



# Operation Manual

FOR

Protekt® Aire 2000

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## IMPORTANT SAFEGUARDS

When using electrical products, especially when children are present, basic safety precautions should always be followed, including the following

### READ ALL INSTRUCTIONS BEFORE USING

#### DANGER

To reduce the risk of electrocution:

- Always unplug this product immediately after use.
- Do not use while bathing.
- Do not place or store product where it can fall or be pulled into a tub or sink.
- Do not place or drop into water or other liquids.
- Do not reach for a product that has fallen into water. Unplug immediately.

#### WARNING

To reduce the risk of burns, electrocution, fire or injury to persons:

- A product should never be left unattended when plugged in.
- Close supervision is necessary when this product is used by, on, or near children or invalids.
- Use this product only for its intended use as described in this manual.  
Do not use attachments not recommended by the manufacturer.
- 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 product to a service center for examination and repair.
- Keep the cord away from heated surfaces.
- Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair and the like.
- Never drop or insert any object into any opening or hose.
- Do not use outdoors or operate where aerosol (spray) products are being used.
- Connect this product to a properly grounded outlet only. See Grounding Instructions.

#### GROUNDING

Before any connection is made, make certain that this product is connected to a protective earth conductor via the three-wire power cord; the three-blade plug should be inserted only into a socket outlet that provides a protective earth contact.

### SAVE THESE INSTRUCTIONS

## STATEMENTS & SYMBOLS

*Note, caution, warning & danger statements*

### NOTE

Indicates some tips or some information users should be aware of.

### CAUTION

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

### WARNING/DANGER

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

### Others

Symbols on the printed label on the outside package box are as below:



Grounding Terminal



Always read the operating instructions before use.

### SYMBOLS

| Symbol | Meaning                                                                       |
|--------|-------------------------------------------------------------------------------|
|        | Power ON.                                                                     |
| ○      | Power OFF.                                                                    |
| SN     | Series number.                                                                |
| □      | Class II Medical electric equipment.                                          |
| 人      | Type BF applied part.                                                         |
| 人看书    | Refer to instruction manual/ booklet.                                         |
| IP21   | Degree of protection against harmful ingress of water and particulate matter. |

## INTRODUCTION

### INDICATIONS

Protekt® Aire 2000 pump and overlay system item # 80020, is indicated for the prevention and treatment of any and all stage pressure ulcers when used in conjunction with a comprehensive pressure ulcer management program. It can be used in a hospital, homecare, or other healthcare environment.

# PRODUCT FUNCTIONS

## CONTROL UNIT

The functions of the Protekt® Aire 2000 control unit are described below. Please refer to the figures of the Protekt® Aire 2000 control unit in Fig A.

### Power Switch (1)

Turn ON/OFF the power switch, the control unit will start/stop operation.

### Pressure-adjust Knob (2)

Determine the patient's weight and set the control knob to that weight setting on the control unit.

### Normal Pressure Indicator (3)

A visible indicator (green) tells the pressure has reached a preset or user-defined level.

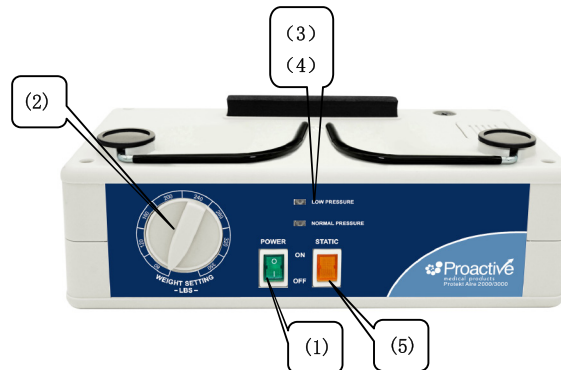
### Low Pressure Indicator (4)

A visible indicator (orange) warns the pressure is below a preset or user-defined level.

### Static/Alternating control (5)

Press ON to set the air overlay to static mode or OFF to set to alternating pressure mode.

1. Power Switch
2. Pressure-adjust Knob
3. Normal Pressure Indicator
4. Low Pressure Indicator
5. Static Control



## OVERLAY

The Protekt® Aire 2000 System comes with a 5" air cell overlay that provides low air loss, alternation and static pressure redistribution therapy. It is composed of a combination of materials including Nylon PVC and PU. It is intended to be placed over an existing mattress. Please refer to the specifications section for details.

## ENTRAPMENT GUIDELINES

The use of Bed Rails is dependent on the setting as well as the facilities protocols. Proactive Medical does not make product recommendations for any given patient. Those decisions are the responsibility of the health care facility and/or health care professional(s) familiar with each patient's unique requirements. Proactive Medical support surfaces are made to fit standard hospital and health care facility beds. However, variations in bed rail dimensions, overlay compression based on patient size and shape, conditions such as dementia, seizure disorders, sleeping problems, incontinence, and restlessness could create an entrapment risk. Proper patient assessment and monitoring, and equipment use and maintenance are required to reduce entrapment risk.

# INSTALLATION INSTRUCTIONS

## Step 1

Place the overlay flat on mattress that is already on the bed frame. The inflation tube should be towards the foot end so that it can be connected to the inflation nozzles on the control unit. Secure the overlay in place.

## Step 2

You may place a thin cotton sheet over the overlay top cover.

## Step 3

Hang the control unit over the frame or board at the foot end of the bed using the hooks attached to the control unit. Make sure the control unit is secured.

## Step 4

Connect the inflation tubes from the overlay to the control unit's inflating nozzles. Make sure they are properly attached.

## NOTE!

**Make sure the air hoses are not kinked or tucked under the overlay. Also check to ensure the CPR valves are properly attached.**

## Step 5

Plug the power cord into an electrical outlet with grounded AC power. This product should be grounded. The power cord has a grounding wire with a grounding pin.

## NOTE!

**Before inserting the plug into the outlet, make sure the voltage is compatible. Also make sure this product is well grounded.**

## Step 6

Turn on the power by pressing the power switch on the control unit. Proceed to the Operating Instructions section on page 7.

# OPERATING INSTRUCTIONS

## Step 1

Turn on the control unit power. The indicator of the power switch will come on. The control unit will start to blow air into the overlay.

## Step 2

The Low Pressure indicator (orange) will come on as inflation is underway.

## Step 3

Press the Static button for a quicker inflation.

## Step 4

When the pressure reaches the preset level, within approximately 30 minutes, the Normal Pressure indicator will come on, and the Low Pressure indicator will turn off.

## Step 5

Patients can directly lie on the overlay or cover with a sheet and tuck loosely to increase the comfort of the patient.

## Step 6

Determine the patient's weight and set the control knob to that weight setting on the control unit.

## Step 7

Press the Static button to shift between Alternating mode and Static Mode. When in Static mode, and the Static indicator will come on. The static mode will be started within approximately 6 minutes. In Alternating Pressure mode, the air cells will alternate in 10 min cycles.

## NOTE!

In static mode, the overlay provides a firm surface that makes it easier for the patient to transfer or reposition. The static mode will help ensure the patient does not bottom out when in a sitting position.

## DISCONNECT DEVICE

To fully disengage the power to the unit, disconnect the power cord from the AC inlet.



## WARNING

- The control unit provided should only be used with the air overlay provided.
- Do not expose the product to lint, dust and sun light to prevent damage of the product.
- Keep the product away from the heat and moisture.
- Keep the product away from pets and children.

## ENVIRONMENT REQUIREMENTS

- Operation Temperature: 50°F~95°F (10°C~35°C)
- Storage and Transport Temperature: 5°F~122°F (-15°C~50°C)
- Operation Humidity: 20%~80% non-condensing

## CLEANING GUIDELINES

- Use a neutral detergent to clean surface of control unit and overlay; disinfectant products may be used according to the manufacturer's protocol. Do not use phenolics on this product.
- Do not immerse the control unit in water.
- Do not heat or steam in autoclave.
- Be sure to fully air dry the overlay and cover after cleaning and before use.
- After using for some time (~ 3 months), clean the air filter cotton inside the enclosure base, steps as below:
  - 1) Take out air filter cover and air filter cotton.
  - 2) Wash air filter cotton with clean water, if the dirt sticks to the filter, soak the air filter cotton in the water.
  - 3) Dry the air filter cotton then put it back to the air filter cover.

## MAINTENANCE

- Make sure the control unit is in good condition by checking if the indicators illuminate when the power is first turned on.
- Power supply cord can be replaced by SERVICE PERSONNEL.

Power supply Information: Non-detachable cord , 18AWG/2C, Rated 300V, 105°C.



### WARNING

For safety reasons, only qualified service personnel should open the equipment.

MANUFACTURER will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.

LAY OPERATOR or LAY RESPONSIBLE ORGANIZATION should contact the MANUFACTURER or the MANUFACTURER'S representative for assistance in setting up, using or maintaining the product and to report unexpected operation or events.

## MAINTENANCE TROUBLE SHOOT / TECHNICAL SPECIFICATIONS

| Trouble Signal       |                         | Failure Cause                                                 | Fault Handling                                        |
|----------------------|-------------------------|---------------------------------------------------------------|-------------------------------------------------------|
| No air output        | Power indicator is ON.  | The inflation tube is not connected to the control unit.      | Connect the air tube.                                 |
|                      |                         | The silicone tubes inside the control unit are disconnected.  | Contact Service Personnel.                            |
| Incomplete inflation | Power indicator is OFF. | No power.                                                     | Turn on power switch                                  |
|                      | overlay too soft.       | Small hole at the air cell, or overlay life comes to its end. | Replace the air cell or the whole overlay.            |
|                      |                         | Air knob indicate at "MIN" location.                          | Turn the air tube at the right to give max pressure . |

### PACKAGE CONTENT LIST

- Control Unit x 1
- Overlay Unit x 1
- User Manual x 1

### TECHNICAL SPECIFICATIONS

INPUT RATING: 120VAC, 60Hz, 1A FUSE RATING: 250V, 1A

| Control Unit               | Overlay                          |
|----------------------------|----------------------------------|
| Item #: 80021              | Item #: 80022                    |
| Power Supply: 120V/60Hz    | Size: 80"L x 36"W x 5"H          |
| Air output: 9 liter/min    | Top Cover Material: Nylon/PU     |
| Pressure range: 30-60 mmHg | Air Cells Material: Nylon/PVC    |
| Cycle Time: 10 min         | Bottom cover material: Nylon/PVC |
| Size: 11" x 5.9" x 3.5"    | # of aircells: 20                |
| Weight: 1.4kg (3lbs)       | CPR Valve? YES                   |

## LIMITED WARRANTY

Your Proactive Medical branded product is warranted to be free of defects in materials and workmanship for 18 Months from the date of purchase for the original consumer purchaser.

This device was built to exacting standards and carefully inspected prior to shipment. This Non-Prorated 18 Month Warranty is an expression of our confidence in the materials and workmanship of our products and our assurance to the consumer of years of dependable service.

This warranty does not cover device failure due to owner misuse or negligence, or normal wear and tear. The warranty does not extend to non-durable components, such as rubber accessories, casters, and grips, which are subject to normal wear and need periodic replacement.

If you have any questions about your Proactive Medical device or this warranty, please contact an authorized Proactive Medical dealer.



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