

Gebruikershandleiding Noa Douchestoel



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Preface

Dear User,

Thank you for choosing MSP Medical Products! We congratulate you on purchasing/providing your Noa Shower/Toilet Chair and wish you many years of ease of use.

It is highly recommended to read this user manual carefully to familiarize yourself with the possibilities offered by this shower/toilet chair.

If you have any questions, please contact your issuer/dealer or us directly, and we will be happy to help you.

Sincerely,




Team MSP

General

MSP recommends ordering original spare parts at all times via msp-medical.com, designed and produced specifically for the Noa Shower/Toilet Seat. This removes the risk of wounding and/or injury caused by non-original third-party parts.

In addition, MSP is continuously developing and improving its products. As a result, we reserve the right to change specifications without further notice.

When the following terms are used in this guide, their meaning is as follows:

-  **WARNING:**
Indien de waarschuwing niet opgevolgd wordt kan dit resulteren in verwondingen aan uzelf en anderen.
-  **PLEASE NOTE:**
Indien de instructies niet opgevolgd worden kan dit leiden tot beschadiging van de gehele stoel of onderdelen daarvan.
-  **REMARK:**
Deze opmerking is belangrijk voor het correct functioneren van de stoel.

Read this manual carefully

We ask you to read this user manual carefully before using the Noa. The information in this manual is essential not only for the proper use and maintenance of this product, but also for optimal protection and performance. Some of the information in this manual is important for your own safety. So please read it carefully to avoid possible injury.

Non-original and unauthorised modifications may affect the safety of your facility and we strongly advise against it. MSP is not responsible for any accidents, incidents or reduced lifespan as a result.

Intended Use




Use of the Noa Shower/Toilet Chair must be in line with the intended use and safety instructions. If there are any uncertainties, please contact us or your dealer/provider.

Designed as a shower/toilet chair, this device is intended to assist hygienic care, primarily in hospitals and healthcare facilities. It can, however, also be used in private environments. This chair aims to make clients' lives more comfortable and ergonomically support caregivers through its design and functionality.

The *right, left, front and rear* directions in this manual should be seen from the position behind the shower chair.

User assessment

This chair is intended for users who comply with the following recommendations:

-  User weight should not exceed 135 kg for the MP-NOA-SD-00100 and MP-NOA-LW-00100; and not exceed 190 kg for the MP-NOA-SD-00200 and MP-NOA-LW-00200
-  User length should be at least 120 cm
-  The user should have sufficient feet/leg functionality to move independently and sufficient core stability to sit independently

Lifetime of device

The technical service life of this chair is at least ten (10) years. However, depending on the intensity of use and charging intervals, the service life of the battery pack may be shorter.

This service life has been calculated under the assumption that preventive maintenance will be carried out as described in this manual.

Depending on wear and tear, some parts, such as the wheels, may need to be replaced during the lifetime of this device.

Application charging cord

This charging cord is for charging the Noa Shower/Toilet Seat only. Charge the battery in accordance with the instructions specified in the assembly and installation instructions. Avoid any other use.

Before working with the Noa, make sure that the charging cord is not plugged in.

Use the Noa only for the applications described above.

Safety Instructions

Below are some essential instructions for the safe use of your device.

PLEASE NOTE

The right, left, front and rear directions in this manual should be seen from the position behind the shower chair.

WARNING

Make sure that the Noa is operated exclusively by trained healthcare professionals.

PLEASE NOTE

Move the Noa carefully, especially in narrow corridors or on rough surfaces.

WARNING

Make sure the client's arms are folded over the chest while transporting.

Make sure the client's feet are on the footrests while transporting.

PLEASE NOTE

Do not mount leg and footrests while lowering the Noa.

WARNING

Ensure that the client's long hair (if applicable) is tied together to avoid hair getting stuck in the mechanism when raising/lowering the chair.

WARNING

Make sure the caregiver does not have a foot on the frame while raising the Noa.

WARNING

Make sure to put the Noa on the brake using all three braked wheels when moving a client in or out of the seat.

PLEASE NOTE

Make sure that the Noa's storage humidity does not exceed 80% with an air temperature of 20 °C (68 °F)

PLEASE NOTE

The Noa's ambient temperature should be between -10 °C to 50 °C (14 °F to 122 °F).




WARNING

If changes are made to the device without the express consent of MSP, the supplier's product liability will expire.




Never lift the Noa by its armrests or seat. Always lift from the base.

Using the charging cord

The following are some essential instructions for the safe use of this facility.













-  Always check the charging cord for breakages and damage before use.
-  Use the charging cord in dry rooms with normal humidity levels.
-  Never expose the charging cord to water or dust.

WARNING!

-  Never expose the charging cord to fire.
-  Do not expose the charging cord to water.
-  Never use the charging cord in the vicinity of flammable, narcotic gases.

Using the battery









Please observe the preparations below when using this facility.

-  Use only the charging cord included with the device.
-  Never charge the Noa Shower/Toilet Seat in a vacuum container.
-  The battery is a fixed part of the seat and may only be replaced or disassembled by qualified personnel.
-  Do not place disassembled batteries near a heat source or open flame.
-  Do not expose disassembled batteries to water.
-  Avoid short circuiting.
-  Never store the Noa or disassembled batteries at temperatures above 50 °C (122 °F).
-  Make sure not to pierce, open or expose disassembled batteries to other mechanical influences.
-  Should the disassembled battery burst, thereby releasing its contents and coming into contact with the skin or clothing, rinse the contaminated area(s) immediately with plenty of water for a minimum of 15 minutes. If the contents of the battery come into contact with the eyes, rinse immediately with plenty of water and consult a doctor.
-  Inhaling the contents or vapours of the disassembled battery can lead to breathing problems. Hypersensitivity to nickel may cause an allergic asthmatic response. In cases of an allergic asthmatic response, find fresh air and consult a doctor.
-  Contact local authorities for the best way to get rid of a used battery.
-  Check labels on the disassembled battery.

Labels on the Noa

Data label Noa with type designation

The following items are listed on this label:

-  Type Noa and chair item number
-  Battery capacity 2100 mAh; battery voltage 25.9 V/DC
-  Maximum lifting weight: 135 kg/300 lbs or 190 kg/420 lbs
-  Version designation
-  Seat serial number
-  IP class and CE logo
-  Read the instructions before use logo
-  Contact details manufacturer (MSP Medical Products)

About the CE mark:

CE mark in accordance with Directive 93/42/EEC (Medical Devices Directive).

The equipment has been EMC tested and meets all requirements in accordance with IEC60601-1-2.

MSP is not aware of any electromagnetic disturbances caused by interactions between the Noa and other electrical products.





Noa Shower Chair MP-NOA-SD-00100

Battery 2500mAh 29.4V/DC
Max. load 135kg/300lb
Full stainless steel frame
Standard version
S/N:



Battery pack data label Noa

The following items are listed on this label:

-  Lithium-ion battery (NMC)
-  Output 25.9 V/D, 2100 mAh, 58.28Wh
-  Battery product number
-  Date of production

Label direction wheel

This label indicates which of the four wheels is the direction wheel.



Label charging socket

This label indicates where to put the charging cord in the chair.



Preparation first use

Please observe the following preparations when using your shower/toilet seat for the first time.

First use

1. Visually inspect the Noa to make sure there is no transport damage to your Noa.
2. Packaging must be disposed of in accordance with the regulations in force.
3. Make sure all parts have been delivered. (You can compare this with the *Parts description* list in this user manual.)
4. Read this user guide carefully.
5. Unpack the charging cord and store it somewhere easy to remember.
6. Charge your Noa for at least twelve hours.
7. Test whether all functions work as explained in the Preventive Maintenance Schedule (PMS).
8. Keep this user guide in a location that is easy to remember for you.
9. Ensure there is a protocol in case of an emergency involving a client.

Before every use

1. Make sure all parts are in the right place and position as described under *Parts description* on page 11.
2. Check accessories and parts for damage. (DO NOT use the Noa if a part is missing or damaged!)
3. **WARNING**
Clean the Noa and all accessories before every use to prevent cross-contamination. (Use the protocol as described under *Cleaning and disinfecting instructions*.)
4. For each client, assess whether a shower belt should be used.

Adjust the headrest and footrests to the correct height for the client.

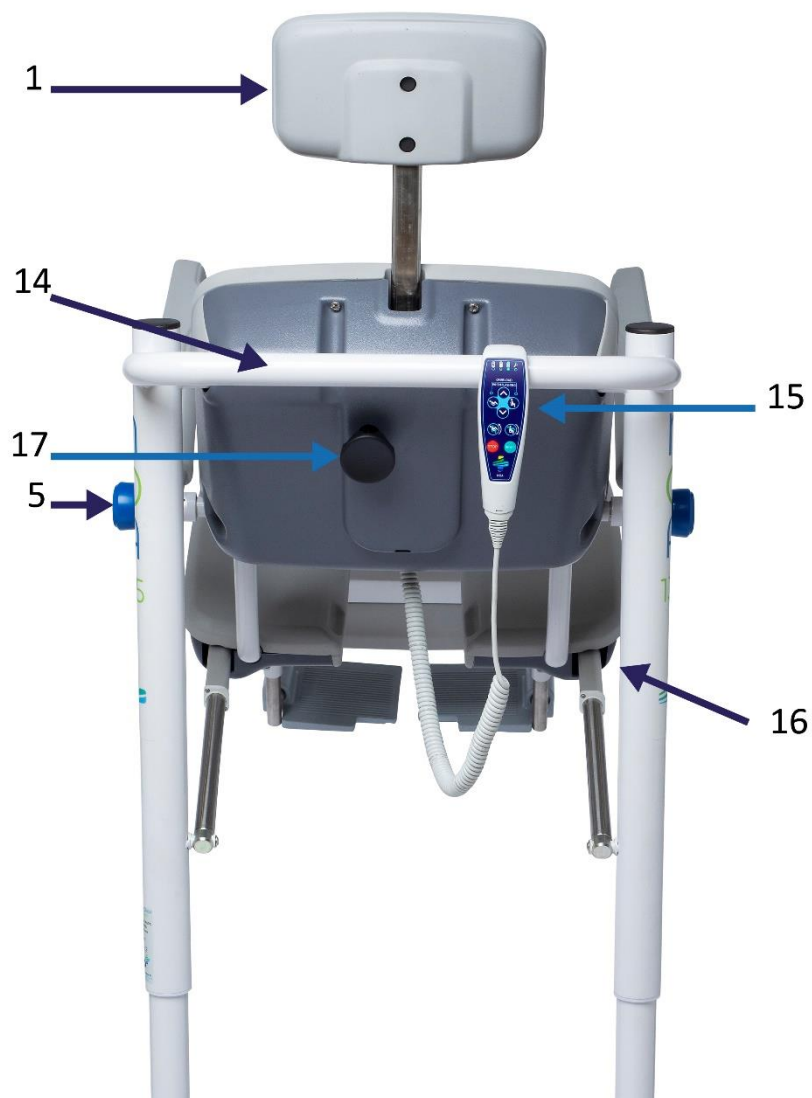
REMARK

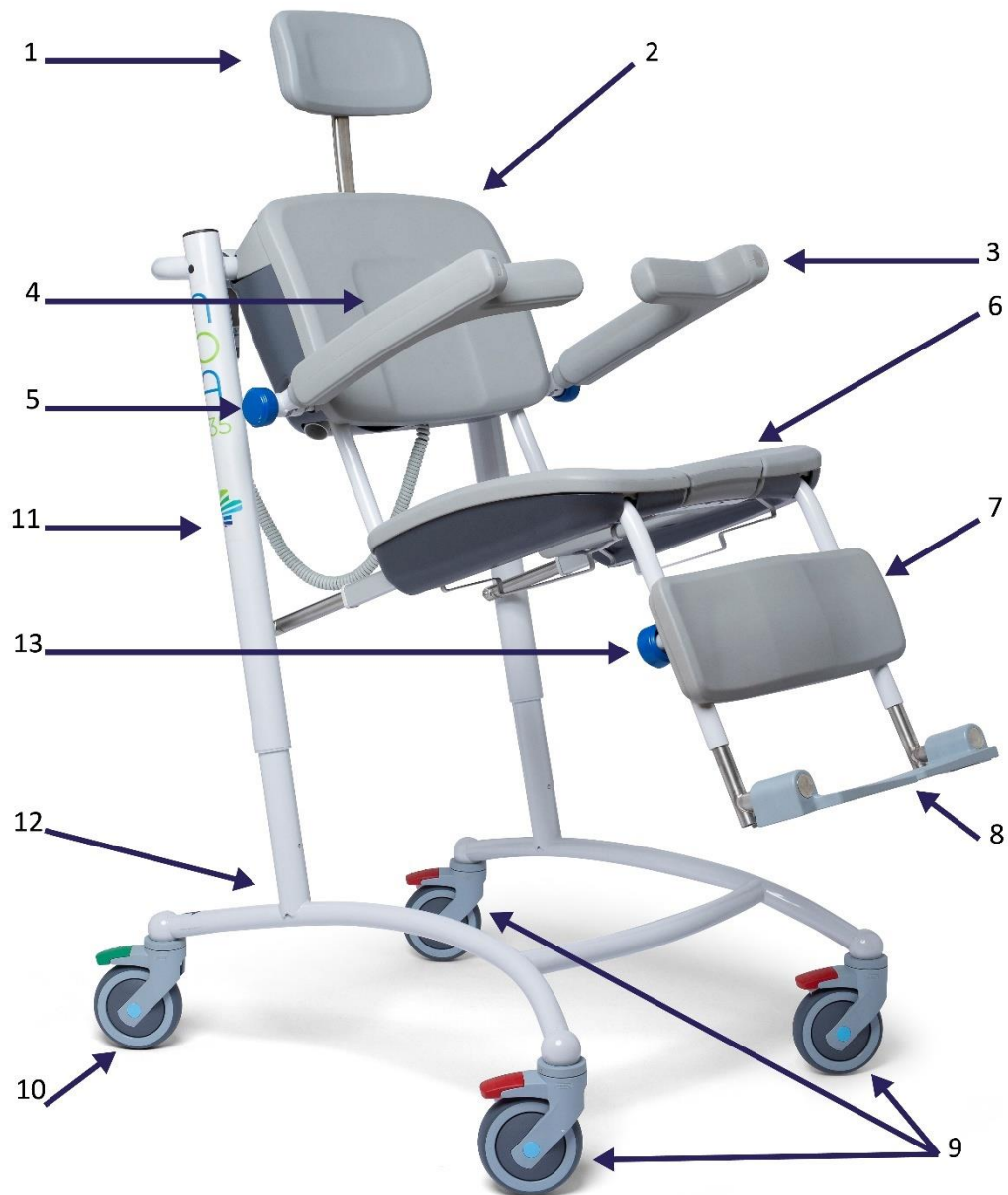
If you have any questions, please contact your dealer/provider or us directly using the contact information in this manual.

Parts description

The Noa includes the following components:

1. Active support headrest
2. Back support
3. Left armrest
4. Right armrest
5. Armrest control button
6. Seat
7. Calf/leg support
8. Foot support (set of two)
9. Braked wheel total lock (red pedal)
10. Castor (green pedal)
11. Top frame
12. Bottom frame
13. Footrest control button
14. Handlebar
15. Manual control
16. Charge socket
17. Depth-adjustment headrest





Product and function description

High/low function:

The Noa is electrically height adjustable thanks to an integrated linear actuator in the frame. This allows you to adjust the seat to an appropriate height above the toilet and to a comfortable height while showering.

You can do this by pressing the high/low buttons on the manual control.



Tilting function:

The client can be tilted forward and backward while showering to increase ease of use for the caregiver. Client comfort is maximised thanks to the active headrest.

The function can be controlled by the tilting buttons on the manual control.



Footrests:

The footrests support the feet while moving the client in the Noa and during the client's toilet visit and/or shower. The footrests have an adjustment range of 250 mm. The caregiver should ensure they are configured properly for the client for optimal support.



WARNING

NEVER use the footrests as a step..

Handlebar:

A handlebar has been mounted on the rear of the frame of the Noa for the caregiver to ergonomically move the Noa. Adjust the Noa to the right height to make sure the handlebar is at an ergonomic height for the caregiver.



Castors:

The Noa comes equipped with three braked castors with total lock function and one direction-fixing castor. We recommend using the direction-fixing castor when longer distances need to be covered with the Noa.

All metal components of the castors are made of stainless steel for maximum service life. The operating tabs of the castors can be operated by foot.



Seat and backrest:

The seat and backrest have an ergonomic design and are made of a special material that adapts to the client's body temperature within seconds. This ensures a comfortable experience for the client.

By tilting the Noa back using the tilting function, the bottom of the seat can be easily cleaned.



Headrest:

This headrest is adjustable in height and depth and provides optimal support to the client from any position the Noa can stand in.



Po with lid (available as accessory)

The po is made of stainless steel and can be fitted to the guide rails under the seat.

Calf support:

The Noa standardly comes equipped with a soft calf cushion. This cushion supports both calves, especially when tilting.



Emergency stop button:

In case of an emergency, all functions can be interrupted immediately by pressing the red button on the handset.



Emergency lowering function (ELD):

If the manual control fails or during any other kinds of problems with the seat, the seat can be moved to the lowest position using the ELF lever. To do this, remove the rubber cover on the side of the frame and turn the seat down with the key.

This process is slower than you may be used to.

PLEASE NOTE

After using the ELF, a service technician must come by for a general check of your NOA.



Battery

The (lithium-ion) battery is built into the seat. It can be charged by inserting the included power cord into the seat's charging socket.

Fully charged, the Noa can perform approximately 40 full cycles with a load of 80 kg.

Charging cord

The included charging cord can be used to charge the Noa. Thanks to the integrated charger in the seat, no external charger is required.

PLEASE NOTE

The charging cord needs to be plugged into the seat first and then into the power outlet. The Noa should only be charged in a dry environment and not in bathrooms or other humid rooms.



Handset

The Noa features a manual control with extensive functionality. Below is a detailed description of the different buttons and LEDs.

L1 Battery status indication — low

L2 Battery status indication — medium

L3 Battery status indication — high

L4 Service interval indicator

L5/L6 Overload indication

B1 Move up

B2 Tilt back

B3 Tilt forward

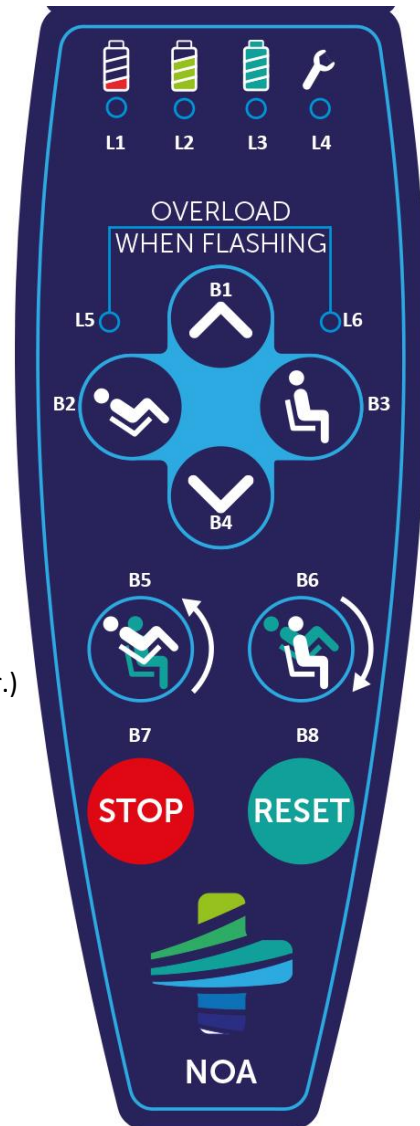
B4 Move down

B5 Simultaneously tilt up and back

B6 Simultaneously tilt down and forward

B7 Emergency stop. (Interrupts the functioning of the whole chair.)

B8 Reset button. (Resets emergency stop B7.)



Special and programming functions of the handset

While charging the Noa

All functions are blocked. When pressing any key, all indication lights will flash simultaneously. The battery status indication LEDs (L1, L2 and L3) indicate the charging status via a flickering light. When the battery is fully charged, the battery status indicator (full (L3)) is continuously on.






Battery Status Indication

After pressing any key, the LEDs (L1, L2 and L3) will display the status of the battery. After two minutes, the manual control goes into sleep mode, and the LEDs will turn off again.



Service Indicator

Switches on if the maximum operating hours between service intervals have been reached or if the maximum number of operating hours of an electrical component has been reached. Can only be reset by an authorised service technician.

Reset tilting actuators

-  Press the B5 and B6 buttons simultaneously for eight seconds. (An audio signal will now sound every 300 ms.)
-  With buttons B2 and B5, the tilting motor can be moved to the left.
-  With buttons B3 and B6, the tilting motor can be moved to the right.
-  Move both motors entirely until the end of the stroke.
-  If no button is pressed for eight seconds, the chair will return to its normal function.

Stop function

-  After pressing the stop button (B7), all functions are blocked. The overload lights (L5 and L6) are continuously on. There is a short beep.
-  After pressing the reset button (B8), the chair will return to its normal function. There's a short double beep.

General operation

Castors

The Noa is standardly equipped with four swivel wheels, three of which have a dual-brake function recognisable by a red lip. These block swivelling and driving.

The wheel on the rear right is recognisable by a green lip and is a directional wheel. When the green lip is operated, the wheel fixes in the direction of travel. This makes driving longer distances a lot more pleasant.

The operating tabs can be operated, both activating and deactivating them, with the bottom of the foot.

Footrests

The Noa standardly comes equipped with two folding and rotatable leg supports. Be sure to place the client's feet on the footrests before driving the chair.

The footrests can be easily raised and turned away by loosening and then tightening the blue, round knob on the back.

By further unscrewing the knob and raising the seat to sufficient height, the leg supports can also be completely removed.

PLEASE NOTE

Reassemble the footrests after taking them off so that they don't get lost.

WARNING

Never use the footrests as a step for the client to use to get into the chair.

Seat cushion

The Noa has a comfortable, anatomically shaped seat cushion. This cushion has an opening in the centre for the toilet function.




Partial seat padding is present. This padding can be placed both at the front and back of the seat.

Optionally, wide padding is available to fully close the seat.

When placing the chair above the toilet, pay close attention to the height of the chair and make sure not to trap the client.

Armrests with front closure

Once the client has taken his or her seat on the NOA, you have three options for the armrests.

-  Front-locking function: the armrests are locked in a horizontal position for the client.
-  Armrest function: the armrests are locked in a vertical position next to the client.
-  No armrests: the armrests stay upwards and run parallel to the back.

WARNING

Do this only for clients with sufficient core stability to prevent them from falling out of the chair.



The armrests can be unlocked by pressing the blue button on the side. The armrests are locked when set to the desired position and an audible and palpable click has been heard/felt.

WARNING

When twisting the armrests, make sure not to trap the client.

Active headrest

The Noa is equipped with an active headrest. The active headrest provides extra head support while tilting the chair. For the best support, configure the headrest as follows:

-  Make sure the client is sitting comfortably and lift the headrest to the right height by sliding it up or down.
-  Afterwards, turn the black button on the back so that the headrest moves toward the back of the client. (Approximately 5 cm from the back of the head is the correct position.)

During the tilting movement, the headrest will move gently forward and offer the client additional support.

If you don't want to use the headrest, simply take it out by sliding it up and taking it out.

PLEASE NOTE

Place the headrest back after removing it so it won't be lost.

Getting in and out of the Noa

Getting in and out – mobile clients

This procedure is only for clients who are mobile and can enter the Noa from a standing position or using walkers.

1. Flip up the footrests so that they do not impede the client. (See the procedure described on page 18.)
2. Flip up the armrests so that they do not impede the client. (See the procedure described on page 19.)
3. Adjust the height of the Noa so that the edge of the seat touches the back of the client's knees.
4. Put the Noa on the brake by lowering the red lip on the three braked wheels. (See the procedure described on page 14.)
5. Undress the client's lower body.
6. Help the client sit down.
7. Flip the armrests back into a locked position in their armrest function. (See the procedure described on page 19.)
8. Make sure the headrest is properly adjusted (as described on page 19).
9. Determine whether the armrests can remain in the armrest function or if they need to be rotated to the front-locking function. (See the procedure described on page 19.)
10. Bring the Noa to a height at which the client can be transported comfortably.
11. Flip the footrests back down and help the client place his or her feet on them if necessary.
12. Move the client to the shower or toilet.

Getting in and out – immobile clients

This procedure is for clients who are placed in the Noa using an active, passive or ceiling hoist.

1. Put the Noa on the brake by lowering the red lock on the three wheels. (See the procedure described on page 14.)
2. Flip up the footrests so that they do not impede the client. (See the procedure described on page 18.)
3. Flip up the armrests so that they do not impede the client. (See the procedure described on page 19.)
4. Adjust the height of the Noa so that you can properly move the hoist.
5. Place the hoist with the client in it as close as possible to the Noa.
6. Undress the lower body of the client if you haven't done so yet.
7. Use the sling to position the client above the seat of the Noa.
8. Lower the hoist until the client touches the seat and is sitting.
9. Fold the armrests down into the armrest function so that they can provide support to the client if necessary. (See the procedure described on page 19.)
10. Loosen the sling and remove it from under the client.
11. Make sure the headrest is properly adjusted (as described on page 19).
12. When using an active hoist, raise the Noa so that the client's feet are elevated above the hoist's support plate.
13. Manoeuvre the hoist away from the Noa.
14. Turn the armrests to the front-locking function if desired. (See the procedure described on page 19.)
15. Raise the Noa to a height at which it can be moved comfortably.
16. Flip down the footrests and, if necessary, help the client to put his or her feet on the supports.
17. Move the client to the shower or toilet.

Moving and showering

There are several ways to move the client sitting in the Noa.

1. Move the Noa from the back using the handlebar.

IMPORTANT

Ensure that the client's feet are on the footrests and that the Noa is set high enough that obstacles on the floor, such as sills or thresholds, glide under the footrests.

2. Move the Noa from the front using the armrests. Please ensure that the armrests are in the front-locking function (as described in the procedure on page 19).

IMPORTANT

Ensure that the client's feet are on the footrests and that the Noa is set high enough that obstacles on the floor, such as sills or thresholds, glide under the footrests.

Follow the steps below to shower the client:

1. Put the Noa on the brake by lowering the red lip on the three braked wheels (as described on page 14).
2. Make sure the headrest is properly adjusted (as described on page 19).
3. Undress the upper body of the client.
4. Raise the Noa to a comfortable height for the caregiver.
5. Take the rest of the client's clothes off.
6. Wash and shower the client. (Optionally, tilt the Noa and optionally flip the armrests up for maximum accessibility.)

IMPORTANT

Only flip up the armrests if the client has enough upper-body stability that he or she will not slip to the side.

Drying and dressing the client

Drying and dressing – mobile clients

This procedure is only for clients who are mobile and can get out of the Noa independently.

1. Put the Noa on the brake by lowering the red lip on the three braked wheels (as described on page 14).
2. Dry all accessible areas of the client with a towel. Do not forget the back of the legs.
3. Dress as much of the client's lower body as possible.
4. Lower the Noa.
5. Dress the upper body of the client.
6. Flip up the footrests so that they do not impede the client. (See the procedure described on page 18.)
7. Flip up the armrests so that they do not impede the client. (See the procedure described on page 19.)
8. Help the client get up and have him or her stand on the floor or rest on a walker.
9. Dry the client's back.
10. Dress the client further.

Drying and dressing – immobile clients

This procedure is for clients who need to be lifted from the Noa using an active, passive or ceiling hoist.

1. Put the Noa on the brake by lowering the red lip on the three braked wheels (as described on page 14).
2. Dry all accessible areas of the client with a towel. Do not forget the back of the legs.
3. Dress as much of the client's the lower body as possible.
4. Lower the Noa.
5. Dress the client's upper body.
6. Flip up the footrests so that they do not impede the client. (See the procedure described on page 18.)
7. Flip up the armrests so that they do not impede the client. (See the procedure described on page 19.)
8. Apply the sling to the client.
9. Place the hoist in the right position for the Noa. In the case of an active hoist, make sure that the client's feet are touching the foot plate of the active hoist.
10. Attach the sling to the hoist. Do this in accordance with the user manual of the hoist in question.
11. Raise the client with the hoist.
12. Dry the client's back.
13. Continue dressing the client.
14. Move the client away from the Noa.

Going to the toilet

The Noa can be used for both standing and suspended toilets. (We recommend a toilet with a relatively high distance between the front of the toilet and the wall.)

1. Place the Noa with the client in it as close to the toilet as possible.
2. Set the chair to an ergonomic height for the caregiver.
3. Place the Noa right above the toilet, lower the Noa as low as possible, and put it on the brake by lowering the red lip on the three wheels. (See the procedure described on page 14.)

WARNING



When lowering the Noa, make sure not to trap the client's genitals between the toilet and the Noa.

4. When the client is ready, remove the Noa from the brake and drive it away from the toilet.
5. Bring the Noa back to an ergonomic height for the caregiver and put the Noa back on the brake.
6. Clean and dry the client.
7. Reconfigure the Noa to the desired height for moving and take the Noa back off the brake.
8. The client is ready to move again.

Cleaning and disinfection instructions

For the best results, use only MSP Medical Chemicals products.









We recommend the following products for your Noa:

-  MSP Medical Chemicals All-purpose Cleaner
-  MSP Medical Chemicals Disinfectant



Make sure you have the Material Safety Data Sheets (MSDS) of these chemicals on hand.

We recommend using the following accessories while cleaning your Noa:

-  Protective gloves
-  Protective goggles
-  Spray bottle with disinfectant (mixed in the correct proportions according to prescription)
-  Water spray bottle or shower head
-  Disposable microfibre cloth
-  Disposable towel
-  Soft brush
-  Extra-long soft brush

REMARK

Do you have questions about cleaning your Noa? Please contact us or your dealer and we will gladly assist you.

REMARK

The procedure described below should be performed after each client and also executed at the end of the day.

WARNING

Always wear protective gloves and goggles when using concentrated agents. Avoid contact with skin and eyes. Rinse the skin and eyes with a large amount of water if they come in contact with the agents. Ask for medical advice if irritation occurs.

WARNING

To avoid cross-contamination, always follow the procedure on page 24 when cleaning and disinfecting your Noa.

WARNING

Never use the all-purpose cleaner or disinfectant in front of the client.

Roadmap cleaning Noa

You can clean the Noa using the roadmap below:

Removal of residue

1. Take the headrest out of the Noa and take the padding from the seat.
2. Clean the Noa and headrest/padding by spraying them with all-purpose cleaner and wiping them off with a damp microfibre cloth.


Cleaning and disinfecting the Noa

1. Put on safety goggles and safety gloves.
2. Take the spray bottle with disinfectant and spray the Noa and headrest/padding.
3. Allow the agents to soak in for about two minutes.
4. Take a soft brush, immersed in disinfectant, and clean the entire chair and all loose parts.
5. Rinse thoroughly with water at room temperature until all the disinfectant has been rinsed off.
6. Take a microfibre cloth and moisten with water.
7. Wipe the chair with this cloth from top to bottom and rinse regularly under running water.
8. Dry the chair with disposable towels until it is completely dry and place headrest and padding back on the Noa.
9. Dispose of the used microfibre cloths and towels in accordance with the current directive and clean the brush according to the applicable prescription.

Battery instructions

WARNING

To avoid injuries, make sure **NEVER** to [...] the battery:

-  **Shatter**
-  **Puncture**
-  **Open**
-  **Dismantle**

If the battery case opens and its contents come into contact with your skin and/or clothes, rinse with large amounts of water immediately.

If the contents of the battery come into contact with your eyes, rinse with large amounts of water immediately and seek medical attention.




Inhalation of contents can lead to respiratory irritation. If this occurs, find fresh air and request medical attention

WARNING

To prevent the battery from overheating and becoming an explosion hazard, DO NOT expose the battery to fire or disproportionate heat sources.

Storage

If you haven't used your device for a longer period of time, please note the following:

-  The battery will slowly run out if not in use. We recommend charging the battery at least once every three months using the included charging cord to extend its life.
-  When not in use, the storage temperature of the battery should be between 0 °C and 30 °C.
-  For maximum performance, do not expose the battery to temperatures above 50 °C.

Charging

For maximum life, we recommend charging the battery at regular intervals. (For example, every evening or every two days, depending on the intensity of use.)

Charge the battery by plugging the included charging cord into the Noa and then plugging it into the power outlet. Always check the charging cord for damage or breakage before charging. The LEDs on the manual control display charging progress.

When it is charging, the Noa's functions are blocked. If you press a key on its manual control, all LEDs will flash, signifying that the charging cord is still plugged in.

PLEASE NOTE

Only charge the Noa in a dry, well-ventilated area

Maintenance and end of life

Your Noa's battery does not require maintenance. In case of failure, never open the battery yourself, but contact your dealer for a service appointment.

If you notice that the battery's charge is running out quickly, it's probably worn out. Please contact your dealer/provider or us for a new one.

Old batteries must be disposed of in accordance with the regulations in force.

Preventative Maintenance Schedule (PMS)

Unfortunately, your Noa will not be able to avoid wear and tear. If you perform the following points within the specified intervals, you can minimise wear and take full advantage of its service life.

The work that falls under the end user's responsibility should be carried out solely by qualified personnel. If your Noa shows anomalies or failures, both visually and functionally, please contact your dealer or MSP for support.

Daily

The Noa should be cleaned immediately after use. Use the recommended MSP Medical Chemicals cleaners in the recommended concentrations. (Follow the instructions described on pages 23-24.)

WARNING

Do not use phenol, petroleum-based solvents, trichloroethylene or similar detergents. These substances can damage the plastic parts of the Noa. Sterilisation using steam or ethylene oxide is also prohibited.

Weekly

Visually check all exposed parts, especially areas that come into contact with the client or caregiver. Verify that no cracks or sharp edges, which could potentially injure or cause unhygienic situations for the client or caregiver, have arisen.

Replace damaged parts.

Visual checking of mechanical fasteners. Make sure that all screws and bolts are tightly fixed and there are no gaps.

Manual control and cable check. Visually check the manual control and cable of the manual control. For defects, such as cracks or fractures, contact your dealer or MSP.

Make sure the wheels are well attached and rolling well. Wheel movement can be impaired by soap, hair, dust, and chemicals on the floor. Contact your dealer if necessary.

Visually check the charging cord. Replace immediately if it is damaged.

Annually

The Noa must be maintained according to the Preventive Maintenance Schedule (PMS). (See the table on the next page.)

Preventative Maintenance Schedule

Action point	Daily	Every Week	Every 12 months	Every 24 months
Rinse/disinfect	E			
Visual check all exposed parts		E		
Visual check all mechanical fixings		E		
Check manual control and the cord		E		
Check wheels		E		
Visual check charging cable		E		
Check/clean footrests			S	
Check/clean armrests			S	
Check/clean/lubricate wheels			S	
Check emergency stop function			S	
Check emergency lowering function			S	
Perform maximum load test			S	
Check essential parts for rust			S	
Check function all mechanical and electrical functions			S	
Review and update software version			S	
Check charging cord and battery			S	
Replace wheels				S
Check high/low mechanism				S
Check tilting mechanism				S
Legend:	E = End user	S = Service technician		

WARNING

To prevent injuries, never modify your device or use incompatible parts.

WARNING

Maintenance should be carried out by qualified maintenance experts, who are using the right tools and understand the procedures. Failure to comply with these requirements may result in bodily injury and/or an unsafe device.

Alarms and beeps

Thanks to a buzzer in the control box, the Noa can produce beeps that indicate there is a malfunction present or a situation has arisen that requires attention. Below is an overview of these signals.

Situation	Audio signal	Comments
Pressing red stop button manual control (B7)	One beep of 50 ms	
Pressing green reset button manual control (B8)	Two beeps in a row of 50 ms	
User weight overload	Continuous beeps with intervals of 50 ms	Beep will remain audible as long as a button on the manual control remains pressed. Max. user weight Noa 135 is 135 kg. Max. user weight Noa 190 is 190 kg.
Battery capacity is low (<10% remaining)	Continuous beep	Beep is audible as long as a button on the manual control remains pressed. Charge the battery with the charging cord.

Technical specifications

General

Maximum total weight	Noa 135: 183 Kg; Noa 190: 238 kg
Maximum client weight	Noa 135: 135 kg; Noa 190: 190 kg
Weight of [chair name]	48 kg
Model and type	Noa Standard 135, Noa Low 135, Noa Standard 190, Noa Low 190
Colour	Grey, RAL 7047
IP class	IP X6
Battery item number	MSP-A-MP-01600
Battery technology	Lithium ion
Battery capacity	2.25 Ah
Battery voltage	25.2 V/DC
Charge cord article number	MSP-C-AC-005/006/007/008 depending on region
Nominal charge current	300 mAh
Maximum charging voltage	29.4 V/DC
Maximum turn-on time	2 min. ON/18 min. OFF
Maximum Sound Pressure	63 dB

Usage, Transport and Storage

Temperature	0 °C to 50 °C when in use -10 °C to 50 °C during transport -10 °C to 50 °C when stored
Humidity	15-95% at 20 °C in use 10-80% at 20 °C during transport 10-80% at 20 °C when stored
Air pressure	800 hPa up to 1060 hPa in use 500 hPa up to 1100 hPa during transport 500 hPa up to 1100 hPa when storage

Recycling

This chair needs to be recycled according to national regulations.

Battery	Lithium-ion. (Don't throw away! Only recycle!)
Packaging	Recyclable wood and cardboard
Noa	Electrical, metal and plastic parts must be separated and recycled according to national regulations

Size and range

Base width	650 mm
Width between legs	450 mm
Bottom clearance undercarriage	160 mm
Chassis length	750 mm
Turning circle	1100 mm
Sitting lowest position with 80 kg load	480 mm Noa Standard 135 and Noa Standard 190 380 mm Noa Low 135 and Noa Low 190
Sitting top position	880 mm Noa Standard 135 and Noa Standard 190
Sitting top position tilted	1080 mm Noa Standard 135 and Noa Standard 190
Stroke length high/low function	400 mm
Tilting function stroke length	250 mm
Noa height maximum	1750 mm
Noa height minimum	1350 mm
Length Noa in top position	1200 mm
Noa length in lowest position	970 mm



Spare parts and accessories

Accessories

Article number	Description
MP-PM-NOA-01613	Seat belt Comfort+ size S
MP-PM-NOA-01614	Seat belt Comfort+ size M
MP-PM-NOA-01615	Seat belt Comfort+ size L
MSP-OV-MP-01600	Po with stainless-steel lid
MSP-PD-MP-01601	Small fill piece
MSP-PD-MP-01602	Large fill piece
MCM-DI-MP-01600	Disinfectant spray bottle 500 ml
MCM-AR-MP-01600	All-purpose cleaner spray bottle 500 ml

Recommended parts

Article number	Description
MSP-A-MP-01600	Battery pack 25,9 V/DC 2250 mAh Lithium-ion
MSP-C-AC-005	Power cord EU Noa 3.2 m
MSP-EK-MP-01600	Control box Noa universal
MSP-MO-MP-01600	High/low motor Noa
MSP-MO-MP-01601	Tilting motor Noa
MSP-HH-MP-01600	Noa eight-button manual control with LED
MSP-WH-MP-01610	Wheel double braked Ø125 mm Noa stainless steel
MSP-WH-MP-01612	Turning wheel Ø125 mm Noa stainless steel
MSP-PD-MP-01605	Complete headrest

EC declaration of conformity

We, MSP Production B.V.
De Sonman 7
5066 GJ Moergestel
The Netherlands

Declare that: Electrically adjustable Shower/Toilet Seat
Brand Name Noa

Type: Noa Standard 135, Noa Standard 190,
Noa Low 135, Noa Low 190

With serial numbers MPNOA***** (* has a value between 0-9)

- Is compliant with Directive MDR EU 2017/745 (Medical Devices Directive) and is classified as Class 1
- The Noa has been safety tested in accordance with:
 -  EN 10535
 -  EN 12182
 -  EN 60601-1
 -  Bio compatibility ISO 10993
- The Noa has been EMC tested and meets all requirements
 - o Emission EN 60601-1-2 (2007) + AC (2010)
 - o Emission EN 61000-3-2 (2006) + A1 (2009) + A2 (2009)
 - o Emission EN 61000-3-3 (2008)
 - o Immunity EN 60601-1-2 (2007) + AC (2010)
- The internal power source/battery has been safety tested according to IEC60601-1, ANSI/AAMI ES60601-1, CAN/CSA-22.2 No 60601-1, IEC62133, UL2054, UN38.3 (needed for transport of lithium batteries)

MSP-Production B.V. is not aware of any electromagnetic disturbances caused by interactions between the Noa and other electrical products.

Technical file compiled by L.J.M.G. Dhanpat.

The Netherlands, Moergestel, 01-10-2022
L.J.M.G. Dhanpat, managing director

MSP-Production B.V.



EMC Compatibility

Manufacturer guidelines and declaration — electromagnetic emissions

The Noa is intended for use in the electromagnetic environment specified below. The Noa customer or user must ensure that the seat is used in such an environment.

Emission test	Compliance	Electromagnetic environment guidelines
RF emissions CISPR11	Group 1	The Noa uses RF energy only for internal functions. As a result, the RF emissions from the chair are very low and are not likely to interfere with nearby electronic equipment.
RF emissions CISPR	Class B	The Noa is suitable for use in buildings, including homes and buildings directly connected to the public low-voltage network in residential buildings.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations Flicker Emissions IEC 61000-3-3	Compliant	

Manufacturer's guidelines and statement — electromagnetic immunity

The Noa is intended for use in the electromagnetic environment specified below. The Noa customer or user must ensure that the device is used in such an environment.

Immunity test	C 60601-1-2 test level	Compliance level	Electromagnetic environment guidelines
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV atmosphere	±6 kV contact ±8 kV atmosphere	Floors should be wood, concrete or ceramic tiles. If floors are covered with synthetic material, the relative air humidity should be at least 30%.
Electric jump voltage/peaks IEC 61000-4-4	±2 kV for power cables	±2 kV for power cables	Mains voltage quality must be equal to that of a standard shopping centre or hospital environment.
Overvoltage IEC 61000-4-5	±1 kV line to line	±1 kV line to line	Mains voltage quality must be equal to that of a standard shopping centre or hospital environment.

<p>Voltage relapse, short power outages and voltage fluctuations on power cables IEC 61000-4-11</p>	<p>(95% decline in Un) For 0.5 cycle, 40% Un (60% decline in Un) For 5 cycle, 70% Un (30% decline in Un) For 25 cycle, <5% Un (95% decline in Un) for 5 seconds</p>	<p>(95% decline in Un) For 0.5 cycle, 40% Un (60% decline in Un) For 5 cycle, 70% Un (30% decline in Un) For 25 cycle, <5% Un (95% decline in Un) for 5 seconds</p>	<p>Mains voltage quality must be equal to that of a standard shopping centre or hospital environment. The Noa comes with a battery.</p>
<p>Power frequency 50/60 Hz Magnetic Field IEC 61000-4-8</p>	<p>3 A/m</p>	<p>3 A/m</p>	<p>Mains frequency magnetic fields should be kept at standard levels for locations in a typical commercial environment or hospital environment.</p>

