



PRIMECARE® AP10
BLOWER ASSEMBLY OWNER'S MANUAL

8401 Southern Blvd.,
Boardman, OH 44512
1.877.638.2776
330.965.9683
www.primusmedical.com



OPERATING INSTRUCTIONS

AP-10 SERIES

Generation 2 AP-10

ECONOMY ALTERNATING PRESSURE SYSTEM

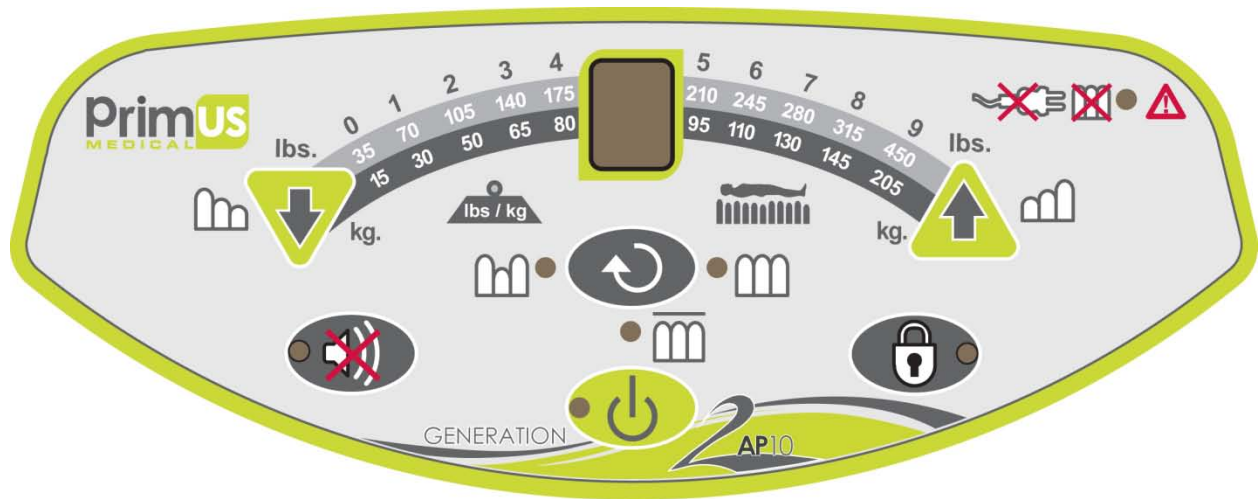


TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Danger, Caution and Warning	4
Manufacturer's Liability	5
Explanation of Symbols Used	6
Technical Specifications	7
Safety Instructions	10
Unpacking the System	11
Quick Reference Guide	12
System Diagrams and Set-Up	14
Operating Instructions	17
CPR Function	20
Patient Transportation	20
Cleaning Procedure	21
Care and Storage	22
Troubleshooting Guide	23
Preventive Maintenance	24
Accessories Spare Parts	24
Warranty Information	24

DANGER

◆EXPLOSION HAZARD◆

DO NOT USE CONTROL UNIT IN THE PRESENCE OF FLAMMABLE ANESTHETICS OR AN OXYGEN TENT

- **NOTE: Warning / Caution** notices used in the manual apply to hazards or unsafe practices which could result in personal injury or property damage.

Caution:

- Do not use in the presence of smoking materials or open flame. Air flowing through air mattress will support combustion.
- Risk of electrical shock. Do not remove control unit back cover.
- Refer servicing to qualified service personnel.
- Equipment should only be connected to a properly grounded three pronged wall outlet using the 10~14 foot (305~427 cm) hospital grade power cord provided with the product.

Warning:

- Never drop or insert objects into any opening of the control unit.
- Please read this manual before operating AP-10 series system. If you are unable to understand the manual fully or partially, please contact your dealer or the manufacturer before attempting to use this equipment. Otherwise personal injury or property damage may result.



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















MANUFACTURER'S LIABILITY

PRIMUS MEDICAL'S original warranty on the AP-10 ALTERNATING PRESSURE SYSTEM will remain in effect during the warranty period provided any changes, readjustments, or repairs have been carried out by a factory authorized service center or a technician of PRIMUS MEDICAL, or whenever the control unit and mattress system has been used according to the following operating instructions.

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

Generation 2 AP-10

EXPLANATION OF SYMBOLS USED ON THIS DEVICE

SYMBOL	EXPLANATION
 POWER	Turns unit On / Off.
 SOFT  FIRM	Up or Down key adjusts patient comfort pressures levels.
 Max Inflate	Inflates mattress rapidly (45 minute timer).
 Therapy	Selects Static mode.
 Alternating Pressure	Selects Static or A/P Time (Alternating Pressure (A/P) therapy time). A/P time set to 10 minutes.
 Power Fail  Low Pressure 	In the event of power failure or if the hose is disconnected an audio /visual alarm will sound.
	Indicates the point of attachment of the equipment to earth (Grounding Point).
	Attention: Instructs end user / care giver / operator to refer to the manual.
	Indicates that the degree of protection against electrical shock is TYPE BF.
	Not for use in presence of flammable anesthetics.
	Risk of electrical shock, do not remove back cover.

TECHNICAL SPECIFICATIONSELECTRICAL SPECIFICATIONS

	<u>U.S. / INTL.</u>
Input Voltage AC:	90 / 240 V
Input Frequency:	60 / 50 Hz
Current:	1A
Maximum Power Consumption:	5 ± 3 W
Circuit Protection:	Dual fused, 250V, 1A slow blow fuses.
Mode Of Operation:	Continuous

PERFORMANCE SPECIFICATIONSWeight Capacity:

Standard Mattress: 360 Lb. (160 Kg.) maximum.

	<u>U.S. / INTL.</u>
Pressure Zone:	2
Max Flow:	8 ± 4 LPM
Max Flow Pressure:	35 ± 5 mmHg
Max Flow Timer:	45 minutes
Support Surface Inflation Time:	40–60 minutes.

Patient Comfort Control Pressures

Soft Pressure:	8 ± 4 mmHg
Firm Pressure:	32 ± 4 mmHg
Cycle Time (K-0):	5, 10, 15, 20 Min
Cycle Time (K-0 oem):	10 Min

Patient Contact:

Control unit and mattress are Latex-Free.

MECHANICAL SPECIFICATIONSControl Unit (A)

Dimensions, LxWxH:	10" x 5" x 5"	(25cm x 13 x 13cm)
Weight:	5 lbs. (2.2Kgs)	
Power Cord:	10'/14' (305–427 cm) Long detachable 16–18 AWG Hospital Grade.	
Connection:	¼" flow plastic quick couplings	

Packaging: 1~3 Piece per Box.

Air Filter: Integral, non-replaceable.

Support Surface (B)

Optional 1632 & 1633 compliant mattresses are available.

Standard Support Surface

Air cushions: 70 denier urethane coated nylon, R.F. welded, liquid proof and washable. Cal.117 pass.

Base: 1000 denier cordura, liquid proof and washable. Cal.117 pass. Optional 1632 & 1633 compliant mattresses are available.

Top Sheet: 70 denier urethane coated nylon, low friction, low shear force producing, breathable, liquid resistant and highly vapor permeable. Cal.117 pass. **Optional Low Air Loss top sheet** has 3 layers: Top layer is breathable nylon, air distribution special spacer material for middle layer, and the bottom layer is water resistant nylon.

Description	Inflated Dim. LxWxH	Weight
Overlay:	80" x 36" x 5" (203x89x13cm)	8 lbs. 3.6 Kg.
Mattress:	80" x 36" x 8" or 10" high (203x89x20.5 or 25 cm)	23 lb. 10.5 Kg.

Packaging: 1 Piece per Box

ENVIRONMENTAL SPECIFICATIONS

Operating Conditions:

Ambient Temperature: 50° ~ 104° F
 10° ~ 40° C
 Relative Humidity: 30% ~ 75% Non-Condensing
 Atmospheric Pressure: 70 kPa to 106 kPa

Storage And Shipping Conditions:

Ambient Temperature: -40° ~ 158° F
 -40° ~ 70° C
 Relative Humidity: 10% ~ 100%
 Atmospheric Pressure: 50 kPa to 106 kPa

Protection Against Harmful Ingress Of Liquids:

Ordinary Protection (IPXO)

Mattress Sanitation:

Complete support surface is made of superior quality materials and is modular in construction. All components such as manifold, hose assembly, air cushions, top sheet, and foam base are interchangeable and can be easily cleaned or detached for laundry.

SAFETY AGENCY APPROVALS

ETL Listed:



To standard for safety of Medical Electrical Equipment

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

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



CE Mark:

Flame Resistance:

Unit components meet UL 94V-0.
Mattress components pass
California117.

Optional 1632 & 1633 compliant mattresses are available.

FDA REGISTRATION

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

Products are FDA listed.

PRIMUIS MEDICAL'S quality system meets the requirements of FDA 21 CFR, PART 820-Good Manufacturing practices for medical devices and ISO 13485.

Health Canada Medical Device Licensed.











ISO 13485 certified company.


Medicare coded (SADMERC).


PATENTS

US: Patent Pending


SAFETY INSTRUCTIONS

-  Always consult the patient's physician before using the AP-10 series system.
-  To avoid damaging and before operating your AP-10 series control unit, be certain the AC power available at your location matches the power requirements printed on the product identification label on the back of the unit.
-  To avoid electric shock, always plug the power cord of the control unit into a properly grounded power source.
-  Do not insert items into any openings of the control unit. Doing so may cause fire or electrical shock by shorting internal components.
-  Do not spill liquids or food on or into the control unit. In the event of any spillage, immediately turn off the control unit and disconnect it from the power source. Return the control unit for servicing to a factory authorized service center.
-  Care should be taken such that the controls on the footboard of the bed frames are not obstructed by the AP-10 series control unit.
-  Care should be taken such that the control unit is not blocked, and kept away from any heat sources or radiators during the operation of the unit.
-  Care should be taken such that the power cord of the control unit is not pinched, or has any objects placed on it. Make certain it is not located where it can be stepped on or tripped over.
-  Do not attempt to service the control unit except as explained in this operating instruction manual. Contact factory for servicing instructions. Always follow operating and service instructions closely.
-  Do not place the patient directly on the mattress without the top sheet. The breathable nylon top sheet is water repellent; highly vapor permeable, anti-microbial, low friction and low shear, quilted and reusable.

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

 Smoking by the patient or anyone else around or on the AP-10 series system is prohibited. AP-10 series system uses room air for circulation through the mattress. Smoking will contaminate the system.

UNPACKING THE SYSTEM

 **Note:** When opening the large system box or the small control unit box, care should be taken such that the object used to open the box does not penetrate and damage the components inside.

Components Supplied:

AP-10 / AP-10 series System Box

1 Control Unit Box
1 Mattress

Control Unit Box

1 Control Unit
1 Operating Instruction Manual
1 Power Cord


Unpacking and Inspection

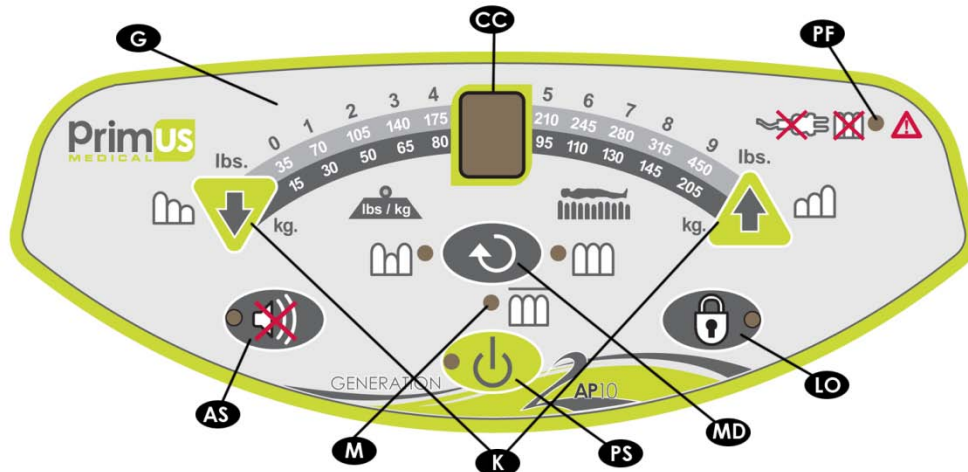
Before accepting and signing for the box or boxes, please inspect the box or boxes for external and internal damages. Verify that the number of boxes listed on the packing list matches the number boxes received. Also verify that no components are damaged or missing. Report any missing boxes, missing components and or damages to the transportation carrier immediately.

AP10

QUICK REFERENCE GUIDE

Page 12

 **THIS DOCUMENT IS FOR QUICK REFERENCE ONLY. PLEASE READ THE MANUAL BEFORE OPERATING THE AP10 SYSTEM**



DISPLAY PANEL (G): Displays all of the ECO-ZONE™ product functions.

POWER SWITCH (PS): Press power switch to turn ON or OFF the unit. Amber Light On = Main Power is On but Control Unit is Off, Green Light On = Control Unit is operating.

THERAPY (MD): To select **Alternating Pressure (AP)** therapy mode, **Static** mode or **Max inflate** mode. Press key to activate Static Mode (indicate by LED 'M') **Max Inflate** or **AP** Mode. AP mode has a preset time of 10 minutes AP time. Max Inflate will automatically timeout after 45 minutes and return to the previous setting. Max Inflate may also be disengaged before the 45 minute timeout with this button.

SOFT & FIRM keys (K): Used to adjust patient comfort pressure levels up or down.

COMFORT CONTROL (CC): Seven segment LED displays the patient comfort pressure level.

POWER FAIL (PF): Audiovisual alarm in the event of power outage. Has internal memory, will retain previous settings during power outage.

LOW PRESSURE (LP): Audiovisual alarm in the event of mattress hose disconnection.

◆ QUICK OPERATING INSTRUCTIONS ◆

1. Unroll the AP-10 series mattress and place it on the bed frame and attach it firmly with straps. Hang the AP-10 series control unit on the footboard and make sure that the mattress hose assembly is connected securely to the control unit.
2. Place patient on the mattress. Plug the hospital grade power cord provided with the unit into a three pronged hospital socket, the amber "STANDBY" LED will light up. Press power switch, green LED lights up, and then press MAX FLOW. The pump will come on and inflate the mattress.
3. Using "SOFT" / "FIRM" keys set patient comfort pressure level. Seven segment LED will display the patient comfort pressure level.
4. To set Alternating Pressure therapy mode press the Mode key and select appropriate AP time from 4 different AP times. An AP time LED will light up. To change AP time simply press Mode key to light up appropriate AP time LED. In this mode every other air cell in the mattress will change pressures from high to low or low to high.
5. To set THERAPY (STATIC) mode press MODE key until STATIC LED lights up. In this mode constant pressures are maintained in each of the 2 zones of the mattress.
6. For CPR or quick deflation, disconnect mattress hose connector from the control unit by simply squeezing both buttons of the large body couplings and pulling them away from the control unit.
7. The mattress has a 2" safety convoluted foam pad or optional 2" air pad to provide support to the patient during transportation or power failure.

System Set-Up

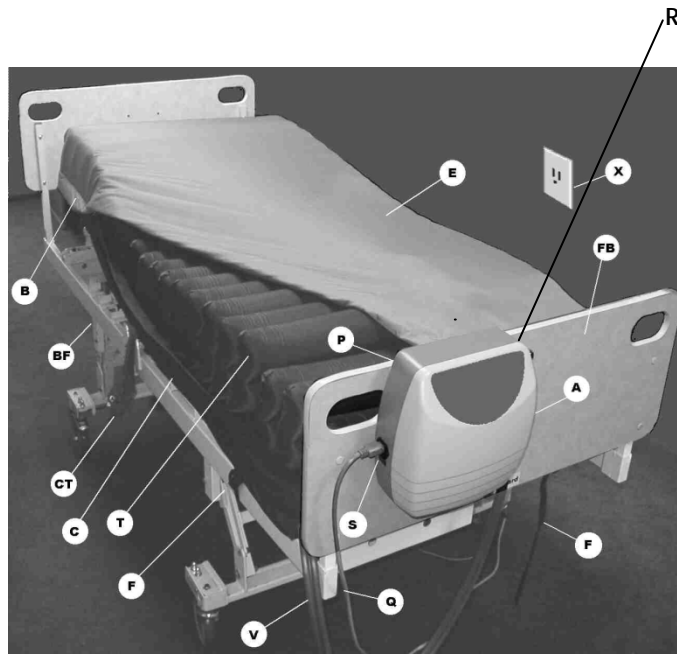


Figure -1

PLEASE NOTE:

It is highly recommended that the AP-10 series SYSTEM always be used on beds that are equipped with standard hospital side rails.

Please raise all 4 side rails on the bed and lock them in position after the patient is on the mattress.

CONTROL UNIT DISPLAY PANEL

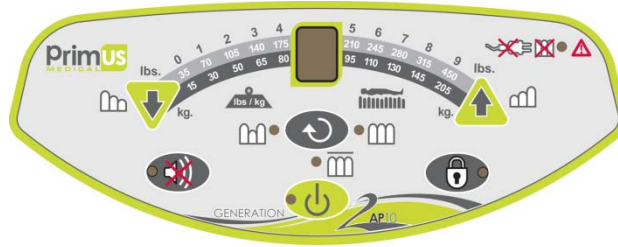


Figure – 2

CONTROL UNIT RIGHT SIDE



Figure – 3

CONTROL UNIT LEFT SIDE

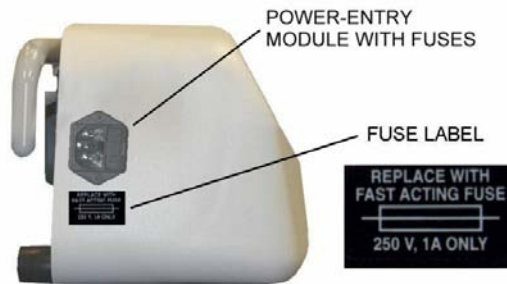


Figure – 4

CONTROL UNIT REAR



Figure – 5

1. Before using the AP-10 ALTERNATING PRESSURE mattress replacement system, remove any non AP-10 mattress system from the bed frame (BF).
2. **AP-10 Overlay system:** When using a AP-10 Overlay mattress, care should be taken such that the overlay is placed directly on an existing 3" to 5" foam mattress.
3. **Overlay System:** There are two elastic straps, one at the head and the other at the foot section. Two long straps on one side and two short straps with buckles on the other side of the overlay. Insert head and foot elastic straps around the foam mattress. Loop each long side strap around the foam mattress and fasten it securely to the foam mattress using the buckle.
4. **AP-10 Mattress Replacement system:** When using a AP-10 mattress replacement system, unroll the AP-10 mattress (B) and place it on the bed frame (BF). Note: Make sure that the hose end of the mattress is towards the foot of the bed.
5. **Mattress Replacement System:** There are six ~ ten nylon black straps with buckles (F), two straps at the head of the mattress, two on the foot of the mattress, and three on the each side of the mattress shown. Loop each strap around the bed frame and fasten it securely to the bed frame using the buckle.
6. Unroll the AP-10 Replacement Mattress and place it on the bed frame (BF). Note: Make sure that the hose end of the mattress is towards the foot of the bed.
7. Open the hooks (P) on the back of the control unit (A) and suspend the control unit from the footboard (FB) of the bed (BF). If the bed you are using does not have a footboard, place the control unit (A) on its base or on its back on a flat surface underneath the bed near the foot of the bed frame (BF). Note: Care should be taken such that the air inlet vent on the control unit is not covered, and the control unit is not placed on the floor in such a manner that it is a hazard for flow of traffic.

- Uncoil the power cord (Q) and plug the cord into the appropriate AC power source (X), which is properly grounded. Plug the other end of the power cord into the control unit and press it in place. **Note:** Care should be taken such that the power cord of the control unit is not pinched, or has any objects placed on it. Also ensure it is not located where it can be stepped on or tripped over.



Figure-6


- Connect the mating coupling body (R) on the mattress or overlay pad hose assembly (V) into the insert on the control unit connector and lock it in place. Also make sure the CPR tag (CT) {if present} insert connector is securely connected into the mattress manifold body connector on the side of the mattress. **Note:** Make sure the connectors have a good connection by gently tugging on the three hoses. Also, care should be taken such that the mattress or overlay pad hose is freely suspended without being pinched or kinked.

OPERATING INSTRUCTIONS

Refer to figures on page 12 and following


- Make sure the mattress hose assembly (V) is connected securely to the control unit (A). Ensure the CPR Tag (CT) insert connector (if present), is securely connected into the mattress manifold body connector on the side of the mattress.

INITIAL POWER UP


- During initial power up (when power cord (Q) is plugged into the power source), the control unit (A) will be in "STAND BY" with the amber LED on.
- If the unit is in standby mode with amber LED is on,  press the power key and the green LED will turn on. Press Mode (FN); the Max Inflate LED (W) will light up and the pump will turn on at maximum flow.
- If the power comes on after a power outage, the control unit will go through its system initialization routine for few seconds and then resume the desired function.

OTHER THERAPY MODES

STATIC (M)

1. To set STATIC mode (M) press  (MD) key to "STATIC" position, green LED (M) lights up.
2. In STATIC mode all the air cushions in the mattress will be maintained at a constant pressure.



ALTERNATING PRESSURE (N)

1. To set ALTERNATING PRESSURE {N} mode, press the  (MD) key and light up one of the AP LED (N). The AP times are 5, 10, 15, or 20 minutes.
 - a. In the AP mode the odd numbered air cushions in the mattress will be maintained at a constant set patient comfort pressure, and the even numbered air cushions deflate to 0%, 25%, 50% or 75% of the set patient comfort high pressure in the first half of the AP cycle and vice versa for the second half of the cycle, and continue back and forth.

PATIENT COMFORT CONTROL LEVEL (CC)

The AP-10 series system is designed for patients weighing between 35 ~ 350 lbs. (25 Kg. ~ 160 Kg.).

Using the comfort control:

- a. Pressing the  SOFT key (K) towards pressure setting 0 position reduces the pressure setting, pressing the  FIRM key (K) towards pressure setting 9 position increases the pressure. The patient comfort pressure ranges from SOFT (9) 8 ± 4 mmHg to FIRM 32 ± 5 mmHg. Depending on the desired patient comfort level the micro-controller / sensors will set appropriate air pressure in the mattress, and maintain the desired pressure in the mattress.
- b. Once the mattress is inflated to its normal size with the patient lying on it, set the COMFORT CONTROL SETTING to the desired patient comfort level. Wait for the mattress pressure to stabilize. Verify the appropriate pressure required to support the patient by performing a simple "four finger check".



Ensure that the patient is lying flat on his or her back in the middle of the mattress. Place four fingers between the air cushions directly underneath the sacral region of the patient's body. There should be a minimum of 4 fingers width clearance between the bottom of the patient and the safety foam base. Repeat this procedure until the desired patient comfort pressure is achieved. (This does not apply to overlay mattress.)

RECOMMENDED PRESSURE SETTINGS

- a. For extra firm support during Patient ingress / egress, Patient wound care, Patient turning, or Patient cleaning it is recommended to set the mattress pressure to Max Inflate (W).
- b. If a patient's weight to height ratio is above average, it is recommended to set the comfort control to 20% more than the set pressure level.



LOCK OUT (LO)

Control unit functions (including power) can be completely locked out from being tampered with by simply pressing and holding the lock key until the light comes on (approximately 3~5 seconds).



ALARM SILENCE (AS)

An audio-visual alarm is sounded in the event of power failure or when the hose is disconnected from the unit.

Audio alarm can be muted by pressing alarm silence key.

FAILURE MODES



POWER FAIL (PF)

In the event of a power outage, the microprocessor will activate an audiovisual signal to alert the caregiver by flashing the amber "POWER FAIL" LED and the buzzer will turn on. Once the power is restored to the control unit, the audiovisual signal will cease and unit resumes operating its set mode. During power outage the mattress will retain air as long as the mattress is connected to the control unit.

 **LOW PRESSURE (LP)**

In the event of hose disconnection, the microprocessor will activate an audiovisual signal to alert the caregiver by flashing the amber "LOW PRESSURE" LED and the buzzer will turn on. Once the low pressure problem is fixed, the audiovisual signal will cease and the unit resumes operating its set mode.

HOLDS AIR IN THE MATTRESS DURING POWER OUTAGE

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

The mattress also has a 2" safety convoluted foam pad or optional 2" air pad to provide support to the patient when the mattress is deflated.

CPR FUNCTION**Refer to figure 1 on page 20**

1. To deflate the mattress / overlay pad or for a CPR procedure, press the quick release buttons on both the coupling bodies and simultaneously pull the hose from the control unit flange connector.
2. If OPTIONAL CPR tag is present on the mattress / pad, disconnect the red CPR tab connectors located on the side of the mattress.
3. In case of CPR emergency, and for quick deflation of the mattress, unzip the top sheet from the foot to the head by pulling the zipper located by the patient's right foot near the exit location of the hose assembly (on some mattresses by unfastening the top sheet straps from the side of the mattress). Disconnect a few air cushions which are directly below the patient's chest from the mattress by pressing the quick release button on the connector with one hand and pulling the air cushion connector with the other.

PATIENT TRANSPORTATION

1. To transport a patient without removing the patient off the bed, press mode key to set unit in "STATIC" mode and wait a few minutes for the mattress pressure to stabilize. Turn off the control unit, disconnect the power cord from the power source, and roll it up on the control unit securely.
2. To maintain full air pressure in the mattress or overlay, leave the mattress connected to the control unit at all times.

CLEANING PROCEDURE



WARNING

CONTROL UNIT

- ◆ Before attempting to clean the control unit, turn off the unit and disconnect the control unit power cord from the power source. ◆
 - ◆ **DO NOT HEAT, STEAM AUTOCLAVE, OR IMMERGE THE CONTROL UNIT IN LIQUIDS** ◆
1. Wear eye goggles and rubber gloves before starting cleaning procedure.
 2. The following germicidal detergents / disinfectants are recommended by the EPA as hospital disinfectants.
 - a. Johnson Wax, Virex 128, EPA Registration Number 47371-130-4822.
 - b. Quaternary Detergent-Disinfectant by Airkem Professional Products, Division of Ecolab, Inc., Ecolab Center, St. Paul, Minnesota. EPA registration number: EPA # 42964-5.
 - c. Hi-Tor Germicidal Detergent by Huntington Laboratories, Inc. Huntington, Indiana. EPA registration number: EPA # 303-91.

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

3. By following the preparation instructions provided with the germicidal detergent /disinfectant solution, prepare the required amount of solution.
4. Pour required amount into a spray bottle.
5. Use a brush or cloth to wipe off dust. If necessary, spray the exterior of the front and back of control unit, power cord, and the cord plug with the prepared disinfectant / detergent solution. Using a damp cloth, wipe down the sprayed surface cleanly.

Note: Do not spray excess amount of solution on the control unit.

6. Once the control unit is clean, wipe the unit, the power cord, cord receptacle, and the cord plug with a clean dry cloth.
7. Place the control unit in a cool and dry area for an hour before operating or storing the unit. If the control unit is not used immediately, place the control unit in a plastic bag and store it in a storage area designated for medical electronic products.

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

MATTRESS

The complete support surface of the mattress is made of superior quality materials and is modular in construction. All the components such as manifold, hose assembly, air cushions, top sheet, side bolsters, rotation bladders, foam or air pad cover, and mattress base are interchangeable and can be easily cleaned or detached for laundry.

1. Wear eye goggles and rubber gloves before starting the cleaning procedure.
2. Follow steps 2 through 4 above to prepare disinfectant solution.
3. Use a damp cloth to wipe down the air cushions and the mattress base. Once the air cushions and the base are clean, wipe them down with a clean dry cloth.
4. Top sheet will require more frequent washing. Set wash cycle to heavy load with warm water. Once the water is full add manufacturer- suggested quantity of laundry detergent and/ or standard hospital disinfectants. If the air cushions or the top sheet becomes soiled with human waste or blood, clean immediately by wiping down. Use hospital recommended laundry detergent and/ or disinfectant per manufacturer's instructions. **Note: Use non-chlorine bleach detergent.**
5. Once the washing cycle is complete, shake cushions gently to remove excess water from inside the air cushions. Dry the cushions/top sheet on the lowest heat settings on the dryer until completely dry.
6. Leave the mattress to dry in a cool, dry area for an hour before using or storing. If the mattress is not used immediately, roll the mattress and insert it into a plastic bag and store it in a storage area.
7. After the cleaning operations are completed, remove and dispose of the rubber gloves appropriately. Wash your hands thoroughly with antibacterial soap.

CARE AND STORAGE

1. When the control unit is not in use, turn off the unit, disconnect the power cord from the power source, and wrap the cord around the control unit. Secure the control unit and the power cord in a plastic bag and cable tie to keep the unit dust-free.
2. Roll the mattress and place it in a plastic bag and tie wrap the bag.
3. Store the control unit and the mattress in a storage area designated for medical electronic product storage.

TROUBLESHOOTING GUIDE

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

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

PROBLEM	CAUSE	SOLUTION
A. Mattress Not Inflating / Not Alternating Properly	<ol style="list-style-type: none"> 1. Mattress hose disconnected 2. Air hose kinked or split 3. Major leak in the air cushions or overlay pad 4. Kinked or split manifold 5. Has power and fuse is good, control unit does not come on 6. Not alternating, Solenoid malfunction 7. No air, Pump Malfunction 	<ol style="list-style-type: none"> 1. Connect hose connectors and lock them in place 2. Un-kink hose or replace split hose 3. Replace leaking air cushions or overlay pad 4. Un-kink manifold or replace split manifold 5. Send unit back for repair 6. Send control unit back to factory for repair 7. Send unit for repair
B. No Power	<ol style="list-style-type: none"> 1. Control Unit OFF 2. Power cord disconnected 3. No power in the power source 4. Power outage 5. Blown fuse 	<ol style="list-style-type: none"> 1. Check power source and turn on unit 2. Connect power cord to the power source 3. Check power source has power and turn it "ON" 4. Wait till the power source has power 5. Replace blown fuse with an equivalent fuse

PREVENTIVE MAINTENANCE

Filter: None

SPARE PARTS

Available spare parts are listed below:

Part #'s:

100251-S: Power Cord 14" hospital grade

100255-S: Fuse 1 A

400275-S: Operating Instruction Manual

- ◆ **Note:** To place an order or if you have any questions regarding the AP-10 system and its warranties, please call PRIMUS MEDICAL customer service at 877.638.2776. Email: sales@primusmedical.com.

WARRANTY

PRIMUS MEDICAL warrants the AP-10 series control unit and the mattress for a period of ONE (1) year from the original date of purchase.

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

PRIMUS MEDICAL'S sole obligation and liability under this warranty is limited to (at PRIMUS MEDICAL'S option) the repair or replacement by PRIMUS MEDICAL'S authorized personnel of any parts or assemblies, which upon test and examination by PRIMUS MEDICAL, prove to be defective. This equipment may be returned prepaid to PRIMUS MEDICAL after notification has been given and approval obtained for the return. Please call your PRIMUS MEDICAL sales representative or customer service at (877) 638 2776 to arrange for warranty services.

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

The control unit warranty does not cover normal maintenance such as cleaning, periodic electrical tests, performance tests, and updating of equipment or parts thereof. This warranty shall be void and not apply if the control unit, including any of its parts, is modified without PRIMUS MEDICAL'S written authorization, is attempted to be repaired by personnel not authorized by PRIMUS MEDICAL, is not maintained in accordance with the prescribed preventive maintenance schedule, is used with accessories or parts not authorized by PRIMUS MEDICAL, or is damaged due to misuse, mishandling, abuse, negligence, accident, fire, or inadequate packaging by owner for shipment of the control unit for service, upgrade, repair, retrofit, or product return.

All reasonable freight charges for valid factory approved warranty returns will be reimbursed. PRIMUS MEDICAL makes no guarantee of clinical results.

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