

APEX Domus 4 (QA-00050/D4)

APEX Domus 4 Anti-Decubitus Mattress User Manual

Model: Domus 4 (QA-00050/D4)

1. INTRODUCTION

The APEX Domus 4 Anti-Decubitus Mattress with Compressor is designed to provide effective pressure redistribution and relief for patients at high risk of developing pressure ulcers, or for the treatment of existing pressure ulcers up to Grade IV. This system aims to improve patient comfort and quality of life by preventing and managing skin breakdown associated with prolonged bed rest.

This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your Domus 4 system. Please read it thoroughly before use to ensure safe and effective operation.

2. IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when using electrical products, especially when children are present. To reduce the risk of electrocution, burns, fire, or injury to persons:

- Read all instructions before using the mattress system.
- Do not operate the compressor if it has a damaged cord or plug, if it is not working properly, or if it has been dropped or damaged.
- Keep the cord away from heated surfaces.
- Do not block air openings or place on a soft surface where openings may be blocked.
- Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.
- Ensure the mattress is placed on a stable, flat bed frame.
- Regularly inspect the mattress and compressor for any signs of wear or damage.
- Consult a healthcare professional for appropriate patient positioning and care.

3. SYSTEM COMPONENTS

The APEX Domus 4 system consists of the following main components:

- **Alternating Pressure Mattress:** Composed of individual air cells that inflate and deflate in an alternating pattern to redistribute pressure.

- **Compressor Unit:** The pump that inflates and deflates the air cells, controlling the pressure and cycle time.
- **Antimicrobial Cover:** A protective, vapor-permeable, water-resistant, and flame-retardant cover for the mattress.
- **Air Hoses:** Connect the compressor to the mattress.
- **CPR Valve:** A quick-release valve for rapid deflation in emergency situations.
- **Transport Plug:** Used to maintain air in the mattress during patient transport or power outages.



Figure 3.1: Overview of the APEX Domus 4 Anti-Decubitus Mattress System, showing the mattress on a bed frame with the compressor unit attached.



Figure 3.2: The APEX Domus 4 compressor unit, featuring control panel and power input.



Figure 3.3: The APEX Domus 4 mattress, showcasing its individual air cells designed for pressure redistribution.



Figure 3.4: Close-up of the red CPR valve on the mattress, used for rapid deflation in emergencies.

4. SETUP INSTRUCTIONS

Follow these steps to set up your APEX Domus 4 Anti-Decubitus Mattress system:

1. **Prepare the Bed Frame:** Place the mattress on a standard bed frame. Ensure the bed frame is clean and free of sharp objects that could damage the mattress.
2. **Unroll the Mattress:** Carefully unroll the mattress on the bed frame with the air cell side facing up. Ensure the air hoses are positioned towards the foot end of the bed.
3. **Secure the Mattress:** Use the adjustment straps located on the underside of the mattress to secure it to the bed frame, preventing slippage.
4. **Connect the Compressor:** Hang the compressor unit securely at the foot end of the bed using its integrated hangers.
5. **Connect Air Hoses:** Connect the air hoses from the mattress to the air outlets on the compressor unit. Ensure a secure and tight connection.



Figure 4.1: Demonstrates connecting the air hoses from the mattress to the compressor unit.

6. **Plug in the Compressor:** Plug the compressor's power cord into a grounded electrical outlet (AC 220-240V, 50 Hz).
7. **Initial Inflation:** Turn on the compressor using the On/Off button. The mattress will begin to inflate. Allow approximately 20-30 minutes for the mattress to fully inflate and stabilize before placing a patient on it.

5. OPERATING INSTRUCTIONS

5.1. Control Panel Overview

The compressor unit features a control panel for adjusting settings and monitoring system status. Refer to the labels on your specific unit for exact button functions.

5.2. Pressure Adjustment

Adjust the pressure setting based on the patient's weight. The compressor allows for pressure range adjustment for patients weighing between 40 kg and 200 kg. Use the pressure adjustment dial or buttons on the compressor to select the appropriate setting for optimal pressure redistribution.

5.3. Therapy Modes

The Domus 4 offers three therapy modes:

- **Alternating Pressure Mode:** This is the primary mode, where air cells inflate and deflate in an alternating cycle (typically 10 minutes) to continuously redistribute pressure and stimulate blood flow.
- **Static Mode:** In this mode, all air cells remain inflated to a constant pressure, providing a firm, stable surface. This mode is useful for patient transfers or when a stable surface is temporarily required.
- **Anti-Shearing Mode:** This mode helps reduce shearing forces on the patient's skin, often by slightly reducing pressure in certain areas or adjusting cell inflation patterns.

5.4. Special Functions

- **Max Firm:** This function inflates all cells to maximum firmness, useful for patient care activities like dressing changes or transfers.
- **Panel Lock:** Activates a lock function on the control panel to prevent accidental changes to settings.
- **Transport Mode:** When the compressor is disconnected, the mattress can maintain air for a period using the transport plug. Insert the transport plug into the air hose connection point on the mattress to seal the air within the cells.



Figure 5.1: The transport plug, used to seal air within the mattress cells for patient transport or power outages.

- **CPR Function:** In an emergency requiring CPR, pull the red CPR valve to rapidly deflate the mattress, providing a firm surface for resuscitation.



Figure 5.2: Illustrates the pressure redistribution effect of the mattress on a patient's foot, highlighting its therapeutic efficacy.

6. MAINTENANCE AND CARE

6.1. Cleaning the Mattress Cover

The mattress cover is designed for easy cleaning. It can be machine washed. Follow these guidelines:

- Remove the cover from the mattress.
- Machine wash according to the care label instructions (typically gentle cycle with mild detergent).
- Do not bleach.
- Air dry or tumble dry on low heat. Ensure the cover is completely dry before reattaching.

6.2. Cleaning the Compressor Unit

Wipe the exterior of the compressor unit with a damp cloth and mild disinfectant. Do not immerse the unit in water or spray liquids directly onto it.

6.3. Storage

If storing the system for an extended period:

- Deflate the mattress completely.
- Clean all components thoroughly.
- Fold or roll the mattress neatly.
- Store the mattress and compressor in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Domus 4 system.

Problem	Possible Cause	Solution
Mattress not inflating or losing air.	Air hoses not securely connected. Compressor not powered on. Leak in mattress or hoses. CPR valve open.	Ensure hoses are tightly connected. Check power cord and On/Off switch. Inspect mattress and hoses for punctures; repair if possible or contact support. Ensure CPR valve is closed.
Compressor making unusual noise.	Compressor unit not stable. Internal malfunction.	Ensure compressor is hung securely and not vibrating against a surface. If noise persists, discontinue use and contact support.
Alarms sounding (Low Pressure, Power Failure, System Fault).	Low pressure: Leak or patient weight exceeding capacity. Power failure: Power disconnected. System fault: Internal error.	Check for leaks, adjust pressure setting. Ensure power cord is connected. For system fault, restart unit; if alarm persists, contact support.
Mattress feels too firm or too soft.	Incorrect pressure setting for patient weight.	Adjust the pressure setting on the compressor unit according to the patient's weight (40-200 kg range).

If you encounter a problem not listed here, or if the issue persists after attempting the suggested solutions, please contact customer support.

8. TECHNICAL SPECIFICATIONS

8.1. Mattress Specifications

- **Dimensions (L x W x H):** 200 x 85 x 20.32 cm
- **Weight:** 6.9 kg
- **Cells:** 20 independent 20.32 cm Nylon PU cells
- **Static Head Zone:** 4 cells
- **Ventilated Cells:** 9 cells
- **Base Material:** Nylon PVC
- **CPR Function:** Yes
- **Cable Guide:** Yes
- **Adjustment Straps for Bed Frame:** Yes
- **Internal Safety Springs:** Yes
- **External Protection Tube:** Yes
- **Flame Retardant Certificates:** EN 597-1 and EN 597-2

8.2. Compressor Specifications

- **Dimensions (L x W x H):** 29 x 18.5 x 12.6 cm
- **Weight:** 2.2 kg
- **Voltage:** AC 220-240V, 50 Hz
- **Max Air Flow:** 8 liters/minute
- **Pressure Range Adjustment:** 40-200 kg patient weight
- **Alternating Cycle Time:** 10 minutes
- **Therapies:** Alternating, Static, Anti-shearing
- **Functions:** Max Firm, Panel Lock
- **Alarms:** Low Pressure, Power Failure, System Fault
- **Noise Level:** 26 dBA
- **On/Off Button:** Yes
- **Transport Mode:** Yes
- **Hangers:** Yes
- **Casing:** Flame-retardant ABS
- **Certificates:** Class II and Type BF electrical shock protection, IP21 electrical safety standards

8.3. Cover Specifications

- **Material:** Padded Nylon PU with ionic silver (Ag+) antibacterial treatment
- **Closure:** Zipper with flap
- **Water Resistant:** Yes
- **Vapor Permeable:** Yes
- **Infection Control:** Anti-mold and anti-fungal
- **Biocompatibility:** Yes
- **Care Instructions:** Machine wash

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The APEX Domus 4 Anti-Decubitus Mattress system, including both the mattress and the compressor, comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from misuse, accidents, unauthorized repairs, or failure to follow the instructions in this manual.

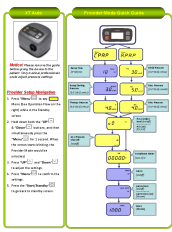


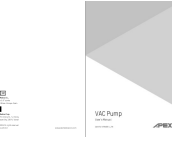

9.2. Customer Support

For technical assistance, warranty claims, or to inquire about replacement parts, please contact your authorized dealer or the manufacturer's customer service. Please have your product model number (Domus 4 or QA-00050/D4) and purchase date available when contacting support.

Manufacturer: Apex

Brand: Queraltó

Related Documents - Domus 4 (QA-00050/D4)

 <p>APEX XT Auto Provider Mode Quick Guide</p>	<p>APEX XT Auto Provider Mode Quick Guide</p> <p>A quick guide for medical professionals on how to use the APEX XT Auto device in Provider Mode, including setup navigation and resetting compliance meters.</p>
 <p>APEX-V2 Instruction Manual</p>	<p>APEX-V2 Massage Chair Instruction Manual - Setup, Operation, and Maintenance Guide</p> <p>Comprehensive instruction manual for the APEX-V2 massage chair, covering safety precautions, installation, operation, settings, specifications, troubleshooting, cleaning, and maintenance. Learn how to set up and use your APEX-V2 massage chair effectively.</p>
 <p>XT Auto CPAP System Instruction Manual</p>	<p>APEX XT Auto CPAP System Instruction Manual</p> <p>Comprehensive instruction manual for the APEX XT Auto CPAP System (Model 9S-005720), detailing setup, operation, maintenance, troubleshooting, and technical specifications for treating Obstructive Sleep Apnea (OSA).</p>
 <p>VAC Pump</p>	<p>APEX VAC Pump User's Manual: Instructions and Safety Guide</p> <p>Comprehensive user's manual for the APEX VAC Pump, detailing operation, safety, technical specifications, and troubleshooting for VacPro, VacMaxi, and VacPlus models from Apex Medical Corp.</p>
 <p>DESTINY SECURITY SYSTEM</p>	<p>DESTINY Security System Owner's Manual</p> <p>This owner's manual for the Apex DESTINY Security System provides comprehensive guidance on installation, operation, arming modes (AWAY, HOME, NIGHT), remote access, bypass functions, and optional home automation features.</p>

Massage chair
User operation manual

APEX



[Apex AP-Pump Massage Chair User Operation Manual](#)

Comprehensive user operation manual for the Apex AP-Pump massage chair, covering safety precautions, maintenance, installation, controller functions, troubleshooting, and specifications.