



User Manual | คู่มือการใช้งาน

Alternating Pressure mattress

ที่นอนลม

Model: C-AM202



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INTRODUCTION

Congratulations on the purchase of your **Alternating Pressure mattress**. The durable, high-quality material used in the manufacturing of these products will ensure that you experience long-lasting and uninterrupted performance.

Intended Use



















Alternating pressure mattress is intended to prevent pressure sores and is appropriate for long-term of individuals with bedsores at home or pain treatment following the doctor's instruction.

This device can be used by personnel trained in general nursing, and pressure ulcer prevention and treatment.

Contraindication

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

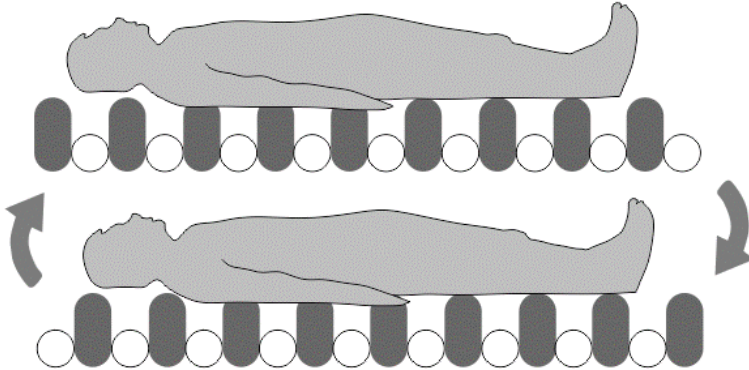
- Cervical or skeletal traction
- Unstable spinal cord injuries

Symbol definition	
	CE Mark
	European representative information
	Product production batch
	Product serial number
	Manufacturer information
	II type equipment symbol
	Mandatory reading of instructions
	BF device symbol
IP21	Protected against solid foreign objects of 12.5mm and greater; protection against vertically falling water drops.
	When the end user intends to discard this product, the product must be sent to the appropriate facility for recycling.
	Environment temperature for operation or storage
	Environment humidity for operation or storage
	Atmospheric pressure for operation or storage
	Maximum weight of the mattress load
	Do not wash the mattress
	Do not bleach the mattress
	Do not tumble dry
	Do not iron
	Do not dry clean

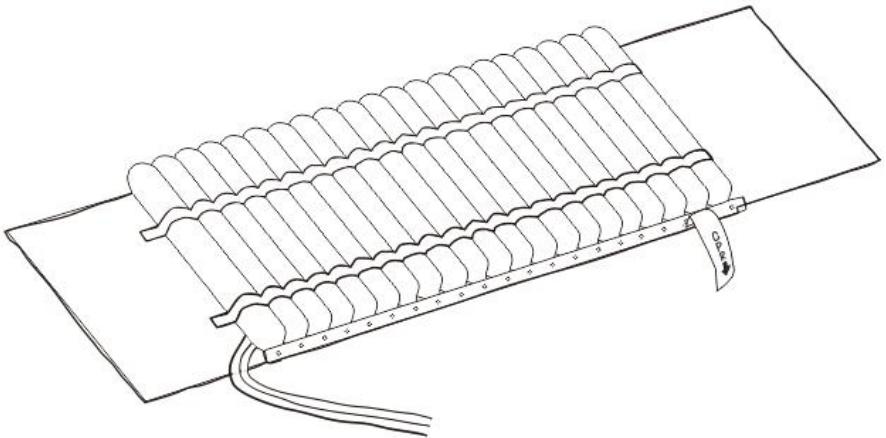
Products Feature

1. Two-channel alternating mode

The tube mattress alternates about every 6 minutes; support the body while inflating, relax the body while deflation to reduce stress.



2. Tube structure



Safety Precautions

In order to use this product safely, please read this book carefully and understand it, please be sure to follow the instructions in this manual. In order to avoid a disaster when using this product, you must know in advance the factors that may be dangerous. However, it is difficult to predict all potential dangers. Therefore, warnings about security are defined and described in this manual.

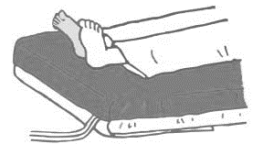
⚠ Warning If you do not follow the instructions in this symbol, you are warned that there is a risk of property damage, injury or death. Because it is especially important, it is described below as "safety precautions and warnings"

Safety warning

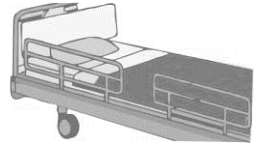
⚠ Warning 1 This product features a layer of soft air floating beneath the patient's body. Therefore, do not use when patients need to undergo cardiac resuscitation. When using emergency measures such as ICU, please use it under the guidance of a doctor.

⚠ Warning 2 Use this product under your doctor or specialist when using this product. In addition, if the body feels abnormal during use, or the symptoms are worse, or there is a risk of accident, stop using it immediately and consult an expert.

⚠ Warning 3 When installing the mattress, place the airway on the side of the foot; if the airway is on the side of the head, the airway may wrap around the neck and cause a serious accident.



Warning 4 When using the mattress, be sure to secure the guardrail to the bed. Failure to use the guardrail may result in a fall from the bed, which may result in an accident.



Warning 5 Please do not jump on the mattress, it may cause injury or damage. Do not stand on an air mattress or knee on a mattress. There is a risk of damaging the airbag when a high pressure is applied.


Warning 6 When you move to a sitting position or get out of bed, be sure to ask someone else for assistance, otherwise there is a danger of falling.


Warning 7 Smoking is not allowed on the mattress and may cause a fire.





Warning 8 Please do not bundle the air outlet or press it under the mattress. When the blower tube is bent or compressed, air may not enter the air mattress and may not achieve the desired results.


Warning 9 Please do not use two or more people together. This may result in failure to perform the performance of the product and cause damage to the mattress.


 **Warning 10** Do not use the air pump in a damp place. Do not use water or urine to pump the pump, which may result in electric shock or malfunction. Avoid direct sunlight. In hot and humid places, keep it away from the wall or above 55cm to avoid moisture retention.

 **Warning 11** Please do not remove the screw of the air pump to open the casing and repair it yourself; it may cause electric shock or malfunction. In addition, the modification of the air pump without our consent may pose a serious safety hazard. Never let customers modify the air pump.

 **Warning 12** Be sure to plug the air pump's power plug into a European power outlet (230V 50Hz). If it is used above this voltage, it may cause a human accident or malfunction. Also, do not insert or unplug the power plug with wet hands as this may result in electric shock or a single malfunction.

 **Warning 13** If you do not use the air pump for a long time or need to clean the air pump, be sure to unplug the power cord from the outlet. It may cause accidents, electric shocks, and malfunctions.

 **Warning 14** Please do not pull on the power cord of the air pump, do not damage the power cord, and do not clip the power cord to the door. When removing the plug from the socket, be sure to hold the power plug and pull it out to avoid electrical accidents and fire.

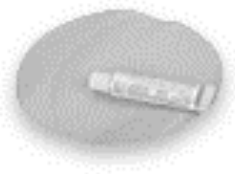
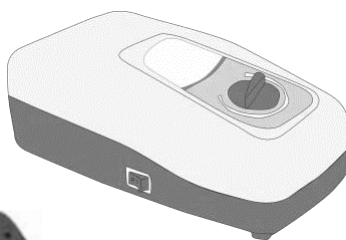
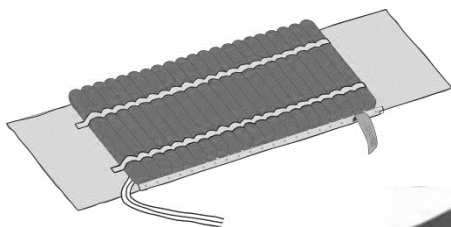
 **Warning 15** Please put a cotton sheet on the air mattress so that the skin does not directly contact the air mattress to prevent the body fluid from contaminating the air mattress, which is not conducive to cleaning.

Confirm before fixing

Before fixing, please confirm whether the accessories are complete and whether you understand the contents and precautions of the manual.

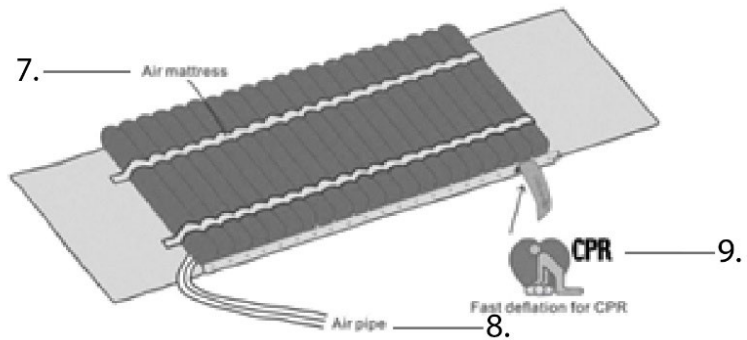
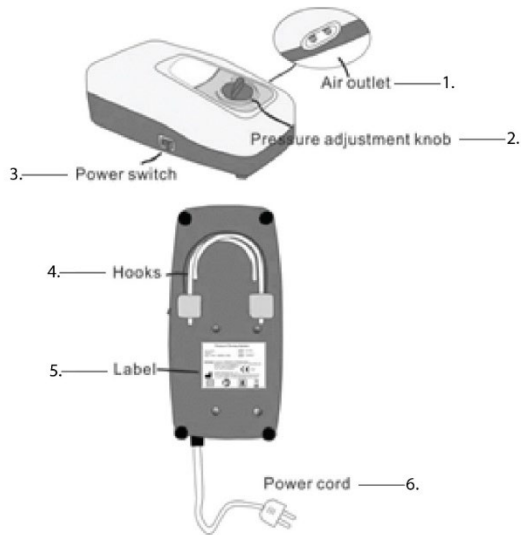
Packing list confirmation

- ① Air Mattressx1
- ② Air Pump for C-AM201/202.....x1
- ③ Repair kit.....x1
- ④ Cell for C-AM202.....x1
- ⑤ Waterproof cover.....x1
- ⑥ User Manual.....x1



Parts Name

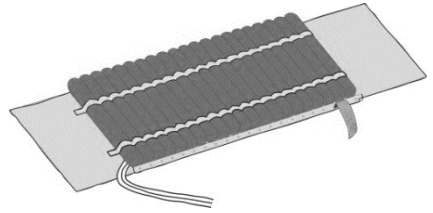
1. Air Outlet
2. Pressure Adjustment Knob
3. Power Switch
4. Hooks
5. Label
6. Power Cord
7. Air Mattress
8. Air Pipe
9. CPR



Use instructions

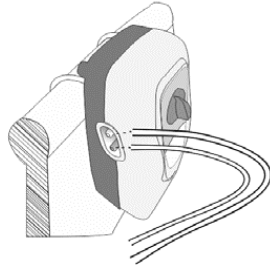
Step1:

- Place the air mattress on the mattress
- Place the air tube on the side of the foot and the other side on the head
- Spread a coverlet on an air mattress



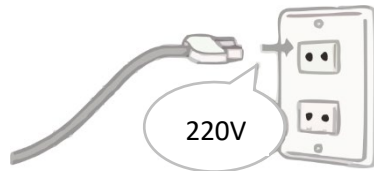
Step2:

- Hang the hook of the air pump on the bedside
- Connecting air pipe



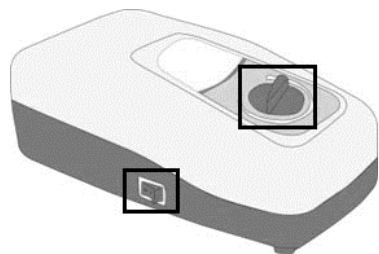
Step3:

- Plug the power plug into the outlet



Step4:

- Turn On the power
- Adjust the Pressure



Warning

- Since the mattress is alternated every 6 minutes, it takes about 12 minutes for the pressure to reach the set value when a new pressure is set.
- And usually, the pressure value of the mattress is at most about half of the set value of the air pump.
- Usually, the higher the severity of pressure sores, the lower the pressure should be set, it is best to follow the doctor's advice, or have a professional person to operate. Direct use at maximum pressure is strictly prohibited.

Maintenance

Warning : Do not open the pump for maintenance when the product is using.

Air pump output pressure check

In the case of air pumps and air mattresses, please check the pressure once a week. In addition, if you change the location, or if you suspend operation due to power outages, etc., please do it every time, even within a week.

Mattress cleaning

- Usually use a dry rag to clean the mattress
- If necessary, wash the rag with a neutral detergent, wring the rag and clean the mattress.
- Let it dry naturally

Warning:

- Dry cleaning is forbidden, otherwise it will hurt the mattress
- Please do not use a dryer to avoid deformation of the mattress.
- Do not use an iron to avoid damage to the mattress

Air pump cleaning

- Turn off the power switch and unplug the power cord
- Usually use a dry rag to clean the air pump

Warning: If it is not used for a long time, be sure to unplug the power cord to avoid fire.

Storage and disposal methods

If you are no longer using this product, please follow the steps below to save.

1. Turn off the power switch and unplug the power cord.
2. Unplug the air tube
3. Cleaning dirty air pumps and mattresses
4. Fold the mattress and put it in the plastic bag
5. Turn off the power switch and unplug the power cord.
6. Put the air pump and mattress in the box, together with this manual

Note:

- Please put it in a stable place, do not drop from a height.
- Please do not put heavy objects on the box.
- Please keep it in a place with low humidity.

Environmental Specifications

For transport and storage:

Ambient temperature: -20°C- +55°C

Relative humidity: 10% - 90%RH, but not requiring a water vapour partial

pressure greater than 50hPa

Atmospheric pressure: 80KPa to 106KPa

For operation:

Ambient temperature: +5°C - +35°C

Relative humidity: 15% - 85%

Atmospheric pressure: 86KPa to 106KPa

Warning:

- When the equipment storage temperature is minimum or maximum, you should warm or cool the temperature for 1 hour to operate temperature for use.

Troubleshooting

Trouble	Possible Reason
Do not start, do not light the power light	The power plug is not plugged into the power outlet, the power supply does not work.
Air mattress is too soft	Valve does not work Air duct off Air duct bend Adjustment knob error Damaged mattress
Air pump noise is abnormally large	Put something on the air pump The air pump is in contact with other things Put the air pump on something that is easy to vibrate
Power outage	The power plug Internal fault

Warranty

Service life and Shelf life

BELMEXTHAI. Co.,Ltd warrants this product to be materially free from defects and workmanship.

BELMEXTHAI. Co.,Ltd responsibility with regard to this limited warranty shall be limited solely to repair or replacement at its option of any product which fails during normal consumer use.

This warranty does not extend to damage or failure which results from misuse, neglect, accident, alteration, abuse, improper installation or maintenance. At any time during the warranty period, the product fails due to defects in material or workmanship, return the defective product with proof of purchase.

Warning:

- Please don't replace the power cord by yourself and it must be replaced by professional service personnel.
- The only safe way to turn off the power is to unplug the power cord.

Specification list

Air mattress details description	
Mode	C-AM202
Total cell	18 cells replaceable
Size (Inflate)	W 85 x L 200 x H 10 (cm)
Flap size	~ L40 cm
Weight	5.31Kg
Cell Material	Nylon PVC coated cloth
Load	180 kg
System	CPR quick deflating when in emergency
Coverlet	Waterproof

Air Pump details description	
Mode	Pump for C-AM201/202
Size	L 23 x W 12 x H 9 (cm)
Weight	0.9 Kg.
Material	ABS plastic
Noise level	35 dB
Air system	Cycle time 12 minutes
Air output	6 liter/minute
Pressure range	70-130 mmHg
Power	220Vac 50Hz 12VA Power cord length : 2 meters Fuse : Time-lag type 500 mA 250V Size 3.6 x 10 mm.

Extra cell details description

Mode	Cell for C-AM202
Size (Inflate)	W 10 x L 85 x H 10 (cm)
Weight	0.1 Kg.
Cell Material	Nylon PVC coated cloth

EMC Declaration

EMC information

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.		
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 models C-AM201, C-AM202 are suitable for used in domestic establishment and in establishment directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	
Warning:		
<ol style="list-style-type: none"> 1. The device should not be used adjacent to 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 result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation. 		

3. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) 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.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance
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 models C-AM201, C-AM202 require continued operation during power mains interruptions, it is recommended that the models C-AM201, C-AM202 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. mains 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 C-AM201, C-AM202 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = [3,5/\sqrt{V1}] \times P^{1/2}$
Radiated RF IEC 61000-4-3	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)	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)	$d = 1.2 \times P^{1/2}$ 80 MHz to 800 MHz $d = 2.3 \times P^{1/2}$ 800 MHz to 2.7 GHz where P is the maximum output $I_{((\bullet))}^r$ rating of the transmitter in (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 strength 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. If the measured field strength in the location in which the models C-AM201, C-AM202 are used exceeds the applicable RF compliance level above, the models C-AM201, C-AM202 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the models C-AM201, C-AM202 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 models C-AM201, C-AM202

The models C-AM201, C-AM202 are intended for use in electromagnetic environment in which radiated RF disturbance is controlled. The customer or the user of the models C-AM201, C-AM202 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the models C-AM201, C-AM202 are recommended below, according to the maximum output power of the communications equipment.

Rated maximum output Power of transmitter W	Separation distance according to frequency of transmitter m		
	150kHz to 80MHz $d=1.2 \times P^{1/2}$	80MHz to 800MHz $d=1.2 \times P^{1/2}$	800MHz to 2,5GH $d=2.3 \times P^{1/2}$
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.



Belmexthai Co., Ltd.

Head office and warehouse: 15/117 Moo 3, Soi Kao Kilo 23, Kao Kilo Road, Surasak Subdistrict, Sriracha District, Chonburi Province 20110

Bangkok Office: Hospro Shop 26 Soi Sukhumvit 62, Phra Khanong Tai Subdistrict, Phra Khanong District, Bangkok 10260
Tel. 065-503-6565

Customer Service Center: Tel. 098-2805777

บริษัท เบลเมกซ์ไทย จำกัด

สำนักงานใหญ่และคลังสินค้า: 15/117 หมู่ 3 ซ.เก้ากิโล 23 ถ.เก้ากิโล ต.สุรศักดิ์ อ.ศรีราชา จ.ชลบุรี 20110

สำนักงานกรุงเทพฯ: ร้านฮอสโปร (Hospro) : 26 ซ.สุขุมวิท 62 แขวงพระโขนงใต้ เขตพระโขนง กรุงเทพฯ 10260 โทร. 065-503-6565

ศูนย์บริการลูกค้าสัมพันธ์ โทร. 098-2805777