



Revolution



airflex - a simply ingenious principle

Our **airflex** products are based on an unique patented system of air chambers, to assist and support the user's movements and postures. **airflex** reverses the situation: Not the user has to adjust his body to the seating surface the best he can. Instead the seating pad perfectly adapts itself to the human body individually.



airflex Inlet Seat Cushion

Air is the ideal medium: Nothing is more flexible, more adaptable and is less subjected to gravity. Using the airflex system enables the user to freely determine any position. The air chambers follow and gently support all movements while providing stability.

Our solutions for the rehabilitation sector:

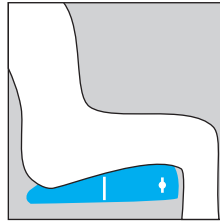
- the **airflex** Wheelchair Seat Cushion
- the **airflex** Wheelchair Back Cushion



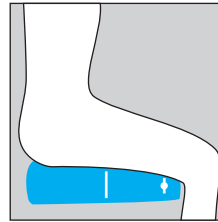
Introducing: **airflex**

- the wheelchair seat cushion with the license for optimal seating.

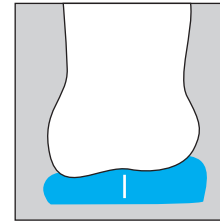
airflex revolutionizes wheelchair sitting: it enables the wheelchair user to effortlessly experience active-dynamic sitting, which has been promoted to pedestrians for many years.



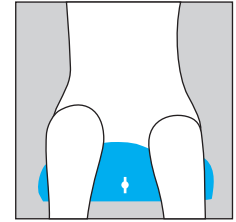
Pressure relief of the
Ischial tuberosities



Seat wedge function



Pelvic misalignment



Thigh support

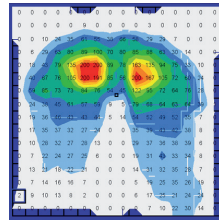
Valves control the circulation of air between the interconnected air chambers. This allows the seat contact surface to be precisely adjusted to the user's specific needs and to be easily changed as often as desired. This is achieved without time-consuming repumping.

An optimal seating position provides the wheelchair user with high levels of security to control the wheelchair - while reducing the user's effort at the same time. The **airflex** Wheelchair Seat Cushion provides the ability to easily balance different leg lengths and pelvic obliquity. Optimal pressure distribution is achieved even in the case of a lower leg amputation.

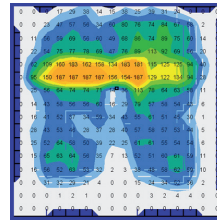


airflex - allowing postural freedom

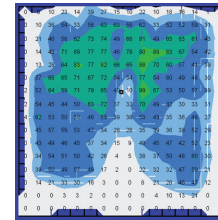
Through shifting of body weight, the upright seating position can be improved, but can also be positioned and adjusted with a narrower seat angle in the hip area. The frequent postural changes and the pressure relief of the buttocks reduce the risk of pressure ulcers to a considerable extent.



a



b



c

Contact pressure
distribution when sitting

- a on wood
- b on a normal seat cushion
- c on an airflex seat cushion

The mobility of the pelvis is the basis for a healthy back. Every pelvic movement is transmitted to the spinal column. Hence an increased level of pelvic mobility creates an increased level of flexibility of the individual spinal segments and the surrounding supporting muscle structure.

Due to the resulting improved metabolism, the stress and wear situation of the inter-vertebral disc system is reduced. Fatigue is prevented. In this sense, active-dynamic sitting can be viewed as a simple and convenient form of back training to prevent back pain and to alleviate already existing back pain.



airflex - custom-made options

In addition to our standard sizes, we also offer made to measure solutions to best meet patient needs. A thigh-conditioning can be optionally attached underneath the cushion cover consisting of a variable air chamber, which has to be positioned to spread the thigh.



a



b



c



d

- a Inlet from a PU foil with a core of foam enabling self-ventilation
- b Incontinence-Cover to protect the internal foam frame
- c 2 cm thick spacer material - available in multiple layers - for an improved microclimate
- d Wheelchair seat cushion with cover (anti-slip material at the undersurface and with velcro strips to secure mounting on the seat)

The **airflex** wheelchair cushion is available in the following standard sizes:

40 x 40 cm (16 x 16 inches)	43 x 40 cm (17 x 16 inches)	45 x 45 cm (18 x 18 inches)
40 x 45 cm (16 x 18 inches)	43 x 43 cm (17 x 17 inches)	45 x 50 cm (18 x 20 inches)
40 x 50 cm (16 x 20 inches)	45 x 40 cm (18 x 16 inches)	50 x 40 cm (20 x 16 inches)

Indicated dimensions are rounded to the nearest inch.

Thickness is always 7,5 cm (3 inches).





airflex - yet another innovative
product by **VAKUFORM®**

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