

Medi-Press®

Intermittent Compression System

OPERATING INSTRUCTIONS

MERIDIAN MEDICAL



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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 electric shock:

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.
6. The power switch is a disconnecting device. When the power switch is turned OFF, the unit will stop operation.

WARNING-To reduce the risk of burns, electric shock, fire, or injury:

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, is not working properly, 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 the 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.
8. Connect this product to a properly grounded outlet only. See Grounding Instructions.
9. Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.

GROUNDING INSTRUCTIONS

Before any connection to the output connectors is made, the unit shall be connected to a protective earth conductor via the three-core main cable; the main plug shall be inserted only into a socket outlet provided with a protective earth contact. The protective action shall not be negated by the use of an extension cord without protective conductor. This product is equipped with a cord that contains a grounding wire with a grounding plug.

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 figures 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.



DESCRIPTION AND OPERATING PRINCIPLE

Medi-Press is an Intermittent Pneumatic Compression device for the treatment and management of a variety of conditions. The application of Intermittent Pneumatic Compression augments blood flow and encourages extracellular fluid clearance.

Medi-Press consists of a pump and either one or two leg or arm garments. The pump provides intermittent cycles of compression at variable pressures which alternately inflate the garments.

The pump operates on a 3 minute, automatically timed cycle consisting of 90 seconds of compression followed by 90 seconds of decompression.

Intermittent Compression may be used on patients suffering from venous insufficiency, venous stasis ulcers, edema following trauma or surgery, in cases of lymphedema following surgery, radiotherapy or chemotherapy, and edema following injury.

SETTING UP THE SYSTEM

The System is very simple to set up and the following guidelines may assist you:

- Remove pump and garments from the packaging.
- Plug pump into socket – DO NOT switch on!
- The pump can be hung by means of the hanging device, or it can be placed on a flat surface.
- Push long tube from garment onto outlet port at the side of the pump.
- If only one garment is necessary, push the tube into any one of the two outlet ports on the pump.

APPLYING THE GARMENTS

Check to see that power switch on pump is OFF. Remove the garment from the wrapping and unfold. The garment will conform to the contours of a limb and is comfortable to wear.

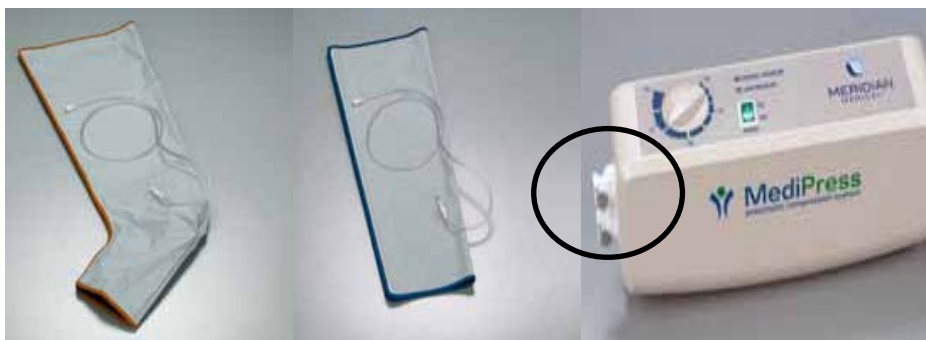
Place the arm or leg into the garment and zip up. Ensure that the zipper is fully secured. Failure to do this could result in the garment becoming undone during inflation.

NEVER APPLY OR REMOVE ANY GARMENT WHILE INFLATED AS THIS CAN CAUSE DAMAGE OR PUNCTURES TO THE GARMENT.

Push tubing over outlet on pump. Ensure that pressure dial on the pump is at a minimum level. Turn power switch ON and increase pressure to required level.

To Use One Garment

If only one garment is necessary, push the tube into any one of the two outlet ports on the pump.



PUMP OPERATION

Pre-use Check

Before using the Medi-Press ensure that:

- Pump has been pre-checked and is working properly.
- Garments have been applied correctly and are fully zipped up and tubing is attached to the pump outlet.
- There are no kinks in the tubing.
- Pump is plugged into electrical socket.
- All connections are secure.

Operation

Set the pressure dial on the pump at a minimum level. Turn power switch ON. The pump light will illuminate and the inflation cycle will start. Increase the pressure to required level. **The garments will take approximately three cycles to fully inflate.**



Before inserting the plug into the outlet, make sure the voltage is compatible. Also make sure this product is well grounded.

PRESSURE ADJUSTMENT

The pressure knob is on the front of the pump. The pressure output of the pump ranges from 30mmHg to 90mmHg. The pressure exerted by the garments can be adjusted by turning this knob.



Turning the knob clockwise increases the pressure; counter-clockwise decreases the pressure.

Low pressure warning

When abnormal pressure occurs, the Low Pressure LED will illuminate. Check that the connections are secure and correctly installed according to the relevant instructions. **NOTE ! If the pressure is consistently low, check for any leakage (tubes or connecting hoses). If necessary, contact your local dealer to replace any damaged tubes or hoses.**

TROUBLESHOOTING

In the event that the garments do not inflate properly, please check that:

1. All tubing connections at pump and garments are securely attached and that tubing is unobstructed.
2. Visually inspect garments for punctures or tears.
3. The garment pull rings are secure.

INDICATIONS AND TREATMENT GUIDELINES

The following recommended treatment protocols have been established after reviewing current literature. These recommendations should be utilized as a guideline and should not be used as a substitute for clinical judgment and experience.

External Pneumatic Compression systems are to be used only under the direct supervision of a licensed practitioner. The practitioner must prescribe the treatment *pressure, frequency and duration*.

<u>Condition</u>	<u>Pressure</u>	<u>Duration</u>	<u>Frequency</u>
EDEMA			
Dependent (post-stroke, paralysis, pregnancy)	40 mmHg	1-2 hours	twice/day
Traumatic (post-injury, surgery)	40 mmHg	30 min. – 1 hour	twice/day
Lymphedema:			
Mild	40-50 mmHg	1-2 hours	twice/day
moderate/severe	50-60 mmHg		2-4/day
Venous (post phlebitic syndrome, Venous insufficiency)	50 mmHg	30 min. – 1 hour	twice/day
VENOUS STASIS	50 mmHg	30 min. – 1 hour	twice/day
ULCERS			

CONTRAINDICATIONS

Contraindications

Compression IS NOT recommended under the following conditions:

1. Severe arteriosclerosis or other ischemic vascular disease.
2. Edema due to congestive cardiac failure.
3. Known or suspected Deep Vein Thrombosis (DVT).
4. Extreme deformity of the limbs.
5. Any local conditions in which garment would interfere, for example:
 - Gangrene
 - Recent skin graft
 - Dermatitis
 - Untreated, infected wounds.

WARRANTY AND SERVICE

Warranty Information

All Meridian Medical products shall conform to the specifications as listed on the applicable product information bulletin. However, Meridian Medical reserves the right to change specifications at any time with or without notice. The Warranty period for Meridian Medical products shall be as follows:

1. Garments: One Year
2. Pumps: One year. The pump will be either repaired or replaced free of charge for defects in materials and/or workmanship. Meridian Medical's sole liability to the Customer is for nonconformity of any Products to the specifications or for any claim arising out of, or in anyway connected with the manufacture, sale, handling, or use of the Products, or for another reason, shall be at Meridian Medical's sole option, limited to the refund of the purchase price for such Products, plus any invoice shipping charges, or the replacement of the Product free of charge.

CLEANING INSTRUCTIONS

The outside casing of the pump is made from ABS plastic and can be cleaned using a soft cloth and water. Please refer to your local policy for cleaning procedures.

Pump Unit:

- ▶DO NOT immerse or soak the pump unit.
- ▶Check for external damage and move the pump to the cleaning area.
- ▶Place the pump on a work surface and spray or wipe the outside of the case with quaternary ammonium solution.
- ▶DO NOT spray any cleaning solution directly on the surface of the pump.
- ▶DO NOT use a Hypocarbonate or Phenolic based cleaning solution as this may cause damage to the case. Allow the solution to incubate for 10 minutes or accordingly as stated by the cleaning product used.
- ▶Wipe case with a clean cloth. Make sure all areas are clean (top and bottom, both sides).
- ▶Spray cloth with cleaning solution and clean faceplate. DO NOT allow excess cleaning solution on faceplate or control panel. (If solution gets inside, damage will occur.) Allow surface to thoroughly dry after cleaning.
- ▶After the pump is thoroughly cleaned and dried, proceed to plug in the pump and test to see if it runs normally.

Unplug the pump and store with proper identification tag.

Garment:

The garment can be washed in lukewarm water using normal detergent or soap powder, or can be gas sterilized. In order to machine wash Medi-Press garments, remove the "T" piece cover and insert tube end onto "T" piece. This forms a complete circuit and will protect the inner chambers. Ensure safety pull ring is in place and put in machine. The water temperature must not exceed 40 degrees C.

- ▶DO NOT DRY CLEAN.
- ▶DO NOT IRON.
- ▶Gas sterilization is suitable for these garments. The temperature must NOT exceed 125 degrees F (51 degrees C.)
- ▶The garments cannot be sterilized by autoclaving.

ORDERING INFORMATION

New Accounts: C.O.D. until Meridian Medical credit application is submitted and approved.
Pricing: Although a reasonable delay is usually given to our customers, prices are subject to change without notice.
Ordering Call us at 888-343-3352, Fax 865-769-0398
Quantity Discounts: Any order combination of 10 cases of garments will receive a 10% discount.
Shipping: Pricing is F.O.B. Warehouse. Ordering Contract Pricing: Contact Sales Department Returned Goods Policy: In order to promptly process your return, you must obtain our prior authorization. Please contact Customer Service Department, 888-343-3352.
Terms and Conditions: Terms are Net 30 days from invoice date. A late charge or service charge of 1.5% monthly or 18% annually will be charged on outstanding balances, which are 30 days past the invoice date. Orders will not be shipped on delinquent accounts.

Pump #:

M1-01 (Meridian Medical #6101)

PNEUMATIC COMPRESSOR, NON-SEGMENTAL HOM MODEL –HCPCS
E0650

Garment#:

6104M

NON-SEGMENTAL PNEUMATIC APPLIANCE FOR USE WITH PNEUMATIC
COMPRESSOR FULL ARM, - HCPCS E0665

6103M

NON-SEGMENTAL PNEUMATIC APPLIANCE FOR USE WITH PNEUMATIC
COMPRESSOR, FULL LEG- HCPCS E0660

6102

NON-SEGMENTAL PNEUMATIC APPLIANCE FOR USE WITH PNEUMATIC COMPRESSOR, HALF LEG-HCPCS E0666

6102-S

SEGMENTAL GRADIENT PRESSURE PNEUMATIC APPLIANCE, HALF LEG- HCPCS E0673

6103M-S

SEGMENTAL GRADIENT PRESSURE PNEUMATIC APPLIANCE, FULL LEG- HCPCS E0671

6104M-S

SEGMENTAL PNEUMATIC APPLIANCE FOR USE WITH PNEUMATIC COMPRESSOR- FULL ARM E0672

Intended Use

The M1-01 (Meridian Medical #6101) is intended to reduce the incidence of pressure ulcers while optimizing patient comfort. It also provides the following:

- ▶ Individual settings for home care and long-term care.
- ▶ Pain management as prescribed by a physician.

TECHNICAL DATA

Pump Model Number: M1-01 (Meridian Medical #6101)

Classification: Class I; IPX0; AP/APG NO; Type BF ;

Grounding Terminal 

Applied Part: Garment/Sleeve/Pneumatic Appliance

Size: 11.75" (W) x 3.5" (H) x 5.5" (D)

Weight: 3.3 lbs

Pressure Range: 30 – 90 mmHg

Cycle Time: 90 second inflation
90 second deflation

Indicators: Power on, low air pressure, pressure dial

Rated Voltage: AC 120V

Rated Frequency: 60Hz

Rated Input Power: 12W, 1A

Fuses: 125V, T1A

Safety Standards: UL, c-UL, CE

Environment Requirements: ► Temperature: Operation 50°F~95°F (10~35°C)

Storage 59°F ~122°F (15~50°C)

Shipping 59°F ~158°F (15~70°C)

► Humidity: Operation 20%~80% non-condensing

Storage 10%~90% non-condensing

NOTE !

The above specifications are also applicable to those areas operating with the same power supply range.

AP/APG NO indicates the device is NOT suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide. Type BF symbol indicates the degree of protection against electric shock.

Instructions or reference information for repair of equipment parts are provided by the manufacturer; please contact local dealer for further information.

Refer to current regulations regarding proper pump disposal.



Certified for Medical Equipment-Air Pump with respect to electrical shock, fire and mechanical hazards only in accordance with UL60601-1 AND CAN/CSA C22.2 NO.601.1