



# BATH DECKCHAIR AKVOLITO™



USER MANUAL





Manufacturer takes responsibility for proper usage of the device only when the product was purchased from qualified **REH4MAT Sławomir Wroński** employee or at specialized medical store!

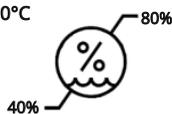
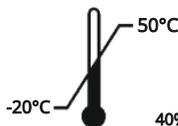
**REH4MAT Sławomir Wroński** reserve the right to introduce technical and trading changes in the content of the instruction without warning.



Product marked with the CE sign is Class I medical device, of rule 1, consistent with the requirements of Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices.



**REH4MAT Sławomir Wroński** introduced quality management system ISO 13485 regarding production, sales and service. The system is certified by Det Norske Veritas.





# CONTENTS

1. The purpose of user manual.....	5
2. Indications and contraindications for use.....	5
3. General characteristics of bath deckchair.....	6
3.1 Standard equipment.....	6
3.2 Accessories.....	6
4. Size table.....	7
5. Detailed description of how to apply the lounge upholstery.....	9
6. The adjustment of bath deckchair.....	12
7. Accessories.....	15
7.1 <b>AKL_807</b> Thigh wedge.....	15
8. How to fix BodyMap® mattress on bath deckchair.....	15
9. The use of product.....	18
10. Safety rules.....	19
11. Maintenance and cleaning.....	21
12. Labelling.....	23



## INTRODUCTION

Bath chair **AKVOLITO™** is simple and innovative solution that is helpful while taking care of disabled people.

Bath chair **AKVOLITO™** consists of solid frame that is made of aluminium and, moreover, it protects from adverse effects of water. Furthermore, frame is equipped with foam covers that protect bathtub or kids bath tub from scratching. Unique construction of frame makes it possible to adjust the tilt angle of four areas namely footrest, seat, backrest and headrest. Moreover, seat can be adjusted at any height.

It is highly beneficial due to the fact that product is correctly adjusted to user's needs which is very helpful while e.g. washing little user's hair. Concerning upholstery, it is made of impermeable net.

As far as bath deckchair **AKVOLITO™** is concerned, its upholstery and frame are available in different colours – it depends on its size.



Before using the product, user is obliged to familiarize himself/herself with user manual.

Remember that complying with guideline is highly important. It assures safety and extends durability as well as aesthetics of the device.

## 1. THE PURPOSE OF USER MANUAL



Before using the product, user is obliged to familiarize himself/herself with user manual.

This manual contains information necessary for correct use of **AKVOLITO™** bath deckchair for children, preparation of the device before the use, maintenance and cleaning as well as the guarantee conditions.

Manual should be kept in an easy accessible place. The manual is addressed to the parents, doctors and physicaltherapists who take direct care of handicap children.

Please, remember that following the rules of the manual enables safe use of the product, its extended life and esthetics.

## 2. INDICATIONS AND CONTRINDICATION FOR USE

### **Intended purpose of the product with a defined target group:**

Disabled people (children / adolescents) with cerebral palsy, muscular dystrophy, spina bifida, spinal cord injuries and neurological deficits.

### **Indications for use:**

- Cerebral palsy (CP);
- Muscular dystrophy;
- Spina bifida;
- Other neurological diseases with movement deficits in the form of paralysis and paresis of the limbs and / or trunk.

### **Contraindications for use:**

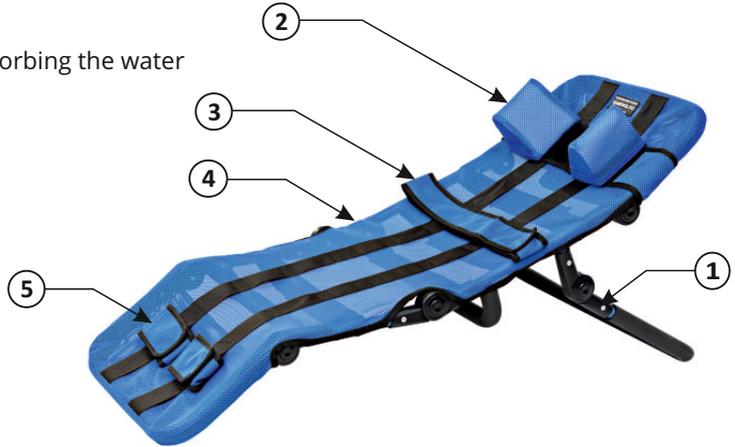
- Incorrect positioning of the person with the use of bathing products may lead to deformation of the joints, and long-term keeping of the person in one position significantly increases the risk of pressure ulcers.
- Max. user's weight: size baby - 25 kg, size 0 - 30 kg, size 1 - 50 kg, size 2 mini- 50 kg, size 2 - 60 kg, size 3 - 70 kg, size 4 - 80 kg.



### 3. GENERAL CHARACTERISTICS OF BATH DECKCHAIR

#### 3.1 STANDARD EQUIPMENT

- 1. Frame
- 2. Head support
- 3. Trunk support
- 4. Upholstery not absorbing the water
- 5. Leg support



#### 3.2 ACCESSORIES



Fixing kit for BodyMap® K mattress



BodyMap® K mattress



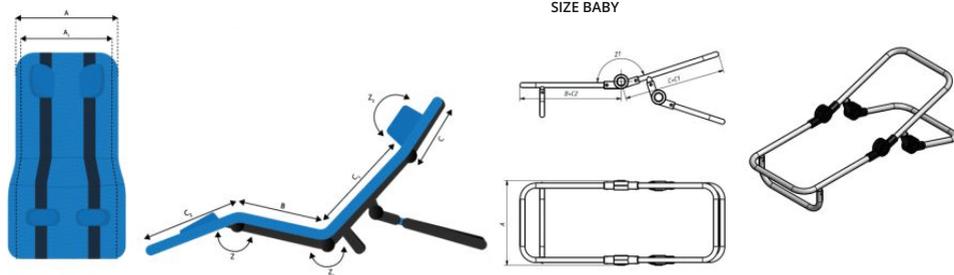
Mobile waterproof base to bath products for disabled children AKVO™



Thigh wedge



## 4. SIZE TABLE



Symbol	Measurement	Unit	Size Baby	Size 0	Size 1	Size 2 mini	Size 2	Size 3	Size 4
A	product width	[cm]	35	35	40	35	40	45	50
A <sub>1</sub>	usable width	[cm]	26	26	31	26	31	36	41
B	seat depth	[cm]	-	22	25	28	28	33	35
C	headrest height	[cm]	-	19	22	26	26	30	33
C <sub>1</sub>	backrest height	[cm]	-	28	33	37	37	43	50
C <sub>2</sub>	lower leg length	[cm]	-	24	28	31	31	36	41
B+C <sub>2</sub>	seat depth with lower leg length	[cm]	41	46	53	59	59	69	79
C+C <sub>1</sub>	backrest height with head support	[cm]	41	47	55	63	63	73	83
Z	footrest angle (relatively to the seat)	[°]	-	90 - 180	90 - 180	90 - 180	90 - 180	90 - 180	90 - 180
Z <sub>1</sub>	backrest tilt angle (relatively to the seat)	[°]	90 - 180	90 - 180	90 - 180	90 - 180	90 - 180	90 - 180	90 - 180
Z <sub>2</sub>	headrest angle (relatively to the backrest)	[°]	-	144 - 234	144 - 234	144 - 234	144 - 234	144 - 234	144 - 234
	max. user weight**	[kg]	25	30	50	50	60	70	80
W	indicative user height*	[cm]	55 - 75	< 80	< 90	< 105	< 105	< 120	< 160

Note: Measurement tolerance range is +/- 1 cm / ½ in.

\*This measurement cannot be the main parameter while choosing the product size.

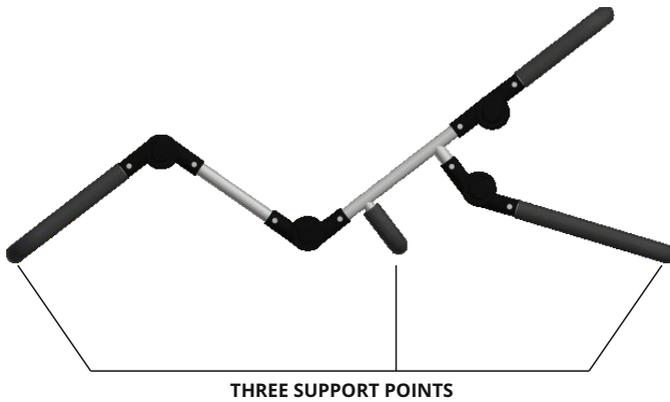
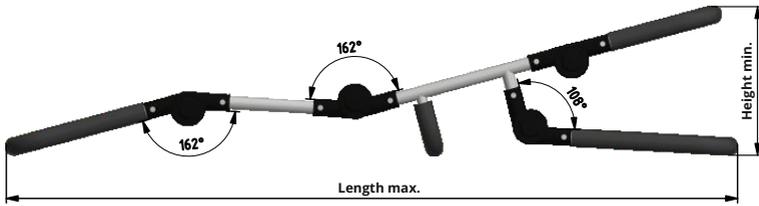
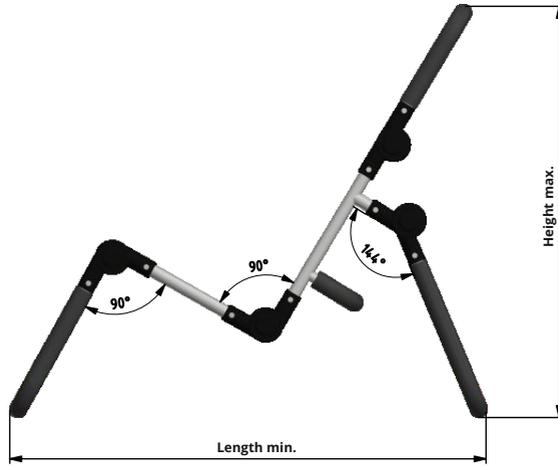
\*\*ATTENTION: The bath chair must be placed on three support points with the ground. If the bath chair is resting on only two of the outermost support points, the maximum weight allowed is 70% of the maximum weight (not applicable to the "Baby" size).

Measurement	Unit	Size Baby	Size 0	Size 1	Size 2 mini	Size 2	Size 3	Size 4
width	[cm]	35	35	40	35	40	45	50
width after folding	[cm]	35	35	40	35	40	45	50
length***	[cm]	74 - 82	68 - 97	76 - 113	87 - 124	87 - 124	97 - 145	107 - 164
length after folding	[cm]	41	50	60	67	67	76	86
height***	[cm]	18 - 51	24 - 57	24 - 63	26 - 68	26 - 68	27 - 75	27 - 81
height after folding	[cm]	30	23	23	23	23	23	23
weight	[cm]	2,2	3	3,5	3,4	3,8	4,4	5

Note: Measurement tolerance range is +/- 1 cm / ½ in.

Note: Approximate values, depending on the product configuration.

\*\*\*Minimum and maximum dimensions according to attached drawings on page 8.





# 5. DETAILED DESCRIPTION OF HOW TO APPLY THE LOUNGER UPHOLSTERY

HEAD SUPPORT



FRAME OF BATH DECKCHAIR



UPHOLSTERY

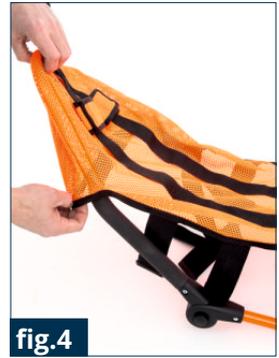
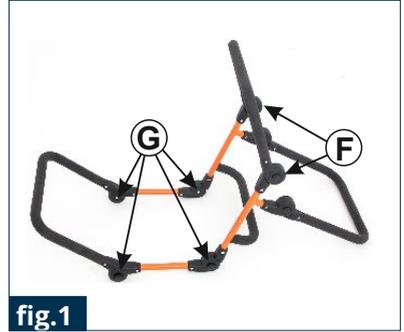
TRUNK SUPPORT





To put on the upholstery on the frame first you must:

- press joints (G and F) at the same time adjust the angle between the backrest and the footrest (according to fig.1),
- insert the upper part of upholstery on the frame of the back support (fig. 2, 3),
- push the bottom part of the upholstery onto the footrest frame (fig. 4).



Fasten all straps with velcro closures from the underside of the lounger (fig. 5- 7). Please keep in mind that the straps should cover the seat frame.





Lounger with upholstery set to the usable position (fig.8).

To mount the head stabilizer you must:

- choose the appropriate height of the stabilizer on the backrest of the lounger,
- next using straps with velcro closures fasten the stabilizer on the back of the lounger (fig. 9, 10).



fig.8



fig.9



fig.10



fig.11



## 6. THE ADJUSTMENT OF BATH CHAIR

It is necessary to use special joints so as to adjust **AKVOLITO™** bath deckchair for children. It is possible to adjust following parts of **AKVOLITO™**:

### HEAD SUPPORT



### SEAT AS WELL AS BACKREST



### FOOTREST





## THE TILT ANGLE OF DECKCHAIR



Every standard **AKVOLITO™** bath deckchair is equipped with head support, trunk stabilizing belt and feet stabilizing belts. All these parts secure the user while using the product. Please follow these steps mentioned below to use the product:

**STEP 1.** Fix belt with head stabilizing pelottes at chosen height. Belt should be fastened at the back of chair by means of Velcro tapes. The distance of pelottes can be adjusted.



**STEP 2.** Fix trunk stabilizing belt. Belt is fastened with Velcro tapes and it can be fixed at any height. It is necessary to thread belt through grommets which are situated on either backrest or seat. Next, fasten the belt.



**STEP 3.** Fix feet stabilizing belts. Belts are fastened with the aid of Velcro tapes and they can be fixed at any height. It is necessary to thread belts through grommets which are situated on footrest. Next, fasten belts.



## UPHOLSTERY

Tension of upholstery can be easily adjusted by straps with Velcros that are located under the deckchair.



Do not make adjustments while there is a user on the chair, as doing so may damage the regulators.



## 7. ACCESSORIES

### 7.1 AKL\_807 THIGH WEDGE



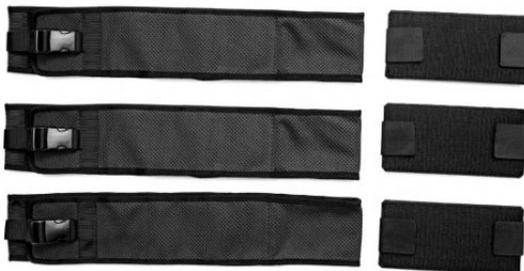
## 8. HOW TO FIX BODYMAP® MATTRESS ON BATH DECKCHAIR

All **BodyMap®** cushions are waterproof and highly thanks to which it is recommended to use them together with **AKVOLITO™** bath deckchair so as to enhance upright standing and secure the patient while performing nursing activities.

Please follow steps mentioned below to fix mattress:

**STEP 1.** Disassemble head support, trunk stabilizing belt and feet stabilizing belts.

**STEP 2.** Fix **BodyMap®** mattress with the aid of fastening set that is included in optional equipment for **AKVOLITO™** bath deckchair. Each set is equipped with pelvic-thigh belt, two wide belts that stabilize the user and three Velcro tapes that are used to place **BodyMap®** mattress on seat.





Before fixing the mattress on the both seat, it is necessary to assemble special Velcros in lower, medium and upper part of the seat. Self-adhesive surface of **BodyMap®** mattress makes it possible to fix it quickly on bath deckchair.



**STEP 3.** Then fix belts stabilizing the patient. Belts are fastened by Velcro tapes and buckle. Below you can see the conect assembling process.





**STEP 4.** To fix mattress it is necessary to unfasten stabilizing belts. Place mattress on **AKVOLITO™** bath deckchair in a way that its self-adhesive surface touches bath seat's upholstery. Next, place the patient on cushion and fasten stabilizing belts. Please remember that **BodyMap®** mattress has to be shaped according to user's body because only then cushion correctly stabilizes the user both in sitting. Please familiarize yourself with the guidelines concerning shaping the cushions which are included in user manual for **BodyMap®** system.





## 9. THE USE OF PRODUCT



The product has to be used with compliance to guidelines included in this user manual and with trained person.

Before every using, there is necessary to prepare the user and the device!

Please follow steps below before the use of product:

- Unfold the device,
- Place the device on even surface, without slopes,
- Make sure that all parts are serviceable, correctly mounted and stable,
- Adjust bath seat and head support to user's measurements,
- Unfasten trunk stabilizing belt and feet stabilizing belts,
- Place the user in bath seat and secure him/her by set of belts from standard equipment.

If product is used together with **BodyMap®** mattress, first fix cushion on bath chair with the set of fastening and then shape it according to user's body.



Our device works correctly only when the product is adjusted according to user's height as well as weight. Remember to take all these measurements into account while purchasing the product. Correct adjustment of bath chair is the most important thing due to the fact that only then the product is safe. It is forbidden to force child to keep specific position because he/she will feel uncomfortable and it may lead to wrong posture.

Before using, remember to make sure that all belts and locking are correctly adjusted and fastened.



## 10. SAFETY RULES



**AKVOLITO™** bath deckchair for children should be used in compliance with guidelines described in instruction manual.

It is highly important to consult either doctor or physiotherapist in order to make right decision concerning the choice of low bath deckchair and its size. It is essential to familiarize with the guidelines described in instruction manual before using the device.

1. Before using the product, it is essential to make sure that:

- make sure that there are no damages or different faults which could endanger user's life. Make sure that all parts are operating correctly and are properly mounted. Moreover, make sure that there are no cracks as well as deformities,
- make sure that all screws, nuts and other threaded, glued and sewn parts are firmly tightened;
- make sure that buckles are operating correctly;
- always use stabilizing belts: Velcro tapes from these belts has to overlap min. 8cm;
- adjust the product to user's measurements as well as needs;
- secure the user with the aid of head support, trunk stabilizing belt and feet stabilizing belts. It is necessary due to the fact that it protects the user against falling out of the device.

2. It is forbidden to use deckchair for different purposes than it is intended to

3. It is forbidden to use deckchair if it is destroyed or any part is missing.

4. It is forbidden to leave the patient unattended.

5. It is forbidden to use the product without knowledgeable person or medical staff.

6. It is necessary to fold and secure chair during transportation in order to avoid any possible damages. Manufacturer doesn't take responsibility for damages which appeared due to improper preparation of the device during transportation.

7. It is forbidden to place the product close to fire or high temperatures. Deckchair cannot be stored as well as used in rooms with high humidity.

8. Before using the product, remove all paper and plastic packaging. The packaging is not a toy! Keep away from children and animals.



Incorrect product adjustment can lead to such side effects as fainting, body deformities, joint overload, etc. If the abovementioned symptoms occur, stop using the product immediately, take the user out of the product and lay them down. If the undesirable symptoms persist, contact a physician immediately. If the symptoms have disappeared, inform the attending physician about this fact in order to make a decision about the further rehabilitation process.

Serious incidents involving this device should be reported both to manufacturer and to the competent authority in your country.

Do not make adjustments when the bath chair is wet.

Do not make adjustments while there is a user on the bath chair, as doing so may damage the regulators.

The product contains small parts which children may swallow.

Under no circumstances should an unqualified person repair or alter the product and its construction, as the health and safety of the user depend on it as well as it will lead to the loss of warranty.

This device can be only used inside the buildings.

The weight of user should not be bigger than maximal weight described on page 7 where you will find information regarding this issue.

**AKVOLITO™** bath deckchair for children should be used in compliance with guidelines described in instruction manual.



## 11. MAINTENANCE AND CLEANING

**AKVOLITO™™** bath deckchair for children should be kept clean and used in compliance with the manufacturer's recommendations. The device should be kept in clean, dry and ventilated room. Maintenance as well as cleaning have to be performed at least once a month. Regular cleaning and maintenance of bath chair seat are indispensable to maintain its correct functionality as well as safety.

It is highly advisable to remember about proper maintenance in order to extend product's aesthetics. So as to do that, it is essential to comply with these guidelines:

- It is possible to disassemble upholstery and clean it with the aid of washing machine, Maximum temperature is 60 degrees;
- It is forbidden to clean upholstery by means of solvents and caustic chemicals;
- In case of disinfection of upholstery, use products which are intended for it;
- Do not chlorinate;
- Do not iron;
- Dry far from sources of fire.



Manufacturer takes no responsibility for damages caused by use of wrong clearing agent.

Manufacturer takes responsibility only for latent defect or damages which appeared despite the fact that user complied with the guidelines.

If any damages appear, it is necessary to contact authorised salesman who sold you the product.





### TECHNICAL INSPECTION

Technical inspections should be performed regularly. Before servicing, the product should be thoroughly cleaned to reveal any hidden damage.

Frequency	What should be checked?	What should be done?	Remarks
Before each use.	General condition of the product.	<b>Check:</b> <ul style="list-style-type: none"> <li>the entire product for any visible damage, cracks or mechanical defects,</li> <li>if the product complete,</li> <li>if all bolts, screws, knobs, nuts and other elements of the construction are complete and tightened.</li> </ul>	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Fastening of the construction elements.	<b>Check all the mechanisms of the product and its moving parts. Check in particular:</b> <ul style="list-style-type: none"> <li>if the elements securing the user are properly mounted and if they work well (if applicable),</li> <li>if all the moving parts are complete, work properly, do not jam,</li> <li>if the adjustment mechanisms of the following elements work properly (if applicable): headrest, backrest, seat, abduction block, armrests, footrests.</li> </ul>	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer
	Upholstery elements.	<b>Check:</b> <ul style="list-style-type: none"> <li>if there is any damage, tears, rips, loose seams or deformations on the upholstery elements,</li> <li>if the stabilizing straps, vests or safety belts are not frayed or twisted and if the buckles work properly,</li> <li>if the stabilizing straps, vests or safety belts work correctly and do not unfasten under pressure or when pulled.</li> </ul>	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
Once a week.	Product cleaning.	If the frame and upholstery get dirty (dusty, muddy, etc.) during everyday use, wipe them with a damp cloth without detergents. Remove dirt (e.g. hair, food remains, etc.) from the moving parts of the product.	The product should be cleaned when necessary, but at least once a week. Do not use any chlorine based cleaners or methylated spirit. Before using the product, check if the upholstery is dry.
Once a month.	Product construction connectors (welding, threading, soldering).	<b>Check:</b> <ul style="list-style-type: none"> <li>the condition of the product frame in the places of joining (welds, threads, soldering)</li> </ul>	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.



Frequency	What should be checked? What should be done?	Remarks
Once every 6 months.	Construction moving parts. <b>Check:</b> • if the moving parts of the construction have not been damaged. Maintain them using a proper cleaning agent.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Product labeling. <b>Check:</b> • if the marking and labels are readable.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.

The list of all spare parts is available for download after selecting a product on [www.reh4mat.com](http://www.reh4mat.com).

## 12. LABELLING



Declaration that the product meets the essential requirements



Catalog number



Serial number



Please read the manual instructions before use



Attention!



Manufacturer



Production date



The product does not contain latex



Store in a dry place



Medical Device



Dry vertically



Do not chlorinate



Do not iron



Do not dry in a drum dryer



Do not bleach



Careful! Delicate content



Protect from sunlight



Storage temperature limitation



Relative humidity storage



**ORTHOPAEDIC DEVICES MANUFACTURER**



36-060 Głogów Małopolski, ul. Piaski 47, POLAND

Factory of Orthopaedic Devices

Mailing address:

ul.Truskawkowa 17, Widna Góra, Jarosław, POLAND

ph. 16 621 42 20, 16 621 41 35

fax 16 621 41 13

e-mail: [biuro@reh4mat.com](mailto:biuro@reh4mat.com)

[www.reh4mat.com](http://www.reh4mat.com)

Date of issue: 13.04.2015

The last update: 14.03.2022



REH4MAT Sławomir Wroński reserve the right to introduce technical and trading changes in the content of the instruction without warning.