



# Instructions for Use

---

**K-0 Series**

## Revision

2026-02-23 by KAP Medical, ALL RIGHTS RESERVED

## Patents

US & International Patents & Patents Pending

## Manufactured by:



KAP MEDICAL  
1391 Pico St.  
Corona, CA 92881 USA

No part of this text shall be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information or retrieval system without written permission from KAP Medical.

The information in this manual is confidential and may not be disclosed to third parties without the prior written consent of KAP Medical.

The information in this manual is subject to change without notice. KAP Medical reserves the right to make changes without notice in terms of design, specifications, and models. The only warranty KAP Medical makes is the express written warranty extended on the sale or rental of its products.

**Notice to Users and/or Patients in EU**—Any serious incident that has occurred in relation to this device, should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

**Notice to Users and/or Patients (Saudi Arabia Only)** —Any serious incident that has occurred in relation to this device should be reported to the manufacturer and the Saudi Food and Drug Authority (SFDA).

### EU AUTHORIZED REPRESENTATIVE

**OBELIS S.A**  
Bd. Général Wahis, 53  
1030 Brussels, Belgium  
Tel: +32.2.732.59.54  
Fax: +32.2.732.60.03  
E-mail: [mail@obelis.net](mailto:mail@obelis.net)

### AUSTRALIAN SPONSOR

**Emergo Australia**  
Level 20 Tower II  
Darling Park  
201 Sussex Street  
Sydney, NSW 2000  
Australia

### UK RESPONSIBLE PERSON

**OBELIS UK Ltd.**  
Sandford Gate  
Oxford  
OX4 6LB  
United Kingdom  
Tel: +44.1491.378012  
E-mail: [mail@obelis.net](mailto:mail@obelis.net)



## Contents

Introduction .....	4
Intended Use.....	4
Contraindications .....	4
Warnings and Precautions .....	4
Bed Rail Entrapment Risk.....	5
Product Overview.....	8
System Components .....	10
Symbols and Labeling .....	11
Installation and Setup .....	13
Operation Instructions.....	15
CPR Function .....	20
Patient Transportation .....	22
Cleaning and Disinfection .....	22
Maintenance .....	24
Preventive Maintenance Checklist.....	25
Troubleshooting Guide .....	26
Technical Specifications .....	27
Storage and Transport .....	29
Service Life .....	29
Warranty and Service.....	29
Manufacturer Information .....	30
Disposal Instructions .....	31

## Introduction

This manual provides instructions for safe and effective use of the K-0 Series Therapeutic Support Surface Mattress System. Please read all sections before using the product.

## Intended Use

The K-0 Series is designed to provide effective pressure redistribution for individuals at risk of developing pressure injuries. These systems are intended to support both the prevention and management of pressure injuries when used as part of a comprehensive care protocol.

## Contraindications

- Use of therapeutic support surfaces is contraindicated in the absence of a clinical assessment and an appropriate therapy plan established by the caregiver.
- Not for patients with unstable spinal fractures, spinal cord injuries, or those requiring cervical traction.

## Warnings and Precautions

---



### WARNING

---

#### Electrical & Fire Hazards

- Risk of Electrical Shock: Do not remove the control unit cover. Only authorized service technicians should open the control unit.
- Always plug the unit into a properly grounded outlet to avoid electric shock.
- Check power requirements before using the unit. Verify the AC power at your location matches the label on the back of the control unit.
- Do not insert anything into the unit's openings—this could cause a fire or electric shock.
- Keep liquids and food away from the unit. If a spill happens, turn off the unit, unplug it immediately, and send it to an authorized service center.
- Do not pinch the power cord or place objects on it. Keep it out of walkways to avoid tripping or damage.
- Do not block the unit or place it near heat sources such as radiators.
- Do not place sharp objects on or near the device.

#### Explosion / Environmental Hazards

- Explosion risk. Do not use the control unit in areas where flammable anesthetics are administered or near oxygen tents.
- Not for use in oxygen-rich environments.
- No Smoking near the system. The unit uses room air, and smoke can contaminate the mattress and control unit.

- MRI Compatibility: This system is not MRI-compatible. Do not bring the control unit or any part of the system into the MRI suite. Doing so may result in equipment damage, patient injury, or interference with MRI operation.

#### **Patient Safety**

- Patient entrapment between bed side rails and mattress may result in serious injury or death. To prevent the risk of entrapment, the mattress must fit snugly within the bed frame and side rails. Monitor patient frequently.
- Always secure the mattress straps to the bed frame to prevent the mattress from sliding and causing patient injury.
- To help ensure patient safety, always raise the bedside rails before beginning therapy.
- Do not leave the patient unattended during Turn Assist. Serious injury could result.
- Risk of injury. Use of percussion mattress systems for stroke victims should be only under physician's order.
- Do not place the patient directly on the mattress without a top sheet.
- Confirm the unit does not block any controls on the bed frame footboard.
- Do not exceed the manufacturer's rated weight of the mattress or the bed frame. See the bed frame manufacturer's manual for weight rating.

#### **Cleaning & Maintenance**

- Disinfect the mattress between patients. Failure to properly disinfect could result in cross-contamination and infection. Always unplug the control unit and mattress before cleaning.
- Only perform maintenance described in this manual. For any other service, contact the manufacturer and follow their instructions.

## **Bed Rail Entrapment Risk**



### **WARNING: Read Before Use**

Do not use this product without first thoroughly reading and understanding this Bed Rail Entrapment Risk Notification, along with all accompanying instructional materials, including the owner's manual, instruction sheets, and any on-product warnings.

If you do not fully understand this notification or any of the provided instructions, consult the patient's healthcare provider or your equipment provider before using the product.

**Failure to read, understand, and follow this information may result in serious injury or death.**

## Entrapment Zones



Source: *A Guide for Modifying Bed Systems and Using Accessories to Reduce the Risk of Entrapment*, U.S. FDA, June 21, 2006.

Reducing the risk of bed rail entrapment requires proper patient assessment, careful selection of equipment, ongoing monitoring, and strict adherence to all instructions, warnings, and this Bed Rail Entrapment Risk Notification. Each of these elements plays a critical role in promoting patient safety and preventing harm.

In response to recognized hazards, the healthcare industry has developed accessories designed to minimize gaps and openings within existing bed systems that could lead to entrapment. However, the use of such accessories must be based on a thorough clinical evaluation to ensure they are suitable and safe for the specific needs of the patient.

Certain conditions may significantly increase the risk of entrapment, including restlessness, cognitive impairment such as dementia, seizure disorders involving involuntary movements, sleep disturbances, and incontinence. Additionally, pediatric patients or individuals with smaller body size may face elevated risk due to their ability to fit into narrower openings within the bed system. These factors must be carefully considered when evaluating the safety of any bed configuration.

1. Bed rails are intended to prevent an individual from inadvertently rolling out of bed, aid 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.

2. Bed rails are designed to function as a paired system within the bed setup. When deployed, both side rails should remain in the raised (up) position, except when the patient is actively entering or exiting the bed. Using the bed with only one side rail raised and the other lowered may increase the risk of patient entrapment and is not recommended.
3. 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.
4. 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.

### **Entrapment Risk and Safety Guidance**

Patient entrapment in hospital bed systems is a well-recognized international safety concern. To address this, organizations such as the FDA, Health Canada, the U.S. Department of Veterans Affairs, and international standards bodies have worked with healthcare professionals, advocacy groups, and manufacturers to develop safety guidelines. A key reference is the FDA-backed document:

"Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment," developed by the Hospital Bed Safety Workgroup. It defines measurement zones and testing methods to help reduce entrapment risks. Globally, standards like IEC 60601-2-52 provide detailed safety and performance requirements for hospital and nursing care beds, including specific entrapment criteria.

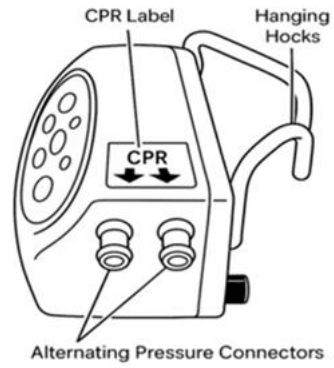
For the latest information, visit the [FDA website](#) and search for "bed rail entrapment," or consult IEC 60601-2-52 and guidance from Health Canada or other relevant authorities.

# Product Overview

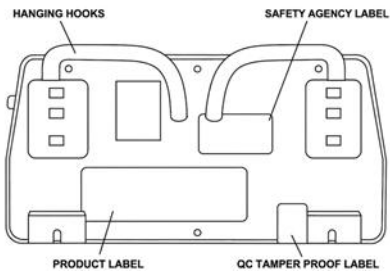
### CONTROL UNIT RIGHT SIDE (K-0 ELITE)



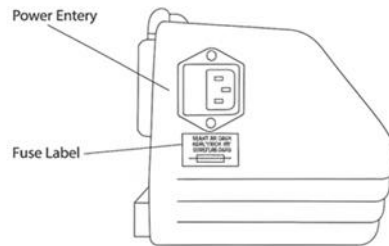
### CONTROL UNIT RIGHT SIDE (K-0oem)



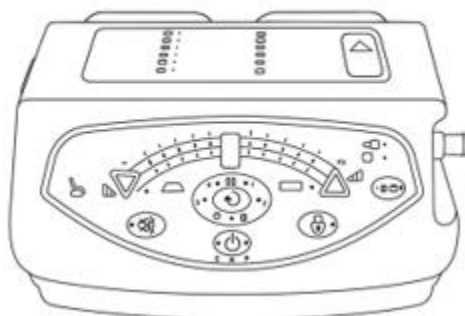
### CONTROL UNIT REAR



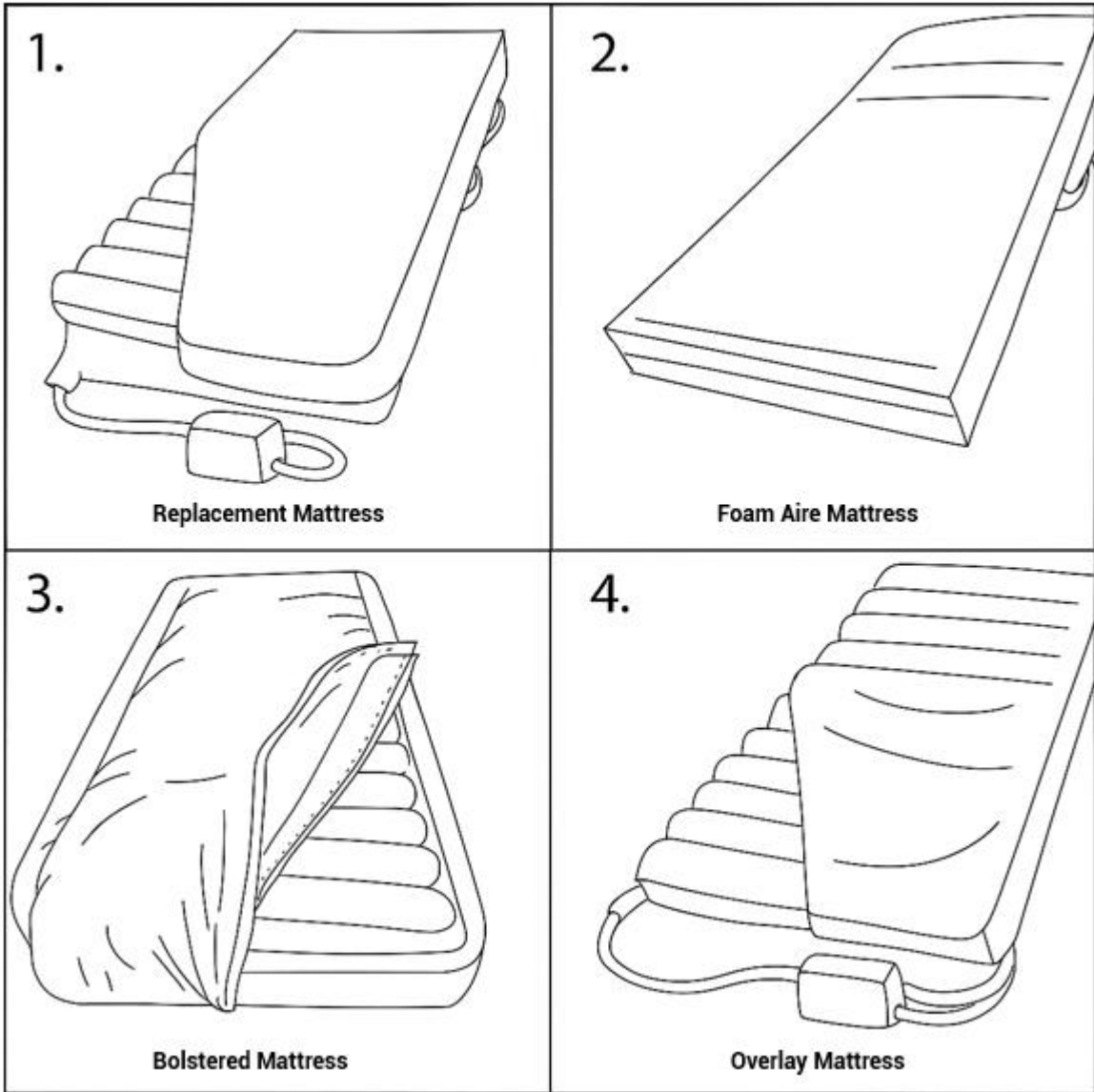
### CONTROL UNIT LEFT SIDE



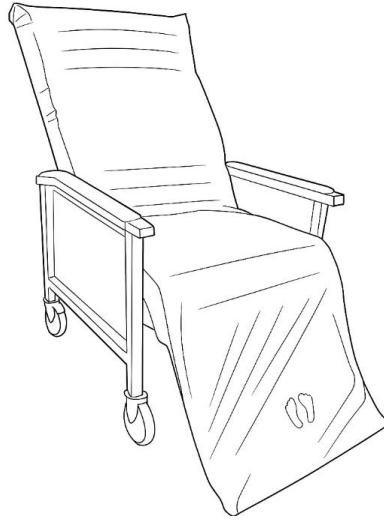
### Control Unit Front



## Mattress Options



## Chair Overlay Mattress



### System Components



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.

#### **K-0 / K-0oem Series**

1 Mattress  
1 Control Unit  
1 Power Cord

#### **Chair Overlay System**

1 Chair Overlay  
1 Control Unit  
1 Power Cord












#### **Foam Aire Mattress System**

1 Foam Aire Mattress  
1 Control Unit (if ordered with Mattress)  
1 Hose Assembly (if ordered with Mattress)  
1 Power Cord (if ordered with Mattress)




## Symbols and Labeling


















### Symbols used on the device







*Not all features included with each model.*

Function	Symbol	Meaning
POWER		Turns unit on / off.
SOFT / FIRM		Up or Down key adjusts patient comfort pressure levels.
THERAPY		Selects Static or A/P Time (Alternating Pressure (A/P) therapy time). A/P times may be set to 5, 10, 15, or 20 minutes. <b>(K-0 ELITE only)</b>
STATIC		Static Therapy on.
AUTO SET		Automatically sets recommended pressure levels for patient.
LOW AIR LOSS (K-0 Elite)		Static Therapy with Low Air Loss on.
MAX INFLATE		Inflates mattress to Max pressure. (45-minute timer).
FOWLER (K-0 Elite)		Boosts 15~25% more air pressure in the mattress during fowler position to avoid patient bottoming out.
LOCK		Locks out all keys to prevent tampering of settings.
POWER FAIL / LOW PRESSURE		In the event of power failure or if the hose is disconnected an alarm will sound.
ALARM SILENCE		Mutes Audio Alarm

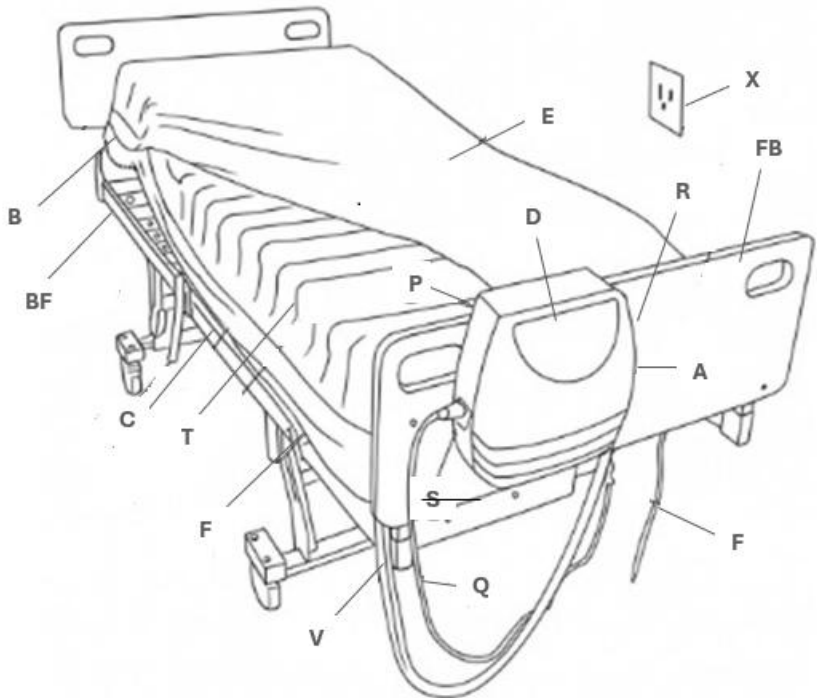
### Symbols used in the instructions and/or device labeling

	General warning
	Indicates that caution is necessary when operating the device or control close to where the symbol is placed.
	Electric shock hazard

	Legal manufacturer
	Date of manufacture
	Consult instructions for use.
	Indicates the item is a medical device
	Serial number
	Point of attachment of the equipment to earth (Grounding Point)
	Type BF Equipment: equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.
	Do not iron
	No sharp objects
	Low Heat Setting
	Do Not Dry Clean
	Normal Cycle
	Latex Free
	No Open Flames
	Bolster Deflate
	Mattress Deflate
	Air Pad Deflate

	CPR Deflate
	CPR (Cardiopulmonary Resuscitation)
	Heel Zone Regulator
	Must not be disposed of with household waste but instead collected separately for proper recycling under the WEEE Directive
	The device meets European Union medical device requirements
	The device conforms with the requirements of the United Kingdom Medical Devices Regulations 2002 (UK MDR 2002)

**Installation and Setup**





## Bed Safety Recommendations

- It's strongly recommended to install K-0 series systems on medical beds with standard side rails or assist rails.
- The mattress MUST fit the bed frame and side rails snugly to prevent patient entrapment.
- Once the patient is on the mattress, raise and lock all four side rails.
- The healthcare team should decide if side or assist rails are needed based on the patient's risk of entrapment or falling, and in line with local laws or facility policies.

### Before Use

- Remove any non-K-0 mattress or chair overlay from the bed frame or chair (Except Overlay Mattress)
- Confirm all air hoses and the power cord are clear of any moving parts on the bed.
- Run the bed through its full range of motion to ensure nothing gets pulled, pinched, or caught.

### Overlay Mattress System:

1. Place the overlay directly on an existing 3" to 5" foam mattress.
2. Secure the overlay to the mattress:
  - Wrap the elastic straps at the head and foot of the overlay around the foam mattress.
  - Take the two long straps on one side and loop them under the mattress.
  - Attach each to the matching short strap with a buckle on the opposite side and fasten securely.

### Mattress Replacement System:

1. Unroll the mattress (B) and place it directly on the bed frame (BF).
2. Confirm the hose end of the mattress is towards the foot of the bed.
3. The mattress includes ten black nylon straps with buckles:
  - Two straps at the head of the mattress
  - Two straps at the foot
  - Three straps on each side
4. Loop each strap around the bed deck and secure using the buckle.

*Note: Ensure that the head, knee, and foot sections of the bed can be raised without interference, and that all straps are secured to the bed deck, not the bed frame.*

### Foam Aire Mattress

1. There are no straps on the Foam Aire Mattress System (K-0FAMS and K-0oemFAMS). The Foam Aire mattress is placed directly on the bed frame.

## Chair Overlay System

1. Before using the K-OCS system, remove any other chair systems from the Geri Chair.
2. Place the Chair Overlay directly on the chair.
3. Secure using the three straps with buckles—one at the top, one in the middle, and one at the foot.
4. Wrap each strap around the chair and fasten tightly using the buckles.

## Control Unit Installation

1. Open the hooks (P) on the back of the control unit (A) and hang it from the bed's footboard (FB).
2. If the bed doesn't have a footboard, place the control unit (A) on its base or back, flat on the floor near the foot of the bed.
3. For the K-OCS system, place the control unit in the pocket at the top of the chair pad and strap it in place.

**Note:** Ensure the air inlet vent is not blocked and the control unit is not in a location that could obstruct traffic or cause issues with the bed's movement.

4. Uncoil the power cord (Q) and plug it into a properly grounded AC outlet (X).

## Connecting the Mattress to the Control Unit

1. Plug the hose connectors (R) from the mattress or overlay pad (V) into the matching connector on the control unit. Lock them securely in place.
2. If your mattress has a CPR tag connector, make sure it is firmly connected to the side manifold on the mattress.
3. Gently tug the hoses to ensure all connections are secure.
4. Confirm the hoses are hanging freely and are not pinched or kinked.

## Operation Instructions

### INITIAL POWER-UP

When the power cord is plugged into a power source, the control unit enters STAND BY mode (amber LED on).

Press the POWER key to activate the control unit. The green LED will illuminate.

On K-0oem units: Press Mode. The Max Inflate LED turns on and the pump operates at maximum flow.

On K-0 Elite units: Press Max Inflate to activate maximum pump flow.

### MAX INFLATE MODE

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 activating MAX Inflate mode. In this mode the mattress rapidly inflates to  $35 \pm 5$  mmHg and automatically deactivates after 45 minutes, reverting to the previous setting.

To activate Max Inflate mode:

- K-0 Elite: Press the MAX Inflate key.
- K-0oem: Press the Press the Mode key until Max Inflate is selected.

The mattress or chair pad typically inflates in 15–60 minutes, depending on size.

## Therapy Modes

### STATIC MODE

In Static mode, all air cushions are maintained at the same pressure. The pressure can be adjusted for patient comfort.

To activate Static mode, press the Mode key to select Static. The corresponding LED will turn on.

### ALTERNATING PRESSURE

#### Activating AP Mode

1. Press the Mode key to cycle to Alternating Pressure. The selected AP time LED (5, 10, 15, or 20 minutes) will light up.

*Note: Adjustable AP times are available only on K-0 Elite units.*

Odd-numbered cushions maintain set pressure.

Even-numbered cushions deflate to 0%, 25%, 50%, or 75% of the high pressure for half the cycle, then reverse.

On K-0CS units, the low AP pressure is factory-set to 50% or 75% of the high setting.

### PATIENT COMFORT CONTROL LEVEL

#### Adjusting Comfort Pressure

1. Press SOFT to decrease and FIRM to increase the pressure setting (0–9 range).
2. Pressure range:
  - Mattress Systems:  $8 \pm 5$  mmHg (SOFT) to  $32 \pm 5$  mmHg (FIRM)
  - Chair Pads:  $10 \pm 5$  mmHg to  $110 \pm 10$  mmHg

#### Pressure Check

Applicable only for K-0 and K-0oem mattress systems (not overlays).

1. Perform a **four-finger check**:

2. Slide four fingers between the air cushions under the patient's sacral area.
3. There should be at least 4 finger widths of space between the patient and the safety foam base.
4. Adjust the pressure as needed and repeat the check until the correct support is achieved.



## RECOMMENDED PRESSURE SETTINGS

To quickly inflate the mattress, press the Max Inflate key. The Max Inflate LED will illuminate to indicate activation.

For extra firm support—such as during patient ingress or egress, wound care, turning, or cleaning—activate Max Inflate to increase mattress firmness.

If the patient's weight-to-height ratio is above average, increase the Comfort Control setting to 20% above the standard pressure level for optimal support.

## ADDITIONAL FEATURES

### On-Demand Low Air Loss (K-0 Elite Only)

Press the Low Air Loss key to activate Low Air Loss mode.

If using the optional Low Air Loss Top Sheet, relief is provided through a multi-chamber air distribution layer.

### Upright Mode (K-0 Elite Only)

Press the Upright key to activate Upright mode.

All mattress zones increase in pressure to provide additional support, preventing bottoming out during upright positioning.

## CONTROL PANEL SECURITY

### Lock Out Mode

To lock the control panel (including power), press and hold the LOCK key for 3–5 seconds until the LED lights up.

### Alarm Silence

In the event of a power failure or hose disconnection, the system will activate an audio-visual alarm to alert the user.

Press the Alarm Silence key to mute the audio alert.

## **FAILURE MODES**

### **Power Fail**

In the event of a power outage, the microprocessor will activate an audiovisual alert by flashing the amber 'power fail' LED and emitting an audible beep to notify the caregiver. Once power is restored to the control unit, the alert will stop automatically, and the unit will resume operation in its previously set mode.

The air mattress will hold air during transportation or power failure if the mattress is connected to the control unit.



Do not leave the patient on the mattress for extended periods while it is deflated.

### **Low Pressure**

In the event of a hose disconnection or a drop in pressure, the system will activate an audio-visual alert: the amber low-pressure LED will flash (displayed as "LP" on the 7-segment LED for K-0 Elite, or as a flashing LED on K-0 OEM models), and the buzzer will sound. Once the hose is reconnected and normal pressure is restored, the alert will stop automatically, and the unit will resume its previously set operating mode.

## **BOLSTERED MATTRESS**

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

Before using the mattress, verify that the bolster deflate connector is re-connected back into the bolster deflate valve.

### **BOTTOM SAFETY AIR PAD (Optional)**

To manually deflate the bottom safety air pad, disconnect the deflate connector located at the bottom right corner of the mattress (patient's right side).

## **FOAM AIRE MATTRESS AS NON-POWERED MATTRESS**

The Foam Aire mattress may be used as a non-powered support surface when the control unit is not required. To prepare the mattress for non-powered use, follow these steps:

1. Attach the control unit to the mattress using the hose assembly. Ensure all connections are secure.
2. Inflate the Mattress Power on the control unit and set the comfort level to 5 mmHg to fully inflate the mattress.

3. Once the mattress reaches the desired pressure, the control unit will automatically stop.
4. After inflation is complete and the control unit has stopped, disconnect the hose assembly from the mattress. Store both the control unit and the hose assembly in a clean, dry storage area for future use.

**Note:** The mattress is now ready for use as a non-powered support surface. Periodically check firmness to ensure adequate patient support.

### **FOAM AIRE MATTRESS AS POWERED MATTRESS**

If needed, the Foam Aire mattress can be easily converted to powered mode by connecting the control unit to the mattress using the provided hose assembly. For detailed instructions on operating the system in powered mode, refer to the Operating Instructions section above.

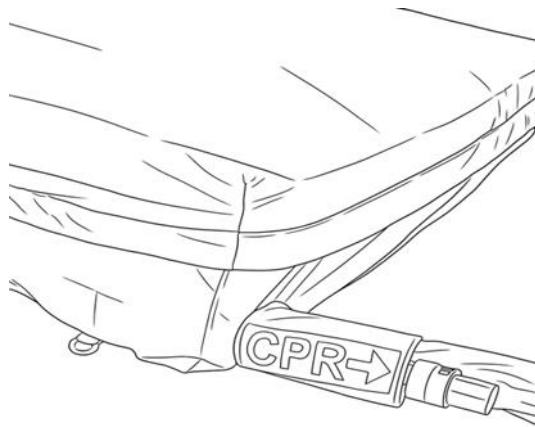
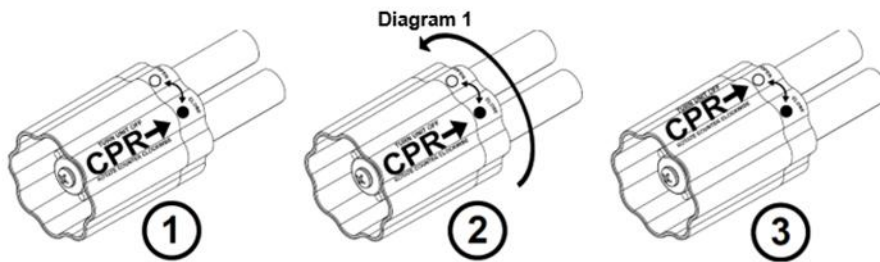
## CPR Function



### DEFLATE THE AIR MATTRESS FOR CPR (With CPR Valve):

Step 1: Turn the unit off by pressing the POWER button  or 

Step 2: Turn the CPR valve to OPEN. (Diagram 1)



**CPR Valve**  
(Located at the foot of the mattress)

**DEFLATE THE AIR MATTRESS FOR CPR ( Without CPR Valve):**

**Step 1: Turn the unit off by pressing the POWER button**  or 

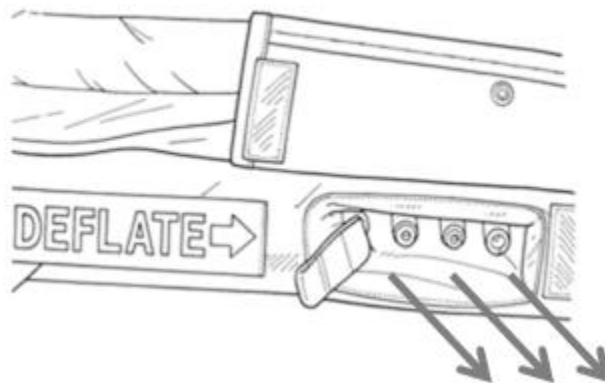
**Step 2: Disconnect the mattress hose connector from the control unit. (Diagram 2)**

**Diagram 2**



OR

**Foam Aire Mattress**



## Patient Transportation

### 1. AIR MATTRESS

Transporting a Patient While Remaining on the Bed:

a) Place the unit in static mode and wait until the mattress pressure stabilizes.

b) Power Down the System (Except for models with battery backup):

Turn off the control unit. Unplug the power cord from the power source and wrap it securely around the control unit before transport.

*Note: Systems equipped with a battery backup allow the mattress to remain inflated for a limited time, enabling short-duration transport without loss of pressure support.*

After the power is turned off, the mattress surface will remain inflated for a short period to allow for brief transport. The side bolsters remain inflated to help maintain patient safety during handling.

c) Support During Transport:

A 2-inch convoluted foam pad (or optional 2-inch air pad) is integrated into the system to provide basic support while the mattress is deflated.



*Note: Do not leave the patient on a deflated air mattress for extended periods.*

### 2. FOAM AIRE MATTRESS

Transporting patient while remaining on the bed:

a) Power Down the System (if applicable):

If the mattress is being used in powered mode, turn off the control unit. Unplug the power cord from the power source and securely wrap it around the control unit.

b) Maintain Mattress Support:

The Foam Aire mattress will remain firm and supportive during transport, even when powered off.

## Cleaning and Disinfection



### Warnings

- Always disconnect the power cord from the power source before cleaning the control unit.
- Do not heat, steam autoclave, or immerse the control unit in liquid.
- Use only approved cleaning agents. Improper cleaning may damage materials.

### CONTROL UNIT

1. Wear protective gloves and eye protection.
2. Prepare disinfectant solution:
3. Recommended products:
  - a. ECOLAB Virasept™ (EPA Reg. No. 16277-226, Mfr. Part No. 6002314)
  - b. ECOLAB Home-Style Laundry Detergent Packs (Mfr. Part No. 6101955)
4. Follow manufacturer's instructions for dilution.
5. Pour solution into a clean spray bottle. Prepare fresh solution daily.
6. Remove dust with a clean brush or dry cloth.
7. Lightly spray the exterior (top, bottom, power cord, and plug). Wipe immediately with a damp cloth. *Do not saturate the unit.*
8. Wipe with a clean, dry cloth. Allow to air-dry in a cool area for at least 1 hour before use or storage. If not used immediately, place in a clean plastic bag for storage.
9. Remove gloves and wash hands with antibacterial soap.

#### **AIR MATTRESS, MATTRESS OVERLAY and CHAIR OVERLAY**

1. Wear protective gloves and eye protection.
2. Prepare disinfectant solution (see Control Unit, step 2).
3. Disinfect top cover: Apply solution until surface is visibly wet. Keep wet for at least 4 minutes.
4. Wipe air cushions and base with a damp cloth, then dry with a clean cloth. Allow to dry before laundering.
5. Launder air cushions and top cover as needed:
  - Use heavy load, cold water cycle.
  - Add recommended detergent and/or hospital disinfectant.
  - Use non-chlorine bleach only.
6. Shake cushions gently to remove water. Dry cushions and top sheet on the lowest dryer setting until completely dry.
7. Allow mattress to air-dry for at least 1 hour before use or storage. If storing, roll and place in a clean plastic bag.
8. Remove gloves and wash hands with antibacterial soap.

#### **FOAM AIRE MATTRESS (FAM)**

*Note: Contains a Kevlar® fire-retardant sleeve. Use caution when removing cover.*

1. Remove bedding before cleaning.
2. Wear protective gloves and eye protection.
3. Prepare disinfectant solution (see Control Unit, step 2).
4. Clean top and bottom mattress covers with disinfectant.
5. Wash covers following Air Mattress washing instructions.
6. Wipe dry with a clean cloth and allow to fully dry.

## Maintenance

- Regularly test the control unit to ensure proper functionality.
- An out-of-specification air pressure reading can compromise patient support.
- There is no filter to change or clean on this system.
- All preventive maintenance service, performance and electrical tests, or repairs should be performed by factory authorized and qualified technical personnel only.

## Preventive Maintenance Checklist

Check all items listed during annual preventive maintenance for all KAP Medical products. Depending on your level of product use, more frequent maintenance checks may be required. Service must be performed by qualified service technicians.

Note: Ensure all listed requirements are met before use or returning to service.

- Product has been removed from all operations.
- The support surface has been disinfected and cleaned before inspection according to the KAP Medical cleaning procedure.
- All zippers and covers have no tears, holes, cuts, or other damage.
- Inside surface has no signs of staining due to fluid ingress or contamination.
- All air cells are free of excessive wear, such as cracks, tears, or damages.
- Fire barrier cover has no excessive wear (if present).
- All connectors are free of damage.
- Pump housing or components (hoses, power cords, or cases) are free of cracks, holes, or other damage.
- Pump hooks that hang the pump on the bed frame are not damaged.
- No air leaks from the pump, attached connectors, or hoses.
- Front display is not cracked or damaged.
- Charcoal filter is free of dust, dirt, and other contaminants.
- Fuses are in working condition.
- Max inflate function is operational.
- CPR release is functioning.
- Diagnostics test has been performed and product recalibrated.
- Any worn or damaged components have been replaced.

Unit S/N: \_\_\_\_\_ Completed By: \_\_\_\_\_ Date: \_\_\_\_\_

Mattress S/N: \_\_\_\_\_ Completed By: \_\_\_\_\_ Date: \_\_\_\_\_

***Caution: Do not modify the product or its components. Unauthorized modifications could cause injury or harm to the patient and may result in product damage or malfunction.***

---

Contact KAP Medical for additional questions.

## Troubleshooting Guide

Problem	Possible Cause	Recommended Solution
Mattress not properly inflating	1. Mattress hose is disconnected	Reconnect the hose securely and lock in place
	2. Air hose is kinked or damaged	Straighten hose or replace if split/damaged
	3. Air cushions or overlay pad have a major leak	Replace the damaged cushions or overlay pad
	4. Manifold is kinked or damaged	Unkink or replace the manifold
	5. Control unit has power but won't turn on	Return unit for service or repair
	6. Pump malfunction	Return unit for service or repair

No Power	1. Control unit is turned off	Turn on the control unit
	2. Power cord is disconnected	Plug power cord into grounded outlet
	3. No power at wall outlet	Check outlet and ensure it is supplying power
	4. Power outage	Wait for power to be restored
	5. Blown fuse inside control unit	Replace with the correct type of fuse

Control unit not responding	1. Control unit is turned off	Turn on the control unit
	2. Power cord is disconnected	Plug power cord into grounded outlet
	3. No power at wall outlet	Check outlet and ensure it is supplying power
	4. Power outage	Wait for power to be restored
	5. Blown fuse inside control unit	Replace with the correct type of fuse

## Technical Specifications

### U.S. / INTL.

Input Voltage AC:	90 ~ 240 VAC
Input Frequency:	60 / 50 Hz
Maximum Power Consumption:	8 W $\pm$ 2 W
Circuit Protection:	Dual fused, 250V, 1A Slow blow fuse(s), std. fuses
Fuse Type:	Bussmann GMD-1-R
Breaking Capacity:	@125 VAC is 10kA @250 VAC is 35A
Mode of Operation:	Continuous

### Mattress Weight Capacity

Overlay Mattress	500 lbs. (227 Kg.) maximum
Standard Replacement Mattress:	500 lbs. (227 Kg.) maximum
Bariatric Replacement Mattress:	1000 lbs. (454 Kg.) maximum
Foam Aire Mattress:	500 lbs. (227 Kg.) maximum
Standard Chair Overlay	250 lbs. (113 Kg.) maximum
Wider Chair Overlay (71 cm)	450 lbs. (204 Kg.) maximum

### Patient Comfort Control Pressures

Pressure Zones:	2
Max Flow:	8 $\pm$ 4 LPM
Max Inflate Pressure:	35 $\pm$ 5 mmHg
Max Flow Time:	45 minutes
Support Surface Inflation Time:	(K-OMS / K-0oemMS) 20~45 minutes
Support Surface Inflation Time:	(K-0FAMS / K-0oemFAMS) 5~15 minutes
Soft Pressure:	7 $\pm$ 5 mmHg
Firm Pressure:	32 $\pm$ 5 mmHg
AP Time (K-0):	5, 10, 15, or 20 Min
AP Time (K-0oem):	10 Min Fixed
AP Low Pressure:	0%, 25%, 50%, or 75% of High Pressure

### Chair Overlay

Inflation Time:	10~15 minutes
Pressure Zones:	2
Max Flow :	8 $\pm$ 4 LPM
Max Inflate Pressure:	120 $\pm$ 10 mmHg
Max Flow Time:	45 minutes

### Patient Contact

Control unit and the mattress are constructed from lead free and mercury free components.  
Not made with natural rubber latex.  
Dartex top sheet is Halogen-free (bromide-free).

### Mechanical Specification (Control Unit)

Dimensions, L x W x H:	10" x 5" x 5" (25 cm x 13 cm x 13 cm)
Weight:	5 lbs. (2.3 kg)

Power Cord: 14' (427 cm) 16-18 AWG hospital grade detachable

Air Filter: Internal, non-replaceable

### Mechanical Specification (Mattress)

Standard Mattress: 80" x 36" x 8" or 10" (203 cm x 91cm x 20cm or 25 cm)  
Standard Mattress Weight: 23 lbs. (10 kg)  
Foam Aire Mattress Weight: 38 lbs. (17 kg)  
Standard Chair Overlay: 69" x 20" x 8" or 10"  
Foam Aire™ assembly: Enclosed within a Kevlar fire barrier.  
TB129, 1632 & 1633 compliant  
Mattress tolerances: Length. Pass= ± 2", width. Pass = ± 1", height. Pass =± 1"

### 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 (IPX0)

### Classification

ETL Listed 3<sup>rd</sup> Ed.

Type BF equipment 

Medical equipment: Classified with respect to electric shock, mechanical hazards only, in accordance with UL60601-1 CAN/CSA C22.2 No. 601.1.- M90

Electromagnetic compatibility, meets EN 60601-1-2, 2001 (CISPR 11 classified as Class A, Group 1 ISM equipment)

### FCC Statements

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

- This device may not cause harmful interference, and
- 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.

## Storage and Transport

- When the control unit is not in use, turn it off, unplug the power cord from the power source, and wrap the cord neatly around the unit. Place both the control unit and the power cord in a plastic bag and secure with a cable tie to protect the equipment from dust.
- When the air mattress is completely dry, fold or roll carefully.
- Place the mattress into a plastic bag and seal with a cable tie to prevent dust accumulation.
- Store the Foam Aire mattress flat to maintain its shape and integrity.
- Store in a dry, clean environment.
- Use original packaging or protective cover to transport.

## Service Life

The expected service life for this product is five years.

## Warranty and Service

### Coverage Period

KAP Medical provides a 1-year warranty for both the control unit and the mattress, starting from the original date of purchase.

The Foam Aire Mattress is also covered for 1 year. If it compresses more than 25% of its original thickness, it will be repaired or replaced.

### Eligibility

This warranty applies only to the original purchaser who bought the equipment directly from KAP Medical or through an authorized dealer. The warranty period begins on the purchase date.

### What's Covered

KAP Medical will, at its discretion, repair or replace any part that is found to be defective after inspection by authorized KAP Medical personnel.

To arrange service, contact your sales representative or KAP Medical Customer Service at (951) 340-4360. Returns must be pre-approved and shipped prepaid.

### Limitations

- KAP Medical's maximum liability is limited to the purchase price of the product.
- KAP Medical is not responsible for any indirect, incidental, or special damages related to use of the product.

- Normal maintenance, such as cleaning, performance checks, or software updates, is not covered.

### **Warranty Void Conditions**

The warranty will be void if:

- The unit is modified without written approval from KAP Medical.
- Repairs are attempted by unauthorized personnel.
- Preventive maintenance is not followed.
- Non-approved parts or accessories are used.
- The unit is damaged due to misuse, abuse, fire, accident, poor shipping, or negligence.

### **Shipping Costs**

For valid, factory-approved warranty returns, reasonable freight charges will be reimbursed.

### **Disclaimer**

This warranty is the only warranty offered by KAP Medical. It replaces all other warranties, express or implied, including warranties of merchantability or fitness for a particular purpose.

KAP Medical's original warranty for all K-0 Systems remains valid throughout the warranty period, provided that any modifications, adjustments, or repairs have been performed by a KAP Medical technician or an authorized service center. The warranty also requires that the control unit and mattress system are used in accordance with the operating instructions provided.

KAP Medical's sole obligation under this warranty is limited to the repair or replacement of the product. In no event shall KAP Medical's liability exceed the original purchase price paid by the customer.

KAP Medical does not guarantee specific clinical outcomes and is not liable for any consequential or incidental damages.

## **Manufacturer Information**

KAP Medical  
1395 Pico St. Corona, CA 92881 U.S.A.  
+1 951 340 4360  
sales@kapmedical.com  
<https://kapmedical.com>

Customer Service:  
1-866-KAP-MED 1 (866 527 6331)

Technical Support & Service:  
1-951-340-4366

Manufactured in USA

## Disposal Instructions

Dispose of this control unit in accordance with local, state, and federal regulations for electronic waste disposal. Do not discard this product in household trash. Instead, take it to an authorized e-waste recycling facility or a designated collection point.

Dispose of this mattress in accordance with local regulations for waste disposal.