

Lateral Transfer System Air Supply

AMT120

User Manual



COMPLIES WITH UL 60601-1 MEDICAL ELECTRICAL EQUIPMENT
COMPLIES WITH IEC 60601-1, 60601-1-2, CSA C22.2 NO 601.1-M90, CENELEC EN 60601-1, UL-E139592,
CENELEC EN 60601-1-2, CE Medical Device Directive, Safety, EMC Tested, UL-E126368

Introduction

This manual provides instruction on the safe operation and maintenance of the Air Movement Technologies Inc. lateral patient transfer system air supply offered by Keith Medical Equipment. Safety information and cleaning instructions are included.

System Description

AMT120 is for use in the US and Canada. The AMT120 consists of an air supply and air hose. It is designed to be used with compatible lateral air transfer mattresses manufactured by others.

Environmental Specifications:

Operating

Ambient temperature range	10 to 40 C (50 to 104 F)
Relative humidity	20to 80%, non-condensing
Altitude	Sea level to 2440 meters (375 to 1100 hPa)

Transport and Storage

Ambient temperature range	-25 to 70 C (-13 to 158 F)
Relative humidity	5 to 95%, non-condensing
Atmospheric pressure range	Sea level to 40,000 Ft

Applicable Standards

The AMT120 air supply has been tested by Intertek Testing Services NA, Inc. and complies with the regulatory safety requirements and design standards of the following:

UL 60601-1 (2003) *Medical Electrical Equipment, Part 1:General Requirements for Safety*

IEC 60601-1 (1998)

Medical Electrical Equipment, Part 1:General Requirements for Safety +A1(91)+A2(95)

EN 60601-1 (1990)

Medical Electrical Equipment, Part 1:General Requirements for Safety +A1(91)+A2(95)

CAN/CSA C22.2 No.601.1-M90 (1990)

Medical Electrical Equipment, Part 1:General Requirements for Safety

Power conductors comply with IEC 227, IEC 245, UL 62 and US Deviations from CB Bulletin 105A dated May 2003, Power Supply Cord complies with UL 498 and IEC 227 designation 53 and IEC 245 designation 53, Equipment complies with IEC 601-1-2 Electromagnetic Compatibility, Materials comply with ISO 10993-1 Biocompatibility, Equipment complies with National Electrical Code, ANSI/NFPA 70, Compliant with Flammability, mechanical abuse and mold stress relief referenced by UL 746C, complies with IEC 529 for protection against ingress of water, EN 45001 compliant

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Safety Information

Never leave patient unattended while a transfer mattress is inflated and the air supply is on.

- Device is intended for Short Time Operation (on for one minute, off for one minute).
- Type of protection against electric shock: Class II equipment.
- Degree of protection against electrical shock: Type B equipment.
- This device is classified as ordinary equipment and offers no protection against harmful ingress of water, IPX0.
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.
- Maximum leakage current measured to be 3.9 microamps on air supply enclosure and 3.9 microamps on air mattress.
- Do not operate air supply motor near equipment that is sensitive to electromagnetic interference.
- No automatic pressure relief exists on device. If pressure relief is desired, turn air supply off or disconnect air hose.
- Although there is no actual weight limit for the air supply, the transfer mattress, the bed, gurney or other surface that the air supply is being used on does have a weight limit and those limits need to be adhered to.



indicates **Class II** device



indicates **Alternating Current AC**



indicates **Type B** equipment



indicates user must **reference accompanying documents** prior to use



indicates power **off** position on green power rocker switch



indicates power **on** position on green power rocker switch

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Placing a transfer mattress underneath a patient

1. The following are general procedures for an air assisted lateral transfer. **You must follow your manufacturer's specific instructions.**
2. Whenever possible, a two-person transfer is recommended (one person on each side).
3. Roll the mattress lengthwise towards center from one side such that the side with the perforations will be against the bed, not the patient.
4. Make sure that the patient's head is located at the same end at the "HEAD" end of the mattress. Place the mattress under the patient using a "log-rolling" technique. Simply roll the patient on to their side toward the attendant, and then place the rolled edge of the mattress against the patient. Roll the patient back towards the opposite side enough to unroll the mattress as you would when changing a bed sheet. Center the patient on the mattress.
5. Attach the patient safety straps in gentle contact with the patient. Straps need not be tight.

Connecting the AMT120 air supply

Plug the power cord of the air supply into the air supply and then into the electrical outlet on the wall. Attach the flexible hose into the air supply and then into the mattress at the side near the patient's feet that will allow travel of the hose without binding. Use the snap or strap to secure air hose to the mattress.

Typical Transfer of Patient – Stretcher to Bed

1. Bring the stretcher alongside the patient's bed as close as possible. Securely engage the brakes and raise the stretcher side rail on opposite side.
2. Adjust the bed or stretcher height so that they are as close to the same level as possible.
3. If the space between the patient's bed and stretcher is greater than 3", use a transfer bridge to fill the gap.
4. Verify that no siderail, accessory or sharp object obstructs the path of the mattress and that the air hose is free to travel with the mattress. Verify that all patient support systems such as I.V. lines or oxygen hoses are free to travel with the patient and that the attendant is positioned in the direction of patient transfer.
5. Lift the power switch safety cover and turn ON the air supply by pressing the switch to the "I" position. Lower the safety cover and wait approximately 6 seconds for the mattress to fully inflate.
6. Once the mattress is fully inflated, grasp the handles of mattress while keeping your back in the neutral ergonomic upright posture and with one firm continuous pull, move the patient towards the attendant to the desired surface ending with the patient centered on the new surface. If moving from a higher surface to a lower surface, move the feet first and then bring the upper body over after the feet are almost at the intended destination. If moving from a lower surface to a higher surface, move the upper body first and then the feet using the same type of diagonal pulling motion.
7. Turn OFF air supply by pressing the switch to the "O" position. Unplug power cord from wall and air supply.

CAUTION: Never leave patient unattended when *AirMatt* mattress is inflated and air supply is on.

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Technical Specifications

Air Supply

AMT120

110-120 VAC, 50/60 Hz, 1200W

Power cord – medical grade SJT 3-18 Type

Weight 5.5 lbs(2.5kg)

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ONE YEAR WARRANTY A LIMITED WARRANTY

For one year after the original date of purchase, Keith Medical Equipment or its Authorized Service Centers, will repair this system (or at its option, replace with a like product) free of charge if defective in material or workmanship. This Limited Warranty does not include damage caused by accident, neglect, misuse or improper installation or operation, any damage caused from unauthorized repairs, maintenance, modifications or tampering by anyone other than an Authorized Service Representative or conditions beyond the control of AMT or KME, or operation of the system in excess of the specifications or with the Serial Number Label removed.

AMT DISCLAIMS ALL OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT TO THE EXTENT THAT ANY WARRANTIES IMPLIED BY LAW CANNOT BE VALIDLY WAIVED.

No oral or written information or advice given by KME, its Authorized Service Centers, distributors, dealers, agents, or employees, shall create another warranty or modify this warranty. This warranty states KME's entire liability and is your exclusive remedy against KME for any failure of the system to operate properly.

Neither KME nor anyone else involved in the development, production, or delivery of this air supply shall be liable for any indirect, incidental, special, consequential, exemplary, or punitive damages, including lost profits, rising from the use or inability to use the product, even if advised of the possibility of such damage. Because some states do not allow the exclusion or limitation of consequential or incidental damages, the above limitation may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights, which vary from State to State.

Assistance under this Limited Warranty is available through KME's Customer Support during normal business hours, Monday through Friday, excluding holidays by calling: 800-506-9870.

Keith Medical Equipment, 1 Turtle Grove Lane, Golf, Florida 33436 (800-506-9870)

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