

# *PULSEPRESS*

*DYNAMIC COMPRESSION THERAPY*

## *OPERATING INSTRUCTIONS*



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## ***SAFETY INSTRUCTIONS***

Read all of these instructions and save them for later reference. Follow all warnings and instructions marked on the devices.

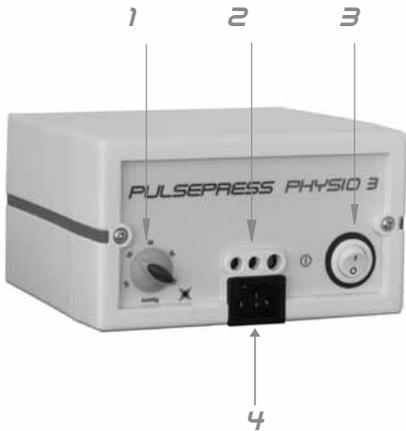
- These units must only be operated by qualified medical staff. Operation of these units by any other person is entirely the responsibility of that person.
- This manual must be read and fully understood before these units are applied to patients.
- Equipment not suitable for use in the presence of Flammable Anesthetic mixture with air or with oxygen or nitrous oxide.
- Unplug the pumps before cleaning. Only ever use a damp cloth. Do not spill liquid onto the pump enclosure.
- Always place pumps on a flat, stable surface before operation. The pumps will not operate properly if tilted or at an angle.
- Do not cover the pumps whilst in operation.
- Use only the type of power source indicated on the pump's rear label.
- Do not use a damaged or frayed power cord.
- Unplug the pumps and refer servicing to qualified personnel under the following conditions:-
  - o If the power cord or plug is damaged.
  - o If liquid has entered the pumps.
  - o If the plastic outer enclosure is damaged.
  - o If the pump is not operating normally, continuous running, noisy running or low performance.
- Always switch off the pump before unzipping the garments.

## ***ELECTROMAGNETIC INTERFERENCE***

This equipment has been constructed and tested to comply with EN60601-1-2 (EMC regulations for Medical devices). This test was designed to provide reasonable protection against harmful interference. This equipment may generate and radiate radio frequency energy and, if not installed correctly may cause interference to radio communications. If this equipment does cause interference then the user is encouraged to try to correct the interference by one or more of the following measures:-

- Re-orientate or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer of the device.

## PHYSIO 3 CONTROLS



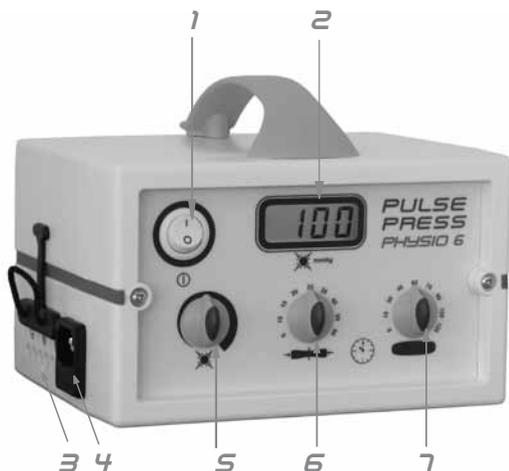
1. Pressure Control: This sets the air pressure in the garments to that stated on the front panel in mmHg. 20 - 60 mmHg
2. Air Outlet: This is where the garment air tube is attached.
3. Power Switch: This turns the unit on and off. The unit starts cycling as soon as power in turned on. The system automatically sets the inflation to that needed by the garment being used. Once the pressure in the garment hits the set pressure the system deflates for a fixed time period.
4. Power Inlet: This is where the power cable is plugged in.

## PHYSIO 3 PRO CONTROLS



1. Pressure Control: This sets the air pressure in the garments. To set the pressure attach a garment and set the inflation to 120 secs. Switch the pump on and wait for the pressure meter reading to settle on a number. Now adjust the pressure, clockwise to increase, to the desired level, giving the system time to settle.
2. Pressure Meter: This displays the pressure in the garment at all times in the cycle.
3. Deflate Timer Control: This sets the deflation time cycle, in seconds.
4. Air Outlet: This is where the air tube is attached. The unused air outlet is plugged. Unplug for second garment.
5. Power Inlet: This is where the power cable is plugged
6. Power Switch: This turns the unit on and off. The unit starts cycling as soon as power in turned on.
7. Inflate Timer Control: This sets the inflation time cycle, in seconds. **NB** if the inflate time is set too low then the system will not have time to reach the desired pressure.

## PHYSIO 6 CONTROLS



1. Power Switch: This turns the unit on and off. The unit starts cycling as soon as power is turned on.
2. Pressure Display: This displays the pressure set by the user. When the set pressure is reached in the garment the compressor switches off and waits for the cycle time to complete prior to deflating the garment. When this happens 0mmHg is displayed.
3. Air Outlet: This is where the air tube is attached. For use with a single garment the top bung must be in place. Remove the bung for use with two garments.
4. Power Inlet: This is where the power cable is plugged
5. Pressure Control: This sets the air pressure in the garments to that stated on the pressure display from 30-100mmHg
6. Deflate Timer Control: This sets the deflation time cycle, in seconds.
7. Inflate Timer Control: This sets the inflation time cycle, in seconds.

## PHYSIO 12 PRO CONTROLS



1. Power Switch: This turns the unit on and off. The unit starts cycling as soon as power is turned on.
2. Pressure Display: This displays the pressure set by the user. When the set pressure is reached in the garment the compressor switches off and waits for the cycle time to complete prior to deflating the garment. When this happens 0mmHg is displayed.
3. Air Outlet: This is where the air tube is attached. For use with a single garment the top bung must be in place. Remove the bung for use with two garments.
4. Power Inlet: This is where the power cable is plugged
5. Pressure Control: This sets the air pressure in the garments to that stated on the pressure display from 30-100mmHg
6. Deflate Timer Control: This sets the deflation time cycle, in seconds.
7. Inflate Timer Control: This sets the inflation time cycle, in seconds. Auto mode sets the inflation and deflation setting to the optimal for the garment. Just select a pressure and the rest is done by the internal microprocessor
8. Therapy Control. This sets the therapy time, in minutes. The black start button needs to be pushed to start the unit. Once complete the unit beeps and vents.
9. Start button. Press this to start the unit running. Once selected therapy time is completed press this to restart the system

## OPERATING INSTRUCTIONS

**WARNING:** These units must only be operated by qualified medical staff. Operation of these units by any other person is entirely the responsibility of that person.

**WARNING:** This manual must be read and fully understood before these units are applied to patients.

**WARNING:** Refer to section on indications and contra-indications prior to the unit being applied to patients.

### Application to Patient

These units are designed to provide compression to the Pulse Press range of Solo and Multi pressure garments. Each unit can be connected to one or two garments simultaneously. If only one garment is being used then the other outlet is sealed.

For the Multi pumps the blanking plug must be removed to use a second garment. The hoses connection is unable to be the wrong way round. The other end of the air feed hose simply pushes onto the garment.

For the Solo pumps the hose latches into the outlet with a push and twist action. The other end of the air feed hose pushes into the garment inlet elbow.

### Operational Use

1. Connect the mains lead to the IEC power inlet socket. Insert the mains plug of the lead into a standard 220-240 V mains socket.
2. Fit the air feed hose(s) to the air outlets, as described above. Ensure that all connections to the pump and garment make a good seal.
3. Place / fit the garment(s) onto the limb(s) requiring treatment.
4. Turn the unit on. A visual mains indicator will illuminate.
5. Select the required pressure using the pressure control.
6. Set up the inflate and deflate times as required.
7. Note the time the treatment starts so that the unit can be switched off when the desired time has elapsed.
8. DO NOT unzip the garment when the unit is switched on. This may cause damage to the garment. Always turn off the power before unzipping the garment.
9. Extra comfort can be obtained by first placing a Pulse Press Garment Liner on the limb under the pressure garment.

## **CARE AND MAINTENANCE**

### **PUMP**

Before cleaning the pump unit, always ensure it has been disconnected from the mains power supply. Clean the unit with a light detergent, ensuring that only a damp, and not wet, cloth is used. If in doubt as to the action of the detergent, try cleaning the underside of the unit first, where damage will be unseen.

There are no service items which need replacing or cleaning out on a regular basis. All technical information can be found at '[www.mjsgroup.com](http://www.mjsgroup.com)' .

### **GARMENT**

The garments can be sponged with a detergent. Allow to dry fully before use. **DO NOT FORCE DRY.**

In the event of heavy soiling the garments can be machine washed. See wash label. Always insert the air entry blanking plug, to prevent water ingress, and turn the garment inside out prior to machine washing.

## **INDICATIONS AND CONTRA-INDICATIONS**

### **INDICATIONS**

VENOUS	Post phlebotic syndrome, varicose veins, varicosities of pregnancy, stasis dermatitis, leg ulcers.
WOUND RECOVERY	Venous ligation or stripping, hand surgery, total knee replacement.
D.V.T.	For prevention of deep vein thrombosis.
ARTERIAL	Raynaud's disease, arteriosclerosis, acrocyanosis, blue leg.
EDEMA	Gravitational, lymphatic, post mastectomy, inguinal lymphadenectomy, after cast removal, rheumatoid, multiple sclerosis.
FLEXION CONTRACTURES	Chronic, injury, burns and skin graft.

### **CONTRA-INDICATIONS**

Acute thrombophlebitis, acute pulmonary edema, congestive heart failure, known or suspected deep vein thrombosis.

## TECHNICAL SPECIFICATIONS

Power Source 220-250V AC

Frequency 50Hz

Internal Fuse T500mA



Type BF

Caution

Equipment not suitable for use in the presence of Flammable Anesthetic mixture with air or oxygen or nitrous oxide.



Read instructions prior to using equipment.

Water Resistance Ordinary Equipment

Mode Intermittent Operation

Storage / Operation Equipment to be stored / used between 20 and 30 degrees C  
Equipment suitable for use 0-50% humidity.

Pressure Regulation Range 30 - 60 / 100mmHg  $\pm$ 5mmHg

Pressure Meter LCD Display. Range 0-100mmHg  $\pm$ 2mmHg

### The following data applies to Physio 3, Physio 3 Pro, Physio 6

Power Consumption 20W



Class II (Double Insulated Device)

### The following data applies to the Physio 12 Pro

Power Consumption 40W



Class II ( Double Insulated Device)