



User-Service Manual

To avoid injury, read user's manual before operation



Important Precautions

Important Notice: The United Mattress is a non-powered floatation therapy support surface, and as such, the equipment must be operated in the manner for which it was intended. Facility staff/user is responsible for reading and understanding the product user manual and contacting The United Mattress if anything in the user manual is unclear. The United Mattress will not be held responsible for any injuries resulting from failure to comply with the instructions and precautions in this manual.

Warning: The United Mattress specialty support surfaces are designed as mattress replacement systems. The risk of entrapment may occur when the mattress is placed on a bed frame that could leave a gap. Entrapment can occur if there are even a few inches between the bed and/or side rails, head panel, or foot panel. The equipment is not to be used if such a gap is present.



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Introduction

The United Mattress

INTRODUCTION: The United Mattress is a non-powered air floatation therapy mattress designed to redistribute the body's weight by simulating the effects of a body immersed in a fluid-like medium. The United is designed to create the optimal healing environment and provide unmatched comfort for any patient by automatically adjusting a network of air cells to the appropriate, therapeutic level, regardless of the user's weight or position. It is intended for use as a non-powered, reactive support surface, suitable for the treatment and prevention of all stages for pressure ulcers, post-operative myocutaneous flaps or skin grafts, or for patients who have been assessed to be at risk for pressure injuries.

DESCRIPTION: The United Mattress system consists of memory foam, air cells, a non-shearing layer, and natural airflow. The United Mattress is able to create the optimal environment to help maintain healthy tissue and is appropriate for use in therapy of Stage 1-4 pressure injuries.

Pressure against the patient's body can be dispersed to a larger area, which can help prevent or lower pressure points on the patient's body.

The prevention and lowering of pressure points on the body can help prevent, alleviate, or heal bed sores, pressure ulcers, and other skin traumas such as burns or cuts. By placing the air cells above the memory foam, The United Mattress is able to displace more weight than a traditional air mattress or foam mattress while allowing the patient to stay cool. As the patient is positioned on the apparatus **10**. The foam layer **12**. Can similarly deform to further contour the patient's body, which can further disperse the forces acting on the body to a larger area and help further decrease or eliminate pressure points acting on the body.

Viscoelastic polyurethane foam, commonly referred to as memory foam, **12**. can continually mold itself to the patient's body to effectively contour the patient and evenly distribute the patient's weight.

In addition to being clinically valuable from a skin and wound care perspective, The United Mattress helps create a calm, soothing environment for patients. The United does not require an electric blower or pump, eliminating unnecessary rattling and noise associated with many pump and blower driven air mattress systems. This not only makes for a more inviting environment for patients and caregivers, but also that our mattress is completely portable since a continuous source of electricity is not required. The United Mattress is able to keep the patient cool without recirculating air. The United Mattress does not recirculate warm air by a pump or blower. Moisture and fluid will not penetrate through the mattress; therefore, the moisture will not penetrate the non-permissible mattress cover. Air passing through the mattress apparatus **10** can help keep the apparatus **10**

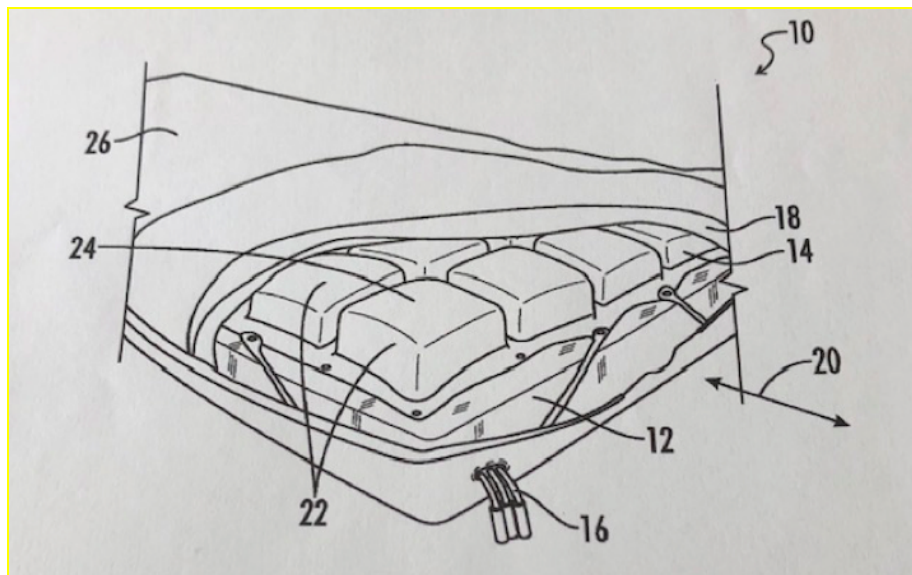


components free from moisture which can help prevent or heal sores as added moisture can worsen sores. Additionally, air passing through the apparatus **10** can help disperse heat which can be built up in the mattress **10** from the patient's body heat, which can help keep the apparatus **10** and the patient cool. The air can pass over the foam layer **12** the air cushion **14**, and the non-shearing layer **18**.

In some embodiments, the top portion **28** of the removable cover **26** can be configured to be water or fluid proof. The top portion **18** can be treated with a polyurethane film such that sweat, bodily fluids, or other liquids can be prevented from seeping through the top portion **28** of the removable cover **26** and contacting the foam layer **12** the air cushion **14**, or the non-shear layer **18**.

Non-shearing layer can help prevent further skin tearing when a patient is positioned or moved on the apparatus. The non-shearing layer **18**. Can help prevent friction between the mattress apparatus **10** and the patient's skin, which can help prevent further skin tearing or pulling which can be painful and can further damage the skin.

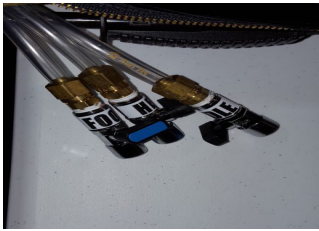
INDICATIONS FOR USE: As defined by the National Pressure Ulcer Advisory Panel, The United Mattress is considered a Class II support surface. The selection of a pressure redistribution surface should be based on the individual patient's clinical condition and/or diagnosis. The United Mattress is a non-powered floatation therapy system to prevent and treat pressure ulcers of any stage.



Common Features of The United Mattress

The air cells and memory foam work simultaneously to float the patient and allow for maximum pressure redistribution



<p>Top Cover</p>	<p>Fluid proof, flame-resistant, tear resistant, cleanable and replaceable. It wipes clean with standard, hospital-grade cleaners. It is removable and can be configured to be water or fluid proof. The material can help prevent moisture build up and generally prolong the life of the mattress.</p>
<p>Bottom Cover</p>	<p>fluid proof, flame-resistant, tear resistant, cleanable, replaceable, and slip-resistant Includes a slip-knot, gripping surface which can help prevent the mattress from sliding and moving while a patient is getting onto, getting off of, or generally moving the mattress.</p>
<p>Non-Shearing Material</p>	<p>Specially designed to decrease shearing forces during patient movement, turning and transfer. Shear injury occurs when the skin is stationary in relation to the support surface.</p>
<p>Memory Foam</p>	<p>4 inches of 4 lb. memory foam. The memory foam works with the air cells to distribute the weight of the patient and relieve pressure on the patient's body.</p>
<p>Air Cell</p>	<p>Made of flame-retardant PVC film. Each section is composed of 20 individual air cells, which work in correlation with the memory foam to relieve pressure points.</p>
<p>Valves</p> 	<p>Each mattress has three valves located at the foot of the mattress. Each valve is able to increase and decrease the air pressure in the section in which it is labeled with the handheld pump located at the foot of the mattress</p>



Directions for Initial Setup

The United Mattress will be delivered to the facility or patient's home completely inflated, and it will only be required to be adjusted to the patient's comfort.

*If your mattress' air cells are deflated, please complete steps 1-6.

1) Confirm that the bed frame is appropriate for use with the mattress, and that the width and length of the mattress are appropriate to the bed frame. Place The United Mattress on the patient's bed frame with the valves at the foot of the bed. The slip-knot material lays on the bed frame. Never place The United Mattress on top of another mattress.

WARNING: Do not allow for gaps or spaces between the mattress and bed frame.

2) The valves are located at the foot/bottom of the mattress. Insure each of the valves are open by turning them parallel to the hose and nozzle. Each valve is labeled either "Head", "Middle" or "Foot" and controls each respective section of the mattress.

3) Once the valve is open, insert either a manual hand pump or a portable electric pump into the opening and fully inflate that section. If using the manual hand pump, insert the brass fitting into the valve and tighten into the valve. Once the brass fitting is secure, begin inflating the section.

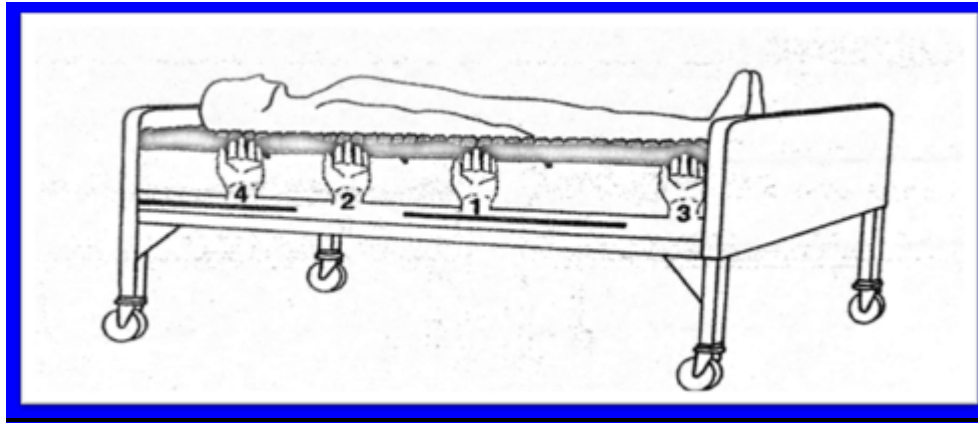
4) Once a section is inflated, remove the pump, and turn the valve perpendicular to the nozzle to close and seal it. Repeat steps 3 and 4 for all three sections of the mattress.

5) Lay the patient on The United Mattress and adjust it to his or her comfort. *The middle section of The United should be slightly below the head and the foot portions of the mattress. One can adjust the pressure of each section by opening and closing the valves to release the air.

6) If at any point more air is needed in a section to make a patient feel more comfortable, simply add more air by repeating steps 3 and 4. Adjustments can be made while the patient is on or off the mattress.



Proper Inflation of The United Mattress



Check for the patient's comfort and proper inflation. For a patient's mattress to be properly inflated, a caregiver should be able to slide her hand under the patient's boniest parts with minimal resistance. These parts are including but not limited to, the shoulders, sacrum, and heels. If air should need to be adjusted to achieve minimal resistance of these points, open the valve which correlates to that section at the foot of the mattress.



GENERAL GUIDANCE

BED RAILS AND ENTRAPMENT RISK:

Bed rails are not required for The United Mattress. Bed rails of any length should be chosen at the facility's protocol. Should a licensed caregiver determine that bed rails are necessary as part of a patient's course of care, all governmental and facility protocols should be strictly followed in order to minimize entrapment risks.

POWER LOSS:

Power loss is not an issue. Because The United Mattress does not require electricity, there are no additional steps to take to ensure patient safety in the event of power loss regarding the mattress.

CPR

The American Heart Association recommends performing CPR on a hard, level surface. Should a patient require CPR, if possible, move the patient to the floor. If that is not possible, place a crash board underneath the patient.

WOUND CARE:

Soft tissue damage can occur for a number of reasons. The United Mattress is only one element in preventing and treating a pressure ulcer. Skin Assessing, repositioning, turning, proper care and nutrition are only a few elements needed to heal and prevent pressure ulcers. The NPUAP suggests to "inspect the skin under and around medical devices at least twice daily for signs of pressure related on surrounding tissue" and patients should be monitored for any signs of tissue damage, including, but not limited to redness, swelling, bruising, and bleeding. If these signs are present, consult with a healthcare representative immediately to determine the best course of action.

A mattress system can help prevent skin damage, but it should always be paired with a proper course of treatment and overseen by a healthcare professional. This includes daily monitoring for skin damage, proper turning practices, etc.

HEAD-OF-BED ELEVATION:

For optimal healing, the head portion of The United Mattress should be below 30 degrees on the bed. According to the guidelines of the National Pressure Ulcer Advisory Panel, a caregiver should limit the head-of-bed elevation to 30 degrees or less for an individual on bedrest, unless contraindicated by a medical condition. If the head of the bed is more than 30 degrees, it puts the skin on the sacrum area at a higher risk for breakdown because of the weight being concentrated on this area.

BED LINENS:

The use of multiple layers of sheets is not recommended as this can increase the risk of pressure wounds developing and decrease the effectiveness of the mattress. It is best to use no more than one fitted sheet, one flat sheet, and one underpad.

CAUTION: Be careful not to puncture the mattress with needles or sharp objects. A puncture in the mattress would cause loss of the integrity of the air cells in the mattress. Do not use the mattress if the cover is damaged by a cut, rip, or tear.



Proper Bed Frame and Body Positioning for Exiting The United Mattress

As with any mattress, proper bed frame height and body positioning will ensure safe entry to and exit from The United Mattress.

Bed Frame Height

Be sure to adjust the bed frame accordingly during initial installation to ensure easy, safe access to and exit from the mattress. With the mattress fully inflated, a patient should be able to sit on top of the mattress with his or her legs at a 90 degree angle, calves against the edge of the mattress, and feet flat on the floor.

Proper Body Positioning

For any patient, especially those with limited mobility or who frequently enter and exit their bed, it is important to follow the steps below to ensure safe transition from the mattress to the bedroom floor, wheelchair, etc. The United Mattress uses non-powered air cells to provide maximum pressure redistribution. These cells react and stabilize in response to active movement by the patient. For this reason, a patient should take his or her time when exiting the mattress, giving the air cells time to stabilize to provide a firmer surface.

WARNING- As with any mattress, assistance should be given to those patients who need help entering and exiting their bed, especially for those with limited mobility and during night-time hours.



Proper Use and Routine Care

Frame

Confirm that the bed frame is appropriate for use with the mattress, and that the width and length of the mattress are appropriate to the bed frame. Place The United Mattress on the patient's bed frame with the valves at the foot of the bed. The slip-knot material lays on the bed frame. Never place The United Mattress on top of another mattress.

WARNING: Do not allow for gaps or spaces between the mattress and bed frame

Cleaning and Disinfecting

When used properly, the outer mattress cover should be the only portion of the mattress system that would need to be cleaned or disinfected. If that need arises, follow the instructions below.

Cleaning - Should the cover need to be cleaned, we recommend using a soft cloth and warm soapy water. Allow the cover to fully dry before returning it to normal use.

Disinfecting - If you need to disinfect the cover, make sure to first clean the mattress cover per the instructions above. Follow your facility's protocol when cleaning any air mattress. We also recommend following the CDC guidelines for disinfecting medical surfaces. Do not use harsh cleansers, solvents, or detergents. Do not expose the unit to excessive moisture.

The United Mattress should be thoroughly cleaned and disinfected between patients and any time bodily fluids come in contact with the mattress cover. For long-term incontinent applications, clean and disinfect the cover daily.

Where surveillance and epidemiology indicate ongoing transmission of *C. difficile*, and EPA- registered hypochlorite-based disinfectant is recommended. Note: alcohol-based disinfectants are not effective against *C. difficile* and should not be used to disinfect environmental services.

RECOMMENDED INSPECTIONS:

A facility should inspect the mattress cover periodically for punctures, tears, rips, or any other damages that could allow fluids to pass-through. If the cover is damaged and contamination of internal components have been compromised, remove the mattress from service following infection control procedures. The air cells may require periodic adjustments over time.

STORAGE:

The United Mattress system should be stored flat on a level surface in a controlled environment. Facilities should avoid storing other items on top of the mattress.

[Troubleshooting for The United Mattress](#)



- Not Holding Air/ Not staying inflated: If your mattress is not holding air, or a patient experiences a sudden loss of pressure, first make sure that each of the three release valves are in the closed position.
- If the valves are not in the closed position, inflate the mattress to the desired pressure, and ensure that the valves are completely closed, and the valve hoses are tucked out of the way.
- If the valves are fully closed and the mattress will still not hold air, inspect the mattress for punctures or holes.
- If a puncture, tear, or hole is located, contact customer service to learn about repair options.
- If there is not a visible tear or puncture, contact Customer Service to schedule a consultation as this may be covered under the manufacturer's warranty.

Patient Complaints:

- Too hard or too soft: If the patient describes the mattress as being too hard or too soft, adjust each section of the mattress accordingly by either releasing air or inflating the mattress further by the valves. A person can adjust one section, two sections, or all three sections.

Cautions

Do not pick up or carry the mattress by the valves or hoses as it may permanently damage the product.

Do not expose the product to extreme temperatures (hot or cold), open flames, hot ash, or sharp objects.



Specifications

Cover:

- Upper: Fluid Proof, flame-resistant, and tear resistant
- Lower: Fluid Proof, flame-resistant, and slip-resistant

Memory Foam: 4 inches and 4lb- Memory Foam

Air Cells: Flame-retardant PVC film

Non-Shearing Layer: Specially designed to decrease shearing forces during patient movement, turning, and transfer



ORDERING INFORMATION

PRODUCT NAME	MODEL NUMBER	MATTRESS SIZE AND WEIGHT CAPACITY
The United Mattress Regular	UM1001	36" W x 80" L x ~9"H 500lbs
The United Mattress Bariatric	UM2001	42" W x 80L" x ~9"H 700 lbs.
The United Mattress Regular Scoop	UM3001	36" W x 80" L x ~11"H 500lbs
The United Mattress Bariatric Scoop	UM4001	42" W x 80L" x ~11"H 700 lbs.



Warranty and Repairs

The United Mattress – 3-Year Manufacturer Warranty

The United Mattress system and its components are guaranteed for three full years from the initial sale of each new mattress. This warranty is extended to the original purchaser of the mattress only and is non-transferrable. This warranty guarantees that the mattress is free from defects in materials, workmanship, and assembly upon delivery, and includes full support from The United Mattress, LLC to address any issues that arise from normal wear and use over the course of the warranty period.

Should a mattress or any component prove to be defective within this time frame, the mattress or damaged components shall be repaired or replaced with new or refurbished components by a certified member of The United Mattress, LLC Service Team. In the event that warranty service is needed, the original purchaser can call The United Mattress, LLC at 1-888-535-6244 and a customer service representative will coordinate a full repair or replacement. Please have the serial number or a copy of the original purchase receipt available when you call.

Limitations and Exclusions: This warranty does not cover damage due to improper use, storage, or cleaning of The United Mattress, expose to fire, hot ash, or extreme heat/cold sources, sharp objects, intentional or accidental negligence, and/or unauthorized modifications made to the original product.

Customer Service

Should you have any questions about the use of this product or need warranty assistance, call our Customer Service Department at 1-888-535-6244.



Maintenance Repair Instructions for the Air Cells

- 1) Locate the leak:
 - a) Inflate the air cells and then turn all inflation valves to CLOSE. Listen for the air escaping from a hole in the cell. If you cannot hear the air releasing, immerse the product in water. To locate the leak, look for rising air bubbles. Remove the product from water.
- 2) Prepare the area of the leak:
 - a) Use a cloth to dry the area of the leak. Mark the area around the leak with a permanent marker.
 - b) Use an isopropyl alcohol pad to wipe the area of the leak. Use a clean, dry cloth to remove any excess alcohol. - Air Dry
 - c) Turn all inflation valves counterclockwise to deflate the product. Remove enough air to easily apply the patch.
- 3) Apply the Patch:
 - a) Hold one edge of the patch above the leak and apply the edges, use a hard, curved object, such as the back of a spoon, and firmly press down on all areas of the patch. Remove all trapped air until the patch appears uniformly dark.
 - b) After the patch is sealed, wait at least five minutes before you inflate and use the air cells.

If you have any questions, please contact a customer service representative 888-535-6244



Quick Reference Guide:

Class of Support Surface:	Class II Support Surface
Stage of Pressure Ulcer/Injury	Stage 1-4
Type of Mattress:	Air Floatation Redistribution Therapy

Below is a Quick Start Guide

1. The United Mattress:



2. Below is the **Hand Pump** included with your United Mattress. It is located at the foot of the mattress.

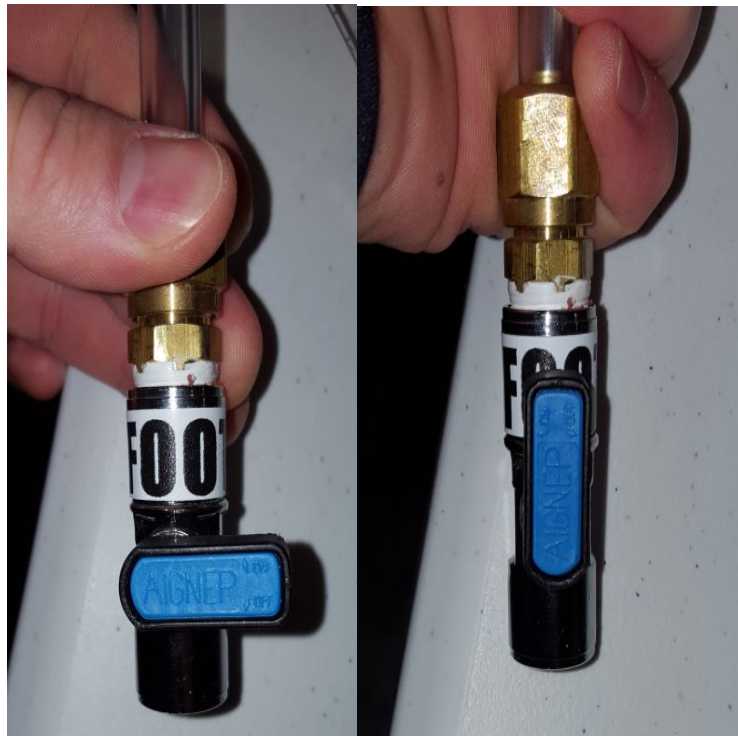




3. Below are the **Head, Middle, and Foot Valves**
Pictured are in the **CLOSED** position:



4. Below is an air valve **CLOSED** on the **Left** and an air valve **OPENED** on the **Right**:



5. To release air from The United Mattress, simply open the air valve in 2-3 second increments, then close the air valve.

The picture **ABOVE** on the **LEFT** is showing how to properly **CLOSE** the valve.
If the valve is **CLOSED** The United Mattress **WILL NOT** lose air, unless punctured.

The picture **ABOVE** on the **RIGHT** is showing how to properly **OPEN** the valve.

If the valve is **OPEN**, The United Mattress **WILL LOSE AIR**.



6. To **ADD** air to The United Mattress, use the hand pump that is provided to you. See **picture 2**. Please leave the valve in the **CLOSED** position while tightening the hand pump into valve. If not, the air cell will lose more air. After the hand pump is attached, please

OPEN the air valve completely and manually pump the hand pump until the mattress is at the patient's desired firmness. Once the mattress is inflated, please **CLOSE** the air valve completely and unscrew the hand pump when you reach the desired firmness.

See photos below:



Thank you for choosing The United Mattress