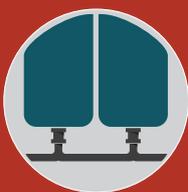


OPTICELL Air1

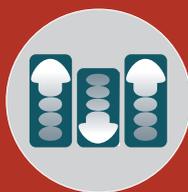
Simplify your daily tasks with our comfortable air/foam hybrid mattress, ensuring both safety and tailored comfort for every patient.



REACTIVE COUNTER PRESSURE
WITH INTERCONNECTED
AIR CELLS.



LOW PRESSURE
AUTOMATIC ADJUSTMENT
FOR ALL USER WEIGHTS



**ALTERNATING OR
STATIC AIR PRESSURE**
(MODELL AIR1 S)



MULTI-ZONE RELIEF
TO RELEASE CELLS
EASILY WITHOUT TOOLS



HYGIENE CONTROL
WITH THE OPTITEX
4-WAY STRETCH COVER



Provide high comfort and good pressure ulcer care to your patients

Air1 provides reactive and dynamic pressure adjustment across the entire surface of the mattress, leading to an even and efficient pressure distribution. This ensures patient comfort and reduces the risk of pressure ulcers. A key feature in achieving this is Air1's interconnected air cells. These are completely foam-free, designed to provide consistent and reliable pressure relief over time. The closed-loop air system allows air to be automatically and instantaneously moved from pressurised areas to less-pressurised ones.

Another great advantage of a closed air system is that you can easily **check and adjust the air pressure** in the cells. This ability to personalise the mattress is important for both comfort and therapeutic properties.

Designed for a hygienic and safe environment.

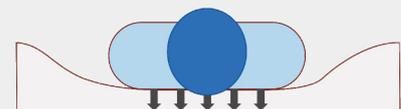
The closed air system is also an important advantage from a hygiene perspective, as it does not let air out of the mattress. This reduces the risk of airborne particles and bacteria, which may have accumulated inside the mattress, spreading in the room. Together with the hygiene cover, which has welded seams and waterproof zips on all four sides, **the Air1 is a hygienic and safe solution for both patients and staff.**

The two most vital biomechanical properties for good pressure relief^[1]

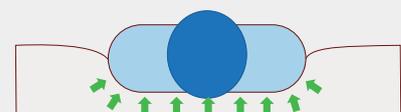
The design of Air1 favours the two most important biomechanical properties for good pressure relief: Immersion and Envelopment. These properties are crucial for reducing the risk of pressure ulcers, especially for patients with reduced mobility or pain issues.

Immersion: The surface of the mattress moulds to the patient's body weight and allows it to sink to a suitable depth. This distributes the body weight over a larger surface area, reducing pressure on vulnerable points.

Envelopment: Air1's design adapts to the contours of the body. It 'envelops' the patient with a soft and even support to smooth out pressure peaks, thereby contributing to a calm and stable comfort.



Immersion



Envelopment

Flexible individual adaption

To suit different patient needs and beds, we offer Air1 mattresses in two heights: R7 (18 cm) and R8 (20 cm). Both of these designs can be combined with the solution that suits your needs.

The Air1 comes standard with a manual pressure gauge for easy control and adjustment of pressure. This feature allows you to personalise the mattress to the user's unique needs and preferences, so you can easily lower or raise the air pressure for customised comfort. Experience a completely silent sleeping environment - without the disturbing noise of an electric pump - contributing to a calm and peaceful atmosphere for the patient.

Air1 S is offered when there is a need for extended functionality. The Air1 S combines the Air1 mattress (in both R7 and R8 versions) with our quiet and proven OC20 air pump. This pump continuously monitors and optimises the air pressure in the mattress, and also offers an alternating function for extended pressure relief. With thousands of installations in operation and few interruptions, the OC20 is a reliable component to rely on for stable and efficient pressure relief.



Pump OC20 for extended features

MATTRESS-MODEL	MATTRESS HIGHT	MAX USER WEIGHT	WOUND CATEGORY
Air1 R7	18 cm	230 kg	3
Air 1 R8	20 cm	250 kg	3
Air1 S R7	18 cm	230 kg	4
Air1 S R8	20 cm	250 kg	4

” I had gotten used to the pain of lying in bed, but then I had the opportunity to try an Air1 and I was free of my problems.

Britt-Marie, 74. Long-term pressure ulcer problems

Integrated evacuation function for increased safety.

To meet healthcare needs for safe evacuation, Air1 models can be supplied with a cover that has an integrated evacuation function. This is particularly important for patients on the Air1, as they are often the most difficult to self-evacuate in emergency situations such as fire.

Thanks to the well thought-out design, evacuation can take place safely with the patient remaining on the mattress. The function is tested and fulfils Swedish standard SS 876 00 39:2022.

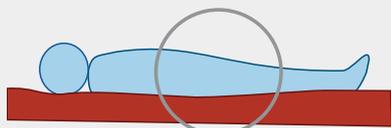


STANDARD SIZES 200/210/220 X 80/85/90/105/120 x 18/20 cm. ■ **MATERIALS** Base in HR foam and hypersoft foam at the top. Integrated replaceable cells made of soft nylon/TPU. ■ **HYGIENE COVER** OptiTex 4-way hygiene cover in soft, elastic PU. ■ **PUMP** OC20, a pump that adjusts to the user's weight. ■ **SOUND LEVEL** 21 db. ■ **FIRE SAFETY STANDARD** SS 876 00 01, EN 597-1 and 2. ■ **WEIGHT** Mattress (200 x 90 cm) 12.6 kg, pump 3.4 kg.

Objective test of pressure relief

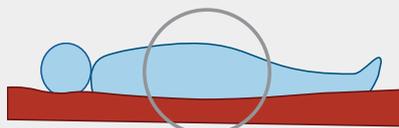
To ensure high comfort and effective pressure relief, our mattresses are tested by the Swedish Research Institute, RISE. The tests follow the Swedish standard SS 8760013:2017, a method that objectively measures the mattress's ability to distribute pressure. This ensures an objective assessment of the mattress's counter pressure under load.

The pressure tests are carried out with different indenters to simulate varying loads and body contacts, providing a comprehensive picture of the mattress's pressure-relieving capabilities.



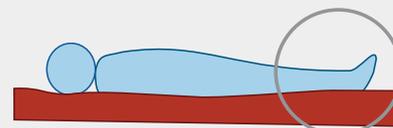
Large indenter, 300 N

Simulates pressure from a user weighing approximately 80kg lying on their back in bed.



Large indenter, 600 N

Simulates pressure from users approx. 120 kg, or users sitting up or lying on their side.



Small indenter, 40 N

Simulates the pressure of protruding body parts such as heels, elbows or shoulders.

We then assess test results according to a scale where lower values in mmHg indicate more effective pressure relief.

Load capacity	Extra low	Low	Medium	High	Extra high
Large indenter 300N	≤ 30,0	30,1-34,9	35,0-39,9	40,0-44,9	≥45
Large indenter 600N	≤ 45,0	45,1-52,9	53,0-60,9	61,0-68,9	≥69
Small indenter 40N	≤ 45,0	45,1-52,9	53,0-60,9	61,0-68,9	≥69

Air1, the pressure results speak for themselves

Although our design predicted an effective hybrid mattress, the tests of the Air1 showed a remarkably low counter pressure. The measured values from all three indenter bodies placed in the 'Extra Low' category.

These results give us confidence in recommending Air1 for the most fragile and vulnerable patients.

Air1 R8	Extra low	Low	Medium	High	Extra high
Large indenter 300N	26	-	-	-	-
Large indenter 600N	45	-	-	-	-
Small indenter 40N	42	-	-	-	-

Get advice from our specialists

Contact Järven Health Care today for personalised advice and a demonstration from one of our product specialists. We will help you find the best solution for your specific needs.

healthcare@jarven.se

+46 (0)660-22 28 50



Bromsvägen 3 | SE-891 60 Örnsköldsvik | SWEDEN
 Phone: +46 (0)660 - 22 28 50
www.jarven.se | healthcare@jarven.se



OptiCell AB

Bromsvägen 3 | SE-891 60 Örnsköldsvik
 Telefon: 0660 - 22 28 50 | Fax: 0660 - 824 10