

## Safety Features

One of the best features of the Defender II is the low-pressure alert. If the pressure in the primary section of the cushion should become low for any reason, the controller would emit both a visual and audio alert. Each air cell also has a foam insert to prevent bottoming out in case of major damage to the cushion.

## System Components

The Defender II includes a custom made cushion; cushion cover, controller, and controller cover with Velcro mounting straps.

## Cushion Sizes and Customization

Because every Defender II is custom built, the cushion will be made to the exact size needed and to accommodate the client's specific physical characteristics. In other words, no standard sizes, but rather the correct size. The cushion can support weights in excess of 400 lbs. and bariatric sizes can be made.

## Demo Program

Aquila offers a 15-day demo program so clients can experience the actual results of a Defender II for themselves before making a full purchase decision. A Defender II cushion system can be custom made just for the client to try. There is a non-refundable \$125 for the 15-day trial. If the decision is made to purchase, the entire \$125 is applied toward the purchase price.

## Warranty

A one-year warranty is included with the purchase price of the Defender II and covers any manufacturer's defect to any part of the system.

### Conversion to an Airpulse PK automatic cushion system

The Defender II manually operated cushion system was designed for clients who are at medium to low risk of pressure sores. Should the client's situation change in the future to high risk, The Defender II can be converted at Aquila to an Airpulse PK automatic, alternating pressure cushion system. The Airpulse PK was designed for those who currently have or are at high risk of pressure sores. Ask the customer service department for details.

## Service Department

All our products are made in America at Aquila's facilities and are backed with a full-time service department that strives for same-day turnaround should any retrofitting, repair, or conversion be needed.

## Product Availability

The Defender II cushion system is available through most Durable Medical Equipment Dealers, or you can contact Aquila directly for assistance.



## Military Veterans

The Defender II is on the Veteran's Administration GSA FSS government contract (#V797P-3951K). Contact your local VA facility for information.

## Contact Us

Our customer service department is available to answer any questions you may have. Office hours are weekdays from 9 a.m. to 5 p.m. (CST)

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Defender II is Patented

TWO ZONES OF PRESSURE RELIEF

# DEFENDER

## II

A manually operated cushion system to prevent pressure sores.



Featuring a controller for easy operation and accurate inflation.

**AQUILA** CORPORATION  
Seat Cushion Systems

**The Defender II cushion system is designed for those at medium to low risk of pressure sores**

The Defender II is a two-zone, manually operated air cushion system that lets you apply minimal pressure exactly where it is needed most, at the bony area of the posterior. You get excellent overall pressure relief, but most importantly, extremely low interface pressure at the area most prone to developing pressure sores – the cheek bone (ischial) and tail bone (sacral) areas of the posterior.

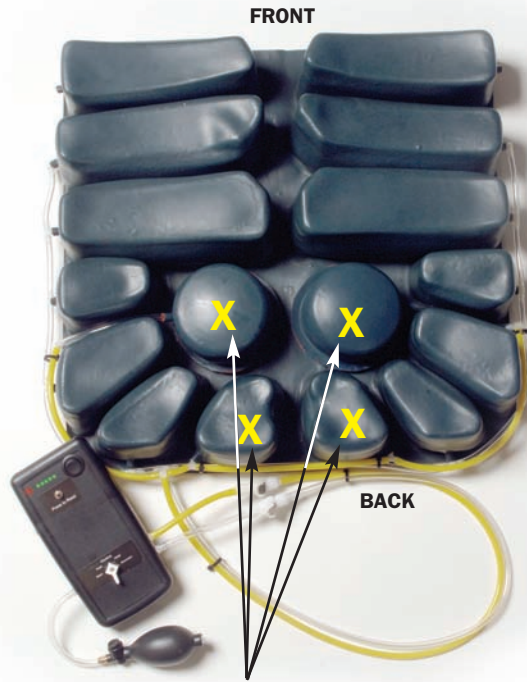
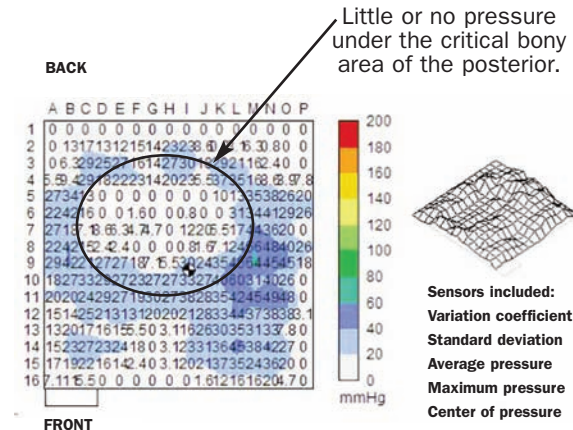
**The Defender II is superior to other air cushions**

The Defender II is much more than just another simple air cushion like so many others on the market – it is a complete system. With the two-zone cell configuration of the cushion and the integrated controller, the Defender II is both easy to operate and extremely effective in preventing pressure sores. By using the controller to manipulate pressure levels and locations, the cushion can be quickly adjusted to address changing needs.

**Why the Defender II helps prevent pressure sores**

A key element to avoiding pressure sores is maintaining circulation to the tissue. Studies have shown that pressure of 32 mm Hg or less will allow blood to circulate into compressed tissue. Pressure mapping has proven that the interface pressure achieved with the Defender II is far less than 32 mm Hg.

*(See pressure map sample below.)*



The cells marked with an X in the photo above are located under the critical bony area of the posterior and can be inflated to a lower level for optimal relief.

**The Defender II System**

There are two main components to the Defender II cushion system: the multiple air-cell cushion and the controller. The controller is connected to the cushion with flexible tubing used to transfer the air from the controller to the cushion. The controller can be easily disconnected at any time without affecting the air pressure in the cushion.

**The Cushion**

The cushion is divided into two groups or zones of air cells, the primary and secondary groups. The secondary group (marked with X in the photo above) typically includes the cells located under the ischial and sacral area, and the primary group includes all other cells. Because every Defender II cushion is custom made, a different cell configuration can be made if special needs dictate.

Utilizing the two-zone system, the primary area of the cushion is simply inflated to a comfortable pressure using the bulb pump on the controller. The secondary area is then inflated to a lower pressure, even down to near zero, for maximum relief directly under the bony prominences.

The cushion is made of soft, durable neoprene (latex free) and each cell is reinforced with an internal air bladder for added strength. The air cells are shaped to fit the contour of the body. The two cells located immediately under the ischial area are attached with Velcro, which allows them to be repositioned for maximum effect. The cushion comes with a machine washable & dryable, non-slip, fabric cover.

**The Controller**

The controller is what makes the Defender II a system rather than just another air cushion. The 9-volt, battery-operated controller includes a zone selector switch, bulb pump, pressure release button, pressure gauge, and low pressure audio and visual alert.



Adjusting the air pressure can be done at any time utilizing the bulb pump and pressure release button on the controller. Simply select which of the two zones you want to adjust and either squeeze the bulb for more pressure or press the button to release air and reduce pressure. Conditions such as changing temperatures or altitude that would have other air cushions ballooning or bottoming out are not a problem for the Defender II. A series of LED's illuminate to correspond with the air pressure in the primary area of the cushion. In this way, they act as a pressure gauge so you will know exactly how much air pressure is in the primary zone of the cushion, and adjustments can be made in seconds.