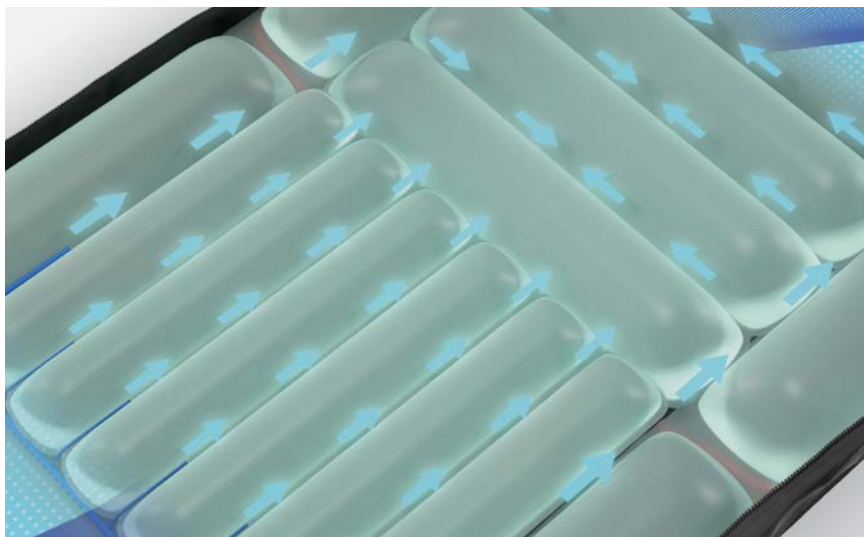


SOLUTION

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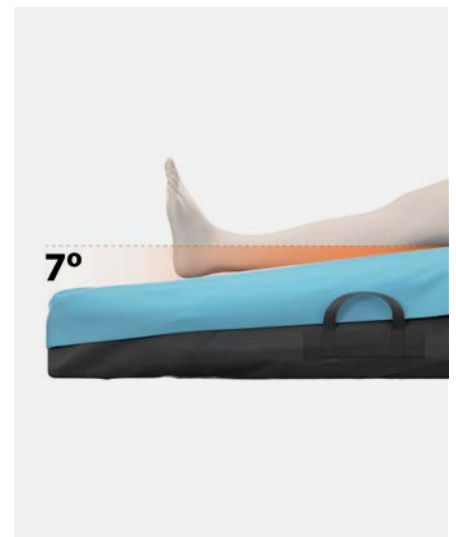
OPTIMAL IMMERSION SYSTEM

Redistributes pressure by allowing the body to sink to an ideal depth, spreading weight evenly and reducing high-risk pressure points.



MICROCLIMATE MAINTENANCE (MCM)

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



HEEL SLOPE

A 7° heel section slope helps reduce pressure in this high-risk area.



SUPPORT PATIENT RECOVERY

CHALLENGE

- Pressure air mattresses **may impact ability to move in bed** and/or egress the bed.⁷
- **57% of patients** who are nursed in the prone position develop pressure injuries.⁸

Patient with an **existing category I** of pressure injuries can be in **high risk of developing category II** and higher.⁹



SOLUTION



Learn more about
Prone Positioning in
dedicated White Paper



Learn more about
OptiCare X modes in
the Optimal Immersion
Clinical Guide



OptiCare offers **four therapy modes** which adjust pressure redistribution to the patient's condition.



OPTIMIZE MODE



MOBILE MODE



PRONE MODE



MAX MODE



MODE DESCRIPTION

Optimal immersion and envelopment, supported by LINET®'s **Bottoming Out Detection System**.

- Weight-based CLP* with balanced air levels to redistribute pressure while maintaining stability.**

- Weight-based CLP* with enhanced air support for pressure redistribution and stability.**

- Firm, stable surface for procedures and transfers; automatically returns to the previous mode after 30 minutes.

APPLICABLE FOR

- For high-risk patients, long-term therapy.

- For early mobilization, partial mobility.

- For prone-positioned ICU patients.

- For nursing procedures, repositioning, transfers.

* Constant Low Pressure

** Mode is available only for OptiCare X



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PATIENT COMFORT AND SAFETY

CHALLENGE

- **Noise, constant movement** and sinking into mattresses are factors that impact patient comfort.^{10, 11}
- Noise in the ICU drives **sleep disruption**, increases **delirium risk**, and contributes to **staff fatigue**.^{12, 13}

In the US, more than **40%** of people are obese.¹⁴

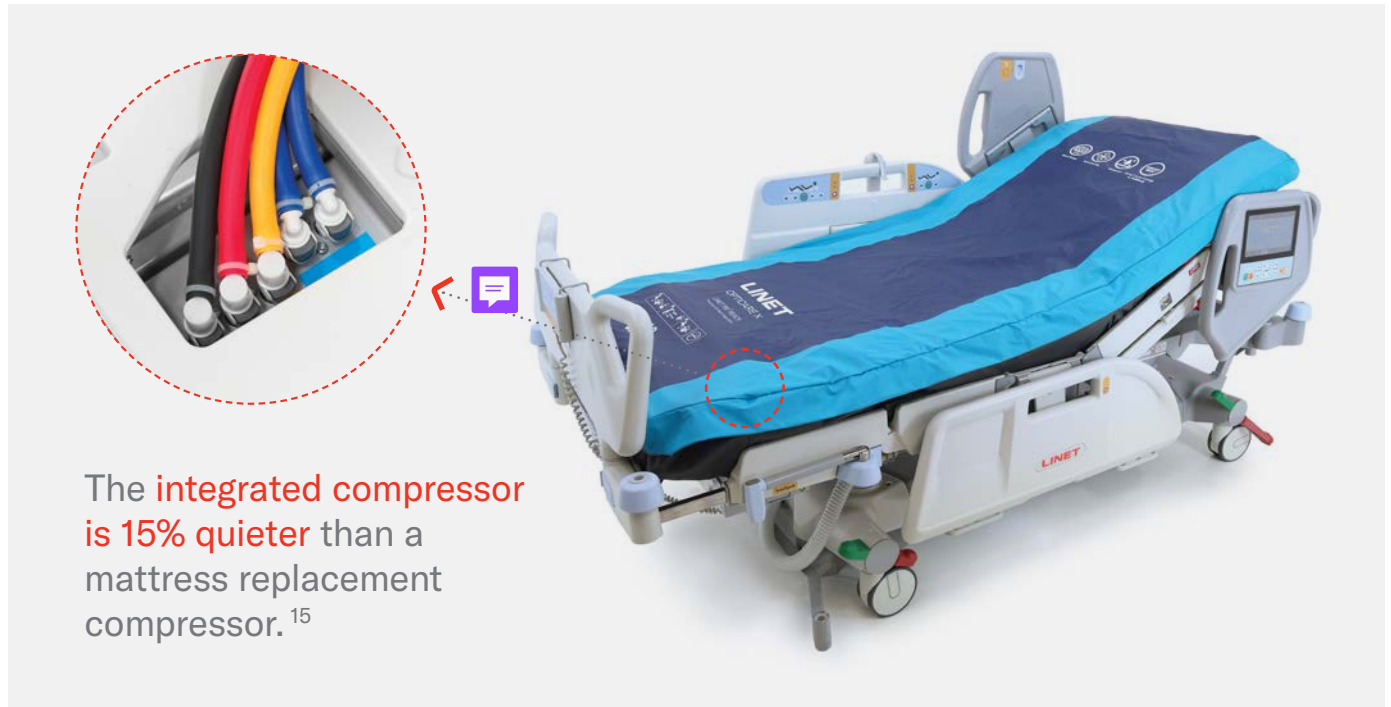


SOLUTION

Integrated compressor and adjustable pressure settings help to enhance comfort and well-being of patients.

INTEGRATED COMPRESSOR

Eliminates external units to save space and deliver continuous pressure relief, with 68% lower vibration for comfort.¹⁵



COMFORT PRESSURE SETTINGS

Are flexible and easy to adjust – intuitive pressure controls support individual patient comfort needs.



SUPPORT FOR HEAVIER PATIENT

Accommodates patient weights up to 250 kg with stable and reliable support.





SIMPLIFY CAREGIVER PROCEDURES

CHALLENGE

- 15.6% of nurses reported burn-out²³ and 41% of caregivers suffer from lack of time³
- Nurses are multitasking for 34% of the time.¹⁶
- In-hospital cardiac arrest is a medical emergency that occurs on a regular basis.¹⁷



SOLUTION

Automatic pressure settings, easy mattress handling and all-in-one control panel help to reduce the complexity of caregiver procedures.

FULLY AUTOMATED PRESSURE SETTINGS

Detect patient presence and automatically optimizes pressure, reducing setup time.



EASY MATTRESS HANDLING

is supported by a lightweight design for simple positioning and transport during daily care.



INTEGRATED CONTROL PANEL

enables simple and efficient control of bed and mattress functions from one interface.



FAST ACCESS TO IMMEDIATE CPR

is enabled by two deflation options that quickly provide a firm resuscitation surface.



Automatic one-touch activation deflates the mattress and positions the bed for CPR.



A dedicated CPR valve allows quick manual mattress deflation.

TRANSPORT MODE

The mattress supports up to 12 hours of pressure redistribution during transport.



AUTOMATIC MODE TIMERS

Reduce manual switching to support safer clinical workflows.



OPTIMIZE MODE

Tracks time spent in the prone position to **support timely repositioning** and reduce risks of prolonged prone therapy.



MOBILE MODE

Temporarily pauses optimize therapy for **safer mobilization**, then automatically returns to optimize when the timer ends.



PRONE MODE

Provides firm support for up to 30 minutes, then automatically returns to the previous mode after procedures or transfers.

AUTOMATIC FOOT EXTENSION

Automatic extension of the bed and mattress at one touch contributes to comfort for taller patients.





HOSPITAL OPERATIONS EFFICIENCY

CHALLENGE

- Need to reposition patient up to **35 times during 12h** shift.¹⁸
- A chest **X-ray** (CXR) should be performed immediately after placement of invasive lines.¹⁹
- **Damaged mattresses** are common in hospitals and potentially place patients at risk.²⁰



SOLUTION

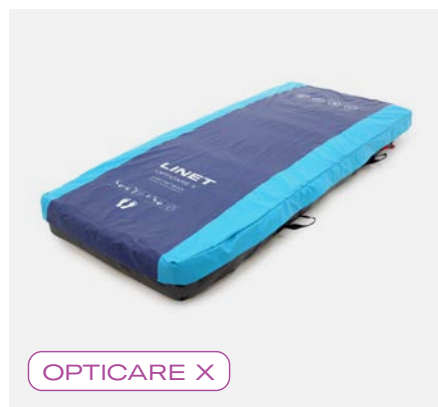
Easy and safe maintenance of OptiCare brought by diverse **cover options, integrated X-ray sleeve, and modular design.**

WIDE RANGE OF COVERS

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

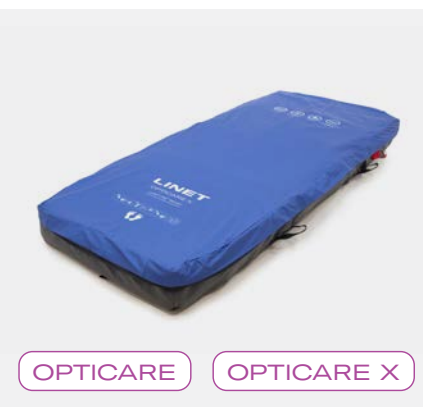
Zoned cover

Dartex® Zoned Coatings by Trelleborg with glide centre for easier patient repositioning and “grippy” edges supporting safe patient mobilization.



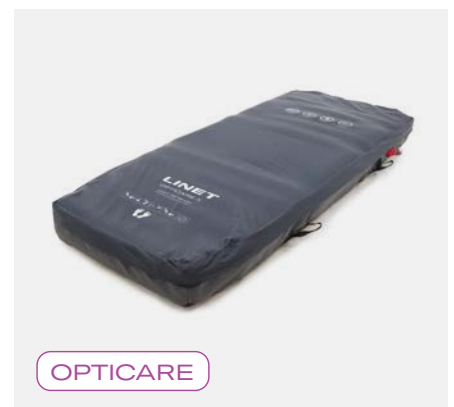
Microclimate cover

Designed for maintaining a favorable microclimate through its high vapor permeability.



Endurance cover

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



X-RAY SLEEVE

Is integrated into the cover, accessible from both sides, enabling easy X-ray cassette placement and safer ergonomics.



MODULAR DESIGN

Allows individual components to be replaced easily, reducing service time, costs, and unnecessary mattress replacement.





PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

CHALLENGE

- 3.2 % of patients in the US are affected by Hospital-Acquired Infections (HAIs).²¹
- During inspections, 47 % of covers need to be replaced due to damage or strikethrough.²²

In hospitals 25% of mattresses are damaged and need replacing, increasing the risk of HAIs.²²



SOLUTION

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



360° ZIPPER

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



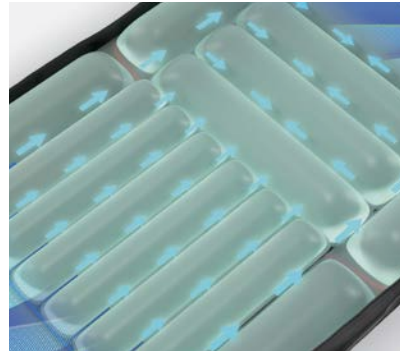
WHITE INTERIORS

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



KEY FEATURES OVERVIEW

Optimal immersion evenly redistributes pressure by allowing the body to sink to an ideal depth.



Microclimate Maintenance provides support for natural body thermoregulation.

Automatic one-touch CPR deflates the mattress and positions the bed at the same time.



Four therapy modes adjust pressure redistribution to the patient's condition.

Integrated mattress solution provided by integrated compressor and mattress control panel.



Fully automated pressure settings detect patient presence and automatically optimize pressure to reduce setup time.

Cover options provide versatile solutions to meet the individual needs of patients and caregivers.



Integrated X-ray sleeve accessible from both sides, enabling easy X-ray cassette placement and safer ergonomics.

OPTICARE PORTFOLIO AND TECHNICAL OVERVIEW

| Models | | OptiCare | OptiCare X |
|-----------------------|-----------------------------|--|---|
| | |  |  |
| Compatible beds | | Eleganza 5, Multicare | Multicare X |
| Features | Modes | Optimize, Max | Optimize, Prone, Mobile, Max |
| | Transport mode | ✓ | ✓ |
| | Microclimate Maintenance | ✓ | ✓ |
| | X-ray cassette sleeve | ✓ | ✓ |
| | Automatic Foot Extension | ✓ | ✓ |
| Mattress dimension | Length (cm) | 214 | 214 |
| | Width (cm) | 86 | 87 |
| | Depth (cm) | 22 | 23 |
| | Weight (kg) | 13 | 15 |
| Additional parameters | Maximum patient weight (kg) | 250 | 250 |
| | Zipper | 360° | 360° |
| | Handles | ✓ | ✓ |
| | Cover | Microclimate, Endurance | Microclimate, Zoned |

ADAPTIVE PRESSURE INJURY PREVENTION ENABLED BY OPTIMAL IMMERSION

OptiCare mattresses support adaptive pressure injury prevention thanks to Optimal Immersion technology and Microclimate Maintenance.



PATIENT SUPPORT IN ANY STAGE OF CRITICAL CARE

Four therapy modes adapt pressure redistribution to the patient's condition, and One-touch CPR deflates the mattress and positions the bed with a single button.



FULL INTEGRATION FOR SIMPLIFIED NURSING

Integrated compressor and control panel simplify bed and mattress management, while automatic foot extension adapts length with one button.



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