



If caregivers have a choice, they choose Lopital



Instruction for use
Elexo XXL
shower-toilet chair



Instruction for use

(IFU5300-2025-01 EN)

Eleexo XXL

shower toilet chair



Eleexo XXL shower toilet chair: 5100 5300

Basic UDI-DI: 872025610316551005300JX



If caregivers have a choice, they choose Lopital

Important:

Read these instructions carefully before using the Elexo XXL!

Date first used.....
User.....
Name.....
Address.....

Manufacturer

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T +31 (0)13 5239300
www.lopital.nl
info@lopital.nl

All of the aids produced by Lopital fulfil the following norms for medical products Class 1 (MDR (EU) 2017/745).

Explanation of symbols in 'instructions for use' and on labels			
	Note		Read the user manual before use.
	Manufacturer data		Read the cleaning and disinfection protocol.
	Production date		Antibacterial
	Maximum load		Temperature
	Article number		Air pressure
	Conformité Européenne		Humidity level
	Medical device		Serial number
	GS1 Datamatrix the following information: (01) Global Trade Item Number (internationaal uniek artikelnummer) (11) Production date (21) Serial number		Keep the tool away heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
	24V DC voltage		

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1. Introduction

1.1. Introduction

The Elexo XXL electric height-adjustable shower-toilet chair is an aid for the ergonomic care and washing of the client. For both the client and the carer, the comfort is optimal. The Elexo XXL can be used with a commode pan / bucket or in combination with a toilet, can also be used as a toilet seat. The Elexo XXL consists of a base and a chair section. The seat section has the same comfort as a normal chair and offers the same proper support. There are no essential performances.



The frame of the Elexo XXL has an antibacterial coating. The coating contains silver ions.

Antibacterial coating based on silver ions prevents dangerous micro organisms such as bacteria, fungi and algae multiply and spread. The effectiveness was confirmed in several tests. Germs were demonstrably reduced in a short time to 99.99%. The coating only affects bacteria that are found on the surface and not on airborne microorganisms. The coating protects users or others from disease-causing bacteria, germs, viruses or other harmful organisms. On a dirty surface, the coating loses its antibacterial properties. So proper cleaning and disinfection is still a must.

The expected technical lifetime of the Elexo XXL is 10 years, provided that daily and periodic maintenance is carried out according to the specified maintenance schedule (*See chapter 5: Cleaning and maintenance*).

The Elexo XXL is a medical class 1 product with CE marking. This marking is in accordance with the regulation MDR (EU) 2017/745. The Elexo XXL is tested for electromagnetic radiation according to the 60601-1-2 standard.

1.2. Safety



A failure to comply with the following safety points and the further definitions in these instructions for use could lead to hazardous working situations. Please read carefully before use.

Use

- Before you start work with the Elexo XXL, check that it has been disconnected from the charger.
- The Elexo XXL will fall into standby mode after a few seconds when the chair is not in use.
- Make sure that the Elexo XXL brake is applied before transferring clients.
- Notify the client before moving the Elexo XXL.
- To avoid entrapment, do not place your feet on the lower frame when raising, lowering or tilting the seat.
- Make sure that the client always places his/her arms on the armrests provided to prevent

possible entrapment.

- Keep the armrests closed when moving the Elexo XXL.
- Be aware of obstacles when moving upwards and downwards.
- Only relocate and move the Elexo XXL in the lower position.
- When moving the Elexo XXL, do not adjust upwards or downwards.
- Always try to move backwards over obstacles.
- Set the Elexo XXL to the correct height before using with a toilet.
- It is not permitted to charge the Elexo XXL with more than 220 kg.
- The Elexo XXL is only suitable for moving and caring for one person.
- Only use original parts, supplied by Lopital.
- The use of components (chargers, cables, actuators, batteries, etc.) that have not been supplied by Lopital may result in increased emissions or decreased immunity of the Elexo XXL.
- Use the Elexo XXL in a clean and tidy working environment.
- Only verifiably authorised personnel is allowed to work with the Elexo XXL.
- Charge battery in a well-ventilated, dry space.
- Swimming pool locations are not considered to be 'normal conditions' and will substantially shorten the lifespan of certain components.
- The Elexo XXL cannot be used on a surface with a gradient over 5 degrees laterally.
- The Elexo XXL cannot be used on a surface with a gradient of over 10 degrees forwards / backwards.
- The Elexo XXL may only be used indoors.
- Portable and mobile RF communication equipment can affect medical devices.
- Medical electrical devices involve special EMC precautions and must be used as per the EMC information outlined in the instructions for use.
- The chair must not be used adjacent to or stacked on other products. However, should that be necessitated, it must be checked whether the chair functions normally in this configuration too.

Maintenance

- If the charger or cable become damaged, they must be replaced.
- In the event of damage to the seat, back or backrest, always replace them for reasons of hygiene.
- The Elexo XXL must be inspected and serviced at least once a year.
- Replacing structural parts of the Elexo XXL may only be carried out by persons authorised by Lopital.
- Service and maintenance must not be carried out while a client is sitting on the chair.
- If erroneous use, transport, an accident or improper maintenance leads to deformation of the Elexo XXL, it may no longer be used and you must contact the supplier.

In the event of breakdowns, you must contact Lopital or your local supplier. E-mail: info@lopital.nl



The Elexo XXL shower-toilet chair should only be operated by competent personnel who have experience in working with the user target group and have watched the instruction/training videos on the Lopital website.



The Elexo XXL has been developed and produced for use in a professional healthcare environment.



Making changes to the construction may affect the safety of the Elexo XXL. Furthermore, the liability and guarantee conditions of Lopital lapse. As a result, the Elexo XXL no longer complies with the MDR (EU) 2017/745 regulation for medical devices.



If a serious incident occurs involving this medical device and the healthcare provider or client, it must be reported to Lopital or the distributor of the medical device.

1.3. Warranty

All Lopital products are supplied with a 5-year warranty, on construction and / or material faults, unless otherwise stated. In the event of varying warranty terms, the exact period will be indicated on your invoice; this also serves as the warranty itself. Components and batteries that are subject to wear and tear will not fall under warranty unless there are clear construction and / or material faults.

2. Use

2.1. First use

On page 8 you can find the components of the Elexo XXL. These components are the applied parts of the Elexo XXL. These components may come into contact with the user(s) while the Elexo XXL is in use.

2.2. Activating

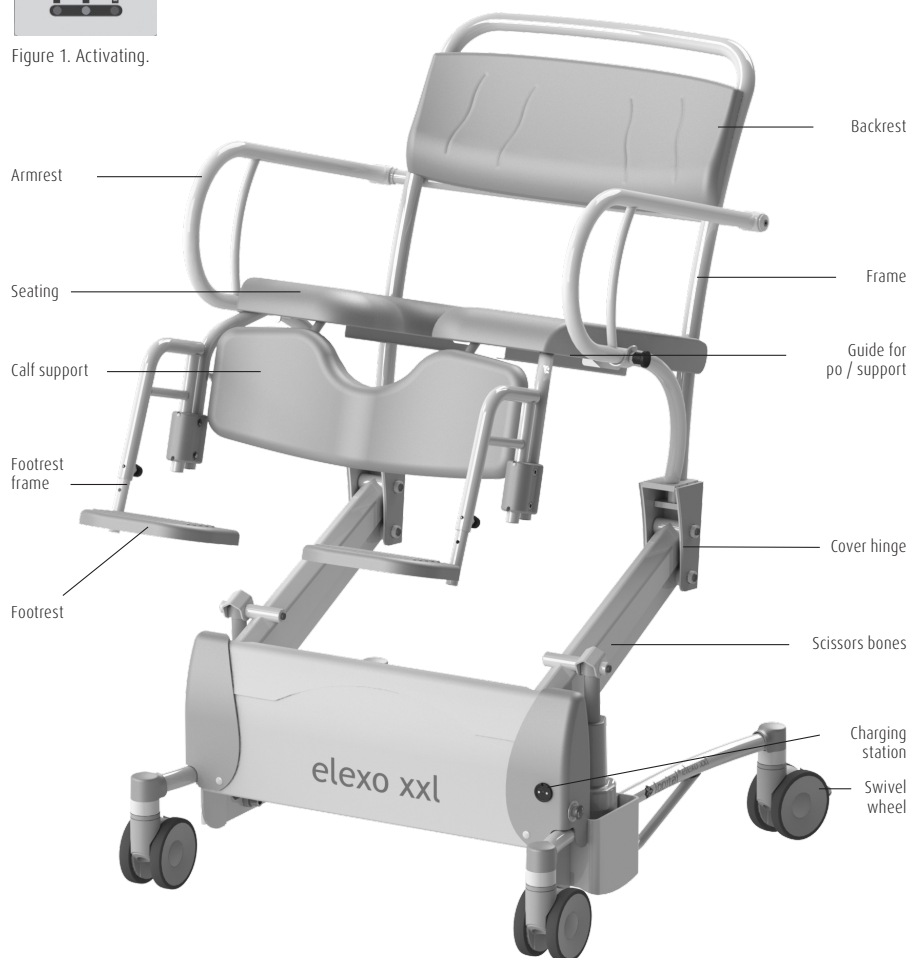
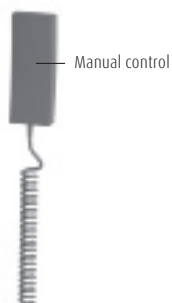
The Elexo XXL must be activated before use, which can be done by pressing any button on the hand control for 2 seconds (*See figure 1*). It may occur that the Elexo XXL goes into sleep mode after a period of time. To deactivate the sleep mode, press any button on the hand control for 2 seconds.



Activate the Elexo XXL by pressing any button for 2 seconds.



Figure 1. Activating.



 **lopital**
 Laarakkerweg 9
 5061 JR Oisterwijk
 The Netherlands
 T: (+31)13-5239300
 CE IP--
 Weight: -- kg / -- lbs
 Type battery: --
 Drive operates: --V
 Charge: --V-- mA
 Non-Continuous: --

GTIN (01) 8720256103---
 (11) YYMMDD
 SN (21) -----
 MAX LOAD -- kg / -- LBS
 Product type

Item no: -----






 Scan for
 information

Tested to:
 UL 60601-1:2005/A2:2010/(R)2012
 CAN/CSA-C22.2 No. 60601-1:14
 E 114029



2.3. Working with the Elexo XXL

Step 1

Disconnect the Elexo XXL from the charger if necessary.

Step 2

Activate the Elexo XXL (*See paragraph 2.2. Activating*).

Step 3

Fold the armrests up or turn the front closure downwards (*See paragraph 3.4. Armrests*).

Step 4

If necessary, fold the foot plates up or turn the footrests on the Elexo XXL away (*See paragraph 3.3. Footrests*).

Step 5

The Elexo XXL must be put on the brakes before transferring persons (*See paragraph 3.1. Wheel blocking*).

Step 6

The client can take a seat in the chair. Support the client if necessary.

Step 7

Place both feet on the footrests and calves against the calf-supports (*See paragraph 3.2. Footrests*).

Step 8

Close the armrests once the client has taken a seat in the chair (*See paragraph 3.3. Armrests*).

Step 9

Notify the client about the processes you will be carrying out.

Step 10

Take the chair off the brake when you wish to move it (*See paragraph 3.1. Wheel blocking*).



Always move the chair in the low position.

Step 11

When you wish to move the chair upwards / downwards, you must apply the brake (*See paragraph 3.5. Moving upwards / downwards*).

3. Operation

3.1. Wheel blocking

- The brake can be applied on the Elexo XXL by pushing the blue lip on the wheel downwards (See figure 2).
- In order to take the Elexo XXL off the brake, the same lip on the wheel must be moved upwards by tapping the upper side of the lip.

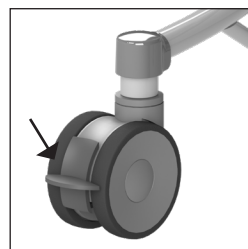


Figure 2. Swivel wheel.

3.2. Steering wheel

- The Elexo XXL is equipped with a steering wheel mounted on the left front side as standard (See figure 3). The direction of the wheel can be locked by pressing down on the green tab on the wheel. This makes pushing over longer distances less strenuous, as the chair will drift less sideways.
- To release the lock, the green tab must be lifted again.

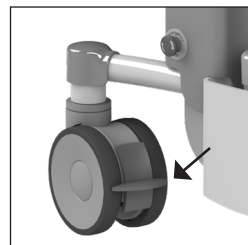


Figure 3. Steering wheel.

3.3. Footrests

- Before the client takes a seat in the Elexo XXL, the footrests must be folded upwards. This will ensure there is sufficient space for the person to easily take a seat in the chair.
- After the client has sat down, the caregiver or client first lifts one leg, and the caregiver then turns the footrest forward until it locks into place. The client can rest his/her foot on the footrest. Then repeat the same procedure for the other leg.
- The footrests of the Elexo XXL are adjustable in length. To do this, pull the tube adjuster loose and select the desired position. Then press the tube adjuster back onto the frame to fix the footrest position.

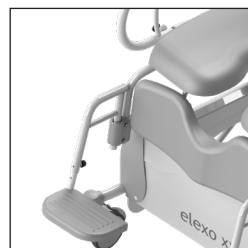


Figure 4. Footrest.



Always replace this component on the chair when you have finished using it. This will avoid the component being lost.

3.4. Armrests

- The independently swiveling armrests are easy to operate.
- Pull the safety latch outward to unlock the armrest (1) (See figure 6).
- The armrest can now be easily swiveled backward (2) (See figure 6 & 7).

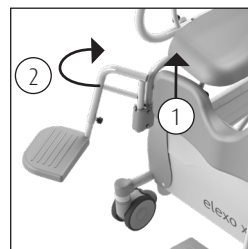


Figure 5. Footrest turn away.

- Always protect the client when folding the armrests up or down.
- The armrests can also be used as support when sitting down and standing up.



When folding the armrests away, avoid the hinging point to prevent possible entrapment.



When folding the armrests away, avoid fingers or body parts becoming entrapped between the armrest and the back support.



The armrests or front closure must not be used as a lever arm (e.g. when moving the chair over an obstacle) or as a push / pull bar. You must not sit on it either. This could damage the Elexo XXL and / or present a hazard.

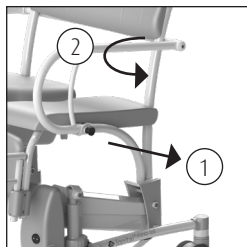


Figure 6. Armrest.



Figure 7. Armrest in turned away position.

3.5. Moving upwards / downwards

Moving upwards

- If the client is seated in the chair, first apply the brakes to the wheels and then move the chair upwards.
- Move the chair upwards by pressing the button that shows an 'up' arrow.
The seat will then move upwards simultaneously (See figure 8).
- You can stop the movement whenever you like by taking your finger off the button.
- During the upward movement, maintain contact with the client.



Figure 8. Moving upwards.



When moving upwards, the position of the chair will tilt from 0° to a maximum of 20° backwards.

Moving downwards

- Move the chair downwards by pressing the button that shows a 'down' arrow.
The seat of the Elexo XXL will move downwards simultaneously (See figure 9).
- You can stop the movement whenever you like by taking your finger off the button.
- During the downward movement, maintain contact with the client.



Figure 9. Moving downwards.



Before moving the chair downwards, check to ensure there are no persons or objects in the vicinity of the chair.

3.6. Toilet function

3.6.1. In combination with toilet

- The Elexo XXL can also be moved over the toilet.
- Once the person has taken a seat and the armrests are closed, the carer must move the Elexo XXL to the appropriate height.
- Move the Elexo XXL, if necessary, upwards or downwards to achieve the right position.
- The Elexo XXL can now be moved backwards over the toilet.
- Lower the Elexo XXL, if necessary, to achieve the right position.



The Elexo XXL does not fit over every toilet.

3.6.2. Use of a bedpan or bucket

- If the Elexo XXL is being used as a toilet chair, the special guides under the seat can be used to accommodate a stainless steel / plastic bedpan or bucket.
- The bedpan or bucket is slid in from the back of the chair (See figure 10).
- If you are using the Lopital plastic bedpan, you must slide it as far forwards as possible (See figure 11).
- If you are using a stainless steel bedpan or bucket, the bedpan can be placed in 2 positions under the seat. At the front of the seat (See figure 12) or at the back of the seat (See figure 13).



In order to avoid injuries, we advise the carer to remove the inlay from the seat and insert the bucket or bedpan before the client takes a seat on the chair.



The Lopital plastic bedpan, stainless steel bedpan and bucket must be cleaned and disinfected after use, for example in a bedpan washing unit.



If the Lopital plastic bedpan, stainless steel bedpan or bucket has been used, it must be removed from the chair before the chair is moved or adjusted in height.

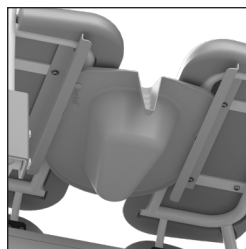


Figure 10. Bedpan.



Figure 11. Lopital plastic bedpan.



Figure 12. Stainless steel bedpan, front.

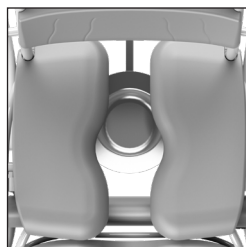


Figure 13. Stainless steel bedpan, back.

3.7 Removable seating

If desired, the seat of the Elexo XXL can be removed from the frame. This makes the seat extra easy to clean. The seat can be removed from the frame without the use of tools. To do this, pull the seat up at the front (See figure 14). To replace the seat, press it back onto the frame. Make sure that the seat fits securely around the frame.



Figure 14. Removable seat.

3.8. Charging battery

- The Elexo XXL is an electrically driven high / low shower-toilet chair and works on a battery.
- The charging point is located on the front of the chair, on the blue cover on the underside of the device (See figure 15).
- If the battery is almost completely empty of charge, the orange light on the manual control will come on; this means that the battery needs to be charged.
- If the LED is on continuous red, the battery must be charged immediately. The chair can then no longer be used.
- Connect the charger to the Elexo XXL (See figure 15).
- Once the charger is connected to the Elexo XXL, the controls will go into 'sleep' setting (all functions are switched off).

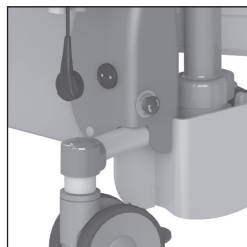


Figure 15. Charging point.



Make sure that you push the plug into the correct position in the charging point.



Only the original charger for the Elexo XXL may be used. If you use another charger, Lopital cannot be held liable for any consequences, such as damage to the electronics.



Once the charger is connected to the Elexo XXL, the controls will go into 'sleep' setting (all functions are switched off).



The charger that must be used for the Elexo XXL is the 'Mascot 2241'.

- When the indicator light on the charger goes green, the battery is charged. The charger can remain connected even when the battery is completely charged. Leaving it connected will not cause any damage.

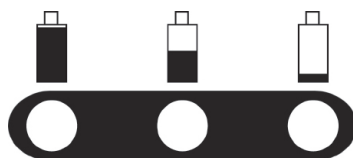


Figure 16. Battery indicator on hand control.

- Disconnect the Elexo XXL from the charger.
- Once activated, the Elexo XXL is now ready for use (*See paragraph 2.2. Activating*).

LED not on:	Chair is in 'sleep' setting and cannot be used.
Green LED is on:	Chair is ready for use.
Orange LED is on:	Battery needs charging or battery is partially charged.
Orange LED blinks:	Emergency stop has been activated.
Red LED flashes:	Battery must be charged (chair is still usable).
Rode led brandt:	Battery is completely empty and must be charged immediately.



Charge battery in a well-ventilated, dry space.



After using the chair, connect it to the charger to maintain the battery.



Charge the chair at least once a week!

For instruction videos go to www.lopital.com or www.youtube.com/user/LopitalNL

4. Safety functions

4.1. Emergency stop

On the left hand side, you will find the emergency stop (*See figure 17*). Operate this button in an emergency; if the upward or downward movement must be stopped immediately. Once the emergency stop has been pressed, the electronic controls will stop working. Operation may be continued once the situation is stable again. Turn the emergency stop a quarter turn to unlock it again (*See figure 18*).

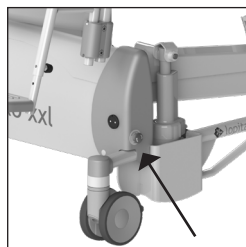


Figure 17. Emergency stop.



Check whether the danger has passed or the problem has been resolved before resetting the emergency stop.



The orange LED on the hand control will flash when the emergency stop has been activated.



Figure 18. Emergency stop.

4.2. Sleep setting

After around an hour, the chair will fall into a 'sleep' setting and the battery indication LEDs on the manual control will go out. In order to use the chair again, it must be activated (*See paragraph 2.2. Activating*).

4.3. Emergency lowering

If the controls stop working and the chair is in a raised position, it can be lowered using the emergency lowering button.

Check first to make sure the chair is not in sleep setting!

- Remove the plug from the manual control (1) (*See figure 19*).
- Press the emergency lowering button (2) (*See figure 19*).

The chair will now return to the lowest position (make sure no persons or objects are under the chair). Take the client from the chair and make sure the device is not used until it has been repaired. Place the chair in a safe place and indicate that it is out of order.

Contact the technical service or Lopital's service department. E-mail: info@lopital.nl

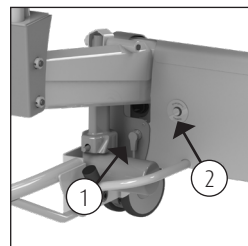


Figure 19. Emergency lowering button.

4.4. On / Off switch

On the right hand side of the cover cap, there is the on / off switch (*See figure 20*). If the chair is out of use for an extended period, you are advised to turn it off. This will prevent any unauthorised use of the chair.

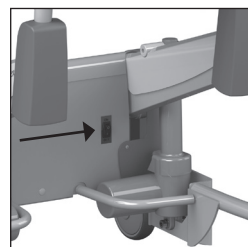


Figure 20. On / off switch.

5. Cleaning and maintenance

The Elexo XXL must be cleaned after every use, with water and regular household cleaning agents. PUR integrated foam components with IMC coating should be rubbed clean and disinfected. Do not use any abrasive or other aggressive cleaning products. If necessary, the PUR components can be disinfected with a solution of 70% ethanol or propanol.

The time the products must be left on the components has a significant impact upon the lifespan of the PUR components. As a result of the material properties of PUR, contact with sharp objects must be avoided. This could lead to damage or tears in the material. Finally, we would like to point out that non-critical parts of the PUR components must also be cleaned and disinfected.

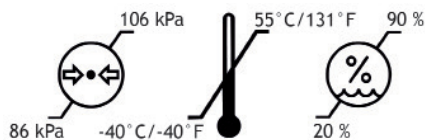
Check the wheels regularly for hairs, dust and soap residues and remove when necessary. Maintenance and repairs to the Elexo XXL may only be carried out by authorised personnel.

Maintenance schedule	
After every use	• Clean chair with water and regular household cleaning products. • PUR foam components must be cleaned and disinfected. • Check to ensure all parts of the Elexo XXL are present, including the footrests, the seat filler piece and the manual control.
Weekly	• Check wheels for hairs, dust and soap residues and remove if necessary. • Check that the chair is still working correctly. • Charge the battery at least once a week.
Annually  The graphic is a circular maintenance schedule for Lopital. It features a clock face with numbers 1 through 12. The word 'YEAR' is in the center. A black arrow points to the 12 o'clock position. To the right of the clock, the text 'Volgende inspectiedatum:' is written vertically. Below the clock, the text 'Service & Onderhoud' is written, followed by 'Tel: +31 (0)13 523 9300' and 'www.lopital.nl'.	• According to the regulation MDR (EU) 2017/745 medical devices, a chair must be maintained according to the manufacturer's guidelines. This process will preferably be carried out by Lopital or another authorised body. Lopital offers the option of having the chair thoroughly inspected and serviced once a year via Periodic Preventative Maintenance. For more information about the maintenance contract, please contact Lopital (info@lopital.nl) or speak to your supplier.

For a detailed explanation regarding cleaning and disinfecting, see the document 'Cleaning and Disinfection Protocol' on our website www.lopital.com/downloads.

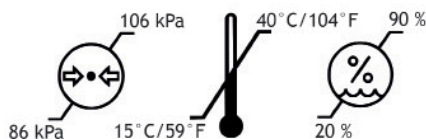
6. Environmental conditions

Conditions during storage and transport



During transport, the seat must be switched off (*See paragraph 4.4. On / Off switch*).

Conditions during use



7. Removal of parts

All parts that are replaced or removed can be sent back to Lopital BV. You may also offer the parts to the engineer for destruction. We will ensure that all parts are processed in an environmentally-friendly manner.

If you take care of disposal of the product yourself, you must take account of the fact that batteries and chargers must be disposed of as small chemical waste.

8. Technical specifications



The Elexo XXL shower toilet chair belongs to category 'BF'.



The Elexo XXL shower toilet chair is a class 2 EMC product.

The Elexo XXL is splash-proof; this means that the Elexo XXL can be used under the shower. This is given with instruction IPX4.

8.1. Structure

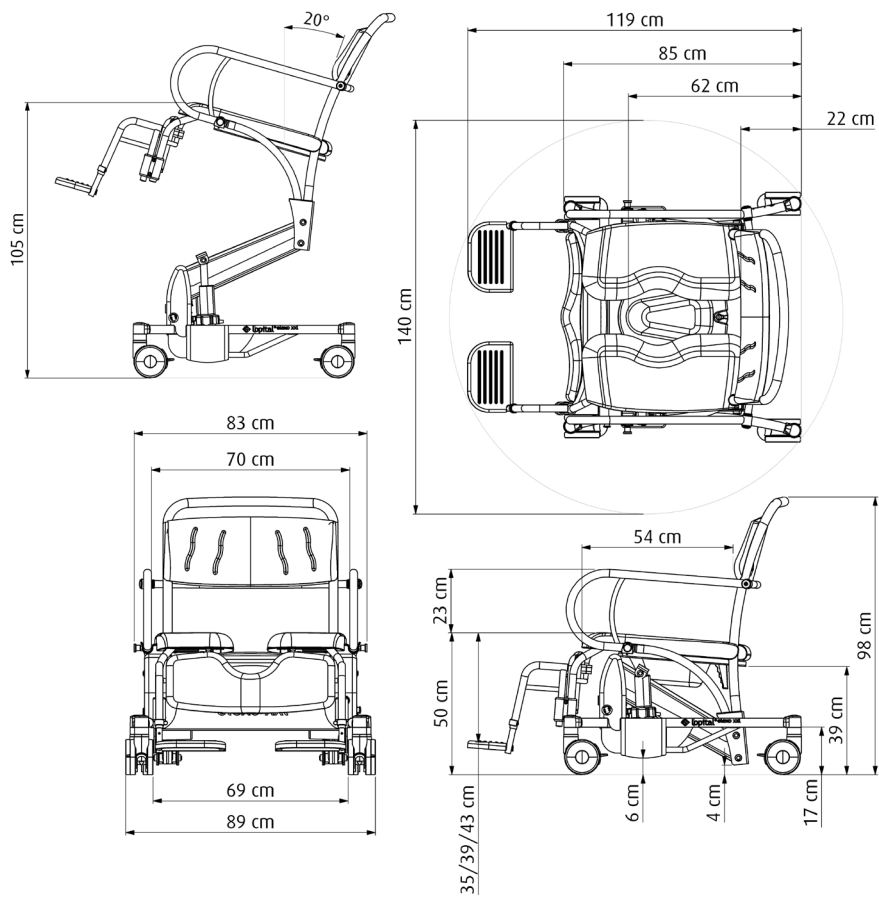
Frame:	Stainless steel and steel tubes and plates that are equipped with a two-layer powder coating
Hinge points:	Stainless steel, cover caps made of plastic V0
Wheels:	Plastic, Ø 12.5 cm / 4.9 inch, double blocking facility
Body support:	PUR (polyurethane).
Weight:	71 kg
Maximum permitted load:	220 kg

8.2. Drive

Drive:	Actuator 24V DC Push Only 8000N
Battery:	Battery capacity 7Ah
Charger:	110-240AC, 50/60Hz, max. 0,35A, cable length 2.8 m

8.3. Dimensions

Surface area:	89 cm wide, 114 cm deep
Seat height:	Adjustable: minimum 50 cm, maximum 105 cm



9. Electromagnetic compatibility

Guidance and Manufacturer's declaration-electromagnetic emissions		
The Elexo XXL is intended for use in the electromagnetic environment specified below. The customer or the user of Elexo XXL should assure that it is used in the following environment:		
Emissions Test	Compliance	Electromagnetic Environment - guidance
RF emissions CISPR11	Group 1	The Elexo XXL uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The Elexo XXL is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/ Flicker emissions IEC 61000-3-3	Complies	

Guidance and Manufacturer's declaration-electromagnetic immunity			
The Elexo XXL is intended for use in the electromagnetic environment specified below. The customer or the user of the Elexo XXL should assure that it is used in the following environment:			
Immunity Test	IEC 60601-1-2 Test level	Compliance level	Electromagnetic Environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be made of wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output cables	±2 kV for power supply lines ±1 kV for input/output cables	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s)	±1 kV line(s) to line(s)	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions, and voltage variations on power supply input lines IEC 61000-4-11	<5% Un (>95% drop in Un) for 0,5 cycle 40% Un (60 % drop in Un) voor 5 cycle 70% Un (30 % drop in Un) voor 25 cycle <5% Un (>95% drop in Un) for 5 seconds	<5% Un (>95% drop in Un) for 0,5 cycle 40% Un (60 % drop in Un) for 5 cycle 70% Un (30 % drop in Un) for 25 cycle <5% Un (>95% drop in Un) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. Elexo XXL is equipped with a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE. Un is the a.c. mains voltage prior to application of the test level.			

Guidance and Manufacturer's declaration-electromagnetic immunity			
The Elexo XXL is intended for use in the electromagnetic environment specified below. The customer or the user of the Elexo XXL should assure that it is used in the following environment:			
Immunity Test	IEC 60601-1-2 Test Level	Compliance Level	Electromagnetic Environment - guidance
RF Common mode/ Conducted Susceptibility IEC 61000-4-6 Radiated RF Electromagnetic Field IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	3 V 3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Elexo XXL, including cables than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2,4 \sqrt{P}$ 800 MHz to 2,5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1. At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Elexo is used exceeds the applicable RF compliance level above, the Elexo should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Elexo XXL. b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.			

Recommended separation distance between portable and mobile RF communications equipment and the Elexo XXL			
The Elexo XXL is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Elexo XXL can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Elexo XXL as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,5 GHz
	d =1,2 √P	d =1,2 √P	d =2,4 √P
0,01	0,12	0,12	0,24
0,1	0,38	0,38	0,76
1	1,2	1,2	2,4
10	3,8	3,8	7,6
100	12	12	24
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watt (W) according to the transmitter manufacturer.			
Note 1. At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. Note 2. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			



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