

Drive Medical 14029

Drive Medical Med-Aire 14029 Low Air Loss Mattress Replacement System User Manual

Model: 14029 | Brand: Drive Medical

INTRODUCTION

This manual provides instructions for the proper setup, operation, maintenance, and troubleshooting of the Drive Medical Med-Aire Low Air Loss Mattress Replacement System with Alternating Pressure, Model 14029. This system is designed to assist in the prevention and treatment of pressure ulcers by providing alternating pressure therapy and microclimate control.

Please read this manual thoroughly before operating the device to ensure safe and effective use.

IMPORTANT SAFETY INFORMATION

Before using any product for health care, it is advised to consult your physician or primary healthcare provider and seek appropriate advice and supervision prior to use.

- **Electrical Safety:** Ensure the power cord is properly connected to a grounded outlet. Do not operate the unit if the power cord is damaged. Keep the control unit away from water or excessive moisture.
- **Patient Weight Capacity:** Do not exceed the maximum weight capacity of 450 lbs.
- **CPR Valve:** Familiarize yourself with the CPR valve for rapid deflation in emergency situations.
- **Positioning:** Ensure the mattress is correctly positioned on the bed frame to prevent shifting.
- **Flammable Materials:** Keep the system away from open flames or sources of ignition.

COMPONENTS OVERVIEW

The Med-Aire Low Air Loss Mattress Replacement System consists of the following main components:

- **Mattress:** An 8-inch deep mattress with 20 individually replaceable air bladders, designed for alternating pressure and low air loss therapy. It includes a pillow function for head stability and comfort, and cell-on-cell technology for

power outage protection.

- **Control Unit (Pump):** A digital control unit with an 8 LPM (liters per minute) airflow, offering 4 cycle time options (10, 15, 20, 25 minutes) and adjustable comfort settings. It features diagnostic alarms and an auto-return function.
- **Cover:** A removable 4-way stretch PU cover that is fluid-resistant, low shear, and vapor permeable, designed to protect the skin from friction and moisture.
- **Air Hoses:** Tubing with EZ Lock / Quick Release design for easy connection and disconnection between the mattress and control unit.



Figure 1: The Drive Medical Med-Aire Low Air Loss Mattress Replacement System installed on a bed frame. The mattress is blue and covered with a grey top sheet, connected to a white control unit mounted at the foot of the bed.



Figure 2: The white control unit (pump) for the Med-Aire system, shown with its power cord. The unit features a blue and white interface with various buttons and indicators.



Figure 3: A close-up view of the Med-Aire control unit's interface, highlighting the pressure range indicator, cycle time settings (10, 15, 20, 25 minutes), and mode selection buttons for Static and Alternating pressure. Also visible are indicators for Power Failure, System Failure, Low Pressure, and control buttons for Seat, AutoFirm, Lock, and Mute.

SETUP INSTRUCTIONS

Follow these steps to properly set up your Med-Aire Mattress Replacement System:

1. **Prepare Bed Frame:** Ensure the bed frame is clean and free of any sharp objects that could damage the mattress.
2. **Place Mattress:** Lay the Med-Aire mattress directly onto the bed frame. Ensure the head and foot ends are correctly oriented.
3. **Connect Air Hoses:** Connect the air hoses from the mattress to the air outlets on the control unit. Ensure the EZ Lock / Quick Release connectors are securely fastened.
4. **Mount Control Unit:** Hang the control unit securely at the foot end of the bed frame using the integrated hooks. Ensure it is stable and not prone to falling.
5. **Connect Power:** Plug the control unit's power cord into a grounded electrical outlet.
6. **Initial Inflation:** Turn on the control unit. The mattress will begin to inflate. Allow approximately 20-30 minutes for the mattress to fully inflate before placing a patient on it.

OPERATING INSTRUCTIONS

Control Unit Functions

- **Power Button:** Turns the system on or off.
- **Pressure Range (+/-):** Adjusts the firmness level of the mattress. Increase for firmer support, decrease for softer support.
- **Cycle Time (10, 15, 20, 25 min):** Selects the duration for each alternating pressure cycle.
- **Static/Alternating Mode:** Toggles between continuous static pressure and dynamic alternating pressure.
- **Seat Function:** Inflates specific cells to provide additional support when the patient is in a seated position.
- **AutoFirm:** Rapidly inflates the mattress to maximum firmness for patient transfer or care procedures.
- **Lock:** Locks the control panel settings to prevent accidental changes.
- **Mute:** Silences audible alarms.

Operating Modes

- **Alternating Pressure Mode:** This is the primary mode for pressure ulcer prevention and treatment. Air cells inflate and deflate in a cyclical pattern to redistribute pressure.
- **Static Pressure Mode:** Provides a constant, even pressure across the entire mattress surface. This mode may be used for patient comfort or during specific care procedures.

Adjusting Comfort Settings

Adjust the pressure range based on the patient's weight and comfort needs. Start with a moderate setting and observe the patient's comfort and skin integrity. The digital control unit provides feedback to help optimize pressure redistribution.

MAINTENANCE AND CARE

Cleaning

- **Mattress Cover:** The removable cover can be wiped down with a mild disinfectant solution. Ensure the cover is completely dry before re-installing.
- **Mattress Cells:** If necessary, the mattress cells can be cleaned with a damp cloth and mild soap. Avoid harsh chemicals.
- **Control Unit:** Wipe the exterior of the control unit with a damp cloth. Do not immerse the unit in water.

Storage

When not in use, ensure the mattress is deflated, cleaned, and stored in a cool, dry place away from direct sunlight and sharp objects. The control unit should also be stored in a dry environment.

Component Replacement

Individual air bladders within the mattress are replaceable. Contact customer support for replacement parts and instructions.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Control unit not powering on	Power cord disconnected; outlet malfunction; unit fault	Check power cord connection; try a different outlet; contact support if issue persists.

Problem	Possible Cause	Solution
Mattress not inflating or losing air	Air hoses disconnected; leak in mattress or hose; control unit malfunction	Ensure air hoses are securely connected; inspect mattress and hoses for visible damage; contact support.
Alarms sounding (Power Failure, System Failure, Low Pressure)	Power interruption; internal system error; significant air loss	Check power supply; inspect for leaks; press Mute to silence, then investigate cause. Contact support for persistent alarms.
Mattress too firm or too soft	Incorrect pressure setting	Adjust the Pressure Range using the +/- buttons on the control unit.

SPECIFICATIONS

- **Product Dimensions:** 80 inches (L) x 36 inches (W) x 8 inches (H)
- **Product Weight:** 31.4 Pounds
- **Weight Capacity:** 450 lbs
- **Pump Airflow:** 8 LPM (liters per minute)
- **Control Unit Cycle Times:** 10, 15, 20, 25 minutes
- **Mattress Cells:** 20 individually replaceable 8-inch air bladders
- **Cover Material:** 4-way stretch PU, fluid-resistant, low shear, vapor permeable

WARRANTY INFORMATION

The Drive Medical Med-Aire Low Air Loss Mattress Replacement System is backed by an 18-month limited warranty from Drive Medical. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation included with your product or contact Drive Medical customer service.

CONTACT INFORMATION

For technical support, replacement parts, or warranty inquiries, please contact your authorized Drive Medical dealer or Drive Medical customer service directly. Contact details can typically be found on the product packaging or the official Drive Medical website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question