OPERATING INSTRUCTIONS
K-3 & K-4 ELITE & OEM SERIES

K-3 ELITE ~ AIRE-ZONE™
DIGITAL TRUE LOW AIR LOSS SYSTEM WITH PULSATING WAVE THERAPY

K-3oem ~ EZ-AIRE™
TRUE LOW AIR LOSS SYSTEM WITH PULSATING WAVE THERAPY

K-4 ELITE ~ D³X™
DIGITAL ALTERNATING TRUE LOW AIR LOSS SYSTEM

K-4oem ~ AIRE-FLOAT™
ALTERNATING TRUE LOW AIR LOSS SYSTEM

US & INTERNATIONAL PATENTS PENDING

⚠️ Please read this manual before using this product. Do not discard. Save for future reference.
This manual MUST be given to the user of this product.
A FDA registered company. Products are FDA listed.

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Made in USA
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DANGER, CAUTION AND WARNINGS

Warning words are used in this manual and signify hazards and unsafe practices which could result in personal injury or property damage. See the definitions below for information relating to each word.

⚠️ NOTE / IMPORTANT
Indicates a hazardous situation that could result in damage to property if it is not avoided.

⚠️ DANGER
Danger indicates an imminently hazardous situation, which, if not avoided, will result in serious injury or death.

⚠️ CAUTION
Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.

⚠️ WARNING
Warning indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.

⚠️ RISK OF ELECTRICAL SHOCK
Do not remove control unit cover.

⚠️ EXPLOSION HAZARD
Do not use the control unit in the presence of flammable anesthetics or in the proximity of an oxygen tent.

There is no known risk of adverse effects on the KAP Medical control unit/pump caused by other electromagnetic devices, present at the time of treatment, or vice-versa.

- Refer servicing to qualified service personnel.
- Never drop or insert objects into any opening of the control unit.
- DO NOT SMOKE while using this product and do not use in the presence of smoking materials or open flame. Smoking by visitors in the room will contaminate the system. Therefore, visitor smoking is NOT permitted. Air flowing through air mattress will support combustion. Failure to observe this warning can result in severe fire, property damage and cause injury or death.
- Entrapment may occur. Patient entrapment with bed side rails and mattress may cause injury or death. Mattress MUST fit bed frame and side rails snugly to prevent patient entrapment. Follow the manufacturer’s instructions and monitor patient frequently. Proper patient assessment and monitoring, and proper maintenance and use of equipment is required to reduce the risk of entrapment. Variations in bed rail dimensions, and mattress thickness, size, or density could increase the risk of entrapment. Visit the FDA website at http://www.fda.gov to learn about the risks of entrapment. Refer to the owner’s manual for beds and rails for additional product and safety information. Mattress MUST fit bed frame and bed rails snugly to reduce the risk of entrapment.
- To avoid risk of electric shock, this equipment must only be connected to a supply main with a protective earth using the supplied 14-foot (427cm) hospital-grade power cord provided with the product.
- Do not heat, steam autoclave, immerse the control unit in liquids or spill liquids or food on or into the control unit. In the event of any spillage, immediately turn off the control unit and disconnect it from the power source. Return the control unit for servicing to a factory authorized service center.
- Care should be taken such that the power cord of the control unit is not pinched and does not have any objects placed upon it. Make certain the unit and power cord is not located where it can be stepped on or tripped over.
- Do not modify this equipment without authorization from the manufacturer.
- Not for use in oxygen-rich environments.

- Before opening or cleaning the control unit enclosure, make certain that the unit is turned off and unplugged from its power source. The control unit enclosure should only be opened by factory authorized qualified technical service personnel.

- Please read this manual before operating any of KAP Medical’s Air Therapy systems. If you are unable to understand the manual, please contact your dealer or the manufacturer before attempting to use this equipment. Otherwise personal injury or property damage may result.

- When installing the KAP Medical mattress system, do not exceed the manufacturers rated weight of the mattress or the bed frame. See the bed frame manufacturer’s manual for bed frame weight rating.

**FCC Statements:**

This device complies with FCC part 15.231 for license exempt radio apparatus. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept harmful interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Intended Use**

The KAP MEDICAL Air Therapy Systems are intended to be used for the prevention and treatment of decubitus ulcers.

⚠️ **NOTE: INFORMATION CONTAINED IN THIS OPERATING INSTRUCTION MANUAL IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

**MANUFACTURER’S LIABILITY**

KAP MEDICAL’S original warranty on all K-3 / K-4 Systems will remain in effect during the warranty period, provided any changes, readjustments, or repairs have been carried out by a factory authorized service center or a technician of KAP MEDICAL, or whenever the control unit and mattress system has been used according to the following operating instructions.

KAP MEDICAL’S liability under the warranty is the repair or replacement provided and, in no event, shall KAP MEDICAL’S liability exceed the purchase price paid by the customer for the product. Under no circumstances shall KAP MEDICAL be liable for any loss, direct, indirect, incidental, or special damages arising out of or in connection with the use of this product.

**CONTRAINDICATIONS**

Always consult the patient’s physician before using any of KAP Medical’s Air Therapy Systems.
### TECHNICAL SPECIFICATIONS

#### Electrical Specifications:
Note: The control unit Power Inlet is used as the means of isolating the equipment from the supply mains on all poles simultaneously.

**U.S. / INTL.**
- **Input Voltage AC:** 90 ~ 240 VAC
- **Input Frequency:** 60 / 50 Hz
- **Maximum Power Consumption:** 180 W ± 30 W
- **Circuit Protection:** Dual fused, 250V, 5A Fast blow fuse(s), std. fuses.
- **Fuse Type:** Bussmann GDB-5A
- **Breaking Capacity:** (BRK.CAP.) @ 125 VAC is 10kA @250 VAC is 200A

**Mode of Operation:** Continuous

#### Performance Specifications:

**Weight Capacity:**
- **Mattress Overlay:** 360 lbs. (163 Kg.) maximum.
- **Standard Replacement Mattress:** 360 lbs. (163 Kg.) maximum.
- **Bariatric Replacement Mattress:** 1000 lbs. (455 Kg.) maximum.
- **Raised Side Bolstered Mattress:** 360 lbs. (163 Kg.) maximum.
- **Bariatric Raised Side Bolstered Mattress:** 1000 lbs. (455 Kg.) maximum.
- **Foam Aire Mattress:** 360 lbs. (163 Kg.) maximum.
- **Universal Mattress (UM):** 360 lbs. (163 Kg.) maximum.
- **Expandable Mattress (XM):** 1000 lbs. (455 Kg.) maximum.

**Pressure Zones:** 5
**AP Zones:** 2 (K-4 models only)
**Max Flow:** 1275 LPM (45 CFM)
**Support Surface Inflation Time:** Within 60 seconds.

**Patient Comfort Pressures / Alternating Pressure (K-3, K-4)**
- **Soft Pressure:** 6 ± 5 mmHg
- **Firm Pressure:** 32 ± 5 mmHg
- **A/P Time:** 1 Minute - 99 Minutes. (K-4 model only)
- **A/P Low Pressure:** 10% - 75% (K-4 model only)

**Patient Comfort Pressures / Alternating Pressure (K-3oem, K-4oem)**
- **Soft Pressure:** 7 ± 5 mmHg
- **Firm Pressure:** 32 ± 5 mmHg
- **A/P Time:** 5, 10, 15 and 20 minute A/P Time(s) (K-4oem model only)
- **A/P Low Pressure:** 0% or 50% of high AP pressure setting. (K-4oem model only)

**Patient Contact**
Control unit and the mattress have **lead free**, **mercury free**, and **latex free** components. Dartex top sheet is Halogen-free (bromide-free).

#### Mechanical Specifications: Control Unit (A)

- **Dimensions, LxWxH:** 12” x 5 3/4” x 10.5” (30cm x 14cm x 27cm) (K-3, K-4 models)
- 13.5” x 11” x 6” (34cm x 28cm x 15cm) (K-3oem, K-4oem models)
- **Weight:** K-3, K-3oem = 9 lbs. (4 Kg.) & K-4, K-4oem = 10 lbs. (4.5 Kg.)
- **Power Cord:** 14’ long Hospital Grade
- **Connection:** ½” flow magnetic quick connector (K-3, K-4 models)
- ½” flow single quick disconnect connector (K-3oem model)
- ½” (2) & ¼” flow quick disconnect connector coupling (K-4oem model)
- **Packaging:** 1 piece per box
**Mechanical Specifications: Control Unit (A) (continued):**

- **Air Filter**
- **Charcoal Air Filter**

⚠️ **PLEASE CLEAN FILTER EVERY 3 MONTHS OR WHENEVER DIRTY.** Remove 2 thumb screws and separate filter foam from filter cover. Wash filter foam using soap and water. Dry and replace filter and filter cover on the unit and fasten screws.

**Support Surface (B) Standard, Bariatric & Bolstered:**
Air cushions are high frequency heat sealed, liquid proof and washable. Base is liquid proof and washable. Top Sheet is low friction, low shear, low force producing, breathable, liquid resistant and highly vapor permeable nylon or Dartex or 2-or-4-way stretch Derma-plus urethane coated, low friction, low shear force producing, breathable liquid resistant and highly vapor permeable. 1” or 2” bottom foam pad or 2” air pad on the bottom of the air cushions enclosed in a cover.

The Foam Aire™ mattress has foam filled air cushions, enclosed in a foam base with foam side rails and foam topper. The complete foam assembly is enclosed in a Kevlar fire barrier.

<table>
<thead>
<tr>
<th>Description</th>
<th>Inflated Dim. (LxWxH)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mattress (K-3 models):</td>
<td>80”x36”x10” (203x89x25.5cm)</td>
<td>16 lbs. (7 Kg.)</td>
</tr>
<tr>
<td>Mattress (K-4 models):</td>
<td>80”x36”x10” (203x89x25.5cm)</td>
<td>18 lbs. (8 Kg.)</td>
</tr>
</tbody>
</table>

72”, 76”, 84” & 88” in length mattresses available. 32”, 36”, 39”, 42”, 48”, 54”, 60” & 76” in width mattresses available. 7”, 8” & 10” in height replacement mattresses available, along with 3” or 5” mattress overlays.

Packaging: 1 piece per box

Optional Patented Low Air Loss top sheet available.

Optional mattress with Kevlar lined fire barrier top sheet and mattress base available.

**Environmental Specifications**

**Operating Conditions:**

- Ambient Temperature: 40° ~ 104° F (10° ~ 40° C)
- Relative Humidity: 30% ~ 75% Non-Condensing
- Atmospheric Pressure: 700 hPa to 1060 hPa

**Storage And Shipping Conditions**

- Ambient Temperature: -40° ~ 158° F (-40° ~ 70° C)
- Relative Humidity: 10% ~ 100%
- Atmospheric Pressure: 500 hPa to 1060 hPa

**Protection Against Harmful Ingress Of Liquids:**
Ordinary Protection (IPXO)

**Mattress Sanitation:**
Complete support surface is made out of superior quality materials and is modular in construction. All components such as manifold, hose assembly, air cushions, top sheet, and foam base are interchangeable and can be easily cleaned or detached for laundry. The Foam Aire mattresses have a Kevlar fire retardant barrier inside the cover. Care should be taken if removing the cover for cleaning.

**Disposal Requirements:**
This equipment should be disposed of at your local Recycling Center (Non-hazardous waste) when it has reached the end of its service life.
SAFETY AGENCY APPROVALS

ETL Listed: 2nd Edition

The standard for safety of Medical Electrical Equipment

Conforms To: UL STD 60601-1 with respect to Electrical Shock, Fire and Mechanical Hazards

Certified To: CAN/CSA STD C22.2 No. 601.1

CE Mark:

Class 1 equipment (Europe); Class 2 equipment (USA)

Optional 3rd Edition Compliant Systems available

ETL Listed: 3rd Edition

Class 1 equipment (Europe); Class 2 equipment (USA)

3rd Edition CE Mark:

Flame Resistance:
Unit components meet UL 94V-0 and Mattress components pass California117.


All Foam Aire™ mattresses are TB129, 1632 & 1633 compliant.

FDA Registration: FDA registered company as a manufacturer and as a contract manufacturer.

KAP MEDICAL’S quality system meets the requirements of:


Products are FDA listed.

Health Canada Medical Device Licensed.

ISO 13485 certified company.

Medicare coded (SADMERC).

Patents:
US & International Patents Pending

Certificate of Origin:
All products are manufactured in Corona, CA, USA.

MADE IN THE USA
SAFETY INSTRUCTIONS

- To avoid damaging and before operating your K-3 / K-4 series control unit, be certain the AC power available at your location matches the power requirements printed on the product identification label on the back of the unit.

- To avoid electric shock, always plug the power cord of the control unit into a properly grounded power source.

- Do not insert items into any openings of the control unit. Doing so may cause fire or electrical shock by shorting internal components.

- Do not spill liquids or food on or into the control unit. In the event of any spillage, immediately turn off the control unit and disconnect it from the power source. Return the control unit for servicing to a factory authorized service center.

- Care should be taken such that the controls on the footboard of the bed frames are not obstructed by the K-3 / K-4 series control unit.

- Care should be taken such that the control unit is not blocked, and kept away from any heat sources or radiators during the operation of the unit.

- Care should be taken such that the power cord of the control unit is not pinched, or has any objects placed on it. Make certain it is not located where it can be stepped on or tripped over.

- Do not attempt to service the control unit except as explained in this operating instruction manual. Contact factory for servicing instructions. Always follow operating and service instructions closely.

- Do not place the patient directly on the mattress without the top sheet. The breathable nylon or 4-way stretch top sheet is water repellent; highly vapor permeable, anti-microbial, low friction and low shear, quilted and reusable.

  **WARNING:** Before opening the control unit enclosure, make sure the control unit is turned off and unplugged from its power source. The control unit enclosure should only be opened by a factory authorized qualified service technician.

- Smoking by the patient or anyone else around or on system is prohibited. K-3 / K-4 series system uses room air for circulation through the mattress. Smoking will contaminate the system.
**BED RAIL ENTRAPMENT RISK NOTIFICATION**

NOTICE TO PATIENT, PATIENT’S FAMILY AND/OR PRIMARY DAY-TO-DAY CAREGIVER

DO NOT use this product without first completely reading and understanding this Bed Rail Entrapment Risk Notification and any additional instructional material such as owner’s manual, instruction sheets and on-product warnings supplied with this product. If you are unable to fully understand this Bed Rail Entrapment Risk Notification, the on-product warnings or any additional instructional materials, contact the patient’s health care provider and/or your equipment provider before using this equipment. Failure to understand and comply with the information contained in this Bed Rail Entrapment Risk Notification can result in serious injury or death.

<table>
<thead>
<tr>
<th>Entrapment within the bed rail</th>
<th>Entrapment under the bed rail</th>
<th>Entrapment between the bed rail and mattress</th>
<th>Entrapment between the head or foot board and the end of the mattress</th>
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<tbody>
<tr>
<td><img src="image1.jpg" alt="Image" /></td>
<td><img src="image2.jpg" alt="Image" /></td>
<td><img src="image3.jpg" alt="Image" /></td>
<td><img src="image4.jpg" alt="Image" /></td>
</tr>
<tr>
<td>Entrapment under the bed rail at the ends of the bed rail</td>
<td>Entrapment between split bed rails</td>
<td>Entrapment between the end of the rail and the side edge of the headboard or foot board</td>
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<td><img src="image5.jpg" alt="Image" /></td>
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<td><img src="image7.jpg" alt="Image" /></td>
<td><img src="image8.jpg" alt="Image" /></td>
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**RISK OF ENTRAPMENT**

Bed Rail Entrapment is a known risk in the use of bed’s equipped with bed rails.

Every patient is unique. Only the patient’s medical care provider is familiar with the patient’s unique medical condition and needs. Only the patient’s medical care provider and/or the dealer from whom you obtained this equipment, upon proper assessment of the patient’s medical condition and needs, can evaluate whether this equipment is appropriate for use by any particular patient and assist the patient, the patient’s family and/or the patient’s primary day-to-day caregiver in assessing the Risk of Entrapment.

Proper patient assessment, equipment selection, frequent patient monitoring, and compliance with instructions, warnings and this Bed Rail Entrapment Risk Notification is essential to reduce the risk of entrapment.

Accessories have been developed in the industry to reduce the openings in existing bed systems that could cause entrapment. Any modification through the use of accessories must be used in conjunction with proper patient assessment prior to intervention. For a full discussion on this topic, see the Hospital Bed Safety Workgroup’s “A Guide for Modifying Bed Systems and Using Accessories to Reduce Risk of Entrapment” found at [http://www.fda.gov](http://www.fda.gov).

Conditions such as restlessness, mental deterioration and dementia or seizure disorders (uncontrolled body movement), sleeping problems, and incontinence can significantly impact a patient’s risk of entrapment. Pediatric patients or patients with small body size may also have an increased risk of entrapment.
BED RAIL ENTRAPMENT RISK NOTIFICATION

- Bed rails are intended to prevent an individual from inadvertently rolling out of bed, provide assistance to a patient when repositioning and to provide a sense of security. NEVER use bed rails for restraint purposes where "restraint" means preventing or hindering the patient within the bed from exiting the bed as they wish. Use of rails as a means of restraint significantly increases a patient's risk of entrapment.
- Bed rails are intended to be used as a pair in a bed system. When in use, both side rails must be in the up position, except when the patient is entering or exiting the bed. Use with one side rail up and one side rail down could create an increased risk of entrapment.
- Bed rails and/or their mountings should not be used if they are bent or otherwise deformed. Bent or deformed bed rails and/or bed rail mountings increase gaps and increase the risk of entrapment. DO NOT place pressure upon bed rails while moving the bed. Although bed rails are not rated to any specific patient weight limitation, the bed rails or their mountings may become deformed or broken if excessive side pressure is exerted on the bed rails.
- Mattress overlays or active therapeutic support surfaces (TSS), which support the patient on an air mattress or specialized foam layer, may present an increased risk of entrapment for some patients. The benefit of TSS product use must be weighed against the potential increased risk of entrapment. The risk judgment must be performed by a medical professional.

The U.S. Food and Drug Administration in partnership with the U.S. Department of Veterans Affairs, Health Canada’s Medical Devices Bureau and representatives from national health care organizations and provider groups, patient advocacy groups, and medical bed and equipment manufacturers including the Hospital Bed Safety Workgroup, a collection of experts from the United States FDA, health care professionals and manufacturers of hospital beds, published guidelines regarding body part dimensions as they relate to a bed system’s safety. These guidelines, “Hospital Bed System Dimension and Assessment Guidance to Reduce Entrapment” contain additional information on the risk of entrapment. Visit the FDA website at http://www.fda.gov and search for "bed rail entrapment" to learn about the risk of entrapment or to view the FDA guidelines document.

The above statements are not intended to be a complete or comprehensive list of all risks of entrapment. KAP Medical recommends that whenever bed products are used that the patient, the patient’s family and/or the patient’s primary day-to-day caregiver discuss entrapment risks with the patient’s medical care provider.
UNIT OVERVIEW
{Figure 1, Page 15}

These Air Therapy Systems are designed to provide continuous air therapy support at required patient comfort levels and are used to inflate an overlay mattress or replacement mattress system. The Thermoplastic 94V-0 fire retardant enclosure houses a blower, main PCB, display panel, a short circuit/over voltage protection with single/dual fuse, a quick connection and disconnection (CPR deflation) coupling connector (R) with ½” flow ports with RTPM (real time pressure monitoring) technology sensors., and a 10’ to 14’ (305cm to 427 cm) long detachable 16 AWG hospital grade power cord (Q).

Unit Label Location(s):

K-3 AIRE-ZONE™ / K-4 D³X™ (DecubeX™)

K-3oem EZ-AIRE™ / K-4oem AIRE-FLOAT™
Unit Display Labels:
Refer to the "Explanation of Symbols Used" chart on page 13 for a cross reference of Display Key descriptions.
# EXPLANATION OF SYMBOLS USED ON THIS DEVICE

Not all features included with each model.

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>SYMBOL</th>
<th>EXPLANATION</th>
</tr>
</thead>
</table>
| POWER (SB)             | ![Power Symbol] | Turns unit On / Off.  
Green = On  Orange = Standby |
| SOFT / FIRM (K)        | ![Soft/Firm Symbol] | Up or Down key adjusts patient comfort pressure levels.                      |
| PLUS / MINUS (L)       | ![Plus/Minus Symbol] | Adjust “+/-” to set various therapy times and patient settings.               |
| SET-UP (H)             | ![Set-Up Symbol] | Set Patients height and weight.                                              |
| MODE (M)               | ![Mode Symbol] | Select between Therapy Modes. (K-3, K-4, K-4oem)                             |
| SELECT (S)             | ![Select Symbol] | Select between Therapy Modes. (K-3oem)                                       |
| LOCK OUT (LO)          | ![Lock Out Symbol] | Locks out all control unit functions to prevent tampering. (Max Inflate still available on K-3 & K-4) |
| PULSE (N) (WAVE)       | ![Pulse Symbol] | Selects Pulsation mode on. Continuous Low Air Loss during Pulse mode.        |
| PAN (Y)                | ![Pan Symbol] | Selects Pan mode on. Continuous Low Air Loss during Pan mode.               |
| STATIC (T)             | ![Static Symbol] | Selects Static Therapy mode. Continuous Low Air Loss during Static mode.    |
| ALTERNATING PRESSURE (AP) | ![A/P Symbol] | Selects A/P mode. Continuous Low Air Loss during Pulse mode.                |
| 10 MIN A/P (D)         | ![10 Min A/P Symbol] | Default A/P -Preset 10 min Alternating Pressure Therapy. Continuous Low Air Loss during A/P mode. |
| FOWLER (U)             | ![Fowler Symbol] | Fowler Mode. The pressure will increase to prevent the patient from bottoming out. |
| MAX Inflate (W)        | ![Max Inflate Symbol] | Inflates mattress rapidly (15 minute timer) Continuous Low Air Loss during A/P mode. |
| POWER FAIL (PF)        | ![Power Fail Symbol] | In the event of power failure or if the hose is disconnected, an audio/visual alarm will sound. |
| LOW PRESSURE (LP)      | ![Low Pressure Symbol] | Indicates the point of attachment of the equipment to earth (Grounding Point). |

- Attention: Instructs end user / care giver / operator to refer to the manual.
- Indicates that the degree of protection against electrical shock is TYPE BF.
- Not for use in presence of flammable anesthetics.
- Consult Instructions for Use.
- Waste electrical and electronic equipment (recycle).
- Risk of electrical shock. Do not remove back cover.
### EXPLANATION OF SYMBOLS USED ON THIS DEVICE (CONTINUED)

Not all features included with each model.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Symbol" /></td>
<td>No Sharp Objects</td>
</tr>
<tr>
<td><img src="image2" alt="Symbol" /></td>
<td>Low Heat Setting</td>
</tr>
<tr>
<td><img src="image3" alt="Symbol" /></td>
<td>Do Not Dry Clean</td>
</tr>
<tr>
<td><img src="image4" alt="Symbol" /></td>
<td>Do Not Bleach</td>
</tr>
<tr>
<td><img src="image5" alt="Symbol" /></td>
<td>No Open Flames</td>
</tr>
<tr>
<td><img src="image6" alt="Symbol" /></td>
<td>Normal Cycle</td>
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<td><img src="image7" alt="Symbol" /></td>
<td>Do Not Iron</td>
</tr>
<tr>
<td><img src="image8" alt="Symbol" /></td>
<td>Latex-Free</td>
</tr>
<tr>
<td><img src="image9" alt="Symbol" /></td>
<td>Bolstered Mattress</td>
</tr>
<tr>
<td><img src="image10" alt="Symbol" /></td>
<td>Even Bolstered Mattress</td>
</tr>
<tr>
<td><img src="image11" alt="Symbol" /></td>
<td>Bolster Deflate</td>
</tr>
<tr>
<td><img src="image12" alt="Symbol" /></td>
<td>Mattress Deflate</td>
</tr>
<tr>
<td><img src="image13" alt="Symbol" /></td>
<td>Air Pad Deflate</td>
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<td><img src="image14" alt="Symbol" /></td>
<td>CPR Deflate</td>
</tr>
<tr>
<td><img src="image15" alt="Symbol" /></td>
<td>Length Expansion Regulator</td>
</tr>
<tr>
<td><img src="image16" alt="Symbol" /></td>
<td>Width Expansion Regulator</td>
</tr>
<tr>
<td><img src="image17" alt="Symbol" /></td>
<td>Universal Mattress Regulator</td>
</tr>
<tr>
<td><img src="image18" alt="Symbol" /></td>
<td>Heel Zone Regulator</td>
</tr>
</tbody>
</table>
Self-contained mattress replacement system / mattress overlay system (B) with easily detachable components for cleaning. Detachable urethane coated, 70 Denier nylon taffeta or Dartex or 2-or-4-way stretch, flame retardant / water repellent, mildew resistant, low friction and low shear, 5” or 8” high (inflated) detachable lateral tubular air cushions (T) (16~22), removable air cushions. Detachable zippered or strapped highly breathable urethane coated, 70 Denier nylon or Dartex or 2-or-4-way stretch, flame retardant / water repellent, highly vapor permeable, anti-microbial, low friction and low shear quilted reusable top sheet (E). 2” safety air pad or convoluted safety foam pad enclosed in the base (C) to support the patient in the event of loss of air pressure in the mattress. The mattress has hose assembly (V) with easy to use quick connect and disconnect connector coupling (R).
**Mattress Weight Capacity:**

⚠️ **NOTE:** See bed frame manufacturer’s manual for bed frame weight rating.

K-3 & K-4 SERIES systems are used for patients who weigh between 35 lbs. and 1000 lbs. (15 Kg. and 455 Kg.)

- Replacement Mattress Standard System: 36" wide, 35-360 lbs. (15-163 Kg.)
- Bariatric Mattress: 1000 lbs. (455 Kg.) maximum
- Raised side Bolster Mattress: 360 lbs. (163 Kg.)
- Bariatric Raised side Bolster Mattress: 1000 lbs. (455 Kg.)
- Foam Aire Mattress: 360 lbs. (163 Kg.)
- Universal Mattress (UM): 360 Lbs. (163 Kg.)
- Expandable Mattress (XM): 1000 lbs. (455 Kg.)

⚠️ **WARNING:**

It is highly recommended that the K-3 / K-4 series SYSTEM always be installed on medical bed frames that are equipped with standard hospital side rails or assist rails. Please raise all 4 side rails on the bed and lock them in position after the patient is on the mattress. Health care professionals assigned to each case should make the final determination whether side or assist rails are warranted after assessing patient risks of entrapment and falls in accordance with State patient restraint legislation or facility interpretation of such legislation.

Check that all air hoses and power cord are clear of moving bed components before placing a patient on the bed and that the mattress system is fully inflated. Operate all bed frame motorized functions through their full range of motion to be certain that there is no pulling, interference or pinching.

Mattress MUST fit bed frame and side rails snugly to prevent patient entrapment. See (Figure 1, Page 15)

**UNPACKING THE SYSTEM**

⚠️ Note: When opening the large system box or the small control unit box, ensure that the object used to open the box does not penetrate and damage the components inside.

**Components Supplied:**

- Complete Replacement Mattress System Box
  - 1 Control Unit box & 1 Mattress
- Overlay Mattress System Box
  - 1 Control Unit & 1 Overlay Mattress
- Control Unit Box
  - 1 Control Unit
  - 1 Operating Instruction Manual
  - 1 Power Cord
- Foam Aire Mattress Box
  - 1 Foam Aire Mattress
  - 1 Control Unit (if ordered with Mattress)
  - 1 Hose Assembly (if ordered with Mattress)

**Unpacking and Inspection:**

- Before accepting and signing for your shipment, please inspect the box or boxes for external and internal damages. Verify that the number of boxes listed on the packing list matches the number of boxes received. Verify that no components in your shipment are damaged or missing. Report any missing boxes, components and or damages to the transportation carrier immediately.
**Mattress System Set-Up**

⚠ **Note:** Make sure that the hose end of the mattress is towards the foot of the bed.

⚠ **Note:** When installing the KAP Medical mattress system, do not exceed the manufacturers rated weight of the mattress or the bed frame. See the bed manufacturer’s manual for bed frame weight rating.

⚠ **Note:** Make sure the CPR, bolsters and air pad plugs are connected and locked in place before inflating the mattress.

⚠ **Note:** Care should be taken such that the air inlet vent on the control unit is not covered, and the control unit is not placed on the floor in such a manner that it is a hazard for flow of traffic or lowering of bed frame.

**Notes:**
- Before using the KAP Mattress System, please remove current mattress, mattress replacement systems or overlay systems from the bed.

**Overlay Mattress System:**
- When using the Overlay mattress system, care should be taken such that the overlay is placed directly on an existing 3" to 5" foam mattress.
- Unroll the Overlay and place it on the foam mattress.
- There are two elastic straps, one at the head and the other at the foot section. Two long straps on one side and two short straps with buckles on the other side of the overlay. Insert head and foot elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the short strap on the other side using the buckle.

**Replacement Mattress System:**
- When using the replacement mattress system, care should be taken such that the mattress is placed directly on the bed frame. *(Figure 1,(B), Page 15)*
- Unroll the Replacement Mattress and place it on the bed frame (BF).
- There are ten nylon black straps with buckles (F), two straps at the head of the mattress, two on the foot of the mattress, and three on each side of the mattress. Loop each strap around the bed deck and secure using the buckle (D-ring). Note: Make sure Head, Knee and Foot sections of the bed can be raised and that straps are secured to the deck and not to the frame. Once the mattress is strapped, tuck the exposed straps under the mattress.
- Pull out the hanger on the back of the control unit (A) and suspend the control unit from the footboard (FB) of the bed (BF). If the bed you are using does not have a footboard, place the control unit (A) on its base (not on its back where the filter is located) on a flat surface in front of the bed near the foot of the bed frame (BF).
- Uncoil the power cord (Q) and plug the cord into the appropriate AC power source (X), which is properly grounded. Plug the other end of the power cord into the control unit and press it in place.

⚠ **Note:** Care should be taken such that the power cord of the control unit is not pinched, or has any objects placed on it. Ensure it is not located where it can be stepped on or tripped over. Make sure the control units power inlet connection is positioned to easily disconnect the power cord from the unit.

- Connect the mating connector (R) on the mattress hose assembly (V) into the insert on the control unit connector and lock it in place.

⚠ **Note:** ELITE Series- Make sure the magnetic connector has a good connection. Also, care should be taken such that the mattress hose is freely suspended without being pinched or kinked.
- Make sure the CPR, bolsters and air pad plugs are connected and locked in place before inflating the mattress.
- Make sure the left and the right side safety air bolsters (if available) as well as the bottom safety air pad are fully inflated and up to the correct operating pressure and firm prior to placing a patient on the mattress.
- Make sure the heel regulator valves/knobs in the Universal Mattress (UM) and Expandable Mattress (XM) are in proper position.

**OPERATING INSTRUCTIONS**

⚠️ Note: Not all functions are available on all models. *(Display labels – page 12 & Figure 1- Page 15)*

**INITIAL POWER UP**

- (K-3 ELITE, K-4 ELITE) During initial power up when power cord (Q) is plugged into the power source (X), the control unit will display “KAP MEDICAL, LOW AIR LOSS SYSTEM” on K-3 system and “KAP MEDICAL, ALTERNATING LOW AIR LOSS SYSTEM” on K-4 system for a brief moment and then goes through a system initialization routine for a few seconds. Once the routine is completed the display (D) will read “KAP MEDICAL STAND BY”.

- (K-3oem, K-4oem) During initial power up when power cord (Q) is plugged into the power source (X), the control unit will display illuminated amber light indicating that the unit is in Standby mode.

**POWER (SB)**

- Press Power key, the (amber) Standby LED will turn off and the (green) LED turns on. The blower will turn on.

**LOW AIR LOSS**

- Continuous Low Air Loss relief is provided at all times when the K-3 or K-4 series system is powered on.

**MAX INFLATE (W)**

- Press MAX Inflate (W) key, the (green) LED will turn on. This mode is used to rapidly inflate the mattress. During this mode a series of beeps will sound every 3 minutes as a reminder that MAX Inflate mode has been activated. During this mode, the entire mattress will be pressurized to 35 ± 5 mmHg. The mattress (B) will inflate to its normal size within 60 seconds. MAX Inflate mode will deactivate after 15 minutes.

**THERAPY (STATIC) (T)**

- To set Static mode press (S) Select key (K-3oem model only) or (M) Mode key until the Static mode indicator light illuminates and the screen displays THERAPY. The unit will go into “THERAPY” mode.

- In THERAPY mode all the air cushions in the mattress will be maintained at the same pressure and can be adjusted to the desired patient comfort control level.
PATIENT COMFORT CONTROL LEVEL (K)

- The system is designed for patients weighing between 35 ~ 1000 lbs. (15 Kg. ~ 455 Kg.). By pressing the Comfort Control Keys (K) towards the SOFT position (down arrow) reduces the pressure setting, and the FIRM position (up arrow) increases the pressure. The patient comfort pressure ranges from SOFT 6 \pm 5 mmHg to FIRM 32 \pm 5 mmHg. Depending on the desired patient comfort level, the controller will increase or decrease the speed of the air blower to provide the appropriate air flow into the mattress to maintain the desired pressure in the mattress.

- Once the mattress is inflated to its normal size, lay the patient on the mattress and set the Comfort Control Key(s) (Soft/Firm) to the desired patient comfort level. Wait 2 minutes for the mattress pressure to stabilize and verify the appropriate pressure required to support the patient by performing a simple "four finger check". Make sure that the patient is lying flat on their back in the center of the mattress. Place four fingers between the air cushions directly underneath the sacral region of the patient’s body. There should be a minimum of 3 to 4 finger width clearance between the bottom of the patient and the safety foam base, (on an overlay there is no safety foam base). Repeat this procedure until the desired patient comfort pressure is achieved.

ALTERNATING PRESSURE (AP) (K-4 models only)

- To set Alternating Pressure (AP mode), press the (M) Mode key to light up the appropriate AP times 5, 10, 15 or 20 minutes. (K-40em model)
  - To adjust the low pressure zone of the Alternating Pressure therapy, follow the next steps:
  - (Perform in Stand-By mode) Press and hold “Mode” & “Fowler” keys until unit beeps. (Approx. 3 seconds).
  - 7-segment will display “0” (0% mmHg of high pressure setting) or “5” (50% mmHg of high pressure setting)
  - To end routine and accept setting, press “Power” key.
  - Routine will auto time out in 30 seconds if no key is pressed.
  - Turn on control unit and select Alternating Pressure mode.

- To set Alternating Pressure (AP mode), press the (AP) key, using the (L) “+/-” key select the desired AP time, 1 to 99 minutes. (K-4 Elite model)
  - To adjust the low pressure zone of the Alternating Pressure therapy, follow the next steps:
  - During Alternating Pressure therapy, press the “Mode” key; A/P settings will be displayed on the screen.
  - Use the (L) “+” and “-” keys to adjust the Low AP percentage value (10% to 75% of high pressure setting)
  - Unit will time out and setting will be set automatically within 15 seconds.

- In AP mode, alternate air cushions will inflate to the patient comfort pressure while those cushions between the inflated air cushions will deflate.
DEFAULT 10 MIN ALTERNATING PRESSURE

- Press (D) key to set 10 min auto default (AP) cycle. (K-4 Elite model only)

PULSE (N) (WAVE)

- (K-3 Elite and K-3oem models) This mode is selected by pressing the (S) Select key until the pulse LED lights up (in K-3oem model) or by pressing the (N) Pulse key (K-3 Elite model).

- During Pulse mode, the pressure in each air cell will be decreased by 20% for 5 seconds and then increase to the prior pressure setting for 30 seconds. This cycle will continue every 30 seconds as long as pulsation is enabled. For model K-3, use the (L) "+/-" key to select the desired pulsation interval time.

- (K-3 Elite model only) To adjust the low pulse time interval for Pulse therapy, follow the next steps:
  - (Perform in Stand-By mode) Press and Hold "Pulse(N)" and "Patient set up(H)" keys until unit beeps and displays Pulse menu (Approx. 3 seconds).
  - Use the (L) "+/-" keys to adjust low pulse time (from 4 to 90 seconds).
  - Routine will time out in 20 seconds from the last key pressed, or press the Power key to end routine.

MASSAGE

- (K-4 Elite model only) To set Massage mode, press Mode key (M) until the display reads “MASSAGE”.

- In this mode the patient receives rapid alternating pressure (rapid high pressures and low pressures).

MULTI-THERAPY

- (K-4 Elite and K-3 Elite models only) To set Multi therapy mode, press Mode key (M) until the display reads “MULTI”. Use the TIME ADJUST keys (L) "+/-" to set the desired “Multi” therapy time.

- Multi-therapy is the combination of Static, A/P, Pulse and Massage therapies in K-4 Elite model and combination of Static and Pulse therapies in K-3 Elite model.

MODE KEY (M)

- The Mode key is used to cycle between therapy modes in K-4 Elite, K-3 Elite and K-4 oem models. In addition to cycling between therapy modes, in K-4 Elite and K-3 Elite models the Mode key is used to configure the Patient Set-Up function. In K-4 Elite model only, the Mode key is also used to access the Alternating Pressure settings.

PAN (Y)

- (K-3 only) This mode is selected by pressing the (N) Pan key. Pan mode enables for quick deflation of center section of mattress for bed pan operation.
FOWLER (F)

- (K-3oem and K-4oem models) This mode is selected by pressing the (U) Fowler key if the patient is in upright mode / fowler position (when the bed frame is articulated to fowler position of 35° or greater). In upright mode the unit will maintain 80% more pressure than the set pressure (up to max to 32 ± 5 mmHg) in the torso section of the mattress in order to keep the patient supported without the patient being bottomed out. Auto fowler is an option on these models.

- (K-3 Elite and K-4 Elite models) This mode is selected by pressing the (M) Mode key until the Fowler mode is selected if the patient is in upright mode / fowler position (when the bed frame is articulated to fowler position of 35° or greater). In upright mode the unit will maintain 80% more pressure than the set pressure (up to max to 32 ± 5 mmHg) in the torso section of the mattress in order to keep the patient supported without the patient being bottomed out. Auto fowler is standard on these models.

- AUTO FOWLER. When the head section of the bed frame is articulated to 35° or 45° (35° or 45° Auto Fowler are available), the unit will automatically go into fowler mode without the caregiver’s or the patient’s assistance and maintain pressures in the mattress as explained above. This is achieved by a low power wireless sensor in the mattress.

PATIENT SET-UP (H)

- (K-4 Elite and K-3 Elite models) Press the Patient SET-UP (H) key and follow the on screen instructions to set the patients height and weight. Patient comfort settings will be automatic when done with settings. To exit automatic patient comfort settings, press the Soft or Firm (K) pressure comfort keys to adjust comfort pressure manually.

LOCK OUT (LO)

- Control unit functions (including power switch) can be completely locked out from being tampered with by simply pressing and holding the Lock key until the light comes on (approximately 5 seconds). To deactivate, simply press and hold the lock key until the light turns off.

- Max Inflate mode is still functional in Lock Out mode in K-3, K-4 Elite models only.

ALARM SILENCE (AS)

- Mutes the audio alarm.

POWER FAIL (PF)

In the event of a power outage, the microprocessor will activate an audiovisual signal to alert the caregiver by flashing the amber “POWER FAIL” LED and turning on the buzzer. Once the power is restored to the control unit the audio/visual signal will cease and unit resumes operating its set mode.

LOW PRESSURE (LP)

In the event of hose disconnection or other problem that causes major air leakage, the Micro-controller will activate an audio/visual signal to alert the caregiver by flashing “LOW PRESSURE” on the digital display (K-3 Elite and K-4 Elite models) or flashing the amber “LOW PRESSURE” LED (K-3oem and K-4oem models) and turning on the buzzer. Once the low-pressure problem is fixed, the audio/visual signal will cease and the unit will resume its operating set mode.

BOLSTERED MATTRESS (RSB) & EVEN BOLSTERED MATTRESS (ESB)

The left and the right bolsters can be manually deflated by disconnecting the bolster deflate connector which is at the bottom right corner (patient’s right) of the mattress.

⚠️ PLEASE NOTE: Before using the mattress please make sure that the bolster deflate connector is re-connected back into the bolster deflate valve.
BOTTOM SAFETY AIR PAD (OPTIONAL)

The bottom safety air pad can be manually deflated by disconnecting the air pad deflate connector which is at the bottom right corner (patient’s right) of the mattress.

⚠️ PLEASE NOTE: Before using the mattress please make sure that the air pad deflate connector is re-connected back into the air pad deflate valve.

FOAM AIRE MATTRESS AS A NON-POWERED MATTRESS

Foam Aire mattress can be used as a non-powered mattress without the control unit. Before using the mattress connect the control unit to the mattress and inflate the mattress by setting the control unit comfort level to 5 (K-3oem, K-4oem) setting of 22mmHg (K-3, K-4). Once the control unit fills the mattress and the pressure stabilizes then turn the unit off and disconnect the hose assembly from the unit and store the control unit and the hose assembly in a storage area.

FOAM AIRE MATTRESS AS A POWERED MATTRESS

If need arises the Foam Aire mattress can be converted into a powered mattress by simply connecting the control unit to the mattress using the hose assembly provided with the system. For operating instructions in powered mode please refer to OPERATING INSTRUCTIONS ABOVE.

HEEL ZONE REGULATOR (UNIVERSAL AND EXPANDABLE MATTRESSES)

Heel Zone Pressure can be adjusted independently from the rest of the mattress zones, if desired. The Heel zone, which has four air cells, can be adjusted to four different pressure settings.

To set the required pressure in the Heel Zone, turn the Heel Knob to the desired position. Match the SET NUMBER to the metal peg at the right of the Heel knob.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRM (1)</td>
<td>= 27 ± 4 mmHg</td>
</tr>
<tr>
<td>MEDIUM FIRM (2)</td>
<td>= 23 ± 4 mmHg</td>
</tr>
<tr>
<td>MEDIUM SOFT (3)</td>
<td>= 14 ± 4 mmHg</td>
</tr>
<tr>
<td>SOFT (4)</td>
<td>= 4 ± 2 mmHg</td>
</tr>
</tbody>
</table>

The pressures shown above are for a mattress at the firmest Control Unit setting. Softer settings will result in correspondingly lower Heel Zone pressures.

SAC™ Support Air Cushion (K-140)

SAC™ (Optional) foot support air cushion can be used to support patient’s feet and to provide zero interface pressures in the heel area.
UNIVERSAL MATTRESS (UM)

Mattress has ability to expand in height from 8” or 10” and length to 72”, 76”, 80” and 84” by connecting supplemental attached air cells. The UMS Mattress is supplied as an 84” mattress. To reduce the mattress size to an 80” mattress, unzip the air cell cover and unplug the very last air cell. This reduction process can be repeated to achieve a 76” mattress or a 72” mattress. There is no authorized reduction of the mattress size below a 72” mattress.

The Universal Mattress (UM) has a four (4) position valve located at the patient’s right, foot end of the mattress. This valve and the associated supplemental bladders (at base of mattress) allow the UM mattress to be inflated.

1. To inflate mattress to a 10” mattress, rotate the valve selector to position #3.
2. To inflate only the foot end of the mattress to a 10” mattress, rotate the valve selector to position #2.
3. The mattress can be used for patient transportation by rotating the valve selector to position #1.
4. Valve selector position #4 will deflate the supplemental bladders and return the mattress to an 8” mattress.
5. Disconnect / Connect up to three (3) additional air cells to achieve mattress lengths from 72” to 84”.

To deflate the Universal Mattress (UM), set the valve selector to position #4 and pull the hose (V) from the control unit flange connector.

EXPANDABLE MATTRESS (XM)

Mattress has ability to expand in width (36”, 39”, 42” and 48”) and in length (80”, 84” and 88”) by using the mattress expansion regulator valves.

The Expandable Mattress (XM) has two (2), four (4) position valves; one located in the right and the other in the left side, foot end of the mattress. The width expansion regulator valve is located at the patient’s right, foot end of the mattress and the length expansion regulator valve is located at the patient’s left, foot end of the mattress. These valves allow the mattress to expand in width and length based on selected setting.

1. To inflate mattress to 39”, 42” in width, rotate the valve selector to position #2.
2. To inflate mattress to 48” in width, rotate the valve selector to position #3.
3. To inflate mattress to 36” in width, rotate the valve selector to position #4.
4. Position #1 on valve selector is not used (will keep mattress at 36” in width).
5. To inflate mattress to 84” in length, rotate the valve selector to position #2.
6. To inflate mattress to 88” in length, rotate the valve selector to position #3.
7. To inflate mattress to 80” in length, rotate the valve selector to position #4.
8. Position #1 on valve selector is not used (will keep mattress at 80” in length).
To deflate the Expandable Mattress (XM), set the valve selector to position #4 on both expansion regulator valves and pull the hose (V) from the control unit flange connector.

When expanding or contracting the Expandable Mattress (XM), make sure to tighten or loosen the straps on the top sheet accordingly to the mattress width.

**RECOMMENDED PRESSURE SETTINGS (ALL MATTRESSES)**

1. For rapid inflation of the mattress, press (W) “MAX Inflate” key (green LED turns on).

2. For extra firm support during patient ingress or egress, patient wound care, patient turning or patient cleaning it is recommended to set the mattress pressure to maximum pressure by pressing (W) "MAX Inflate" key.

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**Air Mattress.**

a. To deflate the mattress for a CPR procedure, pull the hose (V) from the control unit connector (press connector latches in OEM series then pull connector). If the mattress is equipped with bolsters and/or air pad, unplug the corresponding deflate plug located at the foot end of the mattress.
b. In case of CPR emergency and quick deflation of the mattress, unzip the top sheet from the foot to the head by pulling the zipper located by the patient right foot near the exit location of the hose assembly; or on some mattresses by unfastening the top sheet straps from the side of the mattress. To disconnect a few air cushions which are directly below the patient’s chest from the mattress, press the quick release button on the connector with one hand and pull the air cushion connector with the other.

2. **Foam Aire Mattress.**

   a. To deflate the FOAM AIRE mattress for CPR procedure, disconnect the mattress deflate connector which is attached to the “DEFLATE” tag from the deflate valve. If connected to a control unit, press the quick release buttons on both the coupling bodies and simultaneously pull the hose from the control unit flange connector.

   ! PLEASE NOTE: Before using the mattress please make sure that the mattress deflate connector is re-connected back into the mattress deflate valve.

3. **Universal Mattress (UM)**

   a. To deflate the Universal Mattress (UM) for CPR procedure, set the valve selector to position #4, pull the hose (V) from the control unit connector and disconnect the air pad plug labeled “deflate” located at the foot end of the mattress. If the mattress is equipped with an air pad, unplug the air pad deflate plug located at the foot end of the mattress.

   (K-3UM/K-4UM labeling example, K-3oemUM/K-4oemUM not shown)

   b. In case of CPR emergency and quick deflation of the mattress, unzip the top sheet from the foot to the head by pulling the zipper located by the patient right foot near the exit location of the hose assembly; or on some mattresses by unfastening the top sheet straps from the side of the mattress. To disconnect a few air cushions which are directly below the patient’s chest from the mattress, press the quick release button on the connector with one hand and pull the air cushion connector with the other.
4. **Expandable Mattress (XM)**

   a. To deflate the Expandable Mattress (XM), set the valves selector to position #4 and pull the hose (V) from the control unit connector. If mattress is equipped with an air pad disconnect the air pad plug labeled “deflate” located at the foot end of the mattress. If the mattress is equipped with an air pad, unplug the air pad deflate plug located at the foot end of the mattress.

   (K-3XM/K-4XM labeling example, K-3oemXM/K-4oemXM not shown)

   b. In case of CPR emergency and quick deflation of the mattress, unzip the top sheet from the foot to the head by pulling the zipper located by the patient right foot near the exit location of the hose assembly; or on some mattresses by unfastening the top sheet straps from the side of the mattress. To disconnect a few air cushions which are directly below the patient’s chest from the mattress, press the quick release button on the connector with one hand and pull the air cushion connector with the other.

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**PATIENT TRANSPORTATION**

1. **Air Mattress.**
   a. To transport a patient without removing the patient off the bed, turn off the control unit, disconnect the power cord from the power source and roll it up on the control unit securely.
   b. The mattress will deflate within a few seconds after the control unit has been turned off. The bolster will remain inflated.
   c. The mattress has a 2” convoluted foam pad or optional 2” air pad or bottom bolsters to provide support to the patient when the mattress is deflated. It is not recommended to keep the patient on the mattress for long periods of time when the mattress air cushions are deflated.

2. **Foam Aire Mattress**
   a. To transport a patient without removing the patient off the bed. If used in powered mode, turn off the control unit, disconnect the power cord from the power source and roll it up on the control unit securely.
   b. The Foam Aire mattress will remain firm to transport the patient.

3. **Universal Mattress (UM):**
   a. To transport a patient without removing the patient off the bed, place valve selector on position #3.
   b. When unit pressure stabilizes in Max Inflate mode, place valve selector on position #1.
   c. Turn off the control unit, disconnect the power cord from the power source, and roll the power cord up on the control unit securely.
   d. The mattress will deflate but the bottom air bladders will remain inflated.
   e. Patient can now be transported.

4. **Expandable Mattress (XM):**
   a. To transport a patient without removing the patient off the bed, turn off the control unit, disconnect the power cord from the power source and roll it up on the control unit securely.
   b. The mattress will deflate within a few seconds after the control unit has been turned off. If expandable cushions are filled, the expandable cushions will remain inflated.
   c. The mattress has a 2” safety convoluted foam pad or optional 2” air pad to provide support to the patient when the mattress is deflated. It is not recommended to keep the patient on the mattress for long periods of time when the mattress is deflated.
CLEANING PROCEDURE

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

⚠️ WARNING: DO NOT HEAT, STEAM AUTOCLAVE, OR IMMERSE THE CONTROL UNIT IN LIQUIDS

Control Unit:

1. Wear eye goggles and protective gloves before starting the cleaning procedure.

2. The following germicidal detergents / disinfectants are recommended by the EPA as hospital disinfectants.
   - b. Quaternary Detergent-Disinfectant by Airkem Professional Products, Division of Ecolab, Inc., Ecolab Center, St. Paul, Minnesota. EPA registration number: EPA # 42964-5.
   - c. Hi-Tor Germicidal Detergent by Huntington Laboratories, Inc. Huntington, Indiana. EPA registration number: EPA # 303-91.

   ⚠️ Note: A spray bottle of fresh disinfectant / detergent solution should be prepared daily to clean the control unit.

3. Prepare the required amount of solution by following the preparation instructions provided with the germicidal detergent / disinfectant solution.

4. Pour required amount into a spray bottle.

5. Use a brush or cloth to 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 / detergent solution. Using a damp cloth, wipe down the sprayed surface cleanly. **Note: Do not spray excess amount of solution on the control unit.**

6. Once the control unit is clean, wipe the unit, power cord, cord receptacle, and the cord plug with a clean dry cloth.

7. Place the control unit to dry in a cool, dry area for an hour before operating or storing the unit. If the control unit is not used immediately, place the control unit in a plastic bag and store it in a storage area.

8. After the cleaning operations are completed, remove and dispose the protective gloves appropriately. Wash your hands thoroughly with antibacterial soap.

Air Mattress:

1. Wear eye goggles and protective gloves before starting the cleaning procedure.

2. Follow steps 2 through 4 above to prepare disinfectant solution.

3. Using a damp cloth, wipe down the air cushions and the mattress base. Once the air cushions and the base are clean, wipe them down with a dry cloth.
4. Air cushions should be washed periodically; top sheet will require more frequent washing. Set wash cycle to "heavy load" with warm water. Once the water is full, add manufacturer- suggested quantity of laundry detergent and/or standard hospital disinfecants. If the air cushions or the top sheet becomes soiled with human waste or blood, clean immediately by wiping down. Use hospital recommended laundry detergent and/or disinfectant per manufacturer’s instructions. **Note: Use non-chlorine bleach detergent.**

5. Shake cushions gently to remove excess water from inside the air cushions. Dry the cushions/top sheet on the lowest settings on the dryer until completely dry.

6. Leave the mattress to dry in a cool, dry area for an hour before using or storing. If the mattress is not used immediately, roll the mattress and insert it into a plastic bag and store it in a storage area.

7. After the cleaning operations are completed, remove and dispose the protective gloves appropriately. Wash your hands thoroughly with antibacterial soap.

**Foam Aire Mattress (FAM):**

*Note: The Foam Aire mattresses have a Kevlar fire retardant sleeve (sock) barrier inside the cover. Care should be taken if removing the cover for cleaning.*

Before attempting to clean the mattress, remove the bedding from the mattress. The mattress cover (top sheet) can be cleaned following the steps below.

1. Wear eye goggles and protective gloves before starting the cleaning procedure.

2. Follow steps 2 through 4 in control unit cleaning procedure above to prepare disinfectant solution.

3. Clean the top and bottom mattress cover using the prepared disinfectant solution and refer to step 4 of the above Air Mattress cleaning instructions for washing instructions.

4. Wipe dry with a clean cloth and allow to air dry as needed.

**Universal (UM) and Expandable Mattresses (XM):**

To clean the UMS or XMS mattress please follow the Air Mattress cleaning steps described above and assure removal of the UM or XM valve(s) located at the foot end of the mattress. To reattach the UM or XM valve, reconnect the valve(s) using the color coded connectors.

1. Wear eye goggles and protective gloves before starting the cleaning procedure.

2. Follow steps 2 through 4 in control unit cleaning procedure above to prepare disinfectant solution.

3. Clean the top and bottom mattress cover using the prepared disinfectant solution and refer to step 4 of the above Air Mattress cleaning instructions for washing instructions.

4. Wipe dry with a clean cloth and allow to air dry as needed.

**CARE AND STORAGE**

1. When the control unit is not in use, turn off the unit, disconnect the power cord from the power source and wrap the cord around the control unit. Place the control unit and the power cord in a plastic bag and cable tie it to keep the unit dust-free.

2. Fold or roll the previously dried air mattress and place the mattress in a plastic bag. Cable tie the plastic bag to keep the mattress dust free. Cover and store the Foam Aire mattress in a flat position.

3. Store the control unit in a storage area designated for medical electronic product storage.
**TROUBLESHOOTING GUIDE**

⚠️ THE FOLLOWING INFORMATION IS FOR FACTORY AUTHORIZED SERVICE FACILITIES AND FACTORY QUALIFIED SERVICE PERSONNEL ONLY.

KAP MEDICAL can provide technical support to factory qualified technical personnel. Contact KAP MEDICAL service department for more information.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
</table>
| A. Mattress not inflating properly | 1. Mattress hose disconnected  
2. Air hose kinked or split  
3. Major leak in the air cushion or overlay pad  
4. Kinked or split manifold  
5. Control unit not working  
6. Blower malfunction | 1. Connect hose connectors and lock them in place  
2. Unkink hose or replace split hose  
3. Replace leaking air cushion or overlay pad  
4. Unkink manifold or replace split manifold  
5. Send control unit back to factory for repair  
6. Send control unit back to factory for repair |
| B. No Power | 1. Control Unit OFF  
2. Power cord disconnected  
3. No power in the power source  
4. Power outage  
5. Blown fuse | 1. Check power source and turn unit on  
2. Connect cord to power source  
3. Check power source has power and turn it “ON”  
4. Wait till the power source has power  
5. Send control unit back to factory for repair |
| C. Control Unit not responding | 1. Unit locks up | 1. Unplug power cord from control unit, wait 15 minutes and plug cord back to reset the control unit |

**PREVENTIVE MAINTENANCE**

It is important to periodically test the control unit to verify its functionality. If the units air pressure reading is out of specification it can result in poor or reduced patient support.

⚠️ PLEASE CLEAN FILTER EVERY 3 MONTHS OR WHENEVER DIRTY. Remove the 2 filter screws from the back of the unit and separate filter foam. Wash filter foam using soap and water. Dry and replace filter back on the unit and fasten screws.

⚠️ NOTE: All preventive maintenance service, performance and electrical tests, or repairs should be performed only by factory authorized and qualified technical personnel.

**ACCESSORIES**

K-140 (SAC): Foot (Heel) Support Air Cushion  


Call factory for additional accessories.

⚠️ Note: To place an order or for questions regarding KAP Medical’s Therapy Systems and its warranties, please call KAP MEDICAL customer service at 951 340 4360  
Email: sales@kapmedical.com or service@kapmedical.com
## CONTROL UNIT CALIBRATION AND SETTINGS

### K-3 ELITE & K-3 OEM SERIES

<table>
<thead>
<tr>
<th>Calibration (Control Unit must be in Stand-By mode and the mattress hose disconnected)</th>
<th>K-3 ELITE</th>
<th>K-3oem</th>
</tr>
</thead>
</table>
| • Press and hold “Alarm Silence”, “Soft” & “Firm” keys until unit beeps. (Approx. 3 seconds).  
• Unit will display calibration instructions. | • Press and hold “Alarm Silence”, “Mode” & “Lock” keys until unit beeps. (Approx. 3 seconds). Static and Pulse LEDs will flash.  
• Press “Select” key complete calibration and end routine. | |
| Auto Fowler Set-up (Control Unit must be in Stand-By mode) | • Place new Fowler Transmitter (in bed or external) to the flat position.  
• Press and hold “Patient Setup” & “Mode” keys until unit beeps. (Approx. 3 seconds).  
• To end routine without new fowler, press “Power” key.  
• Routine will auto time out in 2 minutes if no transmitter is detected. | • Place new Fowler Transmitter (in bed or external) to the flat position.  
• Press and hold “Fowler” & “Lock” keys until unit beeps. (Approx. 3 seconds). “L” will be shown on the 7-segment display.  
• Tilt transmitter/bed to Fowler position, unit beeps, all LEDs light up and unit returns to stand-by mode  
• To end routine without new fowler, press “Fowler” key.  
• Routine will auto time out in 60 seconds if no transmitter is detected. | |
| Low Pulse Time Set-up (Control Unit must be in Stand-By mode) | • Press and Hold “Pulse(N)” and “Patient set up(H)” keys until unit beeps and displays Pulse menu (Approx. 3 seconds)  
• Press the (L) “+/-” keys to adjust low pulse time (from 4 to 90 seconds)  
• Routing will time out in 20 seconds or press the Power key to end routine. | • Set-up not available on K-3oem model. (default time: 30 seconds pulse cycle and 4 seconds low pulse time) | |

### K-4 ELITE & K-4 OEM SERIES

<table>
<thead>
<tr>
<th>Calibration (Control Unit must be in Stand-By mode and the mattress hose disconnected)</th>
<th>K-4 ELITE</th>
<th>K-4oem</th>
</tr>
</thead>
</table>
| • Press and hold “Alarm Silence”, “Soft” & “Firm” keys until unit beeps. (Approx. 3 seconds).  
• Unit will display calibration instructions. | • Press and hold “Alarm Silence”, “Mode” & “Lock” keys until unit beeps. (Approx. 3 seconds). Static LED will flash for about 3-5 seconds.  
• Once Static LED stops flashing, press “Mode” key to complete calibration and end routine. | |
| Auto Fowler Set-up (Control Unit must be in Stand-By mode) | • Place new Fowler Transmitter (in bed or external) to the flat position.  
• Press and hold “Patient Setup” & “Mode” keys until unit beeps. (Approx. 3 seconds).  
• To end routine without new fowler, press “Power” key.  
• Routine will auto time out in 2 minutes if no transmitter is detected. | • Place new Fowler Transmitter (in bed or external) to the flat position.  
• Press and hold “Fowler” & “Max” keys until unit beeps. (Approx. 3 seconds). “L” will be shown on the 7-segment display.  
• Tilt transmitter/bed to Fowler position, unit beeps, all LEDs light up and unit returns to stand-by mode  
• To end routine without new fowler, press “Fowler” key.  
• Routine will auto time out in 60 seconds if no transmitter is detected. | |
| Set A/P Low Value  
K-4 Elite (Control Unit Must be Powered on)  
K-4oem (Control Unit must be in Stand-By mode) | • Press “Alternating Pressure (AP)” key to activate AP therapy.  
• Press “Mode” key, A/P settings will be displayed on the screen.  
• Use the “+” and “-” keys to adjust the Low AP percentage value (10%-75%)  
• Unit will time out and setting will be set automatically within 15 seconds. | • Press and hold “Mode” & “Fowler” keys until unit beeps. (Approx. 3 seconds).  
• 7-segment will display “0” (0% mmHg of high comfort pressure setting) or “5” (50% mmHg of high comfort pressure setting)  
• To end routine and accept setting, press “Power” key.  
• Routine will auto time out in 30 seconds if no key is pressed. |
WARRANTY

KAP MEDICAL warranties the control unit and the mattress for a period of ONE (1) year from the original date of purchase.

KAP MEDICAL warrants the Foam Aire Mattress for a period of ONE (1) year from the original date of purchase. The Foam Aire mattress will be repaired or replaced if the measurement of compression is beyond 25% of the mattress thickness.

KAP MEDICAL standard warranty is extended to the original buyer purchasing the equipment directly from KAP MEDICAL or through its authorized dealers. All warranty periods, where applicable, commence on the date of purchase from KAP MEDICAL or its authorized dealers.

KAP MEDICAL’S sole obligation and liability under this warranty is limited to (at KAP MEDICAL’S option) the repair or replacement by KAP MEDICAL’S authorized personnel of any parts or assemblies, which upon test and examination by KAP MEDICAL, prove to be defective. This equipment may be returned prepaid to KAP MEDICAL after notification has been given and approval obtained for the return. Please call your KAP MEDICAL sales representative or customer service at (951) 340 4360 to arrange for warranty services.

KAP MEDICAL’S liability under the warranty is the repair or replacement provided and, in no event, shall KAP MEDICAL’S liability exceed the purchase price paid by the customer of the product. Under no circumstances shall KAP MEDICAL be liable for any loss, direct, indirect, incidental, or special damages arising out of or in connection with the use of this product.

The control unit warranty does not cover normal maintenance such as cleaning, periodic electrical tests, performance tests, and updating of equipment or parts thereof. This warranty shall be void and not apply if the control unit, including any of its parts, is modified without KAP MEDICAL’S written authorization, is attempted to be repaired by personnel not authorized by KAP MEDICAL, is not maintained in accordance with the prescribed preventive maintenance schedule, is used with accessories or parts not authorized by KAP MEDICAL, or is damaged due to misuse, mishandling, abuse, negligence, accident, fire, or inadequate packaging by owner for shipment of the control unit for service, upgrade, repair, retrofit, or product return. All reasonable freight charges for valid factory approved warranty returns will be reimbursed. KAP MEDICAL makes no guarantee of clinical results.

◆ THE WARRANTY STATED ABOVE (INCLUDING ITS LIMITATIONS) IS THE ONLY WARRANTY MADE BY KAP MEDICAL AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KAP MEDICAL SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND.

<table>
<thead>
<tr>
<th>P/N:</th>
<th>Description:</th>
<th>File Name:</th>
<th>Rev:</th>
<th>ECO:</th>
<th>Release Date:</th>
</tr>
</thead>
</table>
NOTES:

Unit S/N: ______________________________

Mattress S/N: __________________________

Auto Fowler S/N: ______________________
Note: Before using the KAP MEDICAL Mattress or Overlay System, please remove current mattress, mattress replacement systems or overlay systems from the bed.

- **Mattress / Overlay set up.**
  - Make sure the mattress/overlay fits snugly on the bed frame without any gaps on the side.
  - Overlay System: Place the K-3 overlay directly on an existing 3” to 5” foam mattress. Insert head and foot end elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the short strap on the other side using the buckle. Hang the K-3 control unit on the footboard and make sure that the mattress hose assembly is connected securely to the control unit.
  - Mattress Replacement: Unroll the K-3 mattress replacement and place it directly on the bed frame and attach it firmly with the straps provided. Hang the K-3 control unit on the footboard, make sure that the mattress CPR, bolster and/or air pad plugs are connected properly and check that the mattress hose assembly is connected securely to the control unit.
  - Plug the hospital grade power cord provided with the unit into a three-pronged hospital socket. The display will read “KAP MEDICAL STAND BY”. Press POWER key (SB) to green light position and then press MAX Inflate (W). The blower will come on and quickly inflate the mattress.
  - Press the Patient SET-UP (H) key and follow the on screen instructions to set the patients height and weight. Patient comfort settings will be automatic when done with settings.
  - Press the SOFT / FIRM keys (K) to bypass automatic patient comfort pressure settings. Actual mattress pressures in mmHg (millimeters of mercury) will be displayed on the control unit display.
  - To set STATIC mode, press Mode key (M) until the display reads “THERAPY” (Static).
  - To set PULSE therapy mode, press Pulse key (N) until the display reads “PULSE”. Pulse times (Pulse High & Low) can be set using the Plus Minus keys (L).
  - To set Multi therapy mode (combination of Static and Pulse therapies), press the Mode key (M) until the display reads “MULTI”. Use the Plus Minus keys (L) to set the desired “Multi” therapy time.
  - To set PAN mode, press the PAN Key (Y). To deactivate PAN press the PAN Key again.
  - To set ALARM SILENCE, press the ALARM SILENCE key (AS) until the indicator light goes on.
  - To set the LOCK OUT Function, press the LOCK OUT key (LO) until indicator light goes on.
  - K-3 is equipped with an Auto Fowler Sensor which automatically detects patient’s fowler position of 35 degrees or greater and inflates mattress to higher pressures to eliminate patient bottoming.
  - For CPR or quick deflation, disconnect mattress hose connector from the control unit by simply pulling the magnetic connector from the control unit in a straight outward direction.

⚠️ Service: Clean filter periodically to prevent filter clogs.

♦ For more information, please call authorized service center ♦
K-3oem ~ EZ-AIRE™ QUICK REFERENCE GUIDE

K-3oem ~ EZ-AIRE™ TRUE LOW AIR LOSS SYSTEM WITH PULSATION THERAPY

⚠️ THIS DOCUMENT IS FOR QUICK REFERENCE ONLY. PLEASE READ THE MANUAL BEFORE OPERATING THE K-3oem SYSTEM.

Note: Before using the KAP MEDICAL Mattress or Overlay System, please remove current mattress, mattress replacement systems or overlay systems from the bed.

- Mattress / Overlay set up.
  - Make sure the mattress/overlay fits snugly on the bed frame without any gaps on the side.
  - Overlay System: Place the K-3oem overlay directly on an existing 3” to 5” foam mattress. Insert head and foot end elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the short strap on the other side using the buckle. Hang the K-3oem control unit on the footboard and make sure that the mattress hose assembly is connected securely to the control unit.
  - Mattress Replacement: Unroll the K-3oem mattress replacement and place it directly on the bed frame and attach it firmly with the straps provided. Hang the K-3oem control unit on the footboard, make sure that the mattress CPR, bolster and/or air pad plugs are connected properly and check that the mattress hose assembly is connected securely to the control unit.

- Plug the hospital grade power cord provided with the unit into a three-pronged hospital socket. The amber light will illuminate. Press POWER key (SB) to green light position and then press MAX Inflate (W). The blower will come on and quickly inflate the mattress.

- Using the SOFT / FIRM keys (K), set patient comfort pressure settings. 7 segment display will show patient comfort settings from 0 (lowest pressure) to 9 (highest pressure).
- To set STATIC (T) mode, press Select key (S) until the “THERAPY” LED (T) lights up.
- To set PULSE (N) mode, press the Select key (S) until the “PULSE” LED (N) lights up.
- To set ALARM SILENCE, press the ALARM SILENCE key (AS) until the indicator light goes on.
- To set the LOCK OUT Function, press the LOCK OUT key (LO) until indicator light goes on.
- K-3oem is equipped with a Fowler key (U) which when pressed in the patient’s fowler position of 35 degrees or greater will inflate the mattress to higher pressures to eliminate patient bottoming.
- For CPR or quick deflation, disconnect mattress hose connector from the control unit by simply pulling the quick connector from the control unit in a straight outward direction

⚠️ Service: Clean filter periodically to prevent filter clogs.

♦ For more information, please call authorized service center ♦
Note: Before using the KAP MEDICAL Mattress or Overlay System, please remove current mattress, mattress replacement systems or overlay systems from the bed.

- **Mattress / Overlay set up.**
  - Make sure the mattress/overlay fits snugly on the bed frame without any gaps on the side.
  - **Overlay System:** Place the K-4 overlay directly on an existing 3” to 5” foam mattress. Insert head and foot end elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the short strap on the other side using the buckle. Hang the K-4 control unit on the footboard and make sure that the mattress hose assembly is connected securely to the control unit.
  - **Mattress Replacement:** Unroll the K-4 mattress replacement and place it directly on the bed frame and attach it firmly with the straps provided. Hang the K-4 control unit on the footboard, make sure that the mattress CPR, bolster and/or air pad plugs are connected properly and check that the mattress hose assembly is connected securely to the control unit.

- **Plug the hospital grade power cord provided with the unit into a three-pronged hospital socket.** The display will read “KAP MEDICAL STAND BY”. Press POWER key (SB) to green light position and then press MAX Inflate (W). The blower will come on and quickly inflate the mattress.

- **Press the Patient SET-UP (H) key and follow the on screen instructions to set the patients height and weight. Patient comfort settings will be automatic when done with settings.**

- **Press the SOFT / FIRM keys (K) to bypass automatic patient comfort pressure settings. Actual mattress pressures in mmHg (millimeters of mercury) will be displayed on the control unit display.**

- **For ALTERNATING PRESSURE therapy, press the (A/P) key to start A/P mode. The display will read A/P time “10.00” minutes (or previous AP set time). To change A/P times simply Press the Time Adjust keys (L).**

- **To set STATIC mode, press Mode key (M) until the display reads “THERAPY”.**

- **To set MASSAGE mode, press Mode key (M) until the display reads “MASSAGE”. In this mode the patient receives rapid alternating pressure (rapid high pressures and low pressures).**

- **To set PULSE therapy mode, press Mode key (M) until the display reads “PULSE”. Pulse times can be set using the TIME ADJUST keys (L).**

- **To set Multi therapy mode (combination of Static, A/P, Pulse and Massage therapies), press the Mode key (M) until the display reads “MULTI”. Use the TIME ADJUST keys (L) to set the desired “Multi” therapy time.**

- **To set ALARM SILENCE, press the ALARM SILENCE key (AS) until the indicator light goes on.**

- **To set the LOCK OUT Function, press the LOCK OUT key (LO) until indicator light goes on.**

- **K-4 is equipped with an Auto Fowler Sensor which automatically detects patient’s fowler position of 35 degrees or greater and inflates mattress to higher pressures to eliminate patient bottoming.**

- **For CPR or quick deflation, disconnect mattress hose connector from the control unit by simply pulling the magnetic connector from the control unit in a straight outward direction.**

⚠️ **Service:** Clean filter periodically to prevent filter clogs.

✨ For more information, please call authorized service center ✨
**K-4oem ~ AIRE-FLOAT™ QUICK REFERENCE GUIDE**

**K-4oem ~ AIRE-FLOAT™ ALTERNATING TRUE LOW AIR LOSS SYSTEM**

⚠️ THIS DOCUMENT IS FOR QUICK REFERENCE ONLY. PLEASE READ THE MANUAL BEFORE OPERATING THE K-4oem SYSTEM.

---

**Note:** Before using the KAP MEDICAL Mattress or Overlay System, please remove current mattress, mattress replacement systems or overlay systems from the bed.

- **Mattress / Overlay set up.**
  - Make sure the mattress/overlay fits snugly on the bed frame without any gaps on the side.
  - Overlay System: Place the K-4oem overlay directly on an existing 3" to 5" foam mattress. Insert head and foot end elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the short strap on the other side using the buckle. Hang the K-4oem control unit on the footboard and make sure that the mattress hose assembly is connected securely to the control unit.
  - Mattress Replacement: Unroll the K-4oem mattress replacement and place it directly on the bed frame and attach it firmly with the straps provided. Hang the K-4oem control unit on the footboard, make sure that the mattress CPR, bolster and/or air pad plugs are connected properly and check that the mattress hose assembly is connected securely to the control unit.

- **Plug the hospital grade power cord provided with the unit into a three-pronged hospital socket. The amber light will illuminate.** Press POWER key (SB) to green light position and then press MAX Inflate (W). The blower will come on and quickly inflate the mattress.

- **Using the SOFT / FIRM keys (K) set patient comfort pressure settings.** 7 segment display will show patient comfort settings from 0 (lowest pressure) to 9 (highest pressure).

- **For ALTERNATING PRESSURE (AP) therapy,** press Mode (M) key until the desired A/P time LED (AP) lights up.

- **To set STATIC (T) mode,** press Mode key (M) until “STATIC” LED (T) lights up.

- **To set ALARM SILENCE,** press the ALARM SILENCE key (AS) until the indicator light goes on.

- **To set the LOCK OUT Function,** press the LOCK OUT key (LO) until indicator light goes on.

- **K-4oem is equipped with a Fowler key (U) which when pressed in the patient’s Fowler position of 35 degrees or greater will inflate the mattress to higher pressures to eliminate patient bottoming.**

- **For CPR or quick deflation,** disconnect mattress hose connector from the control unit by simply pulling the quick connector from the control unit in a straight outward direction.

⚠️ **Service:** Clean filter periodically to prevent filter clogs.

✦ **For more information, please call authorized service center** ✦