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APEX Domus 2s

APEX Medical Domus 2s Alternating Pressure Mattress System User Manual

Model: Domus 2s

1. Introduction

The APEX Medical Domus 2s is a 5-inch alternating pressure mattress overlay system designed for the prevention and treatment of pressure ulcers (bedsores). This system provides continuous support and comfort by evenly redistributing weight, thereby relieving pressure points. It is an ideal solution for individuals with limited mobility who require extended periods of bed rest.

The system utilizes an electric pump to inflate and deflate air cells in an alternating pattern, ensuring effective pressure redistribution. This manual provides essential information for the safe and effective setup, operation, and maintenance of your Domus 2s system.

2. Safety Information

- Always consult a healthcare professional for proper patient assessment and guidance on using pressure redistribution systems.
- Ensure the mattress system is placed on a stable and appropriate bed frame.
- Do not use the system near open flames or heat sources.
- Keep the pump and power cord away from water or other liquids.
- Regularly inspect the mattress and pump for any signs of damage. Discontinue use and contact support if damage is found.
- The maximum weight capacity for this system is 260 pounds (118 kg). Do not exceed this limit.
- Ensure the power supply matches the specified voltage (120V, 60Hz).

3. Product Overview

The Domus 2s system consists of a 5-inch overlay mattress and an electric pump. Key features include:

- **Alternating Pressure Redistribution:** The mattress cells periodically inflate and deflate to shift pressure points, aiding in the prevention and treatment of pressure ulcers.
- **Heel Slope Design:** Specifically designed to relieve pressure on the heels, a common area for pressure injury.
- **Anti-Sliding Extension Flaps:** Integrated flaps at both ends of the mattress help secure it firmly to the bed.
- **Adjustable Hangers:** The pump features adjustable hangers for convenient attachment to the bed-end panel.

- **Weight Indicator Reference:** A dial on the pump allows for easy adjustment of air pressure based on patient weight.



Figure 1: Illustration of the alternating pressure redistribution system, showing how air cells inflate and deflate in a cycle to prevent pressure injury.



Figure 2: Detail of the mattress showing the anti-sliding extension flaps and the integrated heel slope design for pressure relief.



Figure 3: The electric pump unit, highlighting its adjustable hangers for bed attachment and the weight indicator dial for pressure adjustment.



Figure 4: Visual representation of the mattress and pump dimensions for proper fit and placement.

4. Setup Instructions

Follow these steps to set up your APEX Medical Domus 2s system:

1. **Place the Overlay Pad:** Lay the Domus 2s overlay pad flat on the existing mattress of the bed. Ensure it is centered and aligned correctly.
2. **Secure Extension Flaps:** Tuck the anti-sliding extension flaps, located at both the head and foot ends of the overlay pad, securely under the existing mattress. This prevents the pad from shifting during use.
3. **Attach the Pump:** Adjust the hooks on the back of the electric pump to the best direction for hanging. Hang the pump onto the bed-end panel or footboard, ensuring it is stable and secure.
4. **Connect Air Tubes:** Connect the air tubes from the mattress pad to the corresponding ports on the pump. Ensure a snug and secure connection to prevent air leakage.
5. **Connect Power:** Plug the pump's power cord into a standard 120V, 60Hz electrical outlet.
6. **Initial Inflation:** Turn ON the power switch on the pump. For initial inflation, set the airflow volume dial to the

maximum setting. The pad will take approximately 30-40 minutes to be fully inflated.

7. **Adjust Airflow:** Once fully inflated, adjust the airflow volume dial according to the patient's body weight. Refer to the weight indicator reference on the pump for appropriate settings.

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Video 1: Official installation and operation guide for the Domus 2s Alternating Pressure Redistribution System. This video demonstrates how to set up the mattress pad, connect the pump, and adjust settings for use.

5. Operating Instructions

Once the Domus 2s system is set up and fully inflated, it will begin its alternating pressure cycle. The pump operates with an average 10-minute cycle time, ensuring continuous pressure redistribution.

- **Power On/Off:** Use the power switch on the pump to turn the system on or off.
- **Pressure Adjustment:** The pressure dial on the pump allows you to customize the firmness of the mattress. Adjust the dial based on the patient's comfort and weight, using the integrated weight indicator as a reference.
- **Quiet Operation:** The pump is designed for quiet operation, with a noise level of ≤35dB(A), to ensure a peaceful environment for the patient.

6. Maintenance

Proper maintenance ensures the longevity and effective operation of your Domus 2s system.

- **Cleaning the Mattress:** The mattress is made of medical-grade PVC and can be cleaned by wiping with a damp cloth and mild disinfectant. Ensure the mattress is completely dry before use. The product care instructions indicate it is machine washable, but for the overlay pad, spot cleaning or gentle hand washing is generally recommended for longevity.
- **Cleaning the Pump:** Wipe the exterior of the pump with a damp cloth. Do not immerse the pump in water or use abrasive cleaners.
- **Storage:** If storing the system, ensure the mattress is deflated, clean, and dry. Store in a cool, dry place away from direct sunlight.
- **Regular Inspection:** Periodically check all connections, tubes, and the mattress surface for any signs of wear, punctures, or damage.

7. Troubleshooting

If you encounter issues with your Domus 2s system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Mattress not inflating or inflating slowly	Power not connected; Power switch off; Air tubes disconnected or kinked; Leak in mattress or tubes; Pump malfunction.	Ensure power cord is securely plugged in; Turn power switch ON; Check all tube connections for security and kinks; Inspect mattress and tubes for visible damage; Contact support if pump malfunction is suspected.
Mattress too firm or too soft	Pressure dial set incorrectly for patient weight.	Adjust the pressure dial on the pump according to the patient's body weight and comfort preference.

Problem	Possible Cause	Solution
Pump is noisy	Normal operation; Pump not placed on a stable surface.	A low hum is normal. Ensure the pump is securely hung or placed on a flat, stable surface to minimize vibration. If noise is excessive, contact support.

If the problem persists after attempting these solutions, please contact APEX Medical customer support.

8. Specifications

- **Model:** Domus 2s
- **Mattress Dimensions (L x W x H):** 78 inches x 33 inches x 5 inches (198 cm x 84 cm x 12.7 cm)
- **Anti-Sliding Extension Flaps:** 11 inches (28 cm) on both head and foot sides
- **Weight Capacity:** 260 pounds (118 kg)
- **Material:** Medical Grade PVC
- **Pump Supply Voltage:** 120V, 60Hz
- **Pump Noise Level:** ≤35dB(A)
- **Alternating Cycle Time:** Approximately 10 minutes
- **Special Features:** Alternating Pressure, Customizable Pressure, Electric Pump, Heel Slope

9. Warranty and Support

The APEX Medical Domus 2s system comes with a **1-year guarantee** on both the mattress and the pump, covering manufacturing defects under normal use.

For warranty claims, technical assistance, or any questions regarding your Domus 2s system, please contact your supplier or authorized APEX Medical distributor. Ensure you have your purchase receipt and product model information available when contacting support.

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