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# X-SERIES

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VICAIR<sup>®</sup> PRODUCT GUIDEBOOK



VICAIR<sup>®</sup>  
LIBERTY X

# VICAIR® X-SERIES

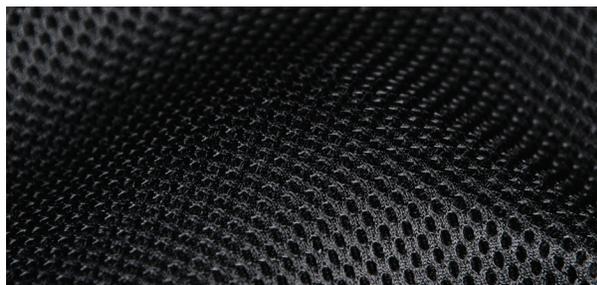
*How can we solve the short comings and pitfalls that traditional "Air Cushions" present?*

Through years of clinical feedback, patient research, and in-the-field requests from our vast customer base in both Long Term Care and Rehab facilities, we are proud to introduce the Vicair X-Series. The X-Series presents a full line of air cushions complete with unique design features and a broad line of varying solutions to meet even the toughest clinical needs seen in the most complex users.

## NEW FEATURES

### MESH LINER

X-series liners are made out of a breathable mesh material that promotes air flow and breathability. The mesh liner and cells can be washed as an assembled unit in any commercial washing machine. Hot or cold settings may be used.



### COCCYGEAL INSERT

The X Series line has a built in pelvic stabilizer that can quickly offload the high risk, Coccygeal, and I.T. region. The insert is made from a high density foam and is comprised of two parts. The main section illustrated below supports under the thighs, and the Gluteal region. The center section resides under the weight bearing bony prominences. By removing the center section, (as seen below) the patient receives instant relief by offloading the high risk areas and loading the Trochanters and Femurs. When utilizing this feature you can expect instant reductions in peak and average pressures.



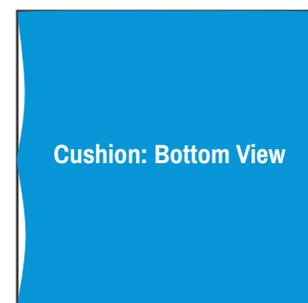
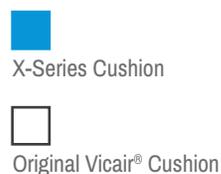
### CONTOURED TOP SURFACE

The Versa X and Vector X come with varying heights between compartments that offer a pre-contoured shape, bringing superior pressure reduction results. These new geometric heights and shapes of the compartments maximize the users surface area thus greatly reducing peak and average pressure readings.



### HOURGLASS BOTTOM PROFILE

As pressure is applied to the Comfort Cells from the user sitting on the cushion, the force causes the cells to shift and settle into every nook and crevasse of the cushion liner. In the past, this action would cause the sidewalls to "balloon" out inversely, causing the cushion to increase in width. The new hourglass design takes into consideration the "ballooning" and acts as a restricting feature to control the Comfort Cells maintaining the exact size request put forth by the prescribing agent.



## WHY VICAIR®?

### READY FOR USE

Comfort Cells are constructed of a soft material with thin outer walls allowing them to easily shear, conform, and settle around the user to take on their exacting shape.

### LIGHTWEIGHT

Vicair® Technology is ultra lightweight with cushions weighing 1.8 to 3.7 pounds enabling the user to keep the overall weight of their mobility system to a minimum.

### ADJUSTABLE

Vicair® Technology provides a dynamic seating surface that can be infinitely adjusted to accommodate or correct orthopedic deformities such as posterior pelvic tilt and pelvic obliquity. If an individual's positioning needs change over time, it can be addressed through the addition or subtraction of Comfort Cells from the chambers. If an individual has a flexible orthopedic deformity but cannot tolerate full correction at one time, slow and subtle adjustments are also possible thanks to the unique design of the Comfort Cells and cushion compartments.

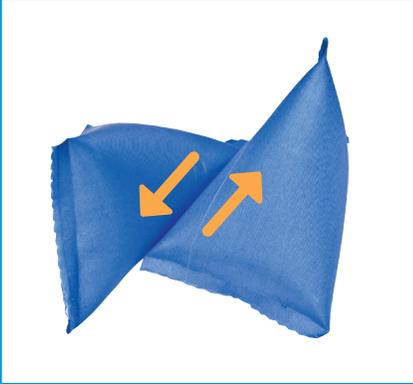
### STABLE

The unique "Auto-Contouring" characteristics of Vicair's Comfort Cells allow the user to settle into the cushion while drastically increasing positioning stability. This sure fit and positioning stability gives users more confidence and greater independence when completing every day activities. It also improves propulsion efficiencies and increases patient stability when performing transfers.

### LOW MAINTENANCE

Vicair® Technology requires little to no maintenance once it is properly adjusted. This series of cushions not only provides the superior pressure re-distribution properties of air, but it completes it without the need for frequent re-inflation or the typical leaks seen in other cushion designs. Air is encapsulated in the individual Comfort Cells which vary in Cell count from chamber to chamber re-distributing pressure away from the weight bearing bony prominences of the Sacrum, Coccyx and Ischial Tuberosities. Adjusts to the cushion geometry are possible while an individual is sitting on the cushion, resulting in fewer transfers during initial cushion setup.

# COMFORT CELL DESIGN



Comfort Cells when slightly compressed slide against each other and settle into position under the weight of an individual. This action creates Contour, Pressure Redistribution, and True Comfort.



Comfort Cells are constructed of a soft material with thin outer walls allowing them to easily shear, conform, and settle around the user taking on their exacting shape.

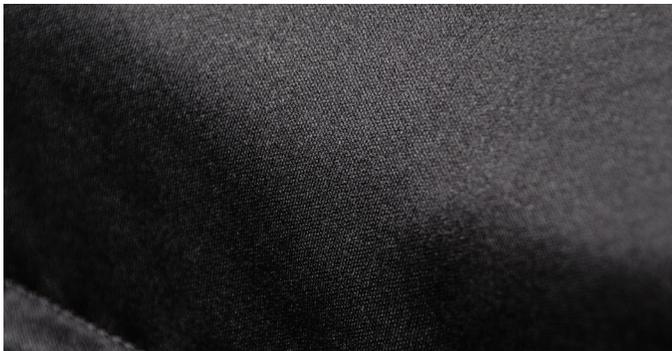


Comfort Cells put under pressure provide insight as to how the cells function while a patient is seated on the product. Every void is filled while the Comfort Cells align to take on whatever shape is applied to them.

## COVER OPTIONS

### STRETCH-AIR FABRIC

Designed for patient comfort and heat dissipation, this two-ply material combines a soft and high-stretch Polyester top layer with a water proof Polyurethane barrier underneath adding incontinence protection. Contains no rubber.



### COMFORT-TEK FABRIC

Designed for infection control and as an incontinence barrier, this Polyurethane material has a smooth and extremely soft top layer with a high-stretch Polyester backing. It is an easily cleaned surface using most common disinfectants. Contains no rubber.



### NEW FOR 2014

### SHEAR REDUCTION PANEL

**GLIDE WEAR**  
by Tamarack

This new cover technology is for healing and reducing the risk of Decubitus Ulcers by the use of a **Shear Reduction Zone**. This new zone is made from an ultra-slick and extremely breathable material. It is shaped and located to work only in the very specific and high risk region (for most users) located under their bony prominences. This extremely low friction zone drastically eliminates the daily stresses seen on soft tissue, reducing the probability of break down from the effects of shear typically found under those weight bearing bony prominences. The ultimate key to this technology's success is not only having an extremely **Low Friction Zone**, but also having **High Friction Zones** to help keep the user positioned throughout the day. Having the **High Friction Zone** through the Gluteal section of the cushion, as well as across the under sides of the thighs eliminates the risk of a patient's pelvic position "slipping" into that of a sacral seated position. This new cover has high-stretch characteristics, breathability, and provides great heat dissipation. The Glidewear™ technology option may be embedded into both core cover materials found at the Comfort Company, Stretch-Air and Comfort-Tek.

GLIDEWEAR™  
SHEAR REDUCTION ZONE



Front of  
Cushion

STABILITY ZONE

# VECTOR X

MEDICARE CODE E2624/E2625

# VERSA X

MEDICARE CODE E2624/E2625



Shown without cover

Designed with 10 adjustable chambers making the Vector X the most comprehensive positioning cushion in the series.

Air cells may be added or removed from each chamber as needed to customize the cushions geometry to best fit the needs of each user.

Liner is made out of a breathable mesh material and allows the full liner with air cells to be washed and dried. Hot or cold settings may be used.

Coccyx, I.T. and Sacrum bony prominences each have a dedicated chamber that can be partially or fully off loaded giving the maximum healing opportunity for any stage wound.

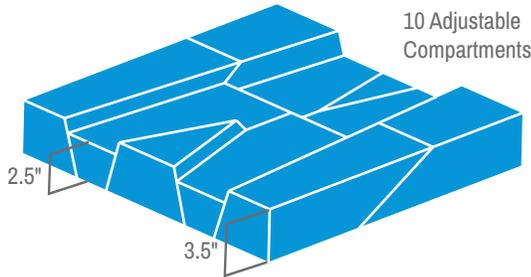
Split and elevated side chambers run from front to back to provide independently adjustable chambers for accommodating lateral pelvic asymmetries as well as adduction through the thighs.

Adjustable height Pommel chamber allows for the varied Abduction needs for each user.

The Coccygeal bottom insert serves as a pelvic stabilizer and can quickly be adjusted to offload the high risk, Coccygeal and I.T. region through better loading of the Greater Trochanters.

Available with Glidewear™ Technology

Weight capacity 550 lbs.



VECTOR X PART NUMBERS

		WIDTH				
		16"	18"	20"	22"	24"
DEPTH	16"	VTX-?-1616	VTX-?-1816	VTX-?-2016	VTX-?-2216	VTX-?-2416
	18"	VTX-?-1618	VTX-?-1818	VTX-?-2018	VTX-?-2218	VTX-?-2418
	20"	VTX-?-1620	VTX-?-1820	VTX-?-2020	VTX-?-2220	VTX-?-2420

? TO BE REPLACED WITH FABRIC CHOICE LISTED BELOW.

? = FABRIC CHOICE	
S = Stretch-Air	F = Comfort-Tek
SQ = Stretch-Air w/ Glidewear™	FQ = Comfort-Tek w/ Glidewear™



Shown without cover

Designed with 5 adjustable chambers in the rear and a contoured molded base foam in the front. The Versa X is the first hybrid air and foam cushion to offer extreme comfort and maximum healing opportunities for any stage wound.

Air cells may be added or removed from each chamber as needed to customize the cushions geometry to best fit the needs of each user.

Liner is made out of a breathable mesh material and allows the full liner with air cells to be washed and dried. Hot or cold settings may be used.

Coccyx, I.T. and Sacrum bony prominences each have a dedicated chamber that can be partially or fully off loaded giving the maximum healing opportunity for any stage wound.

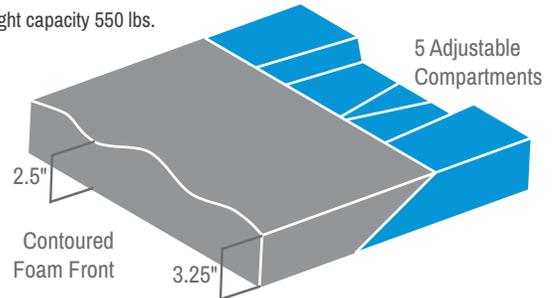
Independently adjustable lateral chambers in the rear are for accommodating lateral pelvic asymmetries.

Molded foam cushion is extremely resilient and built with mild positioning features. This design offers the user exceptional stability and comfort while transferring.

The Coccygeal bottom insert serves as a pelvic stabilizer and can quickly be adjusted to offload the high risk, Coccygeal and I.T. region through better loading of the Greater Trochanters.

Available with Glidewear™ Technology

Weight capacity 550 lbs.



VERSA X PART NUMBERS

		WIDTH				
		16"	18"	20"	22"	24"
DEPTH	16"	VRX-?-1616	VRX-?-1816	VRX-?-2016	VRX-?-2216	VRX-?-2416
	18"	VRX-?-1618	VRX-?-1818	VRX-?-2018	VRX-?-2218	VRX-?-2418
	20"	VRX-?-1620	VRX-?-1820	VRX-?-2020	VRX-?-2220	VRX-?-2420

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# ADJUSTER X MEDICARE CODE E2622/E2623



Shown without cover

Designed with 8 adjustable chambers making the Adjuster X the most comprehensive Adjustable Skin Protection cushion on the market.

Air cells may be added or removed from each chamber as needed to customize the cushions geometry to best fit the needs of each user.

Liner is made out of a breathable mesh material and allows the full liner with air cells to be washed and dried. Hot or cold settings may be used.

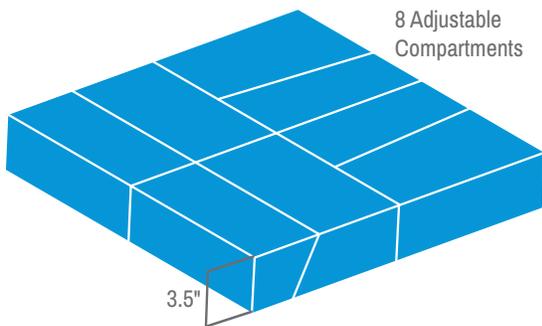
I.T. bony prominences each have a dedicated chamber that can be partially or fully off loaded giving the maximum healing opportunity for any stage wound.

Independently adjustable lateral chambers in the rear are for accommodating lateral pelvic asymmetries or loading the Greater Trochanters.

Front four chambers can be adjusted to handle leg length discrepancies, seat to floor height variances increasing heel contact for foot propellers, and altering the anti-thrust characteristics for better pelvic positioning.

Available with Glidewear™ Technology

Weight capacity 550 lbs.



ADJUSTER X PART NUMBERS

		WIDTH				
		16"	18"	20"	22"	24"
DEPTH	16"	AJX-?-1616	AJX-?-1816	AJX-?-2016	AJX-?-2216	AJX-?-2416
	18"	AJX-?-1618	AJX-?-1818	AJX-?-2018	AJX-?-2218	AJX-?-2418
	20"	AJX-?-1620	AJX-?-1820	AJX-?-2020	AJX-?-2220	AJX-?-2420

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S = Stretch-Air	F = Comfort-Tek
SQ = Stretch-Air w/ Glidewear™	FQ = Comfort-Tek w/ Glidewear™

# LIBERTY X MEDICARE CODE E2622/E2623



Shown without covers

The main cushion component was designed with a completely sealed PVC liner containing a front and rear chamber. The cushion liner holds Comfort Cells coated in a silicone lubricant giving them a slow moving yet fluid like motion when conforming to the patient.

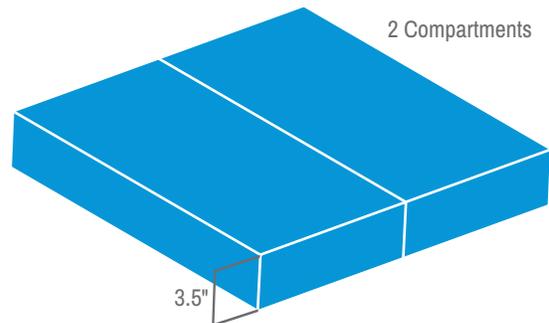
The liner also has an air valve that when opened allows all the excess air to escape after a patient sits on it. Once the air has escaped and the cushion has taken on the fitted shape of the patient, the air valve can be closed and the cushion will then retain its shape. This vacuum forming technique with the silicone coated Comfort Cells captures the patient's shape every time.

A foam base is installed separately under the main cushion component to give addition femoral support and Trochanter loading to the main Vicair cushion.

Base foam has a separate cover made of Comfort Tek material using a water proof zipper giving it superior incontinence protection and infection control. Foam to be removed while laundering cover.

Available with Glidewear™ Technology

Weight capacity 550 lbs.



LIBERTY X PART NUMBERS

		WIDTH		
		16"	18"	20"
DEPTH	16"	LBX-?-1616	LBX-?-1816	
	18"		AJX-?-1818	AJX-?-2018

? TO BE REPLACED WITH FABRIC CHOICE LISTED BELOW.

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## VICAIR® SPECIFICATIONS VS. OTHER LEADING INDUSTRY BRANDS

	VICAIR®	ROHO®	VARILITE®	JAY®
<b>MODELS</b>	Adjuster X, Vector X, Versa X, & Liberty X	Quadro Select® High Profile and Quadro Select® Low Profile	Varilite Evolution	J3 and Deep Contour
<b>SIZE OFFERING</b>	16"-24" (Custom Sizes Available)	12"-28"	12"-24"	12"-24"
<b>HEIGHT</b>	3.5"	4.25" High Profile, 2.5" Low Profile	3.8"	4.1"
<b>WEIGHT</b>	1.8 lbs - 3.7 lbs	4.4 lbs High Profile, 3.2 lbs Low Profile (9"x 9" Cushion)	2.5 lbs	4.9 lbs with fluid insert, 3.1 lbs with air insert
<b>INITIAL ADJUSTMENTS</b>	Vicair cushions are ready for use. For additional adjustments unzip cover and add/remove air cells as needed or remove the center section of the Coccygeal Insert to offload the high risk areas and load the Trochanters, a lower risk region.	Use separate air pump and pump cushion to desired level.	Cushion must be inflated to desired level upon receiving.	Insert either gel pack or Roho air bladder. Air bladder must be pumped to desired level.
<b>MAINTENANCE</b>	No maintenance after initial adjustment. Recommended to check once every three months.	Air pressure must be monitored daily.	Cushion must be checked daily and once a week cushion must be fully inflated.	Both air bladder and gel substance must be checked on a regular basis.
<b>STABILITY</b>	Very stable cushion, user immerses into air cells which provide stability and positioning.	One profile top surface geometry.	Minimal positioning qualities.	Foam base provides stability.
<b>COVER</b>	Stretch-Air: Designed for patient comfort and heat dissipation. Comfort-Tek: Designed for infection control and as an incontinence barrier. Glidewear™ Panel Option: A shear reduction feature	Standard Lycra top cover.	Two cover options: incontinent or mesh.	Three cover options: Stretch, Incontinent-Resistant, and Microclimatic 3DX™ Spacer Fabric.

\*Information gathered from publicly available resources.

## VICAIR® TESTIMONIALS

"Optimal pressure distribution in combination with stability is what makes the Vicair® cushion a functional seat cushion"

**Bengt Engstrom, P.T.**

"All Star prefers the Vicair cushion over any other skin protective cushion because of its minimal maintenance, pressure mapping, and increased patient compliance. Its stability and adjustability out match its competition in several ways. As a supplier, we needed an air cushion without the hassle of inflatable bladders. We needed an air cushion that was user-friendly for the high percentage of geriatric patient's we serviced. Vicair technology was the answer we were looking for, and gave our company a competitive marketing advantage for so many of our referrals sources. We feel the key to Vicair is its functionality and maintenance-free pre-filled air packets."

**Josh Story, All Star Home Medical Equipment**

"I recently used the Vicair cushion with a patient who recently suffered a very high, cervical level, spinal cord injury. The pressure mappings turned out well and the patient has remained well positioned, functional, free from skin integrity issues, and comfortable."

**Katherine M Collins, PT, DPT, ATP**

"Hi my name is JD, and I am a T 10 Para and have been for 24 years. I have had many cushion over the years, and for the past 3 years I have been using the adjuster cushion because I have a three inch pelvic obliquity and there was nothing out there on the market besides going to a fixed cushion to help me out. I have enjoyed the cushion so far."

**JD Kemp, Permobil Technical Support Rep**

"The adjustability with the Vicair® cushion is a tremendous feature. Also, it's very durable, lightweight, and easy to keep clean. I've tried various Roho designs prior to the Vicair, but found that the Roho wasn't healing my wound. Also, the Roho has a tendency to make me sweat because of its non-porous design. Some other issues I had with it were it loses desired pressure, easily punctures, and doesn't provide the stability that I needed."

**Victor Konovalov,  
5x National Champion IFBB Pro Bodybuilder**

"I'm totally impressed with the Adjuster cushion. I never had a client smile so much and say "No Pain" the second he sat on it. Thanks again for Everything!"

**John Burke, ATP, CRTS**



"I'm a long time T-12 SCI paraplegic. I started sitting on a Vicair cushion six years ago after using another air cushion for 20 plus years. I pressure mapped really well on the Vicair before I decided to make the switch. I love the fact that it is extremely lightweight with absolutely no maintenance. It provides me with the pressure relief that I want and has the adjustability to change as my needs do. But probably the most important thing for me about my Vicair cushion is, I haven't had to put my mouth on a valve stem in six years. I've been in the DME Industry for 20 years. And after sitting on my Vicair cushion for 2 years I liked it so much, I went to work for the company"

**Will Clark, Territory Manager**

"Thank You for introducing me to the Vicair® cushions. I recently had a patient with a stage 2 decubitus ulcer. We previously had him on a competitors air cushion and were not able to keep his pelvis positioned correctly and we were also having problems keeping the cushion inflated. Since putting him on the Adjuster with Vicair® cushion with proper adjustments to the anti thrust, we were able to keep his pelvis back and he is not sliding forward any longer. Although I have not been asked to re-visit him since this time I do continually check with the staff and there have been no reports of skin redness or any problems keeping him in the chair."

**Trish Couch, ATS, CRTS Holland RST**