



**CuroCell® A4**

**For good comfort  
and easy of use**

 **care of sweden**  
SUPPORTING LIFE

# With both the users and the caregivers needs in focus

CuroCell® A4 is an automatic air mattress system that is designed to offer the user good comfort, while also saving time and resources in working to prevent pressure ulcers up to category IV. CuroCell® A4 is designed with innovative technology to make the system simple and safe to work with. The mattresses are designed to contribute to the reduction of shear forces and provide a good microclimate, as well as contributing to a reduced workload for the caregiver.



The same  
control unit goes  
with all the  
mattresses.

## CuroCell® A4 is available in the following models:

CuroCell® A4 OP10: 10 cm overlay mattress up to 160 kg

CuroCell® A4 CX10: 10 cm overlay mattress up to 200 kg

CuroCell® A4 CX15: 15 cm replacement mattress up to 220 kg

CuroCell® A4 CX16: 16 cm replacement mattress up to 200 kg

CuroCell® A4 CX20: 20 cm replacement mattress up to 250 kg

**CuroCell® A4 is also available in a manual version, CuroCell® M4**

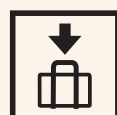
**“The pump feels advanced but is still easy to use. The display is easy to understand and control. Also, the pump is so quiet I wasn’t sure it was actually running!”**

Petra Mellberg, Nurse, Helsingborg Municipality



### **For an improved microclimate**

Air Flow Control™ is a technology that provides a constant temperature and increased user comfort. The air in the cells is reused, which reduces the electricity consumption and noise.



### **Pack & Go® simplifies deflation**

With the Pack&Go® function, a press of a button is all that’s needed to empty the mattress of air. Staff can easily pack the mattress away, and avoid having to manually squeeze the air out of used and contaminated products.

## **Simple and flexible to work with**

The control unit automatically adjusts the settings after the user’s weight, length, and position, which means that no manual settings are required. The same control unit can be used with all the mattresses in the CuroCell® A4 range. The control unit is designed with a user-friendly interface aimed to make it easy to manage the system.

The control unit runs on low voltage (12 V), which decreases the risk of an electrical shock if the power cord should be damaged in the bed. With the CPR connection, the mattress will immediately deflate so that CPR can begin. Inflation is maintained in a power failure. The control unit gives off an automatic notification if pressure deflates.

# CuroCell® A4 is developed with the pulsating mode

Based on good clinical results and a documented good comfort, CuroCell® A4 is supplied with the pulsating mode set as default. The CuroCell A4® can also be set with two other traditional clinical programmes, alternating mode or constant low pressure.

## How does the pulsating mode work?

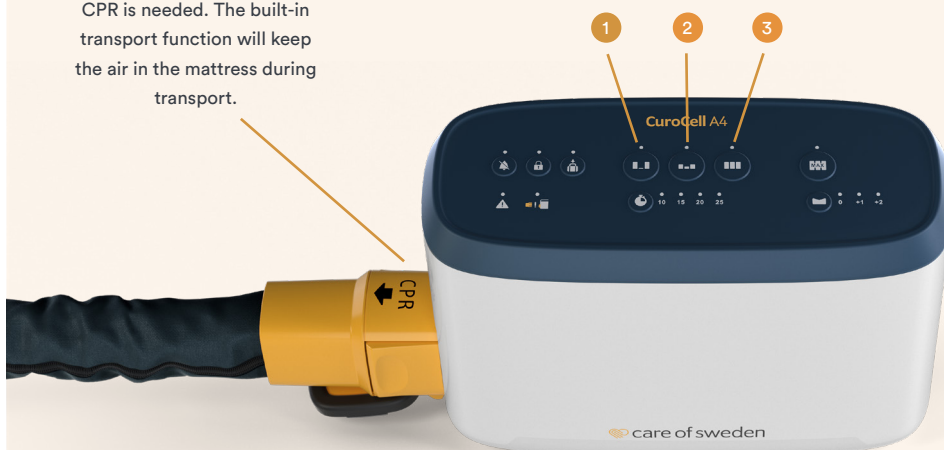
The pulsating mode combines pressure-relieving effect with the benefits of constant low pressure (reduced maximum pressure). The pulsating mode means that the pressure in the mattress alternates and that the cells are emptied on air, but not completely. This mode gives off a lower maximum pressure against the skin and less movement on the mattress, which increases stability and comfort. The pulsating mode's clinical effect has been examined in scientific studies where both tissue perfusion, and preventative- and treatment effects have been measured.

## Good results of the pulsating mode in clinical study

In a study performed by the University of Southampton the pulsating mode was compared to both the alternating mode and the constant low pressure mode. The study included 12 voluntary participants, lying in various positions where tissue pressure, oxygen and carbon dioxide pressure was measured. The result of the study showed that the pulsating mode was the most effective way to assure an even blood flow in the user's tissues.<sup>(1)</sup>

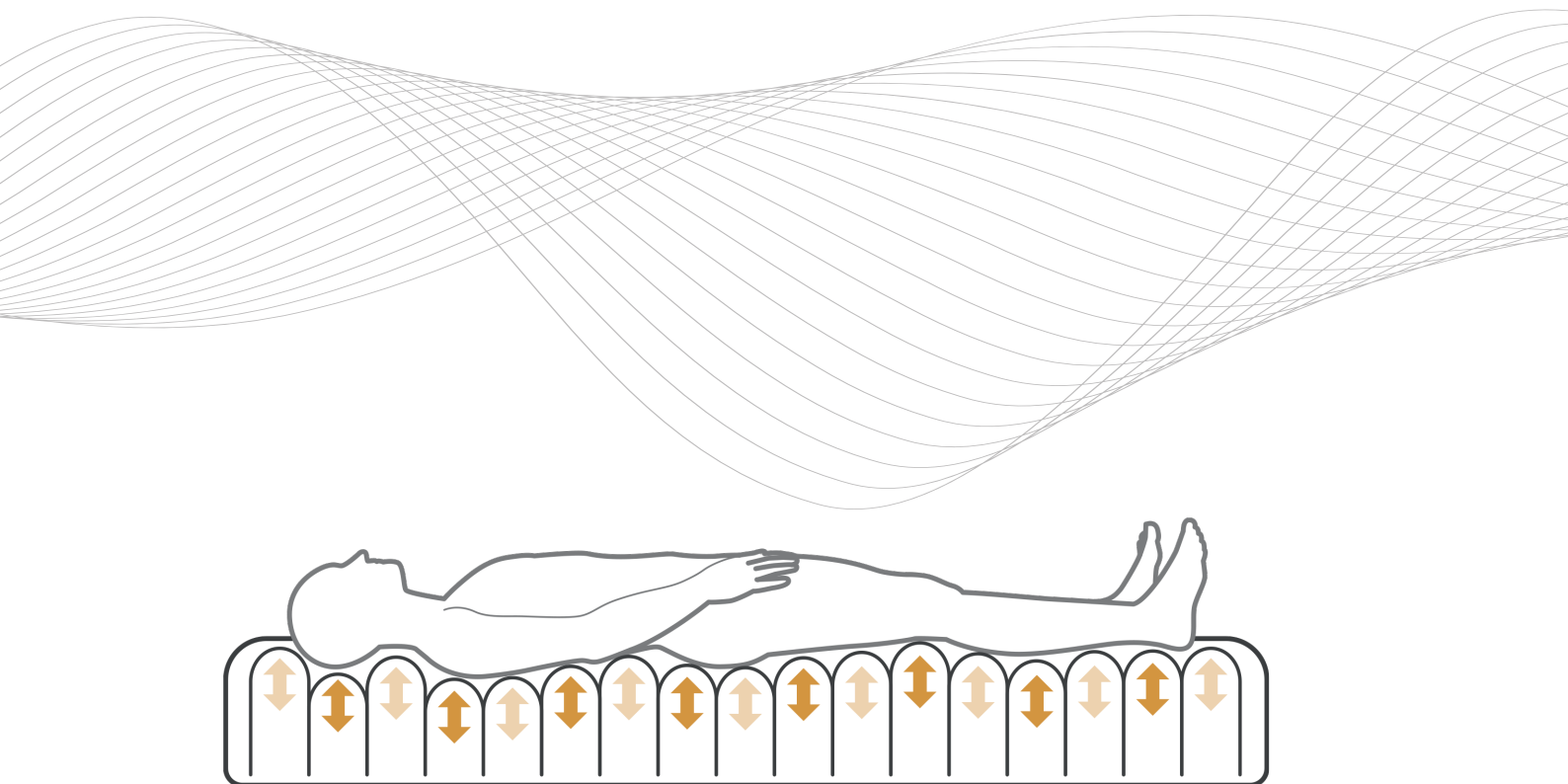
<sup>1</sup> Worsley P, Dr Bostan L., Bader D. Investigation of the biomechanical and physiological responses to prolonged lying postures during three mattress modes. Report from University of Southampton, 2018.

Remove the connection if CPR is needed. The built-in transport function will keep the air in the mattress during transport.



## Comfort modes

- 1 Alternating mode
- 2 Pulsating mode (default)
- 3 Constant low pressure



The clinical effect of the pulsating mode has been investigated in scientific studies where both tissue perfusion, as well as prevention and therapeutic effect is measured.<sup>(1)(2)</sup>

## Proven for both prevention and treatment

A clinical study was performed together with Gent University that included 40 users with a high risk of developing pressure ulcers from 10 different nursing homes in Belgium. The study showed good clinical results of the pulsating mode. The participants were divided into two groups and the study evaluated comfort, prevention, and treatment effects. The follow-up period was 30 days.

Only one pressure ulcer was developed with the use of the pulsating mode, which is a relatively low cumulative pressure injury incidence. The users perceived the mattress as being both quiet and comfortable. Users with already existing pressure ulcers were included in the treatment group. The healing process was followed up daily, and after 30 days all pressure ulcers except for one had improved and four pressure ulcers had healed completely.

<sup>1</sup> Zwaenepoel, E., et al., Int Wound J, 2020 17(1).

<sup>2</sup> Worsley P, Dr Bostan L., Bader D. Investigation of the biomechanical and physiological responses to prolonged lying postures during three mattress modes. Report from University of Southampton, 2018.

## **”Pedagogic, simple and easy to use”**

The program settings are simpler than many of the products I've worked with previously. This system feels pedagogic, simple and easy to use. It's now easy to tell the difference between the various programs.

The CPR function too is far simpler and easier. The CPR marking is clearly visible and it's not concealed on the mattress. The Pack&Go® function is a real benefit in my opinion. It means we'll no longer have to lay on the mattress to squeeze all the air out.

**Jesper Nilsson, Nurse responsible for mattresses, Svenljunga**

## **”Despite its advanced functions the system still feels simple and flexible”**

The new CPR connection and the transport function are great. It means greater peace of mind for me, unlike with other systems where I reach the bed frame before I get to radiology.

The system's also great if there's a power outage, as it maintains the air levels for up to eight hours. The position of the display above the pump makes life easier for me as I'm partly disabled. Despite its advanced functions the system still feels simple and flexible.

**Mikael Bynander, home user**

## Award-winning design

Care of Sweden's automatic products in the CuroCell® range have been internationally rewarded for its design.



Care of Sweden is an innovative company in the medtech sector, devoted to the cause of eliminating pressure ulcers around the world. Our product range covers mattresses, positioning pillows and seat cushions, used as an aid in the prevention as well as treatment of pressure ulcers. Our head office, R&D and production are located in Tranemo, western Sweden, and our products are used in care facilities across Sweden as well as in many other parts of the world.

