

# ROHO® Single Compartment Cushion with Sensor Ready™ Technology Instruction & Safety Manual

Please read this manual before operation, for  
maintenance instructions and safe usage



The enabling power  
of applied knowledge

## 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)

ROHO, Inc. recommends evaluation by a clinician who is experienced in seating, positioning and mobility: 1) to determine whether the cushion is appropriate for the individual; and 2) to determine whether a solid seat platform is recommended if using the cushion on a sling-seat wheelchair.

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

ROHO medical products are intended to be part of an overall care regimen. ROHO, Inc. recommends that a clinician make product recommendations based upon an evaluation of the individual's medical and therapeutic needs and overall condition.

## Important Safety Information

### Warnings

- Check skin frequently, at least once a day. Skin/soft tissue breakdown can occur due to a number of factors, which vary by individual. Redness, bruising, or darker areas (when compared to normal skin) may indicate the beginning of soft tissue breakdown. Consult with a clinician immediately.
- 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.
- **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 ROHO, Inc. if the problem persists.
- **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** use this cushion as a water flotation device (e.g. a Life Preserver). It will **NOT** support you in water.



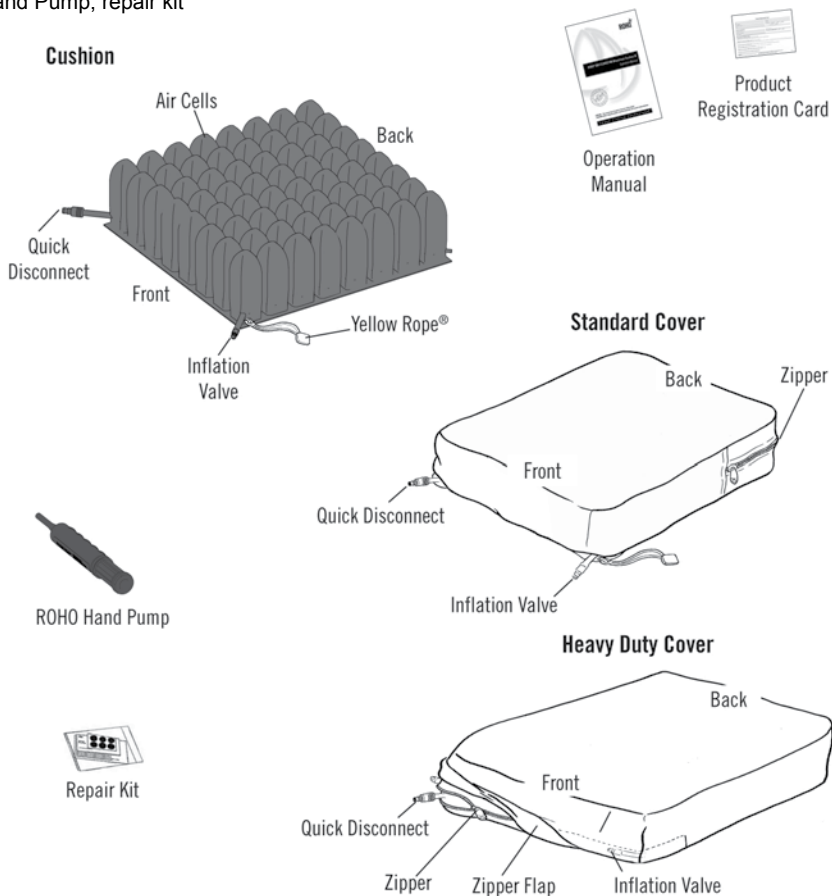
## Cautions:

- **DO NOT** use a cover or a repair kit other than those provided by ROHO, Inc. Doing so 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 oil-based lotions or lanolin to come in contact with the cushion. 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 the cushion away from sharp objects.
- **DO NOT** expose the product to high heat, open flames, or hot ashes.
- 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.
- **DO NOT** use the inflation valve, the quick disconnect, or hoses as a handle for carrying or pulling the cushion. Carry the cushion with the Yellow Rope, the cushion base, or the carrying handle on the cover.



## Parts Detail

Package contents: Sensor Ready Cushion, cover, operation manual, product registration card, ROHO Hand Pump, repair kit



## Product Specifications

**Cushion:** neoprene rubber; made without latex

**Inflation valve:** nickel-plated brass; polyurethane hose

**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 with hook and loop fasteners to help secure the cushion in the chair. Refer to cover care label for material content.

**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 with hook and loop fasteners to help secure the cushion in the chair. Refer to cover care label for material content.



## Product Specifications (Continued)

Standard Cushion Dimensions and Weights		
Cushion	Height	Average Weight*
Mid Profile (MP)	3.25 in. (850mm)	3.0lb. (1.4kg)
High Profile (HP)	4.25in. (1050mm)	3.25lb. (1.5kg)
* Based on 9 x 9 cell cushions: 16.5in. x 16.5in. (420mm x 420mm)		

	Min Width		Min Depth		Max Width		Max Depth	
	#Cells	in. (mm)	#Cells	in. (mm)	#Cells	in. (mm)	#Cells	in. (mm)
MP	7	13.25 (335)	7	13.25 (335)	11	20 (505)	11	20 (505)
HP	6	11.5 (290)	6	11.5 (290)	15	26.75 (680)	12	21.75 (550)
NOTE: Contact Customer Care for specific cushion sizes								




## 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 ROHO Customer Care (see Contact Information.)

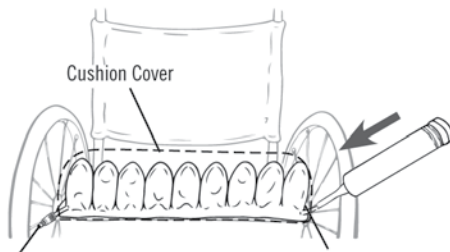
**NOTE:** If you own Smart Check by ROHO, STOP HERE and refer to the Smart Check™ by ROHO® Operation Manual.



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

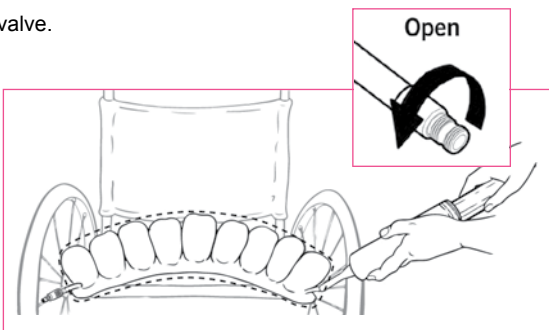
 **When possible, use the hook or loop fasteners to further secure the cover to the seating surface.**

2. Slide the rubber nozzle of the hand pump over the inflation valve.

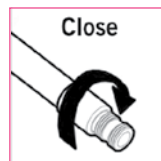


3. Pinch the nozzle and open the inflation valve.

4. Inflate the cushion with the hand pump until the cushion bulges.

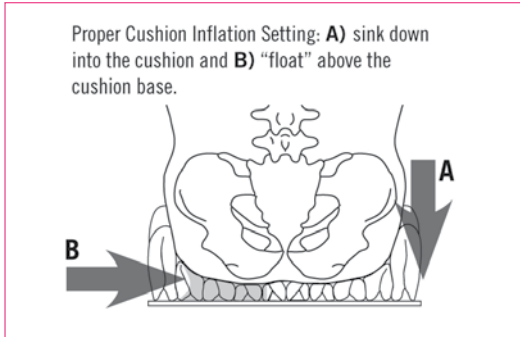


5. Pinch the rubber nozzle of the hand pump and close the inflation valve completely. Remove the hand pump.

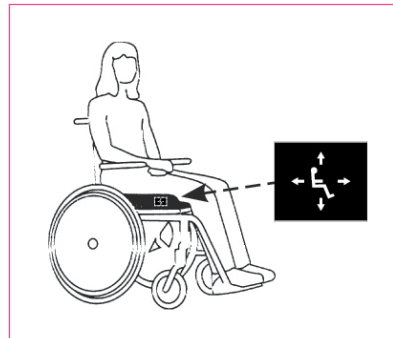




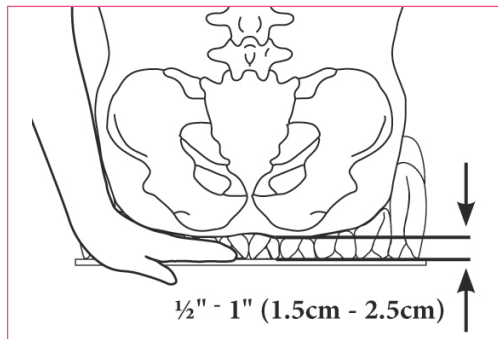
DO NOT sit on an improperly inflated cushion. Under-inflation or over-inflation of the cushion may reduce or eliminate the cushion's benefits and could increase risk to the skin and other soft tissue.



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

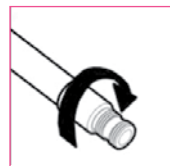


- Slide your hand between the cushion and the individual. Lift the leg slightly and feel for the lowest bony prominence, and then lower the leg to a sitting position.




- Open the valve to remove air, keeping your hand beneath the individual's lowest bony prominence. Release air until you are barely able to move your fingertips. Close the valve.

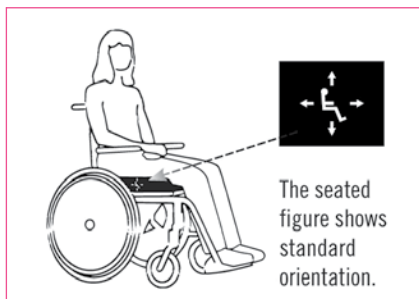
**NOTE:** The recommended distance between the individual and the seating surface is 1/2 - 1 inch (1.5 cm to 2.5 cm).



## Cover Removal and Placement

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

While a cover is not required, a ROHO cover is included with this cushion to help prevent the cushion cells from protruding beyond the wheelchair seat and to aid in slide board transfers. The non-skid bottom of the cover helps to keep the cushion more secure in the chair.



### To remove the cover:

Unzip and remove the cover from the cushion.

### To cover the cushion:

1. 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.
2. Insert the cushion into the cover, following the instructions below.

Standard Cover Instructions	Heavy Duty Cover Instructions
<p>The back of the cushion should face the zipper.</p> <p>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.</p> <p>Close the zipper completely. Turn the cushion over so the air cells face up.</p>	<p>The front of the cushion (the inflation valve and the quick disconnect) should face the zipper.</p> <p>Tuck the inflation valve, the quick disconnect, and the Yellow Rope inside the cover.</p> <p>Close the zipper completely. Turn the cushion over so the air cells face up.</p> <p>When Smart Check by ROHO is attached to the cushion, close the zipper as completely as possible.</p>
<p>The cushion should lie flat inside the cover with the non-skid material on the bottom and all cells covered.</p>	

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





## Cleaning and Disinfecting

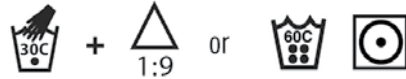
Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check product for proper functioning.

**Cover Care:** Remove hook fastener pieces from bottom of cover prior to cleaning and disinfecting. Wash with like colors.

**To 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.



**To Disinfect the Cover:** Hand wash in cold water (30°C) using 1 part household liquid bleach per 9 parts water, then rinse thoroughly. Or machine wash in hot water (60°C). Tumble dry low.



**Follow safety guidelines on bleach container.**



**Cautions:**

**DO NOT** allow water or cleaning solution to enter the cushion.

**DO NOT** machine wash or sanitize the cushion or machine dry the cushion.

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, or phenolic-based disinfectants
- ozone gas; ultraviolet light cleaning methods

**To Clean the Cushion:** Remove the cover and close the inflation valve. 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. **DO NOT** expose to direct sunlight.

**To Disinfect the Cushion:** Repeat cleaning instructions, using 1 part household liquid bleach per 9 parts water. Follow safety guidelines on bleach product label. Keep the product wet with the bleach solution for 10 minutes. Rinse thoroughly with clean water. Air dry.

**NOTE: Most germicidal disinfectants are safe if used following the disinfectant manufacturer's dilution directions.**

## Cleaning and Disinfecting, Continued

### Note About Sterilization:



**High temperatures accelerate aging and will damage the product assembly.**

ROHO products 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 60°C (158°F), for the shortest time possible. **DO NOT** autoclave.

Troubleshooting	
For additional assistance, contact your clinical caregiver, distributor, or ROHO, Inc.	
Not Holding Air	Inspect the quick disconnect, the inflation valve, and hoses for damage. Confirm that the inflation valve is completely closed (turn clockwise). 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.
Not Able To Inflate or Deflate Cushion	Confirm that the inflation valve is open. Inspect the quick disconnect, the inflation valve, and hoses for damage.
Uncomfortable / Unstable	Confirm that: <ul style="list-style-type: none"> <li>- the cushion is not over-inflated (See ADJUSTMENT.)</li> <li>- the cushion cells and the top of the cover are facing up.</li> <li>- the cushion is centered beneath the individual.</li> <li>- the cushion is properly sized to the individual and the wheelchair.</li> </ul> Allow the individual at least one hour to adjust to the cushion.
The Cushion Slides Wheelchair	Make sure non-skid bottom of the cushion cover is facing down. on the Use directional labels on the cushion and on the cover to orient the cushion. Use hook and loop fasteners to further secure the cushion to the wheelchair.

## Disposal

When properly used and disposed of, the components of the products in this manual are associated with no known environmental hazards. Dispose of the product and/or components in accordance with the applicable regulations in your jurisdiction. **DO NOT** incinerate.



## Limited Warranty

### What is covered?

ROHO, Inc. covers any defects in materials or workmanship of the product.

### For how long?

24 months from the date the product was originally purchased. The warranty does not apply to punctures, tears or burns, nor does it apply to the removable cover.

### What is not covered?

A product that has been misused, damaged by an accident, or damaged from “an act of Nature”, e.g., flood, tornado, earthquake, fire. Any substitutions of supplied product accessories or modification to the product will void the warranty.

### Questions?

See CONTACT INFORMATION on the reverse of this Instruction manual.

### Disclaimer:

Any implied warranties, including the MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE are limited to the same time period of the product types referenced above in the “For how long?” section and any action for a breach of such warranties or any express warranties herein must be commenced within that time. ROHO, Inc. shall not be responsible for any incidental or consequential damages with respect to economic loss to property, whether as a result of a breach of express or implied warranties or otherwise.

### Your Rights and the Effect of This Warranty Upon Them:

This warranty restricts the duration of all implied warranties as noted above and limits or excludes recovery for incidental or consequential damages. Some jurisdictions do not allow limitations on how long implied warranties will last and some jurisdictions do not allow the exclusion or limitation of consequential or incidental damages, so those provisions may not apply to you. While this warranty gives you specific legal



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