High comfort and pressure redistribution with responsive SmartCell™ Technology
The Invacare Vicair Academy mattress provides a unique combination of superior pressure redistribution, comfort and optimal positioning, making it suitable for clients at ‘Very High Risk’ of developing pressure ulcers. Using static air therapy the mattress offers a supportive dynamic service that minimises shear and friction forces.

How SmartCell™ air technology works

Vicair® technology offers ultimate pressure redistribution, stable positioning and comfort using SmartCell™ Technology

The Vicair SmartCell™ technology is a unique and innovative therapy, that provides the movement of a dynamic surface, whilst also providing a supportive interface. Hundreds of small triangular shaped air filled cells (SmartCells™) provide the optimum patient interface. The small air filled cells are contained in strategically placed individual compartments, which offer a pressure redistribution surface with the comfort of patient immersion. The flexible, fabric coated SmartCells™ have a low friction level, so when they are in contact with each other they continuously adapt and conform to the body’s contours. The Vicair Academy mattress is composed of 36 SmartCell™ sections, individually divided and pliable, thereby minimizing shear and friction forces, and redistributing tissue interface pressure.

Vicair Academy 415 offers support when patient lying down or in upright position

Poor posture can greatly increase the risk of shear, a major contributing factor to the development of pressure ulcers. The Vicair Academy mattress can be adjusted in SmartCell™ density and customised to fit the patient’s body, offering tailored postural support, helping to minimise the risk of tissue damage from shear. SmartCells™ provide a dynamic surface that can be adjusted to accommodate a range of postural asymmetries and patient conditions.
Features and options

Vicair Academy mattress construction
As well as compartments filled with SmartCells™ to assist with the maintenance of stability, the Academy mattress also has a sturdy foam base layer. The compartments themselves are contained in a loosely fitted waterproof outer cover. This extra material ensures the effects of ‘hammocking’ are minimised, ensuring optimum interface therapy. To safeguard that sheets are not fitted too tightly, the mattress has double rings on each corner to secure corners loosely.

Transportation and storage
The mattress weighs only 10 kgs, can be folded for ease of storage and has 4 carrying handles for transportation.

Effective therapy for the prevention of pressure ulcers
The component parts of the Vicair Academy 415 mattress allow for a dynamic non-powered support surface that offers therapeutic benefits to the patient.

The innovative design of the SmartCell™ results in a mattress that is safe, effective and easy to maintain with the benefit of being lightweight. There is no risk of mattress deflation; in the unlikely event of a SmartCell™ being damaged, a replacement can be obtained and replaced easily with minimal disruption to patients or staff.

Suitable for patients at ‘Very High Risk’ of developing pressure ulcers the Academy 415 mattress greatly reduces friction and shear forces even when the patient is sitting in an upright position. Its design can be useful in cases such as rheumatism, burn injuries, cancer, terminal illness, spasms, kyphosis and in pain management, with cells moving independently of each other and continuously adjusting to immerse the patient’s body.

Its innovative design can be an effective support surface for patients experiencing high levels of pain, body spasm or postural alignment issues, in situations where other mattress types have proved to be uncomfortable. Available in standard and plus (bariatric) sizes, the Vicair Academy 415 mattress can accommodate many different patients in the community or acute environment.
Technical data

For more comprehensive pre-sales information about this product, including the product’s user manual, please see your local Invacare website.

<table>
<thead>
<tr>
<th></th>
<th>Std. width</th>
<th>Std. length</th>
<th>Height</th>
<th>Total product weight</th>
<th>Max. user weight</th>
<th>Max. cleaning temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARM415</td>
<td>800, 850, 900 mm</td>
<td>1950, 2000, 2050, 2100 mm</td>
<td>150 mm</td>
<td>10 kg</td>
<td>250 kg</td>
<td>60° (outer cover)</td>
</tr>
<tr>
<td>ARMS</td>
<td>1150, 1200 mm</td>
<td>2000 mm</td>
<td>150 mm</td>
<td>10.5 kg</td>
<td>500 kg</td>
<td>60° (outer cover)</td>
</tr>
</tbody>
</table>

Colour

Navy blue

Please notice colors may vary slightly from those displayed above.

Fire Retardant

Essential nursing care is pivotal in pressure ulcer prevention. This mattress will positively contribute to the outcome of a pressure ulcer prevention care plan. Education, clinical judgement and action based planning based on vulnerability are fundamental factors in the prevention of pressure ulcers. A range of assessment scales can be used as a formal method of assessing risk from pressure ulcer development, and should be used in conjunction with an informal assessment (informed nursing judgement). Informal assessment is considered to be of greater importance and clinical value.