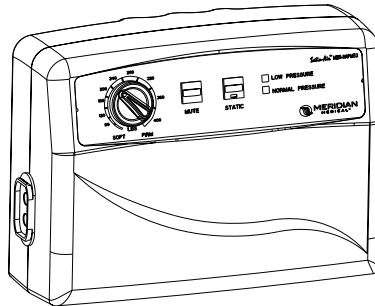


User Manual

Satin-Air™ MER-SAPM53 Low Air Loss Mattress System



Symbols & Statements

NOTE

Indicates some tips and information users should be aware of.

CAUTION

Indicates correct operating or maintenance procedure in order to prevent damage to or destruction of the equipment or other property.

WARNING/DANGER

Calls attention to a potential danger that requires correct procedures or practices in order to prevent personal injury.



Grounding Terminal



Always read the operating instructions before use.

*AP/APG NO indicates the device is NOT suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide.

**Type BF symbol indicates the degree of protection against electric shock.

IMPORTANT SAFEGUARDS

When using electrical products, especially when children are present, basic safety precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING

DANGER

To reduce the risk of electrocution:

- Always unplug this product immediately after use.
- Do not use while bathing.
- Do not place or store product where it can fall or be pulled into a tub or sink.
- Do not place in or drop into water or other liquids.
- 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:

- A product should never be left unattended when plugged in.
- Close supervision is necessary when this product is used by, on, or near children or invalids.
- Use this product only for its intended use as described in this manual.
- Do not use attachments not recommended by the manufacturer.
- 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.
- Keep the cord away from heated surfaces.
- Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair, or any related products.
- Never drop or insert any object into any opening or hose.
- Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.
- Connect this product to a properly grounded outlet only. See Grounding Instructions.

GROUNDING

Before any connection is made, make certain that this product shall not be connected to a protective earth conductor via the three-wire power cord; the three-blade plug shall be inserted only into a socket outlet that provides a protective earth contact. Please refer to page 8 for more information.

Introduction

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

General

The MER-SAP53 system is a high quality and affordable air support surface system suitable for pressure ulcer prevention and treatment. It has been specifically designed for prevention of bedsores and offers an affordable solution to 24-hour pressure area care.

The *Satin-Air™* series has been tested and certified to the following standards:

- UL 1431 (excluding EN 60601-1 & EN 60601-1-2)
- EN 60601-1
- EN 60601-1-2

Intended Use

The MER-SAPM53 system is intended to reduce the incidence of pressure ulcers while optimizing patient comfort. It also provides the following:

- Individual home care setting and long-term care
- Pain management as prescribed by a physician.

Contraindication

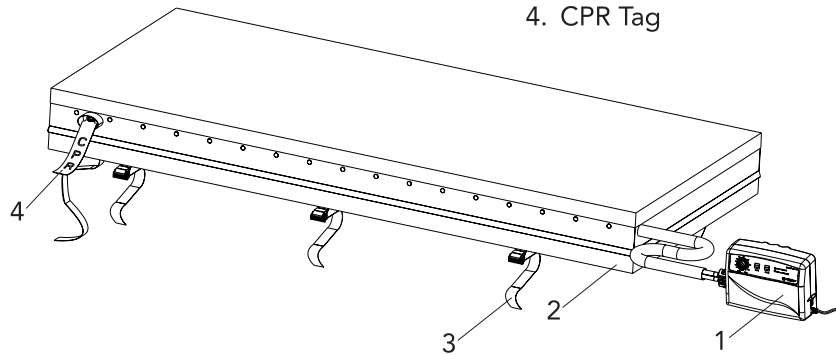
Patient conditions for which the application of pressure relieving therapy on an alternation system is contraindicated are as follows:

- Cervical or skeletal traction
- Unstable spinal cord injuries

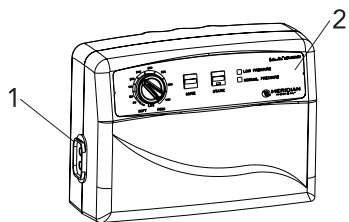
Product Description

Pump and Mattress System

1. Pump Unit
2. Mattress Unit
3. Fixing Strap
4. CPR Tag

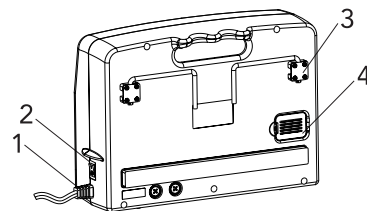


Pump Unit



Front View

1. Quick Connector Slot
2. Front Panel



Rear View

1. Power Cord
2. Power Switch
3. Bed Frame Hangers
4. Air Filter

Installation

1. Place pump on horizontal surface or hang it by means of the hook.
2. Open mattress on the bed. Secure it with end flaps or straps. Air tubes must be at foot end of bed.
3. The air intakes of mattress should be placed in the foot end of the patient, to minimize the noise impact on the patient's airflow.
4. Connect air feed tubes to air outlet on the mattress and pump, ensuring that the tubes are not kinked or twisted. Allow space for bed rails to drop freely.
5. Turn on the pump power. The indicator of the power switch will come on. The pump starts to pump air into the mattress.
6. The Low Pressure indicator (orange) will come on as inflation undergoes.
7. The audible alarm won't alarm within 40 minutes and will be activated if the pressure is still low inside the mattress. In case of low pressure, press the Alarm Reset button to mute the audible alarm, and its indicator will flash.
8. For first inflation, we recommend that you press Static button to enter a quick operation.
9. When the pressure reaches the preset level within approximately 30 minutes, the Normal Pressure indicator will come on, and the Low Pressure indicator will turn off.
10. Patients can directly lie on the mattress or cover with a sheet and tuck loosely, to increase the comfort of the patient.
11. Turn the Pressure Adjust Knob to set a comfortable pressure level from soft to firm.
12. Press the Static button to set it in static mod, and the Static indicator will come on. The static mode will be started within approximately 6 minutes. Press the Static button again to switch back to alternating mode.

NOTE: In static mode, the mattress provides a firm surface that makes it easier for the patient to transfer or reposition. The static mode prevents the patient from bottoming out when in a sitting position.

Grounding Instructions

This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

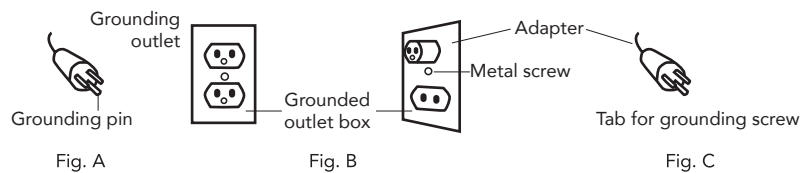
DANGER - Improper use of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the grounding to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripe is the grounding wire.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

This product has a grounding plug that looks like the plug illustrated in figure A below. A temporary adapter, which looks like the adapter illustrated in figure B and C, may be used to connect this plug to a 2-pole receptacle as shown in figure B if a properly grounded outlet is not available. The temporary adapter should be used only until properly grounded outlet (figure A) can be installed by a qualified electrician. The green colored rigid ear, lug, tab or the like extending from the adapter must be connected to a permanent ground such as properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by the screw.

If it is necessary to use an extension cord, use only a 3-wire extension cord that has a three-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Replace or repair if damaged.



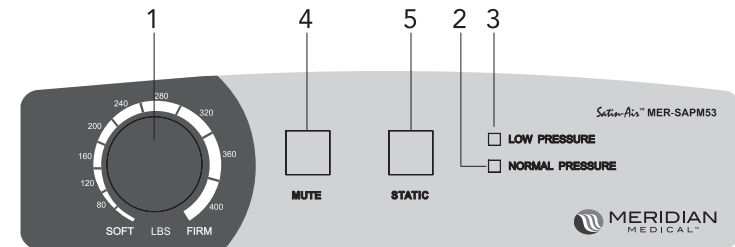
Polarized Plug

— If the product is provided with a 2-wire polarized attachment plug
This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact qualified electrician. Do not attempt to modify the plug in any way.

Operation

⚠ Always read the operating instructions before use.

Panel Operations



- 1. Pressure adjust knob**
 - Turn the soft/firm knob to set a comfortable pressure level.
- 2. Normal Pressure Indicator**
 - A visible indicator (green) tells the pressure has reached a preset or user-defined level.
- 3. Low Pressure Indicator**
 - A visible indicator (orange) tells the pressure has reached a preset or user-defined level.
- 4. Alarm Mute**
 - The audible/visible alarm turns on when the pressure is low.
 - To mute the audible alarm, press the mute button. The visible alarm indicator will flash. The air pressure issue must be corrected in order for the visible alarm to shut off. Once corrected, the audible/visible alarm function will automatically reset.
- 5. Static Control**
 - Press to set the air mattress either in static mode.

Emergency CPR Operations

CPR must be performed on the firm surface. Therefore, if an emergency CPR situation occurs with the resident on the mattress, the mattress must be quickly deflated. This is done by quickly pulling on the CPR tag located at the head of the mattress on the resident's right side. The quick Connector found from the pump unit can also be disconnected to hasten deflation.

Troubleshooting

| Problems | Solutions |
|--|--|
| The pump doesn't work | <ol style="list-style-type: none">1. Check if the plug is inserted firmly into the outlet2. Turn on the power switch again. <ul style="list-style-type: none">• If the power indicator is ON and the pump still doesn't work, contact your local dealer immediately.• If the power indicator is OFF, there may be a faulty outlet. Try to connect the power cord to another outlet. If the power indicator is still OFF, contact a qualified electrician for main power check. |
| Incomplete inflation (Low pressure) | <ol style="list-style-type: none">1. For a quick check, adjust the pressure to Firm.2. Check to see if the inflation tubes connected to the pump are twisted or disconnected, or any leakage occurring. <ul style="list-style-type: none">• Always keep the tubes straight.• Change the tubes if there is any leakage |

Cleaning

In this section, we describe the procedures to clean and decontaminate the pump and bubble pad. It is important to follow these procedures before using the system on patients.

The cleaning task is required at least once a week to maintain personal hygiene.

Pump

Wipe down the pump unit with a damp cloth presoaked with a mild detergent. Avoid contact with dust and proximity to dusty areas. Make sure any cleaning agents you use will not harm or corrode plastic casing on the pump unit.

After using for some time (usually 3 month, depends on the operating environment), clean the air filter cotton inside the enclosure base, steps as below:

- Take out air filter cover and air filter cotton
- Wash air filter cotton by clean water, if the dirt stick too strongly, soak the air filter cotton in the water.
- Dry the air filter cotton then put it back to the air filter cover.

Statement: Patient can only clean the product but not maintain the product, if need, patient can contact the manufacturer for help.

Mattress

- Use neutral detergent to clean surface of pump and mattress; use 75% alcohol to disinfect pump and mattress
- Do not immerse the pump in water.
- Do not heat or steam in autoclave.
- The mattress and cover are ae rated until they are fully dry.

Handling and Storage

- Lay the mattress on a flat surface, upside down.
- Roll up the mattress starting from the head until you reach the foot of the mattress.
- Use the straps at the end of the mattress and stretch them around the mattress to prevent it from unraveling.

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

Maintenance

1. Make sure the pump is in good condition by checking if indicator is illuminated and if there is air out every time when power is on.
2. Make sure the mattress is in good condition by inflating the mattress after connect with pump, and see if mattress alternate every time when using.

Specifications

System

Classification: Class II; AP/APG NO*; Type BF**

Applied Part: Mattress

Input Rating: AC 120V 60Hz or 100V 50/60Hz or 230V 50Hz 12 W, 1A

Fuse Rating: 250V, T1A

Environment Requirements:

- Operation Temperature: 50°F~95°F (10°C~35°C)
- Storage and Transport Temperature: 5°F~122°F (-15°C~50°C)
- Operation Humidity: 20%~80% non-condensing
- Storage and Transport Humidity: 10%~90% non-condensing
- Operation atmosphere: 800hPa to 1060hPa
- Storage and transport atmosphere: 700hPa to 1060hPa

Safety Standards: UL, CE

Pump

Power Supply: 120V/60 Hz, 1A

Air Output: 8 liter/min.

Pressure Range: 30mmHg - 60mmHg (±10)

Cycle Time: 10 min.

Static Mode

Alarm Mute Mode

Normal/Low-Pressure Light

Size: 11"L x 8"W x 4"H

Weight: 5 lbs.

Mattress

Size: 80"L x 36"W x 8"H

Top Cover: Quilted Cover with zipper

Air Cells: Nylon/PVC

Base: Nylon/PVC

17 air cells (5" air cells over 3" foam base)

CPR Valve for emergency procedures

Pillow Function

Low Air Loss

Quick Connectors

Note:

- Due to the continual development of the above products, specifications are subject to change without prior notice.
- Instructions or reference information for repair of equipment parts are provided by the manufacturer, please contact local dealer for further information.

Warranty

Your Meridian brand product is warranted to be free of defects in materials and workmanship for one year on the pump and mattress.

This device was built to exacting standards and carefully inspected prior to shipment. Your Meridian product is warranted to be free of defects in materials and workmanship. If within such warranty period, the product proves defective, the product will be repaired or replaced, at the option of Compass Health Brands.

This warranty does not cover device failure due to owner misuse or negligence, or normal wear and tear. The warranty does not extend to nondurable components, which are subject to normal wear and need periodic replacement.

This warranty shall not apply to serial numbered products if the serial number has been removed or defaced, or to defects or damages caused by unauthorized parts, attachments or repairs, negligence, accident, or any circumstance beyond Compass Health Brands' control, such as improper operation, maintenance or storage.

If you have any questions about your Meridian product or this warranty, please contact an authorized Compass Health Brands dealer.

COMPASSHEALTH

Manufactured for:

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Middleburg Heights, OH 44130

www.compasshealthbrands.com

800.376.7263 • Made with China

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