



Quality Management System Certificate No. 1058  
AS/NZS ISO 9001:2008

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## FAQ – AccuMax Pressure Relief Mattresses

### How does the AccuMax achieve pressure relief without the use of motors or pumps blowing air?

There is always air moving in all AccuMax mattresses, and the AccuMax is always in a pressure relief mode. A series of intake and output valves adjust the mattress to the movements and weight distribution of the patient's body. Controlled Release Technology™ (CRT) works even when the patient breathes or coughs.

### What is Controlled Release Technology? Getting tired of the word Technology?

We are too – but this is new technology! Controlled Released Technology™ is a new type of restricted air release port. It helps control the amount of air released from the mattress system. It helps to automatically adjust the independent air sections during patient repositioning to provide consistent pressure relief therapy. The low friction nylon cylinders help speed up cylinder reaction/recovery time. These anti-microbial air sectors never need to be checked for proper inflation levels. All of this is accomplished without a pump or the need for electrical power. However...

### What do you mean by “Convertible”? How does the Accumax convert?

The AccuMax Quantum Convertible is designed with our unique Airport™ connection to allow a control unit (pump) to be easily connected to the non-powered mattress, therefore “converting” the pressure relief Quantum to a powered mattress that provides alternating pressure. The Quantum Convertible is still **always** in a pressure relief mode even if you have a power failure, even if the pump is disconnected. That's what we mean by “Convertible”.

### Is there a simple test to assure that the Quantum is working at peak performance?

Yes! Unlike micro-processor based systems that operate at varying degrees of efficiency, the Accumax Quantum is always working even if a cylinder has been unintentionally damaged. Plus, the cylinder can be independently replaced! In fact, your maintenance department can easily replace any of the component parts of the entire system. We guarantee it.



### **Does the pump take time to adjust or readjust; it feels like it is hardly moving at all?**

All air mattresses take time to fill up. The Controlled Release Technology™ system is designed so the relief valves will only allow air to move through the AccuMax Quantum, slowly. This slow movement of air allows for an accurate internal pressure setting that is necessary to attain maximum weight displacement. It only takes approximately 5 – 7 minutes for the Quantum to acclimate to the patient entering the bed to achieve a custom pressure relieving profile.

### **Does it still work effectively when the bed is gatched?**

Absolutely! As long as one end of the air cell can freely “communicate” with the other end, the Quantum will perform at maximum efficiency.

### **Can CPR be performed on an AccuMax?**

Yes – use the same CPR protocol as with standard mattresses. Generally, a board (usually the bed headboard) must be inserted under the patient to achieve adequate resistance for CPR.

### **What are the patient weight limits, both low and high?**

Weight distribution is a key to achieving pressure relief. Therefore, the initial pressure necessary to maximize displacement of body weight and shape is the same no matter what the size of the patient, so theoretically there exists no minimum or maximum weight limitation on the Quantum. We say theoretically, because if a patient is either so wide or so tall that their body exceeds the intended therapeutic surface area of the Quantum, then its clinical effectiveness is less than optimal. The same restrictions would exist on any therapeutic support surface, powered or non-powered.

### **Can I use a draw sheet under the patient to help us with turning?**

Yes, again, the same protocol used on our MaxiFloats applies on the Quantum. However, the fewer items between the patient’s body and the mattress will help to achieve even better pressure relief.

### **Can the Quantum be used on patients with unstable spinal cords? Or is it inadvisable for any patient with spinal instabilities?**

Any system that does not provide adequate stabilization for a spinal cord patient is inadvisable. This list includes alternating pressure beds, low air loss beds and waterbeds. In any case, it is best to consult with the physician in charge and let them make that decision.



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# *AccuMax Mattress*

## Instructions for Use

1. The AccuMax Mattress is a permanent mattress, and should always be placed on the bed with the dark green cover facing up, and the foot symbol at the foot end of the bed.
2. No mattress pad or foam overlay should be used with the AccuMax.
3. Please do not stick needles into the AccuMax!
4. Code procedures and x-rays can be done on/with the AccuMax.
5. The AccuMax weighs less than 24 kgs and has two handles on each side. The mattress is not difficult to lift or reposition if necessary.
6. The closer a patient/resident is to the surface of the AccuMax the better its pressure reduction benefits will be. Please do not layer the bed with excess linen.
7. The AccuMax top cover is designed to be loose and billowy to allow the patient to descend a bit into the mattress, and get it's full pressure reduction benefits. It is normal for sheets to fit loosely over the AccuMax.
8. **PLEASE NOTE:** The AccuMax should be considered a tool in an overall skin care management program. With good nursing techniques, the AccuMax has been proven to help prevent pressure sores and aid in the healing of stage one and two pressure sores.

**Thank you for using the AccuMax Self Adjusting Technology Mattress.  
For further information please call 07-3265 9999**