

HYBRIMATT

The Hybrid Path to Efficiency

LINET



Active and passive systems in one

WHY HYBRID MATTRESS?



Hybrid mattress systems are support surfaces that contain elements of both a passive and an active system.

Hybrid mattresses allow caregivers to easily step up or step down as the patients' risk of developing pressure injuries changes throughout their hospital journey. Its versatility ensures that patients can remain on a single mattress.

HybriMatt contributes to pressure injury prevention, streamlines hospital operations, and offers a variety of mattress options, making it

the Hybrid
Path to
Efficiency.



4 %

of annual healthcare budget spending is related to pressure injuries.¹





**1 of 10
patients**

worldwide develop
pressure injury.²



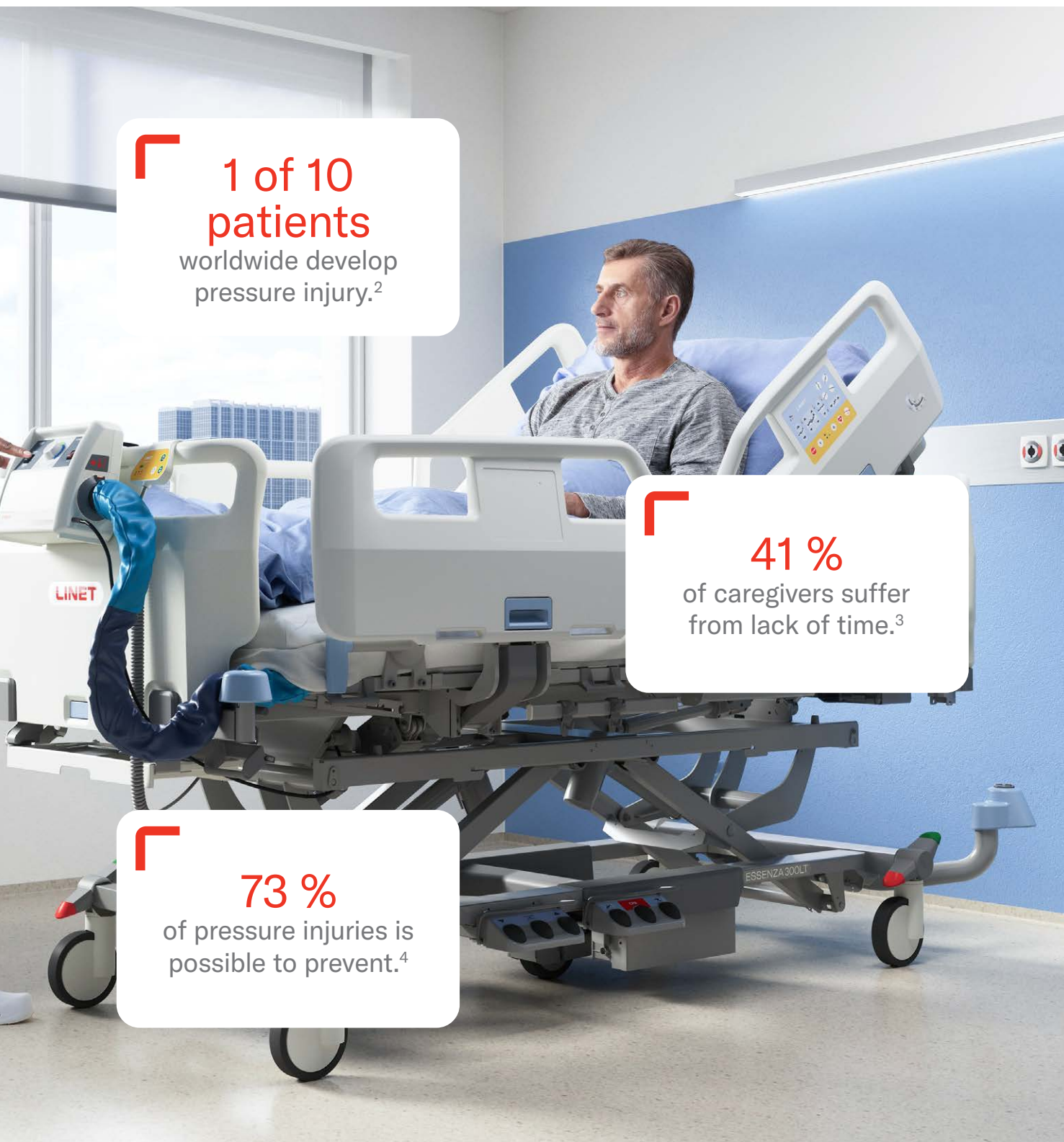
41 %

of caregivers suffer
from lack of time.³



73 %

of pressure injuries is
possible to prevent.⁴



HYBRIMATT

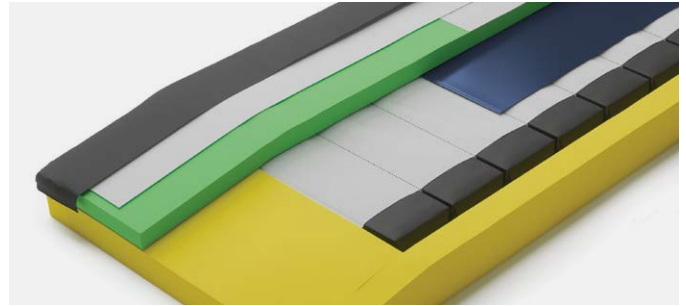
THE HYBRID PATH TO EFFICIENCY



HYBRID APPROACH TO PRESSURE INJURY PREVENTION



Active system with 2-cell alternation provides periodic pressure reduction.



Passive system helps to redistribute pressure thanks to a viscoelastic foam layer in the mattress. Active and passive systems together deliver what no single system can.

ENHANCING EFFICIENCY IN HOSPITAL PROCEDURES



Hybrid mattresses **simplify daily procedures for caregivers** and support flexibility in prevention strategies.



Easy mattress cleaning and inspection thanks to full access to all the components of the mattress.

VERSATILE MATTRESS OPTIONS



Integrated mattress option provides a cohesive solution for the Essenza bed.



Mattress replacement can be placed on any bedframe.

HYBRIMATT 100

This hybrid mattress is available in 2 versions: integrated into the Essenza 300 series bed and as a mattress replacement with external compressor suitable for compatible bedframes.

HYBRIMATT 100



External compressor
HybriMatt 100



HYBRIMATT 100 IN



Integrated compressor



HYBRIMATT 200

The advanced model which offers Microclimate Maintenance and a wide range of additional cover options, suitable for compatible bedframes.

HYBRIMATT 200



External compressor
HybriMatt



HYBRIMATT 200 IN



Integrated compressor





SOLUTIONS OVERVIEW

ENHANCED PATIENT OUTCOME



PRESSURE INJURY PREVENTION

The HybriMatt mattress provides both passive and active modes that support effective pressure injury prevention.



SUPPORT PATIENT RECOVERY

HybriMatt offers a wide range of active modes to support patient recovery.



PATIENT COMFORT AND SAFETY

Integrated compressor, cable management and comfort pressure setting help to enhance the comfort and well-being of patients.

IMPROVED CAREGIVER & HOSPITAL WORKFLOW



SIMPLIFY CAREGIVER PROCEDURES

Integrated mattress control panel and fast access to immediate CPR help to reduce the complexity of caregiver procedures.



HOSPITAL OPERATIONS EFFICIENCY

The Hybrid System, X-ray sleeve and evacuation cover options support operational efficiencies.



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

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



PRESSURE INJURY PREVENTION

CHALLENGE

- The cost of treating pressure injuries varies from £1,214 to £14,108.⁵
- Pressure injuries can develop within minutes of immobility.⁶

The worldwide prevalence of Hospital Acquired Pressure Injuries ranges from

6–18.5 %

in the acute care segment.⁷

After the sacrum,

heels are the second most vulnerable site

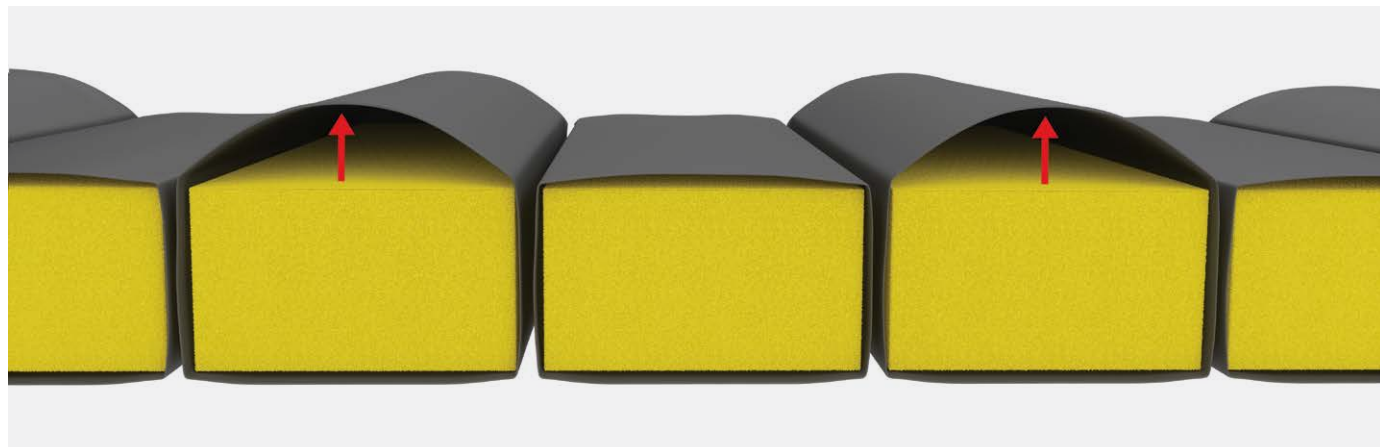
for pressure injuries.¹⁶



SOLUTION

The HybriMatt mattress **with an active and passive system in one** provides periodic pressure relief and redistribution.

ACTIVE SYSTEM



2-cell alternation

The 2-cell alternating therapy system of HybriMatt provides periodic pressure reduction and has a gentle action due to the viscoelastic foam top layer, optimizing pressure redistribution and supporting pressure injury prevention.

Air cells with foam core

The air cells within the mattress contain a foam core that supports the patient when in passive mode. When the compressor is attached, air circulates around the cells, providing active therapy.



Microclimate Maintenance (MCM)

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

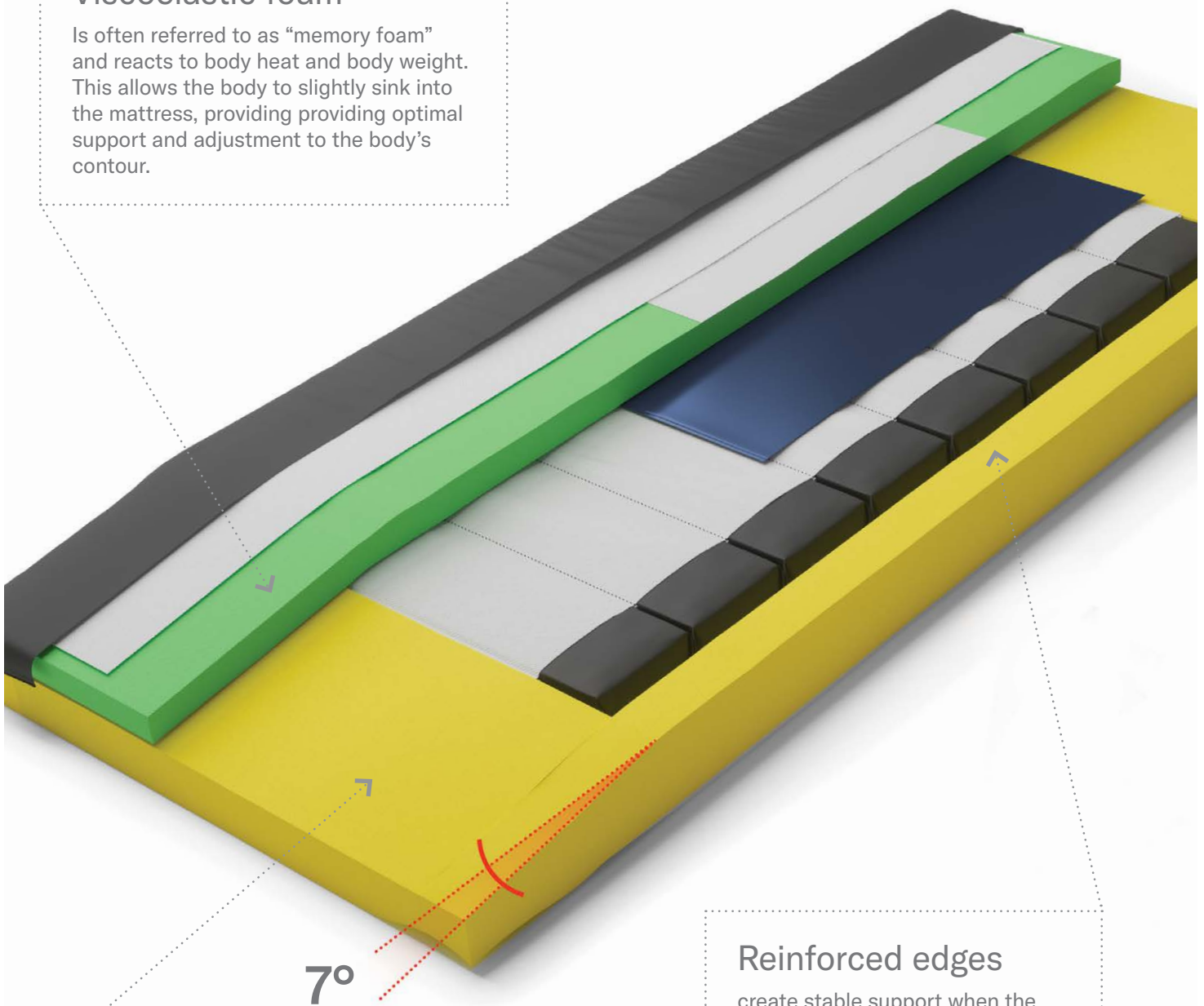
HYBRIMATT 200 (IN)

PASSIVE SYSTEM

The mattress is layered and contains a polyurethane foam core, a viscoelastic foam top layer for increased pressure redistribution and firmer edges to support the patient's mobility.

Viscoelastic foam

Is often referred to as “memory foam” and reacts to body heat and body weight. This allows the body to slightly sink into the mattress, providing providing optimal support and adjustment to the body's contour.



7°

Heel slope

The heel section has a 7-degree slope that reduces pressure in this high-risk area.

Reinforced edges

create stable support when the patient lies on the bed or leaves it.



SUPPORT PATIENT RECOVERY

CHALLENGE

- Patient with an existing category I of pressure injuries can be in high risk of developing category II and higher.⁸
- Patient with Hospital Acquired Pressure Injuries stays in hospital **9.5 days longer**.⁹
- The higher category of pressure injury, the more time is needed for healing.¹⁰

1 month

to heal pressure injuries
of category I¹⁰

Up to **8 months**

to heal pressure injuries of
category III/IV¹⁰

SOLUTION

HybriMatt with the wide choice of active modes supports patient recovery.



Wide choice of active modes

Alternating pressure therapy (APT), constant low pressure (CLP) and MAX modes are available to support patient recovery.

- **The alternating pressure therapy mode (APT)** is a system where cells inflate and deflate, reducing pressure periodically.
- **The constant low-pressure mode (CLP)** enables equal internal pressure in cells to support patient comfort.
- **The MAX mode** inflates the mattress to make it firmer and more stable to support nursing procedures.



PATIENT COMFORT AND SAFETY

CHALLENGE

- Sleeping of patient is highly connected to surrounding noise.¹¹
- In 2019–2020 there were over 1 million hospital admission with obesity as a factor in United Kingdom.¹²
- **84.8 %** of falls happen unwitnessed.¹³



SOLUTION

An integrated HybriMatt 100 and 200 **reduce vibrations by more than 50 %** to support patient comfort.¹⁴



Integrated compressor

HybriMatt 100 IN and 200 IN are compatible with the Essenza series bedframes. The internal compressor reduces noise levels and vibrations to ensure that the patient's quality of sleep is optimised.

HYBRIMATT 200 IN

HYBRIMATT 100 IN

Comfort pressure settings

The pressure control dial allows the caregiver to adjust the pressures in the mattress to support the patient's individual comfort needs.



HYBRIMATT 200

Cable management

Is available on the mattress to maximize patient safety.



HYBRIMATT 200

HYBRIMATT 100

Support for heavier patients

The HybriMatt mattress range allows the placement of plus sized patients thanks to the high maximum patient weight of 230 kg.





SIMPLIFY CAREGIVER PROCEDURES

CHALLENGE

- 41% of caregivers suffer from lack of time.³
- 34% of the working time nurses need to multitask.¹⁵
- 15.6% nurses reported burn-out.¹⁶



SOLUTION

Integrated mattress control panel and Fast Access CPR reduce the complexity of daily caregiver procedures.

Integrated mattress control panel



The control panel for the mattress is built into the Essenza bedframes. This reduces the need for separate power supply cords and also reduces the need of the caregiver to transfer the patient onto a mattress replacement system.

HYBRIMATT 200 IN

HYBRIMATT 100 IN

Fast access to immediate CPR

The HybriMatt mattress range is equipped with easily accessible CPR.



HYBRIMATT 200 IN

HYBRIMATT 100 IN

There are 2 valves on both sides of the mattress.



HYBRIMATT 200

HYBRIMATT 100

The mattress deflates of the air connector plug from the compressor.



HOSPITAL OPERATION EFFICIENCY

CHALLENGE

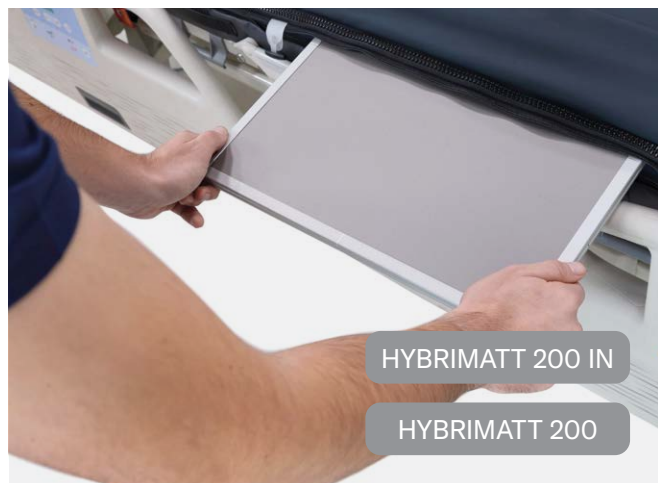
- It can take approximately **7 hours** to transfer a patient onto a traditional alternating mattress.¹⁷
- Chest X-ray is one of the most frequently performed portable X-rays in elderly patients.¹⁸
- Because of natural or man-made disasters, it may be necessary to evacuate hospitals or departments in almost **41.8 %** of cases.¹⁹



SOLUTION

Time saving efficiencies when using hybrid mattresses compared to traditional higher specification mattresses.²⁰

X-ray sleeve



The X-ray sleeve, integrated into the cover, has a separate zip. It can be accessed from both sides of the mattress and supports bedside imaging patients.

Evacuation cover



Evacuation cover supports fast and easy evacuation in case of an emergency. It is combined with the highest hygiene standards.

Wide range of covers

Our diverse range of cover options provide versatile solutions to meet the individual needs of patients and caregivers. Made from waterproof materials, these covers safeguard mattresses and their stretch capabilities reduce friction and shear forces, supporting pressure injury prevention.



Microclimate cover is designed for **maintaining a favorable microclimate** through its high vapor permeability.

HYBRIMATT 200 (IN)

HYBRIMATT 100 (IN)



Zoned cover (Dartex® Zoned Coatings) by Trelleborg with glide center for **easier patient repositioning** and “grippy” edges **supporting safe patient mobilization**.

HYBRIMATT 200 (IN)



Endurance cover delivers reliable support for caregivers, providing **enhanced durability** for long-lasting performance.

HYBRIMATT 200 (IN)

HYBRIMATT 100 (IN)



PREVENTION OF HOSPITAL ACQUIRED INFECTIONS

CHALLENGE

- Healthcare-associated Infections are the most deadly and costly adverse event, representing **up to 6%** of public hospital budgets.²¹
- Damaged beds and mattresses are common in hospitals and can potentially place patients at increased risk of infection.²²

**3.1–4.6
million people**

acquire a healthcare-associated infection in acute care hospitals in Europe every year²¹



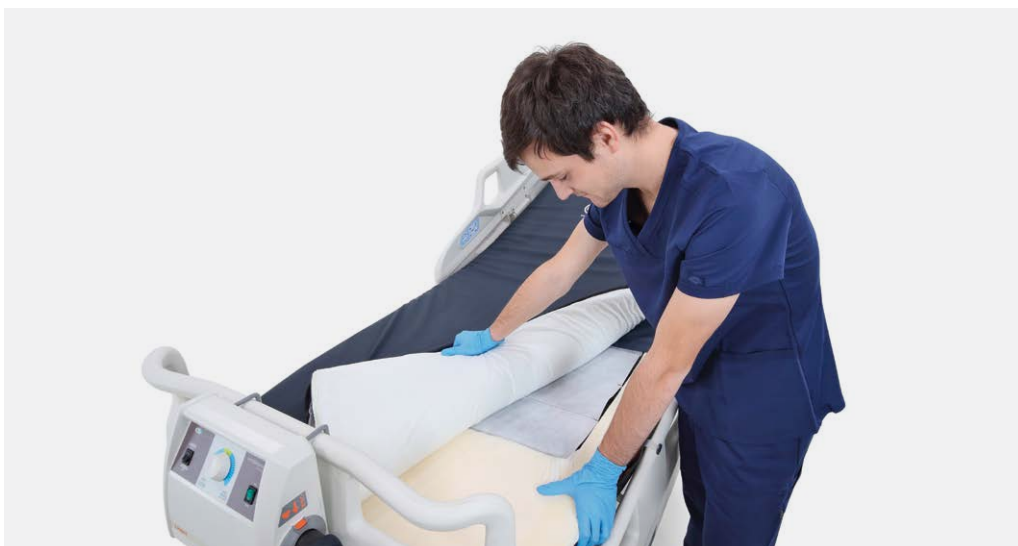
SOLUTION

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



Mattress cleaning

All the mattresses in the HybriMatt range allow full access to all the components for easy cleaning and disinfection. Supporting robust infection prevention and control procedures.

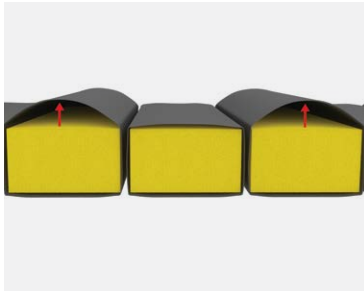


Mattress inspection

All of the many options of the mattress cover have white interiors to support the caregiver when visually inspecting the mattress for strikethrough and other damage.

KEY FEATURES OVERVIEW

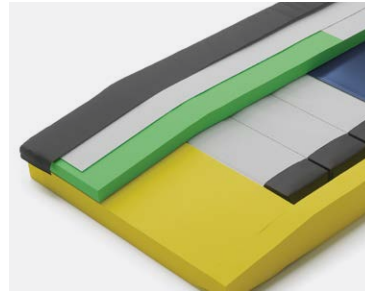
Active system with 2-cell alternation provides intermittent pressure reduction.



Integrated solutions with easy-of-use integrated compressor and mattress control panel available on the bed siderails.



Passive system with redistributive viscoelastic foam and reinforced edges supports pressure reduction.



Comfort pressure setting allows manually adjust pressure.



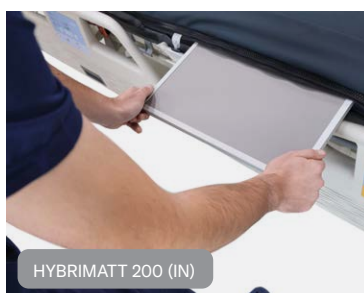
Microclimate Maintenance helps to maintain body's natural thermoregulation.



Wide options of covers including **Evacuation cover** are available for the HybriMatt range.



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



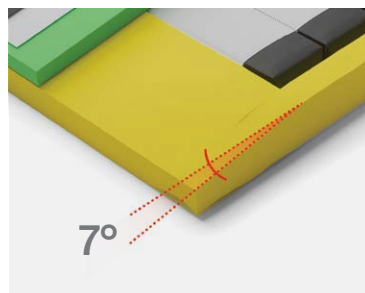
CPR solution with fast access.



Easy mattress cleaning and inspection provided by full access to all the components of the mattress.



Heel slope reduces pressure in high-risk areas.



TECHNICAL DETAILS

MODELS

HYBRIMATT 100

HYBRIMATT 200

Mattress replacement & Integrated solution

Mattress
replacement
HybriMatt 100

Integrated solution
HybriMatt 100 IN

Mattress
replacement

Integrated solution
HybriMatt 200 IN



Essenza 300

Essenza 400

Essenza 300

Essenza 400

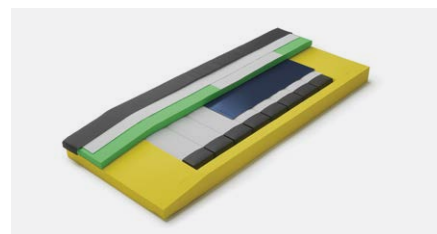
Compatible beds

Features	Air Decks	Air+Foam	Air+Foam
	Foam Layer	4 cm viscoelastic foam 11 cm polyurethane foam	4 cm viscoelastic foam 11 cm polyurethane foam
	Modes	Alternating Pressure Therapy, Max, Constant Low Pressure	Alternating Pressure Therapy, Constant Low Pressure
	Cycle timemattress replacement	10, 15, 20, 25 min	12 min
	Cycle timeintegrated mattress	10 min	10 min
	Microclimate Maintenance	No	Yes
Mattress dimension	Mattress replacement	200 × 86 × 15 200 × 90 × 15 208 × 86 × 15	200 × 86 × 15 200 × 90 × 15 208 × 86 × 15
	Integrated mattress	200 × 86 × 15	200 × 86 × 15
Additional parameters	Maximum patient weight (kg)	230	230
	Cover	Microclimatecover, Endurance cover ²⁾	Microclimatecover, Endurance cover, Zoned cover
	Zipper	270°, 360° ²⁾	360°
	Handles	Yes	Yes
	Evacuation cover (option)	—	Yes ¹⁾
	X-ray sleeve (option)	—	Yes

1) Related to the mattress replacement only. 2) Related to integrated solution only.

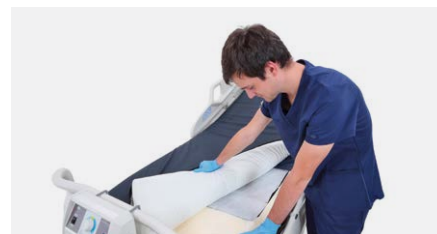
HYBRID APPROACH FOR PRESSURE INJURY PREVENTION

Active system and passive system in one provide periodic pressure reduction thanks to 2-cell alternating system, and pressure redistribution thanks to viscoelastic layer.



ENHANCING EFFICIENCY IN HOSPITAL PROCEDURES

Hybrid mattresses **simplify daily procedures for caregivers** and provide easy mattress cleaning and inspection.



VERSATILE MATTRESS OPTIONS

HybriMatt range offers **integrated mattress option and mattress replacement**.



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