



Panacea®

AIR MAX MATTRESS & AIR MAX BARIATRIC MATTRESS

Owner's Manual

Please keep and refer to this Owner's Manual.

Thank you for purchasing a Panacea® Air Max Mattress from Direct Supply Equipment & Furnishings®. Please read this entire guide carefully and keep it for future reference. This guide will provide you with instructions, warnings, warranty information and other important information about your Panacea mattress. Share this information with your housekeeping, nursing and maintenance staff to help ensure the mattress system is cared for properly.

Table of Contents

Introduction	3
Definitions & Symbols	3
Product Description	4 - 5
Product Specifications	6
Warnings	7
Directions for Use	8 - 9
Transportation	10
CPR	10
Cleaning	11
Preventive Maintenance	12
Storage	12
Troubleshooting Guide	13
Limited Warranty	14
Customer Service	15



The control unit is certified to E223556, UL60601-1 and CAN/USA
C22.2 NO.601.1

Introduction & Definitions and Symbols

Introduction

The Panacea® Air Max alternating pressure and true low air loss mattress is designed to assist in the prevention and treatment of up to Stage IV pressure ulcers for Long Term Care residents. The resident support surface fits most standard healthcare beds and consists of 20 air cells that run laterally underneath the entire body and are contained within durable air perimeters. The air flotation system aids in pressure redistribution and relief, and helps maintain low interface pressures throughout the surface.

The Panacea Air Max is a blower-based system that provides alternating pressure and true low air loss therapy. The inflation levels are designed to maintain low interface pressures throughout the mattress, to redistribute peak interface pressures during the alternating cycle and to further relieve peak pressure points as the cycle alternates. The true low air loss feature helps reduce maceration and further skin breakdown by keeping the skin surface cool and dry.

Definitions & Symbols

NOTE: Indicates a tip.


CAUTION: Indicates correct operating or maintenance procedures in order to prevent damage to or destruction of the equipment or other property.

WARNING: Calls attention to a potential danger that requires correct procedures or practices in order to prevent personal injury.

DEVICE: Your Panacea Air Max Mattress.

YOU and YOUR: The facility, community or other entity that has purchased the device.

WE, US, and OUR: Direct Supply® Manufacturing™, Inc.

 Attention. Read the instructions.

Product Description

Indications For Use:

The Panacea Air Max is a flotation therapy mattress which provides pressure management to assist in the prevention and treatment of up to Stage IV pressure ulcers. The alternating pressure and low air loss mode provided with the Panacea Air Max mattress is indicated for use as a preventive tool against further complications associated with critically ill residents or immobility.

Air Cells:

20 air cells provide alternating pressure by deflating every other air cell by 50% of the air pressure, then reinflating before the next cells deflate. This pattern repeats at user determined cycle times. These air cells inflate to a height of 8". Specific cells are designed with holes which allow the Panacea Air Max to provide true low air loss.

Side Perimeters:

Two air-filled side perimeters help to contain the resident within the mattress system. The Panacea Air Max Plus Mattress has 3" raised side perimeters to further help minimize resident falls.

Safety Air Base:

A 2"H safety base of static-filled air cells helps to ensure that the resident is safe and comfortable in the event of a power failure.

CPR Valve:

Disconnect air hoses from control unit. See page 12 for additional instructions.

Cover:

The antimicrobial top fabric is fire resistant, fluid resistant, tear resistant, cleanable and has a replaceable 4-way stretch cover.

Bottom Cover – PVC vinyl bottom for durability and easy cleaning.

Mattress Height:

Panacea Air Max Plus mattress provides a 10" thick pressure management surface and the total mattress height is 13" with raised perimeters.

Friction/Shear:

The cover reduces both friction and shear.

Replacement Mattress:

The mattress should be placed directly on an existing healthcare bed frame of an appropriate size.

Warranty:

The mattress warranty is 2 years against manufacturing defects (see warranty for specific details). The control unit warranty is 18 months.

Pressure Management:

This replacement mattress system is designed to provide pressure management in the prevention and treatment of up to Stage IV pressure ulcers.

Control Unit

Power on/off Standby Button:

Powers the control unit on and off.

Soft/Firm:

Adjusts the pressure within the system.

Mode Button:

Used to switch between different therapy options:

1. Alternate: choose from 3 to 20 alternating pressure cycles
2. Static: turns off Alternating Pressure Therapy

Cycle Time:

Increases or decreases the time of cycle between 3 to 20 minutes.

Autofirm Button:

Quickly inflates mattress to maximum firmness.

Fowler Button:

Boosts pressure during upright, fowler position.

Optional Auto Fowler:

When this option is ordered, the sensor can be connected to the control unit to automatically boost pressure during the upright fowler position to prevent bottoming out.

Lockout Button:

Locks out adjustment of all functions. Press for 2 seconds to Lock and Unlock.

Power Fail/Low Pressure:

Alarm sounds and light illuminates to notify that a power failure has occurred or that the hose has become disconnected from the control unit.

Alarm Silence Button:

Silences the audible Power Fail and Low Pressure alarm.

Product Specifications

Cover:

4-Way Stretch Top Cover, PVC Bottom Cover
Antimicrobial
Flame Resistant
Fluid Resistant
Tear Resistant

Fire Ratings:

CA #117 – Panacea Air Max meets California Technical Bulletin 117 requirements
CA #129 – Panacea Air Max is exempt from this test
TB603 – Panacea Air Max is exempt from this test
16 CFR 1633 – Panacea Air Max is exempt from this test

Air Cells:

70 Denier Nylon/Polyurethane

Side Perimeters:

70 Denier Nylon/Polyurethane

Safety Air Base:

70 Denier Nylon/Polyurethane

Control Unit:

120V, 60 Hz

Surface Sizes:

32"W x 10"H x 80"L, 500 lb. weight capacity
35"W x 10"H x 75"L, 500 lb. weight capacity
35"W x 10"H x 80"L, 500 lb. weight capacity
35"W x 10"H x 84"L, 500 lb. weight capacity
39"W x 10"H x 80"L, 500 lb. weight capacity
42"W x 10"H x 80"L, 1,000 lb. weight capacity
48"W x 10"H x 80"L, 1,000 lb. weight capacity
54"W x 10"H x 80"L, 1,000 lb. weight capacity
60"W x 10"H x 80"L, 1,000 lb. weight capacity

- ⚠ 1. Resident's body cannot exceed the width of the mattress.
2. Check the weight capacity of the bed to make sure both the mattress and bed are capable of supporting additional weight.

Operating Modes:

Panacea Air Max – Alternating Pressure
Provides adjustable 3- to 20-minute loading and unloading cycles designed to maintain low interface pressures throughout the mattress, to redistribute peak interface pressures during the cycle.

Panacea Air Max – Static/True Low Air Loss only

Powerful blower provides continuous 1,750 lpm airflow to help keep the resident's skin dry. The non-quilted cover maximizes the system's benefits.

Warnings

Read and follow all directions and warnings before using this product.

⚠ WARNING –

1. Failure to comply with all directions and warnings may result in injury or death; use only as directed.
2. This product is not suitable for all individuals. Other devices may be required.
3. Inspect the product for damage before each use and do not use it if it appears to be damaged or not functioning properly.
4. Never alter the product in any way.
5. This product is designed for indoor use only within close proximity to skilled caregivers.
6. This device is not designed to operate with residents weighing more than 500 lbs. on mattresses up 39" wide and 1,000 lbs. for 42" to 60" wide mattresses.

NOTE: *Resident's body cannot exceed the width of the mattress at any weight capacity.*

⚠ NOTE – This product is designed to assist in the prevention and treatment of pressure ulcers and may require other equipment. This may include, but is not limited to:

1. Bed rails for repositioning and fall prevention.
2. Resident monitoring devices for elopement prevention.
3. Other devices as specified by the caregiver.

⚠ WARNING – To reduce the risk of electrocution:

1. Always unplug this unit immediately after using.
2. Do not operate near water.
3. Do not place or store product where it can fall or be pulled into a tub or sink.
4. Do not place in or drop into water or other liquid.
5. Do not reach for a product that has fallen into water. Unplug immediately.
6. Do not remove control unit cover. Risk of electrical shock.

⚠ WARNING – To reduce the risk of burns, fire or injury to persons:

1. Use this unit only for its intended use as described in the operating instructions.
2. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the unit for examination and repair.
3. Keep the cord away from heated surfaces.
4. Never drop or insert any object into any opening or hose.
5. Do not use outdoors.

⚠ WARNING – This device is only a tool to assist with pressure reduction as part of an overall care plan. Failure to comply with all instructions, warnings and precautions or using the product for a purpose other than the recommended use could result in bodily injury or death.

This product is not designed to replace good caregiving practices including, but not limited to:

- Direct patient and resident supervision;
- Adequate care plans and training for staff personnel for entrapment and fall prevent.
- Inspection and testing before use.

Directions for Use

1. Place the Panacea® Air Max mattress on the bed frame with the hoses exiting at the foot of the bed.
2. Secure mattress to the bed deck using the black straps attached to the bottom of the mattress. Be sure to only attach the straps to the parts of the bed that articulate and not to the stationary parts of the frame.
3. Hang the control unit on the end of the bed using the hangers, or place on a stable horizontal surface.
4. Ensure the air lines are not “kinked” or “twisted”. Connect the mattress to the control unit by pushing the connector into the air ports located on the side of the blower until you hear it “click” securely into place.
5. Ensure the electrical power source, if switched, is in an OFF position, then plug in the power cord and switch to ON. The POWER ON lamp is now illuminated.
6. Set the firmness level to the highest setting and allow approximately 2 minutes for the mattress to fully inflate. A green light next to the Alarm Silence button will indicate when it is fully inflated.
7. After preparing the mattress surface with appropriate linens (not included), place the resident on the mattress.

LINEN NOTE: *Deep-pocketed sheets are recommended (not included). Multiple layering of linens or under pads beneath the resident can negatively affect the mattress's pressure management capabilities and should be avoided unless recommended by a caregiver.*

8. Decrease firmness if necessary for resident comfort, support, and immersion into the mattress for optimal pressure redistribution.
 - a) A common method for sizing an air mattress is to check to see if suitable pressure is selected by sliding one hand between the air mattress and the air/foam base under the resident's buttocks. Users should be able to feel the space between their hand and the resident's buttocks with the acceptable range being 25 to 40mm (1" to 1½"). This hand check procedure is issued by AHCPR (Agency for Health Care Policy and Research).
 - b) Adjust the firmness by repeatedly pressing the firmness buttons; Soft button for more immersion (if too much space during hand check) or Firm button for less immersion (not enough space during hand check)
9. Once the mattress is inflated, press the Mode key several times to select one of the following:
 - a) Alternate: Select this mode and choose the cycle time by pressing the + or - symbols to increase or decrease the cycle time as recommended by the caregiver
 - i. When this mode is selected, the unit will reduce the pressure in cells through a series of pressure changes allowing for the resident to be supported by two thirds of the cells at all times and off loading one third of the mattress cells. A different set of cells will deflate to approximately 50% of the set comfort firmness at each cycle time.

b) Static

- i. This mode turns the alternating pressure functionality off but still allows for all the remaining features to be used including true low air loss therapy.

c) Auto Firm

- i. This mode allows for maximum firmness at the touch of a button. For extra firm support during resident ingress/egress, resident wound care or resident turning it is recommended to set the comfort level to the maximum firmness. Firmness can be easily returned to the previous comfort levels by pressing the Mode key again.

⚠ NOTE – When optional upright (Fowler) mode is chosen, the pressures in the mattress will be increased to approximately 25 to 50% higher than the set comfort pressures. This enables the resident to be supported without bottoming out. Pushing the Fowler button again will return the firmness to the previous comfort level.

10. Control unit functions (including power) can be locked out from being accidentally changed, by simply pressing and holding the lock key until the light comes on. Function can be regained by pressing and holding the lock key again until the light goes out.
11. An audio-visual alarm is sounded in the event of power failure or when the hose is disconnected from the unit.
12. The audio alarm can be muted using alarm silence key.

⚠ WARNING – Only mute the alarm if a care giving or medical professional will be present with the resident while the alarm is silenced.

⚠ CAUTION – Be careful not to puncture the mattress with needles or sharp instruments. This may result in loss of integrity of the cover or internal air system.

⚠ NOTE – This product is only one element of care in the prevention and treatment of pressure ulcers by medical professionals and skilled caregivers to assist in the treatment and prevention of up to Stage IV decubitus ulcers for residents under their care. This product is not designed to and cannot replace good care giving practices and treatment including, but not limited to:

- Appropriate nutrition and hydration, frequent positioning, routine skin assessment, wound treatment, infection control, and other generally accepted standards of care and prevention.
- Adequate training for and precautions by staff personnel for bed entrapment.
- Selection of an appropriate bed system to use with the product and proper maintenance and use of the product.
- Testing of the product before each use.

Transportation & CPR

Transportation

⚠ NOTE – This mattress is not designed to hold air if the control unit is not on and connected to the unit. It is recommended to transfer the resident off of the mattress prior to transporting the resident.

⚠ WARNING – DO NOT attempt to use the mattress as a carrying device, as it is not designed to carry a resident's weight unsupported.

CPR

The standards for life support recommended by the American Heart Association for performing CPR recommend a hard level surface for performing CPR, moving the person to the floor if possible. If unable to move the resident to another surface to perform CPR, place a crash board underneath the resident and follow appropriate CPR procedures.

To deflate the mattress for CPR function, disconnect the hoses from the control unit and remove the CPR plug from the hose located at the foot end of the mattress. To remove the CPR valve, squeeze the gray buttons on the side of the valve and pull gently. The control unit should be turned off and/or removed to prevent the mattress from re-inflating during CPR.

In case of emergency, use a scissors or knife to cut the hose and/or the air cushions in the mattress.

Cleaning

Cleaning and Disinfecting

Mattress

Only the outer cover requires cleaning and maintenance. Disassembly of the mattress for cleaning of internal components is not recommended. Approved products for cleaning the cover include standard hospital-approved tuberculocidal disinfectants such as quaternary ammonia, germicidal phenols, or soap and water (Lysol IC Quaternary Cleaner Disinfectant; Proctor & Gamble Clean Quick Liquid Quaternary Sanitizer; Q-128 Quaternary Disinfectant). Use products in dilutions as specified on the manufacturer's label. **DO NOT USE BLEACH.** For soils or stains, wipe fabric clean with neutral suds and lukewarm water. For hard to clean spots, use standard liquid household/vinyl cleaners with a soft bristle brush. **DO NOT USE HARSH SOLVENTS OR CLEANERS.**

Control Unit

⚠ WARNING – Before attempting to clean the control unit, turn off unit and disconnect the power cord from the power source.

DO NOT heat, steam autoclave or immerse the control unit in liquids.

1. The following germicidal detergents / disinfectants are recommended by the EPA as hospital disinfectants.

Hi-Tor Germicidal Detergent
Huntington Laboratories, Inc.
Indiana EPA #303-91

2. Follow the preparation instructions provided with the germicidal detergent/ disinfectant solution to prepare the required amount of disinfectant solution or mild detergent solution.
3. Pour required amount of the germicidal solution into a spray bottle.
4. Using a brush or cloth, wipe off dust. If necessary, spray the exterior of the top and the bottom enclosures, power cord and the cord plug with the prepared disinfectant or detergent solution. Using a damp cloth wipe down the sprayed surface cleanly.

NOTE: *Do not spray excess amount of solution on the control unit.*

5. Once the control unit is clean, wipe the unit, the power cord and the cord plug down with a clean dry cloth.
6. Place the control unit to dry in a cool and dry area for an hour before operating the unit again. If the control unit is not used immediately, place the control unit in a plastic bag and store it in a storage area.

Preventive Maintenance & Storage

Preventive Maintenance

It is important to periodically test the Panacea Air Max control unit to verify the proper functionality. Lack of regular maintenance can result in poor or reduced resident support.

1. CLEAN FILTER EVERY 3 MONTHS AT MINIMUM OR AS NEEDED
2. The air filter is accessible from the outside of the pump; it is located behind the handle of the control unit.
 - Remove the foam filter by gently pulling it from behind the handle. Replace with a new filter or hand wash using warm water and mild detergent. Rinse thoroughly and allow to air dry.
3. Replace the filter and the cover.

Storage

1. Always store the support surface flat on a clean, level surface.
2. Avoid storage of other equipment on top of the support surface.

Troubleshooting Guide

Mattress will not inflate or if every other cell is not inflating:

- Disconnect the control unit and make sure air is flowing from the open ports. This is done by disconnecting the control unit from the mattress and physically feeling the air blowing out from one port and then the other. It may take several minutes to switch from one port to the other depending on the control unit's cycle time. If the control unit is not blowing air out of the ports, call for service.
- Check to make sure the control unit is on.
- Check to make sure the control unit is properly connected to the mattress.
- Check to make sure the red CPR release valve is closed.
- Open mattress and inspect the internal connections to make sure each individual air cell is properly connected and not leaking. If a defect is discovered, call for repair or replacement of defective component.
- Visually inspect each air cell to make sure there are no cuts, punctures or tears in the material with the exception of the low air loss holes designated by the white circles on the air cells. If a defect is discovered, call for repair or replacement of defective component.
- Check to make sure there are no kinks or leaks in the internal and external hoses. If a defect is discovered, call for repair or replacement of defective component.

Mattress is soft and will not get firm or Low Pressure Alarm is sounding:

- Check control unit to make sure it is on and functioning properly. If the control unit is not functioning, call for service.
- Inspect the air filter to make sure it is clean. The filter is located on the back of the control unit near the upper left corner. The filter should be white in color and free of dust or other debris. If the filter is not clean, replace with a new filter.
- Visually inspect each air cell to make sure there are no cuts, punctures or tears in the material with the exception of the low air loss holes designated by the white circles on the air cells. If a defect is discovered call for repair or replacement of defective component.

⚠ NOTE – *The pressure in the mattresses lowers when the weight of the resident is removed from the mattress. The alarm will sound until the pump re-establishes the pressure level. In this situation wait about 5 minutes and check it again.*

Control unit is not working:

- Check to make sure the control unit is plugged into a live electrical socket.
- Make sure the control unit is turned on.
- Check the external fuses to make sure the fuses are in good condition. **Make sure the control unit is unplugged from the power source.** Locate the fuses on the side of the control unit near the on/off switch. Unscrew the fuse cap and inspect the fuse to see if the filament, small wire inside of the glass tube, is broken. If the filament is broken, install new fuse and reinsert the fuse cap. Be sure the replacement fuse is of the same voltage and amperage as the previous fuse.

Limited Warranty

We offer to you, as the original purchaser, a warranty for the Panacea® Air Max mattress. Our warranty applies for the limited warranty period stated below. If any device or device part listed below is defective in material or workmanship during the applicable limited warranty period, we will repair or replace it at our cost. Please note that the decision to repair or replace a device or device part will be at our discretion. Our warranty applies only if the device is properly maintained by the original purchaser for normal, indoor use and does not cover normal wear and tear, modification of the device, or damage caused by abuse, improper use, failure to maintain, use which exceeds the published device limitations, or the combination of any device with another product. In addition, our warranty does not cover fading, characteristics or natural variations in fabric, texture, colorfastness, stains, spills or exposure to chemicals, odors, heat or light. In certain cases, we may provide you repair or adjustment instructions and/or replacement parts and ask you to perform a repair or adjustment or replace a defective part.

Our warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Please note that our limited warranty period begins when we ship the device to you. The limited warranty period and our obligations under the warranty end once you transfer the device to someone else or at the end of the applicable limited warranty period identified below, whichever is earlier.

Product/Part	Warranty Period & Coverage (Parts)	Anticipated Usable Device Life
Electrical Components	18 months	3 years
Mattress	2 years	5 years
Cover	1 year	1 year

Anticipated Usable Device Life is based on normal use with proper maintenance, cleaning and storage. You should still inspect, monitor and care for the device as described in this guide, as the device may need to be replaced sooner than anticipated in particular situations.

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Customer Service

Our promise to you is that you will have a convenient and easy ordering experience, receive a quality mattress and enjoy outrageous customer service. If you have any questions about the mattress you have purchased or would like to request warranty service, please contact: **Direct Supply Equipment & Furnishings®**, 1-800-634-7328, 6767 N. Industrial Road, Milwaukee, WI 53223, SalesSupport@DirectSupply.com



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