CARENDO
Operating and Product Care Instructions

04.CC.01/8GB
September 2009
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>4</td>
</tr>
<tr>
<td>Safety Instructions</td>
<td>5</td>
</tr>
<tr>
<td>Intended use</td>
<td>5</td>
</tr>
<tr>
<td>Part designations</td>
<td>7</td>
</tr>
<tr>
<td>Product description/function</td>
<td>8</td>
</tr>
<tr>
<td>Reclined function</td>
<td>8</td>
</tr>
<tr>
<td>Lifting function, high/low</td>
<td>8</td>
</tr>
<tr>
<td>Care Raiser</td>
<td>8</td>
</tr>
<tr>
<td>Leg support</td>
<td>8</td>
</tr>
<tr>
<td>Driving handles</td>
<td>8</td>
</tr>
<tr>
<td>Maneuver handles</td>
<td>8</td>
</tr>
<tr>
<td>Castors</td>
<td>8</td>
</tr>
<tr>
<td>Security strap</td>
<td>8</td>
</tr>
<tr>
<td>Handset</td>
<td>10</td>
</tr>
<tr>
<td>Seat cushion</td>
<td>10</td>
</tr>
<tr>
<td>Backpillow (accessory)</td>
<td>10</td>
</tr>
<tr>
<td>Battery</td>
<td>10</td>
</tr>
<tr>
<td>Battery charger</td>
<td>10</td>
</tr>
<tr>
<td>Emergency lowering</td>
<td>12</td>
</tr>
<tr>
<td>Emergency stop</td>
<td>12</td>
</tr>
<tr>
<td>Storage net</td>
<td>12</td>
</tr>
<tr>
<td>Bedpan and bedpan holder</td>
<td>12</td>
</tr>
<tr>
<td>Independent residents</td>
<td>14</td>
</tr>
<tr>
<td>Dependent residents</td>
<td>16</td>
</tr>
<tr>
<td>To the shower</td>
<td>18</td>
</tr>
<tr>
<td>To the toilet</td>
<td>20</td>
</tr>
<tr>
<td>Cleaning</td>
<td>22</td>
</tr>
<tr>
<td>Battery and Battery charger</td>
<td>23</td>
</tr>
<tr>
<td>Installation</td>
<td>23</td>
</tr>
<tr>
<td>Charging batteries</td>
<td>23</td>
</tr>
<tr>
<td>Maintenance</td>
<td>23</td>
</tr>
<tr>
<td>Storage of batteries</td>
<td>23</td>
</tr>
<tr>
<td>Care and Preventive Maintenance</td>
<td>24</td>
</tr>
<tr>
<td>Preventive Maintenance Schedule</td>
<td>24</td>
</tr>
<tr>
<td>Technical specification</td>
<td>27</td>
</tr>
<tr>
<td>Labels on battery and battery charger</td>
<td>29</td>
</tr>
<tr>
<td>Labels on the lift</td>
<td>30</td>
</tr>
</tbody>
</table>
Thank you for purchasing ARJO equipment. Your Carendo shower and toilet chair is part of a series of quality products designed especially for hospitals, nursing homes and other health care use. We are dedicated to serving your needs and providing the best products available along with training that will bring your staff maximum benefit from every ARJO product. Please contact us if you have any questions about the operation or maintenance of your ARJO equipment.

Please read this manual thoroughly! Please read this manual in its entirety before using your Carendo shower and toilet chair. Information in the manual is crucial to the proper operation and maintenance of the equipment, and will help protect your product and ensure that equipment performs to your satisfaction. Some of the information in this manual is important for your safety and must be read and understood to help prevent possible injury. ARJO strongly advise and warn that only ARJO designed parts, which are designed for the purpose, should be used on equipment and other appliances supplied by ARJO, to avoid injuries attributable to the use of inadequate parts.

Unauthorized modifications on any ARJO equipment may affect its safety. ARJO will not be held responsible for any accidents, incidents or lack of performance that occur as a result of any unauthorized modification to its products.

Service and Support
Service should be performed regularly on your Carendo every year by ARJO qualified personnel to ensure the safety and daily operation of your product. See chapter Care and Preventive Maintenance.

If you require further information, please contact your local ARJO representative who can offer comprehensive support and service programs to maximize the long-term safety, reliability and value of the product. Contact your local ARJO representative for replacement parts. Your service representative stocks the parts you will need.

The telephone number appears on the last page of this manual.

Study the DVD for your Carendo.
A DVD accompanies this manual. Please note that the DVD does not replace the information in this manual as the latter also contains additional important safety instructions.

Definitions in this manual:

**WARNING**

Means:
Safety warning. Failure to understand and obey this warning may result in injury to you or to others.

**CAUTION**

Means:
Failure to follow these instructions may cause damage to all or parts of the system.

**NOTE**

Means:
This is important information for the correct use of this system or equipment.

The directions right or left in this manual are given as below

![Diagram of right and left directions]
Safety Instructions

The equipment must be used in accordance with these safety instructions. Anyone using the equipment must also have read and understood the instructions in this manual.

If there is anything you are not sure about, contact your ARJO representative.

Intended use
This equipment is intended for hygiene care, showering and toileting of residents in hospital, nursing home or other similar environment. Carendo must be used by appropriately trained caregivers with adequate knowledge of the care environment, its common practices and procedures, and in accordance with the guidelines in the Operating and Product Care instructions (this document).

Resident assessment
We recommend that facilities establish regular assessment routines. Caregivers should assess each resident according to the following criteria prior to use:

- The resident’s weight should not exceed 136kg / 300 lbs.
- The resident should understand and respond to instructions to stay seated in an upright position.

If a resident does not meet these criteria an alternative lift shall be used.

Battery charger
This charger is intended for charging ARJO battery NEA 0100 only, in accordance with the instructions outlined in the Operating and Product Care instructions.

The equipment must only be used for the purposes stated above.
The useful life of this equipment, unless otherwise stated, is ten (10) years, subject to preventative maintenance being carried out in accordance with the instructions for care and maintenance found in this manual.

NOTE
 Modifications made to the equipment without expressed written consent of ARJO will invalidate the supplier’s product liability.

NOTE
All materials used in this product complies with established biocompatibility standards and have been tested accordingly (ISO 10993).
To avoid the possibility of injury always ensure that:

- the equipment is used by appropriate trained staff.
- Carendo is moved with care, especially in narrow passages and over uneven surfaces.
- Carendo is lowered to its ergonomically correct height during transportation.
- the resident’s arms are crossed over the chest during transportation.
- the resident’s feet are clear off the floor during transportation.
- the resident’s legs don’t move away from the leg support.
- nobody is touching parts of the lift which are in relative movement to each other when the lift is activated.
- the direction of driving during transportation is according to the illustration below.
- when moving a resident to or from Carendo the brake is activated.
- the brake always is activated when Carendo is not in use.
- the seat cushion is used.

Battery charger safety practices:

- The charger is designed for dry areas only and for normal air humidity conditions.
- Don’t expose the charger to water or dust.
- The charger must not be covered.

Battery safety practices:

- Use only the charger supplied with the equipment.
- Do not charge batteries in a sealed container.
- Be careful not to drop the battery.
- Do not place batteries near a heat source or fire.
- Do not short-circuit the battery.
- Do not store batteries at a temperature higher than 50 °C (122 °F).
- Do not crush, puncture, open, dismantle or otherwise mechanically interfere with the batteries.
- Should the battery casing crack and cause contents to come in contact with skin or clothing, rinse immediately with water. If contents come in contact with the eyes, rinse immediately with plenty of water and seek medical attention.
- Inhalation of the contents can cause respiratory irritation. Sensitivity of nickel can cause allergic asthma. Provide fresh air and medical attention.
- Contact the appropriate local authority for advice when disposing of batteries.
- Check labels on the battery.

**WARNING**

Don’t expose the batteries or chargers to flames.

Don’t expose the battery connector to water.

Don’t use the charger in presence of inflammable anesthetic gases.

**NOTE**

Do not lift the Carendo using the armrests; use the chassis.

Only one function movement (e.g reclined function) can be done at a time.

Pushing on more than one button at a time will stop all movements.
Part designations

1 Chassis
2 Care Raiser
3 Castors
4 Lifting frame
5 Backrest
6 Neckpillow
7 Transport handles
8 Maneuvering handles
9 Storage net
10 Security strap
11 Seat
12 Leg support
13 Armrests
14 Handset
15 Battery
16 Battery charger
17 Battery holder
18 Seat cushion
19 Bed pan holder (optional)
20 Bed pan (optional)
21 Back pillow (optional)
Reclined function
A function which makes hygienic care of the resident easier (1).
From a sitting position, a reclined position can be achieved by means of turning gears which makes the backrest move in backwards and upright directions.
Corresponding to this movement the legrest is moving up and down.

Lifting function, high/low
The resident can, in a sitting position, be transported and the chair can be adjusted to a suitable height over the toilet (2).
The lifting/lowering movement is performed by a linear actuator driven by an electric motor.

Care Raiser
A function which makes undressing and changing of incontinence pads of the resident easier (3).
From a sitting position, a raising of the posterior parts of the resident and at the same time a backwards movement of the backrest (4) is activated. These movements are synchronized to each other.

WARNING
Always ensure that the seat cushion is used to protect the resident from pinching.

Leg support
Supports the resident’s legs, and also prevents the legs from getting jammed under the seat.
Moves forward when the chair is adjusted to the reclined position.

Driving handles
Driving handles (5) on the backrest give correct driving position for the caregiver.

Maneuver handles
The maneuvering handles on the backrest (6) help the caregiver to get the chair in the correct position over the toilet and in the shower.

Castors
Carendo is equipped with lockable castors (7).

Security strap
The strap will secure the resident in the chair.
Fasten at the knobs on either side of the backrest and adjust length by means of the holes (see illustration 8 for correct fastening position).
Secure the resident with the strap if needed.
Handset
Connect the contact of the handset on the right side of the backrest (1a). Normally, the handset should not be disconnected from the chair. If a disconnection is needed when a new unit should be mounted, loosen very carefully by means of the snap-in socket. The handset has a hook on the back, making it easy to attach it to various parts of the chair (1b).

- Green LED, flashing when the Care Raiser is possible to activate (2A).
- Care Raiser and sitting position (2B).
- Reclined and sitting position (2C).
- Arrow pointing upwards/downwards for raising or lowering (2D).

**NOTE**
A buzzing tone will be heard and the green LED is flashing when sitting position is reached.

**NOTE**
Care raising can only be activated when the green LED is flashing.

Seat cushion
A seat cushion that provides comfort and protection against pinching (6a-d).

Battery
The battery is placed at the left side of the chair (7).

**NOTE**
See to that the rounded ridge of the battery is turned upwards.

Back pillow (accessory)
An additional pillow to support the back.
An integrated easyglide function when the chair is adjusted to reclined position. Easy to adjust according to the length of the resident (3-4). See separate instructions accompanying the product.

Battery charger
The battery holder should be attached to a suitable wall and the charger connected to a properly grounded wall socket (5).

**NOTE**
The battery charger is designed for use in a dry location and should not be installed in bathrooms, etc.

See separate instruction on page 23.

Type no:
NEA 1000-EU (Europe except for Great Britain)
NEA 2000-UK (Great Britain)
NEA 4000-US (USA, Canada and Japan)
NEA 6000-AU (Australia)
NEA 7000-JP (Japan)
Emergency lowering
In case of electrical malfunction, the chair can be lowered by pushing the green button (1).

NOTE
This function should only be used in emergency.

Emergency stop
In any case of emergency, all functions can be stopped by pushing the red button (2a).
To reset this function, turn the red button clockwise (2b).

Storage net
A net on the backside of the backrest where shampoo, soap, incontinence pads etc. can be kept (3).

Bedpan and bedpan holder
A bedpan holder can be mounted under the seat (4a).
Assemble according to the illustration:

1  Remove the screws from the two holes in each side of the seat.

2  Fasten the holders with the enclosed screws.

3  Put the bedpan in place to be guided on the holders (4b).

WARNING
Make sure that genitals of the resident don’t get jammed between bedpan and chair.
Independent residents

<table>
<thead>
<tr>
<th>WARNING</th>
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</thead>
<tbody>
<tr>
<td>Always ensure that the seat cushion is used to protect the resident from pinching.</td>
</tr>
</tbody>
</table>

From a standing position or using a walking frame:

1. Place the Carendo and adjust the height so that the edge of the seat touches the back of the resident's knees.
2. Activate the brake.
3. Let the resident hold on the armrest so that he/she can lean on it.
4. Help the resident to sit down.
5. Raise the Carendo to a height which is convenient for moving the resident

From a wheelchair:

For the resident to be able to move from a wheelchair without lifting aids, the individual must be strong enough to move himself/herself sideways and/or be able to stand up.

1. Apply the castor brakes on the wheelchair.
2. Lower the Carendo so that its seat is at the same level as the wheelchair seat, or as close as possible.
3. Apply the brakes on the Carendo.

The resident can now move himself/herself from the wheelchair to the Carendo by placing his/her hands on the handrest of the Carendo.

From a sitting to a standing position

1. Lower the Carendo until the resident's feet are in contact with the floor.
2. Activate the brake.
3. Help the resident to stand up.
Dependent residents

WARNING
Always ensure that the seat cushion is used to protect the resident from pinching.

From the wheelchair/chair to Carendo with a passive lift:
Follow the separate operating instructions regarding the passive lift.

1. Apply the brakes on the Carendo.
2. Place the passive lift with the resident as close as possible to the Carendo. Position the resident in the sling directly over the seat of Carendo.
3. Raise the Carendo until the seat reaches the resident and there is slack in the sling straps. Unhook and remove the sling.
4. Secure the resident with the strap if needed.
5. Transfer the resident to shower or toilet.

From the bed to Carendo with a ceiling lift:
Follow the separate operating instructions regarding the ceiling lift.

1. Place the Carendo under the ceiling lift with the resident in the sling.
2. Apply the brakes on the Carendo.
3. Lower the sling with the resident until he/she reaches the seat of Carendo. Unhook and remove the sling.
4. Secure the resident with the strap if needed.
5. Transfer the resident to shower or toilet.

From the wheelchair/chair to Carendo with an active lift:
Follow the separate operating instructions regarding the active lift.

1. Apply the brakes on the Carendo.
2. Place the active lift with the resident as close as possible to the Carendo. Position the resident directly over the seat of the Carendo.
3. Apply the brakes on the active lift.
4. Lower the resident till he/she reaches the seat of Carendo. Unhook sling and remove, if present.
5. Secure the resident with the strap if needed.
6. Transfer the resident to shower or toilet.
To the shower

1. Place the Carendo with the resident in the shower room.
2. Apply the castor brakes.
3. Raise the chair in a sitting position to a comfortable height for the caregiver.
4. Activate the Care Raiser on the handset.
5. Pull down the trousers to the knees (5a) and if the resident uses incontinence pads, remove them by pulling from behind (5b).
6. Raise the Carendo to a sitting position with the handset.

**WARNING**
Make sure that no hands or other body parts get jammed between moving parts of the lift.

7. Undress the resident.
8. Activate the reclined position on the handset.

**WARNING**
ALWAYS visually ensure that male genitals do not slide under the Care Raiser seat during lowering movement of the seat.

9. Wash and shower the resident in this position (9a). Adjust the height of the chair for a correct working posture during hairwash and pedicure (9b and 9c).
10. Dry the resident with a towel.
11. Adjust the Carendo to a sitting position.
12. Dry the back of the resident.
13. Dress the upper part of the body and pull up the trousers to the knees (13).
14. Activate the Care Raiser on the handset.
15. Put on the incontinence pads, if used, and pull up the trousers completely (15).
16. Adjust the Carendo back to a sitting position and lower the chair. Secure the resident with the strap, if needed.

**WARNING**
Make sure that no hands or other body parts get jammed between moving parts of the lift.

17. Release the brakes.
18. Ready for transportation (18).
To the toilet

Carendo can be used regardless of whether the toilet is attached to the wall or to the floor.
See the measurements below on matching toilet chairs:

1. Place the Carendo with the resident close to the toilet.
2. Raise the chair in a sitting position to a comfortable height for the caregiver.
3. Activate the Care Raiser on the handset.
4. Pull down the trousers to the knees (4a) and if the resident uses incontinence pads, remove them by pulling from behind (4b).
5. Raise to a sitting position on the handset.

**WARNING**
ALWAYS visually ensure that male genitals do not slide under the Care Raiser seat during lowering movement of the seat.
Make sure that no hands or other body parts get jammed between moving parts of the lift.

6. Position the Carendo directly over the toilet bowl (6).
   Lower the chair and apply the castor brakes.
7. When the resident is ready, release the brakes and remove the chair from the toilet.
8. Raise the Carendo and clean the resident.
9. Apply the castor brakes again.
10. Activate the Care Raiser on the handset (10).
11. Put on the incontinence pads, if used, and pull up the trousers completely (11).
12. Adjust the Carendo back to a sitting position and lower the chair.

**WARNING**
Make sure that no hands or other body parts get jammed between moving parts of the lift.

13. Release the brakes.
Cleaning

For the best results, only use ARJO branded disinfectant cleansers. If you have any questions regarding disinfecting the equipment, or wish to order cleaning fluid, contact ARJO Customer Service. The following procedure should be carried out after every resident and at the end of the day.

WARNING
Always use protective gloves and protective glasses when handling concentrated cleaning agents. Avoid getting the cleaning agent on your skin or in your eyes. If this does occur, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

WARNING
Do not use phenol, citric acid or petroleum-based solvents, trichloroethylene, chlorine and hydrogen peroxide or similar cleaning agents as these may damage the plastic material. Steam, ethylene oxide sterilization or high pressure wash can not be used.

1. Detach pillow, cushions and security strap.
2. Most Arjo baths and shower panels are equipped with a spray handle for cleaning purposes. Read the equipment instructions on how to use the cleaning equipment. If ARJO cleaning equipment is not available, use an ordinary spray bottle containing cleaning fluid mixed according to instructions on the container instead. Spray cleaning fluid over the Carendo.
3. Use a rag or disposable cloth and wash all parts of the chair separately, including pillow, cushions and security strap. Do not forget to clean the under side of the chair and cushion as well.
4. Allow an appropriate contact time for sanitation or disinfection according to the instructions for the disinfectant cleaner or your local regulations.
5. Rinse thoroughly with water. The temperature of the water should not be higher than 45 °C (140 °F).
6. Dry each part of the Carendo with a clean cloth.
7. Once everything is completely dry, attach all parts to the chair.

NOTE
The cushion and the foam inside of it is water repellent.
Battery and battery charger

Installation

- The battery charger is designed for dry surroundings and may not be installed in bathrooms or any other wet areas.
- Fix the battery holder to a suitable wall in right distance from a standard power outlet where the charger is to be plugged in.
- The battery charger is not allowed to be used in living area of the residents.

Recommended place to charge batteries is storage areas for lifters corresponding to the requirement above.

Charging batteries

General

- The charger converts mains voltage to low DC voltage.
- The charger must only be used for the ARJO battery type NEA 0100.
- The charger is ready for use as soon as it is plugged in.
- A green indicator indicates that the charger is ready for charging, there is no On/Off button on the charger.

Charging intervals

- To prolong life of batteries, charge at regular intervals.
- If the lift is used frequently, it's recommended to use two batteries, one in operation and one being charged.
- It is recommended that batteries not in use are left in the charger, there is no risk of overcharging the batteries.

NOTE
A buzzing tone will be heard when the battery needs charging. The function in progress will be able to be finished.

Charging procedure

1. Plug in the charger in a power outlet.
2. The LED will show green light.
3. Connect the appliance-cable to the battery connector.
4. The LED will show yellow light.
5. The charger will charge the battery for 14 hours and the LED will switch from yellow to green to indicates that the battery is fully charged.

WARNING
When unplugging the battery connector: Grip the plug and do not pull the cord.

- The charger does not require any maintenance.
- In case of a malfunction, do not attempt to open the charger-cover.
- All repairs must be carried out by ARJO authorised personnel.

Storage of batteries

- Batteries are charged when delivered but we recommended to charge the batteries when received due to a low self-discharge.
- The batteries will slowly discharge when not used
- Batteries that will not be used for a longer period should be kept in a cool place, not under 0 °C (32 °F) and not over room temperature + 25 °C (77 °F).
- Batteries that are charged for the first time or after a longer storage period must be charged for 14 hours or until the LED turns green.
Care and Preventive Maintenance

Carendo is subject to wear and tear, and the following actions must be performed when specified to ensure that the product remains within its original manufacturing specification.

**WARNING**
The points on this checklist are the minimum the manufacturer recommends. In some cases due to heavy use of the product and exposure to aggressive environment, more frequent inspections should be carried out. Continuing to use this product without conducting regular inspections or continuing to use this product when a fault is found will seriously compromise the user and residents safety. Local regulations and standards may be higher than the manufacturers. Preventive maintenance specified in this manual can prevent accidents.

**PREVENTIVE MAINTENANCE SCHEDULE CARENDO**

<table>
<thead>
<tr>
<th>CARE GIVER OBLIGATIONS Action/Check</th>
<th>Every DAY</th>
<th>Every WEEK</th>
<th>Every 6 MONTHS</th>
<th>Every YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning/Disinfection</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Visually check safety strap</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Visually check all exposed parts</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Visually check mechanical attachments</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check handset and cable</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check/clean castors</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check cushions/pillows</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Visually check battery charger and battery</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lubricate locking pins</td>
<td>X</td>
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</tbody>
</table>

**WARNING**
The following actions must be carried out by qualified personnel, using correct tools and knowledge of procedures. Failure to meet these requirements could result in personal injuries and/or unsafe product.

<table>
<thead>
<tr>
<th>QUALIFIED PERSONNEL Action/Check</th>
<th>Every DAY</th>
<th>Every WEEK</th>
<th>Every 6 MONTHS</th>
<th>Every YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricate bearings</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check function of emergency lowering</td>
<td>X</td>
<td></td>
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<tr>
<td>Check the safety stop function</td>
<td>X</td>
<td></td>
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<tr>
<td>Perform a safe working load test, (local requirements)</td>
<td>X</td>
<td></td>
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<tr>
<td>Check all vital parts for corrosion/damage</td>
<td>X</td>
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<tr>
<td>Perform full feature functionality test</td>
<td>X</td>
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<tr>
<td>Check mechanical attachments</td>
<td>X</td>
<td></td>
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<tr>
<td>Check that the latest updates have been implemented</td>
<td>X</td>
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<tr>
<td>Inspect castors</td>
<td>X</td>
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</table>
Caregiver obligations shall be carried out by qualified personnel following the instructions in this manual.

Trouble shooting
If the product does not work as intended, immediately contact your local ARJO representative for support.

Every day
Carendo has to be cleaned immediately after every use. ARJO cleaning agents and shampoos should be used in recommended concentrations. See further disinfecting/cleaning instructions on page 22.

Every week
- **Visually check the Security strap**: Check the complete length of the strap for fraying, cuts, loose stitching. If the strap is found damaged in any way, replace it. (1).
- **Visually check all exposed parts**, especially where personal contact is made by either the resident or caregiver. Make sure no cracks or sharp edges have developed that could cause the patient or user injury or that has become unhygienic. Replace damaged parts.
- **Visually check mechanical attachments**: Visually check that all screws and nuts are tightened and that there are no gaps - contact your local ARJO representative if defects are found (2).
- **Check handset and cable**: Visually check the condition of the handset and its cable if it is cut or damaged. Also check the emergency stop, see page 16. Contact your local ARJO representative if defects are found (3).
- **Check that the castors are properly fixed and are rolling and swiveling freely**, (the function can be affected by soap, hair, dust and chemicals from floor cleaning). If not, contact your local ARJO representative (4).
- **Check the cushions/pillows** to make sure there are no cracks or tears that would allow water to get into the filling. If there is such damage, replace the cushions/pillows (5).
- **Visually check the condition of the battery charger, its cable and the battery**. Withdraw immediately and replace if damaged (6).

Every sixth months:
Lubricate the locking pins. Use Cassida grease RLS2 (can be purchased from ARJO) (7).

Every year:
Carendo must be serviced according to the Preventive Maintenance Schedule (ARJO Authorized Service).
# Technical specifications

**Carendo, lift and shower chair  Model BIB2000-01**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting capacity</td>
<td>136 kg (300 lb.)</td>
</tr>
<tr>
<td>Weight</td>
<td>64 kg (141 lb.)</td>
</tr>
<tr>
<td>Max total weight (lift + resident)</td>
<td>200 kg (441 lb.)</td>
</tr>
<tr>
<td>Chassis, max width</td>
<td>620 mm (24 3/8”)</td>
</tr>
<tr>
<td>Width between legs</td>
<td>520 mm (20 1/2”)</td>
</tr>
<tr>
<td>Clearance under chassis</td>
<td>42 mm (1 5/8”)</td>
</tr>
<tr>
<td>Chassis, max length</td>
<td>810 mm (31 7/8”)</td>
</tr>
<tr>
<td>Chassis, sticking out in the front</td>
<td>160 mm (6 1/4”)</td>
</tr>
<tr>
<td>Turning area</td>
<td>Ø1150 mm (45 1/4”)</td>
</tr>
<tr>
<td>Lifting stroke range (seat)</td>
<td>550 mm (21 5/8”)</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Max power</td>
<td>150 VA</td>
</tr>
<tr>
<td>Battery</td>
<td>NiMH; Arjo NEA 0100</td>
</tr>
<tr>
<td>Colour</td>
<td>blue/grey</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position</th>
<th>Max length, mm (inches)</th>
<th>Width, mm (inches)</th>
<th>Max height, mm (inches)</th>
<th>Seat height, mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitting, lowest position</td>
<td>890 (35”)</td>
<td>650 (25 5/8”)</td>
<td>1230 (48 3/8”)</td>
<td>510 (20 1/8”)</td>
</tr>
<tr>
<td>Sitting, highest position</td>
<td>940 (37”)</td>
<td>650 (25 5/8”)</td>
<td>1560 (61 3/8”)</td>
<td>950 (37 3/8”)</td>
</tr>
<tr>
<td>Reclined, lowest position</td>
<td>1390 (54 3/4”)</td>
<td>650 (25 5/8”)</td>
<td>1050 (41 3/8”)</td>
<td>470 (18 1/2”)</td>
</tr>
<tr>
<td>Reclined, highest position</td>
<td>1520 (59 7/8”)</td>
<td>650 (25 5/8”)</td>
<td>1290 (50 3/4”)</td>
<td>950 (37 3/8”)</td>
</tr>
<tr>
<td>Care Raise, lowest position</td>
<td>1390 (54 3/4”)</td>
<td>650 (25 5/8”)</td>
<td>1050 (41 3/8”)</td>
<td>780 (30 3/4”)</td>
</tr>
<tr>
<td>Care Raise, highest position</td>
<td>1520 (59 7/8”)</td>
<td>650 (25 5/8”)</td>
<td>1490 (58 5/8”)</td>
<td>1270 (50”)</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP X4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical equipment</td>
<td>type B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>+10 °C - +45 °C (+50 °F - +113 °F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water temperature range</td>
<td>+10 °C - +45 °C (+50 °F - +113 °F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative humidity range</td>
<td>20 % - 100 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atmospheric pressure</td>
<td>unessential</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound level</td>
<td>&lt;58 dBA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode of operation</td>
<td>ED max 10%; Max 2 min ON, Min 18 min OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Transport and storage

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature range</td>
<td>–10 °C to +60 °C (+14 °F to +140 °F)</td>
</tr>
<tr>
<td>Relative humidity range</td>
<td>10 % to 80 % including condensation</td>
</tr>
<tr>
<td>Atmospheric pressure range</td>
<td>500 hPa to 1060 hPa</td>
</tr>
</tbody>
</table>

### Recycling

The device should be recycled according to national regulations.

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>NiMH. Recyclable. Not for disposal. Environment danger</td>
</tr>
<tr>
<td>Package</td>
<td>Wood and corrugated cardboard, recyclable</td>
</tr>
<tr>
<td>The Lift</td>
<td>Electric, steel and plastic parts shall be separated and recycled according to marking on the unit</td>
</tr>
</tbody>
</table>

### Charger model

**NEA 1000-EU, NEA 2000-UK, NEA 4000-US, NEA 6000-AUS, NEA 7000-JP**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100 – 240 V ~ ±10 %</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 – 60 Hz</td>
</tr>
<tr>
<td>Normal charge current</td>
<td>250 mA for 14 hours</td>
</tr>
<tr>
<td>Standby charge current</td>
<td>60 mA, standby charge starts after normal charge (14 hours)</td>
</tr>
<tr>
<td>Max charge voltage</td>
<td>33 Vdc</td>
</tr>
<tr>
<td>Max power</td>
<td>10 VA</td>
</tr>
<tr>
<td>Weight</td>
<td>210 g (0.46 lb.)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>60 x 70 x 100 mm (2 3/8” x 2 3/4” x 4”)</td>
</tr>
<tr>
<td>Max ambient temperature</td>
<td>+ 40 °C (+ 104 °F)</td>
</tr>
<tr>
<td>Max relative humidity</td>
<td>75 %</td>
</tr>
<tr>
<td>Max atmospheric pressure</td>
<td>1060 hPa</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IPX0</td>
</tr>
<tr>
<td>Battery to this charger</td>
<td>Arjo NEA 0100</td>
</tr>
</tbody>
</table>
Labels on battery and battery charger

On the charger you will find the following information:

**Charger model**
- NEA 1000-EU (Europe except for Great Britain)
- NEA 2000-UK (Great Britain)
- NEA 4000-US (USA and Canada and Japan)
- NEA 6000-AU (Australia)
- NEA 7000-JP (Japan)

**100-240V 50-60Hz**
- Mains supply

**25VA**
- Maximum rated power
- Output voltage and charge current
  - 33 V 250 mA for 14 hours and 60 mA thereafter

**NEA0100**
- ARJO battery intended for this charger

**Class II**
- Insulation class

⚠️ Read the operation manual before use

**Approval label**

The equipment has been EMC-tested and fulfils all requirements according to IEC 60601-1-2
ARJO is not aware of any reciprocal electromagnetic interference between Carendo and other electrical products.

 Classified by Underwriters Laboratories Inc. with respect to electric shock, fire, mechanical hazards and other specified hazards only in accordance with UL 2601-1 and CAN/CSA - C 22.2 No 601.1-M90.

**Identification label**
The identification label states the product number and the batch number.

**Battery label**

⚠️ Environmental danger.
Not for disposal

Recyclable
Labels on the lift

The data label is located on the inside of the left lifting frame.

Data label
On the data label you will find the following information:

- Maximum lifting capacity, 136 kg (300 lb).
- Stroke 550 mm (21 5/8")
- Supply voltage 24V DC
- Max power, high-low 150VA
- Max power, reclining 150VA
- Fuse F1 - T8AL 250V
  Fuse F2 - T6.3AL 250V
  Fuse F3 - T8AL 250V
- Protection class IP X4
- Type B.
  Applied part: protection against electric shock in accordance with IEC 60601-1.
- ED max 10%
  Mode of operation for Hi/Lo function:
  Max 2min ON and 18 min OFF
- Max total weight: 200 kg (441 lb)
- NEA0100- Product no. of the battery

- Read the operation manual before use.
- Contact your local ARJO Sales representative how to recycle the device according to European Directive 2002/96/EG (WEEE)

Attention label
Attention label are located on the cover on the backside and means:
See the accompanying documents.

The identification labels and the approval label are located on the inside of the right lifting frame.

Identification label
The identification label states the product number and the serial number. (see example).

Approval label
- TÜV marking. The lift has been safety tested according to:
  EN 10535
  EN 12182
  IEC 60601-1
  Biocompatibility ISO 10993
  IEC 60601 Mechanical for CB
  CSA Z 323.5 Threshold test.
- The lift has been EMC-tested and fulfills all requirements according to IEC 60601-1-2. ARJO is not aware of any reciprocal electromagnetic interference between Carendo and other electrical products.
- The battery has been tested according to:
  EN 60601-1
  UL 2054
Attention label

Example of identification label

Manufacturing country
SE = Sweden

Manufacturing Year
Week

Serial number

Approval label

Data label

MODEL: BIB20XX-01

Max total weight: 200 KG (441 lb)

550 mm
21 5/8" (561 mm)

24V

cable 150 VA
Fuse F1 T8AL 250V
Fuse F2 T6.3AL 250V
Fuse F3 T8AL 250V

IP X4

TYPE
ED max 10%

Max total weight: 200 KG (441 lb)

ACCESSORY:
NiMH BATTERY
No NEA0100