



Aquatec® Ocean E-VIP

- EN Shower and Toilet Commode**
User Manual
- DE Dusch- und Toilettenrollstuhl**
Gebrauchsanweisung
- FR Fauteuil/chaise pour douche/toilettes**
Mode d'emploi
- IT Carrozzina da doccia e WC**
Istruzioni per l'uso
- ES Silla de ducha y WC**
Manual de instrucciones
- NL Douche- en toiletrolstoel**
Gebruiksaanwijzing



This manual must be given to the user of the product.
Before using the product, read this manual and save it
for future reference!

AQUATEC®



Yes, you can.®

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Every effort has been made to ensure that the contents of this publication are fully up-to-date at the time of going to print.

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1	General	4	5	Operation	14
1.1	General information	4	5.1	Safety information	14
1.2	Symbols	4	5.2	Turning the armrests	14
1.3	Warranty	4	5.3	Turning the footrests	14
1.4	Intended use	4	5.4	Control	15
1.5	Product service life	4	5.5	Engaging the directional locking device	16
2	Safety	5	6	Transport	16
2.1	Safety information	5	6.1	Safety information	16
2.2	Safety information on electromagnetic compatibility	5	7	Maintenance	16
3	Description	5	7.1	Maintenance and servicing	16
3.1	Components	5	7.2	Cleaning and disinfection	17
3.2	Identification label	6	7.3	Maintaining the performance of the battery pack	18
4	Assembly and installation	6	7.4	Changing the wheels	18
4.1	Safety information	6	7.5	Changing the drives	18
4.2	Assembling the seat frame	6	8	After use	18
4.3	Fitting the headrest	7	8.1	Storage	18
4.4	Fitting the chest belt	8	8.2	Re-use	18
4.5	Fitting the seat plate	9	8.3	Disposal	18
4.6	Adjusting the backrest cover	9	9	Troubleshooting	19
4.7	Setting the armrest height	10	9.1	Identifying and repairing faults	19
4.8	Fitting the footrests	10	10	Technical data	20
4.9	Fitting the electronics cover	11	10.1	Dimensions and weight	21
4.10	Removing the battery pack	12	10.2	Electronic data	21
4.11	Charging the battery	13	10.3	Materials	21

I General

I.1 General information

This user manual contains information and notes on the proper and safe use of the shower and toilet commode.

Please read this user manual carefully before using the product. Please observe all the notes, particularly the safety information, and act accordingly.

The position specifications (A, B, C, etc.) in the handling instructions always refer to the preceding figure.

I.2 Symbols

Symbols used in this user manual

In this user manual warnings are indicated by symbols. The warning symbols are shown next to a title which indicates the level of danger.



WARNING

Indicates a dangerous situation which could lead to severe injury or even death if not heeded.



CAUTION

Indicates a dangerous situation which could lead to minor injuries if not heeded.



IMPORTANT

Indicates a dangerous situation which could lead to damage if not heeded.



Useful tips, recommendations and information to ensure efficient and smooth operation.



Complies with Directive 93/42/EEC concerning medical devices. The market launch date for this product is indicated in the EU declaration of conformity.



Manufacturer

I.3 Warranty

We provide a manufacturer's warranty for the product in accordance with our General Terms and Conditions of Business. Warranty claims can only be made through the relevant dealer.

Quality and electromagnetic compatibility

Quality is of the utmost importance for our company; all processes are based on the ISO 9001 and ISO 13485 standards.

The product meets the requirements of the standards, DIN EN 12182 (Assistive products for persons with disability) and DIN EN 60601-1 (Electrical safety) and DIN EN 60601-1-2 (Electromagnetic compatibility).

Should you require further information, please contact the relevant Invacare® subsidiary in your country (contact addresses are provided on the back of this user manual).

I.4 Intended use

The shower and toilet commode is intended solely as an aid when showering, using the toilet or transferring patients in an indoor environment. The product should not be used for any other purpose.



WARNING Risk of injury

- Never stand on the product to get into or out of the bathtub, do not use it for climbing or descending, as a support, or for any similar purpose.
- Not suitable for outdoor use.

You can use the product as a toilet commode by placing it over a standard toilet or by combining it with a commode pan (optional).

Operating temperature: 5 - 40 °C

I.5 Product service life

If the product is used as intended and in accordance with the safety regulations, the expected product life is 5 years. The effective service life can vary, however, depending on the frequency and intensity of use.

2 Safety

2.1 Safety information



WARNING Risk of injury

- ▶ Do not use a faulty product.
- ▶ In the event of a malfunction, contact a dealer immediately.
- ▶ Do not make any unauthorized changes or alterations to the product.
- ▶ Only use accessories intended for this product.

2.2 Safety information on electromagnetic compatibility

This product was successfully tested to international standards for its electromagnetic compatibility. However, electromagnetic fields such as those generated by radio and television transmitters, radio equipment and mobile telephones, can influence the operation of products with electrical drives. The electronics used in this product can also cause weak electro-magnetic interference but this lies below the statutory limits. You should therefore observe the following instructions:



CAUTION Electromagnetic interference

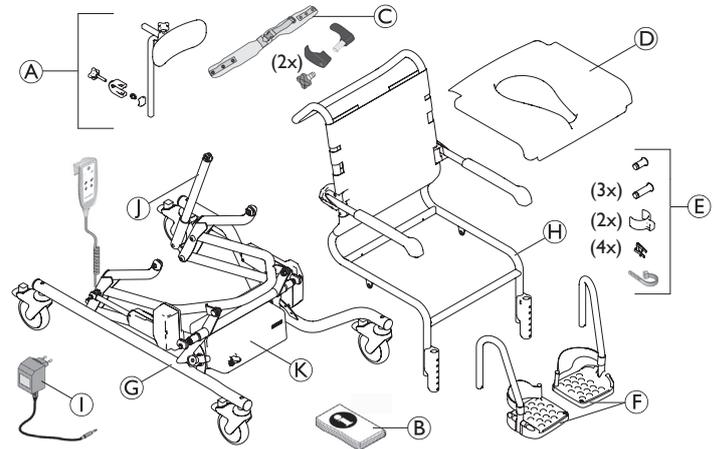
- Electromagnetic interference could cause the Ocean E-VIP to malfunction or interfere with other devices.
- ▶ Switch off the external device and/or the Ocean E-VIP if you notice such behavior.
 - ▶ If other electrically operated medical products cause interference or are themselves disrupted, switch off the Ocean E-VIP and contact your dealer.

You will find further information about the product's electromagnetic properties in Section 10.4 Guidelines and manufacturer's declaration.

3 Description

3.1 Components

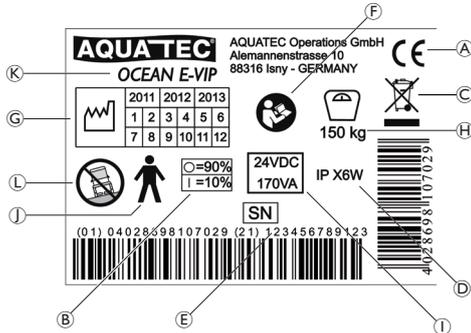
The following components are included within the scope of delivery:



(A)	Headrest
(B)	User manual
(C)	Chest belt
(D)	Seat plate
(E)	Bolt (4 x), safety clips (4 x), clips for footrests (2 x), cable tie (1 x) packed in a bag
(F)	Footrests with heel strap (2 x)
(G)	Chassis with hand control and control box with battery pack + drives
(H)	Seat frame with backrest cover and armrests
(I)	Charger
(J)	Tilt drive
(K)	Electronics cover

3.2 Identification label

The identification label contains important information:



(A)	Conformity mark
(B)	Duty cycle (max. 10%, max. 2 min/18 min)
(C)	Note (disposal)
(D)	Type of protection
(E)	Serial device number
(F)	Note (observe accompanying documents)
(G)	Production timeframe
(H)	Load capacity
(I)	Nominal voltage/rated power
(J)	Type B applied part
(K)	Device designation
(L)	Note (only suitable for use on flat surfaces)



The identification label is applied to the rear left side tube.

4 Assembly and installation

4.1 Safety information

! IMPORTANT

- ▶ Check the parts for transport damage before commissioning and contact the dealer if required.
- ▶ Ensure during assembly that the parts are positioned correctly with respect to one another.

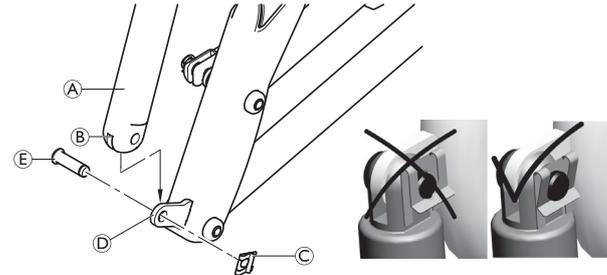
This section explains how to assemble the product. The product is dismantled in the reverse order.

4.2 Assembling the seat frame

! WARNING

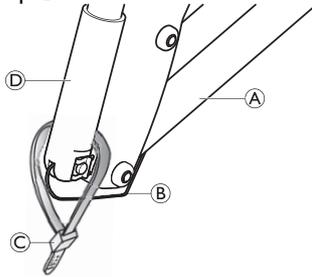
- Risk of bolts slipping out.
- ▶ Make sure that the safety clips engage and are correctly fitted (see diagram below).

- Secure all the wheels with the red foot levers. To do this, press down on the red foot lever on the wheels.



- Remove the drive for the seat tilt (A) from the chassis. To do this, cut through the cable tie.
- Push the fork (B) at the lower end of the drive (A) onto lip (D) at the back edge of the chassis and align the holes.
- Insert bolt (E) (35 mm) into the holes from the outside and push it in fully.

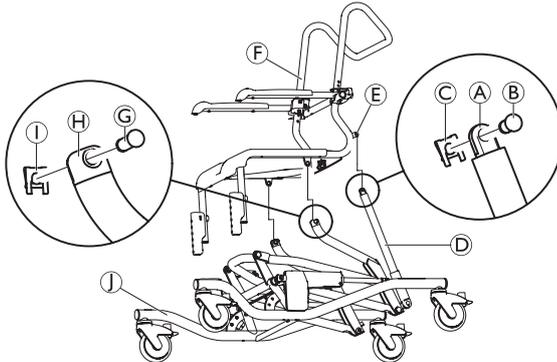
5. Attach a safety clip **C** on the inside.



6. Insert cable **B** of drive **D** as far as possible into chassis **A**.
 7. Use cable tie **C** provided to secure the cable of the drive in this position.

! **IMPORTANT**

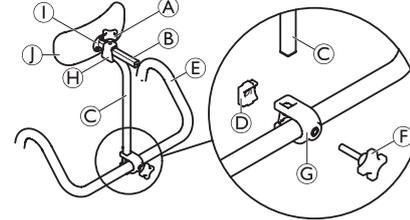
The armrests face forward when folded down.



8. Insert both sides of seat frame **F** into receivers **H** on chassis **J**.
 9. Insert the two 35 mm bolts **G** into receivers **H** from the outside, push in fully and attach safety clips **I** on the inside.
 10. Tilt the seat frame until the holes in bracket **E** on the seat frame and in fork **A** on seat tilt drive **D** are aligned.

11. Insert the 23 mm bolt **B** into the holes from the outside and attach safety clip **C** on the inside.

4.3 Fitting the headrest



! **IMPORTANT**

Retaining bar **C** can be fitted with the curve to the front or back, depending on the user's requirements.

The headrest cushion **I** can be removed and replaced with other cushion shapes (optional).

► To remove the cushion, undo mounting screws **J**.

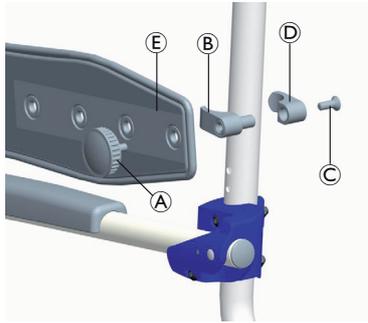
1. Twist the screw with hand knob **F** a little way into brace **G**.
2. Attach the brace with the screw to the handle of backrest **E** from the back in such a way that the screw enters the hole in the handle of the backrest.
3. Insert plate **D** into the brace from the front in such a way that the two lips of the plate face upwards and downwards and the curved side of the plate meets the handle of the backrest.

! **IMPORTANT**

When inserting the support, the curve of the plate must be fully flush with the backrest handle.

4. Insert retaining bar **C** into the recesses of the brace from above.
5. Tighten the screw with hand knob **F** until the retaining bar is secure.
6. Insert cushion **I** together with cushion support **B** into bracket **H** on the retaining bar.
7. Tighten the upper screw with hand knob **A** until the cushion support is secure.

4.4 Fitting the chest belt



! IMPORTANT

- ▶ Install both mounting brackets at the same height.
- ▶ Installation of the left and right mounting brackets is laterally inverted.

1. Open the belt buckle on the backrest cover at the height where the chest belt is to be fitted.
2. Pass this belt on the inside of the backrest frame and close it again.
3. Place inner section ④ of the mounting bracket (without bolt with internal thread) around the backrest frame so that the hole faces backwards.
4. Place the outer section ② of the mounting bracket with the bolt with internal thread into the hole of the inner section.
5. Attach the two parts of the mounting bracket in the required position with screw ③ on the backrest frame.
6. Attach chest belt ⑤ with the screw with hand knob ① to the mounting brackets.

Adjusting the chest belt position

! IMPORTANT

- ▶ Adjust the position of the chest belt to suit the user.
- ▶ Adjust the position of the two mounting brackets equally on both sides.
- ▶ The position of the right and left mounting brackets is adjusted in the same way.

1. Open the belt buckle on the backrest cover which is passed on the inside of the backrest frame at the height where the chest belt is secured.
2. Open the belt buckle on the backrest cover at the height where the chest belt is to be fitted.
3. Pass this belt on the inside of the backrest frame and close it again.
4. Undo the screw with hand knob ①.
5. Remove chest belt ⑤.
6. Remove the two parts of the mounting bracket ② and ④ and move them to the required position.
7. Place the inner part of mounting bracket ④ around the backrest frame.
8. Place the outer section of mounting bracket ② on the bolt with internal thread ③ of the inner section.
9. Use the screw with the hand knob to screw the chest belt onto the mounting bracket.
10. Pass the open belt of the backrest cover on the outside of the backrest frame and close it again.
11. Tighten all belts.

Adjusting the chest belt length

! IMPORTANT

- ▶ Adjust the length of the chest belt to suit the user.

The length of the chest belt is adjusted via the belt buckle on the chest belt. If the belt buckle adjustment range is insufficient, adjust the length at the mounting brackets as follows:

1. Undo the screw with hand knob (A).
2. Select the length of chest belt (E).
3. Use the screw with the hand knob to screw the chest belt onto the mounting bracket.

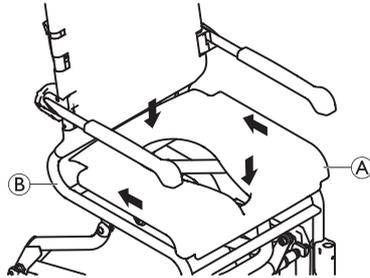
4.5 Fitting the seat plate

Attachment:



CAUTION Danger of pinching fingers

- Do not insert fingers between the seat surface and seat frame when pressing down the seat plate.

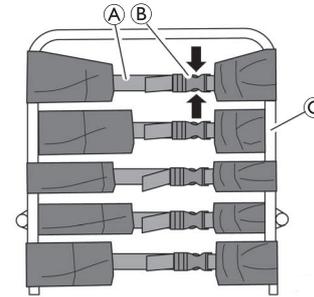


1. Place seat plate (A) on seat frame (B) with the cut out facing to the front.
2. Slide the seat plate back as far as it will go.
3. Using the flat of your hand, press down on the sides and then the front and back of the seat plate until the seat plate clicks into the seat frame.

Removal:

1. Pull up the seat plate on both sides.

4.6 Adjusting the backrest cover



IMPORTANT

- To attach accessories or the chest belt, open the second belt buckle from above and pass the backrest cover on the inside of the backrest frame (C) at this point.
- At least three belts must always go around the outside of the backrest frame and their buckles must be closed.

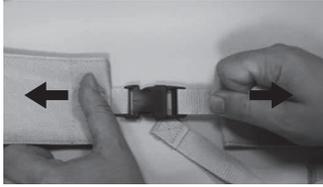
The tension of the backrest can be adjusted as desired.

Tightening

1. Tighten belts (A) on the backrest cover.

Loosening

1. Open belt buckles (B) by squeezing the retaining lugs together (arrows).
2. Push the belts back a little through the buckle.
3. Close the buckles.
4. Tighten the belts slightly.

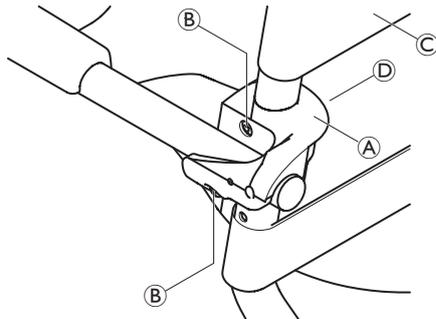


WARNING Risk of injury due to damaged backrest buckles!

Check for secure fastening of the backrest buckles each time the product is maintained or reconditioned.

- Check all buckle clips for secure fastening by closing the buckles and pulling on both ends.
- Replace the backrest/backrest buckles if a buckle opens under the applied force.

4.7 Setting the armrest height



IMPORTANT

- Adjust the height of the armrests to suit the user.
- Adjust the height of the armrests equally on both sides.
- The height of the right and left armrest is adjusted in the same way.

1. Open the belt buckle on the backrest cover which is passed on the inside of the backrest frame.
2. Open the belt buckle of belt © on the backrest cover, which is above the armrest.
3. Pass this belt on the inside of the backrest frame and close it again.



The nuts are inserted loosely into the retaining clamp and may drop out.

4. Undo screws ⑥ of armrest bracket ① using the Allen key supplied.
5. Remove retaining clamp ④ with the nuts from the inside of the backrest frame.
6. Remove armrest bracket ① together with the armrest and move it upwards.



The smaller hole is provided to secure the retaining clamp.

7. Insert the screws into the armrest bracket and guide them through the holes in the backrest frame.
8. If necessary reinsert the nuts into the retaining clamp.
9. Place the retaining clamp on the backrest frame in such a way that the fixing on the retaining clamp engages in the smaller hole.
10. Turn the screws in the nuts and tighten them.
11. Pass the open belt of the backrest cover on the outside of the backrest frame, close and tighten all the belts.



IMPORTANT

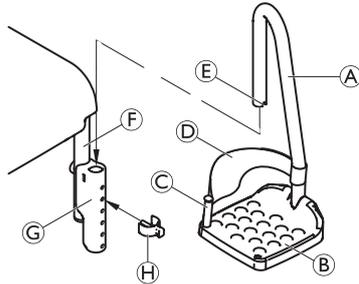
The armrests are adjusted to the lower position in the same way.

- When adjusting to the lower position, the belt beneath the armrest must be opened and passed on the inside the backrest frame.

4.8 Fitting the footrests

! IMPORTANT

- ▶ The right and left footrest are each installed in the same way.



1. Slide footrest (A) with footplate (B) inwards into the guide (C) on seat frame (F) until groove (E) engages in the pin of clip (H). The footrest should no longer turn to the sides.

Setting the footrest height

1. Pull footrest (A) up a little.
2. Pull out clip (H) and reinsert it in the desired position. You may need to pull the footrest out a little further to do this.
3. Press down the footrest until groove (E) engages in the pin of the clip.
4. Adjust the second footrest to the desired height as described.

Removing/attaching the heel straps

1. Open the Velcro® fastener on heel strap (D).
2. Remove screw (C) from the underside of the footplate.
3. Remove the screw and flexible pin with the heel strap.

The heel strap is attached in the reverse order.

! IMPORTANT

- ▶ When installing a footrest, make sure that the Velcro® fastener of the heel strap faces backwards.

Adjusting the heel strap

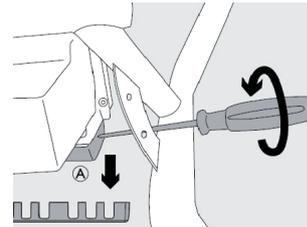
! IMPORTANT

- ▶ Make sure that the Velcro® fastener of the heel strap faces backwards.

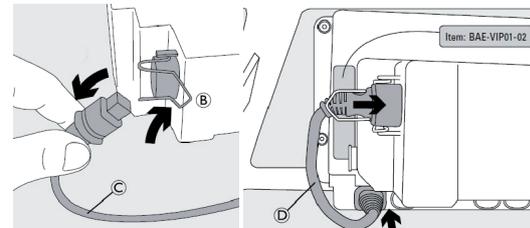
1. Open the Velcro® fastener on heel strap (D).
2. Set the heel strap to the desired length.
3. Close the Velcro® fastener again.

4.9 Fitting the electronics cover

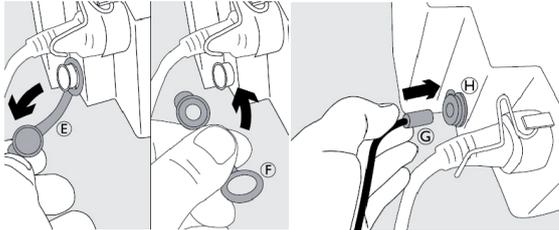
1. Turn both footrests outwards or remove them.
2. Use the hand control to move the shower and toilet commode to the highest position; see Section 5.4 Controlling, lifting.



3. Remove terminal strip (A).



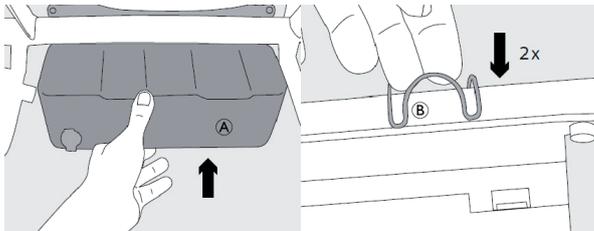
4. Fold safety bar **B** forward.
5. Remove the long connector cable **C** (180 mm) between the battery pack and electronics box.
6. Attach short connector cable **D** (110 mm).
7. Fold the safety bar back again.
8. Reattach the terminal strip.



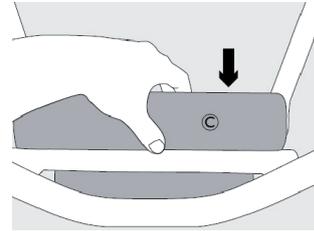
9. Swap blue plug **E** of the charging socket with the plug with the hole **F**.
10. Insert connector **G** on the electronics cover into charger socket **H** of the battery pack.

! IMPORTANT

▶ Make sure that the connector is positioned correctly.



11. Attach the front section **A** to the electronic cover and secure it on the tube with safety clips **B**.



12. Attach the rear part of the electronics cover **C** from above.

Removal:

The electronics cover is removed in the reverse order to installation.

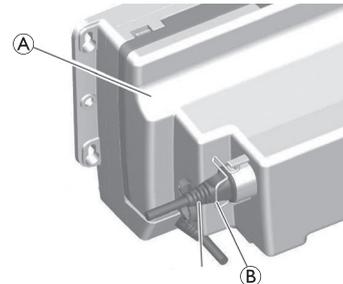
4.10 Removing the battery pack

1. Remove the electronics cover, see 4.9 Fitting the electronics cover, Removal.

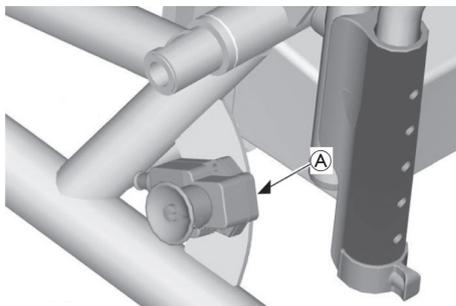
! IMPORTANT

▶ Make sure that the connector between the electronics cover and the battery pack is disconnected.

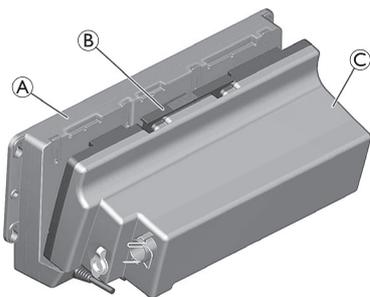
2. Draw the footrests upwards out of the guides and place them to one side.



3. Fold safety bar **B** forward and remove connector **C** from battery pack **A**.



4. Insert the connector cable in cable holder (A).



5. Use one hand to push back unlocking tab (B) on the top of battery pack (C).
6. With your other hand, lift the battery pack approx. 5 mm and draw it out approx. 10 mm.
7. Remove the battery pack from control box (A) with twist and tilt movement.

4.11 Charging the battery

The product cannot be used while the battery is charging.

The battery can be charged with the electronics cover attached or detached and when the battery pack is removed.



WARNING

- Never throw the battery pack into the fire or store it near naked flames.
- Never open the battery pack. Opening the battery pack will void the warranty.
- Only connect the charger to the mains when the battery pack is connected to the charger.



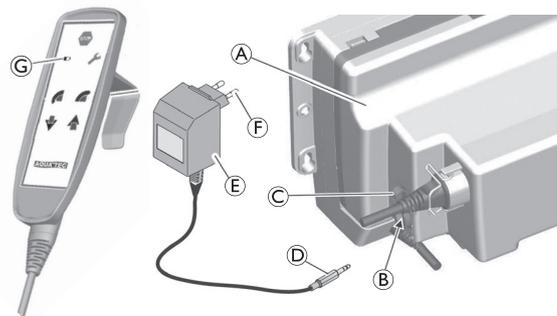
CAUTION Risk of electric shock!

- Only recharge the battery in dry rooms and never in the bathroom.
- With the electronics cover removed after charging, close off the socket on the battery pack with the dust cap.



IMPORTANT

- Only use the charger supplied (*Aquatec*® Ocean E-VIP) to charge the battery in the battery pack.
- Make sure that the voltage specifications shown on the charger correspond to those of the mains supply.
- Follow the instructions in Section 7.3 on how to maintain the service life of the battery when not in use for a lengthy period.



1. Detach cap ③ from socket ② on battery pack ①.

! IMPORTANT

When the electronics cover is fitted, the charging socket is to the front (not to the side).

2. Fully insert connector ④ of charger ⑤ into socket ② on the battery pack.

3. Insert mains plug ⑥ of the charger into an approved power socket.

Charging takes approx. 5 hours. Yellow indicator lamp ③ on the hand control lights up during this time. A trickle charge (pulsed charging) is applied for approx. 3 hours after this time. Green indicator lamp on the hand control lights up during this time. The charger controller terminates the charging process after about 8 hours. The indicator lamp on the hand control goes out. This prevents the battery from being „overcharged“.

4. Disconnect the charger from the power socket.
5. Disconnect the charger connector from the socket on the battery pack.
6. Close off the socket with the dust cap.

5 Operation

5.1 Safety information



WARNING

- ▶ Only use the shower and toilet commode on a flat surface and indoors.
- ▶ Observe the specifications on the identification label. Do not place excessive weight on the shower and toilet commode.
- ▶ Always perform a visual inspection of the product for external damage before each use.
- ▶ Do not use a faulty product.
- ▶ Recharge the battery fully before each use.
- ▶ Always use the chest belt when transporting a person.



WARNING Risk of slipping and rolling

- ▶ Before use, make sure that the seat is securely fastened to the seat frame.
- ▶ Lock all four wheels using the red foot levers before sitting into the commode or standing up from it, as well as in the parking position.



WARNING Risk of tipping

- ▶ Swivel the footrests to the side before sitting down or standing up or fold the footplates up.
- ▶ Before sitting down or standing up, turn the front wheels so that the brake is to the front.
- ▶ Never stand on the footrests.
- ▶ Never remove the spindle drives.



IMPORTANT Risk of breaking the headrest

- ▶ Only steer or push the shower and toilet commode using the handle on the backrest, never with the headrest.

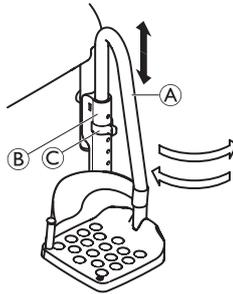
5.2 Turning the armrests



CAUTION Danger of getting fingers caught in the folding mechanism

- ▶ Do not insert fingers in the articulated joint when folding the armrests up or down.
- ▶ Make sure that no parts get caught.
- ▶ Do not insert fingers between the armrest and the backrest when folding back the armrests.

5.3 Turning the footrests



Mounting position/dismounting position:

1. Draw footrest (A) in guide (B) upwards slightly, until the groove is no longer engaged in the pin of clip (C).
2. Turn the footrest to the side.

Driving position:



CAUTION Risk of accident due to loose footrest
 ▶ Secure the footrests in the driving position.

1. Turn footrest (A) inwards.
2. Press down the footrest until the groove engages in the pin of clip (C).

5.4 Control

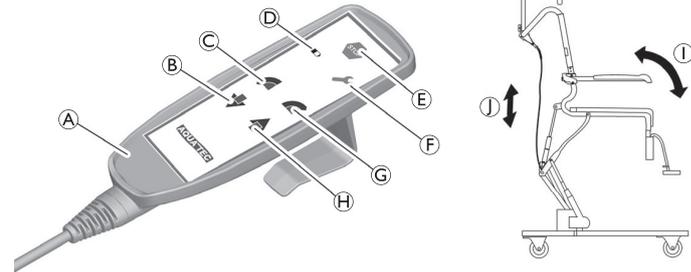
The product is controlled via the hand control.

The device will stop immediately in its current position as soon as the relevant buttons are released.

For safety reasons, the drives have certain blocked ranges:

Seat height	Seat tilt
500 to 600 mm	up to 5° forwards up to 35° backwards

Seat height	Seat tilt
over 600 mm	no forward movement up to 35° backwards



IMPORTANT

If the battery in the battery pack is not sufficiently charged, yellow indicator lamp (D) on hand control (A) lights up and an acoustic signal is heard while moving. After the indicator lamp lights up, just five more movement cycles can be carried out. After this, the lifting function of the device is disabled. You can, however, still lower the device.

- ▶ Recharge the battery immediately after lowering the device.



CAUTION Danger of pinching fingers

- ▶ Do not place your fingers between the seat frame and the front tubular frame of the chassis when tilting or lowering the seat.



IMPORTANT

If the seat frame is tilted forward, the seat height can be adjusted to a maximum of 600 mm.

If the seat height is set to more than 600 mm, the seat frame can no longer be tilted forward.

Tilting the seat frame and backrest

The seat frame can be tilted backwards approx. 35° and forwards approx. 5°.

- I. Press reverse button ③ or forward button ④ on the hand control.

The seat frame can be tilted backwards or forwards ①.

Lifting

- I. Press Up button ⑨ on the hand control.

The seat frame moves upwards ①).

Lowering

- I. Press Down button ⑧ on the hand control.

The seat frame moves downwards ①).

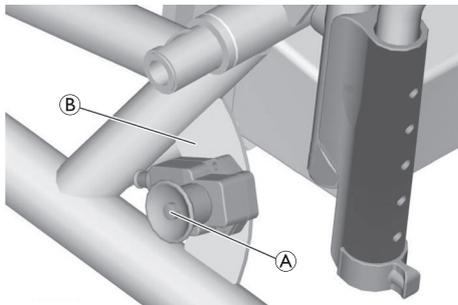
Emergency shutdown

! IMPORTANT

Only press the red STOP button ⑤ on the hand control if the device does not stop immediately when a button is released (e.g. if a button jams). The device will stop moving immediately.

Emergency lowering mechanism

If it is no longer possible to lower the seat frame any further using the hand control, the seat frame can be lowered using the emergency lowering mechanism.



- I. Press button ⑩ on the right side of chassis ⑥.

! IMPORTANT

- If the seat frame has been lowered using the emergency lowering mechanism, have the shower and toilet commode checked by an authorized dealer.

5.5 Engaging the directional locking device

! IMPORTANT

- Lock the directional locking device on the wheel with the blue foot lever. The wheel is locked and will only move in a straight line. The directional locking device only engages once the wheel is in the straight position.

6 Transport

6.1 Safety information



The product can be dismantled into the component parts listed in the scope of delivery (Section 3.1 Components) for transport purposes.

- For information on how to dismantle the product, see Section 4 "Assembly and installation".

! IMPORTANT Risk of damage

- Transport the product in a dry area at a temperature of between 0 °C and 40 °C, atmospheric pressure of 795 - 1060 hPa and a humidity of 30 - 75%.
- Do not expose the product to direct sunlight.

7 Maintenance

7.1 Maintenance and servicing

If the cleaning and safety notices are observed, the product will be maintenance free.

The product requires regular safety checks.

**WARNING**

- Never carry out unauthorized repairs or other work on the spindles or electric components. If a spindle is damaged or faulty, contact the dealer immediately.
1. Check the product regularly for damage and to ensure that it is securely assembled.
 2. In the event of damage and/or necessary repairs, contact the dealer immediately.
 3. The product must be checked by an authorized dealer before every re-use or after 24 months at the latest (see Manufacturer's recommendation for rehab products of the SPECTARIS industrial association).

7.2 Cleaning and disinfection

The product can be cleaned and disinfected using commercially available agents.

**IMPORTANT**

- Hygiene is particularly important in a sensitive area like the toilet.
 - Keep the product clean and wash it regularly.
1. Disinfect the product by wiping down all generally accessible surfaces with disinfectant (after disassembling the product, if possible).

**IMPORTANT**

- All cleaning agents and disinfectants used must be effective, compatible with one another and must protect the materials they are used to clean.
- For further information on decontamination in Healthcare Environments, please refer to 'The National Institute for Clinical Excellence' guidelines on Infection Control www.nice.org.uk/CG002 and your local infection control policy.
 - Clean the product by hand.
 - Do not use abrasive cleaning agents.

Cleaning the seat frame and chassis**CAUTION** Risk from electric current

- Before cleaning, close off all caps and secure all connectors.

**IMPORTANT** Risk of damage

- Do not remove the accessory holders.

1. Close off all caps and secure all connectors.
2. Remove any attached accessories.
3. Pull the footrests out of the guides.
4. Remove the seat plate and backrest cover.
5. Wash down the individual parts using commercially available cleaning agents (e.g. all-purpose cleaner) and a cloth or brush.
6. Rinse the parts with warm water.
7. Dry the parts with a cloth.
8. Reassemble the shower and toilet commode.

**CAUTION** Risk of burning

- Allow the shower and toilet commode to cool down after cleaning.

Cleaning in a clinical environment**CAUTION** Risk of burning

- Allow the product to cool down after autoclaving.

1. In addition to cleaning as described above, the product should also be cleaned at regular intervals at 85 °C for 3 minutes in the autoclave.

Cleaning the backrest cover

1. Remove the backrest cover.
2. Wash the cover in a washing machine at max. 60°C using a mild detergent.

! **IMPORTANT** Risk of damage

- Washing at high temperatures can cause shrinkage.
- Do not dry covers in the tumble dryer.

Cleaning the charger and battery pack**CAUTION** Risk from electric current

- Always disconnect the plug from the power socket before cleaning the charger.
- Never insert objects made of conductive material (e.g. knitting needles, metal pins) into the sockets of the battery pack.
- Only ever clean the charger with a dry cloth.

1. Wipe down the charger with a dry cloth.
2. Wipe the battery pack with a damp cloth and dry it with a dry cloth.

7.3 Maintaining the performance of the battery pack

If the device is to be left unused for a lengthy period of time, fully charge the battery in the battery pack (approx. 5 - 6 hours charging time) and then raise and lower the unoccupied seat frame 3 times. Repeat this process at least every 6 months. This helps to maintain the service life of the battery for longer.

7.4 Changing the wheels

WARNING There is a risk of injury if the wheels are not correctly fitted.

The wheels have to be replaced by a specialist dealer.

7.5 Changing the drives

WARNING There is a risk of injury if the drives are not correctly fitted.

The drives have to be replaced by a specialist dealer.

8 After use**8.1 Storage****IMPORTANT** Risk of damage

- Store the product in a dry area at a temperature of between 0 °C and 40 °C, atmospheric pressure of 795 - 1060 hPa and a humidity of 30 - 75%.
- Do not store the product near heat sources.
- Do not expose the product to direct sunlight.

8.2 Re-use

The product is suitable for re-use. The number of re-uses depends on the frequency of use and the manner in which the product was used. Before re-use, the product should be cleaned and disinfected and be checked to ensure it is in proper and safe working order. Repair if necessary.

8.3 Disposal

The disposal and recycling of used products and packaging must be conducted in accordance with the applicable statutory regulations.

The manufacturer can handle the correct and complete disposal of the device.

This product contains a rechargeable lead battery. Old batteries may contain hazardous substances which could be a danger to the environment and public health. Please take these back to the dealer or bring them to the local recycling depot. Batteries can be returned free-of-charge as required by law.

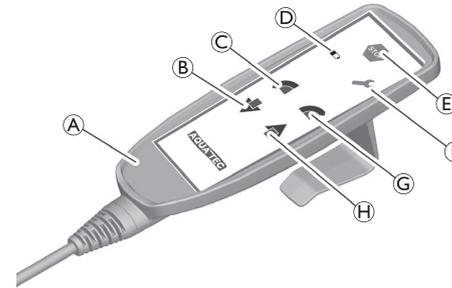
9 Troubleshooting

9.1 Identifying and repairing faults



The following table provides information on malfunctions and their possible causes.

If you cannot correct the malfunction using the remedies named, please contact your dealer directly.



Fault	Possible cause(s)	Remedy	
An acoustic signal sounds and indicator lamp ④ on hand control ① lights up while the device is moving	Battery almost exhausted	▸ Charge the battery (see Section 4.11)	
The "SERVICE" indicator lamp ⑥ on the hand control lights up	Hand control faulty	▸ Implement reset (see below)	
	Software error		
	Emergency lowering mechanism button faulty		
	Power failure while moving		
	Drive faulty		
Emergency lowering mechanism not working	Controller faulty	▸ Charge the battery (see Section 4.11) or use a replacement battery	
	Battery flat		
	Cable not fully inserted		▸ Insert the cable fully
	Connector strip not connected		▸ Connector strip connected (engaged)
Tilted position of the seat frame	Faulty button	▸ Implement reset (see below)	
	The motors were raised to different heights	▸ Hold the Down button ② on the hand control until the drives are fully lowered and you hear the limit switch click into place	

Fault	Possible cause(s)	Remedy
The seat frame will not move upwards or The seat frame will not move downwards or The seat frame will not tilt	Weight limit exceeded	▸ Max. load 150 kg
	Cable not correctly inserted	▸ Insert the cable correctly
	Connector strip not connected	▸ Connector strip connected (engaged)
	Cable incorrectly attached to controller	▸ Motor for tilting always on channel 7
	Connector cable broken	▸ Replace the cable
	Connector cable not fully inserted	▸ Insert the cable fully and close the safety bar.
	Controller faulty	▸ Implement reset (see below)
	Battery flat	▸ Charge the battery (see Section 4.11) or use a replacement battery
	Hand control cable is not inserted correctly	▸ Insert the cable fully
Battery will not charge	Hand control faulty	▸ Implement reset (see below) or ▸ Replace the hand control
	Faulty battery	▸ Replace the battery
	Connector not correctly inserted	▸ Check that all the connectors are positioned correctly

Implementing a reset

1. Hold down the following three buttons simultaneously for about three seconds on the hand control: Red STOP button (E), Forward button (C) and Up button (H).

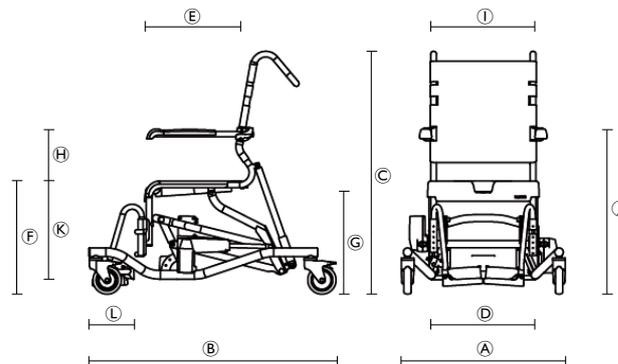
An acoustic signal will be heard while the three buttons are held down.

2. When „SERVICE“ indicator lamp (F) goes out, release the buttons. The device is ready to use again.
3. Then move the drives for adjusting the height to the lowest position until you hear the drives switch off.
4. Move the tilt drive to the rear end position until you hear the drive switch off. (The red LED flashes and an acoustic signal is heard).

! IMPORTANT

- If the fault recurs after the reset, replace the device or the faulty parts and send them to us.

10 Technical data



10.1 Dimensions and weight

Ⓐ	Total width	730 mm
Ⓑ	Depth (without footrests)	1010 mm
Ⓒ	Height (without headrest)	1070 – 1620 mm
Ⓓ	Seat width	480 mm
Ⓔ	Seat depth	450 mm
Ⓕ	Seat height	500 – 1050 mm
Ⓖ	Measure the distance between the floor and the bracket for the commode pan.	420 – 970 mm
Ⓗ	Height, seat to armrest	230 – 270 mm
Ⓘ	Width between the armrests	470 mm
Ⓙ	Height to armrests	730 – 1320 mm
Ⓚ	Height, footrests to seat	345 – 465 mm
Ⓛ	Footplate depth	155 mm
Ⓜ	Width, hygiene recess	205 mm
Ⓝ	Depth, hygiene recess	320 mm
	Height adjustment	stepless
	Wheel diameter	5" (127 mm)
	Weight	approx. 39 kg
	Load capacity	150 kg

10.2 Electronic data

Operating voltage	24 V
Rated input power	170 VA
Battery type	Lead acid
Typical operating time	40 cycles
Charger input	230 – 240 V AC, 50 – 60 Hz
Charger output	24 V DC, 12 VA
Charge time from low-voltage warning	approx. 5 – 6 h
Type of protection, drive, battery pack and electronics housing	IP X6 W ¹⁾
Type of protection, charger	IP 40 ²⁾
Type of protection, entire device	IP X6 W ¹⁾
Sound power level	52 dB(A)

¹⁾ Protected against the penetration of water in the event of strong jets of water, tested under stipulated weather conditions.

²⁾ Protected from solid foreign bodies measuring 1.0 mm or more, not protected against the penetration of water.

10.3 Materials

Frame	Stainless steel, powder-coated
Seat plate	Polypropylene
Backrest cover	Nylon, PVC-coated
Footrests	Polypropylene, fiber-glass reinforced
Armrests	Polypropylene
Wheels	Plastics and stainless steel