
RELIEF MAX

PRESSURE RELIEF SYSTEM

Owner's Manual
And
Product Specification Guide



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Congratulations, you have just obtained one of the most advanced products on the market today for the prevention and management of skin breakdown. We at H&R Healthcare are proud to offer the Relief Max Pressure Relief system as an integral part of our line of therapeutic support surfaces and we are privileged to call you one of our valued customers.

How the System Works

The Relief Max Pressure Relief System begins to create a custom pressure relieving profile immediately after a patient is placed upon the system. Upon ingress, a natural chain of events begins in each of its alternately connected air sectors. First, the pressure level changes in each affected sector. Second, the air inside each sector is then displaced. When the pressure inside a sector reaches a higher than clinically effective internal level, an output valve releases air to achieve a therapeutic, low-pressure balance. The result is a support surface that achieves incredibly low interface pressures without the need for pumps, blowers or a series of microprocessors.

The Relief Max also has the ability to reconfigure and reinflate itself any time the patient moves or is repositioned. Whenever the pressure gradient changes, the intake and output valves automatically adjust the sectors to again achieve a low-pressure balance providing vital therapy for your high-risk patient. The unique and patent pending controlled release valve system of the Relief Max allows for these pressure changes to occur very slowly to minimize patient disorientation.

Relief Max Product Highlights

- Patent pending Controlled Release Technology
- A fully dynamic, pressure relieving air system that requires no electricity to deliver pressure relief
- Absolutely no loss of pressure relieving capabilities in the event of a power loss
- Employs atmospheric pressure as its power source
- Creates a custom pressure relieving profile for any patient, in any position, on any bed frame
- Dramatically reduces the need for high-end rental bed systems
- Extremely easy to set up and operate
- Upper weight limit of 500 lbs.
- Requires almost zero maintenance except normal cleaning procedures between patients
- Five (5) year limited warranty

Indications for Use

The Relief Max Pressure Relief System is an advanced pressure management system for the prevention, care and management of pressure ulcers. It is designed for patients that are at moderate to high risk for skin breakdown. Because of its pressure relieving capabilities, it can also be used with patients that may have existing skin breakdown, up to and including those with Stage IV pressure ulcers.

Contraindications for Use

For patients that require low air loss or other adjuvant therapies (e.g. pulsation, rotation, etc.), other products should be used. The same recommendation applies for those patients that are extremely diaphoretic.

In-Service Information

Many factors can contribute to skin breakdown in the institutional and home care environment. These can include, but are not limited to nutritional status, incontinence level, alertness, mobility, etc. With a complete skincare protocol, the Relief Max can be a significant tool in the early intervention, prevention and management of skin breakdown. The Relief Max must be used properly and here are some key issues when using this mattress.

- Please be sure that the Relief Max is always used with the stenciled side up and ;the foot section is placed at the foot end of the bed.
- The Relief Max is a mattress replacement system and eliminates the need for overlays (foam, gel, air-powered and non-powered).
- A chest X-ray can be performed while laying on the Relief Max Pressure Relief System.
- Normal code procedures should be followed when the patient is on the Relief Max.

Linen Lock Sheet Hold Down System

To properly utilize the Linen Lock System, gather the corner area of the sheet and take over the outside and past the top of the Linen Lock strap. Then, tuck the sheet back under the strap to “lock” in place.

Product Specifications (Mattress)

The Relief Max Pressure Relief Systems are complete mattress replacement systems and are placed directly on any bed frame including those with spring or pan bases. The following table lists the integral parts of the system:

Hypolex Ultra Top Cover

- Premium low friction and low shear material
- Very low moisture vapor transmission rates (.72 gm/m²/hr.)
- Waterproof, stain resistant and anti-microbial

Topper

- As an added layer of protection that provides unmatched comfort and additional weight dispersement

Patent Pending Air Sectors

- Anatomically inspired arrangement of horizontally oriented air sectors that more evenly distribute the patient’s weight providing low interface pressure readings

- Provide for a more responsive, more accurate system for patients of all weights and sizes up to 500 lbs.
- Controlled Release Technology – employs a series of input/output valves to continuously and automatically adjust air pressures within the system
- 29” wide therapeutic support surface
- 3” wide foam borders surround the air cells for added patient protection

Bottom Cover

- Durable, tri-laminate and flame retardant vinyl
- Anti-microbial flap behind the zipper helps to prevent ingress of fluids
- Waterproof
- Antibacterial

Cleaning Instructions (Mattress)

Because the Relief Max is a self-contained unit, it requires no cleaning of the inside air components between patient uses unless the top or bottom covers are compromised. The top and bottom covers can be cleaned with standard cleaning procedures, using properly diluted solutions.

CARE INSTRUCTIONS

- Mattresses should be first cleaned with soap and water to minimize severe staining.
- More persistent contamination may be treated by wiping with methylated or white spirit followed by hot water and detergent.
- The top and bottom cover of the Relief Max mattress may be cleaned with standard hospital solutions, which must be properly diluted according to manufacturer’s instructions.
- Abrasive cleaning agents should not be used.
- The following properly diluted agents can be used on the Relief Max Pressure Relief System without fabric or coating breakdown or loss of waterproof properties:

8% Chlorine Boil	10% Chlorine Wipedown	Quaternary Wipedown
Phenolic Wipedown	Soap and Water	

Other cleaning guidelines

- Relief Max mattresses must be cleaned after each patient use.
- Staff should wear appropriate protective apparel when cleaning mattresses.
- Laundering of any part of the Relief Max is not recommended.
- After wipedown/disinfection procedures have been completed, allow top cover surface to completely air dry before dressing the bed.
- Excessive amounts of cleaning solutions should not be used and only serve to unduly increase drying times.

- The zippered cover does not need to be removed for cleaning, nor should it be opened during use. The zipper is provided to allow repair or replacement of component parts, if required.

Storage

- Store in a cool, dry area.
- Avoid excessive pressure and contact with non-colorfast materials.

Maintenance Procedures

The Relief Max is a fully contained system that requires almost no maintenance between patients. However, should an obvious need arise (e.g. a markedly deflated area of the mattress, or conversely, an area that does not adequately deflate, etc.); the following maintenance check should be performed:

NOTE: These system checks should only be performed by an authorized H&R Healthcare representative or a properly in-serviced facility employee.

Maintenance Steps:

1. Starting from the head end of the mattress, fully unzip and remove the Relief Max Top Cover.
2. Next, carefully remove the coverlet to expose the air sectors of the Relief Max.
3. Unzip either the torso or lower leg section, depending on the section that warrants the attention.
4. With the output/input valves exposed, place weight on the air cell to determine if air is escaping only from the output valve. Removal of the air tube may be necessary.
5. If an air cell leaks anywhere other than the output valve, the air cell may need to be replaced.
6. If air does not escape from the output valve it may be plugged. Inspect its condition for any blockage and remove the obstruction.
7. If you have any other questions, please call an authorized service technician at H&R Healthcare for further instructions.

Warranty Information

This warranty on the Relief Max Pressure Relief System applies only to defects in structure, workmanship, and materials and only to damages arising from normal hospital or facility usage for a period of five (5) years, (3) years non-prorated, from the date of purchase.

Damages arising from abnormal use such as those caused by needle punctures, burns, chemicals, negligent use or improper care or cleaning, are excluded from coverage. The manufacturer will pay shipping and handling charges incurred in connections with this warranty during the first year. Thereafter, those charges are the facility's sole responsibility.

This warranty is the only warranty applicable and there are no other warranties, expressed, or implied, and no one other than the manufacturer has authority to modify this warranty.

Manufacturer's liability under this warranty shall not exceed the purchase price of the mattress. Manufacturer disclaims any liability for consequential damages arising from a breach of this warranty.

The purchaser is hereby advised that some fabric will stretch, and all foam (regardless of chemical composition) and padding will lose some of their resiliency (memory) during the life of the mattress. This is normal and is not included in this or any other warranty applicable to this product. This warranty is void if manufacturer's tag is removed.

The warranty begins on the date of delivery to the facility, and covers damages incurred under normal wear and tear. If the mattress should require service during the warranty period, H&R Healthcare will provide a complimentary loaner mattress to the facility until the facility-owned mattress is serviced and returned. If applicable, after the warranty expires, a \$75.00 service fee will be charged for our service technician to visit the facility and assess the need for repair. The cost of the repair will be submitted to the facility before any service is performed. If the mattress must be repaired at our service center and a loaner is necessary, the facility will be billed for the loaner rental for a maximum of 30 days.

This paragraph is required by law:

THIS WARRANTY IS LIMITED TO THE PROVISIONS SET FORTH ABOVE. THIS WARRANTY GIVES THE PURCHASER SPECIFIC LEGAL RIGHTS. THE PURCHASER MAY HAVE ADDITIONAL LEGAL RIGHTS UNDER APPLICABLE FEDERAL AND STATE LAWS. WITH REGARD TO ANY SUCH ADDITIONAL LEGAL RIGHTS, THE PURCHASER IS ADVISED TO CONSULT AN ATTORNEY OR THE STATE OR FEDERAL AGENCY HAVING JURISDICTION OVER SUCH MATTERS.