



Instructions for Use

K-1 & K-2 Series

Revision

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Patents

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Manufactured by:



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The K-1 Derma-Kare™ and K-1oem Alt-Aire™ are not available in Australia.

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Introduction

This manual provides instructions for safe and effective use of the K-1 & K-2 Series Therapeutic Support Surface Mattress System. Please read all sections before using the product.

Intended Use

The K-1 & K-2 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 the presence of flammable anesthetics or in the proximity of an oxygen tent.

- 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

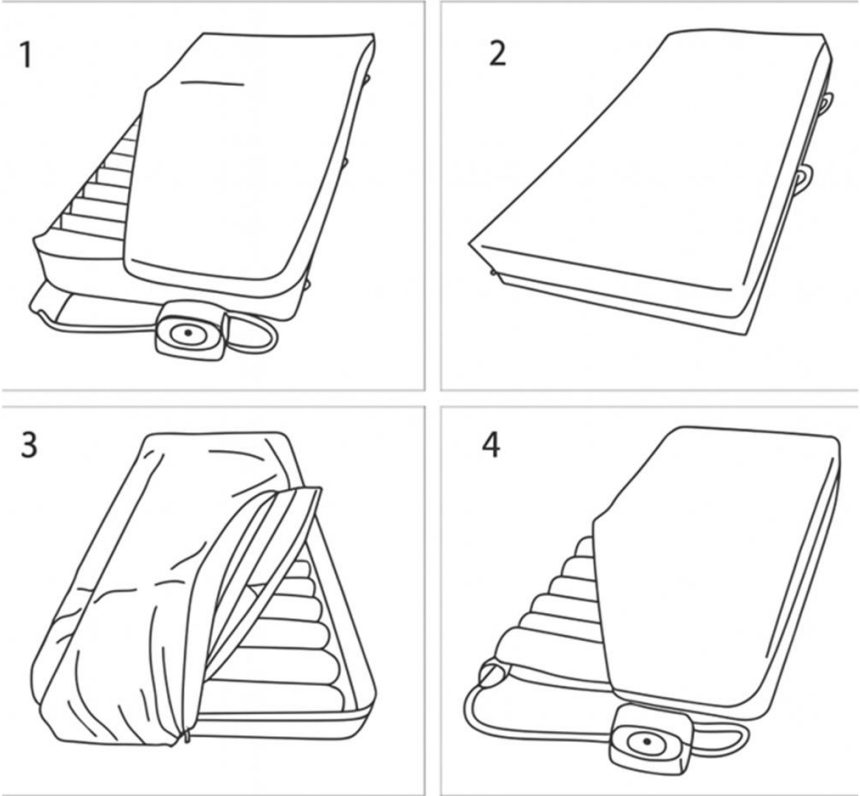
Patient entrapment in hospital bed systems is a well-recognized international safety concern. To address this, organizations such as the FDA, Health Canada, the U.S. Department of Veterans Affairs, and international standards bodies have worked with healthcare professionals, advocacy groups, and manufacturers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

MATTRESS TYPES



- 1.Replacement Mattress
- 2.Foam Aire Mattress
- 3.Bolstered Mattress
- 4.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.

Replacement Mattress System

1 Mattress
1 Control Unit
1 Power Cord

Overlay Mattress System

1 Overlay Mattress
1 Control Unit
1 Power Cord












Foam Aire Mattress

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	 or 	Turns unit on / off. ● Green = On ● Orange = Standby
POWER / LOCK DUAL KEY (SP)		Turns unit On / Off and Locks out all control unit functions to prevent tampering. Lock LED Green = Locked Power LED Green = On
SOFT / FIRM (K)	 or 	Soft / Firm keys/knob adjusts patient comfort pressure levels.
PLUS / MINUS (L)		Adjust "+/-" to set various therapy times and patient settings.
SET-UP (H)		Input patient's height and weight to determine pressure levels.
MODE (M)		Select between Therapy Modes. (K-1oem, K-2, K-2oem)
SELECT (S)		Select between Low Air Loss and Max Inflate Modes. (K-2oem)
ALARM SILENCE (AS)	 or 	Alarm Silence – mutes audible alarm.

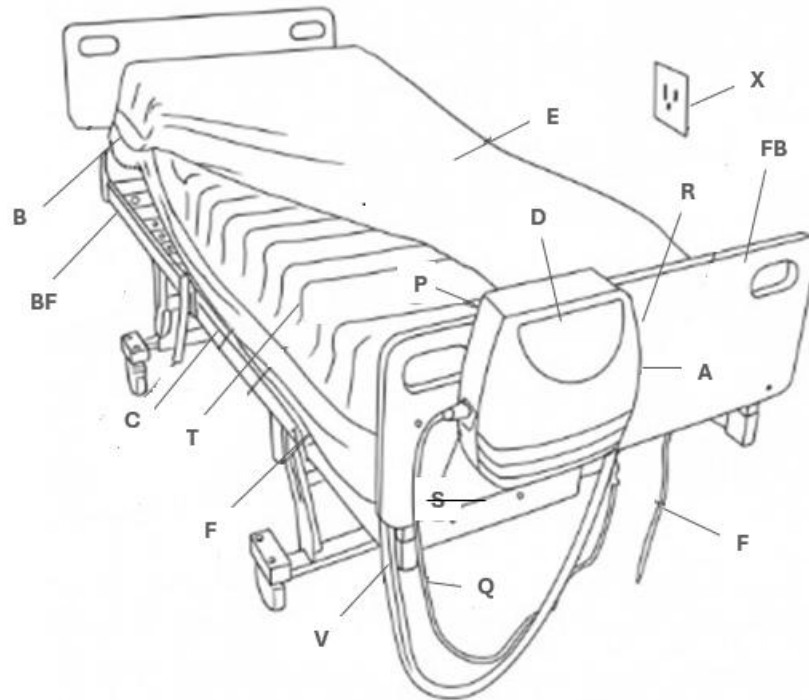
LOCK OUT (LO)	 or 	Locks out all control unit functions to prevent tampering.
STATIC (T)	 or 	Selects Static Therapy mode.
LOW AIR LOSS (Y)	 or 	Activates Low Air Loss mode
ALTERNATING PRESSURE (AP)	 or 	Selects A/P mode.
AP TIME (TT)	 or 	Selects AP cycle time
FOWLER (U)	 or 	Fowler Mode. The pressure will increase to prevent the patient from bottoming out.
MAX INFLATE (W)	 or 	Inflates the mattress rapidly (30-minute timer)
BOLSTER (BO)		Inflates the air cells (bolsters) located on both sides of the patient.
BATTERY		When Battery is used, this will appear on the display
AUTO-IMMERSION (AI)		Automatically immerses the patient to the most optimal pressure zone, regardless of patient weight & height.
AUTO-WIDTH (AW)		Adjusts the width of the mattress.
AUTO-LENGTH (AL)		Adjusts the length of the mattress.
AUTOSET (AU)		Automatically sets recommended pressure levels for patient.
PULSE (N)		Selects Pulsation mode on.
(WAVE)		Continuous Low Air Loss during Pulse mode.
POWER FAIL (PF) / LOW PRESSURE (LP)		In the event of power failure or if the hose is disconnected, an audio/visual alarm will sound.

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-1 & K-2 series systems on medical beds with standard side rails or assist rails.
- 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-1 or K-2 mattress from the bed frame (BF).
- 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.
- Confirm the red CPR valve is in the CLOSED position and bolsters and air pad plugs are connected and locked in place before inflating the mattress.

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. 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
3. Loop each strap around the bed deck and secure it using the D-ring 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.
4. Once all straps are fastened, tuck any exposed straps under the mattress.
5. Pull out the hanger bracket on the back of the control unit and hang it securely on the footboard of the bed.
6. If the bed does not have a footboard, place the control unit upright on its base (not on its back or where the filter is located), on a flat surface near the foot of the bed.
7. Uncoil the power cord and plug it into a properly grounded AC outlet. Connect the other end to the power inlet on the control unit and press it firmly into place.
8. Ensure the power cord is not pinched, covered, or placed where it can be stepped on or create a tripping hazard. The power connection should remain accessible for easy disconnection if needed.
9. Connect the hose assembly from the mattress to the corresponding connector on the control unit. Align the mating connector and lock it in place.

Note: Verify the hose is not kinked, pinched, or under tension. It should hang freely.
10. Verify the CPR valve is in the closed position. Confirm that all bolsters and air pad plugs are connected and locked before inflating the mattress.
11. Before placing a patient on the mattress, confirm:
 - The left and right safety air bolsters (if included) are fully inflated.
 - The bottom safety air pad is properly inflated to the correct operating pressure.
 - The surface is firm and ready for use.

Control Unit Installation

1. Open the hooks (P) on the back of the control unit (A) and hang the unit from the bed's footboard (FB).

2. If the bed doesn't have a footboard, place the control unit (A) on its base, flat on the floor near the foot of the bed.

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.

3. 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. Confirm the CPR valve is in the closed position, bolsters and air pad plugs are connected and locked in place before inflating the mattress.
3. Gently tug the hoses to ensure all connections are secure.
4. Make sure the hoses are hanging freely and are not pinched or kinked.

Operation Instructions

INITIAL POWER-UP

Powering On the Unit

(K-1 ELITE, K-2 ELITE Models)

Upon initial power-up, the control unit will briefly display the following messages:

- K-1 System: "KAP MEDICAL, K-1 APP SYSTEM"
- K-2 System: "KAP MEDICAL, KARE-ZONE, DYNAMIC LAL SYSTEM"

Following this, the system will undergo an initialization sequence lasting a few seconds. Once the initialization is complete, the display (D) will show: "KAP MEDICAL, STANDBY."

(K-1oem, K-2oem Models)

Upon initial power-up, an amber indicator light on the control unit will illuminate, signifying that the unit is in Standby Mode.

Once the unit is in Standby Mode, press the Power key. The (amber) Standby LED will turn to (green) and the control unit will turn on.

POWER / LOCK DUAL KEY

1. To turn on: Press the dual key. The power LED and control unit will turn on.
2. To lock controls: Press and hold the dual key for about 5 seconds, until the light turns on. This locks all control functions, including the power switch.
3. To unlock controls: Press and hold the lock key until the light turns off.

MAX INFLATE MODE

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 activating MAX Inflate mode.

1. To activate Max Inflate mode:
 - K-1, K-1oem, and K-2: Press the MAX Inflate key. The MAX Inflate LED will turn on.
 - K-2oem and U-K-2oem: Press the Select key until the MAX Inflate LED turns on.
2. This mode quickly inflates the mattress. A reminder beep will sound every 3 minutes while the mode is active.
3. In Max Inflate mode:
 - The mattress inflates to 35 ± 5 mmHg (for U-K-2oem: 60 ± 5 mmHg). Full inflation occurs within 5–15 minutes.
 - The mode automatically turns off after 30 minutes (for U-K-2oem: 20 minutes).

AUTO SET

1. (K-2 ELITE) After initial power up, the mattress system will enter "AUTO SET" Mode.
2. Select "STANDARD" (standard = ≤ 36 " wide mattress) or "BARIATRIC" (bariatric = > 36 " wide mattress).
3. Press the SELECT key to switch between both settings.
4. Press the POWER key to save the desired mattress size.

PATIENT SET-UP (K-2 Elite)

1. Press the Patient SET-UP (H) key and follow the on-screen instructions to set the patient's height and weight.
2. Patient comfort settings will be automatic when done with settings.
3. To exit automatic patient comfort settings, press the Soft or Firm pressure comfort keys or turn dial to adjust comfort pressure manually.

AUTO IMMERSION

1. Press the auto immersion key (AI).
2. This mode automatically adjusts to provide the best pressure relief for the patient, regardless of their weight or height.

Therapy Modes

STATIC MODE

To activate Static mode:

- On K-1 Elite, press the Therapy key.

- On K-2 Elite, press the Mode key until the Static mode indicator turns on or the screen displays Therapy

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

ALTERNATING PRESSURE

In Alternating Pressure mode, the mattress cycles pressure between zones to provide continuous pressure relief. During the first half of the cycle, the odd-numbered air cells remain at full comfort pressure while the even-numbered cells deflate to a set percentage. In the second half, the roles reverse, maintaining an alternating pattern of support and relief.

Activating AP Mode

1. K-1 Elite & K-2 Elite: Press the AP key to activate AP mode.
2. K-1oem: Press the Mode key to activate AP mode, then select the desired cycle time (5, 10, 15, or 20 minutes) using the same key.
3. K-2oem: Press the Mode (M) key to activate AP mode. Select the AP time using the Time key.
4. K-1 & K-2: Use the Time keys or knob to set the desired AP cycle time.

Adjusting Low Pressure Settings in AP Mode

K-1oem & K-2oem

1. Ensure the unit is in Standby mode.
2. Press and hold Alarm Silence + Fowler keys simultaneously for ~3 seconds until the unit beeps.
3. The display will show the current low-pressure percentage:
 - K-1oem: "0", "2", "5", or "7" = 0%, 25%, 50%, or 75% of the high-pressure setting.
 - K-2oem: "0" or "5" = 0% or 50% of the high-pressure setting
4. Use the Soft/Firm keys to adjust the value.
5. Press Power to save and exit or wait 30 seconds for auto-timeout.
6. Turn the unit back on and reselect AP mode.

K-1 Elite

1. While in AP mode, press and hold the AP key for ~3 seconds.
2. The screen will display current AP settings.
3. Use the "+" and "-" (L) keys to adjust low pressure (0%–80% of high-pressure setting).
4. Press AP again to save or wait 30 seconds for automatic save.

K-2 Elite

1. While in AP mode, press the Mode key.
2. Press the "+" and "-" keys to adjust low pressure (0%–75%).
3. Press AP to save the setting.
 - Press MAX to activate ZIP mode (0% of high-pressure setting).
 - Press Mode to switch therapy modes.
4. Settings will auto-save after 15 seconds of inactivity.

ON DEMAND LOW AIR LOSS

1. To activate Low Air Loss mode, press the Low Air Loss key. The corresponding LED will light up to confirm activation.
2. In this mode, the patient receives continuous air flow for heat and moisture management. If the mattress includes the optional Low Air Loss Top Sheet, the air is delivered directly beneath the patient through a specialized multi-chamber air distribution layer in the top sheet.

PULSE WAVE MODE

1. In this mode, each air cell alternates between full pressure and 50% pressure every 5 seconds. This cycle continues based on the selected pulse interval time.
2. To activate Pulse mode, press the Mode key until "PULSE" appears on the screen.
3. While in Pulse mode, use the "+" and "-" keys to set the interval from 1 to 99 minutes.
4. Alternatively, put the unit in Standby, then press PATIENT SETUP and A/P keys together. Use the "+" and "-" keys to adjust the pulse time.

MASSAGE (K-2 Elite only)

In this mode, the system delivers rapid alternating pressure, cycling quickly between high and low pressures to stimulate patient comfort.

1. To activate Massage mode, press the Mode key repeatedly until "MASSAGE" appears on the screen.

MULTI-THERAPY (K-2 Elite only)

Multi Therapy mode combines Static, Alternating Pressure (A/P), Pulse, and Massage modes for comprehensive patient care.

1. To activate Multi Therapy mode, press the Mode key until "MULTI" is shown on the display.
2. Use the TIME ADJUST keys ("+/-") to set the desired Multi Therapy duration.

FOWLER (K-1 Elite and K-2 Elite Models) *Optional K-1oem & K-2oem*

In Fowler mode, the system increases pressure in the torso section by 80% above the set pressure (up to a maximum of 32 ± 5 mmHg) to prevent bottoming out and maintain proper support.

(K-1 Elite and K-1oem Models)

Press the Fowler key when the patient is in an upright position (bed frame angled at 35° or more).

(K-2 Elite and K-2oem Models)

Press the Mode key until FOWLER mode appears, when the patient is in an upright position (bed frame angled at 35° or more).

AUTO FOWLER

When the head of the bed is raised to 35° or 45°, the system automatically activates Fowler mode without user input.

This function uses a low-power wireless sensor embedded in the mattress and is pre-programmed at the factory to either 35° or 45°, based on customer specifications. Powered by a +3.6V lithium battery (replace with KAP Medical part #100622-S).

LED Indicator Guide (When Battery Is First Installed):

- 3 green flashes = Auto Fowler set to 35°
- 4 green flashes = Auto Fowler set to 45°

During Operation:

- Green LED on = Transmitting; battery voltage is good
- Red LED on = Transmitting; battery voltage is low and should be replaced

PATIENT COMFORT CONTROL LEVEL

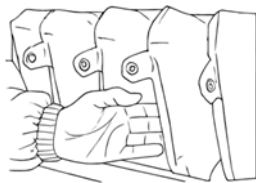
Adjusting Comfort Pressure

1. Use the **Comfort Control keys** or rotate the **pressure control knob**:
 - Turn **toward SOFT (down arrow)** to decrease pressure.
 - Turn **toward FIRM (up arrow)** to increase pressure.
2. Pressure settings range from **SOFT: 6 ± 5 mmHg** to **FIRM: 32 ± 5 mmHg**, depending on the model.
3. The system automatically adjusts to maintain the selected pressure.

Patient Setup and Pressure Check

1. Allow the mattress to fully inflate.
2. Lay the patient flat on their back in the center of the mattress.
3. Set the **Comfort Control key/knob** to the desired comfort level.
4. Wait **2 minutes** for the pressure to stabilize.
5. Perform a **four-finger check**:
6. Slide four fingers between the air cushions under the patient's sacral area.

7. There should be at least 3 to 4 finger widths of space between the patient and the safety foam base (note: overlays do not have a foam base).
8. Adjust the pressure as needed and repeat the check until the correct support is achieved.



RECOMMENDED PRESSURE SETTINGS

10. Guidelines

Use Max Inflate (W) for rapid mattress inflation or extra support during:

- Patient entry/exit
- Wound care
- Repositioning
- Cleaning

For patients with above-average weight-to-height ratios, increase comfort control pressure by 20% above the default.

ADDITIONAL FEATURES

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.

Battery (Optional – K-2 Elite Only)

To charge the battery, plug in the control unit to a power source.

While charging, a battery icon will appear on the display screen.

The battery is replaceable, but replacement should only be performed by a manufacturer-authorized technician if the battery is defective.

In the event of a power outage, the control unit will automatically switch to battery mode. The remaining battery charge will be shown on the display.

To conserve battery life when the system is not in use or is being stored, press and hold the designated keys. The screen will display "Disconnecting battery from system," and the unit will power off.

To reactivate the system using battery power after it has been disconnected, plug the unit into a power source. Once power is restored, the power cord can be unplugged to continue battery operation.

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.



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 any issue causing significant air leakage, the microcontroller will activate an audiovisual alert. On the K-1 Elite and K-2 Elite models, the digital display will flash 'LOW PRESSURE,' while on the K-1oem and K-2oem models, the amber 'LOW PRESSURE' LED will flash, accompanied by an audible beep. Once the low-pressure issue is resolved, the alert will stop, and the unit will automatically resume its previously set 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.

The product is sold with Bolsters activated. To deactivate the Bolster Mode: Order K-136-LAL Top Sheet and follow Bolster Deactivation Instructions under Calibration and Settings.

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. Connect the Control Unit**
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** (K-1oem & K-2oem) or **22 mmHg** (K-1 Elite & K-2 Elite). Allow the unit to fully inflate the mattress. The control unit will automatically stop once the desired pressure is reached.
- 3. Disconnect and Store Components**
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.

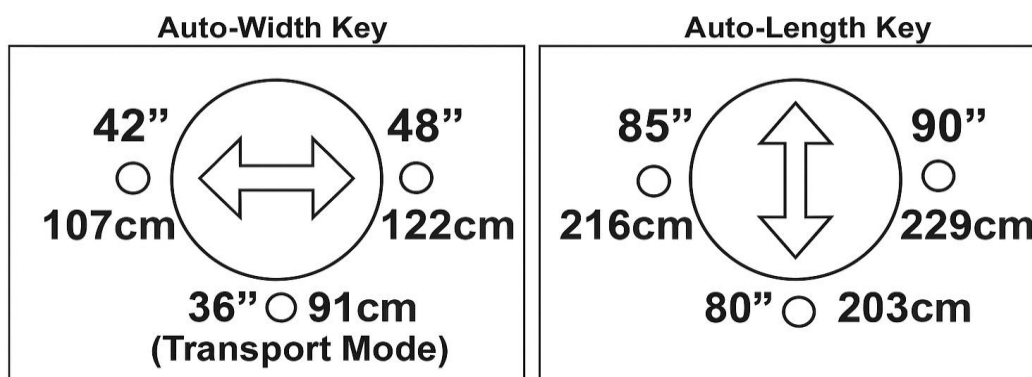
Note: The mattress is now ready for use as a non-powered support surface. Periodically check firmness to ensure adequate patient support.

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.

AUTO-EXPANSION MATTRESS/AUTO VARIABLE LENGTH (Optional)

The mattress can expand in width (36" Transport Mode, 42", or 48") and/or length (80", 85", or 90") by pressing the corresponding Width or Length keys on the control unit. This feature is available only on Auto-Expansion or Auto Variable Length models.



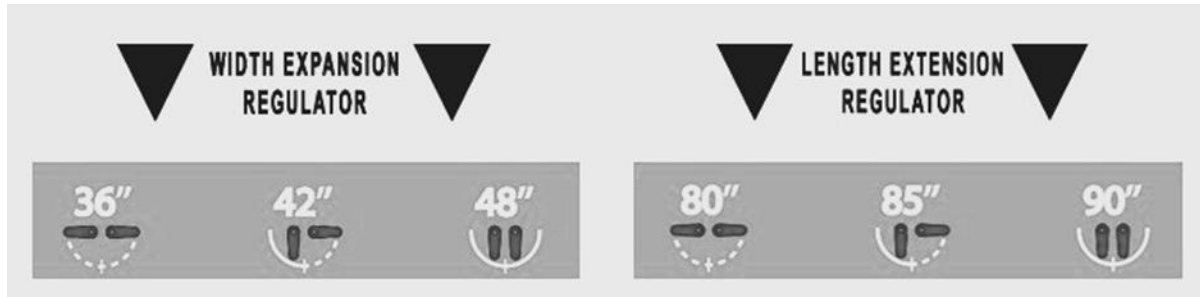
EXPANDABLE MATTRESS SYSTEM (XMS) / EXPANDABLE LENGTH MATTRESS SYSTEM (EL)

The mattress can be expanded in width and/or length using the expansion regulator valves located at the foot end of the mattress.

- The Expandable Mattress System (XMS) includes two (2) regulator valves:
 - Width Expansion Valve – Located on the patient's right, at the foot end of the mattress.
 - Length Extension Valve – Located on the patient's left, at the foot end of the mattress.

These valves allow the caregiver to adjust the mattress dimensions according to the desired width and length settings.

- If the system is an Expandable Length (EL) model only, it will include only the Length Extension Valve on the patient's left side.



Width Expansion

To inflate mattress to **36"** in width, align both red valves to upward position.

To inflate mattress to **42"** in width, rotate the left valve to the downward position, and the right valve to the upward position.

To inflate mattress to **48"** in width, align both red valves to downward position.

Length Expansion

To inflate mattress to **80"** in length, align both red valves to upward position.

To inflate mattress to **85"** in length, rotate the left valve to the downward position, and the right valve to the upward position.

To inflate mattress to **90"** in length, align both red valves to downward position.

When expanding or contracting the Expandable Mattress System (XMS) or Expandable Length Mattress System (EL), adjust the straps to match the mattress width by tightening or loosening them as needed.

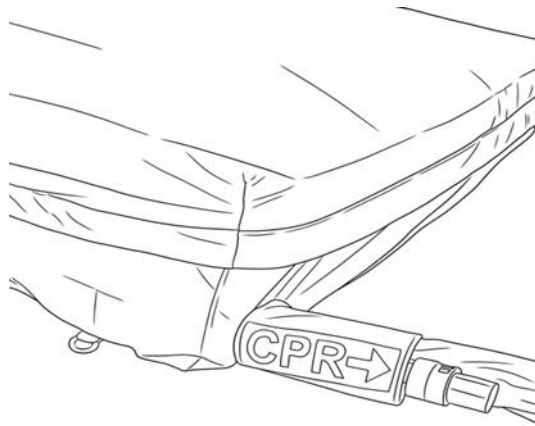
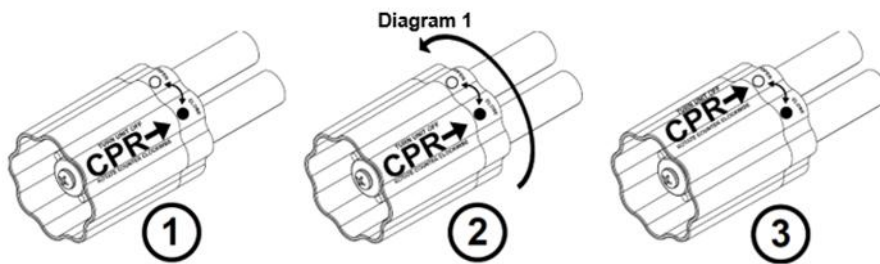
CPR Function



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)



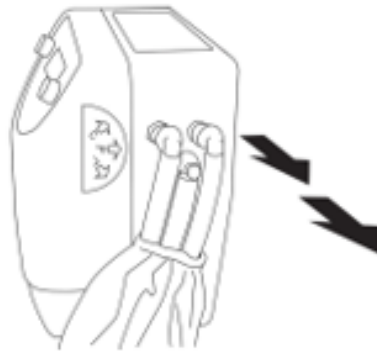
CPR Valve
(Located at the foot of the mattress)

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

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

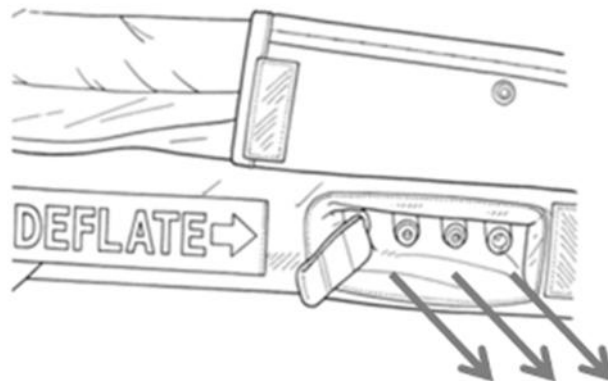
Step 2: Disconnect the mattress hose connector from the control unit. (Diagram 2)

Diagram 2



Or

Foam Aire Mattress



Patient Transportation

1. AIR MATTRESS

Transporting a Patient While Remaining on the Bed:

The expandable mattress system (optional feature) allows the mattress width to be reduced to 36 inches for transport mode.

- For manual expansion, adjust the expansion valves to achieve the desired width.
- For automatic expansion, use the control unit display to set the mattress width.
- Push in the side rails to allow for faster deflation during transport or storage.

- 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



Warning: If equipped, remove the Auto Fowler sensor before laundering. The sensor is located inside a small pocket at the mattress base, patient's right-hand side, 12–15 inches from the head.

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.

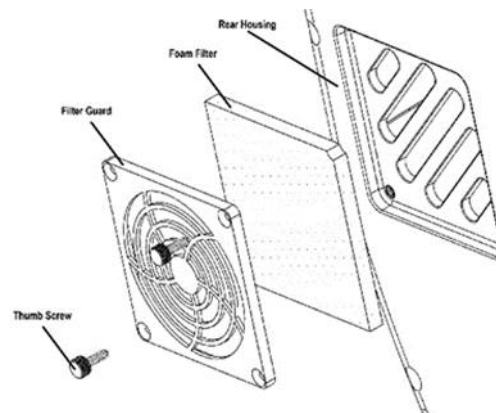
UNIVERSAL (UM) AND EXPANDABLE (XM) MATTRESSES

1. Wear protective gloves and eye protection.
2. Prepare disinfectant solution (see Control Unit, step 2).
3. Remove UM or XM valves (located at foot of mattress).
4. Follow Air Mattress cleaning instructions.
5. Reattach valves using color-coded connectors after cleaning.

Maintenance

- Regularly test the control unit to ensure proper functionality.
- An out-of-specification air pressure reading can compromise patient support.
- All preventive maintenance service, performance and electrical tests, or repairs should be performed by factory authorized and qualified technical personnel only.
- **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.



Calibration and Settings

SETTING	K-1 ELITE	K-1OEM
<p>Calibration (Control Unit must be in Stand-By mode and the mattress hose disconnected)</p>	<p>Press and hold "Alarm Silence", "Soft" & "Firm" keys until unit beeps. (Approx. 3 seconds). Unit will display calibration instructions.</p>	<p>Press and hold "Mode", "Alarm Silence" & "Lock" keys until unit beeps. (Approx. 3 seconds). 7-segment will display "C" for calibration, static LEDs will be flashing. Press "Mode" key to complete calibration and end routine.</p>
<p>Auto Fowler Set-up (Control Unit must be in Stand-By mode)</p>	<p>Place new Fowler Transmitter (in bed or external) to the flat position. Press and hold "A/P" & "Fowler" keys until unit beeps. (Approx. 3 seconds). Tilt transmitter/bed to fowler position, unit beeps, unit returns to stand-by mode. Routine will auto time out in 2 minutes if no transmitter is detected.</p>	<p>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 the transmitter/bed to fowler position, unit will beep and return to stand-by mode. To end routine without new fowler, press "Fowler" key. Routine will automatically time out in 30 seconds if no transmitter is detected.</p>
<p>Set A/P Low Value K-1 Elite (Control Unit Must be Powered on) K-1oem (Control Unit must be in Stand-By mode)</p>	<p>During Alternating Pressure therapy, Press and hold (about 3 seconds) the "AP" key. AP settings will be displayed on the screen. Use the (L) "+" and "-" keys to adjust the Low AP percentage value (0% to 80% mmHg of high-pressure setting). Press the AP key to save setting and continue AP therapy. Unit will time out and setting will be set automatically within 30 seconds.</p>	<p>Press and hold "Alarm Silence" & "Fowler" keys until unit beeps. (Approx. 3 seconds). 7- segment will display (AP Low modes) "0" (0% mmHg of high comfort pressure setting), "2"(25% mmHg of high comfort pressure setting), "5"(50% mmHg of high comfort pressure setting) or "7"(75% mmHg of high comfort pressure setting) Use the Soft /Firm keys to toggle between AP Low modes To end routine and accept setting, press "Power" key.</p>

Not applicable for K-1oem SGS

SETTING	K-2 ELITE	K-2OEM
Calibration (Control Unit must be in Stand-By mode and the mattress hose disconnected)	Press and hold "Alarm Silence", "Soft" & "Firm" keys until unit beeps. (Approx. 3 seconds). Unit will display calibration instructions.	Press and hold "Mode", "Alarm Silence" & "Lock" keys until unit beeps. (Approx. 3 seconds). 7-segment will display "C" for calibration, Static LEDs will be flashing. Press "Mode" key to complete calibration and end routine.
Bolster Deactivation Instructions	Press and hold "Alarm Silence", "Soft", and "Firm" keys until unit beeps Press "Bolster" key to toggle between "Bolster ON/OFF". LED on indicates Bolster is activated	The bolster function can be turned on or off using the "DISPLAY/MODIFY BOLSTER FUNCTION" routine. When Active, the unit will fill and monitor the attached bolsters. When Inactive, the unit will not try and fill any bolsters and will ignore all bolster functions and readings. The default setting from calibration is Bolster Inactive.
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). Unit will display set up instructions. Routine will auto time out in 2 minutes if no transmitter is detected.	Place Fowler Transmitter in a flat position. Press and hold "Mode" & "Lock" keys until the unit beeps. (Approx. 3 seconds). "L" will appear on the 7-segment display. Tilt the 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-1 Elite (Control Unit Must be Powered on) K-1oem (Control Unit must be in Stand-By mode)	Press the "Mode" key during Alternating pressure therapy. AP settings will be displayed on the screen. Use the (L) "+" and "-" knob to adjust the Low AP percentage value (0% to 75% mmHg of high-pressure setting). Max can be pressed to activate ZIP (Zero Interface Pressure, 0% mmHg of high-pressure setting). Press AP key to save setting and continue AP therapy.	Press and hold "Lock" & "MAX" keys until unit beeps. (Approx. 3 seconds). 7- segment will display (AP Low modes). "0" (0% mmHg of high comfort pressure setting) or "2" (25% mmHg of high comfort pressure setting) or "5" (50% mmHg of high comfort pressure setting) or "7" (75% mmHg of high comfort pressure setting) Use the Soft and Firm keys to toggle between AP Low modes. To end routine and accept settings, press "Power" key. Routine will auto time out in 30 seconds if no key is pressed.
Change Inclinator/Fowler Angle (if included)	Press and hold the "LOCK" and "PSETUP" keys until the unit beeps and displays the fowler angle. Press the "+" and "-" keys to change threshold angle from 25 to 45 degrees in 5 deg increments Press "STBY" key to end, or unit will time out in 25 seconds and return to standby	Not included

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. Compressor 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:	40 W \pm 15 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:	360 lbs. (163 Kg.) maximum
Pediatric Replacement Mattress:	360 lbs. (163 Kg.) maximum
Standard Replacement Mattress:	500 lbs. (227 Kg.) maximum
Bariatric Replacement Mattress:	1000 lbs. (454 Kg.) maximum
Convertible Foam Aire Std. Mattress:	500 lbs. (227 Kg.) maximum
Convertible Foam Aire Bar. Mattress:	1000 lbs. (454 Kg.) maximum
Pressure Zones:	2
AP Zones	2
Max Flow:	42 ~ 52 LPM
Inflation Time:	5 ~ 15 Minutes

Patient Comfort Control Pressures / Alternating Pressure (K-1/K-2)

Soft Pressure:	6 \pm 5 mmHg
Firm Pressure K-1:	32 \pm 5 mmHg
Firm Pressure K-2:	31 \pm 5 mmHg
AP Time:	1 Min. – 99 Min.
AP Low Pressure:	0% - 80% (K-1 Elite) 0% - 75% (K-2 Elite)

Patient Comfort Control Pressures / Alternating Pressure (K-1oem/K-2oem)

Soft Pressure:	7 \pm 5 mmHg
Firm Pressure:	32 \pm 5 mmHg
AP Time:	1 Min. – 99 Min.
AP Low Pressure:	0%, 25%, 50% or 75% (K-1oem) 0% or 50% (K-2oem) of

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:	12" x 6.75" x 10.5" (30cm x 17cm x 27cm) (K-1, K-2 Elite) 13.5" x 6" x 11" (34cm x 15cm x 28cm) (K-1oem, K-
Weight:	K-1, K-1oem = 10.5 lbs. (4.8 Kg.), K-2 = 12 lbs. (5.5 Kg.)
Power Cord:	14' (427 cm) Hospital Grade
Connection:	(2) ¼" flow plastic quick couplings (K-1, K-1oem)
Connection:	(2) ¼" flow plastic quick couplings (K-2, K-2oem)
Air Filter:	Internal, non-replaceable

Mechanical Specification (Mattress)

Air Cushions:	Heat-sealed, liquid proof and washable	
Base:	Liquid proof and washable	
Top Sheet:	Low-friction, low-shear, and high vapor-permeability	
Bottom layer:	Consists of either a 1" or 2" foam pad, or a 2" air pad,	
Foam Aire™ assembly:	Enclosed within a Kevlar fire barrier.	
	TB129, 1632 & 1633 compliant	
Mattress tolerances:	Length. Pass= ± 2", width. Pass = ± 1", height. Pass = ± 1"	
Mattress Dim. & Weight (K-1 Series):	80"L x 36"W x 10"H	19 lbs.
Mattress Dim. & Weight (K-2 Series):	80"L x 36"W x 10"	9 lbs.

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 1st Ed.
 ETL Listed 3rd Ed. (EU and UK)
 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:

- (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.

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-1 and K-2 Mattress 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 dispose of this product in household trash. 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.