



# *Direct Supply<sup>®</sup> Panacea<sup>®</sup> Air Overlay & Direct Supply<sup>®</sup> Panacea<sup>®</sup> Air Overlay Deluxe Owner's Manual*

Thank you for purchasing a Direct Supply<sup>®</sup> Panacea<sup>®</sup> Air Overlay. 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 Direct Supply Panacea Air Overlay. Share this information with your housekeeping, nursing and maintenance staff to help ensure the overlay is cared for properly.

*Please keep and refer to this Owner's Manual.*

**1-800-634-7328 ■ [directsupply.com](http://directsupply.com)**

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## Introduction

The Direct Supply Panacea Air Overlay 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 runs underneath the entire body. The air flotation system aids in pressure redistribution and relief, and helps maintain low interface pressures throughout the surface.

The Direct Supply Panacea Air Overlay uses a quiet, energy-efficient control unit, which provides alternating pressure and limited low air loss therapy. The inflation levels are designed to maintain low interface pressures throughout the overlay, to redistribute peak interface pressures during the cycle, and to further relieve peak pressure points as the cycle alternates.

## Contraindications

Patients conditions for which the application of pressure relieving therapy on an alternation system is contraindicated as follows:

- Cervical or skeletal traction
- Unstable spinal cord injuries

## 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 Direct Supply Panacea Air Overlay.

**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 & Specifications

## Product Description

<b>Indications for Use:</b>	The Direct Supply Panacea Air Overlay is a flotation therapy device that provides pressure management to assist in the prevention and treatment of up to Stage IV pressure ulcers. The alternating pressure mode provided with the Direct Supply Panacea Air Overlay is indicated for use as a preventive tool against further complications associated with critically ill residents or immobility.	
<b>Air Cells:</b>	130 air-filled polyurethane air bubbles/cells are divided into two separate, alternating pressure zones. These air cells inflate to a height of 2½" for Air Overlay and 3¾" for Air Overlay Deluxe.	
<b>Overlay Height:</b>	Air Overlay	The total pressure-management surface height is 2½".
	Air Overlay Deluxe	The total pressure-management surface height is 3¾".
<b>Overlay Placement:</b>	The overlay should be placed directly on an existing healthcare mattress of an appropriate size.	
<b>Pressure Management:</b>	This overlay system is designed to provide pressure management for the prevention and treatment of up to Stage IV pressure ulcers.	

### Control Unit

<b>Power on/off switch:</b>	Powers the control unit on and off.
<b>Firmness dial<sup>†</sup>:</b>	Adjusts the pressure within the system.

*\*Not available on Panacea Air Overlay with non-adjustable pump*

## Product Specifications

<b>Certificates and Fire Ratings</b>	Meets California Technical Bulletin 117 (CA 117) UL 1431 (115V 60Hz) CE (230V 50Hz)	
<b>Control Unit</b>	120 V, 60 Hertz	
<b>Surface Sizes</b>	Air Overlay	35"W x 2½"H x 79"L, 250 lb weight capacity
	Air Overlay Deluxe	35"W x 3¾"H x 79"L
 <i>Check the weight capacity of the bed to make sure both the mattress and bed are capable of supporting additional weight</i>		
<b>Operating Mode</b>	Panacea Air Overlay – Alternating Pressure	
	Provides 10 minute loading and unloading cycle designed to maintain low interface pressures throughout the overlay, to redistribute peak interface pressures during the cycle.	

# Technical Description

## Technical Description

Direct Supply Panacea Air Overlay is designed and manufactured to meet the most demanding environment. The specifications are listed below:

### America, Canada

Equipment fulfils the requirement of the standard UL 1431. CE

- Europe CE.

### Specifications

Item Specification	
Power supply	AC 120V/60Hz, 230V 50Hz 10W
Pressure Range*	40-90mm Hg
Cycle time	10min for 60 Hz, 12min for 50 Hz
Dimension	26cm x 13cm x 8cm
Weight	1.5kg

\*Pressure setting is fixed at 80mm Hg on the Panacea Air Overlay with non-adjustable pump

Due to continued development of these devices, specifications may be changed without prior notice.

Item Specification	
Environment / Temperature Operation:	50°F – 95°F
Storage:	59°F – 122°F
Shipping:	59°F – 122°F
Operation:	20% – 80% non-condensing
Humidity Storage:	10% – 90% non-condensing

### NOTE:

The specifications also apply to those areas operating with the same power supply.

## Environment

The unit should be stored in a clean, dry environment. The following environmental limitations apply to both storage and shipment:

- Temperature: 59°F – 122°F
- Humidity: 10% – 90% (at 104°F)

# Warnings

## Warnings

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

### **WARNINGS**

1. Failure to comply with all directions and warnings may result in injury or death; use only as directed.
2. This device is designed for use on static mattresses only. DO NOT use this device on alternating pressure or lateral rotation mattresses.
3. Due to the alternating pressure feature of the overlay, some devices and products may not be appropriate for use with this device. Do not use pressure pad alarm or alert systems in conjunction with the overlay.
4. This device is not suitable for all individuals. Other devices may be required.
5. Inspect the device for damage before each use and do not use if device appears to be damaged or not functioning properly.
6. Never alter the device in any way.
7. This device is designed for indoor use only within close proximity to skilled caregivers.
8. This device is not designed to operate with patients weighing more than 250 lbs.

**NOTE:** *Resident's body can not exceed the width of the overlay.*

 **WARNING** – This device 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.

### **GROUNDING INSTRUCTIONS**

#### **Three-wire plug ground instructions**

This device is for use on a nominal 120V circuit. This device should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This device is equipped with a cord consisting of a grounding wire with a grounding plug.

#### **DANGER**

***Improper use of the grounding plug can result in a risk of electric shock.***

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The grounding wire is insulated with either a green or green with yellow stripe outer surface.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the device is properly grounded.

## Warnings (continued)

If it is necessary to use an extension cord, use only a 3-wire extension cord that has a three-blade grounding plug, and a 3-slot receptacle that will accept the plug on the device. Replace or repair a damaged cord.

**⚠ 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 device 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 device 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 device 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 device for a purpose other than the recommended use could result in bodily injury or death.

This device is not designed to replace good care giving 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.

**⚠ WARNING** – This device 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 device 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 device and proper maintenance and use of the device.
- Testing of the device before each use.

# Directions for Use

## Directions for Use

1. Place the Direct Supply Panacea Air Overlay on top of the mattress (not supplied) with the hoses exiting at the foot of the bed.
2. Secure the overlay to the mattress by tucking the flaps located at the head and footends under the mattress to prevent movement.
3. Hang the control unit on the end of the bed using the hangers, or place on a stable horizontal surface.
4. Ensure that the air lines are not “kinked” or “twisted”. Connect the overlay to the control unit by pushing the connector into the air ports located on the side of the pump. The hoses can be connected to either port on the pump unit.
5. Ensure that 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 20 minutes for the overlay to fully inflate.
7. After preparing the overlay surface with appropriate linens (not included), place the resident on the overlay.
8. Decrease firmness\* if necessary for resident comfort, support, and immersion into the overlay for optimal pressure redistribution.
  - a) A common method for sizing an air overlay is to check to see if suitable pressure is selected by sliding one hand between the air overlay 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 25-40mm (1" to 1½"). This hand check procedure is issued by AHCPR (Agency for Health Care Policy and Research).
  - b) Adjust the firmness\* by turning the dial; counter clockwise for more immersion (if too much space during hand check, too firm) or clockwise for less immersion (not enough space during hand check, too soft).
9. An audio-visual alarm is sounded in the event of low pressure. Audio alarm can be muted using alarm silence key.

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

*\*Firmness adjustment not available on Panacea Air Overlay with non-adjustable pump*

# Transportation & CPR

## Transportation

Turn the pump off and unplug from the electrical source.

You may now transport the resident while in bed. A properly sealed overlay will continue to support a resident for approximately one hour without power. It is not possible to provide an exact time because it is dependant upon on the resident's weight. Reattach the pump as soon as possible to restore overlay performance.

** WARNING – DO NOT attempt to use the overlay 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 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 patient and follow appropriate CPR procedures.

To deflate the overlay for CPR function, pull the hoses from the pump allowing air to escape. The control unit should be turned off and/or removed to prevent the overlay from re-inflating during CPR.

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

# Cleaning

## Cleaning and Disinfecting

### OVERLAY

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; Procter & 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 Overlay control unit to verify the proper functionality. Lack of regular maintenance can result in poor or reduced resident support.

1. The air filter for the control unit should be checked routinely for signs of dirt or contamination. The frequency for replacing depends on the air quality.
2. The air filter is accessible from the outside of the pump; it is approximately two inches by one inch covered by a plastic cover.
3. As the filter is white, the need to replace dirty filters is apparent because they will darken in color due to the collection of dirt. Simply remove the plastic cover, remove the filter and replace with a new filter.
4. Replace the plastic cover.
5. Check for air leaks and repair leaks following the patch kit instructions.

## Storage

1. After cleaning the overlay and drying it completely it may be folded to smaller size for easier storage.

### ***Avoid storage of other equipment on top of the overlay.***

2. The unit should be stored in a clean, dry environment. Follow the recommended temperature and humidity guidelines when storing the unit:
  - Temperature: 59°F – 122°F
  - Humidity: 10% – 90% (at 104°F)

# Troubleshooting Guide

## Troubleshooting Guide

### *Overlay will not inflate or half the cells are not inflating:*

- Disconnect the control unit from the overlay and make sure that air is flowing from the open ports. This is done by disconnecting the control unit from the overlay 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 that the control unit is on.
- Check to make sure the unit is plugged into a live electrical outlet and that the outlet is not operated by a switch that is in the off position.
- Check to make sure that the control unit is properly connected to the overlay.
- Visually inspect each air cell to make sure there are no cuts, punctures or tears in the material. If defect is found, use repair kit provided to patch the leak. If defect cannot be repaired, contact Direct Supply Equipment & Furnishings for further assistance.
- Check to make sure that there are no kinks or leaks in the hoses. If a defect is discovered, call for repair or replacement of defective component.
- 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.

# Limited Warranty

## Limited Warranty

We offer to you, as the original purchaser, a warranty for the Direct Supply® Panacea® Air Overlay. 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.

<b>Product/Part</b>	<b>Warranty Period &amp; Coverage (Parts)</b>	<b>Anticipated Useable Device Life</b>
Electrical Components	1 year	1 year
Overlay	6 months	6 months

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.

## **Limited Warranty** (continued)

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# *Customer Service*

## **Customer Service**

Our promise to you is that you will have a convenient and easy ordering experience, receive a quality overlay and enjoy outrageous customer service. If you have any questions about the overlay you have purchased or would like to request warranty service, please contact: **Direct Supply Equipment & Furnishings®**, 1-800-634-7328, 6767 North Industrial Road, Milwaukee, WI 53223, [deardirect@directsupply.net](mailto:deardirect@directsupply.net)



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