

drive

 DeVilbiss®
HEALTHCARE

Pressure Care Mattress

Instructions for use

Introduction

Drive DeVilbiss Healthcare Ltd. manufacture beds, pressure area care equipment and hospital furniture at their UK manufacturing plant in Halifax, West Yorkshire.

This state of the art manufacturing plant uses the latest technology to cater for bespoke and high volume production, to meet the needs of the healthcare environment.

Research and Development is undertaken following strict guidelines to ensure all products are fit for purpose and comply to the relevant product and industry standards.

Drive DeVilbiss Healthcare Ltd. meet the requirements of EN ISO 9001 and EN ISO 14001.



Drive DeVilbiss exists to enhance the quality of life of the people we touch

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1. Contact Information

Thank you for purchasing this product. This user manual should be read carefully before using the mattress. Please ensure that you understand all instructions, if you have any questions concerning the operation or maintenance of the mattress please contact your local distributor or Drive DeVilbiss Healthcare Ltd. This user manual is intended to be read by professional users only, not lay persons / patients.

Contact Information

For any service, warranty, sales or customer service information on this product please contact your local distributor or if in doubt contact Drive DeVilbiss Healthcare Ltd. at the following address.

Drive DeVilbiss Healthcare Ltd.
Sidhil Business Park,
Holmfield, Halifax,
West Yorkshire,
HX2 9TN,
United Kingdom.

Tel: +44 (0) 845 0600 333

Fax: +44 (0) 845 0600 334

info@drivedevilbiss.co.uk

www.drivedevilbiss.co.uk

Please reference the product name and serial number.

For Service & Support outside the UK & Northern Ireland please contact the local distribution company from where this equipment was purchased. Failure to do so may result in the manufacturer's warranty becoming void.

2. Fire Warning

2.1 Fire Warning

In order to reduce the risk of fire:

- DO NOT SMOKE - Smoking will contaminate the product and is NOT permitted around or on the mattress. This is a common cause of fatal fires. A cigarette could burn a hole in the mattress surface and cause damage to the mattress. Patient clothing, bed sheets and other items, may be combustible and could catch fire. Failure to observe this warning could result in a severe fire, property damage, physical injury or death.
- Keep mattress away from sources of heat and naked flames - close proximity to flames and heat sources could damage the mattress cover and / or could cause the cover / bedding to catch fire.
- DO NOT — use candles on or around the mattress.
- DO — keep hot equipment off and away from the mattress surface, e.g. hair dryer, curling tong, etc.
- DO — keep heaters away from the mattress.
- Follow all manufacturers' instructions and warnings.
- It is advised that a full fire risk assessment is carried out prior to using this equipment.
- In case of fire, exit and call the emergency services.
- The use of other materials in combination with the mattress can degrade the fire performance.
- Drive DeVilbiss Healthcare recommends the use of fire-retardant bedding, where available, when used in combination with a DDH mattress.

2.2 Fire Testing

Drive DeVilbiss Healthcare Ltd. products are independently tested. Further information can be provided on request.

All mattresses within the Drive DeVilbiss Healthcare Ltd. range have been batch tested in compliance with BS7177:2008+A1:2011 – Medium Hazard (Ignition Source 5) to High Hazard (Ignition Source 7 – where appropriate).

Familiarise yourself with the location of the fire resistance label, if not external it will be found on the inside of the cover, accessible via the zip. The fire resistance label will identify if the mattress has been tested to medium or high hazard.

3. Symbol Definition



Attention, instructions to be read



Product code



Date of Manufacture



Manufacturer



Keep out of direct sunlight



Maximum Washing Temperature



Tumble dry on low heat - do not exceed 40 ° C



Drip dry



Do not dry clean



Do not iron



Resistant to ignition source: match flame equivalent



Resistant to ignition source: smouldering cigarette equivalent



Batch code



Resistant to ignition source



Medical device



Maximum user weight



Zip location



Safe working load



Cautions in these instructions for use highlight potential hazards that if disregarded could lead to equipment damage or failure.



Warnings in these instructions for use highlight potential hazards that if disregarded could lead to injury or death.

4. Product Information

4.1 Product Information

Contact your distributor if a datasheet or further information is required to identify the specific properties of your mattress.

4.2 Environment

Your pressure area care mattress is intended for use in the following environments:

- A domestic area.
- A long-term care area where medical supervision is required and monitoring is provided if necessary (e.g. nursing homes, rehabilitation facilities, geriatric facilities).
- A hospital where intensive/acute care is provided and medical supervision is required and monitoring provided.

Before use, a comprehensive risk assessment should be carried out to ensure the mattress is suitable for the patient, bedframe and care environment.

4.3 Intended Use

The intended use of the mattress is to support the weight of the patient whilst sleeping or resting, and to assist the user with pressure redistribution as part of an overall plan of care.

4.4 Indications

To assist as part of an overall plan of care when reactive load distribution through non-mechanical means is required.

4.5 Contraindications

Exceeding the maximum patient weight of the mattress is a contraindication.

4.6 Patient Population & Weight

The mattress has no specific patient population. Please refer to the individual bed instruction manual for guidance on patient population.

The maximum patient weight can be located on the top cover as well as the information label located within the cover. The minimum user weight for this mattress will depend on a combination of the bed surface the mattress is used on, the physical size of the user and the treatment program in place for the user. A risk assessment must be conducted by clinical staff to ascertain that the combinations of products are suitable for all users, but especially for low weight & bariatric users.

4.7 Storage & Operational Conditions

For ease of storage, mattresses should be stacked on top of one another or stored upright in a mattress storage rack. To prevent damage during storage:

- Ensure mattress is cleaned before storing.
- Store in a polythene cover/bag.
- Do not store objects such as side rails or bed ends on top of the mattress.
- As applicable, mattresses may be supplied compressed and rolled.

For optimal performance Drive DeVilbiss Healthcare recommend that the mattress is not exposed to temperatures exceeding 40°C and/or high humidity environments.



Covers may be hot to touch if exposed to direct sunlight or extreme room temperatures.

4.8 Mattress Disposal

When the mattress has come to the end of its useful life, contact your provider or Drive DeVilbiss Healthcare Ltd. to arrange for collection, or follow local recycling and disposal policies.

Any components should be recovered and reused / recycled where possible. The mattress cover is to be disposed in general municipal waste. The mattress foam and the plastic polyethylene bag supplied with the mattress can both be recycled at recycling centres that offer suitable PU foam and plastic recycling programs.



The mattress is to be decontaminated before disposal to avoid risk of cross contamination.

4.9 Biocides

Foam mattresses contain a biocide anti-fungal agent to control microbial deterioration. The active ingredient is Folpet (CAS number 133-07-3).

The active ingredient is fully encapsulated within the polymer coating. There are no special handling requirements.

Foam mattress products are latex free.

5. General Information

5.1 General Instructions

- Remove all packaging materials and allow the mattress or overlay to lie flat at ambient temperature for a minimum of 2 hours before use. This will allow the foam to condition.
- **Please note**, compressed and rolled mattresses must be left for a minimum period of 24 hours before use. It is advised to open the top cover to expose the internal foam, this will allow the mattress to fully aerate. Mattresses which have not been compressed and rolled can be used as per above.
- Assess the mattress for any damage which may have been caused during transit.
- Memory foam (visco-elastic) mattresses are heat sensitive. In rooms where the temperature is below 18°C, the mattresses may initially feel firmer than expected. The mattress will adjust when absorbing body heat.
- The mattress may have a slight odour when first unpacked; this is normal and will not cause harm. This odour will dissipate over the course of a few days.
- Ensure the mattress is suitable for the product combination (bed platform, side rails etc.).
- If the mattress is a full replacement mattress, remove all existing mattresses and place the new mattress directly on to the bed frame. If this is an overlay mattress, place this directly on top of the existing mattress.
- Ensure the mattress is suitable for the intended patient and maximum patient weight.
- To ensure the most appropriate pressure prevention, it is important the patient can either reposition themselves or are repositioned on a regular basis; please follow local policies, recognised national or international guidance.
- With the exception of bed sheets, avoid using additional covers or padding between the mattress support surface and the patient as this may affect the pressure redistributing qualities.
- If side rails are used, specific attention should be paid to the height of the side rails when raised and lowered, in relation to the mattress surface, as well as the length of the side rails, any gaps within the side rails, and any gaps between the side rails and mattress edge.

- Refer to Drive DeVilbiss Healthcare bed instruction manuals for bed platform, side rail and mattress compatibility.



- To ensure the most appropriate pressure prevention, it is important the patient can either reposition themselves or are repositioned on a regular basis; please follow local policy.
- Consideration is to be taken when profiling sections of a bed frame as this may cause shear/ frictional forces on the patients' skin.
- Incompatible support platforms (e.g. a bed frame) can create stability / safety hazards.
- If the mattress is located in an environment which is at an elevated temperature, the risk of developing a pressure-related injury may increase due to a potential moisture build-up between the mattress and patient - Regular skin checks must be carried out.
- Any serious incident that occurs in relation to the device should be reported to the manufacturer immediately.

5.2 Damage Prevention

Avoid puncturing the cover as this will allow fluid ingress and ultimately contaminate the foam core. To prevent damage to the cover:

- Do not place sharp objects such as hypodermic needles or scalpels on to the mattress.
- Avoid wearing protruding jewellery such as rings with large stones or watches.
- Take extra care when using medical devices such as drip stands, side rails or transfer boards.

5.3 Transporting

Where possible, it is recommended the transport of mattresses should be carried out on a flat based trolley or mattress trolley. Do not drag or pull the mattress by its cover of foam core. Please follow local moving and handling policies and guidelines when handling a mattress. It is recommended that two people manoeuvre the mattress.

The mattress is not to be used for transporting patients from one bed to another.

6. Mattress Inspection

6.1 General Mattress Inspection

Mattresses should be assessed on a regular basis to ensure they are fit for purpose, clinically effective and pose no risk of cross infection to the patient or care provider. Mattresses deemed as replacements will have a minimum depth of no lower than 127mm (5").

Drive DeVilbiss Healthcare Ltd. recommend a thorough inspection of both the interior and exterior of the mattress is carried out on a weekly basis, and prior to a new patient being placed on to the mattress. Visual checks should be carried out daily for signs of damage to reduce the risk of cross infections.

How to assess the mattress:

- Ensure the cover is suitable for the type of mattress in use.
- Ensure screen print on top cover is in good condition and readable.
- Check the foam core for any signs of fluid ingress/staining.
- Check for any signs of tearing and/or punctures.
- Check seams for signs of splitting.
- Check the zips for any signs of damage.
- Unzip the cover and assess the white inner substrate for any signs of ingress or staining.
- Ensure the top, base and all four sides of the mattress are assessed.

If the mattress artwork indicates a turn cycle, regular turning of the mattress is advised to help maintain foam — see the mattress' top cover artwork for the applicable number of turns.



If there are any signs of contamination or damage to the foam or cover, the mattress should be withdrawn from use immediately and a replacement part or product sourced. Failure to do so could put patients and carers at risk.

6.2 Mount Vernon Test

The Mount Vernon test is to be performed on a monthly basis or when there are doubts around the condition of the foam. The test is performed to ensure the foam continues to deliver adequate support and protection for the patient.

- Test the full mattress, including the cover.
- Adjust the bed platform height so the top of the mattress is level with tester's trochanter (hip bone).
- Standing at the side of the bed, link both hands to form a fist (fig 1), for visco elastic foam use two flat crossed hands (fig 2). Keep elbows straight, lean forward and push your fists/flat of hands into the mattress.

Do this on all 7 points of the mattress as marked in Fig 3.



Fig 1



Fig 2

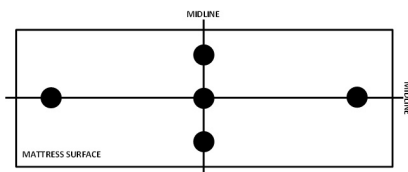


Fig 3

- If the bed base can be felt at any point during the test then the mattress is deemed to have 'bottomed out' and should be removed from use immediately. Failure to do so may pose significant risk of pressure damage to the patient.

7. Cleaning and Decontamination



- Personal protective equipment must be worn during the entire cleaning process to prevent the risk of infection.
- Regular cleaning and disinfection of the mattress will help to prevent the risk of infection to the occupant and/or carer.
- Prior to transferring the mattress to another user, ensure it has been cleaned and disinfected using the method as detailed to help prevent the risk of cross contamination.
- Deviating from the specified cleaning and decontamination instructions could cause a biological hazard and adversely affect the life and efficacy of the product.

It is critical to take note of the orientation of the internal foam in relation to the mattress cover before removing the cover. This is vital for the correct reassembly of the mattress after cleaning.

7.1 Inspection

Before attempting to clean the mattress, covers are to be checked for physical signs of damage that may lead to strike-through (ingress of fluid through cover). This is achieved by unzipping the top cover and looking for signs of staining to the white underside and to the foam and inspecting the foam for dampness.



- Replace the cover if strike-through is evident – Risk of cross infection.
- Replace the cover if there are any signs of damage (tearing, punctures, abrasion, damaged seams etc.)
- If the foam core has been contaminated in any way, the mattress must be removed from use immediately – Risk of cross infection.

7.2 General Cleaning

After each patient use the mattress must be cleaned. Drive DeVilbiss Healthcare Ltd.

recommend the following cleaning instructions for mattress covers only:

- Using a clean, moistened, single-use wipe, clean the mattress with mild detergent in warm water (40°C).
- Rinse with cold, clean water and a clean cloth.
- Dry off with paper towels — always ensure the cleaned surfaces are allowed to dry fully before putting back into use.
- Ensure the internal foam is orientated correctly to the mattress cover when reassembling.



Do not steam clean or use in a autoclave.

7.3 Decontamination

If the mattress cover is heavily soiled or has been exposed to bodily fluids, follow your organisation's decontamination procedure.

Alternatively:

- Mop up any fluid with paper towels.
- Rinse the cover using cold, clean water.
- Wipe down with a 0.1% chlorine solution (1,000ppm) in cold water — where necessary, a 1% chlorine solution (10,000ppm) can be used instead.
- Rinse down with cold, clean water using a clean cloth.
- Dry off with paper towels — always ensure the cleaned surfaces are allowed to dry fully before putting back into use.
- Ensure the internal foam is orientated correctly to the mattress cover when reassembling.



- Frequent or prolonged exposure to higher concentration disinfectant solutions may prematurely age the fabric cover of the mattress.
- Do not use alcohol, biological or phenol based cleaning solutions.
- Do not use any abrasive compounds or cleaning pads.

7. Cleaning and Decontamination

7.4 Laundering

Decontamination of the mattress cover may be achieved by laundering; launder as per your organisation's decontamination policy.

Alternatively:

- Remove mattress cover.
- Drive DeVilbiss Healthcare recommends following the NHS Health Technical Memorandum HTM 01–04*: Wash at 65°C for not less than 10 minutes or 71°C for not less than 3 minutes.
- Maximum washing temperature is 95°C.
- Heavily soiled items should also have a pre-wash/sluice cycle.
- Allow covers to fully dry before use.

(* Refer to the Department of Health document HTM 01-04 for full details)

7.5 Drying

To increase the longevity of the covers, it is recommended the covers are drip dried however, mattress covers can be tumble dried on a low heat setting for 90 minutes. Drying temperature must not exceed 40°C.



- Exceeding this temperature could cause significant damage to the mattress cover.
- Covers must be completely dried before refitting to the mattress inners.

8. Specification

8.1 Risk Factors

Drive DeVilbiss Healthcare follow the NICE Clinical Guidance (CG179) when indicating product risk factors.

At Risk

Patients considered to be at risk of developing a pressure injury are those who, after assessment using clinical judgement and / or a validated risk assessment tool (these include The Braden Scale, The Waterlow Score or The Norton Risk-Assessment), are considered to be at risk of developing a pressure injury.

At High Risk

Patients considered to be at high risk of developing a pressure injury usually have multiple risk factors (for example, significantly limited mobility, nutritional deficiency, inability to reposition themselves, significant cognitive impairment) identified during risk assessment with or without a validated risk assessment tool.

The risk rating of Drive DeVilbiss Healthcare mattresses can be found on the product ID label inside the mattress covers.

For more information visit:
www.nice.org.co.uk/guidance

8.2 Technical Information

Technical information including the; mattress dimensions, maximum patient weight, product weight, risk factor and more, can be found on the product labels inside the mattress covers. This information can be used as a guide to aid in the selection of compatible support platforms.

All Drive DeVilbiss Healthcare foam mattresses are Class 1 medical devices.

For the full Drive DeVilbiss Healthcare Ltd. range of mattresses and products, please visit:

www.drivedevilbiss.co.uk



Ensure overlay mattresses are applied over the top of a compatible underlay mattress. Overlay mattresses must not be used on their own – risk of mattress bottoming out.

9. Warranty

Warranty

The range of Drive DeVilbiss Healthcare Ltd. foam mattresses are covered by a comprehensive manufacturer's warranty covering manufacturing defects arising from poor workmanship, materials or assembly. The warranty starts from the date the products are delivered and remains in place for the identified warranty period specific to the product you have purchased; please check your specific products information label to identify the associated warranty period.

Drive DeVilbiss Healthcare Ltd. maximum liability is to replace the product free of charge should the product fail under warranty, provided that written details of the said defect are sent to Drive DeVilbiss Healthcare Ltd. and proof of purchase is provided. Drive DeVilbiss Healthcare Ltd. reserves the right to request the return of the product for inspection. Drive DeVilbiss Healthcare Ltd. do not accept any claims for consequential losses resulting from any failure of a product under warranty.

Warranty will not apply if:

- The product has been used other than for its specified use,
- Cleaning and decontamination has not been carried out in line with the manufacturers recommendations,
- The product has not been stored correctly,
- Alterations to the mattress have been made,
- Notice of defects have not been highlighted to supplier within the warranty time period,
- The product has suffered malicious damage,
- The product has been affected by strikethrough,
- Due to expected wear and tear.

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ORIGINAL INSTRUCTIONS



Drive DeVilbiss Healthcare Ltd.,
Sidhil Business Park, Holmfild,
Halifax, West Yorkshire, HX2 9TN,
United Kingdom

Tel: + 44 (0) 845 0600 333

Fax: + 44 (0) 845 0600 334

Email: info@drivedevilbiss.co.uk

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