

Alternating Pressure Relief System



User's Manual



Model No.:9P-047 Series

Please read the manual before use.

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:

EN 60601-1
 EN 60601-1-2
 EN 55011 Class B
 EN 61000-3-2 Class A
 EN 61000-3-3
 IEC 61000-4-2
 IEC 61000-4-3
 IEC 61000-4-4
 IEC 61000-4-5
 IEC 61000-4-6
 IEC 61000-4-8
 IEC 61000-4-11



FOR US AND CANADA ONLY

E228589
 53DG
 CLASSIFIED
 UL US
 MEDICAL EQUIPMENT- AIR PUMP
 WITH RESPECT TO ELECTRIC SHOCK,
 FIRE AND MECHANICAL HAZARDS ONLY
 IN ACCORDANCE WITH UL60601-1
 AND CAN/CSA C22.2 NO.601.1

Le produit à été testé avec des équipements médicaux et respecte les normes UL 60601-1 & CAN/CSA C22.2 No.601.1. prévenant les choc électrique, le feu et les risques de blessures physiques.

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:

- Individual home care setting and long term care of whom suffering from pressure ulcer
- Pain management as prescribed by a physician

NOTE: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

NOTE: L'équipement ne peut être utilisé s'il y a risque de mélange d'un anesthésique inflammable avec l'air ou l'oxygène ou oxyde nitreux.

IMPORTANT SAFEGUARDS READ ALL INSTRUCTIONS 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 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.

WARNING - To reduce the risk of burns, electrocution, fire, or injury to persons:

1. This product should never be left unattended when plugged in.
2. Close supervision is necessary when this product is used by, on, or near children or invalids.
3. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
4. 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. Return the product to a service center for examination and repair.
5. Keep the cord away from heated surfaces.
6. Never block the air openings of this product or place it on a soft surface, such as a bed or couch, where their openings may be blocked. Keep the air opening free of lint, hair, and other similar particles.
7. Never drop or insert any object into any opening or hose.

NOTE, CAUTION AND WARNING STATEMENTS:

NOTE: Indicate some tips.

CAUTION - Indicate 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



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



Attention, should read the instructions



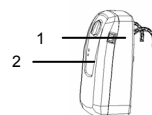
Class II

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.

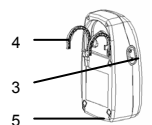
2.1 Pump Unit

Front



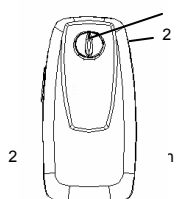
1. Power Switch
2. Front Panel

Rear



3. Air Hose Port
4. Hanger
5. Power Cord

2.2 Front panel



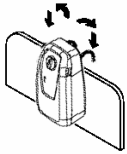
1. Comfort Adjustment Knob
 Comfort adjustment knob controls the air pressure output. When turning clockwise, the output pressure will be increased. On the other hand, when turning counter-clockwise, the output air pressure will be decreased. (only available on # MSCAOPUMPADJ)
2. Main Power Switch
 To turn on/off the pump unit with illuminated green

3. Installation

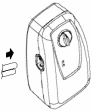
3.1 Pump & Mattress Installation

- 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.



- Hang the pump onto bed rail (foot-end) or place the pump on a flat surface.



- Connect air hose from air mattress to the pump unit.

NOTE: Check and ensure the air hoses are not kinked or tucked under mattress.

- Plug the power cord into electrical outlet.

NOTE: 1. Make sure the pump unit is suitable for the local power voltage.
2. The plug is also served as the disconnect device.

NOTE: 1. S'assurer que la pompe est compatible au voltage local ou disponible.
2. L'appareil est également muni d'une fiche de connexion à l'électricité.

CAUTION: The pump can only be applied to the mattress recommended by the manufacturer. Do not use it for any other purpose. (applied part: air mattress)

AVERTISSEMENT: La pompe ne peut être utilisée qu'avec le matelas designé ou recommandé par le fabricant. Ne peut servir d'usage autre que celui auquel elle a été conçu.

- Then turn the main power switch to ON position which located on the right side of the pump.

Several installation tips are listed below:

After installation, the extra length of the power cord, if any, should be neatly arranged to avoid any tripping accidents. The EQUIPMENT should be firmly placed at position where users/doctors can easily access.

5. Cleaning

It is important to follow the cleaning procedures before using the equipment on human bodies; otherwise, patients and/or doctors may have the possibility of getting infection.

Wipe the pump unit with a damp cloth and a mild detergent, and keep it away from dust. If other detergent is used, choose one that will have no chemical effects on the surface of the plastic case of the pump unit.

CAUTION: Do not immerse or soak pump unit.

Wipe down the mattress with warm water containing a mild detergent. The cover may also be cleaned by using sodium hypochlorite diluted in water. All parts should be air dried thoroughly before use.

CAUTION: Do not use phenolic based product for cleaning.

CAUTION: Dry the mattress on SUNLESS capitalized area after cleaning.

6. Storage

- To store the mattress, lay the mattress out flat and upside down.
- Roll from the head end towards the foot end with CPR valve open.
- Foot-end strap can then be stretched around the rolled mattress to prevent unrolling.

NOTE: Do not fold, crease or stack the mattresses.
Avoid direct sunshine.

7. Maintenance

7.1 General

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

4. Operation

NOTE: Always read the operating instruction before use.

4.1 General operation

- Switch on the main power switch on right side of the pump.
- The pump unit is beginning to deliver air into mattress. Turn the comfort knob clock-wise to increase firmness. (i.e. pressure)
- The low pressure indicator (yellow LED) will light up when the mattress is not yet fully inflated. (only available on some models)
- 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. (Only available on some models)

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 CPR

When there is an emergency to perform CPR on the patient, quickly pull the CPR valves to release air from mattress. The CPR valves are located at the head-end, right-hand-side of the mattress. (Only available for air cell types mattress) The quick connector on the pump unit can be disconnected for even faster deflation.

4.3 Low Pressure Function (for some models)

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.

8. Technical Description

The system is designed and manufactured to meet the most demanding environment. Its specifications are list below:

Specifications:

Item		Specification	
Model		9P-047000	9P-047020
Power Supply		AC120V, 60Hz, 0.1A (for 120V system) AC230V, 50Hz, 0.05A (for 230V system)	
Fuse Rating		T1A, 250V	
Cycle Time		5 min / 60Hz 6 min / 50Hz	8 min / 60Hz 9.6 min / 50Hz
Dimension(L x W x H)		25 x 12.5 x 8.5 cm or 9.8" x 4.9" x 3.3"	
Weight		1.4kg or 3.08lb	
Environm ent	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	
Classification		Class II, Type BF, IPX0	
Mattress		Specification	
Model	Dimension (L x W x H)	Weight	Pressure Range
5" Mattress	200x90x20.3(cm) or 78.7"x35.4"x8"	5.6kg or 12.4lb	40-90 mmHg
Bubble Pad	198x86x6.4(cm) or 80"x33.9"x2.5"	2.4kg or 5.3lb	50-105 mmHg

NOTE:

- The specification is also suitable for other areas operating with same power supply.
- Consult the distributor or EU representative for other technical documents.
- Please follow national requirements to dispose the unit properly.

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