

APEX Domus 3

Apex Medical Domus 3 Alternating Pressure Mattress System User Manual

Model: Domus 3

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Apex Medical Domus 3 Alternating Pressure Mattress System. This system is designed to assist in the prevention and treatment of pressure injuries, ulcers, and bedsores for individuals requiring extended bed rest. Please read this manual thoroughly before setup and operation.



Figure 1.1: The Apex Medical Domus 3 Alternating Pressure Mattress System. This image displays the complete system, including the mattress installed on a hospital bed frame and the external pump unit. The mattress features individual air cells, and the pump is shown connected to the mattress.

2. SAFETY INFORMATION

Adherence to the following safety guidelines is crucial for patient well-being and proper system function.

- Always ensure the mattress is properly inflated before placing a patient on it.
- Do not use the system near open flames or sources of ignition.
- Keep the pump unit away from water or excessive moisture.
- Regularly check for any signs of damage to the mattress or pump. Discontinue use and contact support if damage is found.
- The system includes a **low pressure alarm** to alert caregivers to potential issues with mattress inflation. Respond promptly to any alarm.
- In case of emergency requiring rapid deflation, pull the **CPR strap** located on the mattress.
- Ensure the power cord is routed safely to prevent tripping hazards or damage.
- This device is intended for medical use and should be operated under the guidance of a healthcare professional.

3. COMPONENTS

The Apex Medical Domus 3 system typically includes the following components:

- Domus 3 Alternating Pressure Mattress (8-inch height)
- Variable Pressure Pump System
- Nylon/PU Cover (pre-installed on mattress)
- Power Cord

4. SETUP INSTRUCTIONS

1. **Prepare the Bed Frame:** Place the mattress system directly onto a standard hospital or home bed frame. Ensure the bed frame is clean and free of sharp objects that could damage the mattress.
2. **Position the Mattress:** Unroll the Domus 3 mattress on the bed frame with the air hose connection end positioned towards the foot of the bed where the pump will be placed. Ensure the CPR strap is accessible.
3. **Connect the Pump:** Attach the air hoses from the mattress to the corresponding connectors on the variable pressure pump unit. Ensure connections are secure.
4. **Mount the Pump:** Hang the pump unit securely at the foot of the bed using its integrated hangers.
5. **Connect Power:** Plug the pump's power cord into a grounded electrical outlet.
6. **Initial Inflation:** Turn on the pump. 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.



Zipper-all-Around Cover

Nylon/PU Cover

Figure 4.1: Mattress Cover Features. An image showcasing two features of the mattress cover: a close-up of the zipper-all-around design for easy removal and replacement, and a magnified view of the Nylon/PU cover material demonstrating its water-resistant properties with water droplets on the surface.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

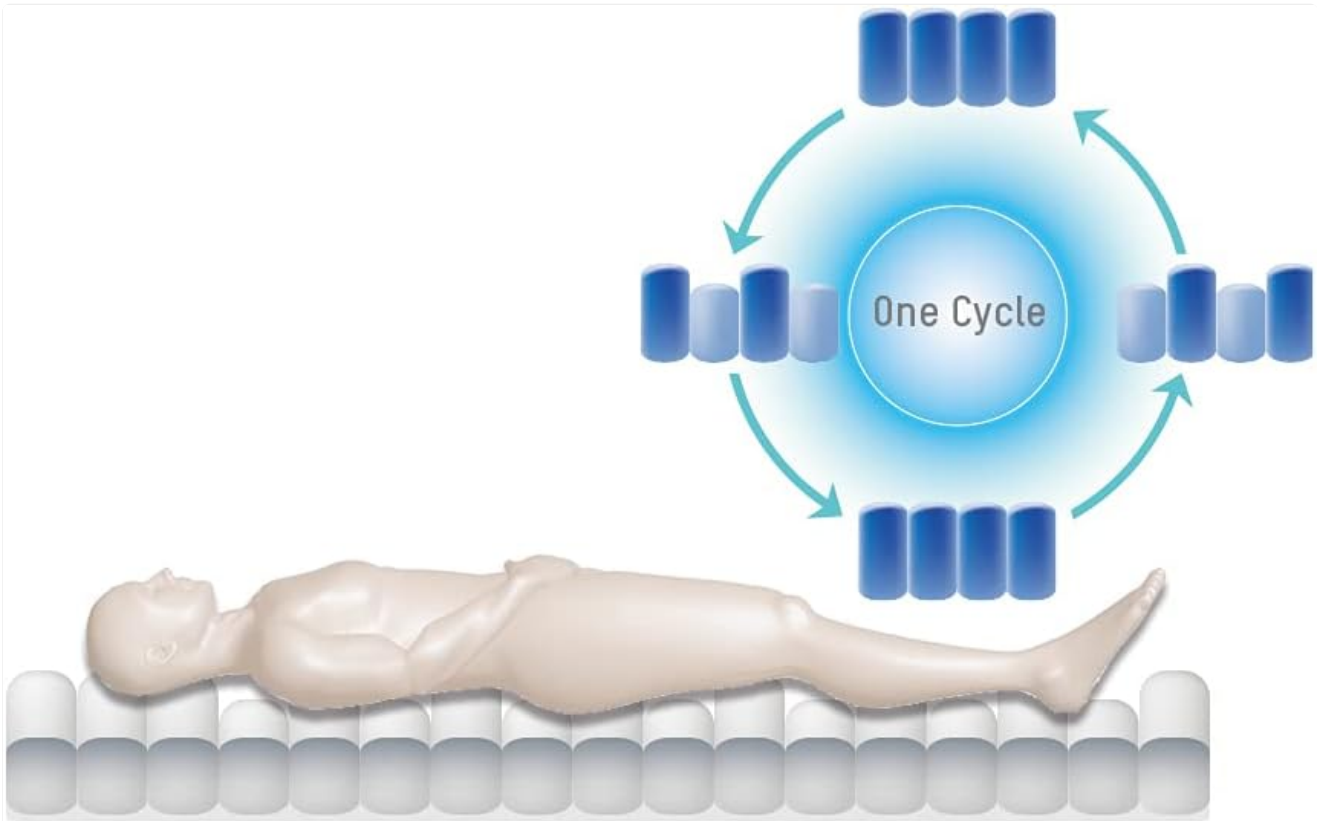
- To power on the system, press the green power switch on the pump unit.
- To power off, press the power switch again.

5.2 Therapy Modes

The Domus 3 offers two therapy modes:

- **Alternating Mode:** This mode cyclically inflates and deflates individual air cells to redistribute pressure points, aiding in pressure injury prevention and treatment. This is the primary therapeutic mode.
- **Static Mode:** This mode maintains a constant, stable surface pressure across the entire mattress. It is suitable for general use when alternating pressure is not required or desired.

Refer to the pump unit's controls to select the desired therapy mode.



Alternative pressure redistribution system can prevent pressure injury

Figure 5.1: Alternating Pressure Cycle. This diagram shows a human figure lying on the mattress, with an illustration of the alternating pressure cycle. Blue blocks represent inflated air cells, and arrows indicate the cyclical inflation and deflation pattern designed to redistribute pressure and prevent injury.

5.3 Pressure Adjustment (Firmness)

The pump unit features a variable pressure setting with a weight indicator.

- Adjust the pressure knob on the pump unit according to the patient's weight and comfort preference.
- Higher weight settings will result in firmer mattress inflation.
- Always ensure the patient is comfortable and adequately supported.

5.4 Low Air Loss Function

Air cells 3 through 11 are designed with a low air loss feature. This function continuously ventilates air to wick moisture and heat away from the mattress surface, contributing to patient comfort and skin integrity. This operates automatically when the system is powered on.



Figure 5.2: Low Air Loss Feature. A detailed view of the mattress surface, highlighting the low air loss feature. Blue arrows indicate airflow through the air cells, designed to reduce moisture and heat for patient comfort and prevent skin maceration.

6. MAINTENANCE AND CARE

6.1 Cleaning the Mattress and Cover

- The Nylon/PU cover is water-resistant and vapor permeable. It can be wiped clean with a mild disinfectant solution.
- Ensure the cover is completely dry before re-use.
- Do not immerse the pump unit in water. Wipe the exterior with a damp cloth if necessary.

6.2 Air Cell Replacement

Each of the 20 individual 8-inch air cells can be removed and replaced if damaged.

1. Turn off the pump and disconnect it from the mattress.
2. Unzip the mattress cover.

- 3. Carefully detach the damaged air cell from its connections within the mattress structure.
- 4. Install a new, compatible air cell, ensuring it is securely connected.
- 5. Zip the mattress cover back into place and re-connect the pump for inflation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Mattress not inflating or losing pressure	<ul style="list-style-type: none">• Power cord disconnected• Air hoses not securely connected• Leak in mattress or air cells• Pump malfunction	<ul style="list-style-type: none">• Check power connection to outlet and pump.• Ensure air hoses are firmly attached to both mattress and pump.• Inspect mattress and individual air cells for punctures or damage. Replace damaged cells if necessary.• Contact customer support if pump appears to be malfunctioning.
Low pressure alarm sounds	<ul style="list-style-type: none">• Mattress not fully inflated• Air leak• Patient weight exceeds capacity	<ul style="list-style-type: none">• Allow more time for inflation.• Check for leaks in mattress or hose connections.• Verify patient weight is within the 440 lbs capacity.
Pump is unusually loud	<ul style="list-style-type: none">• Obstruction around pump fan• Pump malfunction	<ul style="list-style-type: none">• Ensure adequate ventilation around the pump unit.• Contact customer support if noise persists. (Note: Pump noise level is typically ≤ 30dB(A)).

8. SPECIFICATIONS

Feature	Detail
Model	Domus 3
Mattress Dimensions (L x W x H)	78.7 x 35.4 x 8 inches
System Weight	Approximately 22.3 Pounds
Weight Capacity	440 pounds
Fabric Type	Nylon, Polyurethane (Cover)
Special Features	Low Air Loss, Alternating Pressure, Water Resistant Cover, CPR Strap, Low Pressure Alarm
Pump Noise Level	≤ 30dB(A)
Manufacturer	Apex Medical



Figure 8.1: System Dimensions. A visual representation of the dimensions for both the Apex Medical Domus 3 mattress and its accompanying pump unit. Key measurements for length, width, and height are indicated for both components.

Two height options



Figure 8.2: Mattress Height Options. This image illustrates the two available height options for the Domus mattress: a 5-inch version and an 8-inch version. The current product is the 8-inch model, providing enhanced support.

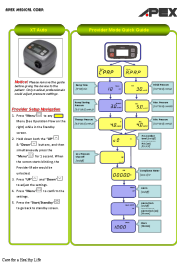
9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Apex Medical Domus 3 Alternating Pressure Mattress System comes with a **1-year guarantee** on both the mattress and the pump unit. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

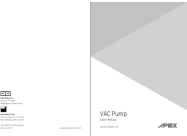
9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Apex Medical customer support. Refer to the product packaging or the official Apex Medical website for current contact information.



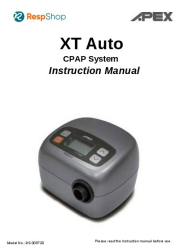
APEX XT Auto Provider Mode Quick Guide

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.



[APEX VAC Pump User's Manual: Instructions and Safety Guide](#)

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.



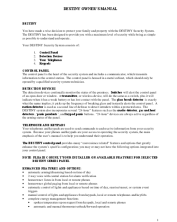
APEX XT Auto CPAP System Instruction Manual

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).



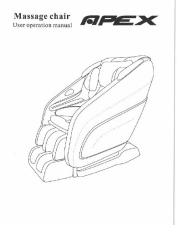
[APEX-V2 Massage Chair Instruction Manual - Setup, Operation, and Maintenance Guide](#)

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.



DESTINY Security System Owner's Manual

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.



Apex AP-Pomp Massage Chair User Operation Manual

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