



# ROHO DRY FLOATATION® Wheelchair Cushions

## Operation Manual



**SUPPLIER:** This manual must be given to the user of this product.

**USER:** Before using this product, read instructions and save for future reference.

shape fitting technology®

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ROHO, Inc. has a policy of continual product improvement and reserves the right to amend this document. A current version of this document is available at [www.roho.com](http://www.roho.com).



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Products in this manual may be covered by one or more U.S. and foreign patents and trademarks. For further details, please refer to [www.roho.com](http://www.roho.com).

## **INTENDED USE:**

Each ROHO® DRY FLOATATION® product in this manual is an adjustable, air-filled, cellular-design wheelchair support surface. There is no weight limit, yet the cushion must be properly sized to the individual.

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.

Each of the following products utilizes DRY FLOATATION® technology and is intended to conform to an individual's seated shape to provide skin/soft tissue protection, positioning, and an environment to facilitate wound healing.

- ROHO LOW PROFILE® DUAL COMPARTMENT CUSHION (LOW PROFILE Dual Compartment Cushion)
- ROHO MID PROFILE™ DUAL COMPARTMENT CUSHION (MID PROFILE Dual Compartment Cushion)
- ROHO HIGH PROFILE® DUAL COMPARTMENT CUSHION (HIGH PROFILE Dual Compartment Cushion)
- ROHO QUADTRO SELECT® LOW PROFILE® CUSHION (QUADTRO SELECT LOW PROFILE)
- ROHO QUADTRO SELECT MID PROFILE™ CUSHION (QUADTRO SELECT MID PROFILE)
- ROHO QUADTRO SELECT HIGH PROFILE® CUSHION (QUADTRO SELECT HIGH PROFILE)
- ROHO CONTOUR SELECT® CUSHION (CONTOUR SELECT)
- ROHO ENHANCER® CUSHION (ENHANCER)

Each of the following products 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.

- ROHO LOW PROFILE® SINGLE COMPARTMENT CUSHION (LOW PROFILE Single Compartment Cushion)
- ROHO MID PROFILE™ SINGLE COMPARTMENT CUSHION (MID PROFILE Single Compartment Cushion)
- ROHO HIGH PROFILE® SINGLE COMPARTMENT CUSHION (HIGH PROFILE Single Compartment Cushion)

## **PRODUCT SPECIFICATIONS:**

### **MATERIALS:**

The wheelchair cushions in this manual are made of neoprene rubber with nickel plated brass valves. The SELECT cushions also have ISOFOLO Memory Control®. The top and bottom of the ISOFOLO Memory Control is polycarbonate, the knobs are polypropylene and the spindle is polypropylene molded over aluminum.

## PRODUCT SPECIFICATIONS CONTINUED:

### STANDARD CUSHION DIMENSIONS AND WEIGHTS:

CUSHION	HEIGHT	AVERAGE WEIGHT*
LOW PROFILE SINGLE COMPARTMENT CUSHION	2.25 in. (5.5 cm)	2.5 lbs. (1.1 kg)
LOW PROFILE DUAL COMPARTMENT CUSHION	2.25 in. (5.5 cm)	2.5 lbs. (1.1 kg)
QUADTRO SELECT LOW PROFILE	2.25 in. (5.5 cm)	2.5 lbs. (1.1 kg)
MID PROFILE SINGLE COMPARTMENT CUSHION	3.25 in. (8.5 cm)	3.0 lbs. (1.4 kg)
MID PROFILE DUAL COMPARTMENT CUSHION	3.25 in. (8.5 cm)	3.0 lbs. (1.4 kg)
QUADTRO SELECT MID PROFILE	3.25 in. (8.5 cm)	3.0 lbs. (1.4 kg)
HIGH PROFILE SINGLE COMPARTMENT CUSHION	4.25 in. (10.5 cm)	3.25 lbs. (1.5 kg)
HIGH PROFILE DUAL COMPARTMENT CUSHION	4.25 in. (10.5 cm)	3.25 lbs. (1.5 kg)
QUADTRO SELECT HIGH PROFILE	4.25 in. (10.5 cm)	3.25 lbs. (1.5 kg)
CONTOUR SELECT	2.25 to 4.25 in. (5.5 to 10.5 cm)	3.5 lbs. (1.6 kg)
ENHANCER	2.25 to 4.25 in. (5.5 to 10.5 cm)	3.5 lbs. (1.6 kg)

\*Note: The average weights are based on 9 x 9 cell (16.5 in. x 16.5 in., 42.0 cm x 42.0 cm) cushions.

CUSHION	SMALLEST WIDTH			SMALLEST DEPTH			LARGEST WIDTH			LARGEST DEPTH		
	# cells	in.	cm	# cells	in.	cm	# cells	in.	cm	# cells	in.	cm
LOW PROFILE SINGLE COMPARTMENT CUSHION	6	11.5	29.0	6	11.5	29.0	11	20.0	50.5	11	20.0	50.5
LOW PROFILE DUAL COMPARTMENT CUSHION	6	11.5	29.0	6	11.5	29.0	11	20.0	50.5	11	20.0	50.5
QUADTRO SELECT LOW PROFILE	5	11.0	28.0	6	11.75	30.0	13	24.5	62.5	12	22.0	56.0
MID PROFILE SINGLE COMPARTMENT CUSHION	7	13.25	33.5	7	13.25	33.5	11	20.0	50.5	11	20.0	50.5
MID PROFILE DUAL COMPARTMENT CUSHION	8	14.75	37.5	9	16.5	42.0	8	14.75	37.5	9	16.5	42.0
QUADTRO SELECT MID PROFILE	8	16.0	41.0	8	15.25	38.5	10	19.5	49.5	10	18.5	47.0
HIGH PROFILE SINGLE COMPARTMENT CUSHION	6	11.5	29.0	6	11.5	29.0	15	26.75	68.0	12	21.75	55.0
HIGH PROFILE DUAL COMPARTMENT CUSHION	6	11.5	29.0	6	11.5	29.0	11	20.0	50.5	11	20.0	50.5
QUADTRO SELECT HIGH PROFILE	6	12.75	32.5	6	11.75	30.0	14	26.25	67.0	12	22.0	56.0
CONTOUR SELECT	7	14.5	36.5	8	15.25	38.5	13	24.5	62.5	12	22.0	56.0
ENHANCER	8	14.75	37.5	8	14.75	37.5	11	20.0	50.5	11	20.0	50.5

Note: Refer to Customer Care for specific cushion sizes.

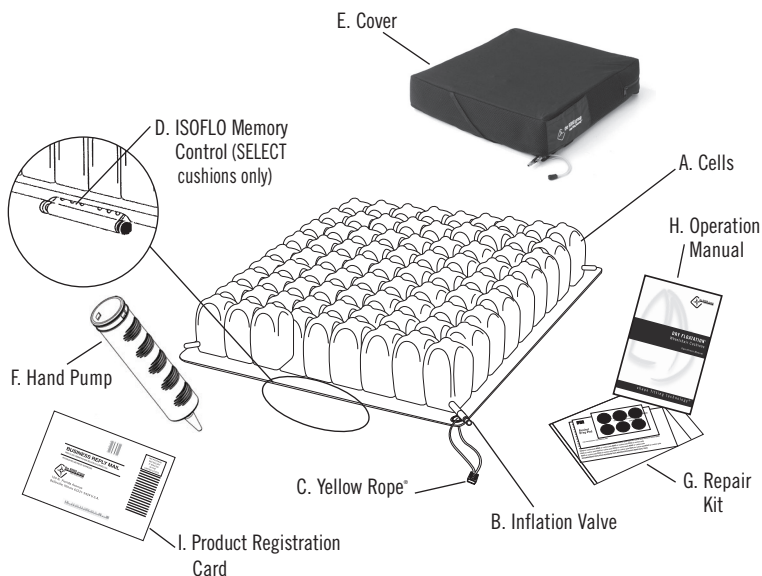
## CAUTIONS

*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.*

- 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.
- **CHECK INFLATION, FREQUENTLY, AT LEAST ONCE A DAY!**
- **PROPER INFLATION:** The use of any other inflation device other than the supplied hand pump may damage the cushion and void the warranty.
- **UNDER-INFLATION: DO NOT** use an under-inflated cushion. Doing so reduces or eliminates the cushion's benefits, increasing risk to the skin and other soft tissue. If your cushion appears under-inflated or does not appear to be holding air, check to make sure that all valve(s) are closed by turning the inflation valve(s) clockwise. **NOTE:** For SELECT Cushions, check that the green knob of the ISOFOLO Memory Control is pushed toward the center of the ISOFOLO in the UNLOCKED position so that all chambers will inflate during the inflation process. If your cushion is still not holding air, contact your clinical caregiver, distributor, or ROHO, Inc. immediately.
- **OVER-INFLATION: DO NOT** use an over-inflated cushion. Doing so will not allow you to sink into the cushion and will reduce or eliminate the cushion's benefits increasing risk to the skin and other soft tissue.
- **CUSHION AND COVER ORIENTATION:** Product must be used with the air cells facing up. If the cover is not used correctly or if the cover is the wrong size, it may reduce or eliminate the cushion's benefits and could increase risk to the skin and other soft tissue.
- **PRESSURE:** Changes in altitude may require adjustment to your cushion. Check your cushion when changing altitude.
- **PUNCTURE:** Keep your cushion away from sharp objects, which may puncture the air cells and cause it to deflate.
- **HEAT/FLAME: DO NOT** expose your cushion to high heat, open flames or hot ashes.
- **CLIMATE:** If a cushion has been in temperatures less than 32°F / 0°C and exhibits unusual stiffness, allow the cushion to warm to room temperature, then open corner air valve. Roll up the cushion and then unroll it until the neoprene is soft and pliable again. Repeat proper adjustment instructions before using.
- **INSTABILITY AND FALL HAZARD: DO NOT** use your cushion on top of, or in conjunction with, any other products or materials, except as indicated in Intended Use section. Doing so may add to user instability resulting in falls. Consult with your clinician for proper usage.
- **OBSTRUCTIONS: DO NOT** place any obstructions between the user and the cushion, as it will reduce product effectiveness.
- **HANDLING: DO NOT** use any valve as a handle for carrying or pulling your cushion. Carry your cushion either by the yellow nylon carrying rope (where appropriate), the cushion's base, or the cover's carrying handle.
- **SOLUTIONS: DO NOT** allow oil-based lotions or lanolin to come in contact with your cushion, as they may degrade the material.
- **OZONE GENERATORS:** The U.S. Environmental Protection Agency, Health Canada, and other government agencies have issued warnings regarding the use of ozone generators. Prolonged exposure to ozone will degrade rubber, fabrics, and other materials used in the manufacture of your ROHO product and may affect the performance of your product and void the product warranty.
- **PRODUCT USE: DO NOT** use your cushion as a water flotation device (e.g., a Life Preserver).
- **DO NOT** use a pump, cover, or repair kit other than those provided by ROHO, Inc. Doing so may void your product's warranty.
- If you are **UNABLE TO PERFORM ANY TASKS** described in this manual, seek assistance.

## PARTS DETAIL:

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A. Cells: Individual interconnected air pockets.

B. Inflation Valve: Used to open and close your cushion's airway. Some models may have more than one valve.

C. Yellow Rope: Used to lift and carry the cushion.

D. ISO-FLO Memory Control: On SELECT cushions only. The ISO-FLO Memory Control allows you to manage the air distribution in the cushion for additional positioning and stability by locking the air into separate compartments.

E. Cover: Used to protect cushion. Includes hook and loop fasteners on bottom to help secure cushion in chair.

F. Hand Pump: Used to inflate your cushion.

G. Repair Kit: Patch kit for small repairs.

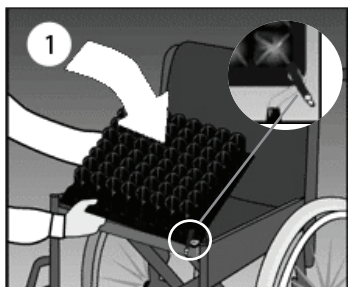
H. Operation Manual: Your instructions on adjustment, care, warranty and other important information about your cushion.

I. Product Registration Card: Used to register your product. Complete product registration card and mail to ROHO Inc. or register online at [www.roho.com](http://www.roho.com).

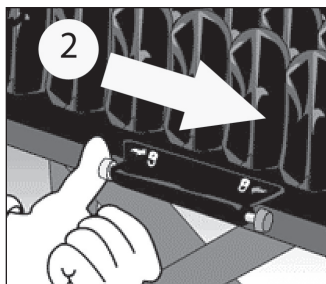
To order replacement parts, from the U.S.A., contact the ROHO Customer Care Department, call your product provider or visit The ROHO Store at [www.therohostore.com](http://www.therohostore.com). Outside the U.S.A., contact your country's ROHO distributor.

## ADJUSTMENT INSTRUCTIONS:

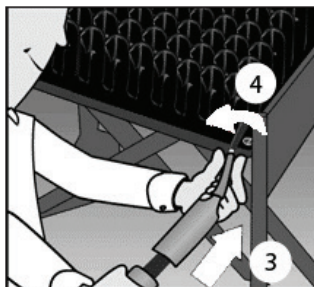
**! NOTE:** Dual Compartment Cushions: To maximize the positioning benefits for individuals with a pelvic obliquity, the side with the deepest bony prominence must be adjusted first. Dual compartments may be used for side-to-side or front-to-back positioning. For those who use front-to-back positioning, adjust the rear section first. Once both adjustments are made, recheck each compartment to ensure proper adjustment.



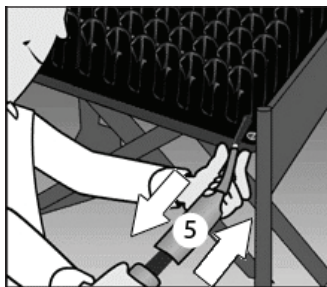
1. Center cushion on chair, making sure air cells face up. Consult your prescriber about alternative positions of air valves.



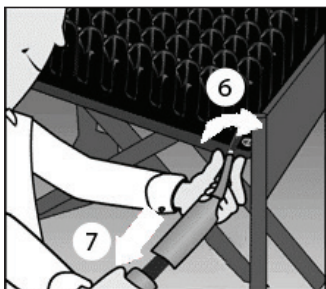
2. (THIS STEP - SELECT CUSHIONS ONLY.) Push ISOFOLO's Green Knob toward the center or "UNLOCKED" to open.



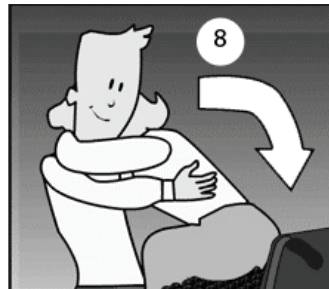
3. Slide the pump's rubber nozzle over the valve.  
4. Turn valve counterclockwise to open.



5. Inflate the cushion until it begins to slightly arch upward.

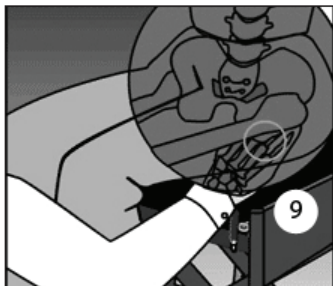


6. Pinch the pump's nozzle and turn clockwise to close.  
7. Remove pump. (Repeat steps 1 - 7 for remaining air valves on multi-valve cushions.)

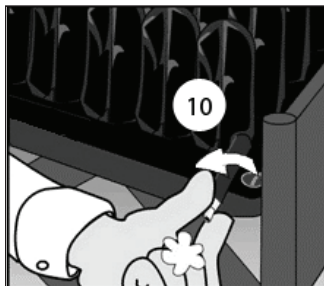


8. Have the user sit in the chair, making sure the cushion is centered underneath. The user should be seated in their normal sitting position.

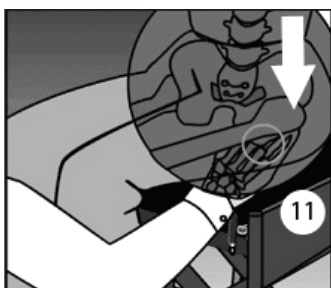
## ADJUSTMENT INSTRUCTIONS, CONTINUED:



9. Slide your hand between the cushion's surface and the user's bottom. Lift their leg slightly and feel for their lowest bony prominence. Then lower their leg to a sitting position.



10. Open valve to let out air, while keeping your hand under the person's lowest bony prominence.

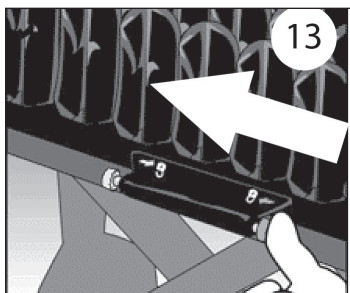


11. Release air until you can barely move your finger tips.

**! INFLATION: DO NOT** sit on an improperly inflated cushion. Under-inflation and over-inflation of the cushion, including individual sections, reduce or eliminate the cushion's benefits and could increase risk to the skin and other soft tissue. The cushion is most effective when there is  $\frac{1}{2}$  inch (1.5 cm) to 1 inch (2.5 cm) of air between the user's bottom and the seating surface.



12. Turn valve to close. (Repeat steps 9 - 12 for remaining air valves on multi-valve cushions.)



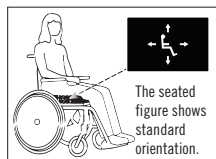
13. (SELECT CUSHIONS ONLY) Position user on the cushion in their desired posture and have them maintain this position while air transfers through the ISO FLO Memory Control. Once the air transfer is complete, push the ISO FLO's "Red" knob toward the center, in the LOCKED position. This will isolate the flow of air and provide a more stable sitting position. Recheck each compartment of the cushion to ensure proper inflation.

## COVER REMOVAL & REPLACEMENT:

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

To cover your cushion:

1. Unfold the cover with the non-skid material facing upward and zipper facing you.
2. Insert your cushion into the cover with the air cells down.
3. Standard Cover- Pull the grommated corner of your cushion through an opening at the corner of the cover until the metal grommet is exposed. Repeat this procedure until all four corners are exposed. (Be careful when pulling the valve stem and rope handle through the opening).  
Heavy Duty Cover - Gently insert your cushion into the cover, with the valve towards the zipper.
4. Close the zipper and turn the cushion over so cells are facing up. Your cushion is now ready for use as long as it has been properly adjusted (see Adjustment Instructions in this manual).



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

If properly fitted, the cushion will sit flat on the chair (non-skid material on the bottom) with all cells covered and all four corners showing (not applicable for HD).

To remove the cover: Unzip and remove the cover from the cushion.



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

## CLEANING & DISINFECTING YOUR PRODUCT:

Cleaning and disinfecting are two separate processes. Cleaning must precede disinfection. Product must be cleaned, disinfected, and checked for proper functioning between use by different individuals.

**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. The cover can also be machine washed in hot water (60°C) to disinfect. Tumble dry low.



or



**Note:** Follow safety guidelines on bleach container.

**To Clean the Cushion:** Remove the cover, close valve(s) and place in large sink. ROHO, Inc. recommends using a mild, hand washing liquid dish washing or laundry detergent or other multipurpose detergents used for general cleaning. Dilute, following product label directions for surface cleaning. Use a soft plastic bristle brush, sponge or washcloth to gently scrub all cushion surfaces. Rinse with fresh water and air dry. **DO NOT** expose to direct sunlight.

**To Disinfect the Cushion:** Repeat cleaning instructions above using a solution of 1 part household liquid bleach per 9 parts of warm water. Follow safety guidelines on bleach product label. Keep the clean product wet with bleach solution for 10 minutes. Rinse thoroughly with fresh water and air dry. **Note:** Most germicidal disinfectants are safe if used following the disinfectant manufacturer's dilution directions.

**DO NOT:** - machine wash or machine dry the cushion.



- use abrasives such as steel wool or scouring pads.
- use caustic, automatic dishwasher detergents.
- use cleaning products containing petroleum or organic solvents including acetone, toluene, Methyl Ethyl Ketone (MEK), naphtha, dry cleaning fluids, adhesive removers, etc.
- allow water or cleaning solution to enter the product.
- expose the product to ultraviolet light or ozone gas cleaning methods.
- use oil-based lotions, lanolin, or phenolic-based disinfectants on your product, as they may compromise the integrity of the material.

## **CLEANING & DISINFECTING YOUR PRODUCT CONTINUED:**

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To Sterilize the Cushion: Follow Cleaning and Disinfection guidelines above. ROHO products are not packaged in a sterile condition nor are they intended or required to be sterilized prior to usage. High temperatures accelerate aging and may cause damage to the product assembly. If institution protocol demands sterilization, open the valve(s) and use the lowest temperature possible for the shortest time possible. Gas sterilization is preferable to steam autoclave, but neither are recommended. In any process using pressure, ensure all valves are open to prevent damage to the product. ROHO, Inc. highly discourages sterilization methods using temperatures greater than 200° F (93° C) for DRY FLOATATION products.

## **TROUBLESHOOTING:**

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Not Holding Air: First, make sure all valves are closed tightly by turning valves clockwise. If still not holding air, visibly check for holes. If no holes are visible, close the valve and immerse an inflated section in sink or tub of water and look for air bubbles.

If 'pin-hole,' sized holes are found, use the repair kit that came with your product and follow the repair kit instructions. If large holes or other leaks are found, see LIMITED WARRANTY Section.

Uncomfortable/Unstable: Make sure cushion is not over-inflated. (see Adjustment Instructions). Make sure air cells and the cover's stretch top are facing "UP". Make sure cushion is not too big or too small for the wheelchair. Allow the user to sit on the cushion for at least one hour to get use to the texture of the product's surface and immersion into the air cells.

Cushion Slides On Wheelchair: Make sure non-skid bottom of the cushion cover is facing "DOWN." Use directional labels on cushion and cover.

## **DISPOSAL:**

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

## **CONTACT INFORMATION:**

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In the U.S.A:

ROHO Customer Care and Warranty Service:

Phone: 800-851-3449 • Fax: 888-551-3449

Customer Care: [cc@roho.com](mailto:cc@roho.com)

Warranty Service: [warranty@roho.com](mailto:warranty@roho.com)

Note: If directed to return any items, please send to:

ROHO, Inc.

1501 South 74th Street

Belleville, IL 62223

Outside the U.S.A.:

ROHO International:

[intl@roho.com](mailto:intl@roho.com) • Phone: 618-277-9150 • Fax: 618-277-6518

Or visit [www.roho.com](http://www.roho.com) for a list of ROHO International distributors.

## **RETURN POLICY:**

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All products returned must be new and unused, require prior authorization from ROHO Inc., and are subject to a restocking charge. Before returning your product in the U.S.A., contact our Warranty Service Department.

Outside of the U.S.A., contact your country's ROHO International distributor.

## **LIMITED WARRANTY:**

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What is covered?

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

For how long?

From the date the product was originally purchased:

SELECT CUSHIONS	36 months
All other DRY FLOATATION Products	24 months
Cushion Covers	6 months

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.

What the customer must do.

Within the U.S.A., the customer must contact the ROHO, Inc. Warranty Service Department.

Note: Any items sent to ROHO, Inc. without prior authorization will not be returned to the customer. Outside the U.S.A., contact your country's ROHO International distributor.

Questions?

See CONTACT INFORMATION.

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.

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 rights, you may also have other rights which vary from jurisdiction to jurisdiction.



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[www.roho.com](http://www.roho.com)



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

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Revision: 04/21/15  
Print Date:

Qty:



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