



carilex®

Powered & Non Powered
Mattresses and Overlays

Pressure Care Solutions

CARING MAKES THE DIFFERENCE

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KCare
Healthcare Solutions



With over thirty years experience, **Carilex has established itself as a global leader in the wound care industry by developing state-of-the-art technology** in the prevention and treatment of pressure injuries.

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<https://www.carilexmedical.com.au/product-selector>



Understanding Pressure Injuries

What is a Pressure Injury?

A pressure injury is localised damage to the skin and/or underlying tissue, as a result of pressure or pressure in combination with shear. Pressure injuries usually occur over a bony prominence but may also be related to a device or other object. 1.

The treatment of any wound begins with a comprehensive understanding of its cause. Therefore, differentiating Pressure Injuries (PIs) from other wounds is the first step in assessing the PI and developing a treatment plan.

What Causes Pressure Injuries?

Pressure injuries can be caused by any of these conditions being present on the patient's skin: pressure, shear, moisture, and raised temperature. The most influential of these is shear.

The patient's weight and position cause pressure and shear to be applied to their skin and tissue, compressing it between the Support Surface and their bone structure. When external pressures are higher than the capillary blood-flow pressure in the patient's tissue, the capillaries can become occluded and damaged, diminishing blood supply causing tissue damage from lack of oxygen and nutrition.

A PI can occur due to the forces of a patient's body weight, or a result of externally exerted forces such as those applied by a medical device, the patient's position, other objects, or a combination of these.

The PI can present as intact (or unbroken) skin or an open wound and may be painful. The tissue damage occurs because of intense and/or prolonged exposure to sustained deformation in compression, tension, or shear. Deformation means changing the shape of the cells.

Deformation may cause direct damage to the structures of the cells, but also trigger inflammation and development of oedema, distort the capillary network, reduce the supply of nutrients to tissues, or cause lymphatic obstructions which will compromise the clearance of metabolic waste products

How Can Pressure Injuries Be Prevented?

Pressure injuries can be prevented by interface pressure re-distribution (moving the pressure) and regular repositioning of the patient. Interface pressure distribution ensures the even spread of the patient's weight, specifically over critical areas where pressure injuries develop. Repositioning the patient regularly decreases the duration of pressure, reducing the occurrence of capillary obstruction.

Support Surfaces are:

"specialised devices for pressure redistribution designed for management of tissue loads, microclimate, and/or other therapeutic functions (i.e., any mattress, integrated bed systems, mattress replacement, overlay or seat cushion, or seat cushion overlay."2

Select a Support Surface that meets the individual's need for pressure redistribution based on the following factors:

- Level of immobility and inactivity
- Need to influence microclimate control and shear reduction
- Size and weight of the individual
- Number, severity, and location of existing or history of pressure injuries
- Risk of developing new pressure injuries



Alternating Pressure Mattress:

Alternating Pressure Mattresses consist of a set of sealed air cells that alternatively inflate and deflate. The inflated cells provide adequate support to the patient whilst the deflated cells provide pressure relief, allowing capillaries to recover to their original size and shape thereby allowing blood to flow normally.

Constant Low- Pressure Support Surfaces

Constant low-pressure Support Surfaces distribute the patient's weight evenly, decreasing the resulting pressure on their body and thereby reducing the severity of capillary occlusion.

Some Factors to Consider When Choosing a Carilex Support Surface:

Note - One size does not fit all!

- Support Surface safe working load and /or patient weight
- User Pressure Injury Risk Assessment, for example, Waterlow Risk Assessment, to be completed by Nursing staff/Wound Care professional.
- Preference for overlay or mattress replacement
- Mattress surfaces size required- single or king single
- What is the priority – comfort or Pressure Injury Prevention and Management? **Note:** if you let them get a wound breakdown, comfort will never happen

- Budget requirements
- What specific support surface functions are needed to assist carers and benefit patient experience? Panel Lock: useful in dementia facilities or where residents/visitors may tamper with pump settings. Max Inflate: ideal for transferring in/out of bed, allied health therapy

For more information, please refer to the following websites and articles:

1. European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel, and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline, Emily Haesler (Ed.). EPUAP/NPIAP/PPIA:2019.
2. Wounds Australia
3. Waterlow Risk Assessment

Always check with your Doctor, Wound Care Nurse or OT professional, before choosing a support surface.

References: 1. European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel, and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline, Emily Haesler (Ed.). EPUAP/NPIAP/PPIA:2019. Chapter 2 Etiology, pg16
 2. European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel, and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline, Emily Haesler (Ed.). EPUAP/NPIAP/PPIA:2019. Chapter 10 Support Surfaces, pg155

Entrix NX

Alternating Air

Budget Friendly

The Intelligent Pressure Sensing Technology (IPS), responds to patient movements on the mattress by automatically adjusting internal mattress pressure, this allows Entrix NX to regulate airflow and continuously provide total envelopment for our patients. The pump's low noise level and comfortable modular cell design promote superior sleeping quality.



- Alternating Pressure Relief
- Multiple Weight Settings
- Whisper Quiet
- CLP Therapy Pressure Redistribution
- Lightweight Power Unit
- Memory Recall
- Cable Management
- Durable Material
- Easy Cleaning
- Protective PE layer
- Multiple Mattress Sizes
- Quick Connect Coupling



Global Leader in wound care,
distributed in over 40 countries worldwide



Entrix Nx 5 – Overlay

Risk/Category	High
Safe Working Load	Up to 150kg
Air Cell Configuration	16 x 5" Cells
Sizes (CM)	Single 90 x 200 x 13 Euro KS 100 x 200 x 13 King Single 107 x 200 x 13
Waterlow Score	15+

Entrix Nx 7 – Mattress Replacement

Risk/Category	High
Safe Working Load	Up to 150kg
Air Cell Configuration	16 x 5" Cells
Sizes (CM)	Single 90 x 200 x 18 Euro KS 100 x 200 x 18 King Single 107 x 200 x 18
Waterlow Score	15+



Entrix Nx Lux – Mattress Replacement



Risk/Category	Very High
Safe Working Load	Up to 180kg
Air Cell Configuration	20 x 7" Square Cells
Sizes (CM)	Single 90 x 200 x 18 King Single 107 x 200 x 18
Waterlow Score	20+

Centrius Alternating Air

Centrius = no guess work required

A key feature of the Centrius range is its ability to MINIMISE RISK to both the patient and the organisation. The Centrius system has been designed to be EASY TO USE whilst providing patients with optimal pressure care. Centrius does the thinking for you, with exclusive features such as Auto-set, Auto-upright and Auto-adjust functions.



-  **Alternating Pressure Relief**
-  **MAX Inflation**
-  **Whisper Quiet**
-  **CLP Therapy Pressure Redistribution**
-  **Lightweight Power Unit**
-  **Memory Recall**
-  **Cable Management**
-  **Durable Material**
-  **Easy Cleaning**
-  **Protective PE layer**
-  **Multiple Mattress Sizes**
-  **Quick Connect Coupling**



Manufacturing for over 30 years,
10 years in the Australian Market



Centrius 5 – Overlay

Risk/Category	High
Safe Working Load	Up to 150kg
Air Cell Configuration	16 x 5" Cells
Sizes (CM)	Single 90 x 200 x 13 Euro KS 100 x 200 x 13 King Single 107 x 200 x 13
Waterlow Score	15+



Centrius 7 – Mattress Replacement

Risk/Category	High
Safe Working Load	Up to 150kg
Air Cell Configuration	16 x 5" Cells
Sizes (CM)	Single 90 x 200 x 18 Euro KS 100 x 200 x 18 King Single 107 x 200 x 18
Waterlow Score	15+



Centrius Lux – Mattress Replacement

Risk/Category	Very High
Safe Working Load	Up to 200kg
Air Cell Configuration	20 x 7" Square Cells
Sizes (CM)	Single 90 x 200 x 18 King Single 107 x 200 x 18
Waterlow Score	20+



Centrius Fit – Mattress Replacement




Risk/Category	Very High
Safe Working Load	Up to 250kg
Air Cell Configuration	20 x 8" Square Cells
Sizes (CM)	Single 90 x 200 x 20 King Single 107 x 200 x 20
Waterlow Score	20+
Pressure Sore Grading	4

Dual Flex Hybrid MR

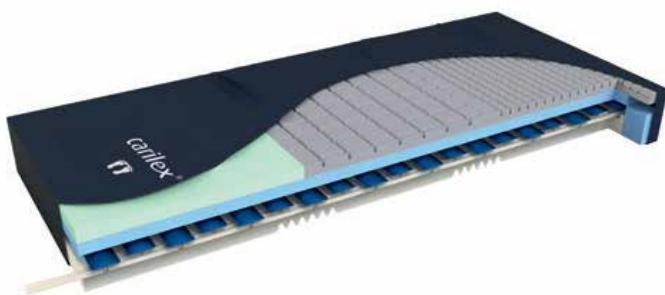
When Comfort Is a Priority!

The Dual Flex is a dynamic HYBRID replacement mattress system, combining both high performance static foam, and active alternating air cell technology for exceptional comfort and healing. The Dual Flex provides a very flexible step-up or step-down mattress system to cater for higher or lower risk patients all in one, cost effective pressure relieving mattress solution.



-  **CLP Therapy Pressure Redistribution**
-  **Whisper Quiet**
-  **Patient Transfer Mode**

-  **GELTEX Medical Grade Foam**
-  **Made in UK and Australia**
-  **3 x Zones**



Dual Flex – Mattress Replacement

Risk/Category	Very High
Safe Working Load	Up to 250kg
Air Cell Configuration	19 x 3" Cells
Sizes (CM)	Single 90 x 200 x 18 Euro KS 100 x 200 x 18 King Single 105 x 200 x 18
Waterlow Score	15+



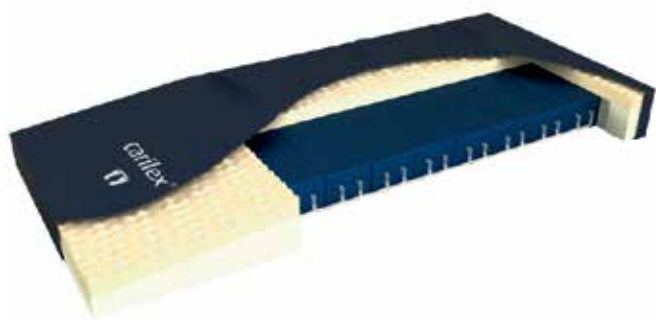
AirMax

Non-Powered MR

The AirMax is a non-powered, self-adjusting mattress replacement that automatically redistributes pressure by actively moving with the patient. The air-foam technology works when pressure is applied to the mattress, the internal air valves on each of the 8 cells, allow air in or out to redistribute the pressure across all the cells. This active air transfer technology provides a constant low pressure for the patients at 'Risk' of developing pressure injuries.

-  **Mattress Replacement**
-  **Multiple Mattress Size**
-  **Easy Cleaning**

-  **8 x Square Foam Cells**
-  **Pressure Redistribution**
-  **No Power**



AirMax – Mattress Replacement

Risk/Category	At Risk
Safe Working Load	Up to 250kg
Air Cell Configuration	8 x Square Foam Cells
Sizes (CM)	Single 90 x 200 x 18 Euro KS 100 x 200 x 18 King Single 107 x 200 x 18
Waterlow Score	10+

Dual Plus Modular MR

Modular Mattress Replacement

Revolutionary intelligent mattress replacement system that rethinks the way to optimise comfort. Dual Plus offers multiple comfort levels that deliver optimal internal pressure according to each patient's sensation. Electronic pressure sensors and sophisticated microprocessors run through intricate algorithms in order to respond to patient movements on the mattress by adjusting internal mattress pressure appropriately, no extra input needed. 5 inch bridging cells provide constant pressure relief and localised healing.



 **Whisper Quiet**

 **MAX Inflation**

 **Upright Mode**

 **High Pressure Alarm**

 **Memory Recall**

 **Panel Lock**

 **Patient Envelopment**

 **TPU Soft Air Cells**

 **Alternating Pressure Relief**

 **Quick Connect Coupling**

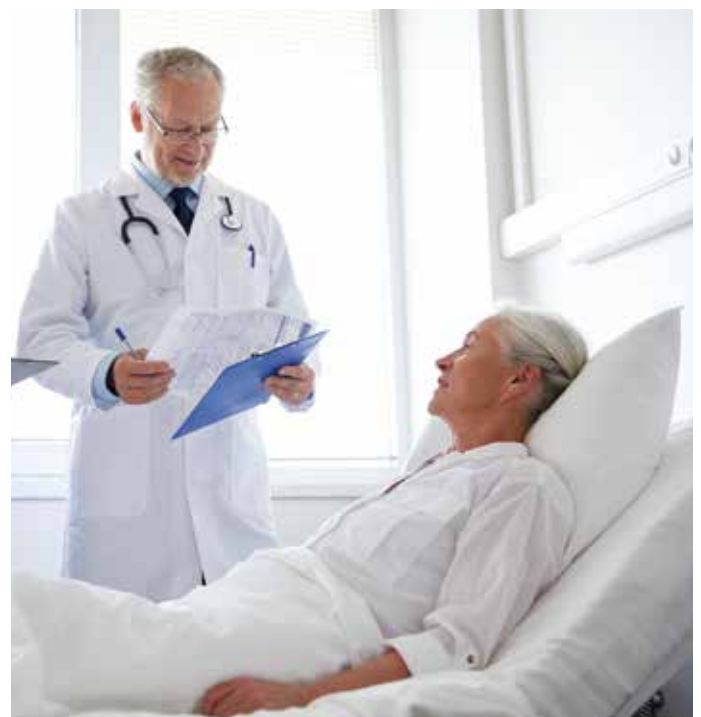
 **Pressure Redistribution**

 **Easy Cleaning**



Dual Plus – Mattress Replacement




Risk/Category	High to Very High
Safe Working Load	30 to 250kg
Air Cell Configuration	20 x 8" Cells including 1 x 5" Bridging Cell (more can be purchased)
Sizes (CM)	Single 90 x 200 x 21 Euro KS 100 x 200 x 25 King Single 105 x 200 x 21
Waterlow Score	20+



Envelop Bariatric

True Automatic Deep Fluid Envelopment

Resna, S31 tested – 79% Immersion. Technology from the future for an ultimate wound care solution. The IPS Technology, works with S.M.A.R.T to create effective envelopment. IPS responds to patient movements on the mattress by automatically adjusting the internal mattress pressure, which allows Envelop to regulate airflow and continuously provide total envelopment for the patient.

-  **Whisper Quiet**
-  **Upright Mode**
-  **MAX Inflation**



-  **Easily Exchangeable Air Cells**
-  **Rapid CPR Deflation**
-  **Infection Control**



Envelop – Mattress Replacement

Risk/Category	Very High
Safe Working Load	Up to 450kg
Air Cell Configuration	21 x 8" Square Cells
Sizes (CM)	Single 90 x 200 x 25 King Single 105 x 200 x 25 Extra Wide 120 x 200 x 25
Waterlow Score	20+



Coziny Plus Paediatric

Carilex Coziny Plus offers wound care therapy designed specifically to take care of children who are at risk of developing pressure injuries, or already enduring distress and discomfort from pressure injuries. Intelligent Pressure Sensing (IPS) Technology, responds to patient movements on the mattress by automatically adjusting the internal mattress pressure, which allows Coziny Plus to regulate airflow and continuously provide total envelopment for our Paediatric patients.



 **Whisper Quiet**

 **Memory Recall**

 **Panel Lock**

 **Alarm Mute**

 **Battery Level LED**

 **Visual and Audible Indicator**

 **Modular Air Cell Construction**

 **Alternating Pressure Relief**

 **DTX Coverlet**

 **Quick Connect Coupling**

 **Easy Cleaning**

 **Child Friendly**



Developing state-of-the-art technology in the prevention and treatment of pressure injuries



Coziny 100 – For Incubator

Risk/Category	Med - High
Safe Working Load	Up to 3.5kg
Air Cell Configuration	46 x 1" Cells
Sizes (CM)	65 x 35 x 3
Waterlow Score	15+



Coziny 200 – For Baby Crib

Risk/Category	Med - High
Safe Working Load	Up to 10kg
Air Cell Configuration	20 x 1.5" Cells
Sizes (CM)	75 x 50 x 7
Waterlow Score	15+



Coziny 300 – For Baby Cot

Risk/Category	Med - High
Safe Working Load	Up to 25kg
Air Cell Configuration	39 x 1.5" Cells
Sizes (CM)	140 x 70 x 8
Waterlow Score	15+

Cari Chair Alternating Air

Mobile Cushion System with Battery Backup

Defying the constraint of time and place for uninterrupted around the clock care. Whenever, wherever, patient's no longer need to be confined to the bed for pressure injury treatments. The Cari Chair system is compatible with a variety of surfaces – chairs, recliners and wheelchairs.



 **Whisper Quiet**

 **Digital LED Screen**

 **Panel Lock**

 **Visual and Audible Indicator**

 **Battery Level LED**

 **Alarm Mute**

 **Anti Skid Security**

 **Washable, Waterproof Cushion Cover**

 **Quick Connect Coupling**

 **Protective PE layer**

 **Multiple Mattress Sizes**

 **Easy Cleaning**



The Cari Chair system is compatible with a variety of surfaces – chairs, recliners and wheelchairs



Cari Chair – Recliner & Chair Long Overlay

Risk/Category	Med - High
Safe Working Load	Up to 150kg
Air Cell Configuration	33 Cells
Sizes (CM)	180 x 50 x 14
Waterlow Score	15+



Mobicare – Wheelchair or Chair Cushion

Risk/Category	Med - High
Safe Working Load	Up to 120kg
Air Cell Configuration	10 x Cells with removable foam base
Sizes (CM)	45 x 45 x 9
Waterlow Score	15+



Mobicare Plus – Wheelchair or Chair Cushion

Risk/Category	Med - High
Safe Working Load	Up to 150kg
Air Cell Configuration	10 x Cells
Sizes (CM)	36 x 45 x 9, 45 x 45 x 9 60 x 45 x 9
Waterlow Score	15+

TheraFlo AP




Low Air Loss

True Low Air Loss!

MICROCLIMATE CONTROL with Deep Breathing Exercise (DBE): Taking greatness to the next level. Advance microclimate control: achieving great comfort with advanced microclimate control. TheraFlo AP provides the utmost all-round comfort for our patient's needs. The multi zoned mattress delivers different pressures to the patient, maximising envelopment.



-  **Patient Envelopment**
-  **Cable Management**
-  **MAX Inflation**
-  **Bridging Cells**
-  **Infection Control**
-  **True Low Air Loss**

-  **Rapid CPR Deflation**
-  **Heel Zone**
-  **Sacrum Zone**



TheraFlo AP – Mattress Replacement

We have two mattress types available:

Model	Theraflo AP 9"	Theraflo AP 7"
Risk/Category	Very High	Very High
Safe Working Load	Up to 280kg	Up to 200kg
Air Cell Configuration	20 x 8" Cells	20 x 8" Cells
Sizes (CM)	Single 90 x 200 x 23 King Single 107 x 200 x 23 Extra Wide 120 x 200 x 23	Single 90 x 200 x 18 King Single 107 x 200 x 18 Extra Wide 120 x 200 x 18
Waterlow Score	20+	20+



Glossary of Terms

Safe Working Load (SWL)	The maximum safe force that a piece of equipment can exert to hold without breaking.
Waterlow Score	Gives an estimated risk for the development of a pressure sore in a given patient.
Alternating Air Pressure	This means that air is pumped into cylinders that are placed parallel to each other inside the mattress. Typically operating in sequence, as one set of cylinders gently inflates, the other set deflates, stimulating blood flow.
Overlay	Device applied over an existing mattress which is designed to provide added pressure relief and comfort.
Mattress Replacement	Entire mattress with built in pressure relief which would replace an existing mattress.
True Low Air Loss	Provide airflow to help keep skin dry, as well as to relieve pressure
Non-powered Mattress	No pump or power required for operation.
Hybrid Mattress	Offers both a non-powered or alternating pressure solution in the one mattress.
Interface Pressure	The pressure exerted by the compression system over the surface of skin.
GELTEX	Clinically proven, breathable, medical grade foam.
Max Inflate	Inflates the entire mattress, so all cells are at the same pressure, suitable for nursing purposes.
Intelligent Pressure Sensing Technology (IPS)	Responds to patient movements on the mattress by automatically adjusting internal mattress pressure.
Low Pressure Alarms	Audible and visual alert to notify when abnormal internal pressure occurs or power outages.
Auto up-right	When the bed is in an upright position, the pump will automatically increase to pressure to prevent 'bottoming out'.
Envelopment	The ability of a support surface to conform, so to fit or mould around irregularities in the body.
Auto-Set	No need to input patient weight, the mattress automatically adjusts to the patient's distribution.
Memory recall	Restores to the previous setting automatically after abnormal power outage.
Dartex	Weldable fabric which reduces the risk of infection by acting as a barrier to fluid ingress and contamination, also, it is easy to clean and highly durable.
Dynamic Therapy	The inflation and deflation of air cells to stimulate blood flow.
Constant Low Pressure (CLP) Therapy	Increased patient areas in contact with the support surface, whereby the pressure at every contact point is reduced.

Our Products

Warranty

1 year Warranty - Coziny Plus Range, Cari Chair Range and Bariatric Systems.

2 year Warranty - on most mattresses and control units

For more detailed warranty, product brochure, pressure mapping information and staff training, please contact K Care on customerservice@kcare.com.au or refer to the website www.carilexmedical.com.au

Improving your life everyday™

At Your Service

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All information is considered to be true and correct at the date of publication. Changes in circumstances after the time of publication may impact on the accuracy of the information.

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