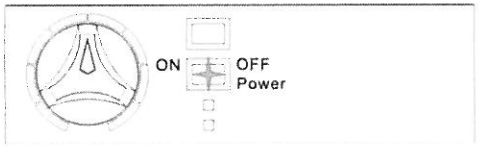
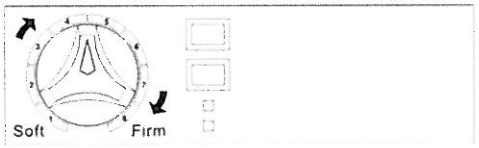
4. OPERATION

⚠ **NOTE:** Always read the operating instruction before use.

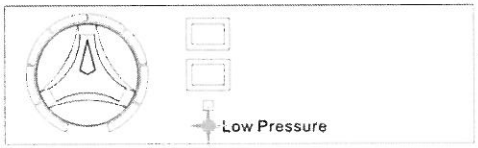
4.1 General operation



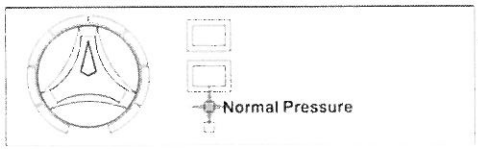
1. Switch on the main power switch on the display panel.



2. The pump unit is beginning to deliver air into mattress. Turn the comfort knob clock-wise to increase firmness. (i.e. pressure)



3. The low pressure indicator (yellow LED) will light up when the mattress is not yet fully inflated.



4. When the appropriate pressure is reached, the low pressure indicator (yellow LED) will go off and normal pressure indicator (green LED) will light up automatically.

⚠ **NOTE:** Each time when mattress is firstly inflated, it is recommended that the pressure knob be set to "Firm" for the quickest inflation. User can then adjust air mattress to the desired softness afterward.

4.2 Pressure Set Up

Users can adjust pressure of air mattress to a desired softness by adjusting the comfort knob. Please consult your physician for a suitable setting. The comfort number 1 ~ 8 would represent as different weight support; however, it mainly depends on the type of mattress.

A simple guilldline

Mattress Type	4" mattress
Max. Support	140Kg/300lb

When a Normal Pressure indicator lights up (only available on PM100B & C), pressure is reached to the desired softness. Patient can lie on the mattress.

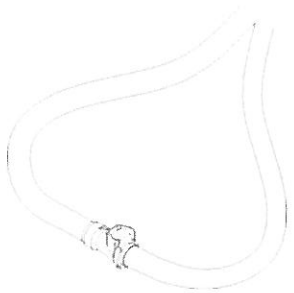
⚠ **NOTE:** Check to see if the suitable pressure is selected by sliding one hand between the deflated air cells and the patient to feel patient's buttock. Users should be able to feel the minimum contact.

4.4 Low Pressure Function

When an abnormal low pressure is occurred, the Low Pressure indicator (yellow LED) will light up. Check that connections are correctly made and that they are correctly installed as per installation instructions.

⚠ **NOTE:** If the pressure level is consistently low, check for any leakage (tubes or connecting hoses). If necessary, replace any damaged tubes or hoses. Or contact local qualified dealer for repair.

4.5 Transport



For transport purpose, interconnect Male to Female part of the air hose connector. When a "click" is felt or heard, the connection is completed and secured; then air from mattress is sealed off.

2. Low Pressure Indicator
When low pressure LED lights up, the pressure inside of air mattress is below normal. Please refer to troubleshooting. (only available on PM100B & PM100C)

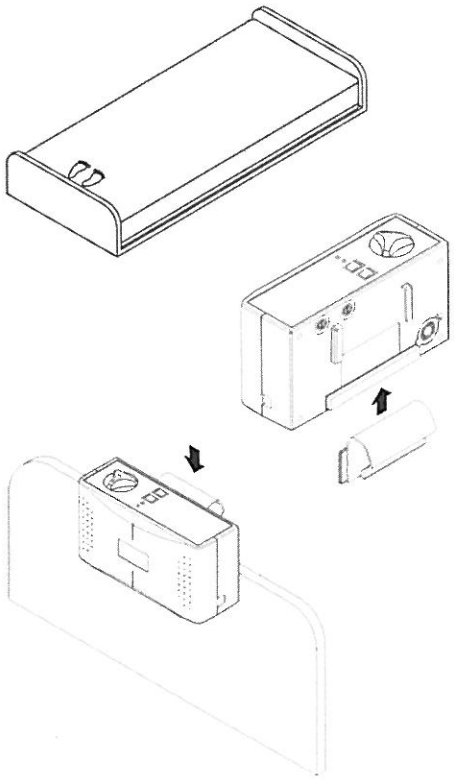
3. Normal Pressure Indicator
When green LED lights up, the pressure inside of air mattress reaches the preset pressure setting. (only available on PM100B & PM100C)

4. Main Power Switch
To turn on/off the pump unit with illuminated green light.

5. Static Feature
Switch between Static and Alternating mode of mattress. (only available on PM100C)

3. INSTALLATION

3.1 Pump & Mattress Installation



1. Place the mattress or pad on top of the bed frame. Fasten the Nylon Straps to secure the mattress to bed frame if available.

⚠ **NOTE:** Please cover the mattress with a cotton sheet to avoid direct skin contact and for patient's comfort.

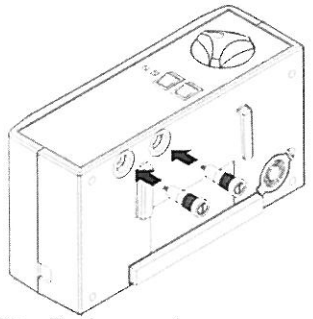
2. Clip the plastic hanger on the back of pump in a bottom-to-top direction and hang the pump onto bed rail (foot-end) or place the pump on a flat surface.

7. MAINTENANCE

7.1 General

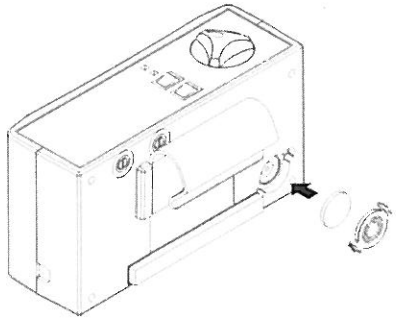
1. Check main power cord and plug if there is abrasions or excessive wear.
2. Check mattress cover for signs of wear or damage. Ensure mattress cover and tubes are stubbed together correctly.
3. Check airflow from the quick connector. The airflow should alternate between each connector every half-cycle time if it's in alternating mode.
4. Check the air hoses if there is kink or breaks. For replacement, please contact our local dealers.

7.2 Fuse Replacement



1. Disconnect the plug form mains power when a fuse is to be replaced.
2. Remove the cover of the fuse holder by means of a screwdriver. (If necessary, un-clip the hangerform the pump unit)
3. Insert a new fuse of the correct rating in, and replace the cover of the fuse holder back. The fuse should be T1AL/250V type.

7.3 Air Filter Replacement



1. Open the air filter plate located at the back of pump.
2. Suggest to check and replace air filter regularly if environment is dirty.

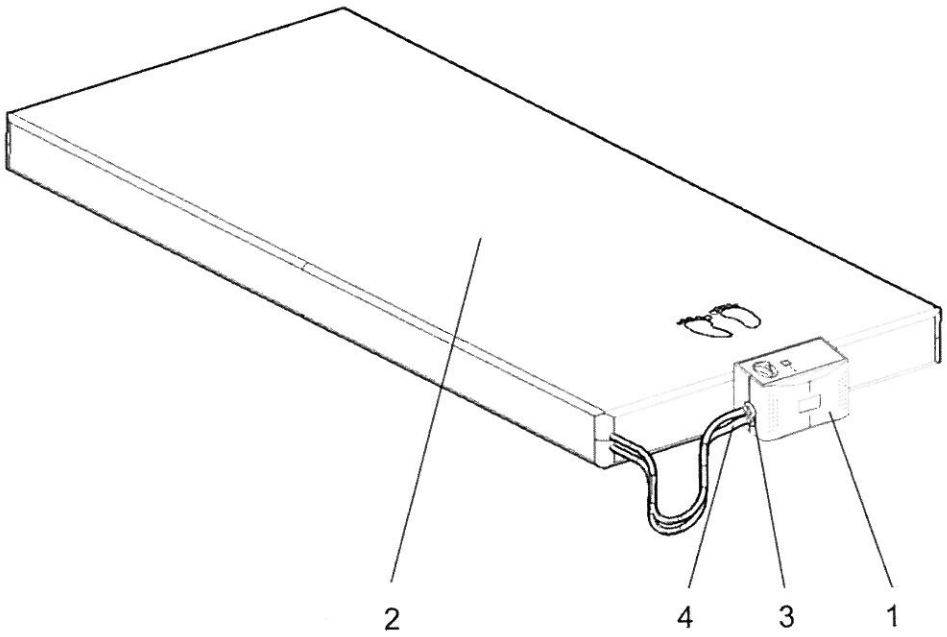
8. EXPECTED SERVICE LIFE:

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

2. PRODUCT DESCRIPTION

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

2.1 Pump and Mattress System



1.Pump unit
2.Mattress System or Bubble Pad System
3.Quick Connector
4.Transport

10. TECHNICAL DESCRIPTION

Item		Specification
Power Supply (Note: Refer to the rating label on the product)		AC 230V, 50Hz, 0.05A
Fuse Rating		T1AL 250V
Cycle time	PM100A Model: 9P-046500	6 min
	PM100B Model: 9P-046520	9.6 min
	PM100C Model: 9P-046540	9.6 min
Dimension(LxWxH)		25 x 13.5 x 9.5 (cm) or 9.8" x 5.3" x 3.7"
Weight		1.8 Kg (4.0 lb)
Environment	Temperature	Operation:10 °C to 40 °C (50 °F to 104 °F) Storage: -15 °C to 50 °C (5 °F to 122 °F) Shipping: -15 °C to 70 °C (5 °F to 158 °F)
	Humidity	Operation:10% to 90% non-condensing Storage:10% to 90% non-condensing Shipping:10% to 90% non-condensing
	Atmospheric pressure	Operation: 700-1013.25 hPa
Classification		Class II, Type BF, IP2X Applied Part: Air Mattress Not suitable for use in the presence of a flammable anesthetic mixture (No AP or APG protection)

Mattress	Speification		
Model	Bubbld Pad	4" Mattress	5" Mattress
Dimension(Lx WxH)	198 x 86 x 6.4 (cm) or 80" x 33.9" x 2.5"	180.0 x 83.0 x 10.2 (cm) or 70.9" x 32.7" x 4.0"	200 x 80 x 12.7 (cm) or 78.7" x 31.5" x 5"
Weight	2.4 kg (5.3 lb)	4.3 kg or 9.5 lb	5 kg (11 lb)
Pressure Range	50 – 105 mm Hg	40 - 90 mm Hg	

⚠NOTE-

1. The specification is also suitable for other areas operating with same power supply.
2. Consult the distributor or EU representative for other technical documents.

Symbols

 Manufacturer

EC REP Authorized representative in the European community

REF Catalogue Number

 **CAUTION** should be used to highlight the fact that there are specific warnings or precautions associated with the device.

 Temeprature Limitation

 "BF" symbol, indicate this product is according to the degree of protecting against electric shock for type BF equipment.

 Class II

IP2X Protected against solid foreign objects of 12,5 mm and greater; No protection against vertically falling water drops, Keep dry !.

 Refer to instruction manual/ booklet
NOTE on ME EQUIPMENT "Follow instructions for use

 Disposal of Electrical & Electronic Equipment (WEEE):
This product should be handed over to an applicable 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 or the retail store where you purchased this product.

SN SERIAL NUMBER

 DATE OF MANUFACTURE

 "ON" (power)

 "OFF" (power)

Guidance and Manufacturer's Declaration - Electromagnetic Immunity:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Immunity Test	IEC60601 test level	Compliance	Electromagnetic Environment-Guidance
Conducted RF IEC 61000-4-6	3Vrms150 kHz to 80 MHz outside ISM bands[a]	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of this device, including cables, than there commended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2\sqrt{P}$ 150kHz to 80MHz $d = 1.2\sqrt{P}$ 150kHz to 80MHz $d = 2.3\sqrt{P}$ 80 MHz to 2.5G MHz 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).[b]
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[c], should be less than the compliance level in each frequency range[d]. 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.

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