



**Dual Paediatric**  
User Manual

Thank you for purchasing this Shelden Healthcare pressure relieving mattress system.

**PLEASE READ THIS USER MANUAL CAREFULLY BEFORE SETTING UP AND USING THE DEVICE.**

Pay special attention to the warnings and other safety information. Use genuine Shelden Healthcare components to maintain the products optimal performance. If you do not fully understand all the instructions, safety precautions, and warnings, do not use this device. In case you have questions, please contact Shelden Healthcare on **01788 833 989**.

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1.0 Indications

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Attention! Please read enclosed document thoroughly
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Double insulated (Class II)
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Declaration of Conformity to Medical Device Directive
- 

International Electronics Approval
- 

Do not immerse power unit in liquid or spray liquids directly on power unit
- 

Type B Equipment

Indications

This air alternating mattress system is designed for patients who are at high risk of pressure of ulcers or require treatment for existing pressure ulcers. This device is intended to treat and prevent pressure ulcers by facilitating blood circulation, reactive hyperaemia and decreasing interface pressures. Always consult a physician or health professional before using this mattress system. This pressure relieving mattress system is suitable for patients assessed to be high risk.

Contraindications

Certain patient conditions are not suitable for using this type of device. Contraindications such as unstable fractures of vertebrae and conditions of the vertebrae. Always consult a physician or health

professional before using this device.

The use of this system does not replace the regular repositioning, monitoring, and nursing of the patient.

2.0 Safety Precautions

(1) To ensure proper operation, please (1) To ensure proper operation, please inspect and verify all parts are setup properly and anchor securely. Do not place anything on top of the power unit. Make sure power cord is underneath bed frame and free from hazard. (2) It is recommended to limit bed linens to a single layer in order to allow the moisture escape efficiently through the cover. Only “breathable” incontinent pads are recommended for use with this mattress system.

(3) Avoid using this device near open flames, lighters, or cigarettes. Flammability hazard exists.

This device draws air from the surrounding.

Thus, cigarette smoking may damage internal component.

(4) This system should decontaminated thoroughly between patients to avoid cross contamination.

(5) Please make sure that the mattress is set to the correct patient weight and does not exceed the SWL of the bed frame.

3.0 Warnings

(1) Use this mattress with the correct side rails to ensure the gap between the top of the mattress and the top of the bed rails meets the EN60601-2-52. Failure to do so could result in serious patient injury.

(2) DO NOT disassemble the power unit if you are not a qualified technician. Please contact your local distributor for all service.

(3) This product is NOT AP/APG protected.

(4) It is recommended that the patient be repositioned periodically while using this mattress.

(5) Incorrect battery replacement may result in risk of explosion. Replace only with same or equivalent battery type recommended by the manufacturer.

(6) If the equipment needs maintenance, contact Shelden Healthcare. as soon as possible. For equipment that is no longer functional, make sure to follow national, state, and/or facility requirements for disposal of the unit.

(7) The use of this system does not replace the regular repositioning, monitoring, and nursing of the patient.

(8) Operating, transportation, and storage conditions:

Temperature: 5°C - 45°C

Humidity: 15% - 60%

CAUTION: ENSURE THAT THERE ARE NO PROTRUDING OBJECTS, SHARP POINTS OR BED SPRINGS UNDER THE MATTRESS AS THESE COULD PUNCTURE THE AIR CELLS.

4.0 System Package

Power Unit Package

- \* Power unit x 1
- \* Power cord x 1
- \* Operation manual x 1

Mattress Package

- \* Mattress unit with cover x 1

5.0 Features

Control Panel Features

See Figure 5a on page 5.

power LED

The green power LED will light when the main power rocker switch on the right side panel is turned on

alarm LED

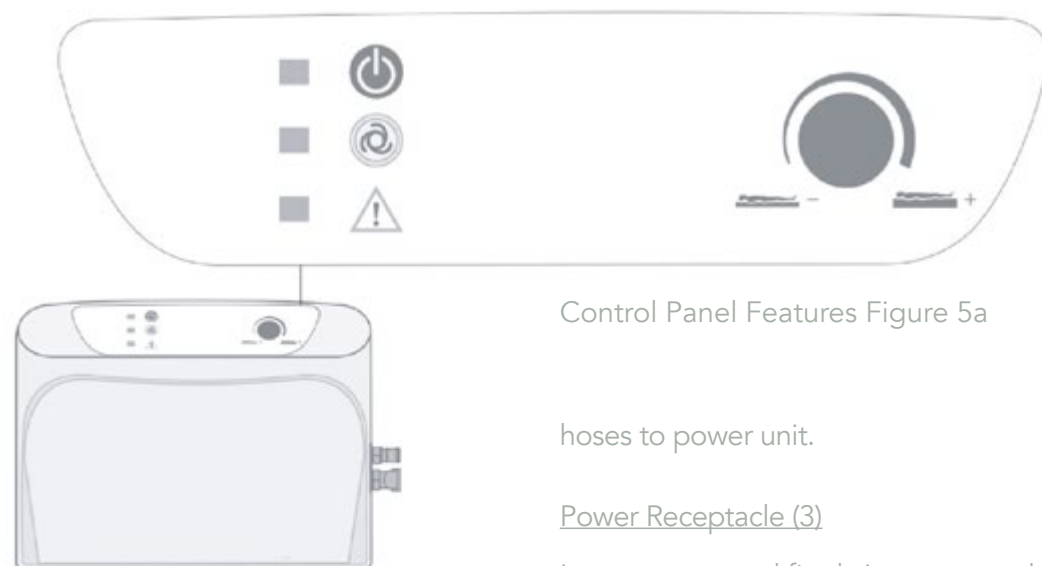
This low pressure alert notifies medical staff the mattress has insufficient pressure. Audible alarm will sound for 15 seconds at each cycle and the indicator will stay on until the problem has been solved.

pressure monitoring LED

Power unit features an integrated pressure sensor which can monitor the mattress’ internal pressure 24 hour to achieve optimal internal pressure and to ensure maximum pressure relief. LED indicates the system is monitoring the mattress’ internal pressure while the compressor is inflating.

Comfort Knob

Simply turn the knob from min. to max. to adjust the mattress internal pressure. The scale is only an approximation. Please adjust the pressure setting if the mattress is too soft or firm to suit each patient’s comfort. Caregivers should always perform a hand check by placing their hands underneath patient’s pelvis area to check if there is sufficient air support to ensure the patient is not bottoming out.

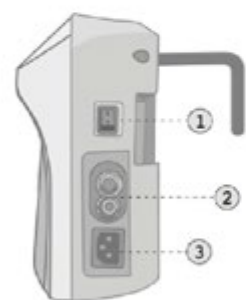


Control Panel Features Figure 5a

hoses to power unit.

#### Power Receptacle (3)

Insert power cord firmly into receptacle.



Right Side Features Figure 5b

#### **Rear Panel Features**

See Figure 5c

#### Convenient Handle (1)

It provides additional gripping surface for user to carry the power unit.

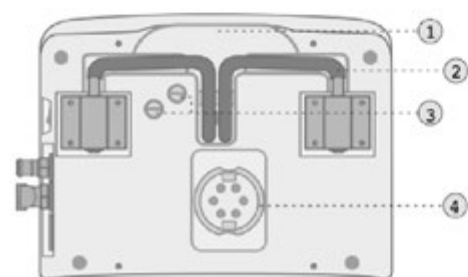
#### Hanging Hooks (2)

Hanging hooks are designed to hang the power unit on almost any foot board.

#### Fuse (3)

Fuse holder can be opened for maintenance. Air Filter and Filter Cap (4)

Shelden Healthcare recommends that the filter to be clean or replace once a month to ensure optimal performance of the power unit.



Rear Panel Features Figure 5c

#### **Right Side Panel Features**

See Figure 5b

#### Rocker Switch (1)

Power unit's main power switch.

#### Couplers (2)

Quick release couplers are used to secure mattress air

## 6.0 Mattress and Power Unit

### Installations

(1) Place Shelden Healthcare mattress on top of the original mattress with the logo at foot end. Secure the mattress by using elastic straps for large paediatric beds if needed. Please verify all bed functions are working properly without interference before proceeding to the next step.

(2) Secure the power unit onto the foot board using hanging hooks.

(3) Firmly connect the mattress' air hose couplings to the quick release couplers on the power unit's air outlet.

(4) Plug the power unit into a wall outlet and turn on the main power rocker switch on the right side panel to inflate the mattress system.

(5) Turn the comfort knob on the power unit's control panel to maximum setting to shorten the initial inflation time if needed.

(6) Wait for approx. 15 minutes or less for the mattress to inflate fully.

## 7.0 Program Settings

(1) Center the patient on the mattress. Adjust the mattress' internal pressure according to the patient weight by using the weight (kg) button on the control panel of the power unit. If the patient feels the mattress is too soft or firm, increases or decreases the mattress' internal pressure one increment at a time and wait for the system to stabilize before making another change until a

comfortable state is achieved.

(2) Caregivers should always perform a hand check by placing their hands underneath patient's pelvis area to check if there is sufficient air support to ensure the patient is not bottoming out.

(3) **IMPORTANT:** TUCKING THE SHEET IN TIGHTLY REDUCES THE EFFECTIVENESS OF THE SYSTEM.

## 8.0 Patient Transfer and Transport

### Transfer

It is recommended to have the mattress system in MAX INFLATE mode during transfer. Make sure the bed is secured before proceeding.

### Transport

If a transport occasion comes up, detach mattress' air hose couplings from the power unit's CPC quick release couplers and connect the two air hose couplings together. Shelden Healthcare Theraflo system has a safety foam base underneath the air cells to support the patient for a short period of time. To resume normal operation, please follow 7.0 Program Setting.

9.0 Cleaning Instruction

Air mattress and power unit must be cleaned thoroughly between patients to avoid cross contamination. The following is a suggested guideline, but local infection control policies should be followed as well.

Mattress cleaning with hand hot water with a PH neutral detergent. Decontamination by wiping with a Sodium Hypochlorite solution of 1000ppm in line with HSG9518 and BHTA guidelines. Please ensure air mattress and cover are completely dry before patient use.

Machine wash warm water at maximum 71°C. Dry mattress cover on a cool tumble setting. Do not iron.

WARNING! Always unplug the power unit before cleaning. Routine cleaning of power unit can be done by wiping down with damp cloth using disinfectant and water or mild neutral detergent. Never spray liquids directly on the unit itself.

11.0 Routine Maintenance

Remove air filter from the rear panel of the power unit by opening up the filter cap to clean or replace the air filter. Inspect the filter for dirt or dust and clean it with mild soap and water. Reinsert the dried air filter after cleaning and ensure the cap is secure. Replace with genuine air filter once a year is recommended and compressor every two year is strongly suggested to prolong system lifetime.

Only disinfected and dry systems are to be stored. Disconnect the air hoses from the power unit. Roll up the mattress starting from head end and working down toward the foot end. Use the straps to fix it.

12.0 Troubleshooting

Problem	Inspection Procedure	Possible Solutions
1. Power unit does not function.	Check if power cord is firmly plugged into wall outlet.	Secure power cord into wall outlet.
	Check if power switch is in ON position.	Turn power switch to ON position.
	Check if power surge shuts down power unit.	A power surge may overload the circuitry temporarily. Turn the unit off and check the fuse for damage. Turn the unit ON again with normal procedure.
	Make sure there is no power failure.	
	Power unit does not respond to possible solutions.	Please contact Shelden Healthcare on 01788 833 989.
2. Low pressure alert does not go out in 30 sec. after systems start.	Possible control failure.	Please contact Shelden Healthcare on 01788 833 989.
3. alert LED is lit during operation.	Check if there is leakage in air tubes* or air cells.	Please contact Shelden Healthcare on 01788 833 989.
4. Power unit is working, but mattress replacement is not inflating  and/or  Bottoming out is occurring and/or  Patient leaves a deep indentation at the contact area which does not return back to its original shape.	Verify that CPR latch is properly inserted.	Insert CPR latch securely.
	Check if mattress’ air hose couplers are properly connected to power unit’s quick release couplers.	Secure air hose couplers firmly into place.
	Verify that patient weight setting is correct.	Increase or decrease weight setting until appropriate pressure is reached.
	Inspect air filter for dust or dirt.	Clean or replace air filter.
	Lift mattress coverlet up to check if air cells are connected correctly.	Make sure all air cells are properly linked to air supply.
	Lift mattress coverlet up to check if air tubes are kinked or obstructed.	Check and adjust air tubes’ positions.
5. Alternating or static setting is not available.	Check if air cells are cut or cracked.	Please contact Shelden Healthcare on 01788 833 989.
	Possible control failure.	Please contact Shelden Healthcare on 01788 833 989.
6. Patient is not getting pressure relief due to system failure (reddening of skin).		Contact your physician and/or nursing service immediately.

\*Air tube is referring to the mean of directing air flow from the power unit to each individual air cell.

12.0 Returns for Service

This device is not self-serviceable. Service and repair must be performed by an authorized technician or representative. All returned device must be cleaned and disinfected prior to shipping. Unsanitary or soiled systems will be returned without servicing.

13.0 Warranty

Shelden Healthcare warrants the product to be free from defects from the date of purchase. Please inspect all accessories when you purchase our product. If there is any damage or missing accessories when you receive the product, please ask for a replacement from your local distributor within three days of purchase.

The warranty periods for Shelden Healthcare products are according to the regulations in your country, the minimum period is 1 year from date of purchase for the power unit and 1 year for the mattress and the coverlet. The warranty coverage of any Shelden Healthcare product is contingent up on its purchase from an authorized dealer. Warranty for any product in the Shelden Healthcare product line will be honored by the official distributor in your country.

Warranty coverage will not be extended to any product on which the production lot number has been removed or defaced, on which repair has been attempted by any person or agency not authorized by Shelden Healthcare or if in the sole opinion of Shelden Healthcare that the system shows evidence of tampering, abnormal or unreasonable abuse, negligence, accident or operation without regard for the restrictions specified in the instructions which accompany

the system. This warranty does not cover normal maintenance such as cleaning, adjustment, lubrication, and updating of equipment or parts. If the damage is result from improper operation, a reasonable service fee and part cost will be charged.

The warranty stated above is the only warranty made and is in lieu of all other warranties whether expressed or implied, including any warranty of merchantability or fitness for a particular reason. Shelden Healthcare will not be liable for consequential or incidental damages or any kind.

14.0 Product Specifications

Individual Model Number

Power Unit: SR368

Mattress: MSR213

Small: SR215

Medium: SR216

Large: SR217

Coverlet: SR604

Electrical Input

AC100 – 120V/50 & 60Hz or AC220 – 240V/50Hz

Agency Approval

EN60601-1/EN60601-1-2/ EN61000-3-2/EN61000-3-3/ UL2601-1

Dimensions

Power Unit: 26 x 22 x 8cm

Mattress Set (inflated):

Small (MSR215): SR215 65 x 36 x 0.5cm

Medium (MSR216): SR216 75 x 49 x 4cm

Large (MSR216): SR217 140 x 70 x 6cm

Weight

Power Unit: approx. 2.5kg

Mattress Set:

Small: approx. 0.5kg

Medium: approx. 1.5kg

Large: approx. 3.5kg

Power Consumption

Max. 10W

Material

Power Unit: ABS fire resistant UL Mattress Set: 100% nylon with TPU lamination

Coverlet: Polyester with PU lamination

Operating, Transportation & Storage Temperature/ Humidity

5oC - 45oC / 15% - 60%

Maximum Weight Capacity

Small: 3.5kg

Medium: 20kg

Large: 40kg

The power unit is not AP/APG protected.

Shelden Healthcare reserves the right to change prices or design parameters and specifications without incurring any liability in connection with such modifications.

## Shelden Healthcare Ltd

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