

Operation Manual

H&R Healthcare

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Thank you for purchasing Relief Chair Alternating Pressure Geri Chair Cushion. PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USE AND OBSERVE THE SAFETY INSTRUCTIONS AND THE REQUIREMENTS FOR THE OPERATION AND MAINTENANCE OF THE DEVICE.

Use genuine components are essential for 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 H&R Healthcare at 800-801-5533.

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1.0 Indications



Attention! Please read enclosed document thoroughly



Authorized Representative



Declaration of Conformity to Medical Device Directive



Type BF Equipment



Double Insulated (Class II)



Dissposal of Electrical & Electrical Equipment (WEEE)



Manufacturer



Date of Manufacture



Catalog Number

IP22

Protected against solid foreign objects up to 12.5mm diameter (finger) and protected against vertically dripping water.



Machine Wash Warm (Max. 71°C)



Tumble Dry Medium-Gentle



DO NOT Iron



DO NOT Dry Clean



DO NOT Bleach



SGS Q Certification Mark

Indications

The alternating pressure geri chair cushion is designed for patients who are at high risk for pressure ulcer to be placed in a variety of mobile devices and potential patients who wish to to reduce the likelihood of pressure ulcer. The device is intended to prevent pressure ulcers by facilitating blood circulation and decreasing pressure of each tissue's of each tissue's contact area. If there's any question, please always consult a physician or health professional before using this device.

Contraindications

Certain patient conditions (e.g. unstable cervical fracture, fracture of unstable vertebrae and illness of unstable vertebrae) are contraindicated for use with this device. If there's any question, please always consult a physician or health professional before using this device.

Users

The device should only be used by people who have been trained in operation and intended use of the device.

The trained users on the operation and the dedicated use of the device must be carried out by the qualified operator before using the device.

Users are fully responsible for the safe and correct use of the device. A review of the functions should be carried out and the proper conditions of the device should be checked and confirmed by the user before each use or transfer for use.

2.0 Safety Precautions

- [1] To ensure the safety operation of the device, please inspect and verify all parts are installed and secured properly. DO NOT place anything on top of the power unit. Make sure the power cord and power adapter are underneath chair frame to prevent possible hazards.
- [2] DO NOT use this device near the open flames, lighters, or cigarettes due to the possible flammability hazard. Fail to do so could result in serious patient injury or device damage.
- [3] DO NOT use this device in damp rooms to avoid of moisture on plug and switch. Never plunge the power unit into water or liquids, not even when it is switch off.
- [4] The degraded or loosen components may affect the performance of device. If the device doesn't function well, please contact your authorized local distributor for assistance.
- [5] The touching live parts can result in a death or serious injury by electric shock. Check if the plug and the power cord of power unit are damaged before connecting. Do NOT use the damaged components for connection.
- [6] If the device operates at ambient temperatures outside the state temperature range (see technical data), the performance may be affected and the device or the electronics and battery may get damaged.
- [7] This device should be disinfected thoroughly between patients to avoid of cross contamination.
- [8] Be sure to verify the patient weight does not exceed system weight capacity. The maximum weight capacity of this device is 113 kg/250 lb.

- [9] Charging the power unit at least 8 hours before the first use.
- [10] The power unit meets the requirements of IEC 60601-1 / EN 60601-1-2 / EN 60601-1-11 Electromagnetic Compatibility Medical Electrical Devices.

3.0 Warnings

- [1] Use this cushion on proper chair frame and ensure to secure the cushion with the straps provided. Assist the patient sitting on the center of cushion. Fail to do so could results in serious patient injury or device damage.
- [2] Do NOT disassemble the power unit if you are not a qualified technician. Please contact your authorized local distributor for service.
- [3] This device is NOT AP/ APG protected.
- [4] Re-position the patient once awhile is still necessary when using this device.
- [5] Follow the national requirement to dispose power unit / accessories / waste products / residues etc.
- [6] The AC power adapter plug is served to disconnect the device, not to position the equipment to make it difficult to operate the disconnection device.
- [7] Any modification of this device is NOT allowed.
- [8] The power unit should be turned off when stopping operation is required.
- [9] Keep the device away from the children, pet and pests as they can damage the device and impact the performance. Keep the device free from dust and lint.
- [10] DO NOT use the device in Hyperbaric Chamber or in the presence of flammable gases.

CAUTION:

ENSURE THAT THERE ARE NO PROTRUDING OBJECTS, SHARP POINTS OR CHAIR SPRINGS UNDER THE CUSHION AS THESE COULD PUNCTURE THE AIR CELLS AND AFFECT THE PERFORMANCE.

4.0 System Package

Power Unit Package

- * Power unit x 1
- * Power Adapter x 1
- * Operation Manual x 1

Geri Chair Cushion Package

* Geri Chair Cushion with Coverlet x 1

Accessory

* Carry Bag

5.0 Features

Control Panel Features

Figure 5a on page 6

Power/ Mute/ Unlock



- [1] Press this button to turn on the power unit and light up the green LED.
- [2] When audible indicator is sounding, pressed this button to mute the audible indicator.
- [3] When the panel is automatically lock, pressed this button to unlock the button.

Pressure Setting



Simply press this button to adjust the patient sensation from 1 to 5 according to each individual need. The scale is only an approximation. Please adjust the comfort level when patient feels the cushion is too soft or too firm. 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.

Static



Press this button then the green LED lights up and the Cycle Time displays 0 means the device is in Static Mode.

Pressure re-distribution function provides optimal internal pressure for each different

pressure setting. Simply press return the device to default Alternating Mode.

Pressure Monitoring Indicator

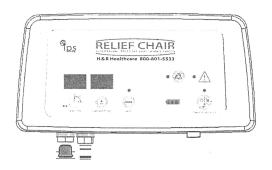
Power unit features an integrated pressure sensor which can monitor cushion's internal pressure 24 hours to achieve optimal internal pressure and to ensure maximum pressure relief. The yellow LED indicates the device is monitoring the cushion's internal pressure while the compressor is inflating.

Battery Indicator

The green LED bar indicates the battery level or charging status. If the power unit is low on power, the orange LED will light up to indicate that the power unit needs to charge for 4 hours to battery full.



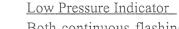
Control Panel Features (Figure 5a)



The battery failure will be triggered when orange LED is flashing with audible indicator. The battery is not user replaceable, please contact your authorized local distributor for assistance.



Press the button to set up the alternating cycle time as 10, or 15, or 20 minutes to meet a variety of patient's requirements.

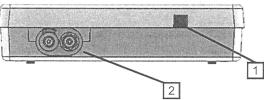




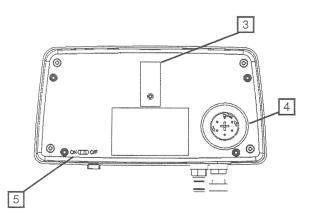
Both continuous flashing of orange LED and audible indicator will be triggered to notify medical staff when the cushion has insufficient internal pressure. The power unit will automatically turn off if the low pressure indicator stays for 15 minutes.



The power unit locks automatically when the function buttons are not touched for 3 minutes or so. All function buttons are locked out. Simply press seconds to unlock the power unit and panel.



Side Panel Features (Figure 5b)



Rear side Panel Features (Figure 5c)

Power Receptacle (1)

Insert power adaptor firmly into receptacle.

Couplers (2)

Ouick release couplers are used to secure cushion air hoses to power unit.

Rear Panel Features

Figure 5c on page 6

Hanger Install location (3)

The user can install optional hangers to hook the power unit on almost any foot board or IV pole.

Air Filter and Filter Cap (4)

Recommend that the filter should be cleaned or replaced once a month to ensure optimal performance of the device.

Rocker Switch (5)

Main power switch of the power unit.

6.0 Cushion and Device Installations

- [1] Remove existing article from geriatric chair, recliner, or wheelchair.
- [2] Place the cushion on the chair. Secure the cushion at each side by using anchor strap. Please verify all chair functions are working properly without interference before proceeding to the next step.

- [3] Secure the power unit to the rear of the chair by using dedicated carry bag.
- [4] Firmly connect the air hose couplings to the quick release couplers on the power unit's air outlet.
- [5] Push the rocker switch to "on" position at the rear side panel.
- [6] Press to turn on the power unit.

CAUTION:

Please ensure to charge the power unit at least 8 hours before the first use.

7.0 Program Settings

- [1] Assist the patient sitting on the center of cushion. Adjust the cushion's internal pressure according to the patient sensation by Pressure Setting button. If the patient feels the cushion is too soft or firm, increases or decreases the cushion's internal pressure one increment at a time and wait for the device to stabilize the internal pressure 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
- [3] IMPORTANT: TUCKING THE SHEET IN TIGHTLY REDUCES THE EFFECTIVENESS OF THE DEVICE.

8.0 Cleaning Instruction

Cushion, coverlet and power unit must be cleaned thoroughly between patients to avoid of cross contamination, potential allergy, and virus infection. The following is a suggested guideline, but local infection control policies should be followed as well.

- [1] Regular cleaning can be performed at chair side with disinfectant and water followed by drying with a clean dry cloth.
- [2] Use only mild detergents and water to clean the coverlet and the cushion. Any appropriate NON-PHENOLIC cleaning agent may be used for heavy soiling with urine, blood or other body fluids. Please ensure cushion and coverlet are completely dry before the patient sitting on the surface again.
- [3] The recommended washing temperature is at 71°C. If the washing temperature is at 95°C, the fabric shrinkage rate is 1% higher and the color might run insignificantly.
- [4] DO NOT use electric or tumble dryers.
- [5] 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 power unit itself.

9.0 Routine Maintenance

Open the filter cap from the rear panel of the power unit to clean or replace the air filter. It is recommended to inspect the filter for dirt or dust and clean it with mild soap and water once a month. Reinsert the dried air filter after cleaning and ensure the cap is secured.

Replace with genuine air filter once a year is recommended to prolong device lifetime. Only disinfected and dry devices are to be stored. Be sure to disconnect the air hoses from the power unit.

The repair of the device or the parts replacement may only be carried out by H&R Healthcare.

In case of specific issues which are not covered enough in details in these instructions for use, please contact H&R Healthcare at 800-801-5533 for assistance.



10.0 Troubleshooting

D 1.1	T D 1	Describ le Colutions	
Problem	Inspection Procedure	Possible Solutions	
	Check if it is "Low Battery"	Connect the adapter to the power outlet	
		to charge the power unit.	
1. Power unit	Check if the rocker switch is in ON	Turn rocker switch to ON position.	
does not	position.	1	
function.	Check if both of orange LED is	Please contact your authorized local	
	blinking and audible indicator sounds	distributor for assistance.	
	simultaneously.		
2. Low pressure	Check if there is leakage in air tubes or	Please contact your authorized local	
LED is flashing	air cells.	distributor for assistance.	
during operation.			
	Check if cushion's air hose couplings	Secure air hose couplings firmly into	
	are properly connected to power unit's	place.	
	quick release couplers.		
		Increase or decrease weight setting	
3. Power Unit		until appropriate pressure is reached.	
is working, but	Inspect air filter for dust.	Clean or replace air filter.	
cushion is not	Lift cushion coverlet up to check if air		
inflating.	cells are connected correctly.	linked to air supply	
	Lift cushion coverlet up to check if air	Check and adjust air tubes positions.	
	tubes are kinked or obstructed.		
	Check if air cells are cut or cracked.	Replace with genuine spare parts or	
	Check if the constant out of ordered.	contact your local distributor.	
		Simply press this Multi-Function	
4. Alternating and	Check if the panel lock	Button for 3 seconds to unlock the	
static setting is		panel.	
not available.	Possible control failure	Please contact your authorized local	
	1 OSSIDIC CONTO TATIGLE	distributor for assistance.	
5. Patient is not			
getting pressure			
relief due to		Contact your physician and/ or nursing	
system failure		service immediately.	
(reddening of			
skin)			
If power unit doe	es not respond to the possible solution	, please contact H&R Healthcare at	
800-801-5533 for	accietance		

800-801-5533 for assistance.

11.0 Returns for Service

This device is not self-serviceable. Service and repair must be performed by H&R Healthcare authorized technician or representative.

All returned devices must be cleaned and disinfected prior to shipping. Unsanitary or soiled systems will be returned without servicing.

If there's any question, please contact H&R Healthcare at 800-801-5533.

12.0 Warranty

H&R Healthcare warrants the product against manufactorer defects for one year of power unit and 6 months of cushion from the date of placement.

Please inspect all the products upon purchase.

If there is any damage or missing parts, please notify H&R Healthcare within three days of purchase.

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 H&R Healthcare or, if in the sole opinion of H&R Healthcare the 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 routine maintenance such as cleaning, adjustment, lubrications, and updating of equipment or parts. If the damage is result from improper operation or not covered under, this warranty, the the reasonable servive fee and parts 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.

H&R Healthcare will not be liable for consequential or incidental damages or any kind.

13.0 Environmental protection

The cushion must be decontaminated before disposal.

Disposal of old electrical and electronic equipment -This symbol on the product or on its packaging indicates that this product should not be treated as household waste. Instead, this product should be taken to the appropriate place of disposal for the recycling of electrical waste and electronic equipment.

OPERATION MANUAL (10)

14.0 Technical Data

Air flow rate of power unit	Open flow 2.5 liters/min		
Power Input:	AC 100-240V - 50/60Hz (for Adapter)		
Power Output	DC 9.1V 3.33A or DC 9V 3A (for Adapter)		
Power Adaptor	GlobalTek, Inc. GTM91120-3010.5-1.4-FW		
Fower Adaptor	SINPRO HPU32A-104		
Power Consumption	Max: 27W (with charger)		
Fower Consumption	Max.9W (without charger)		
Operation mode	Geri Chair Mode		
	Lithium-ion Capacity: 4400mAh		
	Charging Time: 4hrs		
Rechargeable battery	Using Time: approx.12 hours		
	Typical operation time (charge & discharge cycle): 300		
	times		
Dimensions (WxHxD)	9.6 x 6.1 x 2.4 inch / 24.5 x 15.5 x 6.1 cm		
Weight (basic unit)	2.03lb / 0.92kg		
	Cushion dimension: 70.9 x 19.7 x 5.5 in / 180 x 50 x 14		
	cm		
Geri Chair Cushion Set:	26 air cells, 70D nylon with TPU lamination.		
	Coverlet: Two way stretch - 40% polyurethane, 60%		
	polyester.		
	Against ingress of solid foreign objects		
IP22	12.5 mm diameter.		
	Against direct sprays of water up to 15° from the vertical		
Protection class according to IEC60601-1	Class II		
	Temperature range: 5°C(41°F) to 40°C(104°F)		
Operation Conditions	Relative Humidity Range: 15%~60% noncondensing.		
	Atmosphere range: 700hPa-1060hPa		
Transport and storage conditions	Temperature Range: -25°C (-13°F) to 70°C(158°F)		
Transport and storage conditions	Relative Humidity Range: 0%~93% noncondensing		

15.0 Manufacturer's Manual and Declaration

Manufacturer's Manual and Declaration - Electromagnetic Radiation

Radiation Test	Conform ity	Electrom agnetic Environm ent
RF emissions	Group 1	SR321 uses RF energy only for its internal
CISPR 11		function. Therefore, its RF emissions are very
		low and are not likely to cause any interference
		in nearby electronic equipment.
RF emissions	Class B	SR321 is suitable for use in all establishments,
CISPR 11		including domestic establishments and those
Harmonic emissions	Class A	directly connected to the public low-voltage
IEC 61000-3-2		power supply network that supplies buildings
Voltage fluctuations/flicker	Compliance	used for domestic purposes.
emissions		
IEC 61000-3-3		

Manufacturer's Manual and Declaration - Electromagnetic Resistance

	TestLevelasper		Electrom agnetic
Resistance Test	EC 60601	LevelofCom pliance	Environm ent
Electrostatic	± 6 kV for contact	± 6 kV for contact	Floors should be wood,
discharge (ESD)	± 8 kV for air	± 8 kV for air	concrete or ceramic tile.
IEC 61000-4-2			If floors are covered with
			synthetic material, the relative
			humidity should be at least
			30%
Electrical fast	± 2kV for power supply	± 2kV for power supply	Mains power quality should be
transient/burst	lines	lines	that of a typical commercial
IEC 61000-4-4	± 1kV for input/output	Not applicable	or hospital environment.
	lines		
Surge	± 1 kV line(s) to line(s)	± 1 kV in differential	Mains power quality should be
IEC 61000-4-5	±2 kV line(s) to earth	mode	that of a typical commercial
		Not applicable	or hospital environment
Voltage Dips,	<5% UT(>95% dip in	<5% UT(>95% dip in	Mains power quality should be
short interruptions	UT) for 0,5 cycle	UT) for 0,5 cycle	that of a typical commercial
and voltage	40% UT(60% dip in	40% UT(60% dip in	or hospital environment. If the
variations on	UT) for 5 cycles	UT) for 5 cycles	user of SR321
power supply	70% UT(30% dip in	70% UT(30% dip in	requires continued
input lines IEC	UT) for 25 cycles	UT) for 25 cycles	operation during power
61000-4-11	<5% UT(>95% dip in	<5% UT(>95% dip in	mains interruptions, it is
	UT) for 5 s	UT) for 5 s	recommended that SR321
			should be powered from an
			uninterruptible power supply
			or a battery.

let Chair



Resistance Test	Test Levelas per EC 60601	LevelofCom pliance	Electrom agnetic Environm ent
Power frequency(50, 60	3 A/m	3 A/m	SR321 power frequency
Hz) magnetic field IEC			magnetic fields
61000-4-8			should be at levels
			characteristic of a
			typical location in a
			typical commercial or
			hospital environment.

NOTE: UT is the a.c. mains voltage prior to application of the test level.

	TestLevelasper	Levelof	
Resistance Test			Electrom agnetic Environm ent
	IEC 60601	Com pliance	
Conducted RF	3 Vrms	3 Vrms	Portable and mobile RF communications
IEC 61000-4-6	150 kHz to 80		equipment should be used no closer to any
	MHz		part of SR321 including cables, than the
Radiated high-	3 V/m	3 V/m	recommended separation distance calculated
frequency	80 MHz to 2.5		from the equation applicable to the frequency
phenomena	GHz		of the transmitter.
IEC 61000-4-3			Recommended distances:
			$d = 1.2\sqrt{P}$
			$d = 1.2\sqrt{P} 80 \text{ MHz to } 800 \text{ MHz}$
			$d = 2.3 \ \sqrt{P} \ 800 \ MHz \ to \ 2.5 \ GHz$
			Where P is the maximum output power rating
			of the transmitter in watts (W) according
			to the transmitter manufacturer and d is the
			recommended separation distance in mattress
			(m).
			Field strengths from fixed RF transmitters, as
			determined by an electromagnetic site survey
			a, should be less than the compliance level in
			each frequency range b.
			Interference may occur in the vicinity of
	No.		equipment marked with the following
			symbol:

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which SR321 is used exceeds the applicable RF compliance level above, SR321 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating SR321

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

NOTE At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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