PEGASUS
LIMITED

Convertible II

Low Air Loss Mattress System

User Guide

LFT10943 Issue 3

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LIMITED

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Low Air Loss Mattress System

The **CONVERTIBLE II** is a Low Air Loss Mattress Replacement System suitable for patients who may have limited mobility and be highly vulnerable to pressure damage.

It offers constant, gentle, low pressure support for patients, including those who may be in severe pain.

The system also offers:

- Adjustment of pressure for optimum patient support.
- Constant airflow to optimise the environment at the patient/mattress interface.
- Maximum pressure setting which provides a firm surface for physiotherapy and nursing procedures.

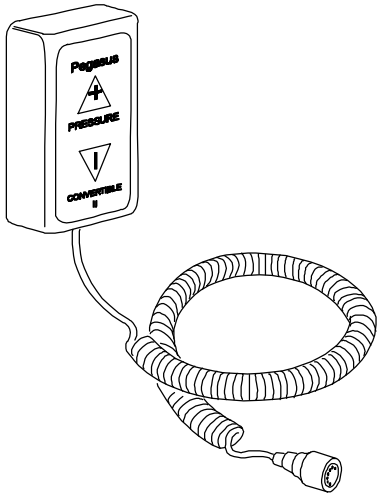
Immobile patients, or those not able to be repositioned, are at greater risk of pressure damage and can be nursed on the **CAIRWAVE** Therapy System.

CONVERTIBLE II

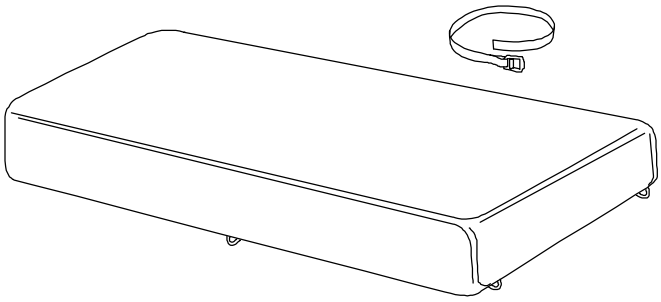
CONTENTS

SECTION A – LIST OF PARTS

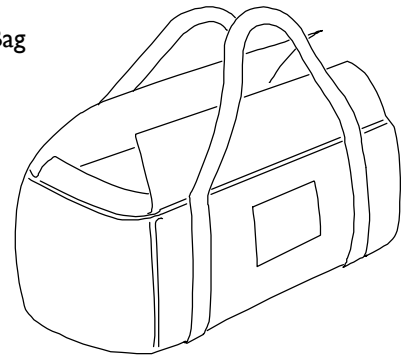
Remote Control (Optional)



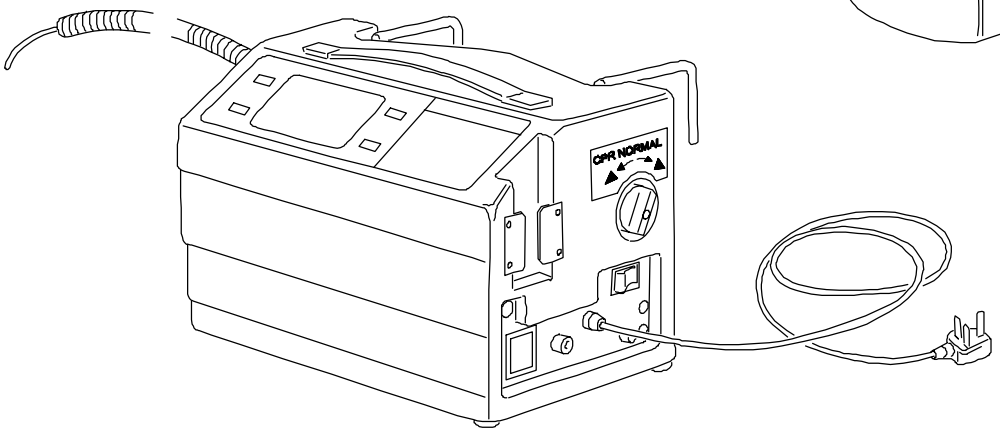
Mattress



Carry Bag

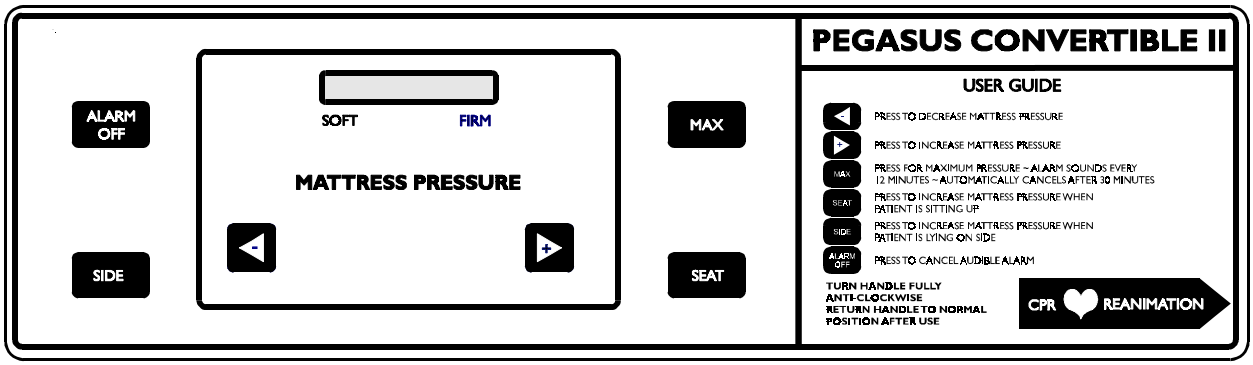


Patient Management Unit (PMU)



SECTION B – PATIENT MANAGEMENT UNIT OPERATION

CONTROL PANEL FUNCTIONS



Press to decrease mattress pressure – each operation reduces the pre-set pressure by one setting shown on the 10-section pressure scale.

Press to increase mattress pressure – each operation increases the pre-set pressure by one setting shown on the 10-section pressure scale.

ALARM OFF

Press to cancel the audible alarm. The red 'normally hidden' light above the button will flash. The alarm will return after approximately 5 minutes if the problem is not rectified.

MAX

Press for maximum pressure.

The green 'normally hidden' light above the button will flash.

All sections of the 10-section pressure scale illuminate.

Alarm sounds (2 beeps, four times) approximately every 10 minutes while at max pressure.

Maximum pressure mode automatically cancels after approximately 30 minutes and system reverts to 'Normal' (the pressure the system was running at prior to selecting max).

SEAT

Press to set pressure when the patient is moved to a sitting position - the pressure is automatically changed to provide optimum support to the semi-recumbent patient.

A second operation of the button returns the system to 'Normal' (the pressure the system was running at prior to selecting 'Seat').

Selection is indicated by a flashing green 'normally hidden' light.

SIDE

Press to set pressure for a patient moved to a side position - the pressure is automatically changed to provide optimum support to the side-lying patient.

A second operation of the button returns the system to 'Normal' (the pressure the system was running at prior to selecting 'Side').

A flashing green 'normally hidden' light indicates selection.

In addition to the indication lights positioned above the 'Alarm Off', 'Max', 'Seat' and 'Side' pushbuttons, the following indicators are normally hidden:

LOW PRESSURE

When the system pressure is low the light flashes continuously and an audible alarm sounds (2 beeps, pulsing).

BATTERY SUPPLY

No longer available.

POWER LOSS

When power is lost (power failure, switched off at the mains or unplugged without switching the power unit OFF) the light illuminates and the audible alarm sounds (2 beeps, pulsing). The alarm will only cancel by switching off the PMU.

CPR

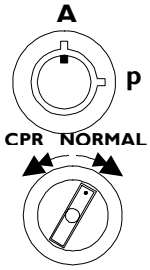
The PMU speeds up to evacuate air from the mattress.

The light flashes red while the mattress is deflating, then changes to a steady light when the mattress is deflated (approx 20 seconds).

RIGHT-HAND SIDE CONTROLS

The right side of the PMU houses the following:

1. Mains switch.
2. Power ON indicating light.
3. Remote control socket.
4. Storage position for the remote control.
5. A/P switch

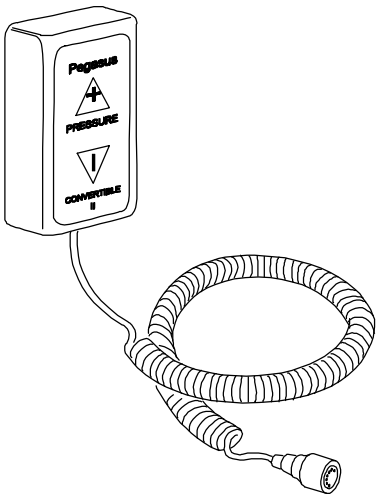


'A' = Adult, 'P' = Paediatric (Key operated)

6. NORMAL/CPR selector switch

REMOTE CONTROL (if supplied)

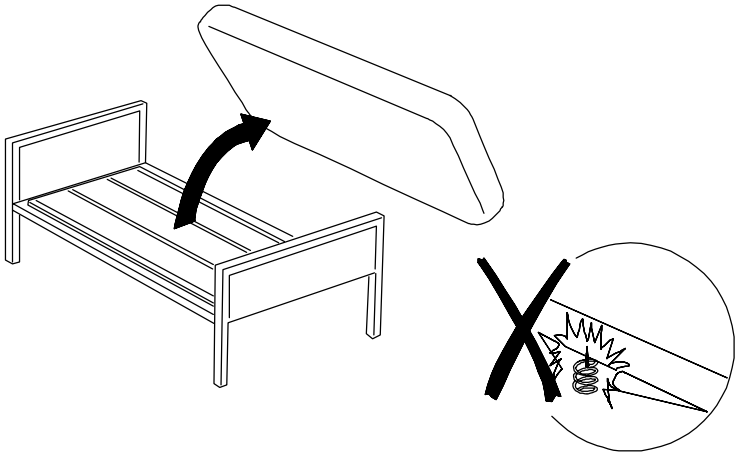
The remote control has the facility to increase and decrease pressure settings. It connects to the PMU unit via a socket on the right-hand side of the PMU.



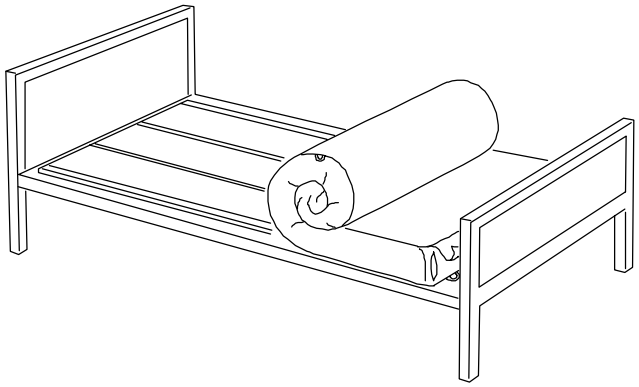
SECTION C – SETTING UP

SETTING UP

1. Remove the bed mattress.



2. Ensure there are no sharp objects to damage the system mattress.

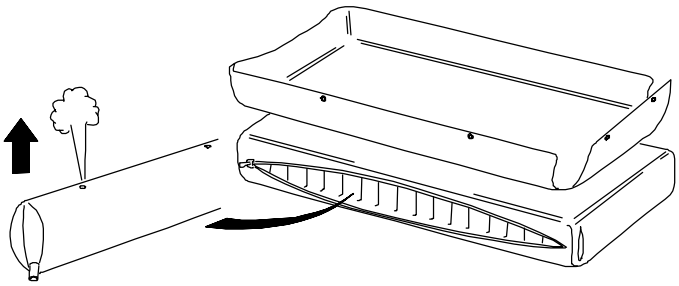


3. Unroll the system mattress onto the bed with the air connector at the foot end and to the left when viewed from the foot end.

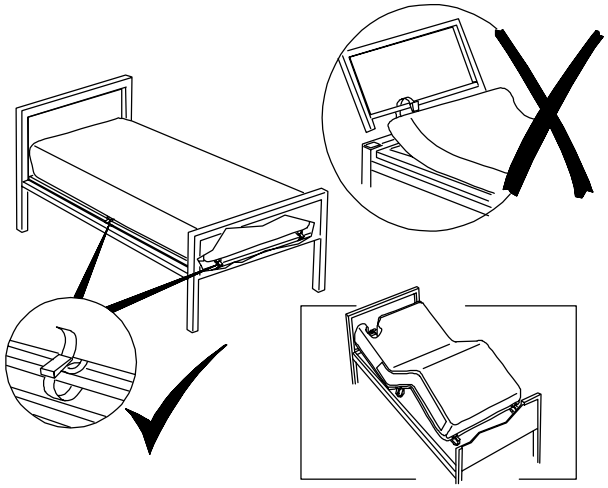
4. Unclip the comforter from the mattress (secured by press-studs).

5. Unzip the cover and check the cells are all connected to the manifolds and positioned in their chambers with the air holes at the top.

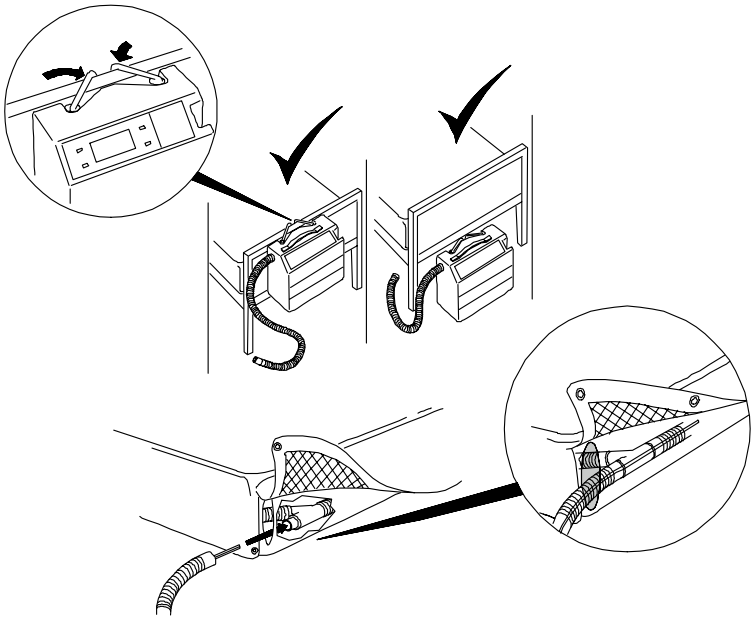
6. On completion return to normal.



7. Fix the mattress securing straps to the moving parts of the bed frame, do not secure to removable head or foot boards.



8. Hook the PMU onto the footboard of the bed, or stand on the floor as required.

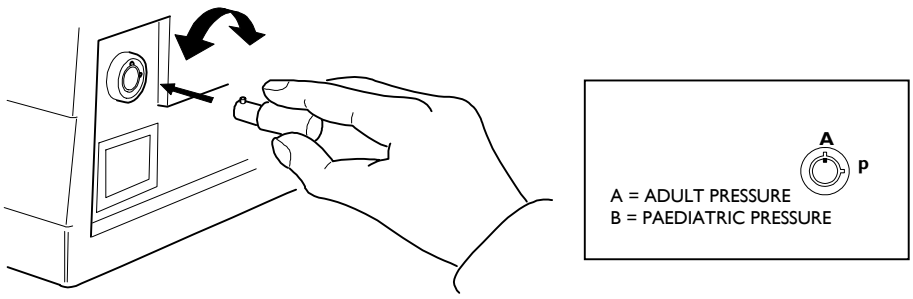


9. Feed the small sensor tube into the mattress air connector, then push the air hose fully onto the air connector as shown above.

10. Check the NORMAL/CPR switch is set to NORMAL.

11. Check correct patient type is selected – 'A' for adult or 'P' for paediatric use. If incorrect, select the required patient type by using the key provided.

NOTE: If 'P' is selected a paediatric mattress (small bed or cot size) must be used.



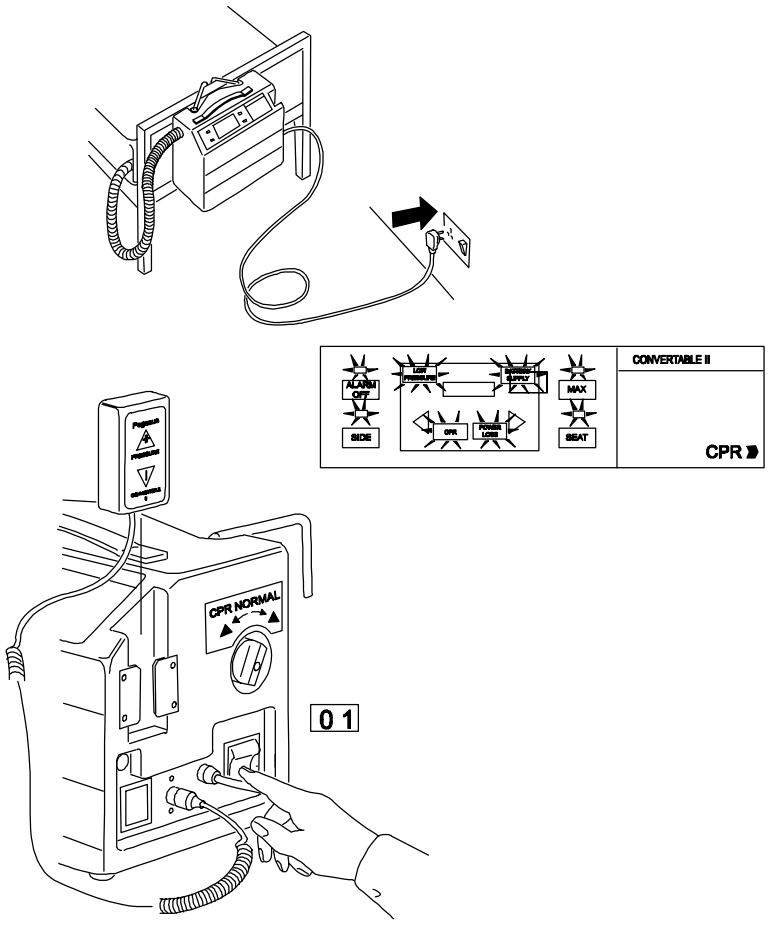
12. Connect the power unit to an appropriate power outlet.

13. Plug in the remote control (if supplied).

14. Switch ON.

15. Check the system carries out a self-test. All lights will flash 3 times, including those that are normally 'hidden' (see Section B - PMU Operation - Control Panel Functions).

NOTE: The system will not carry out a self-test if it is re-started within 2 minutes (approx) of switching off.



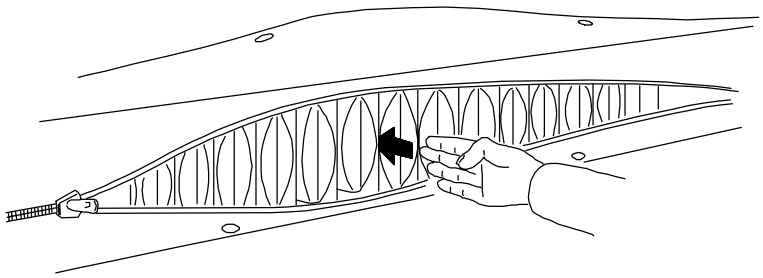
NOTE: The mattress must be adjusted to each individual patient.

16. Set pressure to maximum by pressing the MAX switch. When mattress is inflated, place patient on mattress.

17. **Set mattress pressure – (see below)**

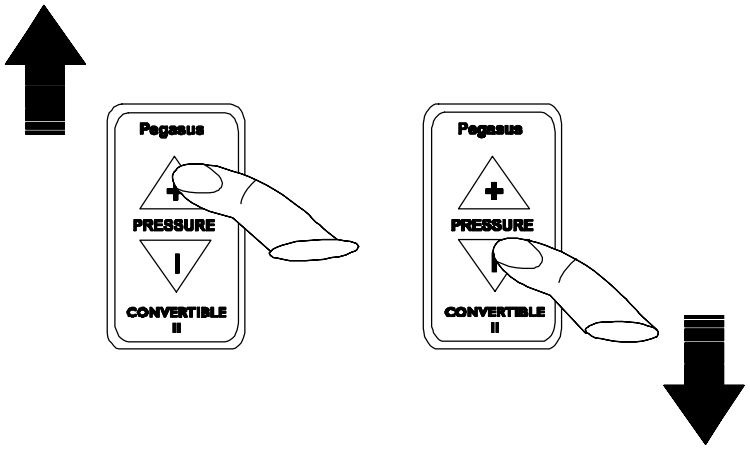
a. Unclip comforter and unzip one side of the cover.

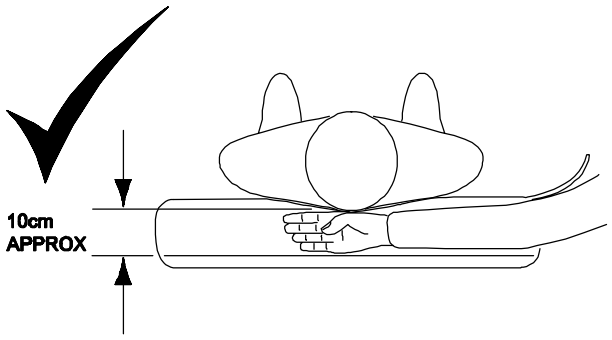
b. Insert hand, on edge into mattress in the region of the patient's sacral area.



c. Using the '-' button on the control panel or remote control, reduce pressure until the lowest part of the patient's body touches the hand.

NOTE: Allow one minute (approx) response time after each press of the button to ensure the system has stabilised.





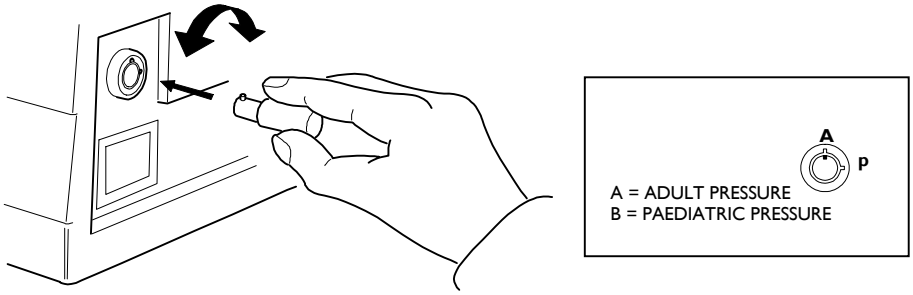
d. Re-do the cover and comforter.

CAUTION: **If the patient's weight changes significantly, eg fluid drainage, oedema, etc the mattress pressure should be checked and reset as necessary.**

SETTING UP THE SYSTEM FOR PAEDIATRIC USE

Setting up the system for paediatric use is the same procedure as for normal setting up with the following differences:

1. Check Correct patient type is selected (select 'P' for paediatric use).



2. A paediatric mattress must be used - the system will not function correctly if a standard mattress is used with 'P' selected, (The paediatric mattress has the same functionality as the adult mattress and is available in two sizes, small bed and cot).

SYSTEM REMOVAL

Removal of the system is the reverse of setting up.

NOTE: To aid removal, before switching off turn the CPR/NORMAL switch to CPR to evacuate air from the mattress quickly.

SECTION D – ALARMS AND FAULT FINDING

ALARMS

The system is equipped with a set of visual and audible alarms which alert the user to the status of the mains supply and any system defects.

For details of alarms, see Section B, Control Panel Functions.

SYMPTOM	ACTION
CPR light steady Constant tone alarm sounding	Check position of CPR switch - turn fully to NORMAL or CPR as required
No front panel display	Check PMU plugged into mains and switched on Check mains plug fuse Check PMU fuses (if fitted)
Low pressure alarm sounds and indicator illuminates	Check airpipe connected to mattress Check mattress cells are all connected correctly Check cells for punctures Check sensor tube correctly inserted

FAULT FINDING

Should the system continue alarming with the above items correct, contact your local supplier.

SECTION E – INFECTION CONTROL/CLEANING

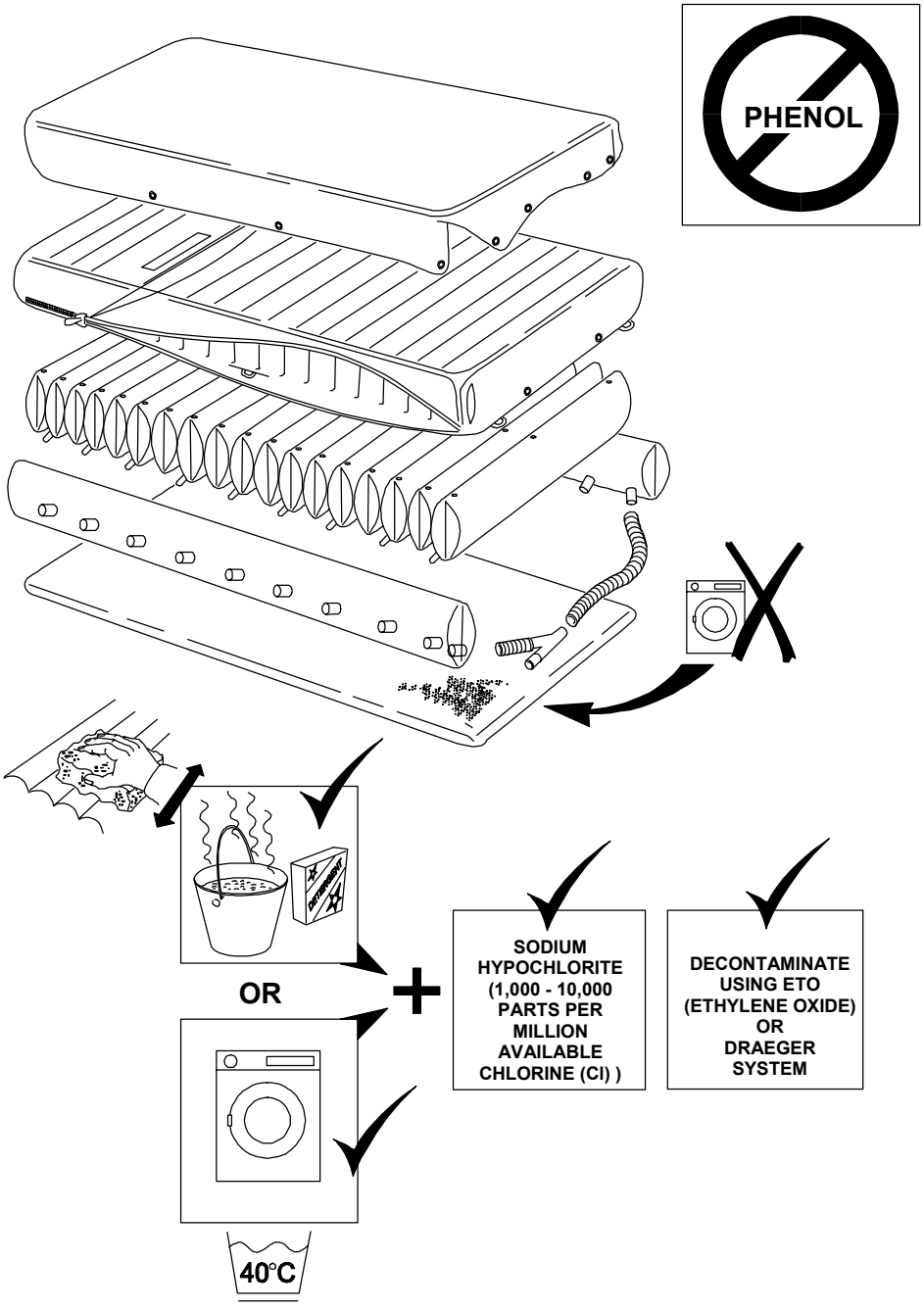
INFECTION CONTROL

Infection Control and routine cleaning must be carried out in accordance with your local Infection Control Policy.

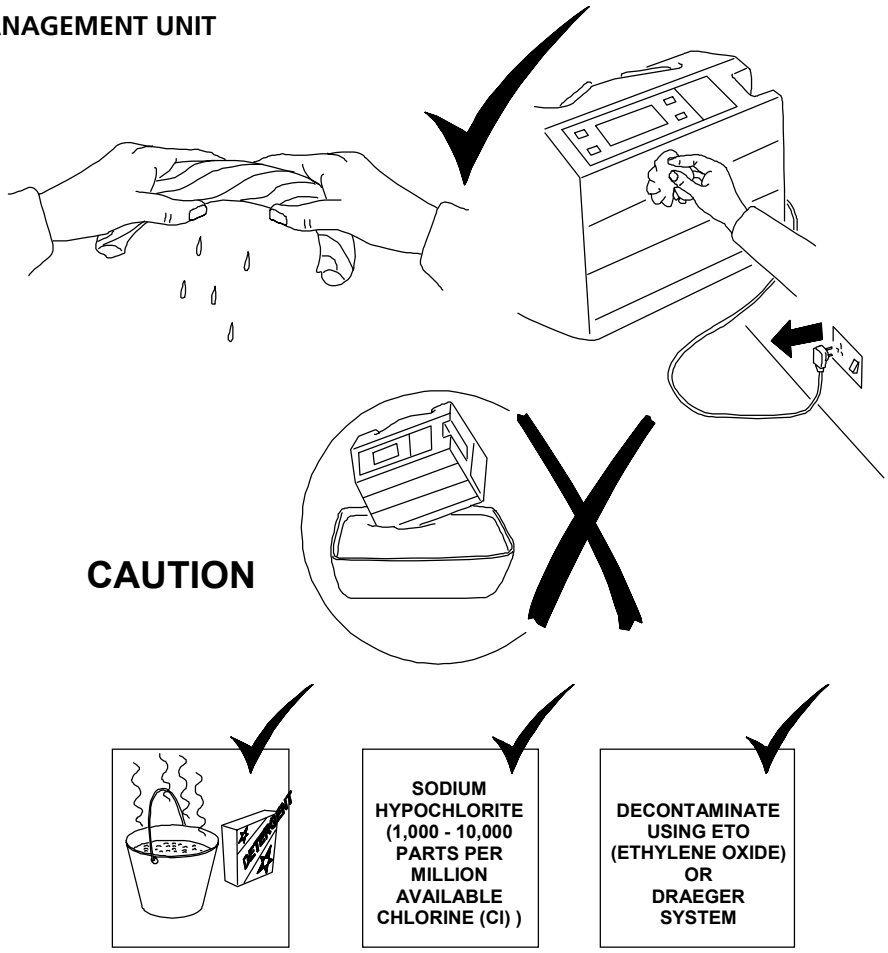
CLEANING GUIDELINES

It is recommended the system is cleaned between users or approximately every 2 weeks if in constant use.

MATTRESS AND COVER



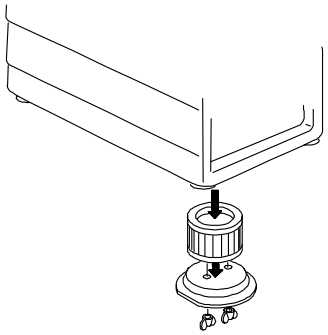
PATIENT MANAGEMENT UNIT



The mattress, comforter and power unit may also be decontaminated by using ETO (Ethylene Oxide) or the Draeger method.

FILTER

1. Remove Filter.
2. Vacuum the outer surface of the filter.
3. Agitate the filter in a solution of Hypochlorite or similar (up to 10000ppm available chlorine).
4. Rinse in clean water.
5. Dry thoroughly before replacing.
6. Replace filter.
7. If a replacement filter is required, it should be ordered using Part Number MSM 10213.



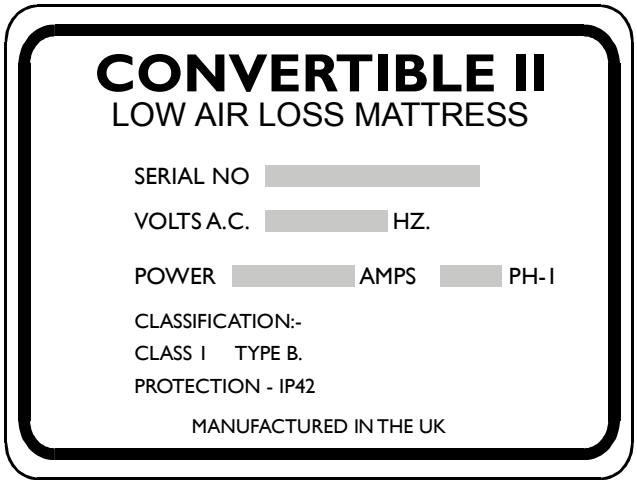
SECTION F – USER SERVICING AND SERVICE

GENERAL

The **CONVERTIBLE II** system has been designed for ease of use and contains no serviceable items with the exception of the power unit filter and mains fuses (when fitted).

If you have any queries about the operation of the system contact your supplier.

To help identify your system when telephoning, please make a note of the serial number which you will find on the label fixed to the back of the power unit.



SERVICEABLE ITEMS - PART NOS

Items	**Part No**
Filter	MSM 10213

SECTION G – TECHNICAL DATA

General				
Mode of Operation	Continuous			
Safe Working Load	Maximum: 180kg, but not to exceed that of the supporting bed frame			
Nominal Dimensions	Mattress			
		Adult	Paediatric	Infants Cot
	Length:	2010mm	1680mm	1320mm
	Width:	850mm	850mm	680mm
	Height:	200mm	200mm	110mm
	Weight:	8.2kg	6.1kg	4kg
	PMU			
	Length:	450mm		
	Width:	240mm		
	Height:	300mm		
	Weight:	11kg		
Electrical Safety				
Supply Voltage	230V 50Hz			
Power Rating	Maximum: 400VA Normal: 100VA			
Fuse Rating	Mains Plug: 5 Amp			
Standards	Conforms to BSEN 60601-1			
Classification	Class 1, Type B			
Symbols				
	Type B			
	Alternating Current			
Environment (Usage and Storage)	Air Humidity: 10% to 85%			
	Ambient Temperature: -10°C to +60°C			
EMC	This equipment complies with EMC requirements. If effects are noticed the affected equipments should be moved apart.			

CE	This product carries the CE mark in accordance with EC Directive on Medical Devices (93/42/EEC).

Pegasus Limited cannot be held responsible for any damage caused to our products by foreign objects – needles, sharps, eating utensils, etc other than due to normal wear and tear as defined in the product warranty agreement. Nor for any injury or incident which relates to the use of cot sides, profiling or any other mechanical or electrical device used in conjunction with this product unless supplied and/or manufactured by Pegasus Limited.

NOTES

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PEGASUS

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