



# DRY FLOATATION<sup>®</sup>

## cushioning products

Operations Manual



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

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

shape fitting technology<sup>®</sup>

The ROHO Group, Inc. has a policy of continual product improvement and reserves the right to amend specifications presented in this manual.

ROHO® Cushioning Products are manufactured in the U.S.A. for The ROHO Group, Inc., 100 North Florida Avenue, Belleville, Illinois 62221-5429, [www.therohogroup.com](http://www.therohogroup.com).

© 2007 The ROHO Group, Inc.

The following are trademarks and registered trademarks of ROHO, Inc.: ROHO®, DRY FLOATATION®, ISOFLO® Memory Control™, MINI-MAX®, Yellow Rope®, shape fitting technology®, PACK-IT®, CONTOUR SELECT™, ENHANCER®, QUADTRO® SELECT®, HIGH PROFILE®, LOW PROFILE® and ADAPTOR®.



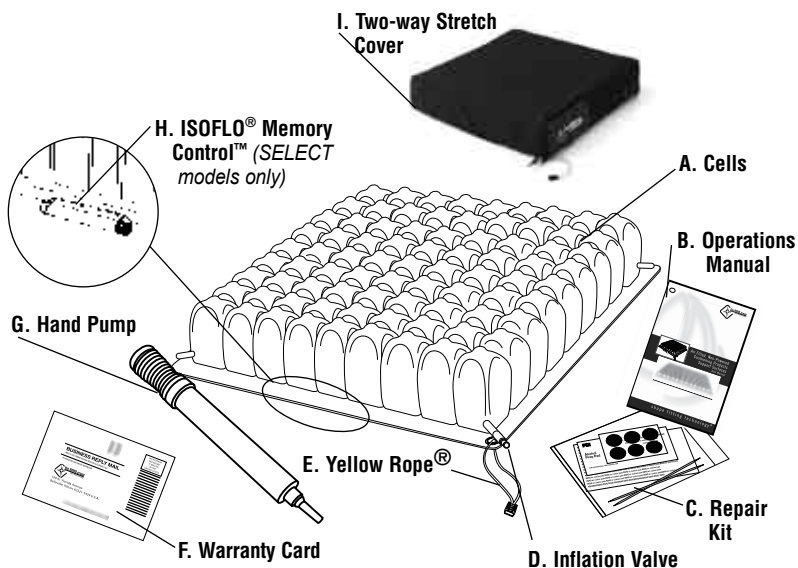
## PRECAUTIONS

• **CHECK YOUR PRODUCT EVERY DAY AND FREQUENTLY WHILE USING!**

- **PRODUCT USE:** This product is designed to be used as a cushioning device to conform to a user's seated shape to protect skin tissue and aid in the prevention of tissue breakdown. DO NOT use your cushion as a water flotation device (e.g., a Life Preserver). Do not use on top or in conjunction with another cushioning product.
- **CLINICIAN RESPONSIBILITY:** The ROHO Group recommends that a clinician such as a doctor or therapist experienced in seating and positioning be consulted to determine if the ROHO DRY FLOATATION cushion is appropriate for the users particular seating needs.
- **PROPER INFLATION:** The use of any other inflation device other than the supplied hand pump may damage the cushioning product and void the warranty.
- **UNDER-INFLATION:** Do not use an under-inflated cushion. Using a cushion that is under-inflated reduces or eliminates the cushion's benefits increasing risk to the skin and 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 QUADTRO SELECT and CONTOUR SELECT Cushions, check that the green knob of the ISOFLO<sup>®</sup> Memory Control<sup>®</sup> is pushed toward the center of the ISOFLO 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 The ROHO Group immediately.
- **OVER-INFLATION:** DO NOT use an over-inflated cushion. Using an over-inflated cushion will not allow you to sink into the cushion and will reduce or eliminate the cushion's benefits increasing risk to the skin and soft tissue.
- **WEIGHT LIMIT:** The cushioning product should be correctly sized to the user. No weight limit on neoprene ROHO products if the product has been correctly sized to the user.
- **PRESSURE:** Changes in altitude may require adjustment to your cushion. Check your cushion when changing altitude of 1,000 feet (300 meters) or greater.
- **PUNCTURE:** Keep your cushion away from sharp objects, which may puncture the air cells and cause it to deflate.
- **HEAT/FLAME:** Keep your cushion away from high heat, open flames and hot ashes.
- **EXTREME COLD:** If a cushion has been in extreme cold (less than 32°F / 0°C) and experiences unusual stiffness, allow the cushion to warm to 72°F / 22°C, 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.
- **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) or the cover's carrying handle.
- **OBSTRUCTIONS:** DO NOT place any obstructions between the user and the cushion because it will reduce product effectiveness.
- **SOLUTIONS:** DO NOT allow oil-based lotions or lanolin to come in contact with your Product, 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 invalidate the product warranty.
- **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 soft tissue.

## PARTS DETAIL

---



- A. Cells:** Individual interconnected air pockets.
- B. Operations Manual:** Your instructions on adjustment, care, repairs and other important information about your cushion.
- C. Repair Kit:** Patch kit for small repairs.
- D. Inflation Valve:** Used to adjust the amount of air in your cushion. Some models may have more than one valve.
- E. Yellow Rope®:** For lifting and carrying the cushion (not available on some products).
- F. Warranty Card:** Complete warranty card and mail to ROHO Inc. or register online at [www.therohogroup.com](http://www.therohogroup.com).
- G. Hand Pump:** Used to inflate your cushion.
- H. ISOFLO® Memory Control®:** On QUADTRO® SELECT® and CONTOUR SELECT™ cushions only. The ISOFLO Memory Control allows you to manage the air distribution in the cushion for additional positioning and stability by locking the air into separate zones.
- I. Two-way Stretch Cover:** The cover protects the cushion and allows for minimal interference with the cushion's therapeutic value.

## **PRODUCT-SPECIFIC INSTRUCTIONS**

---

If you have purchased one of the following products please read the following before proceeding to the seat cushion adjustment instructions.

- **Multi-Compartment Cushions (HIGH PROFILE® Dual, LOW PROFILE® Dual, Recliner, Specials or Wedge):** Other compartments may be adjusted for comfort or positioning needs only after adjusting the cushion to the user's lowest bony prominence in each compartment. Follow adjustment instructions.
- **Dual Compartment HIGH PROFILE or LOW PROFILE 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. Follow adjustment instructions.
- **Recliner Cushion.** Adjust seat cushion section first, then back cushion section. Make sure each cushion section is adjusted properly. Follow adjustment instructions.
- **MINI-MAX® Cushion.** Follow Adjustment Instructions (page 6). Due to short cell heights, air will release rapidly. To keep air from escaping, pinch stem while closing inflation valve. Follow adjustment instructions.
- **Lumbar Support Cushion\*.** Attach cushion to the back of chair where appropriate by looping the "hook and loop" strap through the ring until secured. Follow adjustment instructions.
- **Toilet Seat Cushion.** Attach each section, following the shape of the toilet seat. Snap into place. Follow adjustment instructions.
- **Shower/Commode Seat Cushion\*.** Place cushion on seat with valve in the front. Follow adjustment instructions.
- **ADAPTOR® Pad\*.** These pads are sealed and are not adjustable.
- **PACK-IT® Cushion.** Follow adjustment instructions.
- **Sacral Support Cushion.** Follow adjustment instructions.

## **SPECIAL INSTRUCTIONS**

---

The ROHO Group recommends the use of a Solid Seat Insert or Contour Base for optimum cushion performance and to combat the effects of a sling seat. These items are available from your nearest ROHO distributor or Rehabilitation Technology Supplier.

\* Cushion cover not included.

## ADJUSTMENT INSTRUCTIONS FOR:

- HIGH PROFILE
- LOW PROFILE
- MINI-MAX
- ENHANCER®
- Toilet Seat
- PACK-IT
- Recliner Cushion
- Shower/Commode Seat
- Sacral Support  
*(adjust as needed)*
- Lumbar Support  
*(adjust as needed)*



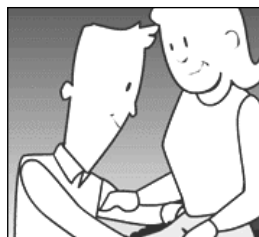
**STEP 1** Place cushion on chair, making sure it is centered and right side up, with air valve in front, left corner (Consult your prescriber about alternative positions of air valves). Turn valve counter-clockwise to open.



**STEP 2** Slide the pump's rubber nozzle over the valve and over-inflate the cushion until it begins to slightly arch upward.



**STEP 3** Turn valve clockwise to close. Remove pump. (Repeat steps 1 - 3 for remaining air valves on multi-valve cushions.)



**STEP 4** Gently place person on chair, making sure the cushion is centered underneath. The person should be seated in their normal sitting position.



**STEP 5** Slide your hand between the cushion's surface and the person's bottom. Lift their leg slightly and feel for their lowest bony prominence. Then lower their leg to a sitting position.



**STEP 6** Rotate valve counter-clockwise to let out air, while keeping your hand under the person's lowest bony prominence. Release air until you can barely move your finger tips – no more than 1 inch (2.5 cm) and no less than 1/2 inch (1.25 cm). Turn valve clockwise to close.

**NOTE:** Do not sit on an improperly inflated cushion. Under-inflation and over-inflation of the cushion sections reduce or eliminate the cushion's benefits and could increase risk to the skin and soft tissue. The cushion is most effective when there is 1/2 inch (1.25 cm) to 1 inch (2.5 cm) of air between all parts of the person and the chair.

## ADJUSTMENT INSTRUCTIONS FOR:

- QUADTRO SELECT and CONTOUR SELECT with ISOFLO Memory Control.



**STEP 1** Place SELECT cushion on chair, making sure it is centered and rightside up with the ISOFLO Memory Control Unit facing forward (Consult your prescriber about alternative positions of ISOFLO). Turn valve counter-clockwise to open.



**STEP 2** Make sure the ISOFLO Memory Control is also open by pushing ISOFLO's Green Knob to the right or "UNLOCKED".



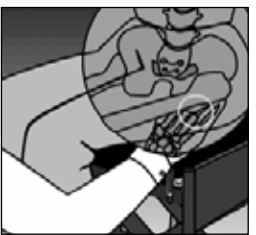
**STEP 3** Slide the pump's rubber nozzle over the valve and over-inflate the SELECT cushion until it begins to slightly arch upward.



**STEP 4** Turn valve clockwise to close. Remove pump.



**STEP 5** Gently place person on chair, making sure the cushion is centered underneath. The person should be seated in their normal sitting position.



**STEP 6** Slide your hand between the cushion's surface and the person's bottom. Lift their leg slightly and feel for their lowest bony prominence. Then lower their leg to a sitting position.



**STEP 7** Rotate valve counter-clockwise to let out air, while keeping your hand under the person's lowest bony prominence. Release air until you can barely move your finger tips – no more than 1 inch (2.5 cm) and no less than 1/2 inch (1.25 cm). Turn valve clockwise to close.



**STEP 8** Position person on the cushion in their desired posture and have them maintain this position while air transfers through the ISOFLO Memory Control. Once the air transfer is complete, push the ISOFLO's "Red" knob toward the left, 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.

**NOTE:** Do not sit on an improperly inflated cushion. Under-inflation and over-inflation of the cushion sections reduce or eliminate the cushion's benefits and could increase risk to the skin and soft tissue. The cushion is most effective when there is 1/2 inch (1.25 cm) to 1 inch (2.5 cm) of air between all parts of the person and the chair.

## **COVERING YOUR PRODUCT:**

---

While a cover is not required, a ROHO cover is included with every standard cushion to help protect the cushion cells from protruding beyond the wheelchair seat and aiding in slide board transfers. Because the bottom of the cover is made of non-skid material, the cushion does not move in the chair.

**To cover your cushion**, follow these simple instructions:

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. Gently 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).
4. Carefully, 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).

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.

## **CLEANING/DISINFECTING YOUR PRODUCT:**

---

Cleaning and disinfecting are two separate processes. Cleaning must precede disinfection.

**To clean the cushion**, deflate cushion, close valves and place in large sink. Use a soft plastic bristle brush, sponge or washcloth to gently scrub air cells and spaces between. ROHO suggests using a liquid dishwashing or laundry detergent or other general-purpose cleaning product. For institutional cleaning, a general housekeeping disinfectant cleaner may be used. Air dry.

**To clean the cover**, machine wash in warm water. No bleach. Tumble dry on low heat.

**To disinfect**, use a germicidal product that meets infection control needs. ROHO suggests a disinfectant with tuberculocidal properties.



**For home disinfection**, use solutions of 1/2 cup liquid household bleach per quart of water (125 ml bleach to 1 liter of water). Keep the clean cushion wet with bleach solution for 10 minutes. Rinse thoroughly and air dry.

**For institutional cleaning**, most germicidal disinfectants are safe if used following the manufacturer's dilution directions. Product must be cleaned and disinfected between multiple patient usages.

**Sterilization:** ROHO highly discourages sterilization methods using temperatures greater than 200°F / 93°C. High temperatures accelerate aging and may cause damage to the cushion assembly. If institution protocol demands sterilization, open the valves and use the lowest temperature possible for the shortest time possible. Gas sterilization is preferable to steam autoclave, but neither is recommended. If steam autoclaving, make sure all valves are open.

**NOTICE:** Do not use oil-based lotions, lanolin, or phenolic-based disinfectants on your cushions as they may compromise the integrity of the neoprene.



## **TROUBLESHOOTING:**

---

**Not Holding Air:** Make sure all valves are closed tightly by turning valves clockwise. Visibly check for holes. With valves closed, immerse an inflated section in sink or tub of water and look for air bubbles.

If 'pin-hole,' sized holes are found, see "Minor Repairs" below. If large holes or other leaks are found, see "Repair Program" below.

**Uncomfortable/Unstable:** Make sure product is not over-inflated. (see Adjustment Instructions on pages 6-7). Make sure air cells and the cover's stretch top are facing "Up". Make sure cushioning product is not too big or too small for the chair. Allow the user to sit on the cushioning product 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 Chair:** Make sure non-skid bottom of the cushion cover is facing "DOWN".

## **MINOR REPAIRS:**

---

If your product develops a leak, use the repair patch kit that came with your product and follow the repair patch kit instructions.

## **REPAIR PROGRAM:**

---

If you cannot successfully repair your cushion, or if severe damage has occurred, you may return it for repair. Before returning your product to The ROHO Group for repairs, contact our Customer Support Department at 1-800-851-3449 toll free in the U.S.A. Outside the U.S.A., contact the nearest ROHO distributor.

A minimum repair charge plus shipping will be charged for all products not under warranty. Estimates for repair must be requested in writing and submitted with the product. If user fails to submit a written request for a repair estimate, The ROHO Group assumes authorization has been given and will proceed with the repair of the product and will ship it back C.O.D.

Outside of the U.S.A., contact your country's distributor. Check our web site, [www.therohogroup.com](http://www.therohogroup.com), for the latest list of ROHO international distributors.

## **LOANER PROGRAM (U.S.A. ONLY):**

---

The ROHO Group offers a loaner cushion while your cushion is being repaired. Loaner cushions require a deposit. Contact The ROHO Group at 1-800-851-3449.

## **RETURN POLICY:**

---

All returns require prior authorization from The ROHO Group and are subject to a restocking charge.

Outside of the U.S.A., contact your country's distributor or contact ROHO International at 1-618-277-9150 for your nearest distributor. Check our web site, [www.therohogroup.com](http://www.therohogroup.com), for the latest list of ROHO international distributors.

## **LIMITED WARRANTY:**

---

### **What is covered?**

ROHO, Inc. covers any defects in materials or workmanship of the product. Any substitutions of supplied hardware will void the warranty.

### **For how long?**

From the date the product was originally purchased:

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

### **What we will do.**

Within a reasonable amount of time after you return the product to us, we will repair any defect in material and workmanship and ship it back to you, all free of charge.

### **What we will not do.**

We will not repair free of charge a product if it has been misused, damaged by an accident, or damaged from " an act of Nature", e.g., flood, tornado, earthquake, fire.

### **What the customer must do.**

The customer must send the product to ROHO, Inc. with the original sales ticket or other evidence of date of purchase, and pay all delivery costs. It must be sent to: ROHO, Inc. 100 N. Florida Ave., Belleville, Illinois 62221-5429. An original sales ticket is not required if the warranty registration card attached to this Manual is completed, returned and is on file at ROHO, Inc. Failure to submit the original sales ticket or failure to have the warranty registration card in our files voids this warranty.

### **Questions.**

Call our Customer Support Department toll free from U.S.A. or Canada at (800)-850-7646. Outside of U.S.A. or Canada call your distributor of ROHO Customer Support Department at 1-618-277-9150.

### **Disclaimer**

Any implied warranties, including the MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE are also limited to the periods of time specified in "For how long?" from the date of original purchase and any action for a breach of such warranties or any express warranties herein must be commenced within this time. ROHO, Inc. shall not be responsible for any incidental or consequential damages with respect to economic loss or injuries to property, whether as a result of a breach of express or implied warranties, or otherwise. ROHO, Inc. will not be responsible for the results of careless handling, unreasonable or improper use of this product.

### **Your State Law 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 states do not allow limitations on how long implied warranties will last and some states 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 state to state.

A PRODUCT SUPPORTED BY:



100 North Florida Avenue, Belleville, IL 62221-5429 U.S.A.

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

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

Outside the U.S.A.: 618-277-9150, Fax 618-277-6518



MDSS GmbH  
Schiffgraben 41  
30175 Hannover, Germany



ROHO products are manufactured in facilities whose Quality Management Systems are certified to ISO 9001:2000 and ISO 13485:2003.