



## ROHO® Hybrid Elite® Cushion

### 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.

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ROHO.com

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Products in this manual may be covered by one or more U.S. and foreign patents. For further details, please refer to ROHO.com.

ROHO, Inc. has a policy of continual product improvement and reserves the right to amend specifications presented in this document. A current version of this document is available at ROHO.com.

## Intended Use

The ROHO® Hybrid Elite® Cushion (Hybrid Elite Cushion) is an adjustable, air-filled, wheelchair support surface combining a ROHO DRY FLOATATION® cellular design cushion insert with a contoured foam base and is intended to conform to an individual's seated shape in the pelvic loading area to provide skin/soft tissue protection, positioning, and an environment to facilitate wound healing. There is a weight limit of 500 lbs. (225 kg), and the cushion must be properly sized to the individual. The Hybrid Elite Cushion must be used with the supplied cover. Cushion models include:

- ROHO® Hybrid Elite SR™ Cushion (Hybrid Elite SR)
- ROHO® Hybrid Elite® Dual Compartment Cushion (Hybrid Elite Dual Compartment 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 Hybrid Elite SR 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.*

## 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 needs to 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.**
- **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 the components of this product separately. Cushion must be used with all components assembled.**
- **DO NOT use this cushion as a water flotation device (e.g. a Life Preserver). It will NOT support you in water.**
- **If you are unable to perform any tasks described in this manual, seek assistance.**

## Cautions

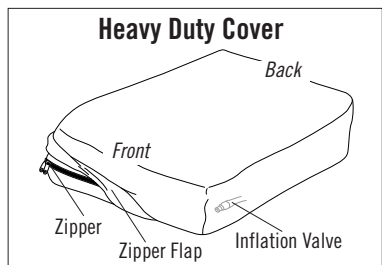
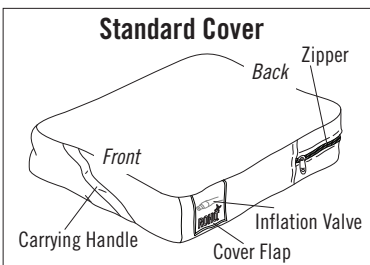
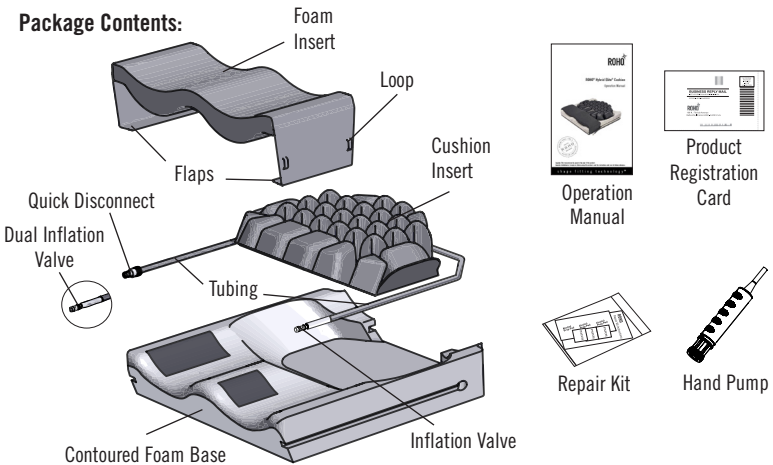
- **DO NOT use a pump, cover, or a repair kit other than those provided by ROHO, Inc. Doing so may void your product's warranty.**
- **DO NOT modify the cushion or any components. Doing so may result in damage to the product and will void the warranty.**
- **DO NOT allow your cushion to come into contact with oil-based lotions or lanolin. They may degrade the material.**

## Cautions, Continued

- 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.
- Periodically, check components for damage and replace if necessary. See **TROUBLESHOOTING**.
- DO NOT use the inflation valve or Quick Disconnect 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:



To order replacement parts, contact your product provider or ROHO, Inc. or visit [therohostore.com](http://therohostore.com).

## Product Specifications

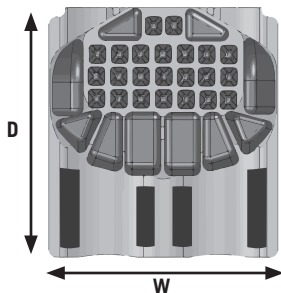
Materials: Cushion Insert: neoprene rubber, made without latex; Inflation Valve: nickel-plated brass; Contoured Foam Base: polyethylene closed cell foam; Foam Insert: polyurethane foam; Standard Cover: two-way stretch, spacer fabric sides, with a zipper located in the back of the cover and a non-skid bottom with hook and loop fasteners to help secure the cushion in the chair; 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.

## Sizing Table

Cushion		Foam Base			
Single Valve	Dual Valve	Width (in.)	Depth* (in.)	Width (cm)	Depth* (cm)
1RHE1414C-SR	2RHE1414C	13¾	14¾	35.0	37.5
1RHE1415C-SR	2RHE1415C	13¾	15¾	35.0	40.0
1RHE1416C-SR	2RHE1416C	13¾	16¾	35.0	43.0
1RHE1515C-SR	2RHE1515C	14¾	15¾	37.5	40.0
1RHE1516C-SR	2RHE1516C	14¾	16¾	37.5	43.0
1RHE1517C-SR	2RHE1517C	14¾	17¾	37.5	45.0
1RHE1615C-SR	2RHE1615C	15¾	15¾	40.0	40.0
1RHE1616C-SR	2RHE1616C	15¾	16¾	40.0	43.0
1RHE1617C-SR	2RHE1617C	15¾	17¾	40.0	45.0
1RHE1618C-SR	2RHE1618C	15¾	18¾	40.0	48.0
1RHE1620C-SR	2RHE1620C	15¾	20¾	40.0	53.0
1RHE1716C-SR	2RHE1716C	16¾	16¾	43.0	43.0
1RHE1717C-SR	2RHE1717C	16¾	17¾	43.0	45.0
1RHE1718C-SR	2RHE1718C	16¾	18¾	43.0	48.0
1RHE1816C-SR	2RHE1816C	17¾	16¾	45.0	43.0
1RHE1817C-SR	2RHE1817C	17¾	17¾	45.0	45.0
1RHE1818C-SR	2RHE1818C	17¾	18¾	45.0	48.0
1RHE1820C-SR	2RHE1820C	17¾	20¾	45.0	53.0
1RHE2017C-SR	2RHE2017C	19¾	17¾	50.0	45.0
1RHE2018C-SR	2RHE2018C	19¾	20¾	50.0	48.0
1RHE2020C-SR	2RHE2020C	19¾	20¾	50.0	53.0
1RHE2218C-SR	2RHE2218C	21¾	18¾	55.5	48.0
1RHE2220C-SR	2RHE2220C	21¾	20¾	55.5	53.0
1RHE2222C-SR	2RHE2222C	21¾	22¾	55.5	58.0
1RHE2418C-SR	2RHE2418C	23¾	18¾	60.5	48.0
1RHE2420C-SR	2RHE2420C	23¾	20¾	60.5	53.0
Weight: 3¼ lbs. / 1.4 kg (based on 1RHE1817C-SR)					
Height: 4 in. / 10.0 cm					

\*Depths shown include ¾ in. (1.5 cm) of foam base that fits between wheelchair back posts.

**Note:** All measurements are approximate. Width and depth measurements are taken from the top of the foam base and are rounded to the nearest ¼ in. or .5 cm. Cushion item numbers and cover tags indicate the wheelchair size the cushion is designed to fit.



## Cushion Adjustment

The Hybrid Elite SR 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.)



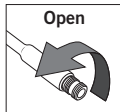
**NOTE:** If you own Smart Check by ROHO, **STOP HERE** and refer to the *Smart Check® by ROHO® Operation Manual*.

### Important Safety Information

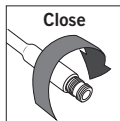
- **Check inflation frequently, at least once a day!**
- **DO NOT use an under-inflated cushion or an over-inflated cushion because the product benefits will be reduced or eliminated, resulting in an increased risk to skin and other soft tissue. If the cushion does not appear to be holding air, or if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

Note: For dual compartment cushions, repeat all steps for both valves.

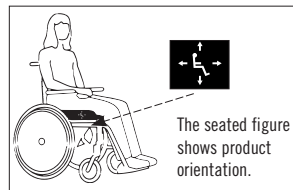
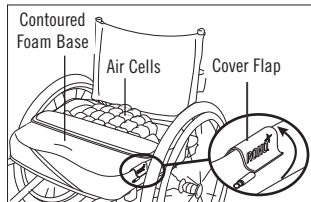
1. Place the cushion in the wheelchair with the air cells facing up and the non-skid surface of the cover facing down.
2. Open the cover flap and slide the rubber nozzle of the hand pump over the inflation valve. Pinch the nozzle, open the inflation valve, and inflate the air cells.



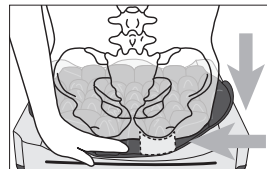
3. When the air cells begin to arch slightly, pinch the rubber nozzle of the hand pump and close the inflation valve completely. Remove the hand pump.



4. The individual should sit in the chair in their usual position. Confirm that the bony prominences are supported by the air cells.



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



6. 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.



Make sure that there is at least 1/2 in. (1.5 cm) of air supporting the individual's lowest bony prominences.

## Cover Removal and Replacement

### Cover Removal:

1. Unzip the cover.
2. For Standards Covers Only: Open the cover flap. Reach inside the cover and pull the inflation valve through the opening so that it is inside the cover. Repeat for other side.
3. Remove the cover from the cushion.

### Cover Replacement:

 **Warning:** Before replacing the cover, make sure the foam insert and the cushion insert are correctly positioned and securely attached. See **FOAM INSERT REPLACEMENT** and **CUSHION INSERT REPLACEMENT**.

Standard Cover Instructions	Heavy Duty Cover Instructions
1. Unzip the cover and with air cells facing up and the non-skid surface of the cover facing down, insert the cushion into the cover.	
2. The back of the cushion should face the zipper.	2. The front of the cushion should face the zipper.
3. Open the cover flap. Reach inside the cover and push the inflation valve through the opening beneath the cover flap. Close the cover flap. Repeat for other side.	3. Tuck all of the tubing inside the cover.
4. Zip the cover closed. If the hook fastener strips were removed prior to washing, replace the strips.	

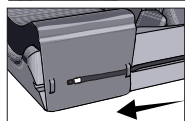
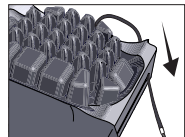
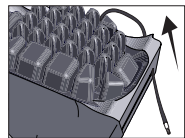
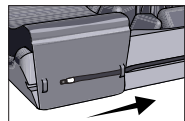
## Cushion Insert Removal and Replacement

### Cushion Insert Removal:

1. Remove the cover from the cushion. See **COVER REMOVAL**.
2. Slide the tubing out of the loop on the foam insert.
3. Remove the tubing from the groove in the foam base and gently pull through the hole in the foam base corner. Repeat for other side.
4. Remove the cushion insert from the contoured foam base.

### Cushion Insert Replacement:

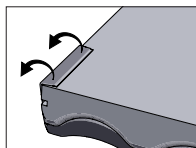
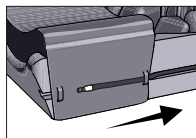
1. Place the cushion insert on the foam base, lining up the hook and loop fastener strips. Make sure the cushion insert is centered. Press down to securely attach the cushion insert to the foam base.
2. Insert the tubing through the hole in the foam base corner. Repeat for other side.
3. Slide the tubing through the loop on the foam insert and press the tubing into the groove in the foam base. Repeat for other side.
4. Confirm correct positioning of the foam insert. See **FOAM INSERT REPLACEMENT**.
5. Replace the cover. See **COVER REPLACEMENT**.



## Foam Insert Removal and Replacement

### Foam Insert Removal:

1. Remove the cover from the cushion. See **COVER REMOVAL**.
2. Slide the tubing out of the loop on the foam insert. Repeat for other side.
3. Flip the cushion over so that the cells face down and the bottom of the contoured foam base faces up.
4. Pull the foam insert flap away from the hook fastener pieces on the bottom of the contoured foam base. Repeat for the other side.
5. Flip the cushion over so that the cells are face up and the bottom of the contoured foam base faces down. Release the foam insert from the contoured foam base by pulling away from the hook fastener pieces.

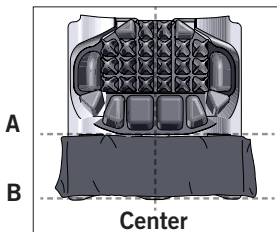


### Foam Insert Replacement:

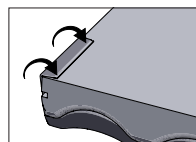
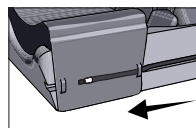
**Warning:** The foam insert must be correctly positioned on the contoured foam base.

Note: If the cushion insert was removed from the contoured foam base, replace the cushion insert before replacing the foam insert. See **CUSHION INSERT REPLACEMENT**.

1. Position the foam insert on the contoured foam base.
  - a. The foam insert is next to, but not on top of, the air cells. (A)
  - b. The foam insert lines up with, but does not extend past, the front edge of the foam base. (B)
  - c. The foam insert is centered on the foam base.



2. Once correctly positioned, press down on the foam insert to securely attach it to the contoured foam base.
3. Slide the tubing through the loop on the foam insert. As needed, push the tubing back into the groove. Repeat for other side.
4. Flip the cushion over so that the cells are facing down and the bottom of the contoured foam base is facing up.
5. Pull and attach the foam insert flaps to the hook fastener pieces on the bottom of the contoured foam base.
6. Flip the cushion over so that the cells are facing up and the bottom of the contoured foam base is facing down.
7. Replace the cover. See **COVER REPLACEMENT**.





## Cleaning and Disinfecting

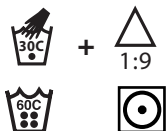
 **Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check product for proper functioning.**

Cover Care: Before cleaning and disinfecting, remove the cover from the cushion. Remove the hook fastener pieces from bottom of the cover.


To Clean the Cover: Machine wash in cold water (30°C) with mild detergent, gentle cycle, or wipe clean with neutral detergent and cold 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. Keep the product wet with the bleach solution for 10 minutes, and then rinse thoroughly. Or machine wash in hot water (60°C). Tumble dry low.




 **Follow the safety guidelines on the bleach container.**


 **Cushion Care Cautions:** Valve(s) must be closed. • DO NOT allow water or cleaning solution to enter the cushion insert. • DO NOT machine wash or machine dry the cushion insert, foam insert, or the contoured foam base. • 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 Insert: Carefully remove the cushion insert from the contoured foam base. Close the inflation valve(s). 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 Insert: Repeat cleaning 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.

 **Follow the safety guidelines on the bleach container.**

To Clean the Contoured Foam Base: Remove the cover, foam insert and cushion insert. Wipe gently with a cloth dampened with water and a household detergent.  Rinse cloth and re-wipe. Allow foam to air dry thoroughly before putting the cover on.

To clean the Foam Insert: Wipe gently with a cloth dampened with water and a household detergent. Rinse cloth and re-wipe. Allow the foam to dry thoroughly before placing on the contoured foam base. 



This symbol means, "Wipe with a damp cloth."



**Disinfectants are not effective on porous surfaces such as foam. If a foam component of the product becomes soiled or contaminated, DO NOT use with multiple individuals. Replace soiled or contaminated foam components.**

**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 for inflation valve and hose damage. Confirm that the inflation valve(s) are 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 or hose damage, or for large holes or leaks in the cushion, see the ROHO Limited Warranty supplement, or contact Customer Care.

**Not Able To Inflate or Deflate Cushion** - Confirm that the inflation valve(s) are open. Inspect the inflation valve(s) and hose(s) for damage.

**Uncomfortable / Unstable** - Confirm that:

- the air cells are not over-inflated (See CUSHION ADJUSTMENT).
- the foam insert and cushion insert are correctly placed on the contoured foam base.
- the air cells and the top of the cover are facing up.
- the cushion is centered beneath the individual.
- the foam insert does not overlap the air cells.
- 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 down. 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.

**Component is Damaged** - Contact Customer Care for replacement.

## 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.

## Limited Warranty

Limited Warranty Term: 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. See also the ROHO Limited Warranty supplement provided with your product, or contact Customer Care.



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The Quality Management System  
of ROHO, Inc. is certified to  
ISO 9001:2008 and ISO 13485:2003.

Item #: T20194  
Rev Date: 7/7/16  
Print Date:

Qty:



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