

**VICAIR**<sup>®</sup>  
the best in body support



## ACADEMY MATTRESS 415

User manual

CE

## AVAILABLE SIZES

	CM	INCH
Adult	80x200	32x80
	90x200	36x80
Paediatric	68x140	27x56

\* Width x Length

Special sizes and custom made products on request.

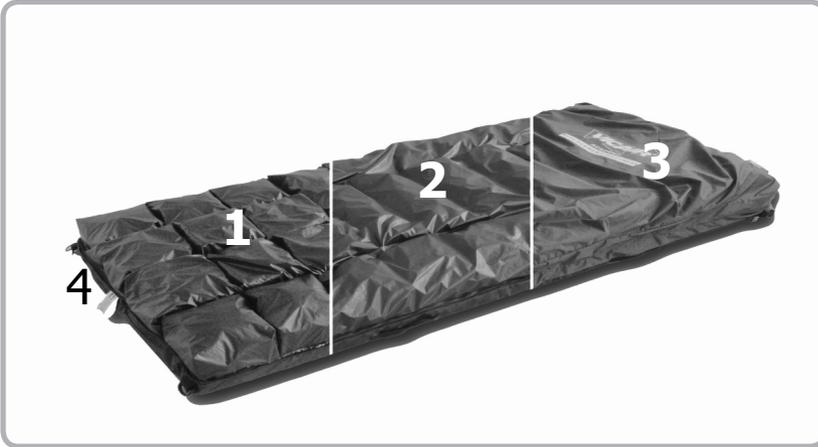


fig. A



fig. B



fig. C

## INTRODUCTION

The Vicair® Academy Replacement Mattress 415 is designed for patients who have a highly increased risk of decubitus, and for patients who have Stage I-IV decubitus but are relatively mobile. Please read the whole manual before use.

For a schematic display of the mattress, see the cut-away view A and figures B and C.

### **Inner mattress**

The inner mattress is made of compartments (fig. A-1). Each compartment is filled with a specific number of triangular, air filled SmartCells™ which allow optimum pressure distribution. To reduce shear forces, a layer of smooth fabric (fig. A-2) is fitted over the mattress.

A foam layer is incorporated in the base of the mattress for extra stability. The compartments can be accessed from the underside through zippers (fig. B).

### **Outer cover**

The outer cover (fig. A-3) is made of low-friction waterproof material. The cover fits loosely over the inner mattress, to prevent "hammocking" and to allow sufficient immersion into the mattress. Always use the mattress with the outer cover in place.

### **Head and foot end**

The mattress has a head end and a foot end, indicated by a label (fig. A-4) and pictograms on the cover.

### **Information panel**

A zippered pouch at the foot end contains an information panel, showing the mattress type and important user information (fig. C). This is especially useful for institutional use.

### **Carrying handles**

Each side of the mattress is fitted with carrying handles, which are strong enough to enable an emergency evacuation with a patient on the mattress.

### **Fixation rings and buckles**

The corners of the mattress are fitted with double rings for loosely attaching the bed sheet. Two buckles are fitted on the head side to connect an extension piece.

## INSTALLATION

The Vicair® Academy Replacement Mattress 415 is ready for use.

We recommend to carry out the following checks during first use, preferably together with your caregiver/therapist.

### **Checking the mattress size**

Make sure the mattress fits the dimensions of the bed on which it is to be used.

The mattress can be profiled to any desired position of the bed frame.

### **Checking for “bottoming out”**

Your body should be fully supported so that no part can make contact with the bottom layer of the mattress. Checking for “bottoming out” should be done during first use and after adjustments to the mattress filling.

Do not use the mattress if bottoming out occurs. In most cases, adjusting the filling grade of the compartments will solve the problem.

### **Adjusting the mattress filling**

If necessary, the firmness can be adjusted by removing (or adding) cells from the various compartments of the mattress.

## USE

### **Checking for redness of the skin**

Check your skin regularly for redness, especially during the first few days. If severe redness occurs, stop using the mattress. Consult your therapist or dealer.

### **Making transfers**

Make sure to have a good support during transfers to and from the mattress. Make the transfer with the bed in its lowest position and preferably while slightly leaning backward (knees higher than hips). Take care not to slide off the low-friction cover when sitting on the edge of the mattress.

### **Use at high altitude**

Because each SmartCell™ is filled with air, the mattress may behave differently when used at high altitude or in an aeroplane. Under such circumstances, the firmness of the mattress can be adjusted by removing a few cells from each compartment. Vicair recommends not to use the mattress above 2400 m (8000 ft) ASL (above sea level).

### **User weight**

Maximum user weight 250kg.

## **Transferring the mattress to another user**

Before allowing a second person to use the mattress, clean the inner mattress and wash the outer cover. Disinfect both parts. Make sure the mattress is correctly adjusted to the second person.

## **Resuscitation**

The mattress provides a firm enough support to allow resuscitation (CPR). It is not necessary to use a support (crash) board.

## **Replacing the outer cover**

Under normal use, Vicair recommends replacement of the outer cover every year. Replacement covers can be purchased separately.

## **Flammability**

Do not use or leave the mattress close to a naked flame or a high temperature heat source.

## **MAINTENANCE AND CLEANING**

 **Caution:** Do not steam clean or autoclave the mattress. The mattress cannot withstand excessive heat or pressure.

## **Checking for wear and deflated cells**

Every three months, check the mattress for wear and deflated cells. In case of serious damage, or a large number of deflated cells, stop using the mattress. Consult your dealer.

## **Cleaning the inner mattress**

- Wipe the inner mattress with a damp cloth using a mild detergent. Difficult spots or stains can be cleaned by first saturating the spot and then using a soft brush to loosen the dirt.
- Do not use aggressive or abrasive cleaners or sharp objects to clean the inner mattress.
- Do not immerse the inner mattress in water or any other liquid.
- Do not wash the filled inner mattress, or the cells, in a washing machine.

## **Cleaning the outer cover**

The outer cover can be machine washed. See the instructions on the label attached to the inside of the cover.

## **Disinfecting the mattress**

If spilt fluids have contaminated the inner mattress as a result of severe incontinence, and when transferring the mattress to another user, the mattress must be cleaned and disinfected to avoid cross contamination.

- Remove all cells from the inner mattress. Note the number of cells in each compartment.
- Remove the foam layer.
- Machine wash the empty inner mattress at 60° C.
- Use a mild detergent to clean the individual cells, and then spray disinfectant on them.
- Machine wash the outer cover using an anti-bacterial agent.
- Allow all parts to dry and re-assemble the inner mattress.
- Spray disinfectant on the outer cover and the inner mattress.

## **WARRANTY**

Vicair offers a limited warranty against defects in workmanship and materials for a period of five (5) years from the original date of purchase, provided the product has been used normally. Any damage arising from abnormal use, or caused by improper handling, cleaning or negligence is excluded from this warranty. Should a defect in materials or workmanship occur within five (5) years from the original date of purchase, Vicair will, at its own choice, repair or replace the product free of charge. The outer cover is excluded from this warranty.

Remedies for breach of express warranties herein are limited to repair or replacement of the product. In no event shall damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold.

For additional product information, see our website: [www.vicair.com](http://www.vicair.com).