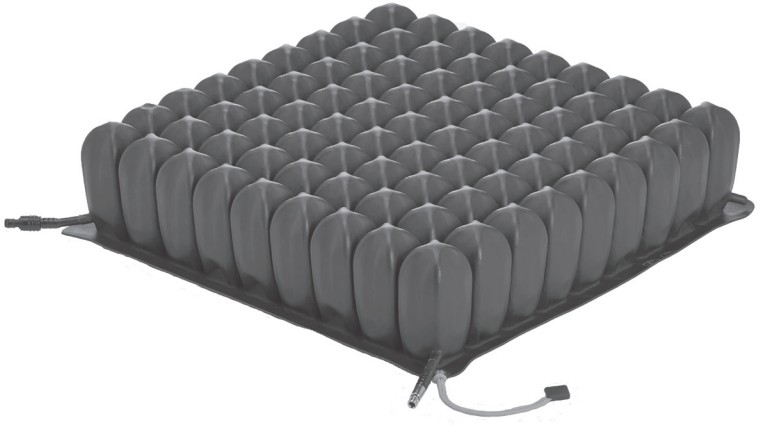
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ROHO® Single Compartment Cushion with Sensor Ready® Technology

Operation Manual



Supplier: This manual must be given to the user of this product.
Operator (Individual or Caregiver): Before using this product, read the instructions and save for future reference.

shape fitting technology®

Contact Information

ROHO, Inc.
100 N. Florida Avenue
Belleville, IL 62221-5429 U.S.A.

U.S.A.:
800-851-3449
Fax 888-551-3449

Customer Support:
orders.roho@permobil.com

Outside the U.S.A.:
618-277-9150
Fax 618-277-6518
intlorders.roho@permobil.com

⚠ Warning:

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in serious injury.

⚠ Caution:

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in minor to moderate injury or damage to the equipment or other property.

Incident Reporting

In the event of a serious incident or injury, contact Customer Support.

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Please Note

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Products may be covered by one or more U.S. and foreign patents and trademarks, including DRY FLOATATION®, HIGH PROFILE®, MID PROFILE™, ROHO®, Sensor Ready®, shape fitting technology®, Smart Check®, and Yellow Rope®. Zytel® is a registered trademark of DuPont.

Product information is changed as needed; current product information is available at permobilus.com.

ROHO, Inc. is part of Permobil Seating and Positioning.

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Rev. 2019-08-02

Intended Use

The ROHO® Single Compartment Cushion with Sensor Ready® Technology (Sensor Ready Cushion) is an adjustable, air-filled, cellular-design, wheelchair support surface that utilizes DRY FLOATATION® technology and is intended to conform to an individual's seated shape to provide skin/soft tissue protection and an environment to facilitate wound healing. There is no weight limit, yet the cushion must be properly sized to the individual. Cushion models include:

- ROHO® MID PROFILE™ Single Compartment Cushion with Sensor Ready® Technology (MID PROFILE Sensor Ready Cushion)
- ROHO® HIGH PROFILE® Single Compartment Cushion with Sensor Ready® Technology (HIGH PROFILE Sensor Ready Cushion)

The Sensor Ready Cushion is compatible with Smart Check® by ROHO®.

A clinician who is experienced in seating and positioning should determine whether the product is appropriate for the individual's particular seating needs. The product's intended use statement alone should not be relied upon to make that determination.

The medical products featured in this document are intended to be only one part of an overall care regimen that includes all seating and mobility equipment and therapeutic interventions. A clinician who is experienced in seating and positioning should identify this care regimen after evaluating the individual's physical needs and overall medical condition.

A clinician should also evaluate for visual, reading, and cognitive impairment to determine the need for caregiver assistance or the need for other assistive technology, such as large-print instructions, to ensure
proper product use.

Important Safety Information

⚠ Warnings

- **Skin/soft tissue breakdown can occur due to a number of factors, which vary by individual. Check skin frequently, at least once a day. Redness, bruising, or darker areas (when compared to normal skin) may indicate superficial or deep tissue injury and should be addressed. If there is any discoloration to skin/soft tissue, STOP USE immediately. If the discoloration does not disappear within 30 minutes after disuse, immediately consult a healthcare professional.**
- **The cushion and the cover MUST be compatible sizes and MUST be used as directed in this manual. IF THEY ARE NOT: 1) The benefits provided by the cushion may be reduced or eliminated, increasing the risk to skin or to other soft tissue, and 2) the individual may become unstable and vulnerable to falling.**
- **If you are unable to perform any tasks described in this manual, seek assistance by contacting your clinician, equipment provider, distributor, or Customer Support.**

Important Safety Information, continued

Warnings, continued

- **DO NOT use your cushion on top of, or in conjunction with, any other products or materials, except as indicated in this manual. Doing so may cause the individual to become unstable and vulnerable to falling.**
- **DO NOT place any obstructions between the individual and the cushion. USE ONLY a compatible cover with the cushion; placing any other item directly under the individual, whether inside or outside the cover, will make the cushion less effective.**
- **DO NOT use your cushion as a water flotation device (e.g., a Life Preserver). It will NOT support you in water.**
- **The cushion surface will acclimate to the surrounding temperature. Take appropriate precautions, especially when the cushion will contact unprotected skin.**
- **DO NOT expose your cushion to high heat, open flames or hot ashes. Testing or certification claims, including for flammability, may no longer apply to this device when it is combined with other products or materials. Check testing and certification claims for all products used in combination with this device.**
- **Use caution when handling the cushion: Metal grommets on the corners may be a finger trap hazard.**

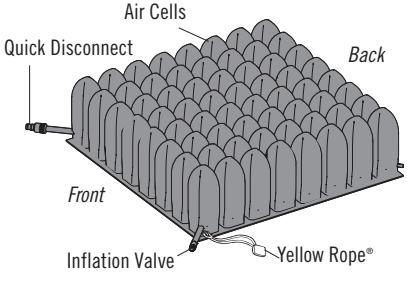
Cautions

- Using a cover or a repair kit other than those compatible with your product may void your product's warranty.
- The ROHO Sensor Ready Cushion is intended to be inflated only with the ROHO Hand Pump.
- DO NOT modify the cushion or any components. Doing so may result in damage to the product and will void the warranty.
- DO NOT allow your cushion to come into contact with oil-based lotions or lanolin. They may degrade the material.
- Prolonged exposure to ozone may degrade materials used in the cushion, affect the performance of the cushion, and void the product warranty.
- Changes in altitude may require adjustment to your cushion.
- Keep your cushion away from sharp objects.
- If the cushion has been in temperatures lower than 32° F (0° C) and exhibits unusual stiffness, allow the cushion to warm to room temperature.
- Periodically, check the cover and components for damage and replace if necessary.
- DO NOT use the inflation valve, the quick disconnect, or hoses as a handle for carrying or pulling the cushion. Carry the cushion by the cushion base or by the carrying handle on the cover.

Parts Detail

Package contents: Sensor Ready Cushion, cover, operation manual, product registration card, ROHO Hand Pump, repair kit, limited warranty supplement. To order replacement parts, contact your product provider or Customer Support.

Cushion





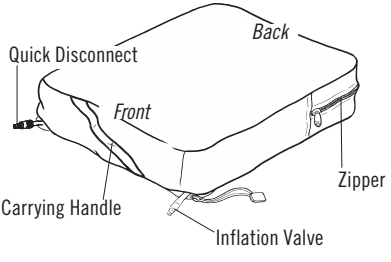
Repair Kit



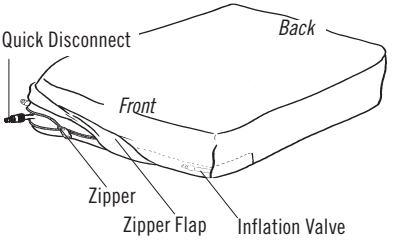
ROHO Hand Pump

The serial number label is located on the bottom of the cushion.

Standard Cover



Heavy Duty Cover



Materials:

Cushion: neoprene rubber; made without latex

Inflation valve: Zytel

Yellow Rope: nylon

Quick Disconnect: acetal coupling for connecting the cushion to Smart Check by ROHO.

Standard Cover: two-way stretch top, spacer fabric sides, with a zipper located in the back of the cover; and a non-skid bottom. Refer to cover care label for material content and for compliance to flammability requirements.

Heavy Duty Cover: two-way stretch, fluid-resistant top and sides, with a zipper located in the front of the cover; and a non-skid bottom. Refer to cover care label for material content and for compliance to flammability requirements.

Product Specifications

Standard Cushion Dimensions and Weights

Cushion:	MID PROFILE (MP)	HIGH PROFILE (HP)
Height	31/4in. (8.5 cm)	41/4in. (10.5 cm)
Average Weight*	3.0 lb. (1.4 kg)	3.25 lb. (1.5 kg)
Min. Width	7 cells; 131/4in / 33.5cm	6 cells; 111/2in / 29cm
Min. Depth	7 cells; 131/4in / 33.5cm	6 cells; 111/2in / 29cm
Max. Width	13 cells; 231/2in/ 59.5cm	15 cells; 263/4in / 68cm
Max. Depth	12 cells; 213/4in / 55cm	12 cells; 213/4in / 55cm

** based on 9 x 9 cell cushions: 16.5 in. x 16.5 in. (42 cm x 42 cm)*

Note: Contact Customer Support for specific cushion sizes.

Cushion expected lifetime: 5 years

Cushion Adjustment

This cushion is equipped with Sensor Ready Technology and can be used with Smart Check by ROHO, which is a cushion feedback system. Smart Check can be used to find the individual's inflation level and help check their cushion. For more information, contact Customer Support.



NOTE: If you own Smart Check by ROHO, **STOP HERE** and refer to the *Smart Check® by ROHO® Operation Manual.*

⚠ Warnings:

- **Check inflation frequently, at least once a day!**
- **DO NOT use an under-inflated cushion or an over-inflated cushion because the product benefits will be reduced or eliminated, resulting in an increased risk to skin and other soft tissue. If the cushion does not appear to be holding air, or if you are not able to inflate or deflate the cushion, see "Troubleshooting". Immediately contact your clinical caregiver, distributor, or Customer Support if the problem persists.**
- **When possible, use hook and loop fasteners to further secure the cushion to the seating surface. Hook fasteners are available upon request.**

1. Inflate the cushion:

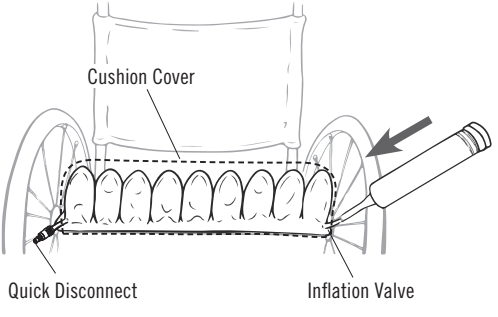
a. Place the cushion in the wheelchair with the air cells facing up and the non-skid surface of the cover facing down.

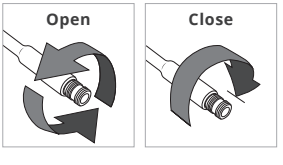
b. Slide the hand pump nozzle over the inflation valve. Open the inflation valve, at least one full rotation.

Note: The inflation valve will spin freely when open.

c. Inflate until all of the air cells feel firm. Close the inflation valve until it comes to a stop. Remove the hand pump. Make sure the inflation valve is closed.

d. See the next page.





Cushion Adjustment, continued

2. Adjust the cushion:

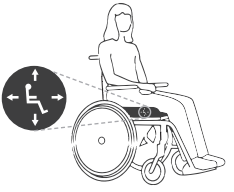
After overinflating the cushion, adjust to the Proper Cushion Inflation Setting:

a. The individual should sit in the chair in their usual position. The cushion should be centered beneath the individual.

b. Slide your hand between the cushion and the individual. Lift the leg slightly and feel for the lowest bony prominence, and then lower the leg to a sitting position.

c. Open the inflation valve to remove air, keeping your hand beneath the individual's lowest bony prominence.

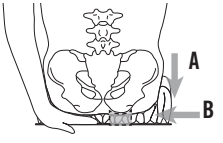
d. Release air until you are barely able to move your fingertips. Close the valve. Make sure the inflation valve is closed.



The seated figure shows product orientation.

Proper Cushion Inflation Setting

= ½" - 1" (1.5 cm - 2.5 cm)



A) "sink down" into the cushion and B)"float" above the cushion base.

Cover Removal and Replacement

⚠ **Inspect the cover for damage and replace if necessary.**

Note: Keeping a cover on your cushion will help to protect the cushion components. A cover will also help to keep the air cells together, which may aid in slide board transfers.

Refer to the label on the bottom of the cushion and to the image on the cover to correctly orient your cushion and cover.



Cover Removal: Remove Smart Check by ROHO if it is attached to the cushion. Unzip and remove the cover from the cushion.

Cover Replacement: Turn the cover and the cushion upside down: The non-skid material should face up and the zipped opening should face you. The air cells should face down. Insert the cushion into the cover, following the instructions below.

Standard Cover Instructions

The back of the cushion should face the zipper.

Make sure all four corners of the cushion extend through the corner openings in the cover. Carefully pull the inflation valve, the quick disconnect, and the Yellow Rope through the openings.

Close the zipper completely. Turn the cushion over so the air cells face up.

The cushion should lie flat inside the cover with the non-skid material on the bottom and all cells covered.

Heavy Duty Cover Instructions

The front of the cushion (the inflation valve and the quick disconnect) should face the zipper.

Tuck the inflation valve, the quick disconnect, and the Yellow Rope inside the cover.

Close the zipper completely. Turn the cushion over so the air cells face up. *Note: When Smart Check by ROHO is attached to the cushion, close the zipper as completely as possible.*

The cushion should lie flat inside the cover with the non-skid material on the bottom and all cells covered.

Cushion and Cover Care

Warnings:

- **Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check the product for proper functioning.**
- **Follow all manufacturer bleach container and germicidal disinfectant safety guidelines.**
- **Note about sterilization: High temperatures accelerate aging and will damage the product assembly. The products featured in this manual are not packaged in a sterile condition, nor are they intended or required to be sterilized prior to use. If institution protocol demands sterilization: First, follow the cleaning and disinfecting instructions; then, open the inflation valve and use the lowest possible sterilizing temperature, but not to exceed 70°C (158°F), for the shortest time possible. DO NOT autoclave.**

Cover Care

Remove any hook fastener pieces from the bottom of the cover prior to cleaning and disinfecting. Wash with like colors.

Clean the Cover: Remove the cover. Machine wash in cold water (30°C) with mild detergent, gentle cycle, or wipe clean with neutral detergent and warm water. Tumble dry low.



Disinfect the Cover: Hand wash in cold water (30°C) using 1 part household liquid bleach per 9 parts water. Keep the product wet with the bleach solution for 10 minutes, then rinse thoroughly. Or machine wash in hot water (60°C). Tumble dry low.



Cushion Care

Warning: DO NOT allow water or cleaning solution to enter the cushion. Make sure the inflation valve is closed. Make sure the Smart Check is detached from the cushion. Water in a cushion with Sensor Ready (SR) technology can result in damage to the Smart Check and cause a false reading when using Smart Check.

Caution: Use of the following may cause damage to the cushion: abrasives (steel wool, scouring pads); caustic, automatic dishwasher detergents; cleaning products that contain petroleum or organic solvents, including acetone, toluene, Methyl Ethyl Ketone (MEK), naphtha, dry cleaning fluid, adhesive remover; oil-based lotions, lanolin, ozone gas; ultraviolet light cleaning methods.

Caution: DO NOT expose to direct sunlight.

Hand Wash and Hand Disinfect the Cushion (Preferred Method)

Hand Wash the Cushion: Remove the cover, close the inflation valve, and place in a large sink. Hand wash, using mild liquid hand soap, hand dishwashing liquid, laundry detergent, or a multipurpose detergent (Follow product label instructions.) Gently scrub all cushion surfaces, using a soft plastic bristle brush, a sponge or a cloth. Rinse with clean water. Air dry.



Caution: Rinse thoroughly. Detergent residue may cause air cells to stick together.

Hand Disinfect the Cushion: Follow the hand wash instructions, using 1 part household liquid bleach per 9 parts water. Keep the product wet with the bleach solution for 10 minutes. Rinse thoroughly with clean water. Air dry.



Cushion and Cover Care, continued

Machine Wash and Disinfect the Cushion

Warnings:

- **DO NOT allow water or cleaning solution to enter the cushion. Make sure the inflation valve is closed. Make sure the Smart Check is detached from the cushion. Water in a cushion with Sensor Ready (SR) technology can result in damage to the Smart Check and cause a false reading when using Smart Check.**
- **Machine washing can cause wear and damage, including cuts and tears to the cushion and the detachment of required product information. Washing and disinfecting the cushion by hand and air drying is strongly recommended.**
- **High water temperature may cause cushion discoloration and label detachment.**
- **DO NOT expose cushions to temperatures above 70°C (158°F), which may damage cushion components.**
- **For machine washing or disinfecting, make sure the washing machine capacity is sufficient. A washing machine that isn't large enough may not remove all soil or contaminants from a cushion.**
- **Using a damaged cushion will reduce or eliminate the benefits of the cushion and increase risk to skin and other soft tissue.**

Prepare the Cushion for Machine Cleaning:

1) Remove the cover and close the inflation valve. Examine the cushion for damage, and patch any holes (refer to Repair Kit instructions provided with the product).
2) Remove stains or odors as needed: Place the cushion in warm water and a disinfectant cleaning agent. Gently scrub, using a soft plastic bristle brush, and rinse with clean water.
3) Deflate the cushion: Open the inflation valve and roll up the cushion, starting at the corner opposite the valve. After you have removed as much air as possible, close the inflation valve.
4) Inspect for any sharp edges in the washing machine that may damage the cushion.

Machine Wash the Cushion:

1) Place the cushion in a laundry bag and then into the washing machine. When folding the cushion, make sure the air cells face outward.
2) Use warm water (85º - 105ºF / 30º - 40ºC) and laundry detergent or machine- and cushion-safe cleaner/biocide, placed in the detergent dispenser.
3) Gentle cycle: Use a machine setting that does not include a high-speed spin cycle.



Caution: Rinse thoroughly. Detergent residue may cause air cells to stick together.

Machine Disinfect the Cushion:

Follow the machine washing instructions and use hot water 60°C (140°F). Use biocide (refer to the manufacturer instructions). Bleach with care: Only use a dilution of 1 part household liquid bleach per 9 parts water. Rinse with clean water.



Remove the cushion from the laundry bag and air dry. For faster drying, use a hand-held hair dryer, hold no closer than 6 in. (15 cm) from the cushion, and use a sweeping motion.



Warning: Overheating the neoprene rubber can cause permanent product damage.

Care Symbols

 **Hand wash cold, maximum temperature shown.**	 **Machine wash gentle, cold, maximum temperature shown.**
 **Machine wash hot, normal, maximum temperature shown.**	 **Machine wash gentle, warm, maximum temperature shown.**

 **Hand wash.**	 **Line dry in the shade.**	 **Tumble dry low.**
 **Use a handheld dryer.**	 **Bleach (1 part bleach: 9 parts water)**	

Troubleshooting

For additional assistance, contact your equipment provider, distributor, or Customer Support.

Not Holding Air	Inflate the cushion. Inspect the quick disconnect, the inflation valve, and hoses for damage. Confirm that the inflation valve is completely closed. Look for holes in the cushion. If very small holes or no holes are visible, follow the instructions in the Repair Kit provided with your product. For inflation valve, quick disconnect, or hose damage, or for large holes or leaks in the cushion, see the Limited Warranty supplement, or contact Customer Support.
Not Able To Inflate or Deflate the Cushion	Confirm that the inflation valve is open. Inspect the quick disconnect, the inflation valve and hoses for damage.
Uncomfortable or Unstable	Confirm that: - the cushion is not underinflated or overinflated (See "Cushion Adjustment".) - the cushion cells and the top of the cover are facing up. - the cushion is centered beneath the individual. - the cushion is properly sized to the individual and the wheelchair. Allow the individual at least one hour to adjust to the cushion.
The Cushion Slides on the Wheelchair	Make sure the non-skid bottom of the cushion cover is facing away from the individual. Use directional labels on the cushion and on the cover to orient the cushion. When possible, use hook and loop fasteners to further secure the cushion to the wheelchair. Hook fasteners are available upon request.

Storage, Disposal and Recycling

Storage: Clean and disinfect the product before storing. Open the inflation valve. Deflate the product. Store the product in a container that protects the product from moisture, contaminants and damage.

Disposal: The components of the products in this manual are associated with no known environmental hazards when properly used and when disposed of in accordance with all local/regional regulations. Incineration must be performed by a qualified, licensed waste management facility.

Recycling: Contact a local recycling agency to determine recycling options for the product. For more recycling information, contact Customer Support.

Limited Warranty

Limited Warranty Term 24 months from the date the product was originally purchased. The warranty does not apply to punctures, tears, burns, or misuse, nor does it apply to the removable cover. See also the Limited Warranty supplement provided with your product, or contact Customer Support.

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ISO 13485:2016 CERTIFICATION™
Intertek

The products featured in this document were manufactured under a Quality Management System that is certified to ISO 13485:2016.

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CE