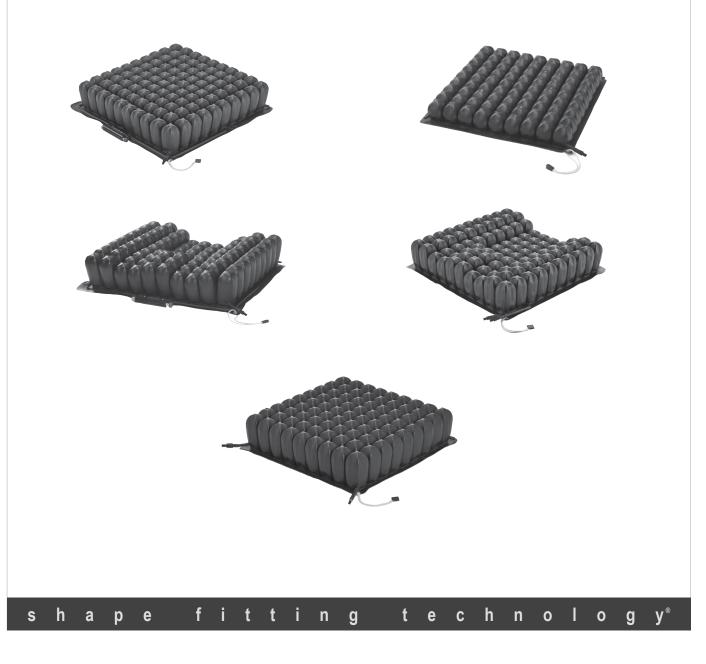
# permobil

# **ROHO® DRY FLOATATION® Cushions Operation Manual**

Single Compartment, Sensor Ready, ENHANCER, Quadtro SELECT, Contour SELECT



ROHO DRY FLOATATION Cushions Operation Manual - Single Compartment, Sensor Ready, ENHANCER, Quadtro SELECT, Contour SELECT

Contact	Information			Con	tents			
ROHO, Inc.			Intended Use Important Safety Information			2-3		
501 Sou	uth 74th St. , IL 62223 U.S.A.				Detail uct Specificatio	ins		4
J.S.A.: 00-851-	2440			Cush	nion Setup			4-6
	3449 551-3449			Troul	bleshooting			7
ustome	r Support:			Clea	ning and Disinf	fecting		7-8
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	.roho@permobil.com			Espa	iñol	9	Čeština	101
ermobil.				Fran		17	Eesti	109
				Deut	-	29	Ελληνικά	117
	rning			Italia		37	magyar	125
	that not following the specified proced y hazardous conditions resulting in seri		to		erlands	45	Íslenska	133
•		ious injuly.		Dans		53	Lietuviškai	141
Cau	Ition that not following the specified proced	ure could lead to	to	Sven		61	Polski	149
otentially	y hazardous conditions resulting in min			Nors		69	Română	157
lamage to the equipment or other property.			Suon		77	Slovenčina	165	
						85	Slovenščina	173
ncident Reporting					Türkee	181		
	ent of a serious incident or injury, conta s Glossary	act Customer Su	upport.	hrvat	ISKI	93	Türkçe	
		FITS	upport. Fits	hrvat	Size (width x de		FRONT Front of proc	duct
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# 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.

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.

# SELECT and ENHANCER Cushions:

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.

# Single Compartment Cushions:

ROHO LOW PROFILE Single Compartment Cushion (LOW PROFILE Single Compartment Cushion)

ROHO HIGH PROFILE Single Compartment Cushion (HIGH PROFILE Single Compartment Cushion)

ROHO HIGH PROFILE Single Compartment Cushion with Sensor Ready Technology (HIGH PROFILE Sensor Ready Cushion) The Sensor Ready Cushion is compatible with the Smart Check Cushion Monitoring Device.

Contraindication: Based on clinical, scientific or engineering evidence, these products may not be suitable for individuals who require

accommodation of pelvic asymmetry greater than is specified below, per product:

1 in. (2.5cm) - QUADTRO SELECT LOW PROFILE, ENHANCER, CONTOUR SELECT, LOW PROFILE Single Compartment Cushion 2 in. (5cm) - QUADTRO SELECT MID PROFILE

3 in. (7.5cm) - QUADTRO SELECT HIGH PROFILE, HIGH PROFILE Sensor Ready Cushion, HIGH PROFILE Single Compartment Cushion

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**

# Marnings:

- 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.
- DO NOT place obstructions between the individual and the cushion. The cushion and the cover MUST be compatible sizes and MUST be used as directed in this manual. Except for the compatible covers listed in "Product Specifications" in this manual, placement of any items between the individual and the cushion: 1) may reduce or eliminate the benefits of the cushion, increasing the risk to skin or to other soft tissue, and 2) may cause the individual to become unstable and vulnerable to falling.
- DO NOT use the cushion on top of, or in conjunction with, any other products or materials, except as indicated in this manual. Using non-compatible products or materials, whether inside or outside the cover: 1) may reduce or eliminate the benefits of the cushion, increasing the risk to skin or to other soft tissue, and 2) may cause the individual to become unstable and vulnerable to falling.

# Marnings, continued:

- If you are unable to perform any tasks described in this manual, seek assistance by contacting the clinician, equipment provider, distributor, or Customer Support.
- DO NOT expose the 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.
- The cushion surface will acclimate to the surrounding temperature. Take appropriate precautions, especially when the cushion will contact unprotected skin.
- Use caution when handling the cushion: Metal grommets on the corners may be a finger trap hazard.
- DO NOT use the cushion as a water flotation device (e.g., a Life Preserver). It will NOT support you in water.

# Important Safety Information, continued

# ▲ Cautions:

- Keep the cushion away from sharp objects.
- Changes in altitude may require adjustment to the cushion.
- 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 a pump, cover, or repair kit other than those compatible with the product.
- 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 the 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.
- Periodically, check the cover and components for damage and replace if necessary. See "Troubleshooting".
- DO NOT use any of the following as a handle for carrying or pulling the cushion: inflation valve(s), hose(s), quick disconnect (Sensor Ready Cushion), or the ISOFLO Memory Control (SELECT Cushion). Carry the cushion by the cushion base or by the carrying handle on the Standard/SELECT Cover. Using any other components to carry or pull the cushion may damage the product.

# Marnings - Motor Vehicle Transportation:

- Failure to pay attention to these warnings could result in severe injury to the individual in the wheelchair or to others.
- Whenever possible, transfer out of the wheelchair and into a manufacturer-installed vehicle seat without the cushion, and use the vehicle's crash-tested occupant restraint system.
- The cushion must be correctly and securely installed, used, and maintained according to the instructions and warnings provided by the cushion manufacturer.
- When the wheelchair is used as the vehicle seat, the cushion should only be used with wheelchair frames that are equipped with securement points specified in ANSI/RESNA WC-4:2017, section 19 (WC19) or ISO 7176-19, and that have been successfully crash tested on a wheelchair in the forward-facing position.
- The wheelchair with the cushion must be used with an effective wheelchair securement system and a properly positioned, crashtested pelvic and shoulder-belt restraint, or Wheelchair Tiedown and Occupant Restraint System (WTORS), following the manufacturer's instructions.
- If the cushion has been involved in an accident during transport, check the cushion for damage and replace if necessary. See the "Troubleshooting" section in this manual.
- For more information about safely transporting wheelchair users, refer to: http://wctransportation-safety.umtri.umich.edu/ridesafe-brochure.
- A ROHO QUADTRO SELECT Cushion was included in a wheelchair seating system that was dynamically tested by a third-party testing facility for use in a motor vehicle. The system tested meets all applicable criteria for wheelchair seating systems proposed in Section 5.1 of ANSI/RESNA WC-4:2017 Section 20 "Wheelchair Seating Systems for Use in Motor Vehicles.
- Test results apply to seating systems intended for use by adults and children with a total body mass greater than 23 kg (51 lb, or approximately 6 years of age) who are transported facing forward in their wheelchairs in all types of motor vehicles.
- To determine whether motor vehicle third-party testing has been performed with a specific seating system combination, refer to all provided equipment operation manuals or contact the equipment manufacturer.

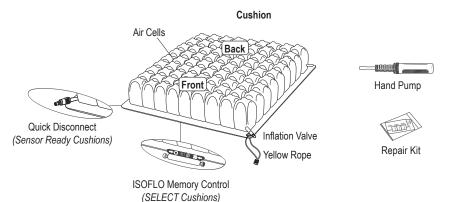
# Parts Detail

**Package contents:** cushion, cover\*; repair kit, hand pump, operation manual, limited warranty supplement, product registration card.

\* Instructions are provided with the cover.

To order replacement parts, contact the product provider or Customer Support.

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



### **Product Specifications**

### **Cushion Dimensions and Weights**

	SINGLE COMPARTMENT Cushions		QUADTRO SELECT Cushions			Contoured Cushions		
	LOW PROFILE	HIGH PROFILE**	LOW PROFILE	MID PROFILE	HIGH PROFILE	CONTOUR SELECT	ENHANCER	
Height	2¼ in. (5.5cm)	4¼ in. (10.5cm)	2¼ in. (5.5cm)	3¼ in. (8.5cm)	4¼ in. (10.5cm)	2¼ to 4¼ in. (5.5 to 10.5cm)	2¼ to 4¼ in. (5.5 to 10.5cm)	
Average Weight*	2.5 lbs. (1.1 kg)	3.25 lb. (1.5 kg)	2.5 lbs. (1.1 kg)	3.0 lbs. (1.4 kg)	3.25 lb. (1.5 kg)	3.5 lbs. (1.6 kg)	3.5 lbs. (1.6 kg)	
Min. Width	6 cells; 111/2 in. (29cm)	6 cells; 111/2 in. (29cm)	5 cells; 11 in. (28cm)	8 cells; 16 in. (41cm)	6 cells; 12¾ in. (32.5cm)	7 cells; 141/2 in. (36.5cm)	8 cells; 14¾ in. (37.5cm)	
Min. Depth	6 cells; 111/2 in. (29cm)	6 cells; 111/2 in. (29cm)	6 cells; 11¾ in. (30cm)	8 cells; 15¼ in. (38.5cm)	6 cells; 11¾ in. (30cm)	8 cells; 15¼ in. (38.5cm)	8 cells; 14¼ in. (37.5cm)	
Max. Width	13 cells; 23½ in. (59.5cm)	15 cells; 26¾ in. (68cm)	13 cells; 241/2 in. (62.5cm)	11 cells; 21¼ in. (54cm)	14 cells; 26¼ in. (67cm)	13 cells; 241/2 in. (62.5cm)	11 cells; 20 in. (50.5cm)	
Max. Depth	11 cells; 20 in. (50.5cm)	14 cells; 23½ in. (59.5cm)	12 cells; 22 in. (56cm)	11 cells; 201/4 in. (51.5cm)	14 cells; 23¾ in. (60cm)	12 cells; 22 in. (56cm)	11 cells; 20 in. (50.5cm)	

\* based on 9 x 9 cell cushions: 16½ in. x 16½ in. (42cm x 42cm) 1 in. = 2.54 cm = 25.4 mm

\*\* applies to the Sensor Ready HIGH PROFILE Cushion, except Max. Depth is 12 cells; 21<sup>3</sup>/<sub>4</sub> in (55cm).

Note: Contact Customer Support for specific cushion sizes.

Covers and Accessories Compatible of Not available in all markets. Contact Cus	with ROHO DRY FLOATATION Cushions: stomer Support.	<b>Cushion materials:</b> cushion: neoprene rubber, made without latex; inflation valve: Zytel; ISOFLO Memory Control: polypropylene,
<ul> <li>ROHO Heavy Duty Cushion Cover</li> <li>ROHO Standard Cushion Cover</li> <li>ROHO SELECT Cushion Cover</li> </ul>	- ROHO Planar Solid Seat Insert - ROHO Contour Base	polycarbonate, aluminum; Quick Disconnect: acetal Cover materials - Refer to the care label on the cover. Cushion expected lifetime: 5 years



IF YOU OWN A SMART CHECK: The Sensor Ready Cushion is equipped with Sensor Ready Technology and can be used with Smart Check, 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.

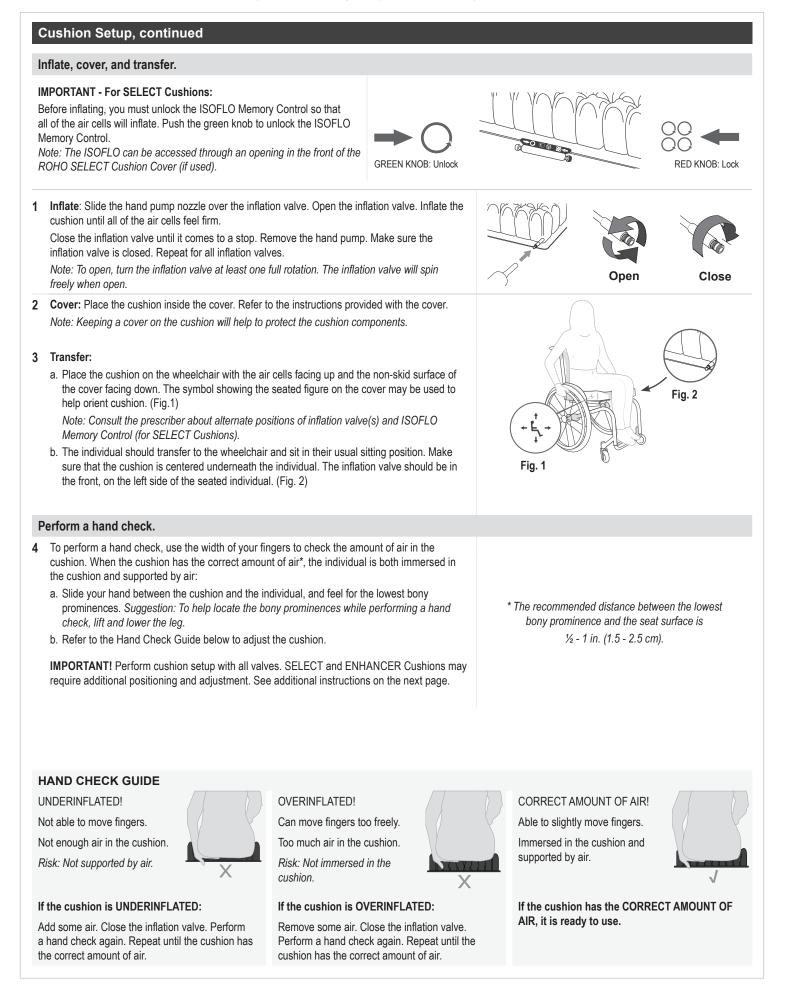
Note: If you own Smart Check, STOP HERE and refer to the cushion setup instructions provided with Smart Check.

### **Cushion Setup**

### Warnings:

- DO NOT use a product that is underinflated or overinflated, because 1) the product benefits will be reduced or eliminated, resulting in an increased risk to skin and other soft tissue, and 2) the individual may become unstable and vulnerable to falling. Carefully follow the instructions for inflation, placement and hand check. If the product does not appear to be holding air, or if you are not able to inflate or deflate the product, see "Troubleshooting". Immediately contact the equipment provider, 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.
- After setting up the cushion the first time, perform a hand check frequently, at least once a day. When the cushion is used by a different individual or in a different wheelchair, repeat cushion setup. Follow the hand check instructions in this manual.

Cushion Setup is continued on the next page.



# **Cushion Setup, continued**

### ENHANCER

1 Follow the instructions on the previous page for Cushion Setup. Explanation of inflation valves:

"A" - inflation valve for outer cells/abductor (air cells shown in white)

**"B"** - inflation valve for posterior contour section (air cells shown in gray)

2 Make sure that both inflation valves are closed when setup is complete.

### SELECT Cushion Adjustment for a Fixed or Flexible Pelvic Obliquity or Tilt

### Warnings - SELECT Cushions:

- Consult with the prescriber or a clinician about adjustment of inflation levels in SELECT Cushion compartments.
- After adjusting the SELECT Cushion, lock the ISOFLO as instructed. If the ISOFLO is not locked, the inflation level in each compartment will change.

### Fixed Pelvic Obliquity or Tilt:

# To adjust the QUADTRO SELECT Cushion or the CONTOUR SELECT Cushion to accommodate a fixed pelvic obliquity or a fixed posterior pelvic tilt:

- 1 Follow the Cushion Setup instructions on the previous page to make sure the cushion has the correct amount of air.
- 2 The individual should sit in their normal position while the air transfers through the ISOFLO Memory Control. When the air transfer is complete, push the red knob toward the locked position.
- 3 Perform a hand check for each compartment of the cushion again, as instructed on the previous page.

### Flexible Pelvic Obliquity or Tilt:

### To adjust the QUADTRO SELECT Cushion to correct a flexible pelvic obliquity or a flexible posterior pelvic tilt:

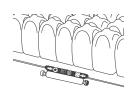
- 1 Follow the Cushion Setup instructions on the previous page to make sure the cushion has the correct amount of air.
- 2 Make sure the ISOFLO Memory Control is in the unlocked position
- 3 Follow the instructions below.

### Flexible pelvic obliquity:

- a) Manually correct to the desired pelvic position. (For example, if the left side of the pelvis is lower than the right side, either have the individual lean toward the right, or place downward pressure on the right hip until the desired position is achieved.)
- b) Push the red knob toward the locked position.
- c) Perform a hand check as instructed on the previous page.

### Flexible posterior pelvic tilt:

- a) Check to make sure there is approximately 1" (2.5 cm) of space between the individual's bony prominences and the seating surface. Add more air if needed.
- b) Lift both of the individual's knees to put more downward pressure on the pelvis and to force air to the front of the cushion. This will create a "well" (a lower, concave area) for the pelvis and will help prevent the pelvis from sliding forward.
- c) Push the red knob toward the locked position.
- d) Perform a hand check as instructed on the previous page.







For additional assistance, contact t	he equipment provider, distributor, or Customer Support.
The cushion is not holding air.	Inflate the cushion. Inspect the quick disconnect (Sensor Ready Cushion), the inflation valve(s), and hose(s) for damage. Confirm that the inflation valve(s) are 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 the product. For damage to the inflation valve, quick disconnect or hose, 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(s) are open. Inspect the inflation valve(s) and hose(s) for damage. When inflating SELECT Cushions: Confirm that the green knob of the ISOFLO Memory Control is pushed toward the center of the ISOFLO in the UNLOCKED position so that all chambers will inflate. For the Sensor Ready Cushion: also check the quick disconnect for damage.
The cushion is uncomfortable or unstable.	<ul> <li>Make sure that the cushion is not underinflated or overinflated (See Cushion Setup).</li> <li>The cushion cells and the top of the cover should face up.</li> <li>The cushion should be centered beneath the individual.</li> <li>The cushion should be properly sized to the individual and the wheelchair.</li> <li>Allow the individual at least one hour to adjust to the cushion.</li> </ul>
The cushion slides on the wheelchair.	Make sure that the non-skid bottom of the cushion cover faces 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. Refer to the instructions provided with the cover.
A component is damaged.	Contact Customer Support for a replacement.

# **Cleaning and Disinfecting**

Note: For cover care instructions, refer to the manual provided with the cover.

# Marnings:

- DO NOT allow water or cleaning solution to enter the cushion. Make sure the inflation valve(s) are closed.
- Sensor Ready Cushion: 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.
- Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. If the product becomes soiled, or between use by different individuals: clean, disinfect, and check the product for proper functioning.
- Clean the product regularly and when it becomes soiled.
- 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(s) and use the lowest possible sterilizing temperature, but not to exceed 70°C (158°F), for the shortest time possible. DO NOT autoclave.

# ▲ Cautions:

- 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.
- DO NOT expose to direct sunlight.

Recommendation: When washing by hand, use room-temperature water.

Note: Deflated air cells may be easier to thoroughly clean. To deflate the air cells: with the inflation valve(s) open, roll up and/or compress the cushion, and then completely close the inflation valve(s).

### Hand Wash and Hand Disinfect the Cushion (Preferred Method)

Hand Wash the Cushion: Remove the cover, close the inflation valve(s), 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.

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.



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

# Cleaning and Disinfecting, continued

# Machine Wash and Disinfect the Cushion

IMPORTANT: 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.

# ✓ Warnings:

- DO NOT allow water or cleaning solution to enter the cushion. Make sure the inflation valve(s) are closed.
- Sensor Ready Cushion: 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.
- 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(s). 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.
- 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, <u>close the inflation valve</u>.
- 4) Inspect for any sharp edges in the washing machine that may damage the cushion.

### Machine Wash the Cushion:

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

Machine Disinfect the Cushion: Follow the machine washing instructions and use hot water 60°C (140°F). Use biocide (refer to the manufacturer instructions). Rinse with clean water.

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

**Drying the Cushion:** 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.

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

### **Care Symbols**

	Hand wash.	1	Line dry in the shade.	$\sum_{1:9}$ Bleach (1 part bleach: 9 parts water).	Machine wash, warm, gentle.
60C	Machine wash hot, normal, at the temperature shown.		Use a handheld dryer.		

### Storage, Transport, Disposal and Recycling

Storage or Transport: Clean and disinfect the product. Open the inflation valve(s). Deflate the product. Place in a container that protects the product from moisture, contaminants and damage. After storing or transporting, inspect the product to ensure it was not damaged (see "Troubleshooting"), and follow instructions to prepare the product for use.

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. At the end of its useful life, treat as healthcare waste and dispose of according to local healthcare-waste guidelines. Incinerate with other healthcare waste. Incineration must be performed by a qualified, licensed waste management facility.

Recycling: Contact a local recycling agency to determine recycling options for the product.

### **Limited Warranty**

Limited Warranty Term from the date the product was originally purchased: SELECT Cushions: 36 months; all other DRY FLOATATION products: 24 months. The warranty does not apply to punctures, tears, burns, or misuse. See also the Limited Warranty supplement provided with the product, or contact Customer Support.

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

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