

Direct Healthcare Group

Advancing Movement & Health®

Dyna-Form® Static Air HZ

User Manual



Dyna-Form® Static Air HZ

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This manual must be given to the user of the product.

Before using the product, read this manual and save it for future reference!

1. Product Description

Your Dyna-Form® Static Air HZ (Heel Zone) Mattress utilises a high specification polyurethane multi stretch, vapour-permeable, cover which is designed to reduce build-up of heat that is associated with PVC type mattress covers whilst still remaining waterproof. Under the cover, this mattress blends the finest quality combustion modified high resilient foam (CME), together with a series of air cells that ensures this product provides not only the best pressure re-distribution properties, but also gives greater patient comfort and product longevity. Please see the product literature for further details.

1.1 Symbols

Warnings

In this User Manual warnings are indicated by symbols. The warning symbols are accompanied by a heading that indicates the severity of the danger.

WARNING

Indicates a hazardous situation that could result in serious injury or death if it is not avoided.

CAUTION

Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.

IMPORTANT

Indicates a hazardous situation that could result in damage to property if it is not avoided.

1.2 Symbols Guide

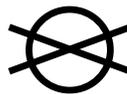
Mattress Symbols



WASH AT 80°



TUMBLE DRY ON LOW



DO NOT DRY CLEAN



REFER TO
USER MANUAL



MEDICAL DEVICES
DIRECTIVE 93/42EEC



DO NOT BLEACH



DO NOT IRON



NO SMOKING



MAXIMUM USER WEIGHT LIMIT
VARIOUS, PLEASE SEE PAGE 7



DO NOT USE
SHARP INSTRUMENTS



DO NOT USE
PHENOL

2. Usage

2.1 Intended Use

Thank you for purchasing a Pressure Redistribution Mattress from Direct Healthcare Group. The Dyna-Form® Static Air HZ Mattress is designed for the prevention of ulcers and is intended to be used in conjunction with an appropriately sized bed frame, as part of an overall pressure ulcer prevention program of care.

⚠ WARNING Which mattress is suitable for your individual use should be decided by your clinician who will also determine the most appropriate pressure ulcer prevention or treatment plan and the relevant nursing procedures.

⚠ WARNING The following user manual should be used in conjunction with the product literature and will give you instructions on how to get the best results when using one of our pressure reducing mattresses, however should you require any additional information please contact our customer help services department on +44 (0) 800 043 0881.

2.2 Using your Mattress

⚠ CAUTION Prior to using the mattress ensure that the bed has no rough edges that may damage the mattress. Place the mattress on the bed with the Direct Healthcare Group logo face up and near the head end of the bed. Ensure the zip is closed and the zip flap is completely covering the zip.

Wipe the mattress down before covering the mattress with a loose-fitting sheet.

⚠ Do not use heavy duvets or tightly “tucked in” blankets which may force additional pressure on the toes leading to damage on the bony prominences of the heels. The usage of additional water proof mattress covers, electric blankets, sheepskins or other similar items which may reduce the effectiveness of the pressure reducing properties of the mattress or indeed lead to an additional increase of body temperature which may cause skin maceration is not advisable. Please seek clinical advice should you wish to use any covering other than the cotton or linen type bed sheet.

Take care when using mechanical items such as bridging boards, PAT slides or other patient transfer aids that damage does not occur to the mattress cover due to sharp or damaged edges.

⚠ WARNING The maximum user weight of your mattress is available within the product literature.

⚠ WARNING The printed side of the mattress cover must always be facing upward. Ensure that the Heel Zone area (identified by a pictorial picture of two feet on the mattress cover) is located at the bottom of the bed where the patients heels will be placed. Make sure that the distance between the surface of the mattress and the top of the side rail should be at least 220 mm.

2.3 Patient Repositioning

⚠ IMPORTANT Your Dyna-Form® Pressure Redistributing Mattress will provide not only the best pressure re-distribution properties but also give greater patient comfort and product longevity. However to prevent the build-up of pressure which may lead to tissue damage and potential ulcer formation, it is important that the patient either repositions themselves, or is repositioned on a regular basis. This should be based on the clinical judgement of a qualified healthcare professional that will provide you with a suitable turning regime.

3. Cleaning & Care

The way in which the mattress is cleaned depends upon the nature of the contamination and the susceptibility of the patient. Cleaning should take place before and after use, and between each patient.

3.1 Light Soiling

⚠ IMPORTANT In the absence of gross contamination or unusual risk, the removal of dirt and spillages with clean, warm water, neutral detergent and manual dexterity should be sufficient. However if required the cover can be wiped down with a 0.1% Hypo Chlorite Solution (1,000ppm). Ensure that the cover is rinsed with clean water using a single use non-abrasive cloth, and thoroughly dried. Ensure adequate ventilation.

3.2 Heavy Soiling

⚠ IMPORTANT In cases of gross contamination the mattress cover should be cleaned first with detergent and water then with a diluted solution of 1% Hypo Chlorite (10,000ppm). Rinse well with clean water and a damp single use non-abrasive cloth. Ensure adequate ventilation.

3.3 Drying

Disposable gloves and aprons should be worn. If splashing could occur eye/face protection should also be worn. On removal of gloves, hands should be washed. Ensure mattress cover is thoroughly dried before remaking the bed. Damp humid environments have been shown to lead to the continuation of bacterial growth.

Within the community setting, it may be desirable to launder the cover after removable from the foam core. In such cases the cover should be laundered at no more than 80 degrees C. To avoid shrinkage of the cover only tumble dry on a low heat setting not exceeding 40 degrees C and not for longer than 10 minutes. Covers must be thoroughly dried before re-fitting to the mattress.

3.4 Inspection

⚠ WARNING Inspect the inner and outer surfaces of covers and their zip fasteners regularly for signs of damage. If the cover is stained, soiled or torn, the foam core should be examined. Damaged/soiled covers and mattresses should be reported to the ward/department manager. If the core of the mattress is wet or badly stained, the mattress should be withdrawn from service. The Company suggests that bed frame should also be cleaned in between each change of patient.

4. Maintenance

4.1 Audit

⚠ CAUTION It is recommended that a minimum of a 6 monthly or annual audit of all mattresses within a ward/department should be adhered to. In the community setting, an audit should also be considered between each change of patient.

Please refer to documents Foam Mattresses: Prevention of Cross Infection MDA SN 1999 (31)), Medical Device Alert: All types of bed mattresses (MDA/2010/002) and also BHTA guidance on the care, cleaning and inspection of healthcare mattresses (BHTA Protect, Rinse and Dry). Details on how to audit your mattress are available from Direct Healthcare Group.

5. After Use

5.1 Storage

⚠ CAUTION It is recommended that 2 people lift/carry mattresses. Mattress can become damaged when stored incorrectly. It is advisable to store your mattress off the floor in a clean dry environment. Do not store your mattress near heating devices such as electrical fires or radiators as the excessive exposure to heat may weaken the cell material. Wherever possible, mattresses should be stored within a protective cover.

5.2 Transport

⚠ CAUTION Take care when handling mattresses to ensure no damage to the cover. It is recommended that two people lift/carry mattresses. Avoid contact with sharp objects and abrasive surfaces etc. Do not drag mattresses.

5.3 Re-Use

⚠ IMPORTANT A cleaning record must be kept as part of the cleaning system. The product is suitable for repeated use. The number of times it can be used depends on how often and in which way the product is used. Before re-use, clean the product thoroughly in accordance with the guidelines.

5.4 Disposal

 **IMPORTANT** The disposal and recycling of used devices and packaging must comply with the applicable legal regulation in each country.

6. Quality & Testing

6.1 Service Life

We estimate a life expectancy of eight years for these products, provided they are used in strict accordance with the intended use as set out in this document and all maintenance and service requirements are met.

The estimated life expectancy can be exceeded if the product is carefully used and properly maintained, and provided technical and scientific advances do not result in technical limitations. The life expectancy can also be considerably reduced by extreme or incorrect usage. The fact that we estimate a life expectancy for these products does not constitute an additional warranty.

6.2 Product Warranty Periods

Please refer to the product literature for your mattresses warranty period. The warranty of your Dyna-Form® Mattress is valid from time of shipping. If a defect or fault is discovered please contact Direct Healthcare Group on +44 (0) 800 043 0881 who will arrange for inspection of the mattress. No responsibility will be accepted for damage caused by misuse or non-observance of the instructions set out in this user guide. Full warranty terms and conditions are available on request.

6.3 Fire Testing

Direct Healthcare products are independently fire tested. Covers adhere to BS 7175 crib 5.

Cushions adhere to BS 7176 crib 5. Mattresses adhere to BS 7177 crib 5. (adherence to crib 7 where advised in product literature).

6.4 Quality Standards

Quality is fundamental to the company's operation, working within the disciplines of BS EN ISO 9001:2008 and ISO 13485:2012. All Direct Healthcare Mattress products feature the CE mark, in compliance with the Medical Device Directive.

Every effort has been made to ensure that the contents of this publication are fully up-to-date at the time of going to print. As part of our continuous improvement process, Direct Healthcare Group reserves the right to modify existing models at any time.

7. Technical Data

Product Code	MAT0510001
Risk Category	Very High Risk
Weight Limit	No minimum weight limit. Product evaluated to 40 stone / 254kg capacity
Warranty	5 Years
Dimensions	(Length) 198cm x (Width) 88cm x (Height) 15cm – Variable Sizes Available
Product Weight	10kg
Fire Retardancy	BS7177; 2008 (Crib 5 Composite)
Colour	Red
Hypochlorite Solution Compatible	1,000 ppm diluted or 0.1% (or to be used in conjunction with local infection control guidelines)

8. Installation & Troubleshooting

8.1 Installation

1. Prior to placing the mattress on to the bed, check the bed has no rough or sharp edges which may cause damage to the cover.
2. Place the mattress on to the bed ensuring that the Direct Healthcare Group logo and product information including symbols printed on the cover are face up and that the foot section is orientated to the foot of the bed. This will ensure that the internal components of the mattress are not shaken about too much prior to carrying out installation checks.
3. With the mattress placed on the bed check the cover to ensure that there is no visible damage which may, at a later point, cause ingress.

8.2 Heel Zone Pre-Checks

1. Unzip the cover and pull back to show the internal components of the mattress.
2. Check to ensure that all Heel Zone cells are present and not twisted. If cells have been twisted in anyway during transportation, then the cells will need to be repositioned, as per figure 1.
3. Lift up the right-hand side of the cells (when facing the mattress at the foot section) and check to ensure that all pipe work is connected and that the black and white one-way valves are in the correct orientation (white side of valve closest to you when facing the mattress at the foot section), as per figure 2.
4. When placing the cells back in to the mattress ensure that the tubing sits within the trough cut into the base of the mattress core.



Figure 1



Figure 2

8.3 Foam Cell Pre-Checks

1. Lift up the left-hand side foam cells (when facing the mattress at the foot section) and check to ensure that all pipe work is connected and that the black and white one-way valves is correctly attached with the black side of the valve facing the foot of the mattress, as per figure 3.
2. When placing the cells back in to the mattress ensure that the tubing sits within the trough cut into the base of the mattress core.



Figure 3

8.4 System Functionality

1. Put pressure on to the Heel Zone cells to slightly deflate each.
2. Now place pressure on to the foam-covered cells, air will now be expelled from the upper section in to the Heel Zone section, showing the mattress to be operational.
3. Place the cover back and close the zip, ensuring that the zip flap is placed down covering the zip.
4. The mattress is now ready for use.

8.5 Troubleshooting

1. Should at any time, the system not operate correctly, repeat the above step also looking for obvious signs of damage or wear.
2. If there are no obvious signs of damage or wear and the system still does not operate correctly, please do not use the mattress. Instead, contact Direct Healthcare Group regarding any systems which fail to operate correctly.

Direct Healthcare Group

Advancing Movement & Health®

Intelligent Pressure Care

Specialist Seating

Rental & Service Solutions

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