EFFECT 800 PLUS
Mattress Replacement System

User Manual
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**SUPPORT SETTING PROCEDURES**

It is important to follow the correct support setting procedure to ensure the patient receives adequate support (lift) while achieving maximum pressure relief and comfort.

1. Select the correct setting as indicated below and press the appropriate button.
2. The mattress will now inflate. When the low pressure indicator has extinguished for more than 5 minutes you can position your patient on the mattress. For attending to your patient whilst they are on the mattress it is recommended that you use the “Patient Care” function on the pump. This is a temporary static mode that reverts back to its previous setting once 30 minutes has passed.

### EFFECT 800 PLUS WEIGHT CONVERSIONS

<table>
<thead>
<tr>
<th>Weight in Kg</th>
<th>Weight in Pounds</th>
<th>Weight in Stones</th>
<th>Pressure Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 50 Kg</td>
<td>110</td>
<td>8</td>
<td>1 to 3</td>
</tr>
<tr>
<td>50 Kg to 75 Kg</td>
<td>110 to 165</td>
<td>8 to 12</td>
<td>3 to 5</td>
</tr>
<tr>
<td>76 Kg to 100 Kg</td>
<td>165 to 210</td>
<td>12 to 16</td>
<td>5 to 6</td>
</tr>
<tr>
<td>100 Kg +</td>
<td>210 +</td>
<td>16 +</td>
<td>7</td>
</tr>
</tbody>
</table>

**MAXIMUM WEIGHT LIMIT 240 Kg (530 lbs – 38 Stone)**

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**CHAPTER 1**

**IMPORTANT SAFEGUARDS READ ALL INSTRUCTIONS BEFORE USE**

**DANGER – To reduce the risk of electrocution:**

1. Always unplug the product immediately after use.
2. Do not place or store product where it can fall or be pulled into a bath or sink.
3. Do not place or drop into water or any liquid.
4. 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. Use the product for its intended use as described in the manual. Do not use attachments not recommended by the manufacturer.
2. Never operate this product if it has a damaged cord or plug, if it is not working properly or if it has been dropped in water or damaged. Return the product to a service centre for examination and repair.
3. Keep the power cord away from heated surfaces.
4. 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.
5. Never drop or insert any object into any opening or hose.
6. Always connect this product to a properly grounded outlet only.

**NOTE, CAUTION AND WARNING STATEMENTS**

**NOTE**
Indicates advice.

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

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

“The BF symbol indicates this product in accordance to the degree of protecting against electric shock for type BF equipment.

Instructions should be read

Ground terminal
INTRODUCTION

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

2. General Information
   The system is a high quality mattress system suitable for treatment and prevention of pressure ulcers.
   The system has been tested and successfully approved to the following standards:

   ![CE Mark]
   EN 60601-1
   EN 60601-1-2

3. Intended Use
   This product is intended to help reduce the incidence of pressure ulcers while optimizing patient comfort.

   ![NOTE]
   This equipment is not suitable for use in the presence of a flammable aesthetic mixture with air or oxygen or nitrous oxide.

GENERAL SAFETY

Before you use your Effect Mattress System, please familiarize yourself with the information in this user manual.

For your safety and the efficient performance of the system the following precautions should be observed:
- Do not expose the pump to liquids of any kind
- Always protect the system from open flames
- Avoid the use of Phenol base solutions when cleaning
- Store the system in a clean and dry environment
- Do not store in direct sunlight

See instructions for use: ![As labelled accordingly]

There is a possibility of electro-magnetic interference with other devices.

WARNING

ELECTRICAL EQUIPMENT CAN BE HAZARDOUS IF MISUSED. ONLY AUTHORISED TECHNICAL PERSONNEL SHOULD REMOVE THE PUMP FOR MAINTENANCE.

WARNING

DO NOT USE THE PUMP IN THE PRESENCE OF FLAMMABLE GASES

WARNING

BOTH THE POWER FAIL AND LOW PRESSURE ALARMS CAN BE SILENCED BY PRESSING THE “ALARM SILENCE” BUTTON ON THE FRONT OF THE PUMP UNIT.

WARNING

BEFORE CLEANING THE PUMP UNIT, PLEASE ENSURE THAT THE ELECTRICAL SUPPLY HAS BEEN DISCONNECTED. PLEASE REMOVE THE PLUG FROM THE POWER SUPPLY.

CAUTION

DO NOT USE THE SYSTEM AS A MEANS FOR LIFTING THE PATIENT.
TRANSPORT & STORAGE CONDITIONS

NOT TO GO OUTSIDE THE FOLLOWING RANGES IN A PERIOD NOT EXCEEDING 15 WEEKS

AN AMBIENT TEMPERATURE OF 15 deg c TO 70 deg c

A RELATIVE HUMIDITY RANGE OF 10% TO 90% INCLUDING CONDENSATION

STORAGE

1. To store the mattress, lay the mattress out flat and upside down.
2. Roll the head end towards the foot end with the CPR in the open position.

⚠️ NOTE: Do not fold, crease or stack the mattress. Avoid direct sunlight.

CHAPTER 2

PRODUCT DESCRIPTION

The Effect 800 Plus is an alternating mattress replacement system used in the prevention and treatment of pressure ulcers. By using the established principles of alternating therapy the Effect 800 Plus offers patients a comfortable and relaxing support surface which can both prevent breakdown and enhance healing.

The Effect 800 Plus pump unit is a compact product featuring:
1. An audible and visual low pressure / power failure alarm.
2. Key lock facility.
3. Battery back up supply.
4. Service and usage counters on the visual LED display.
5. Service indicator.
6. Patient care mode (Temporary Static).
7. Fully adjustable pressure.
8. Remote reset for usage time and service indicator.

The Effect 800 Plus mattress has the benefit of the following features:
1. 20 non vented PU cells. (15 at 5” width for the body area and 5 at 3” width for the heal area giving maximum protection to the lighter heal area).
2. CPC style quick release connectors on each cell for easy replacement.
3. Heavy duty nylon base sheet with a vapour permeable coated stretch cover. The top cover is 100% welded (no stitching) top cover for improved infection control.
4. Highly visible CPR facility to be used in the event of cardiac arrest.
5. Easy use transport facility for patient transfers where the battery back up system can not be used.
6. Cable tidy sections built into the side if the cover base.
7. Fully removable / interchangeable top cover for easy cleaning / replacement.
8. Static head section (top 3 cells) for increased patient comfort.
BRIEF OPERATING PROCEDURES

EFFECT 800 PLUS ALTERNATING MATTRESS REPLACEMENT SYSTEM

Installation
1. Unpack the system and place the pump at the foot end of the bed.
2. Remove the existing mattress and place the support surface directly onto the bed frame with the vapour permeable cover uppermost, ensuring that the inflation tubes are also at the foot end of the bed.
3. Connect the air hoses from the mattress to the three pipe connector on the side of the pump.
4. Plug the pump into a wall socket.
5. Turn the wall socket on.
6. Turn the pump unit on.
7. The pump indicators should now be illuminated and the system will now be performing the initial inflation procedure.
8. Set the required pressure of the system by simply pressing the + or – until the required pressure setting indicator is illuminated.
9. After the low pressure light has extinguished for more than 5 minutes the patient can be positioned on the mattress taking note of the foot illustrations on the mattress to ensure the patient is at the correct end of the bed. (The inflation time should not exceed 25 minutes.)
10. The keypad will lock out after 5 minutes without activity. This is to prevent the system being altered accidentally. To access the system simply press and hold the key lock button for 5 seconds. You can now use all the functions on the system.

Operating Functions
a) Patient Care Mode
Should you wish to bathe your patient or if the patient requires a dressing change etc it is advised that you press the patient care button. This function will put the system into a temporary static mode which will automatically revert back to its previous setting after 30 minutes has elapsed.

b) Low Pressure Alarm
The pump unit has both a visual and audible low pressure alarm built in. The pump constantly monitors the internal pressures of the mattress to ensure that if a pressure malfunction occurs it will not go undetected. The alarm can be silenced by pressing the “Alarm Silence” button on the front of the pump.

c) Battery Back Up & Mains Failure Alarm
The Effect 800 Plus has a built in battery back up system. This enables you to transfer your patient whilst still maintaining the maximum pressure relief. The battery back up will automatically engage if power to the pump is removed. This will operate the system with full functions for up to 1 hour. Note that the power switch on the front of the pump must still be in the on position. When the battery backup is in use the notification alarm will sound to confirm this function is required. To silence the alarm and confirm battery back up mode simply press the “Alarm Silence” button. Once the power has been restored the system will automatically recharge the internal battery.

d) CPR Requirement
If rapid deflation of the mattress is required simply twist the CPR unit to the open position. Instantly you should hear air being released from the mattress. The system should deflate within 20 seconds. To close the CPR simply twist the CPR unit to the closed position.

e) Infection Control
Should the mattress become infected please refer to our disinfection protocol.

CHAPTER 3

CLEANING YOUR SYSTEM - DISINFECTION PROTOCOL

The following guidelines are suggested by Prius Healthcare as being suitable infection control procedures. Further information is available.

PUMPS
It is important to follow the cleaning procedures for single patient use. General cleaning may be effected by using a cloth dampened with a mild detergent and water solution. This approach may be followed either by wiping with a sodium hypochlorite solution to a dilution of 1000 ppm or by using an alcoholic wipe.

Wipe the pump unit with a damp cloth and mild detergent and keep it away from dust. If another 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.
Do not use hyper carbonate or phenol based cleaning solutions.
Do not use any abrasive compounds or cleaning pads.

MATTRESS
During general use the mattress and tube set may be cleaned by using a mild detergent solution. Where appropriate mattresses covers may be completely removed for laundering or sterilization. Whenever there is staining or bodily fluids on the mattress, including the cells and tubing, then a sodium hypochlorite solution to a dilution of 1000 ppm should be used following thorough cleansing with soap and water.

All mattress covers may be laundered as follows:
Pre Wash 71 deg c for 15 minutes
Main Wash 71 deg c for 15 minutes
Followed by Cold rinses and extraction

⚠️ CAUTION: Do not use phenol based products for cleaning.
⚠️ CAUTION: Dry the mattress on a SUNLESS capitalized area after cleaning.
⚠️ CAUTION: During cleaning procedures suitable protective clothing should be worn. Ensure the mains power supply to the pump has been disconnected prior to cleaning.

NOTE: Follow the national requirements to dispose of the unit properly.
ANNUAL MAINTENANCE

1. Ensure that all the hoses inside and outside the pump are kink and split free. If any splits are found replace the affected hoses.
2. Ensure the hoses inside and outside the pump are not brittle. Replace if needed.
3. Check that all indicators are working. If not the faulty indicators need to be replaced by your service provider.
4. Check the main power cord or plug for abrasions or excessive wear.
5. Check the mattress cover for signs of wear or damage. Ensure the mattress cover and hoses are connected together correctly.
6. Check the air hoses for kinks or breaks.

GUARANTEES AND WARRANTIES

1. PUMPS
   This pump has a guarantee for a period of 2 years from date of dispatch.
2. MATTRESS
   This mattress has a guarantee for a period of 2 years from date of dispatch.
3. GUARANTEE
   The company guarantees to repair or replace any equipment issued to its customers which is found to be faulty during the relevant guarantee or warranty period. **The company’s guarantees are subject to the following conditions:**
   a) That the equipment has been used for the purpose for which it was intended.
   b) That the usage has been on a “fair wear and tear” basis.
   c) That the company’s cleaning / disinfection guidelines have been followed.
   d) That the company’s maintenance guidelines have been followed.
   e) That the maintenance has been carried out by a suitable qualified person.
4. WARRANTY
   Extended warranties can be purchased from Prius Healthcare, for more information contact customer services on 01226 770225
5. CLAIMS RELATING TO GUARANTEE OR WARRANTY
   In the event of a fault being discovered within the period, the customer shall notify the company at the earliest opportunity. If upon inspection, the company accepts liability then the equipment shall be repaired or replaced immediately. If the company does not accept liability it shall inform the customer of its reasons and provide the customer with an estimate of either repair or replacement costs.

THE COMPANY RESERVES THE RIGHT TO ALTER OR AMEND THIS DOCUMENT WITHOUT NOTICE.

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<thead>
<tr>
<th>FAULT DESCRIPTION</th>
<th>THINGS TO CHECK</th>
<th>SOLUTION TO THE PROBLEM</th>
<th>IF STILL NOT WORKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE PUMP IS SHOWING NO INDICATIONS IT IS WORKING</td>
<td>MAINS IS PLUGGED IN</td>
<td>PLUG IN</td>
<td>RETURN PUMP TO YOUR SERVICE PROVIDER</td>
</tr>
<tr>
<td></td>
<td>MAINS IS TURNED ON</td>
<td>TURN ON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FRONT SWITCH IS ON</td>
<td>TURN ON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FUSE IN THE PLUG OR PUMP HAS BLOWN</td>
<td>REPLACE ALL FUSES (2x1A 1x5A)</td>
<td></td>
</tr>
<tr>
<td>THE LOW PRESSURE LIGHT IS CONSTANTLY ON AND THE ALARM</td>
<td>THE HOSES ARE ALL CONNECTED</td>
<td>RECONNECT HOSES</td>
<td>RETURN PUMP TO YOUR SERVICE PROVIDER</td>
</tr>
<tr>
<td></td>
<td>THE CPR IS IN CLOSED POSITION</td>
<td>TURN THE CPR TO THE CLOSED POSITION</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THERE ARE NO LEAKS IN THE MATTRESS SYSTEM</td>
<td>RETURN THE MATTRESS TO YOUR SERVICE PROVIDER</td>
<td></td>
</tr>
<tr>
<td>THE PUMP IS ON BUT NOT INFLATING THE MATTRESS</td>
<td>DISCONNECT THE HOSES FROM THE PUMP TO SEE IF AIR IS COMING OUT</td>
<td>RETURN PUMP TO YOUR SERVICE PROVIDER</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THE HOSES ARE ALL CONNECTED</td>
<td>RECONNECT HOSES</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THE CPR IS IN THE CLOSED POSITION</td>
<td>RETURN THE CPR TO THE CLOSED POSITION</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THERE ARE NO OBVIOUS LEAKS IN THE MATTRESS</td>
<td>RETURN MATTRESS TO YOUR SERVICE PROVIDER</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHECK THE PRESSURE IS AT THE CORRECT SETTING FOR YOUR PATIENTS WEIGHT</td>
<td>ADJUST THE PRESSURE TO THE CORRECT SETTING</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THERE ARE NO KINKS IN THE TUBING RUNNING DOWN THE SIDE OF THE MATTRESS</td>
<td>UNTWIST ANY KINKS FOUND</td>
<td></td>
</tr>
<tr>
<td>THE SYSTEM DOES NOT APPEAR TO BE ALTERNATING</td>
<td>THERE ARE NO KINKS IN THE TUBING RUNNING DOWN THE SIDE OF THE MATTRESS</td>
<td>UNTWIST ANY KINKS FOUND</td>
<td>RETURN SYSTEM TO YOUR SERVICE PROVIDER</td>
</tr>
<tr>
<td>THE PUMP IS OPERATING NOISILY</td>
<td>THE PUMP IS NOT RSTING AGAINST A SOLID SURFACE</td>
<td>REPOSITION PUMP</td>
<td>RETURN PUMP TO YOUR SERVICE PROVIDER</td>
</tr>
</tbody>
</table>

CHAPTER 4

EFFECT RANGE TROUBLESHOOTING PROCEDURES
**TECHNICAL DESCRIPTION**

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

**Specifications:**

<table>
<thead>
<tr>
<th><strong>PUMP</strong></th>
<th><strong>SPECIFICATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PEP800P</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC230V, 50Hz, 0.25A, 230V System</td>
</tr>
<tr>
<td>Fuse Rating</td>
<td>1A, 250V</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>10 min</td>
</tr>
<tr>
<td>Dimensions</td>
<td>16.5”x4.7”x11” (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
<td>4.8 Kg</td>
</tr>
<tr>
<td>Environment (Temperature)</td>
<td>Operation: 10 deg c to 40 deg c</td>
</tr>
<tr>
<td></td>
<td>Storage: -15 deg c to 50 deg c</td>
</tr>
<tr>
<td></td>
<td>Shipping: -15 deg c to 70 deg c</td>
</tr>
<tr>
<td>Environment (Humidity)</td>
<td>Operation: 10% to 90% non-condensing</td>
</tr>
<tr>
<td></td>
<td>Storage: 10% to 90% non-condensing</td>
</tr>
<tr>
<td></td>
<td>Shipping: 10% to 90% non-condensing</td>
</tr>
<tr>
<td>Classification</td>
<td>Class I, Type BF, IPX0, No AP/APG Protection, Continuous.</td>
</tr>
<tr>
<td>Applied Part</td>
<td>Air Mattress</td>
</tr>
</tbody>
</table>

**MATTRESS**

<table>
<thead>
<tr>
<th><strong>SPECIFICATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Pressure Range</td>
</tr>
</tbody>
</table>
Our Company Profile

Prius Healthcare is based on exemplary Customer Care, and with that in mind we have a specially dedicated direct telephone care line which is available to all customers 24 hours a day 365 days a year.

Prius Healthcare have offices in USA, Japan, Taiwan, Australia and France along with our UK base we can offer a very high standard of customer care with the support expected from our customers professionally delivered without fail.

Our specially chosen backbone of distributors nationwide work in partnership with ourselves and this way, we are able to support contracts anywhere within the UK, Ireland and the Channel Islands.

Prius Healthcare holds BSEN ISO9001 accreditation. All our products strictly conform to European Directives and are CE marked, quality tested and trialled within the UK.