CuroCell® A4 CX20 Plus

With our vision to eliminate pressure injuries, it is essential to adopt a holistic perspective considering everyone at risk - ensuring equal access to care for all.

Since 1975, obesity has nearly tripled worldwide. Individuals with obesity commonly suffer from increased skin fragility, making them vulnerable to pressure injuries and skin tears[9].

CuroCell® A4 CX20 Plus has been designed to prevent pressure injuries and to promote the wellbeing of individuals weighing between 160 kg and 454 kg.



With focus on patient-centered care

CuroCell® A4 CX20 Plus has been developed to allow healthcare professionals to focus on patient-centered care. Using adaptive algorithms and high precision sensors, the system continuously monitors the individual's weight, height and position, adapting to each individual.

If the patient shifts position, the system reacts and adjusts the contact pressure between the patient and the support surface. The outcome is enhanced comfort, reduced risk of cell damage as well as decreased necessity for manual adjustment. This, in turn, simplifies the caregiver's process, ensuring a smoother experience for all involved.

Prevention and treatment of pressure injuries

While prioritizing preventive care is crucial, the Pulsating Mode™ has also demonstrated efficacy as an aid in the actual treatment of pressure injuries. The Pulsating Mode™ has been proven to treat pressure injuries in 30 days[1], compared to the expected healing time of up to 155 days[2].

The cost of pressure injury care decreases significantly when these wounds can heal within a shorter timeframe. The time and care that healthcare professionals need to spend on each patient also decreases, freeing up resources that can be used more efficiently within the healthcare system[10].

Undisturbed sleep and reduced pain

Sleep and a calm environment are key components for recovery and well-being. It is during sleep that the cells in the body are repaired[5][6], promoting wound healing.

The Pulsating Mode™ is developed to improve comfort and stability by reducing movements and fluctuations in the support surface. In addition, the silent running[3][4] of the control units enables conditions for undisturbed sleep and recuperation. In a clinical study, the individuals even reported pain reduction while using a support surface with the Pulsating Mode™[1].

The support surface is designed with a soft inner cover for additional comfort.

Streamline resources and enhance patient safety

The control unit and support surface are CE-marked separately. This signifies that if a control unit needs replacement, the individual unit can be replaced without replacing the entire system.

This approach aims to ensure a more secure experience for the individual by minimizing unnecessary movements of the patient. Additionally, caregivers do not face extra workload or an increased risk of injury, as moving patients poses a high risk of injury to caregivers[10].

Due to the recirculation of air within the support surface, the system does not require continuous operation. This reduces wear and tear, allowing us to offer a service-free system for the initial five years.

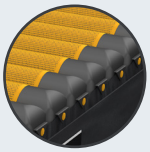
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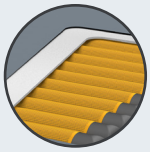
CuroCell® A4 CX20 Plus



Integrated heel function
The support surface is designed with an integrated heel function, where air cells are slightly lower to alleviate pressure on the heels.



To ensure robustness and durability
The support surface is constructed using TPU coated nylon cells to ensure durability.



Designed for enhanced comfort
The support surface is designed with a soft inner cover for additional comfort.



In the event of a CPR-situation
Disconnect the CPR connection from the control unit and leave the lid open to quickly deflate the mattress.



The Pulsating Mode™
By using adaptive algorithms, the Pulsating Mode™ combines soft, alternating movements with constant low pressure to offer a large contact area and to reduce high peak pressures. The Pulsating Mode™ is recommended by Care of Sweden due to its documented clinical effectiveness[1].

Gentle Alternating Low Pressure™ (GALP)
Dynamic program that regularly alternates the air pressure with soft movements to relieve the pressure on the body, offering prevention of pressure injuries and comfort.

Constant Low Pressure (CLP)
In the Constant Low Pressure mode, the pressure is evenly distributed over the entire support surface. In this mode, the cells do not alternate but are filled with an equal amount of air all the time.

Maximum pressure (Caring mode)
The air cells are filled with maximum air pressure to provide stability during bed entry/exit and during patient care. Returns to the previous settings after 20 minutes.

Pack & Go
The control unit deflates the support surface in 20 minutes.

0 +1 +2

Comfort settings
The air pressure can be increased in two stages according to the patient's comfort preferences.

Technical specification

Pressure injury category	Up to and including category IV[5]
Recommended user weight	160 kg up to 454 kg
Type of support surface	Replacement mattress
Size support surface (W x L x H)	90/100/105/120 × 200 cm x 20 cm
Material air cells	TPU coated nylon
Size control unit (D x L x H)	11 cm x 30 cm x 20 cm
Sound level control unit	Max 17 dBA[3], 25 dBA[4]
Output voltage	External 12 V DC power supply
Input voltage	AC100-240V/50-60Hz
Cleaning instruction	Cleaning of cover: wipe with cleaning agent and/or disinfectants. Machine wash max 95 °C, tumble drying.
Optional	Transport bag
CE- marking	Control unit and support surface are registered and marked separatley in accordance with MDR (EU) 2017/745. CE
Other features	Innercover in mesh fabric, replaceable top part, individual and replaceable cells, safety air mattress, carrying handles, heel function, integrated cable holder, PVC-free materials

Covers for hygiene and reduced shear

The support surface is supplied with a removeable and liquidproof hygiene cover for easy cleaning. The hygiene cover is manufactured in a four-way stretch fabric to reduce the risk of shear forces, and is vapour permeable[8] to lower the risk of skin maceration. The hygiene cover also features a liquidproof zipper.

Available covers:



Stone
- Welded seams
- Color: dark grey
- Material: 61 % polyester, 39 % polyurethane coating



Bottom part CuroCell
- Combine with top part Stone
- Color: black
- Material: 100 % polyester polyurethane

MADE IN EU

References
(1) Raepsaet, C., Zwaenepoel, E., Manderlier, B, Van Damme, N, Verhaeghe, S, Van Hecke, A, & Beeckman, D (2021). A fully automated pulsating support system for pressure injury prevention and treatment in 10 Belgian nursing homes: An observational study. Journal of Wound, Ostomy and Continence Nursing, 48(2), 115–123. https://doi.org/10.1097/WON.0000000000000746
(2) Dealey, C, Posnett, J, & Walker, A (2012). The cost of pressure ulcers in the United Kingdom. Journal of Wound Care, 21(6), 261–266. https://doi.org/10.12968/jowc.2012.21.6.261 (3) EN ISO 11201:2010. Acoustics Noise emitted by machinery and equipment Determination of emission sound pressure levels. SP Technical Research Institute of Sweden, 2018. (4) ISO 3746:2010. Acoustics Determination of sound power levels and sound energy levels of noise sources using sound pressure Survey method using an enveloping measurement surface over a reflecting plane. (5) National Pressure Injury Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline: Fourth Edition. Emily Haesler (Ed). 2025. (6) Centers for Disease Control and Prevention (2003). Guidelines for Environmental Infection Control in Health Care Facilities. Updated 2019. (7) SS 876 00 20:2017. Healthcare textiles Mattresses Specifications and requirements. (8) SS EN ISO 15496:2004; DIN 53122 1. Textiles Measurement of water vapour permeability. (9) McClean, K, Cross, M, & Reed, S (2021). Risks to healthcare organizations and staff who manage obese bariatric patients and use of obesity data to mitigate risks: A literature review. Journal of Multidisciplinary Healthcare, 14, 577–588. (10) Wound Management & Prevention, 60(1), January 2014. Providing Quality Skin and Wound Care for the Bariatric Patient: An Overview of Clinical Challenges. ISSN 1943 2720.

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