

ROHO® DRY FLOATATION® Wheelchair Cushions
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.

Table of Contents

Intended Use	2
Important Safety Information	2-3
Parts Detail	4
Cushion Adjustment	5-7
Cover Removal and Replacement	8
Troubleshooting	8
Cover and Cushion Care	9-10
Product Specifications	
Storage, Disposal and Recycling	11
Limited Warranty	
Español	12
Français	23
Deutsch	38
Italiano	49
Nederlands	60
Dansk	71
Svenska	82
Norsk	93
Suomi	104
Português	115



ROHO, Inc., 100 North Florida Avenue, Belleville, Illinois 62221-5429 U.S.A.
U.S.A.: 800-851-3449 • Fax: 888-551-3449 • Customer Support: orders.roho@permobil.com
Outside the U.S.A.: 618-277-9150 • Fax: 618-277-6518 • intlorders.roho@permobil.com
permobilus.com

Products may be covered by one or more U.S. and foreign patents and trademarks, including ROHO®, DRY FLOATATION®, ISOFLO®, Yellow Rope®, shape fitting technology®, CONTOUR SELECT®, ENHANCER®, QUADTRO SELECT®, HIGH PROFILE®, MID PROFILE™, and LOW PROFILE®. Zytel® is a registered trademark of DuPont.

Product information is changed as needed; current product information is available at permobilus.com.

ROHO, Inc. is part of Permobil Seating and Positioning.

© 2007, 2019 Permobil

Rev. 2019-07-02

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.

- 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)

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



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 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.
- 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.

Important Safety Information, continued



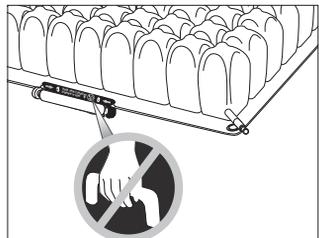
Warnings, continued

- **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** place any obstructions between the individual and the cushion. **USE ONLY** a compatible cover with the cushion; placing any other item directly under the individual, whether inside or outside the cover, will make the cushion less effective.
- **DO NOT** use your cushion as a water flotation device (e.g., a Life Preserver). It will NOT support you in water.
- Use caution when handling the cushion: Metal grommets on the corners may be a finger trap hazard.
- **DO NOT** expose your 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.
- If you are unable to perform any tasks described in this manual, seek assistance.



Cautions

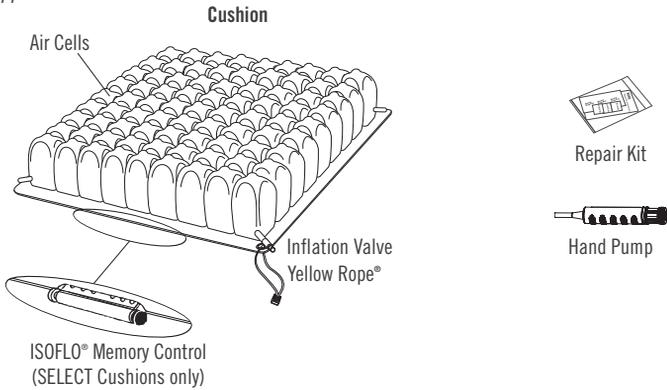
- Using a pump, cover or repair kit other than those compatible with your product may void your product's warranty.
- **DO NOT** modify the cushion or any components. Doing so may result in damage to the product and will void the warranty.
- **DO NOT** allow your cushion to come into contact with oil-based lotions or lanolin. They may degrade the material.
- 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 your cushion away from sharp objects.
- 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 the cover and components for damage and replace if necessary.
- **DO NOT** use an inflation valve or ISOFLO Memory Control as a handle; the product may tear. Carry by the cushion base or by the carrying handle on the cover.



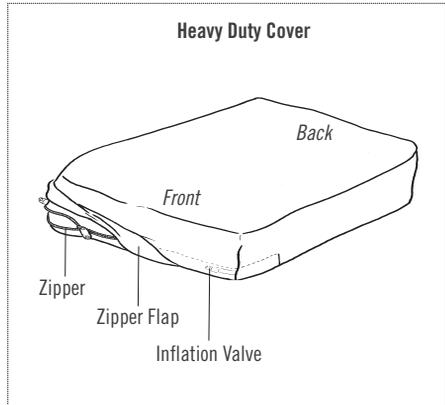
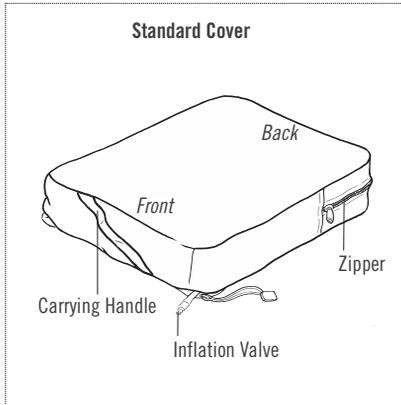
This symbol means, "DO NOT use the ISOFLO Memory Control as a handle; the product may tear."

Parts Detail

Package Contents: cushion, cover, repair kit, hand pump, operation manual, limited warranty supplement, product registration card. To order replacement parts, contact your product provider or Customer Support.



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



Materials:

Cushion: neoprene rubber; made without latex

Inflation valve: Zytel

ISOFOLO Memory Control: polypropylene, polycarbonate, aluminum

Standard Cover: two-way stretch top, spacer fabric sides, with a zipper located in the back of the cover; and a non-skid bottom. Refer to cover care label for material content and for compliance to flammability requirements.

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. Refer to cover care label for material content and for compliance to flammability requirements.

Cushion Adjustment

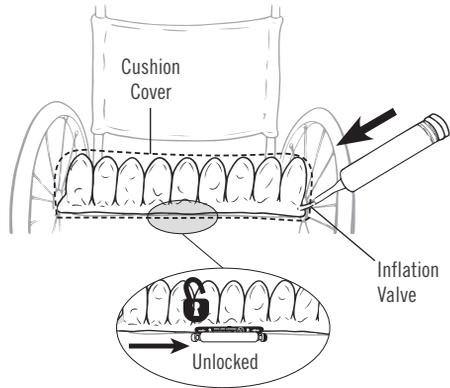


Important Safety Information:

- 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 **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.

1. Inflate the cushion:

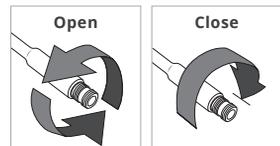
- a. Place the cushion in the wheelchair with the air cells facing up and the non-skid surface of the cover facing down. Consult your prescriber about alternate positions of inflation valves and ISOFLO Memory Control (for SELECT Cushions).



- b. For SELECT Cushions:
Before inflating, you must open the ISOFLO Memory Control so that all of the air cells will inflate. Push the ISOFLO green knob toward the unlocked position.

- c. Slide the hand pump nozzle over the inflation valve. Open the inflation valve, at least one full rotation.

Note: The inflation valve will spin freely when open.



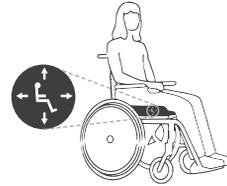
- d. Inflate until all of the air cells feel firm. Close the inflation valve until it comes to a stop. Remove the hand pump.
Make sure the inflation valve is closed.
- e. Repeat cushion inflation for all valves.

Cushion Adjustment, continued

2. Adjust the cushion:

After overinflating the cushion, adjust to the Proper Cushion Inflation Setting:

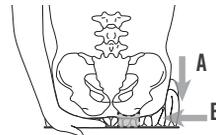
- a. The individual should sit in the chair in their usual position. The cushion should be centered beneath the individual.
- b. Slide your hand between the cushion and the individual. Lift the leg slightly and feel for the lowest bony prominence, and then lower the leg to a sitting position.
- c. Open the inflation valve to remove air, keeping your hand beneath the individual's lowest bony prominence.
- d. Release air until you are barely able to move your fingertips. Close the valve. Make sure the inflation valve is closed.
- e. Repeat cushion adjustment for all valves.



The seated figure shows product orientation.

Proper Cushion Inflation Setting

 = ½" - 1" (1.5 cm - 2.5 cm)

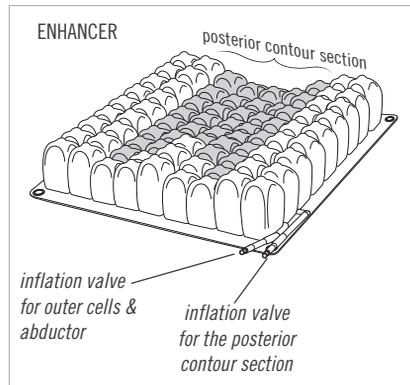


A) "sink down" into the cushion and
B) "float" above the cushion base.

To adjust the ENHANCER:

After overinflating the cushion, adjust to the Proper Cushion Inflation Setting:

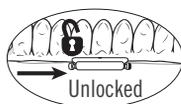
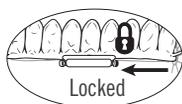
- 1) Outer cells/abductor: Open the inner valve and release air to adjust for comfort and positioning. Close the valve.
- 2) Posterior contour section: Slide your hand between the cushion and the individual and feel for the lowest bony prominence. Open the outer valve and release air until you are barely able to move your fingertips. Close the valve.
- 3) Make sure the inflation valves are closed.



To adjust Dual Compartment Cushions: For individuals with a pelvic obliquity, first adjust the side with the deepest bony prominence. For front-to-back positioning, adjust the rear section first. Always re-check adjustment for each section.

To adjust SELECT Cushions: See the next page.

Cushion Adjustment, continued



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 all cushion adjustment instructions in this operation manual to make sure the cushion is adjusted to a Proper Cushion Inflation Setting.
- 2) The individual should sit in their normal position while the air transfers through the ISOFLO Memory Control.
- 3) When the air transfer is complete, push the red knob toward the locked position.
- 4) Re-check each compartment of the cushion to ensure a Proper Cushion Inflation Setting.

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

- Follow all cushion adjustment instructions in this operation manual to make sure the cushion is adjusted to a Proper Cushion Inflation Setting.
- Make sure the ISOFLO Memory Control is in the unlocked position
- Follow the instructions below.

Flexible pelvic obliquity:

- 1) 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.)
- 2) Push the red knob toward the locked position.
- 3) Re-check each compartment of the cushion to ensure a Proper Cushion Inflation Setting.

Flexible posterior pelvic tilt:

- 1) 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.
- 2) 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.
- 3) Push the red knob toward the locked position.
- 4) Re-check each compartment of the cushion to ensure a Proper Cushion Inflation Setting.

Cover Removal and Replacement

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

Note: Keeping a cover on your cushion will help to protect the cushion components. A cover will also help to keep the air cells together, which may aid in slide board transfers.

Cover Removal: Unzip and remove the cover from the cushion.

Cover Replacement: Turn the cover and the cushion upside down: The non-skid material should face up and the zipped opening should face you. The air cells should face down. Insert the cushion into the cover, following the instructions below.

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



Standard Cover Instructions	Heavy Duty Cover Instructions
The back of the cushion should face the zipper.	The front of the cushion (the inflation valve) should face the zipper.
Make sure all four corners of the cushion extend through the corner openings in the cover. Carefully pull the inflation valve and the Yellow Rope through the openings.	Tuck the inflation valve and the Yellow Rope inside the cover.
Close the zipper completely. Turn the cushion over so the air cells face up. The cushion should lie flat inside the cover with the non-skid material on the bottom and all cells covered.	Close the zipper completely. Turn the cushion over so the air cells face up. The cushion should lie flat inside the cover with the non-skid material on the bottom and all cells covered.

Troubleshooting

For additional assistance, contact your equipment provider, distributor, or Customer Support.

Not Holding Air	Inflate the cushion. Inspect the inflation valve(s) and hose(s) for damage. Confirm that the inflation valve is 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 your product. For inflation valve or hose damage, 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 is 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.
Uncomfortable or Unstable	Confirm that: <ul style="list-style-type: none"> - the cushion is not underinflated or overinflated (See Cushion Adjustment.) - the cushion cells and the top of the cover are facing up. - the cushion is centered beneath the individual. - 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 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.

Cushion and Cover Care



Warnings:

- **Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check the product for proper functioning.**
- **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 and use the lowest possible sterilizing temperature, but not to exceed 70°C (158°F), for the shortest time possible. DO NOT autoclave.**

Cover Care

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

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.



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, then rinse thoroughly. Or machine wash in hot water (60°C). Tumble dry low.



Cushion Care



Warning: Inflation valve(s) **MUST** be closed to make sure that water does not enter the product during cleaning or disinfecting.



Caution: 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.



Caution: DO NOT expose to direct sunlight.

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.



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

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.



Cushion and Cover Care, continued

Machine Wash and Disinfect the Cushion



Warnings:

- Inflation valve(s) **MUST** be closed to make sure that water does not enter the product during cleaning or disinfecting.
- 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.
- 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.
- 3) 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, close the inflation valve.
- 4) Inspect for any sharp edges in the washing machine that may damage the cushion.

Machine Wash the Cushion:

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



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

Machine Disinfect the Cushion:

Follow the machine washing instructions and use hot water 60°C (140°F). Use biocide (refer to the manufacturer instructions). Bleach with care: Only use a dilution of 1 part household liquid bleach per 9 parts water. Rinse with clean water.



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.



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

Care Symbols

 Hand wash cold, maximum temperature shown.	 Machine wash gentle, cold, maximum temperature shown.	
 Machine wash hot, normal, maximum temperature shown.	 Machine wash gentle, warm, maximum temperature shown.	
 Hand wash.	 Line dry in the shade.	 Tumble dry low.
 Use a handheld dryer.	 Bleach (1 part bleach: 9 parts water)	

Product Specifications

STANDARD CUSHION DIMENSIONS AND WEIGHTS:

Cushion	Height	Average Weight*
LOW PROFILE Single Compartment Cushion	2¼ in. (5.5 cm)	2.5 lbs. (1.1 kg)
LOW PROFILE Dual Compartment Cushion	2¼ in. (5.5 cm)	2.5 lbs. (1.1 kg)
QUADTRO SELECT LOW PROFILE	2¼ in. (5.5 cm)	2.5 lbs. (1.1 kg)
MID PROFILE SINGLE Compartment Cushion	3¼ in. (8.5 cm)	3.0 lbs. (1.4 kg)
MID PROFILE Dual Compartment Cushion	3¼ in. (8.5 cm)	3.0 lbs. (1.4 kg)
QUADTRO SELECT MID PROFILE	3¼ in. (8.5 cm)	3.0 lbs. (1.4 kg)
HIGH PROFILE Single Compartment Cushion	4¼ in. (10.5 cm)	3.25 lbs. (1.5 kg)
HIGH PROFILE Dual Compartment Cushion	4¼ in. (10.5 cm)	3.25 lbs. (1.5 kg)
QUADTRO SELECT HIGH PROFILE	4¼ in. (10.5 cm)	3.25 lbs. (1.5 kg)
CONTOUR SELECT	2¼ to 4¼ in. (5.5 to 10.5 cm)	3.5 lbs. (1.6 kg)
ENHANCER	2¼ to 4¼ in. (5.5 to 10.5 cm)	3.5 lbs. (1.6 kg)

*Note: The average weights are based on 9 x 9 cell (16½ in. x 16½ 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	11½	29.0	6	11½	29.0	13	23½	59.5	11	20	50.5
LOW PROFILE Dual Compartment Cushion	6	11½	29.0	6	11½	29.0	11	20	50.5	11	20	50.5
QUADTRO SELECT LOW PROFILE	5	11	28.0	6	11¾	30.0	13	24½	62.5	12	22	56.0
MID PROFILE Single Compartment Cushion	7	13¼	33.5	7	13¼	33.5	11	20	50.5	11	20	50.5
MID PROFILE Dual Compartment Cushion	8	14¾	37.5	9	16½	42.0	8	14¾	37.5	9	16½	42.0
QUADTRO SELECT MID PROFILE	8	16	41.0	8	15¾	38.5	11	21¾	54.0	11	20¾	51.5
HIGH PROFILE Single Compartment Cushion	6	11½	29.0	6	11½	29.0	15	26¾	68.0	14	23½	59.5
HIGH PROFILE Dual Compartment Cushion	6	11½	29.0	6	11½	29.0	11	20	50.5	12	21¾	55.0
QUADTRO SELECT HIGH PROFILE	6	12¾	32.5	6	11¾	30.0	14	26¼	67.0	14	23¾	60.0
CONTOUR SELECT	7	14½	36.5	8	15¾	38.5	13	24½	62.5	12	22	56.0
ENHANCER	8	14¾	37.5	8	14¾	37.5	11	20	50.5	11	20	50.5

Note: Refer to Customer Support for specific cushion sizes.

Cushion expected lifetime: 5 years

Storage, Disposal and Recycling

Storage: Clean and disinfect the product before storing. Open the inflation valve(s). Deflate the product (detach any product sections). Store the product in a container that protects the product from moisture, contaminants and damage.

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.

Recycling: Contact a local recycling agency to determine recycling options for the product. For more recycling information, contact Customer Support.

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, nor does it apply to the removable cover. See also the Limited Warranty supplement provided with your product, or contact Customer Support.

permobil | SEATING + POSITIONING

Mailing/Shipping Address:

1501 South 74th Street, Belleville, IL 62223-5900 USA

Administrative Offices:

100 N. Florida Avenue, Belleville, IL 62221-5429 USA

U.S.: 800-851-3449 • Fax 888-551-3449

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

permobilus.com



MDSS GmbH
Schiffgraben 41
30175 Hannover, Germany

