



# HOVERTECH HM28DC HoverMatt Air Transfer System User Manual

[Home](#) » [HOVERTECH](#) » HOVERTECH HM28DC HoverMatt Air Transfer System User Manual 

## Contents

- 1 HM28DC HoverMatt Air Transfer System
- 2 Specifications
- 3 Product Usage Instructions
- 4 Frequently Asked Questions (FAQ)
- 5 Intended Use and Precautions
- 6 HT-Air® 1200 Air Supply Keypad Function
- 7 Instructions for Use – HoverMatt® Air Transfer System
- 8 Instructions for Use – HoverMatt® SPU Link
  - 8.1 ATTACHING TO BEDFRAME
  - 8.2 LATERAL TRANSFER
- 9 Instructions for Use – HoverMatt® Split-Leg Matt
  - 9.1 LITHOTOMY POSITION
  - 9.2 LATERAL TRANSFER
- 10 Instructions for Use – HoverMatt® Half-Matt
- 11 Product Specifications/Required Accessories
  - 11.1 HOVERMATT® AIR TRANSFER MATTRESS (REUSABLE)
  - 11.2 HOVERMATT® SINGLE-PATIENT USE AIR TRANSFER MATTRESS
- 12 Using the HoverMatt® Air Transfer System in the Operating Room
- 13 Cleaning and Preventive Maintenance
- 14 Documents / Resources
  - 14.1 References



**HM28DC HoverMatt Air Transfer System**



## Specifications

- Compatible with HoverTech air-assisted positioning devices
- Four different adjustable settings for air pressure and rate of inflation
- Standby mode to stop inflation/airflow
- Compatible with HoverMatt sizes: 28/34 and 39/50
- Compatible with HoverJack sizes: 32 and 39
- Compatible with Air200G and Air400G Air Supplies

## Product Usage Instructions

### Step 1: Patient Positioning

1. The patient should preferably be in a supine position.
2. Place the HoverMatt underneath the patient using a log-rolling technique and secure the patient safety straps loosely.

### Step 2: Power Connection

3. Plug the HoverTech Air Supply power cord into an electrical outlet.

### Step 3: Hose Connection

4. Insert the hose nozzle into either of the two hose entries at the foot end of the HoverMatt and snap it into place.

### Step 4: Surface Preparation

5. Ensure that the transfer surfaces are as close as possible and lock all wheels.
6. If possible, transfer from a higher surface to a lower surface.

### **Step 5: Initiating Transfer**

7. Turn on the HoverTech Air Supply.
8. Push the HoverMatt at an angle, either headfirst or feetfirst.
9. Once halfway across, the opposite caregiver should grasp the closest handles and pull to the desired location.

### **Step 6: Patient Positioning and Deflation**

9. Ensure the patient is centered on the receiving equipment prior to deflation.
10. Turn off the air supply and employ the bed/stretchers rails.
11. Unbuckle the patient's safety straps.

**Note:** When using the 50 HoverMatt, two air supplies may be used for inflation.

## **Frequently Asked Questions (FAQ)**

### **Can I use the HT-Air with DC power supplies?**

No, the HT-Air is not compatible with DC power supplies.

### **Can I use the HT-Air with the HoverJack Battery Cart?**

No, the HT-Air is not for use with the HoverJack Battery Cart.

### **3. What are the different settings in the ADJUSTABLE range used for?**

The ADJUSTABLE setting is used with HoverTech air-assisted positioning devices. Each press of the button increases the air pressure and rate of inflation. It is a safety feature to ensure patient centering and can be used to gradually accustom a timid or painful patient to inflated devices. However, it should not be used for transferring.

## **Intended Use and Precautions**

### **INTENDED USE**

The HoverMatt® Air Transfer System is used to assist caregivers with patient transfers, positioning, turning and proning. The HoverTech Air Supply inflates the HoverMatt to cushion and cradle the patient, while air simultaneously escapes from the holes on the underside, reducing the force needed to move the patient by 80-90%.

### **INDICATIONS**

- Patients unable to assist in their own lateral transfer
- Patients whose weight or girth poses a potential health risk for the caregivers responsible for repositioning or laterally transferring said patients.

## **CONTRAINDICATIONS**

Patients who are experiencing thoracic, cervical, or lumbar fractures that are deemed unstable, unless using in conjunction with a spinal board on top of the HoverMatt (follow your state's protocol regarding use of spinal boards)

## **INTENDED CARE SETTINGS**

Hospitals, long-term or extended care facilities

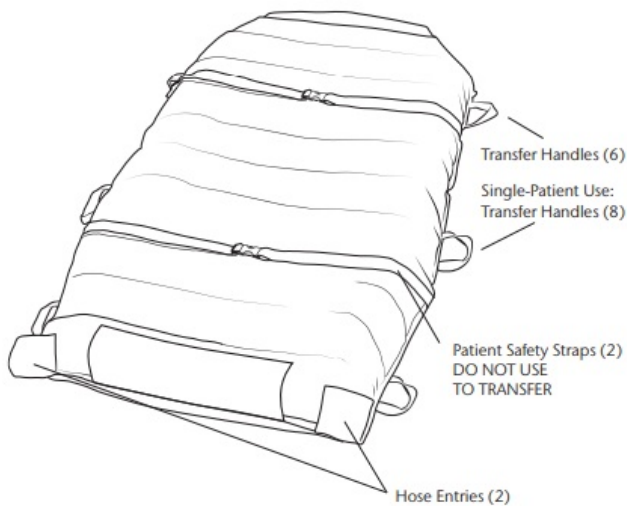
## **PRECAUTIONS – HOVERMATT**

- Caregivers must verify that all caster brakes have been engaged prior to transfer.
- For safety, always use two people during patient transfer.
- Additional caregivers are recommended when moving a patient over 750 lbs/340kg.
- Never leave a patient unattended on an inflated device.
- Use this product only for its intended purpose as described in this manual.
- Only use attachments and/or accessories that are authorized by Hov-erTech International.
- When transferring to a low air loss bed, set the bed mattress airflow to the highest level for a firm transfer surface.
- Never attempt to move a patient on an uninflated HoverMatt.
- **WARNING:** In the OR – To prevent the patient from slipping, always deflate the HoverMatt and secure the patient and HoverMatt to the OR table prior to moving the table into an angled position.

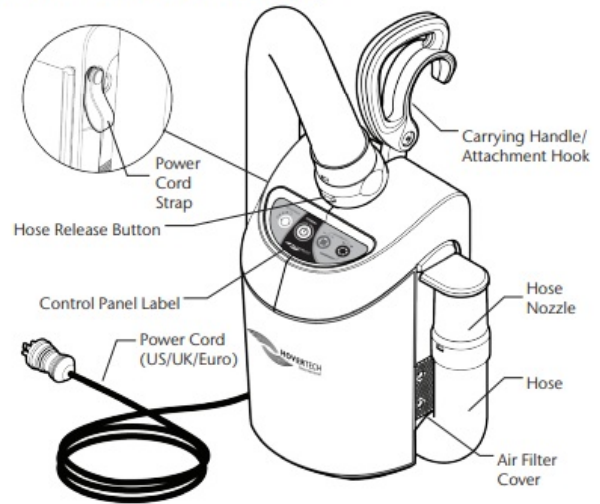
## **PRECAUTIONS – AIR SUPPLY**

- Not for use in the presence of flammable anesthetics or in a hyperbaric chamber or oxygen tent.
- Route the power cord in a manner to ensure freedom from hazard.
- Avoid blocking the air intakes of the air supply.
- When using the HoverMatt in the MRI environment, a 25 ft. specialty MRI hose is required (available for purchase).
- **CAUTION:** Avoid electric shock. Do not open air supply.
- **WARNING:** Reference product specific user manuals for operating instructions.

## Part Identification – HoverMatt® Air Transfer Mattress

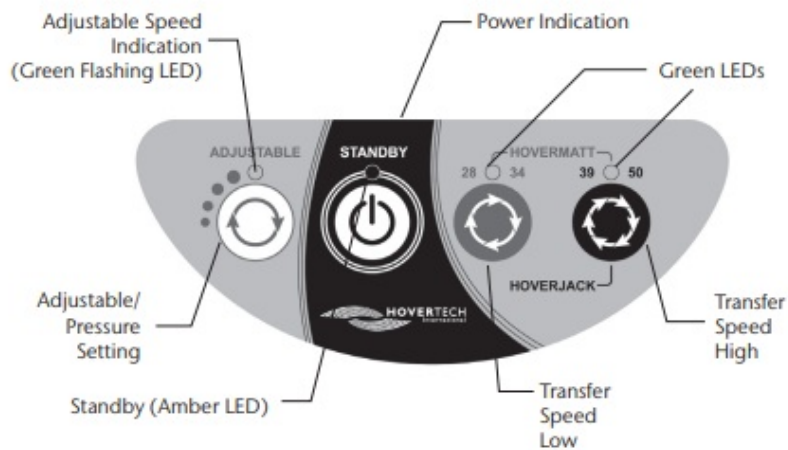


## Part Identification – HT-Air® 1200 Air Supply



WARNING: The HT-Air is not compatible with DC power supplies.  
The HT-Air is not for use with the Hoverjack Battery Cart.

## HT-Air® 1200 Air Supply Keypad Function



## HT-Air® 1200 Air Supply Keypad Function



**ADJUSTABLE:** For use with HoverTech air-assisted positioning devices. There are four different settings. Each press of the button increases the air pressure and rate of inflation. The Green Flashing LED will indicate the inflation speed by the number of flashes (i.e. two flashes equals the second inflation speed). All of the settings in the ADJUSTABLE range are substantially lower than the HoverMatt and HoverJack settings. The ADJUSTABLE function is not to be used for transferring. The ADJUSTABLE setting is a safety feature that can be used to ensure the patient is centered on HoverTech air-assisted devices and to gradually accustom a patient who is timid or in pain to both the sound and functionality of the inflated devices.



**STANDBY:** Used to stop inflation/air flow (Amber LED indicates STANDBY mode).



**HOVERMATT 28/34:** For use with 28" & 34" HoverMatts and HoverSlings.



**HOVERMATT 39/50 & HOVERJACK:** For use with 39" & 50" HoverMatts and HoverSlings and 32" & 39" HoverJacks.

## **Instructions for Use – HoverMatt® Air Transfer System**

1. Patient should preferably be in a supine position.
2. Place HoverMatt underneath patient using a log-rolling technique and secure patient safety straps loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two hose entries at foot end of HoverMatt and snap into place.
5. Ensure that transfer surfaces are as close as possible and lock all wheels.
6. If possible, transfer from a higher surface to a lower surface
7. Turn on HoverTech Air Supply
8. Push HoverMatt at an angle, either headfirst or feetfirst. Once half-way across, opposite caregiver should grasp closest handles and pull to desired location
9. Ensure patient is centered on receiving equipment prior to deflation.
10. Turn off air supply and employ the bed/stretchers rails. Unbuckle patient safety straps.

NOTE: When using the 50" HoverMatt, two air supplies may be used for inflation.

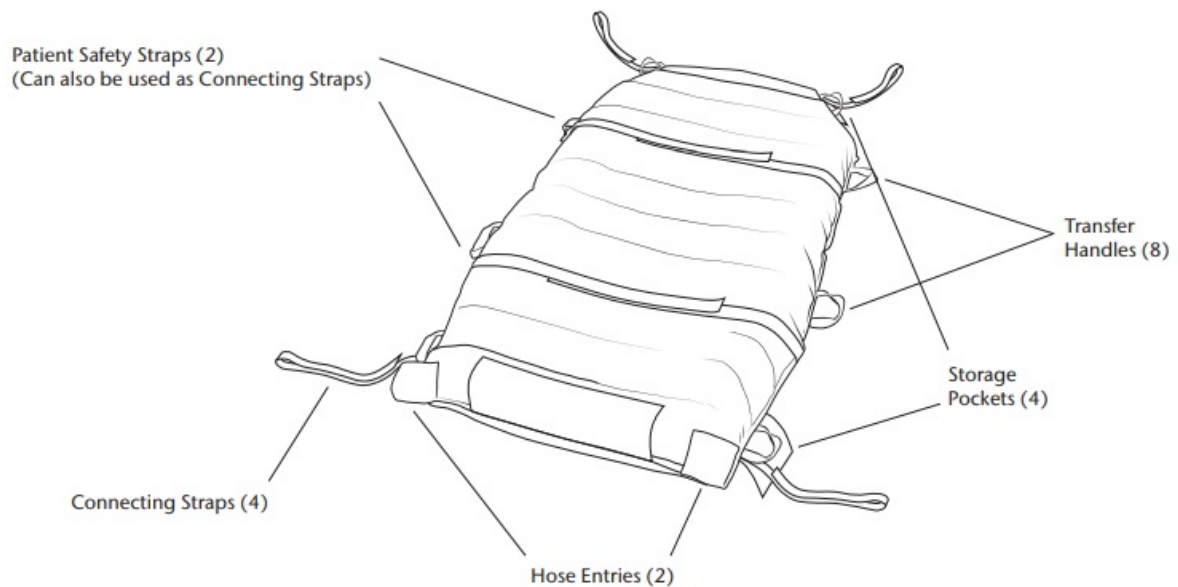
## **Instructions for Use – HoverMatt® SPU Link**

### **ATTACHING TO BEDFRAME**

1. Remove connecting straps from pockets and loosely attach to solid points on the bed frame to allow the SPU Link to move with the patient.
2. Before lateral transfers and positioning, disconnect connecting straps from bed frame and stow in corresponding storage pockets.

### **LATERAL TRANSFER**

1. Patient should preferably be in a supine position.
2. Place HoverMatt underneath patient using a log-rolling technique and secure patient safety straps loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two hose entries at foot end of HoverMatt and snap into place.
5. Ensure that transfer surfaces are as close as possible and lock all wheels.
6. If possible, transfer from a higher surface to a lower surface.
7. Turn on HoverTech Air Supply.
8. Push HoverMatt at an angle, either headfirst or feetfirst. Once half-way across, opposite caregiver should grasp closest handles and pull to desired location.
9. Ensure patient is centered on receiving equipment prior to deflation.
10. Turn off air supply and employ the bed/stretchers rails. Unfasten patient safety straps.
11. Remove connecting straps from pockets and loosely attach to solid points on bed frame.



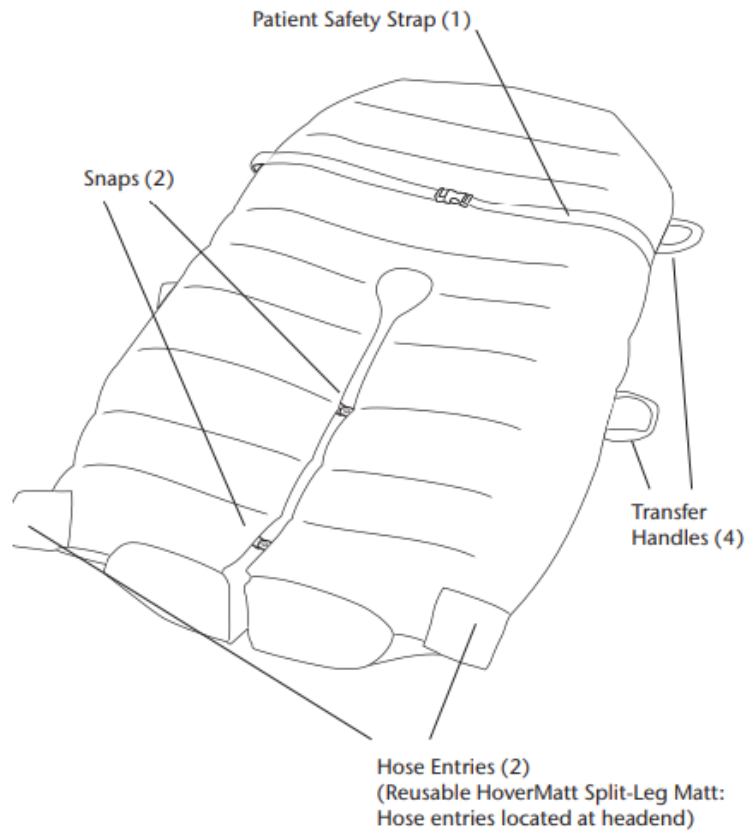
## Instructions for Use – HoverMatt® Split-Leg Matt

### LITHOTOMY POSITION

1. Separate the legs into two individual sections by disconnecting the snaps.
2. Position each section on the table with the patient's legs.

### LATERAL TRANSFER

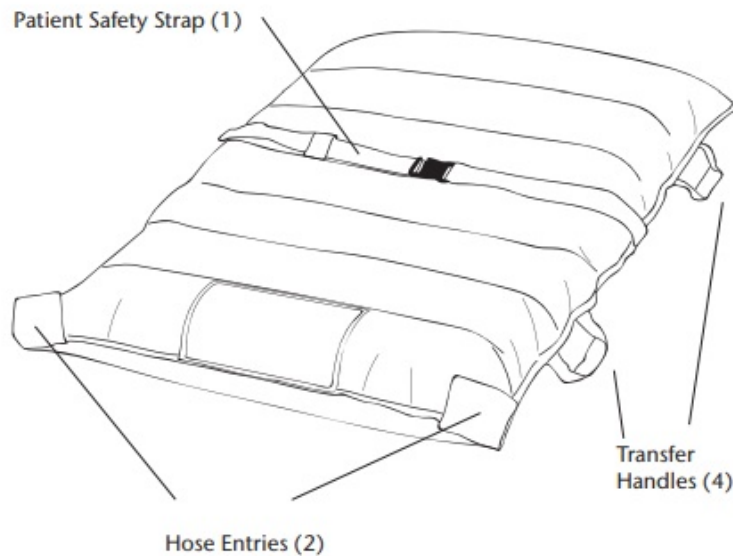
1. Ensure all snaps located at the center leg and foot sections are connected.
2. Patient should preferably be in supine position.
3. Place the HoverMatt underneath the patient using a log-rolling technique and secure patient safety strap loosely.
4. Plug HoverTech Air Supply power cord into an electrical outlet.
5. Insert hose nozzle into either of the two hose entries located at the headend of the Reusable Split-Leg Matt, or at the footend of the Single-Patient Use Split-Leg Matt, and snap into place.
6. Ensure that transfer surfaces are as close as possible and lock all wheels.
7. If possible, transfer from a higher surface to a lower surface.
8. Turn on HoverTech Air Supply.
9. Push HoverMatt at an angle, either headfirst or feetfirst. Once half-way across, opposite caregiver should grasp closest handles and pull to desired location.
10. Ensure patient is centered on receiving equipment prior to deflation.
11. Turn off HoverTech Air Supply and employ bed/stretchers rails. Unbuckle patient safety strap.
12. When the Split-Leg Matt is deflated, position each leg section as appropriate.



### Instructions for Use – HoverMatt® Half-Matt

1. Patient should preferably be in a supine position.
2. Place HoverMatt underneath patient using a log-rolling technique and secure patient safety strap loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert hose nozzle into either of two hose entries at foot end of Hover-Matt and snap into place.
5. Ensure that transfer surfaces are as close as possible and lock all wheels.
6. If possible, transfer from a higher surface to a lower surface.
7. Turn on HoverTech Air Supply.
8. Push HoverMatt at an angle, either headfirst or feetfirst. Once half-way across, opposite caregiver should grasp closest handles and pull to desired location. Ensure caregiver at footend guides patient's feet during the transfer.
9. Ensure patient is centered on receiving equipment prior to deflation.
10. Turn off HoverTech Air Supply and employ the bed/stretchers rails. Unbuckle patient safety strap.





**WARNING:** ALWAYS USE A MINIMUM OF THREE CAREGIVERS WHEN USING THE HOVERMATT HALF-MATT.

## Product Specifications/Required Accessories

### HOVERMATT® AIR TRANSFER MATTRESS (REUSABLE)

#### Material:

Heat-Sealed: Nylon twill

Double-Coated: Nylon twill with silica polyurethane coating on patient side

#### Construction: RF-Welded

**Width:** 28" (71 cm), 34" (86 cm), 39" (99 cm), 50" (127 cm)

**Length:** 78" (198 cm)

**Half-Matt:** 45" (114 cm)

#### Heat-Sealed Construction

Model #: HM28HS – 28" W x 78" L

Model #: HM34HS – 34" W x 78" L

Model #: HM39HS – 39" W x 78" L

Model #: HM50HS – 50" W x 78" L

#### Double-Coated Construction

Model #: HM28DC – 28" W x 78" L

Model #: HM34DC – 34" W x 78" L

Model #: HM39DC – 39" W x 78" L

Model #: HM50DC – 50" W x 78" L

#### HoverMatt Split-Leg Matt

Model #: HMSL34DC – 34" W x 78" L

WEIGHT LIMIT 1200 LBS/ 544 KG

HoverMatt Half-Matt

Model #: HM-Mini34HS – 34" W x 45" L

Double-Coated Construction

Model #: HM-Mini34DC – 34" W x 45" L  
WEIGHT LIMIT 600 LBS/ 272 K

## **HOVERMATT® SINGLE-PATIENT USE AIR TRANSFER MATTRESS**

**Material:** Top: Non-woven polypropylene fiber

**Bottom:** Nylon twill

**Construction:** Sewn

**Width:** 34" (86 cm), 39" (99 cm), 50" (127 cm)

**Length:** 78" (198 cm)

**Half-Matt:** 45" (114 cm)

### **HoverMatt Single-Patient Use**

Model #: HM34SPU – 34" W x 78" L (10 per box)

Model #: HM34SPU-B – 34" W x 78" L (10 per box)\*

Model #: HM39SPU – 39" W x 78" L (10 per box)

Model #: HM39SPU-B – 39" W x 78" L (10 per box)\*

Model #: HM50SPU – 50" W x 78" L (5 per box)

Model #: HM50SPU-B – 50" W x 78" L (5 per box)\*

Model #: HM50SPU-1Matt – 50" W x 78" L (1 Unit)

Model #: HM50SPU-B-1Matt – 50" W x 78" L (1 Unit)\*

### **HoverMatt SPU Split-Leg Matt**

Model #: HM34SPU-SPLIT – 34" W x 64" L (10 per box)

Model #: HM34SPU-SPLIT-B – 34" W x 64" L (10 per box)\*

### **HoverMatt SPU Link**

Model #: HM34SPU-LNK-B – 34" W x 78" L (10 per box)\*

Model #: HM39SPU-LNK-B – 39" W x 78" L (10 per box)\*

Model #: HM50SPU-LNK-B – 50" W x 78" L (5 per box)\*

WEIGHT LIMIT 1200 LBS/ 544 KG

### **HoverMatt SPU Half-Matt**

Model #: HM34SPU-HLF – 34" W x 45" L (10 per box)

Model #: HM34SPU-HLF-B – 34" W x 45" L (10 per box)\*

Model #: HM39SPU-HLF – 39" W x 45" L (10 per box)

Model #: HM39SPU-HLF-B – 39" W x 45" L (10 per box)\*

WEIGHT LIMIT 600 LBS/ 272 KG

\*Breathable model

### **REQUIRED ACCESSORY:**

Model #: HTAIR1200 (North American Version) – 120V~, 60Hz, 10A

Model #: HTAIR2300 (European Version) – 230V~, 50 Hz, 6A

Model #: HTAIR1000 (Japanese Version) – 100V~, 50/60 Hz, 12.5A

Model #: HTAIR2356 (Korean Version) – 230V~, 50/60 Hz, 6A

Model #: AIR200G (800 W) – 120V~, 60Hz, 10A

Model #: AIR400G (1100 W) – 120V~, 60Hz, 10A

## **Using the HoverMatt® Air Transfer System in the Operating Room**

### **OPTION 1**

Place the HoverMatt on the Pre-Op stretcher or bed prior to patient arrival. Have patient ambulate onto bed/stretcher or use a HoverMatt to perform a lateral transfer. Once in the OR, ensure the OR table is secured and locked to the floor, then transfer the patient onto the OR table. Have a caregiver at the head of OR table

ensure the patient is centered before deflating the HoverMatt. Position the patient as needed for surgery. Tuck the edges of the HoverMatt under the OR table pad, and ensure table rails are accessible. For supine surgeries, follow your facility's patient positioning protocol. After the case, release the edges of the HoverMatt from under the OR table. Buckle patient safety straps loosely. Partially inflate the HoverMatt using the ADJUST-ABLE setting, have headend caregiver ensure the patient is centered, and then fully inflate using the appropriate high-speed setting. Transfer the patient to the stretcher or bed.

## **OPTION 2**

Prior to patient arrival, place the HoverMatt on the OR table and tuck the edges under the OR table pad. Ensure table rails are accessible. Transfer the patient onto the table, and proceed as described in Option 1.

### **• TRENDELENBURG POSITION**

If Trendelenburg or Reverse Trendelenburg is required, an appropriate anti-slide device that secures to the frame of the OR table must be used. For Reverse Trendelenburg, a device that clamps to the OR table frame, such as a footplate, should be used. If the surgery also includes a tilt side-to-side (airplaning), the patient must be safely secured to accommodate this position prior to starting surgery.

## **Cleaning and Preventive Maintenance**

In between patient uses, the HoverMatt should be wiped down with a cleaning solution used by your hospital for medical equipment disinfection. A 10:1 bleach solution (10 parts water: one part bleach) or disinfectant wipes can also be used. It is important to follow the cleaning solution manufacturer's instructions for use, including dwell time and saturation.

**NOTE:** Cleaning with bleach solution may discolor fabric.

If a reusable HoverMatt becomes badly soiled, it should be laundered in a washing machine with a 160° F (65° C) maximum water temperature. A 10:1 bleach solution may be used (10 parts water: one part bleach) during the wash cycle.

The HoverMatt should be air dried if possible. Air drying can be expedited by using the air supply to circulate air through the inside of the HoverMatt. If using a dryer, the temperature setting should be set on the coolest setting. Drying temperature should never exceed 115° F (46° C). The backing of the nylon is polyurethane and will begin to deteriorate after repeated high temperature drying. The Double-Coated HoverMatt should not be put in the dryer.

To help keep the HoverMatt clean, HoverTech International recommends the use of their disposable sheets. Whatever the patient is lying on to keep the hospital bed clean may also be placed on top of the HoverMatt. The Single-Patient Use HoverMatt is not intended to be laundered or reprocessed.

## **AIR SUPPLY CLEANING AND MAINTENANCE**

See air supply manual for reference.

**NOTE:** CHECK YOUR LOCAL/STATE/FEDERAL/INTERNATIONAL GUIDELINES BEFORE DISPOSAL.

## **PREVENTIVE MAINTENANCE**

Prior to use, a visual inspection should be performed on the HoverMatt to ensure that there is no visible damage that would render the HoverMatt unusable. The HoverMatt should have all of its patient safety straps and handles (reference the manual for all appropriate parts). There should be no tears or holes that would prevent the HoverMatt from inflating. If any damage is found that would cause the system not to function as intended, the HoverMatt should be removed from use and returned to HoverTech International for repair (Single-Patient Use HoverMatts should be discarded).

## **INFECTION CONTROL**

HoverTech International offers superior infection control with our heat-sealed reusable HoverMatt. This unique construction eliminates the needle holes of a sewn mattress which can be potential bacterial entryways. Additionally, the heat-sealed, Double-Coated HoverMatt offers a stain and fluid proof surface for easy cleaning. The Single-Patient Use HoverMatt is also available to eliminate the possibility of cross-contamination and the need for laundering.

If the HoverMatt is used for an isolated patient, the hospital should employ the same protocols/procedures it utilizes for the bed mattress and/or for linens in that patient's room.

## **Warranty Statement**

The reusable HoverMatt is warranted to be free from defects in materials and workmanship for (1) one year. Warranty begins on the date of in-service by a HoverTech International representative or shipment date. In the unlikely event that a problem arises as a result of a defect in materials or workmanship, we will promptly repair your item or replace it if we feel that it cannot be repaired – at our expense and discretion using current models or parts performing the equivalent function – upon receipt of the original item to our repair department. Single-Patient Use HoverMatts are warranted to be free from defects in material and workmanship. In the unlikely event that a problem arises as a result of a defect in materials or workmanship, we will promptly replace the Single-Patient Use HoverMatts within ninety (90) days of purchase or service.

This warranty is not an unconditional guarantee for the life of the product. Our warranty does not cover product damage that may result from use contrary to Manufacturer's instructions or specifications, misuse, abuse, tampering, or damage due to mishandling. The warranty specifically does not cover product damage that may result from using an air supply that produces more than 3.5 psi to inflate the HoverMatt.

Equipment that has been neglected, improperly maintained, repaired, or altered by someone other than an authorized representative of the Manufacturer, or operated in any way contrary to the operating instructions, shall void this warranty.

This warranty does not cover normal "wear and tear." Parts, particularly any optional equipment, valve caps, attachments, and cords, will show wear with use over time and eventually may need to be refurbished or replaced. This normal type of wear is not covered by our warranty, but we will provide prompt, high-quality repair service and parts at a nominal cost.

HoverTech International's liability under this warranty and on any claim of any kind for any loss or damage arising out of, connected with, or resulting from the design, manufacture, sale, delivery, installation, repair or operation of its products, whether in contract or tort, including negligence, shall not exceed the purchase price paid for the product and upon expiration of the applicable warranty period, all such liability terminates. The remedies which this warranty provides are exclusive and HoverTech International shall not be liable for any incidental or consequential damages.

There are no warranties, expressed or implied, which extend beyond this warranty statement. The provisions of these warranty clauses are in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on HoverTech International's part and they neither assume nor authorize any other person to assume for HoverTech International any other liability in connection with Manufacturer sale or lease of said products.

HoverTech International makes no warranty of merchantability or fitness for a particular purpose. There is no warranty that the goods will be fit for a particular purpose. By accepting the goods, the buyer acknowledges that the buyer has determined the goods are suitable for the buyer's purposes.

**MANUFACTURER'S SPECIFICATIONS ARE SUBJECT TO CHANGE.**

## **Returns and Repairs**


All products being returned to HoverTech International (HTI) must have a Returned Goods Authorization (RGA) number issued by the company. Please call (800) 471-2776 and ask for a member of the RGA Team who will issue you an RGA number. Any product returned without an RGA number will cause a delay in the repair time.

HTI's warranty covers the manufacturer's defects in material and workmanship. If a repair is not covered under warranty, a minimum repair fee of \$100 per item will be assessed, plus return shipping. A Purchase Order for the repair charge should be provided by the facility at the time the RGA number is issued, should the repair not be covered under warranty. Lead time for repairs is approximately 1-2 weeks, not including shipping time.



Returned products should be sent to:  
HoverTech International  
Attn: RGA # \_\_\_\_\_  
4482 Innovation Way  
Allentown, PA 18109

---

## Documents / Resources

	<p><a href="#">HOVERTECH HM28DC HoverMatt Air Transfer System</a> [pdf] User Manual HM28DC, HM28DC HoverMatt Air Transfer System, HoverMatt Air Transfer System, Air Transfer System, Transfer System, System</p>
---	---

## References

-  [Manual-Hub.com - Free PDF manuals!](#)
-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

### Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.