

# AccuMax Quantum™ VPC

Dynamic non-powered pressure redistribution system



## Clinically proven in pressure ulcer prevention

With ever increasing demands on caregivers' time, restricted healthcare budgets and higher patient acuity levels, unrelieved pressure continues to pose a significant threat to patient safety for both hospitals and long term care facilities.

The AccuMax Quantum VPC is a clinically proven, non-powered therapeutic support surface designed for the prevention and management of all categories of pressure ulcer and is proven to reduce the prevalence and associated costs of pressure ulcers when combined with an individualized program of care.<sup>1,2,3,4</sup>

**Optimum clinical performance**

**+**

**Minimum caregiver interaction**

**+**

**Continuous patient protection**

**=**

**Maximum efficiency**

Enhancing outcomes for patients and their caregivers:

**Hill-Rom**

## AccuMax Quantum VPC

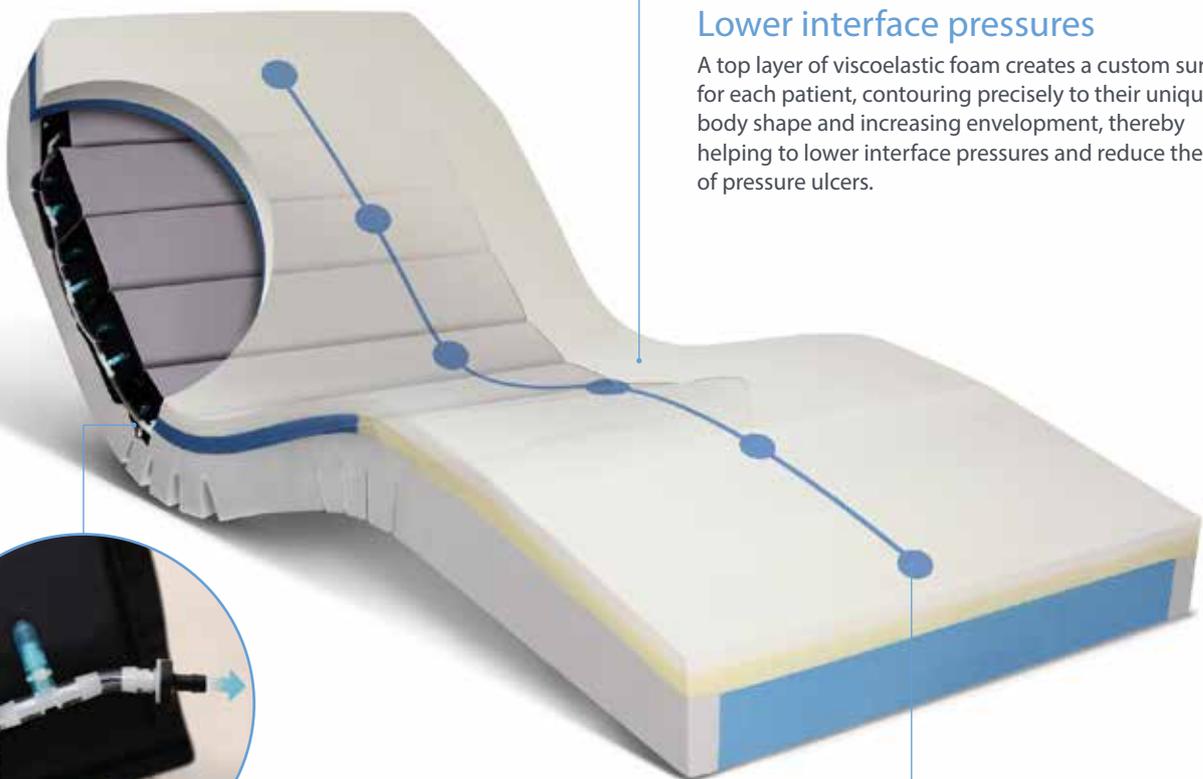
# Maximum support, minimum caregiver interaction

By combining the excellent pressure redistributing properties of air and viscoelastic foam with its unique Controlled Release™ technology, the AccuMax Quantum VPC maintains the optimum level of non-powered therapeutic support and comfort for a wide range of patient weights, body shapes and positions.



### Lower interface pressures

A top layer of viscoelastic foam creates a custom surface for each patient, contouring precisely to their unique body shape and increasing envelopment, thereby helping to lower interface pressures and reduce the risk of pressure ulcers.



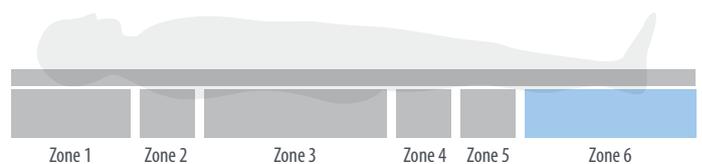
### No need to adjust during use

Controlled Release technology enables the mattress to automatically respond to patient movements or repositioning by increasing or decreasing air pressures within the surface, allowing caregivers to focus on other patient priorities.

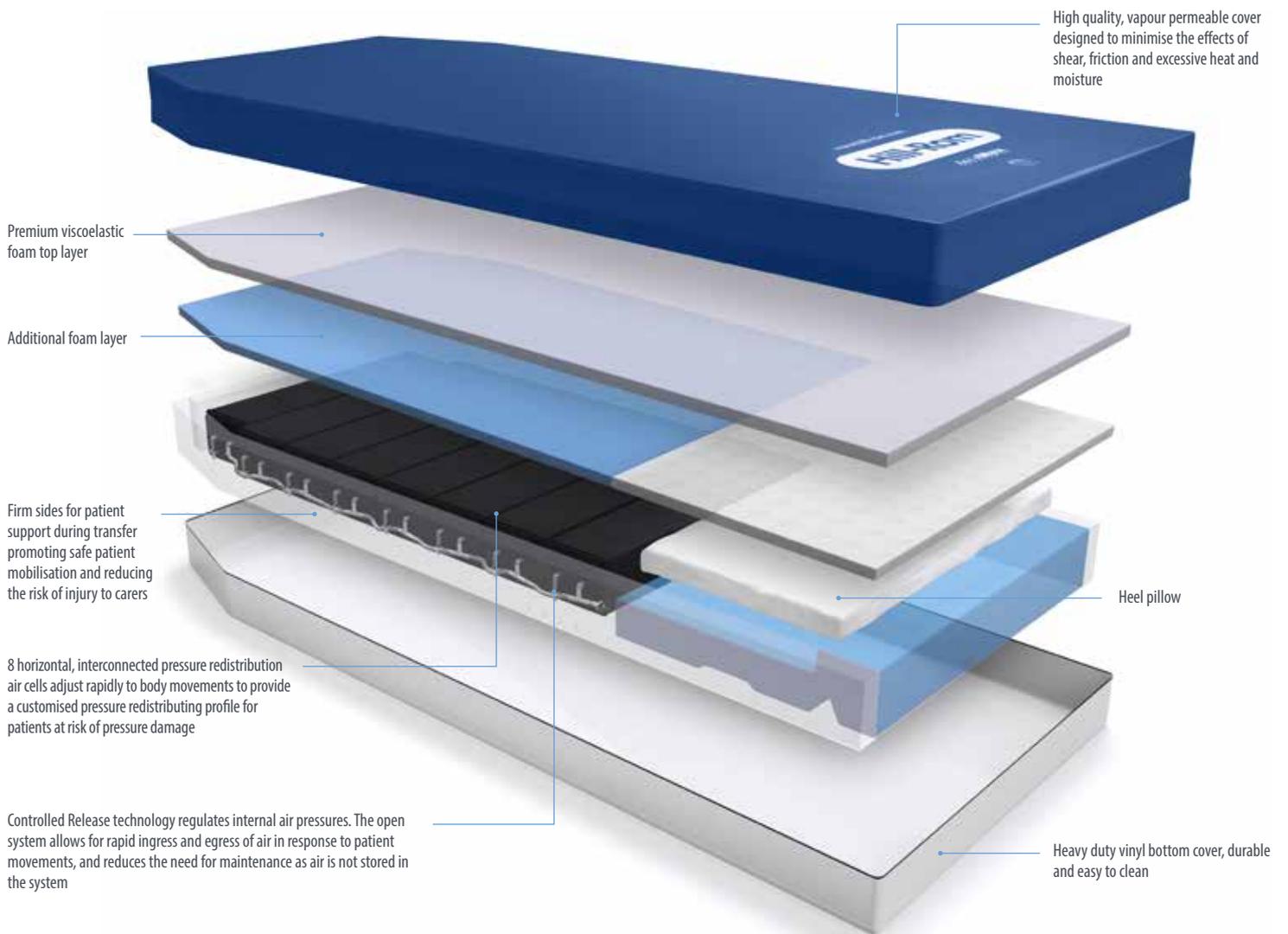
#### Uninterrupted therapy

The result is a support surface that maintains low interface pressures without the need for power or manual adjustments. The intake and output valves on each air cell automatically adjust to provide uninterrupted therapy for the majority of patient types.

### Targeted pressure redistribution



Six targeted pressure redistribution zones provide additional protection for the most vulnerable areas, including the head, sacrum and heel.



## Continuous patient protection

The AccuMax Quantum VPC redistributes pressure using the same principles as the I-mersion® Therapy range of powered surfaces.

The internal pressures in the mattress are maintained to ensure the patient's ability to mobilise is not inhibited (immersion) whilst at the same time the redistribution of pressure to a larger surface area (envelopment) achieves the lowest possible interface pressures, and helps to prevent compression and distortion of vulnerable tissues.

This effective approach to Pressure Ulcer management is in line with the EPUAP/NPUAP international guidelines which state that a good

support surface should have the ability to conform, fit and mould around the irregularities of the body<sup>5</sup>.

The Controlled Release valve system regulates internal air pressures enabling the system to automatically adjust to patient movement and repositioning. This quickly achieves and maintains the optimum pressure profile for the patient, balancing therapeutic performance with comfort and support, ensuring the patient does not gradually 'sink' into the mattress. On patient ingress, the release of excess air is carefully controlled to ensure safety and support of the patient.

## Clinical performance

Studies have demonstrated the effectiveness of the AccuMax Quantum VPC.

- In one study at a 350 bed hospital, the system contributed to a 62% reduction in facility-acquired pressure ulcers over an eight month period.<sup>1</sup>
- In a 200 bed acute care facility, facility-acquired pressure ulcers decreased by 16% and rental costs decreased in the first year of use by \$15,000 per month, with estimated savings of \$900,000 over the life of product.<sup>3</sup>
- A reduction in facility-acquired pressure ulcer incidence of 60% over 3 years for patients with low Braden risk scores.

## Compatibility

For more information concerning compatibility with other bed systems, please contact your local Hill-Rom representative.



# AccuMax Quantum VPC

## Technical Specifications

Length	203 cm (8 cells) / 213 cm (9 cells)
Width	89 cm
Height	18 cm
Weight	15 kg
Safe Working Load	227 kg

### Conformity to standards:

CAL TB-129; BFD IX-11; CAN/CGSB-4.2 No. 27.7-M89; 16CFR1633;  
16CFR16332; EN 597-1; EN597-2; BS 6807; BS 7177+A1

## References

1. Strliko B et al. Effects of a Non-Powered Dynamic Surface on Reducing Facility-Acquired Pressure Ulcers. Poster presentation, WOCN2005
2. Bandelier A. Clinical Evaluation of Bedridden Patients in an Extended care Facility on a non-powered Pressure Redistribution Surface. Poster presentation, SAWC 2008
3. Walden K.E. Implementation of A Pressure Redistribution Mattress WOCN Society 40th Annual Conference, 2008
4. Philbin S, Lake L. Bringing Down The House: The Inside Story. Poster Presentation, WOCN 41st Annual Conference, 2009
5. EPUAP / NPUAP Guidelines 2009

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The AccuMax Quantum VPC surface is a therapeutic pressure redistribution system that aids in the prevention/treatment of Stage I, II, III and IV pressure ulcers in patients at moderate risk for developing pressure ulcers and with a minimum weight of 40 kg and a minimum height of 1.46 m, when combined with recommended turning protocols.

Class I

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