

Alternating Pressure Mattress System Product code: MA-M4P8-US

Improving patient care and enhancing the quality of people's lives



Address: 1650 Horizon Pkwy Suite 450 Buford,GA 30518 U.S.A Tel: 888-5MEDWAY (633929)

IMPORTANT SAFEGUARDS

READALLINSTRUCTIONS BEFORE USING

DANGER - To reduce the risk of electrocution:					
1.	Always unplug this product immediately after using.				
2.	Do not use while bathing.				
3.	Do not place or store this product where it can fall or be pulled into a tub or sink.				
4.	Do not place in or drop into water or other liquid.				
5.	Do not reach for a product that has fallen into water. Unplug immediately.				
6.	Do not perform any maintenance on the air pump when in use.				
7.	The device not intend use in oxygen rich environment and flammable anaesthetics.				

WAR	WARNING - To reduce the risk of burns, electrocution, fire, or injury to persons:					
1.	Evaluate patients for entrapment risk according to protocol and monitor patients appropriately.					
2.	The product may be used for patients with spinal injury, but suggested to consult with physician before					
	use. However, it should not be used for patients with unstable spinal fractures.					
3.	Close supervision is necessary when this product is used on or near children. Electrical burns or choking					
	accident may result from a child swallowing a small part detached from the device.					
4.	Use this product only for its intended use as described in this manual. Mattress not recommended by					
	manufacturer should not be used.					
5.	Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been					
	dropped or damaged, or dropped into water. Contact MedWay Group for assistance.					
6.	Keep the cord away from heated surfaces.					
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CAUTION -

1.	If there is a possibility of electro-magnetic interference with mobile phones, please increase the distance
	(3.3m) between devices or turn off the mobile phone.

NOTE, CAUTION AND WARNING STATEMENTS:

NOTE -	Indicates some operational suggestions.
CAUTION -	Indicates correct operating or maintenance procedures in order to prevent damage to or
	destruction of the equipment or other property
WARNING -	Calls attention to a potential danger that requires correct procedures or practices in order to
	prevent personal injury.

SYMBOLS

EC REP	Authorized representative in the European community.
	Manufacturer
\sim	Manufacture date
LOT	Manufacture batch
SN	Serial number of the device
π	Complies with standards protecting against electric shock for type BF equipment.
 Solution 	Consult operating instructions for use
IP21	Protected against solid foreign objects of 12.5 mm and greater; Protection against vertically falling water drops
	Class II
X	Temperature limitation/temperature range
	Humidity limitation
	Atmospheric pressure limitation
P	Dry clean, Any Solvent Except Trichloroethylene
X	Do Not Iron
\odot	Tumble Dry, Normal, Low Heat
\mathbf{X}	Do Not Tumble Dry

×	Do Not Bleach
\bigotimes	Do Not Dry Clean
95	Machine wash, regular / normal, max 95 degrees C (203 degrees F)
X	Attention – Observe proper Disposal of Electrical & Electronic Equipment (WEEE): This product should be handed over to an appropriate collection point for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service, the retail store where you purchased this product or MedWay Group.

1. Introduction

This manual should be used for initial set up of the system and for reference purposes.

1.1 General Information

The system is a high quality and affordable mattress system suitable for treatment and prevention of pressure ulcers. The system has been tested and successfully approved to the following standards:



IEC/EN 60601-1 IEC/EN 60601-1-2

EMC Warning Statement

This equipment has been tested and found to comply with the limits for medical devices to the EN60601-1-2. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.

• Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.

Contact MedWay Group for assistance.

1.2 Intended Use

This product is intended to help and reduce the incidence of pressure ulcers while optimizing patient comfort. It also provides following purposes:

- to help and reduce the incidence of pressure ulcers while optimizing patient comfort.
- for long term home care of patients suffering from pressure ulcers.
- for pain management as prescribed by a physician.

The product can only be operated by personnel who are qualified to perform general nursing procedures and have received adequate training in knowledge of prevention and treatment of pressure ulcer.

Contraindication

Patient conditions for which the application of pressure relieving therapy on an alternation system is contraindicated are as follows:

- Cervical or skeletal traction
- Unstable spinal cord injuries

NOTE-This equipment is not suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide.

2. Product Description

Unpack the box to check for any damage which may have occurred during shipment. If there are damages, please contact MedWay Group immediately.

2.1 Pump and Mattress System

- 1.CPR valve
- 2.Mattress system
- 3.Power cord
- 4.Pump unit
- 5. Remote control



2.2 Pump Unit

- Front
- 1.Fuses
- 2.Power switch
- 3. Power cord
- 4.Control panel

Rear

- 5.Filter
- 6.Quick connector
- 7. Mounting brackets





2.3 Front panel



1. Remote receiver window

Receiver for remote signal, Don't cover it.

2. Normal Pressure Indicator(Green)

When green LED lights up, the pressure inside of air mattress reaches the preset pressure setting.

3.Low Pressure Failure Indicator(Yellow)

When low pressure LED lights up, the pressure inside of air mattress is below normal. Please refer to troubleshooting. During initial inflation of the mattress, the Low Pressure LED will illuminate until the set pressure is reached. (approximately 45 minutes)

4. Pressure Adjustment key for alternating

Up arrow increases the weight setting, down arrow decreases the weight setting. Higher pressure output will support the heavier weight patient. The setting reference is given as LBS. Please consult your physician for a suitable setting.

Reference pressure setting:

Weight(LB)	60	90	120	150	180	210	240	260	300	340	380	420	450
Pressure(mmHg)	10	14	18	22	26	30	34	36	40	44	48	52	55

Note: The table does not contain all of the pressure setting.

NOTE- Check if the pressure is suitable for the patient by sliding one hand beneath the air cells at the level of the patient's buttocks. Always leave at least 1 inch space between patient and the static cell to prevent bottoming out.

5. Weight display window

Displays the weight setting. Up Arrow to Increase. Down Arrow to Decrease.

6.Pressure display window

Displays the pressure of the cells in the mattress.

7.Panel lock key

The user may lock or unlock the key panel by pressing the key for at least 3 seconds. With no interaction for 2 minutes, the panel will Auto Lock.

8.Sitting mode

The Sitting mode button will suspend the alternating function and set the pressure at 80 mmHg. This will last for 30 minutes before returning to the alternating function. The user may press the button again to return the alternating function.

9. Maximum Firm Function

The Maximum Firm button will suspend the alternating function, and set the pressure at 60 mmHg, this will last for 30 minutes before returning to the alternating function original setting. The user may return to the original alternating function settings ealier by pressing the button again.

10. Alarm Reset functions

For initial inflating fail Press alarm mute button to temporary suspend the alarm. If the situation does not resolve in 20 mins, the alarm will resume again.

For low pressure alarm Press alarm mute button to temporary suspend the alarm. If the situation does not resolve in 20 mins, the alarm will resume again.

Power Failure Alarm-During power failure, the Alarm LED light will flash and a buzzer will notify caregivers to take appropriate action. By pressing the alarm mute button both buzzer and LED will cease.

11.Alternating Cycle time function

Press the button to set the cycle time, the indicators will show the cycle time setting.

12.Static/Alternating function

The static/Alternating button will stop the alternating function and all of the indicators will light up. The pressure will automatically set to the same as the alternating function.



3. Installation

3.1 Pump & Mattress Installation

NOTE- Unpack the box to inspect for any damage which may have occurred during shipment. If there are any damages, please contact MedWay Group immediately.



1. Place the mattress on top of the bed frame. Please note the foot end. There are securing straps on the base of the mattress. Secure the mattress firmly by attaching the straps to the bed frame, ensure that any moving sections of the bed frame are still free to move.

WARNING- The included mattress pad must be placed on top of the mattress.

2. Hang the pump onto the bed rail (foot-end), and adjust the hangers to position the pump upright, or place the pump on a flat surface.

3. Connect the air hose connector from the air mattress to the pump unit. When a "click" sound is felt or heard, the connection is completed and secured.

When not in use, Press the quick-connect wings together to unplug it from the air outlet of the air pump.

MOTE- Check and ensure the air hoses are not kinked or tucked under mattress.

4. Plug the power cord into electrical outlet.

NOTE- 1. Make sure the pump unit is suitable for the local power voltage.

2. Removal of the power cord from the outlet is also used for disconnecting the device from electrical power.

5. Then turn the main power switch to ON position.

CAUTION- This pump may only be used with the mattress supplied by the manufacturer.

Do not use the pump for any other purpose.

Do not position the equipment so that it is difficult to operate the disconnecting device.

6. Make sure the power cord has no signs of damage. After installation, the extra length of the power cord, if any, should be neatly managed to avoid entanglement which could cause tripping or entrapment. Makesure power cord is clear of any moving bed mechanisms.

The EQUIPMENT should be firmly placed at position where users/doctors can access easily.

4. Operation

NOTE- Always read the operating instruction before use.

4.1 General operation



1. Switch on the main power switch 1 found on the side of the pump.

2. According to the weight and height of the patient, adjust ② the weight setting to the most comfortable level without bottoming out. The pressure in mattress will slowly increase to the weight settings displayed on panel, approximately 45 minutes. Once fully inflated the air mattress is ready to use.

3. Set the cycle time 3 if needed.

4. When the mattress is no longer needed, turn off the power switch in position ①. Remove the power cord from the outlet.

4.2 Emergency CPR Operations



patient from deflating mattress to another

proper surface.

5. Cleaning

It is important to follow the cleaning procedures to avoid cross contamination. Be sure to clean the surface in a dry and dust free environment. Wipe down the pump unit with a damp cloth pre-soaked with a mild detergent. Avoid contact with dust and proximity to dusty areas. Make sure that any cleaning agents you use will not harm or corrode the plastic casing on the pump unit. If your doctor or medical facilities have other special cleaning instructions, please follow the professional instruction.

CAUTION- Do not immerse or soak pump unit.

WARNING- To advoid electrical shock, DO NOT remove the housing of the pump. All disassembly or repair should be done by professional technicians.

CAUTION- The pump does not need oil lubrication; Do Not dissemble the system.

Cover Material: Stretch fabric

TPU coating



Wipe-down the mattress with a damp cloth pre-soaked with warm water containing a mild detergent, or chlorine bleach followed by an approved intermediate level disinfectant. The mattress top cover may be completely removed and washed as laundry. Please wash with water temperature indicated on the laundry label; however, itis recommended that the user still follow the established policy to determine the time/ temperature ratio required to achieve disinfection. The cover may also be cleaned using sodium hypochlorite diluted in water. After cleaning, please avoid dust and proximity to dusty areas and all parts should be air dried thoroughly before use.

CAUTION- Do not use phenolic based products for cleaning.

CAUTION- After cleaning, dry the mattress without exposure to direct sunlight.

6. Storage

1. To store the mattress, lay the mattress out flat and upside down.

2. Roll from the head end towards the foot end with CPR valve open.

3. Foot-end strap may then be stretched around the rolled mattress to prevent unrolling.

m MNOTE- Do not kink, crease or stack the mattresses and do not store the system in direct sunlight,

high temperature or moisture area.

7. Maintenance

7.1 General

1. Check main power cord and plug for any abrasions or excessive wear. If found DO NOT USE.

2. Check mattress cover for signs of wear or damage. Ensure mattress cover and tubes are attached together correctly.

3. Check airflow from the quick connector. The airflow from the connector should alternate every half-cycle time if it's in alternating mode.

4. Check the air hoses for kinks or breaks. For replacement, please contact MedWay Group.

5. We will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.

6. Maintenance frequency: before or after each use, or once a week during use.

7.2 Fuse Replacement



7.3 Air Filter Replacement



1. Open the air filter cap located at the back of pump.

2. Replace with a cleaned filter and put the cover lid back. The filter is reusable and can be washed gently with a mild detergent and water. Dry the filter before use.

3. Check and replace the air filter regularly if environment is dirty. Suggested to do it every three months.

8. Expected Service Life:

The products are intended to offer safe and reliable operation when use or installed according to the instructions provided by MedWay Group. MedWay Group recommends that the system be inspected and serviced by authorized technicians if there are any signs of wear or concerns with device function and indication on products. Otherwise, service and inspection of the devices generally should not be required.

The pump expected service life: 3 years

The mattress expected service life: 2 years

9. Trouble Shooting

Q1 Power is not ON

- Check if the plug is connected to wall power and that the wall power is on.
- Check for a blown fuse.

Q2 Low Pressure Alarm or initial inflating failed light is on

- Check if the Quick Connector is tightly secured.
- Check to make sure CPR valve is closed.
- Check if all tubing connections along mattress are secured.
- Check if the air hoses are kinked or broken.

Q3 Power Failure Alarm is on

- Check if the power is on.
- Check if the power cord is connected properly.

Q4 Patient is bottoming out

Pressure setting might be inadequate for the patient, adjust comfort range 1 to 2 levels higher and wait for a few
minutes for best comfort.

Q5 Mattress is loose

• Check if all the snap buttons or straps of mattress are all securely fastened to bed frame.

Q6 No air produced from some air outlets of the air tube connector

• This is normal since there is alternating mode. Air outlets take turns to produce air during their cycle time.

If the above information does not solve your problems, please contact MedWay Group directly.

NOTE-Error code display on the weight display window:



Initial inflating failed. Check CPR Valve is Closed.

E03

Low Pressure Alarm. Check CPR Valve is Closed.

10. Disposal of waste

Disposal of waste products, residues, etc., and of ME EQUIPMENT and ACCESSORIES at the end of their EXPECTED SERVICE LIFE shall according the local regulation.

11. Technical Specification:

Item			Specification				
Power	Supply (Note: S	See rating label on the	AC 220-240V 50 Hz, 0.16A (for 230V system)				
product	t)	Ũ					
Fuse R	ating		T1AH, 250V 2pcs				
Cycle ti	me		6,9,12,25mins, adjustable				
Dimens	sion (L x W x H)		35.5 x 12.5 x21 cm /14" x 4.9" x 8.3"				
Weight			2.4 Kg / 5.3 lb				
Hardwa	are version		V 3.0				
Softwar	re version		V 1.6				
		Atmospheric Pressure	70KPa to 106KPa				
			Operation: 10°C to 40°C (50°F to 104°F)				
		Temperature	Storage: -20°C to 55°C (-4°F to 131°F)				
Environ	iment		Shipping: -20°C to 55°C (-4°F to 131°F)				
			Operation: 10% to 90% non-condensing				
		Humidity	Storage: 10% to 90% non-condensing				
			Shipping: 10 % to 90% non-condensing				
			Class II, Type BF, IP21				
Cleasifi	ti - u		Applied Part: Air Mattress				
Classili	cation		Not suitable for use in the presence of a flammat				
			anesthetic mixture (No AP or APG protection)				
Service	life		3 Years				
Mattres	S		Specification				
Model			T04 Cell-on-cell Mattress				
Dimens	sion (L x W x H)		200x86x20cm/				
			78.7"x34"x8"				
Weight			8.6Kg / 19lb				
Max. S	upport Weight		200 Kg /440 lb				
Service	life		2 Years				
Remov	able parts						
1	Power cable						
2	Filter and filter cov	/er					
3	Fuse holder and F	use					
4	Mattress						

1. Consult the distributor or EU representative for further technical documents.

2. The specification is also suitable for other areas operating with same power supply.

3. Mattress dimension and weight is measured without foam cushion.

4. The manufacturer reserves the right to modify the specification without notice.

Guidance and manufacturer's declaration-electromagnetic emissions

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that they are used in such an environment.

device should ussure thatthey are used in such an environment.						
Emissions test	Compliance	Electromagnetic environment - guidance				
RF emissions CISPR 11	Group 1	The models device use RF energy only for their internal function. Therefore, their RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.				
RF emissions CISPR11	Class B	The model P06B are suitable for used in domestic establishment and in establishment directly connected to a low voltage power supply network which supplies buildings				
Harmonic emissions IEC 61000-3-2	Class A	used for domestic purposes.				
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies					

Warning:

1. The device should not be used adjacentto or stacked with other equipment . If adjacent or stacked use is necessary, the device should be observed to verify normal operation in the configuration in which it will be used.

2. Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could resultin increased electromagnetic emissions or decrea sed electromagnetic immunity of this equipment and resultin improper operation.

3. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm(12inches) to any part of the Pump, including cables specified by the manufacturer.Otherwise,degradation of the performance of this equipment could result.

Guidance and Declaration-electromagnetic immunity

The models device intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that they are used in such an environment.

the device should assure that they are used in such an environment.								
Immunity test	IEC 60601	Compliance	Electromagnetic environment -guidance					
	test level	level						
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.					
Electrical fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1 kV for Input/output lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.					
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11.	<5 % UT (>95% dip in UT.) for 0.5 cycle <5 % UT (>95% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 25/30 cycles <5% UT (>95 % dip in UT) for 5/6 sec	<5 % UT (>95% dip in UT.) for 0.5 cycle <5 % UT (>95% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 25/30 cycles <5% UT (>95 % dip in UT) for 5/6 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the model P06B require continued operation during power mains interruptions, it is recommended that the model P06B powered from an uninterruptible power supply or a battery.					
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.					
NOTE UT is the a.c. r	nains voltage prior to	application of the test	level.					
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio bands	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio bands	Portable and mobile RF communications equipment should be used no closer to any part of the models PO6B including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = [3,5/V1] \times P^{1/2}$					
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz	10 V/m 80 MHz to 2.7 GHz						
	385MHz- 5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601- 1-2:2014)	385MHz- 5785MHz Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014)	where P is the maximum output power rating of the transmitter In watts (W) according to the transmitter manufacturer and d Is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b Interference may occur In the vicinity of equipment marked with the following symbol:					

NOTE 1 At 80 MHz and 800 MHz. the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. Ifthe measured field strength in the location in which the models PO6B is used exceeds the applicable RF compliance level above, the model PO6B should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model PO6B. b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the model P06B

The model P06B is intended for use in electromagnetic environmentin which radiated RF disturbances is controlled. The customer or the user of the model P06B can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model P06B is recommended below, according to the maximum output power of the communications equipment.

Rated maximum output Power of transmitter	Separation distance according to frequency oftransmitter m					
w	150kHz to	80MHz to	800MHz to 2,5GHz			
	80MHz $d = 1.2 \times P^{1/2}$	800MHz $d = 1.2 \times P^{1/2}$	$d = 2.3 \times P^{1/2}$			
0.01	0.12	0.12	0.23			
0.1	0.38	0.38	0.73			
1	1.2	1.2	2.3			
10	3.8	3.8	7.3			
100	12	12	23			

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) accordable to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz. the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.



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