



# HOVERTECH HM28HS HOVERMATT Air Transfer System User Manual

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## HOVERTECH HM28HS HOVERMATT Air Transfer System User Manual



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## Symbol Reference





MANUAL CLEANING



LOCK ALL WHEELS



ENSURE PATIENT IS FLAT



CENTER PATIENT



ATTACH LINK STRAP



LATEX FREE



LOT NUMBER



MANUFACTURER



DATE OF MANUFACTURE



MEDICAL DEVICE



SINGLE PATIENT – MULTIPLE USE



DO NOT LAUNDRER



UNIQUE DEVICE IDENTIFIER



PATIENT WEIGHT LIMIT



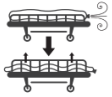
USE TWO CAREGIVERS



USE THREE CAREGIVERS



STAY CLOSE APPROACH



DEFLATE, RAISE RAILS



LOOP STYLE HANGER BAR



FASTEN PATIENT STRAP (BUCKLE)



FASTEN PATIENT STRAP (VELCRO®)



FOOT END

**REF**

MODEL NUMBER

**SN**

SERIAL NUMBER



**DECLARATION OF CONFORMITY**

This product conforms to the requirements of Medical Devices Regulation (2017/745).

## **Intended Use and Precautions**

### **INTENDED USE**

The HoverMatt® Air Transfer System is used to assist caregivers with patient transfers, positioning (including boosting and 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 should not use the HoverMatt unless a clinical decision has been made by your facility.

## **INTENDED CARE SETTINGS**

- Hospitals, long term or extended care facilities.

## **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).



**Avoid electric shock. Do not open air supply.**



**Reference product specific user manuals for operating instructions.**

## **PRECAUTIONS – HOVERMATT**

- Caregivers must verify that all brakes have been engaged prior to transfer.
- Use a minimum of two caregivers during air-assisted lateral patient transfers.
- For in-bed air-assisted positioning tasks, more than one caregiver may be required.
- For air-assisted proning, see training video at [www.HoverMatt.com](http://www.HoverMatt.com).
- Never leave 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 HoverTech.
- When transferring to and from a low air loss bed, set the bed mattress air flow to the highest level for a firm transfer surface.
- Never attempt to move a patient on an uninflated HoverMatt.



**Side rails must be raised with one caregiver.**

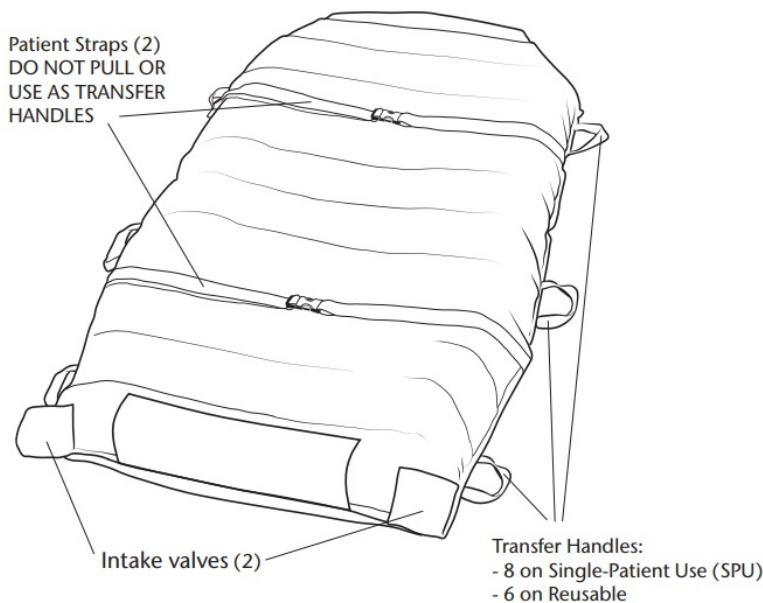


**In the OR – To prevent patient from slipping, always deflate the HoverMatt and secure the patient and HoverMatt to the OR table prior to moving the table into an angled position.**

## Instructions for Use – HoverMatt®\* and HoverMatt® SPU

1. Patient should preferably be in a supine position.
2. Place HoverMatt underneath patient using a log-rolling technique and secure patient straps loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two intake valves at foot end of HoverMatt – snap into place and close flap.
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 raise the bed/stretchers rails. Unbuckle patient straps.

**NOTE:** When using the HoverMatt with patients of size or when more lift is needed, two air supplies may be used for inflation.



## Instructions for Use – HoverMatt® SPU Link

### ATTACHING TO BEDFRAME

1. Remove Link 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 Link straps from bed frame and stow in corresponding storage pockets.

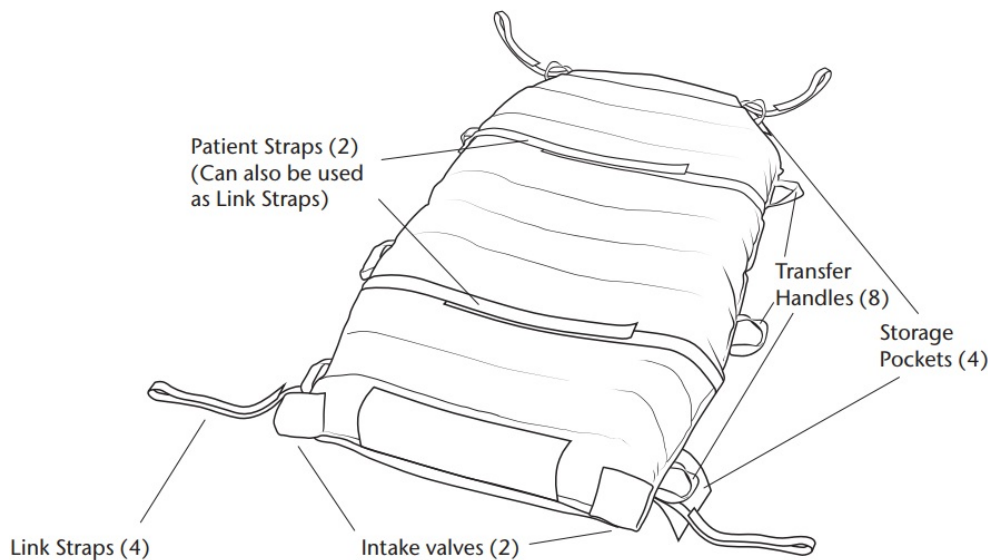
### LATERAL TRANSFER

1. Patient should preferably be in a supine position.
2. Place HoverMatt SPU Link underneath patient using a log-rolling technique and secure patient straps loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two intake valves at foot end of HoverMatt SPU Link and snap into place

and close flap.

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 SPU Link 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 raise the bed/stretchers rails. Unfasten patient straps.
11. Remove Link straps from pockets and loosely attach to solid points on bed frame.

**NOTE:** When using the HoverMatt with patients of size or when more lift is needed, two air supplies may be used for inflation.



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

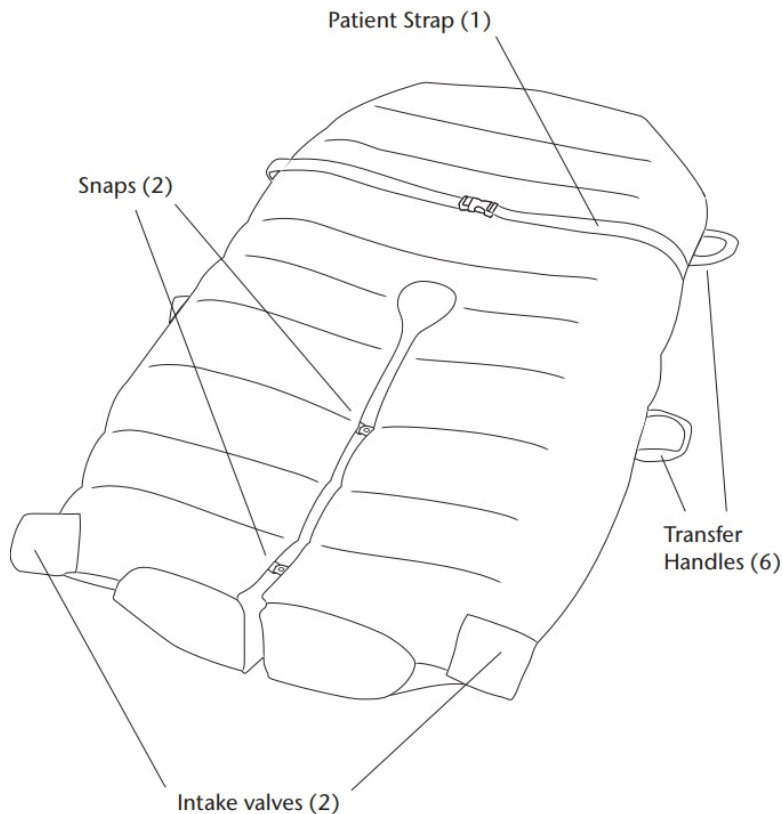
### LITHOTOMY POSITION

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 SPU Split-Leg underneath the patient using a log-rolling technique and secure patient strap loosely.
4. Plug HoverTech Air Supply power cord into an electrical outlet.
5. Insert hose nozzle into either of the two intake valves located at the footend of the HoverMatt SPU Split-Leg, 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.

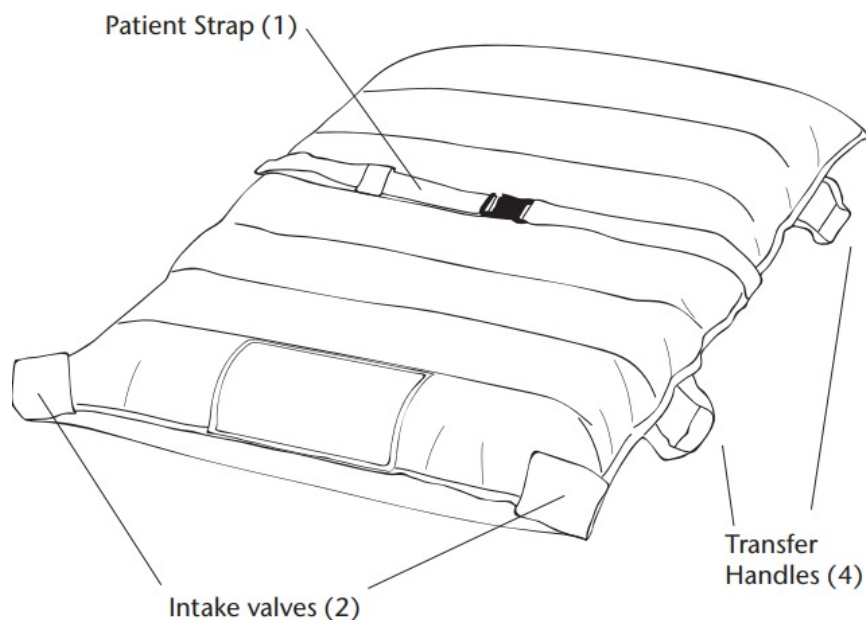
9. Push HoverMatt SPU Split-Leg at an angle, either headfirst or feetfirst. Once half way across, opposite caregiver should grasp closest handles and pull to desired location.
10. Ensure patient is centered on receiving equipment prior to deflation.
11. Turn off HoverTech Air Supply and raise bed/stretcher rails. Unbuckle patient strap.
12. When the HoverMatt SPU Split-Leg is deflated, position each leg section as appropriate.



### **Instructions for Use – HoverMatt® Half-Matt\* and HoverMatt® SPU Half-Matt**

1. Patient should preferably be in a supine position.
2. Place HoverMatt Half-Matt underneath patient using a log-rolling technique and secure patient strap loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert hose nozzle into either of two intake valves 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 Half-Matt 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 raise the bed/stretcher rails. Unbuckle patient strap. **PRECAUTION: USE A MINIMUM OF THREE CAREGIVERS DURING AIR-ASSISTED LATERAL PATIENT TRANSFERS WHEN USING THE HOVERMATT HALF-MATT AND HOVERMATT SPU HALF-MATT.**

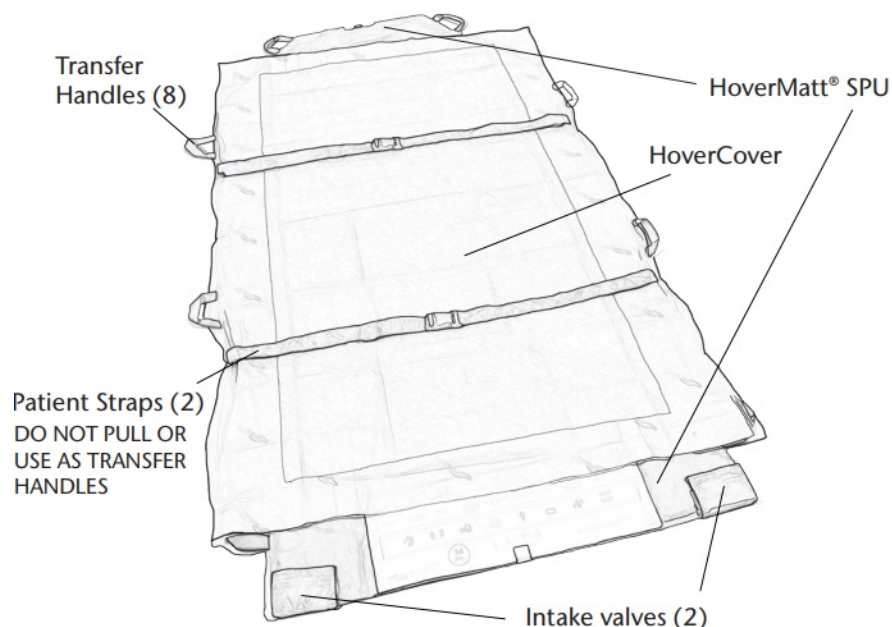




### Instructions for Use – HoverMatt® SPU with HoverCover

1. Patient should preferably be in a supine position.
2. Place HoverMatt SPU with HoverCover underneath patient using a log-rolling technique and secure patient straps loosely.
3. Plug the HoverTech Air Supply power cord into an electrical outlet.
4. Insert the hose nozzle into either of two intake valves 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 raise the bed/stretchers rails. Unbuckle patient straps.

**NOTE:** When using the HoverMatt with patients of size or when more lift is needed, two air supplies may be used for inflation.



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

The HoverMatt may be used to transfer, position, and reposition patients to and from the operating room. A patient may ambulate onto a prepositioned HoverMatt on an operating room (OR) table, or a HoverMatt can be deployed in a typical fashion for patients unable to ambulate and / or who are dependent. The latter would typically occur in a pre-operative holding area where a transfer would happen from a stretcher/bed to an OR table; this may also occur with an inpatient already on top of a HoverMatt. Precautions for US in the Operating Room (OR):

1. Follow steps outlined in this manual (pages 4-7) for lateral patient transfers.
2. Ensure OR Table is locked before initiating a lateral transfer.
3. Ensure edges of HoverMatt are tucked under the OR Table mattress after transfer.

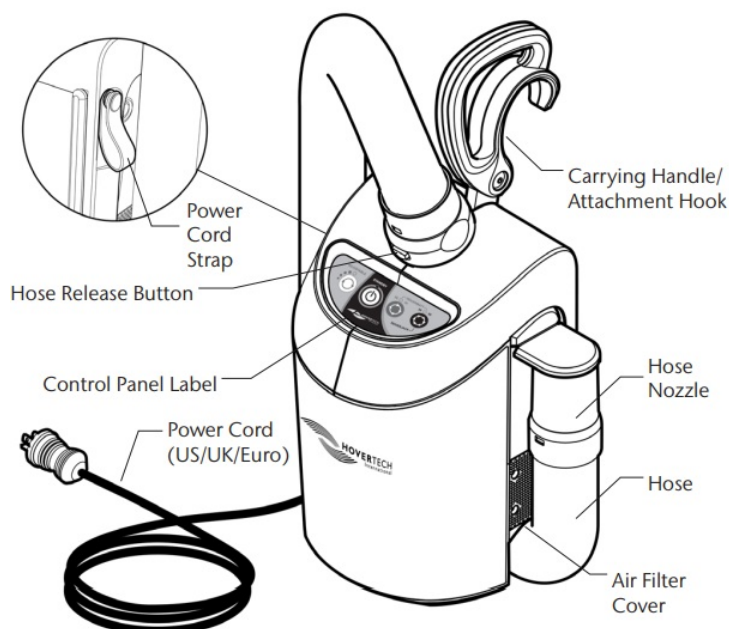
The HoverMatt® T-Burg™ is intended for all surgical procedures where a patient may be placed in Trendelenburg (or Reverse Trendelenburg) up to 40 degrees, including with use of robotics. Patient transfer / repositioning / boosting can be facilitated before and / or after the procedure where the patient's weight might place staff at risk for injury. The HoverMatt T-Burg is designed to securely hold a patient in varying degrees of Trendelenburg, up to 40 degrees. The HoverMatt T-Burg has a 400lb weight limit.

For more information, see User Manual for the HoverMatt T-Burg.



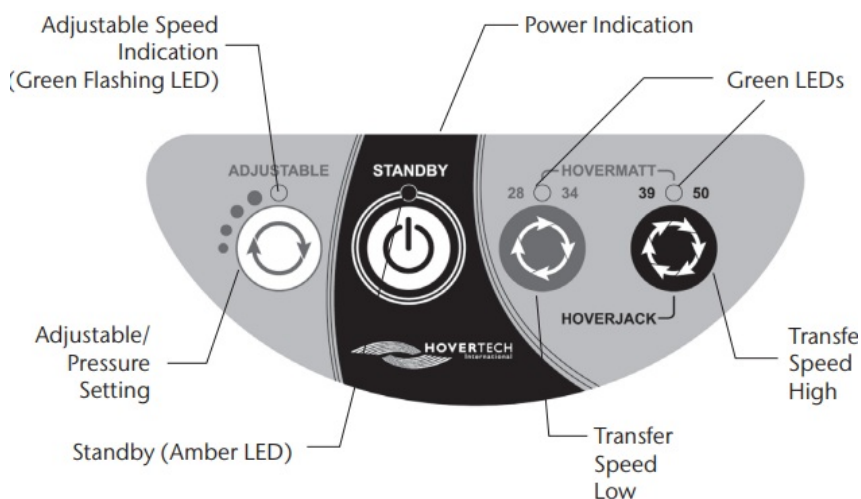
**In the OR – To prevent patient from slipping, always deflate the HoverMatt and secure the patient and HoverMatt to the OR table prior to moving the table into an angled position.**

## Part Identification – HT-Air® 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® Keypad Functions



**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 noise 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.

## Air200G/Air400G Air Supplies

If using HoverTech's Air200G or Air400G Air Supplies, press the grey button on the top of the canister to initiate air flow. Press the button again to stop air flow.

## Product Specifications/Required Accessories

### HOVERMATT® AIR TRANSFER MATTRESS (REUSABLE)

### HOVERMATT® AIR TRANSFER MATTRESS (REUSABLE)

<b>Material:</b>	Heat-Sealed: Nylon twill Double-Coated: Nylon twill with polyurethane coating on patient side
<b>Construction:</b>	RF-Welded
<b>Width:</b>	28" (71 cm), 34" (86 cm), 39" (99 cm), 50" (127 cm)
<b>Length:</b>	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



WEIGHT LIMIT 1200 LBS/ 544KG

### 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 KG

#### 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

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

<b>Material:</b>	Top: Non-woven polypropylene fiber Bottom: Nylon twill
<b>Construction:</b>	Sewn
<b>Width:</b>	34" (86 cm), 39" (99 cm), 50" (127 cm)
<b>Length:</b>	Varies by productHalf-Matt: 45" (114 cm)

#### HoverMatt SPU

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

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

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

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

#### HoverMatt SPU with HoverCover

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

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

#### HoverMatt SPU Split-Leg Matt

**Model #:** HM34SPU-SPLIT-B – 34" W x 70" 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)\*

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



WEIGHT LIMIT 1200 LBS/ 544 KG

### HoverMatt SPU Half-Matt

**Model #:** HM34SPU-HLF-B – 34" 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

### Cleaning and Preventive Maintenance

#### HOVERMATT CLEANING AND MAINTENANCE (REUSABLE ONLY)

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 disinfecting 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 (71° 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 recommends the use of the HoverCover™ Disposable Absorbent

Cover or 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.**

## **Transportation and Storage**

This product does not require any special storage conditions.

## **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 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 for repair (Single-Patient Use HoverMatts should be discarded).

## **INFECTION CONTROL**

HoverTech 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 entry ways. 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 isolation patient, the hospital should employ the same protocols/procedures it utilizes for the bed mattress and/or for linens in that patient room.



When a product reaches the end of its lifetime, it should be separated by material type so that the parts can be recycled or disposed of properly in accordance with local requirements.

## **Returns and Repairs**

All products being returned to HoverTech 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.

### **Returned products should be sent to:**

HoverTech  
Attn: RGA # \_\_\_\_\_  
4482 Innovation Way  
Allentown, PA 18109

For product warranties, visit our website:  
<https://hovermatt.com/standard-product-warranty/>



**HoverTech**

4482 Innovation Way  
Allentown, PA 18109  
[www.HoverMatt.com](http://www.HoverMatt.com)  
[Info@HoverMatt.com](mailto:Info@HoverMatt.com)

These products comply with the standards applicable for Class 1 products in the Medical Device Regulation (EU) 2017/745 on medical devices.



CEpartner4U, ESDOORNLAAN 13, 3951DB MAARN, THE NETHERLANDS.

[www.cepartner4u.com](http://www.cepartner4u.com)



**Etac Ltd.**

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+44 121 561 2222

**Promefa AG**

Kasernenstrasse 3A  
Hartlebury, Kidderminster,  
8184 Bachenbülach, CH  
+41 44 872 97 79

In case an adverse event in relation to the device, incidents should be reported to our authorized representative. Our authorized representative will forward information to the manufacturer.

**For European companies, send returned products to:**



**Attn:** RGA # \_\_\_\_\_  
Kista Science Tower  
SE-164 51 Kista, Sweden

4482 Innovation Way  
Allentown, PA 18109




800.471.2776  
Fax 610.694.9601

[www.HoverMatt.com](http://www.HoverMatt.com)  
[Info@HoverMatt.com](mailto:Info@HoverMatt.com)



## Documents / Resources

	<p><a href="#">HOVERTECH HM28HS HOVERMATT Air Transfer System</a> [pdf] User Manual HM28HS HOVERMATT Air Transfer System, HM28HS, HOVERMATT Air Transfer System, Air Transfer System, Transfer System, System</p>
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## References

- [Medical Device CE marking - CEpartner4U](#)
- HT [HoverTech International | Elevate Your Standard Of Care](#)
- HT [Standard Product Warranty - HoverTech International](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)