

# Instructions for use

## SALSA® A1 | A2 | A3 | A4



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# 1 Product description



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These instructions for use are an integral component of the SALSA therapy chair. They describe the set-up, operation, intended use and functions.

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## A1

The SALSA A1 is equipped with 1 x 24 volt actuator. The therapy chair can be infinitely adjusted from a seated position to a lying position. The arms swivel out and can be folded up.

## A2

The SALSA A2 is equipped with 2 x 24 volt actuators. All of the actuators can be moved independently. 1 actuator is for adjustment of the back part, 1 actuator is for adjustment of the foot part. All actuators can be adjusted independently of the others. The arms swivel out and can be folded up. It can be adjusted to the shock position and also the lying position.

## A3

The SALSA A3 is equipped with 3 x 24 volt actuators. All of the actuators can be moved independently. 1 actuator is for adjustment of the back part, 1 actuator is for adjustment of the foot part and 1 actuator is for adjustment of the seat part. All actuators can be adjusted independently of the others. The arms swivel out, fold up and the tilt angle is also adjustable. The bed chair can be adjusted to the shock or Trendelenburg position and also the lying position.

## A4

The SALSA A4 is equipped with 4 x 24 volt actuators. All of the actuators can be moved independently. 1 actuator is for adjustment of the back part, 1 actuator is for adjustment of the foot part, 1 actuator is for adjustment of the seat part and 1 actuator for adjustment of the height. All actuators can be adjusted independently of the others. The arms swivel out, fold up and the tilt angle is also adjustable. The bed chair can be adjusted to the shock or Trendelenburg position and also the lying position.

## 2 Safety



### 2.1 Safety instructions, symbols and tips

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"I" as in info

This item contains important information and assistance.

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#### **NOTICE!**

"Attention" indicates operating recommendations, which, if ignored, do not result in injury to persons. Follow the operating instructions to avoid material damage and problems!

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#### **CAUTION!**

"CAUTION" indicates dangerous situations that could cause injury and/or property damage.

For example: Trip hazard due to power cables

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#### **WARNING!**

"WARNING" indicates dangerous situations that could cause serious injury.

For example: Danger due to high voltage!

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#### **DANGER!**

"DANGER" indicates dangerous situations that could cause serious injury or death.

For example: Risk of crushing by moving parts!

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### 2.2 Hazards

#### 2.2.1 Hazards

The therapy chair/bed chair has a state-of-the-art design and is constructed in accordance with recognised regulations and standards. The function and safety of each product are checked before delivery; the respective inspection certificate is affixed to the therapy chair/bed chair. However, incorrect operation or misuse will result in potential hazards for

- the health of the user and/or the patient
- the chair and possibly other property of the operator
- the efficient function of the therapy chair/bed chair

All persons involved in set-up, initial operation, use, servicing and maintenance must:

- be suitably qualified,
- have read and understood these instructions for use.



**⚠ DANGER!**

**Under no circumstances must the therapy chair/bed chair be used outdoors!**

### 2.2.2 Intended use

The therapy chair has been designed to comply with the latest standards for medical chairs. It is intended for the seated or supine positioning of patients for the period of treatment under the supervision of medically qualified personnel (maximum 6-7 hours) and can be continuously adjusted from the seated position to the shock or Trendelenburg position using the motors.

**⚠ DANGER!**

**It is intended for use in rooms designated for medical use (groups 0 and 1 and, if an additional potential equalisation is connected, group 2 in accordance with VDE 100-710) and is used exclusively for positioning patients for dialysis, blood donation, pain treatment, oncology treatment and similar forms of treatment. The chair is not approved for radiation therapy in oncology departments. It is intended exclusively for pharmaceutical applications.**

The therapy chair is intended for the treatment of a patient. Under no circumstances may the chair be occupied simultaneously by 2 or more people. It can be operated up to an elevation of 2000 m. Our products are intended for the European market and comply with the laws applicable in Europe as implemented in the pertinent EU Directives.

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**ANY OTHER USAGE IS NOT USE AS INTENDED!**

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**⚠ CAUTION!**

**The therapy chair is not intended for use in intensive care or surgical procedures (group 2 medical zones). However, the chairs are approved for use with intracardiac procedures with connected equipotential bonding. It must not be used for long-term patient care (see hospital beds). The cushion is an integral component of the chair.**

Conversions, modifications and the attachment of additional equipment not supplied by the manufacturer are not permitted. Exceptions can only be made with written permission from the manufacturer. Use only genuine replacement parts for repairs.

- ▶ The required servicing and regular checks must be performed without fail.

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**FAILURE TO USE AS INTENDED VOIDS ANY LIABILITY AND GUARANTEE.**

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Use as intended also includes following all instructions, safety instructions and rules in these instructions for use. Please also refer to the German Medical Devices Operator Ordinance (MPBetreibV), chapter 2, section 5 and standard IEC 60601-1 (7.9, daily functional checks (2.8 of these Instructions for Use).

**⚠ CAUTION!**

**Authorised users: only persons authorised and instructed by the operator.**

The operator must train users, make the instructions for use available to them, and ensure that users have read and understood them. Patients are permitted to operate the bed chair only after instruction and under supervision. The operator must take precautions to ensure that unauthorised users do not move the therapy chair/bed chair.

Training: this notifies you that we authorise the person appointed by the operator to manage medical devices to train users to operate the therapy chair/bed chair within the context of intended use based on education, experience and knowledge.

### 2.2.3 Hazards due to electrical & mechanical energy

#### Electrical energy:

**⚠ DANGER!**

- incorrectly performed service work on the controls (the controls can only be guaranteed to be leak-tight if the plugs are correctly inserted)
- the use of non-original parts in the area of the controls
- mains plug not removed during servicing
- running over and damaging the power cable

Interference with other electrical equipment may occur in some circumstances.

#### Mechanical energy:

**⚠ DANGER!**

- incorrectly or inappropriately performed service work (missing locks on actuators, bolts, levers!)
- the use of non-original parts
- mains plug not removed during servicing (unwanted movement of the product)

Servicing and safety checks must only be performed by specialists authorised by Likamed. When the therapy chair/bed chair is not in use, the hand switch must always be locked. The drives/motors/actuators must not be adjusted while persons are located within the range of movement of the therapy chair/bed chair.

### 2.2.4 Safety equipment

**⚠ DANGER!**

Fuses, earth wires and sheathing have been installed to protect patients and users. They must not be removed, modified or bypassed.

- ▶ **HAVE ANY DEFECTS IDENTIFIED REPAIRED IMMEDIATELY.**

### 2.2.5 Service and safety inspection

**⚠ DANGER!**

The required servicing and safety checks must be performed without fail.

- ▶ **FAILURE TO DO SO WILL POTENTIALLY VOID THE GUARANTEE AND LIABILITY EXCLUSION.**

## 2.2.6 Daily functional checks

### DANGER!

► The following checks must be performed before every use:

- Check whether the brakes on the casters (or the central locking) are still firmly locked; if necessary, have them changed by an authorised technician.
- Check all electrically adjustable parts by manual operation to verify that they are functional.
- General visual inspection.

**FAILURE TO FOLLOW THESE INSTRUCTIONS WILL POTENTIALLY VOID THE GUARANTEE AND LIABILITY EXCLUSION.**



## 2.2.7 Disposal

There are no risks associated with disposal. Separate materials. Scrap the steel. Dispose of all other parts separately via public recycling facilities.



The therapy chair must be taken to the available return and collection systems at the end of its service life, depending on the local regulations.

## 2.2.8 Replacement parts lists and service documentation

Replacement parts lists and service documentation can be requested from your retailer.



## 2.2.9 First failure safety

### CAUTION!

If an actuator does not stop despite releasing the function button on the hand switch, or if the functions of the hand switch need to be shut off in other emergencies, a third party (personnel) must shut off the entire power supply by pulling out the mains plug.

## 2.2.10 Options

### DANGER!

► Only options/accessories which are genuine Likamed or approved in writing by Likamed can be attached to the therapy chair/chair bed/porter/side table.

## 2.2.11 Service life



With compliance to the risk management measures, we specify a service life of 8 years or 12.000 hours of operation. Parts of that are the required daily functions checks and servicing and safety checks on the basis of the manufacturer documentation every 2 years. Requirement is the intended use.

### 2.2.12 Load on the back and foot parts

 **DANGER!**

- ▶ Under no circumstances should one sit on the upper part (head part) of the back part. The foot part must only be loaded (half of the nominal load capacity) when the therapy chair/bed chair is in the lowest position; i.e. the therapy chair/bed chair must be adjusted to the lowest position before any load is placed on the foot part.

### 2.2.13 Important safety instruction

 **DANGER!**

- ▶ For safety reasons, the functions of the therapy chair/bed chair must be locked using the locking device on the hand switch (magnet or key) when not in use.



Under no circumstances may anyone be located in areas around the therapy chair/bed chair in which hazards/injuries of any kind may occur (e.g. under the therapy chair/bed chair and in the range of motion of the back or foot part etc.).

### 3 Fault diagnosis

#### 3.1 Malfunctions

##### Electrical components

	Possible faults	Remedies
<b>All electrical components non-functional</b>	No mains plug	Check mains plug
	Mains cable defective	Replace mains cable
	Remote control or actuator plug not correctly plugged in and/or locked	<ul style="list-style-type: none"> <li>– Check that plug is correctly plugged in</li> <li>– Locking bar present?</li> </ul>
	Remote control not unlocked	Unlock with key or magnet
	Remote control defective	Replace remote control
	remote control defective	Replace remote control
<b>Failure of individual electrical components</b>	The connecting plug of the electrical component is not correctly connected or locked	Check that plug is correctly/securely plugged in at the control
	Remote control defective	Replace remote control
	Remote control defective	Replace remote control
	Cable or plug of electrical component defective	Replace component
	Actuator defective	Replace actuator
<b>Foot control (optional) does not function</b>	Incorrect operation	Double-click
	Control defective	Replace control
	The control plug is not correctly connected and locked	Check that plug is correctly plugged in at the CU box
<b>Reading lamp (optional) does not light</b>	Remote control was disconnected from the mains power supply (protective function of battery includes switching off the reading lamp under battery power)	Connect remote control to mains power supply, press any key on the remote control briefly
	ON/OFF switch on reading lamp head set to OFF	Set switch on reading lamp head to ON

**Other faults**

	<b>Possible faults</b>	<b>Remedies</b>
<b>Footrest difficult to adjust</b>	Locking screw defective	Replace locking screw
	Guide tube deformed	Replace footrest
	Missing lubrication	Spray guide tube with service spray.
Noise emission	Insufficient lubrication on lift pipes, lever mechanisms or joints	Spray components with service spray



CE mark in accordance with Directive 93/42 EEC (MDD)

ANSI/AAMI ES60601-1:2005/(R)2012 (3.1)= IEC 60601-1(ed.3);am1 – for USA

CAN/CSA C22.2 No.60601-1:14 = IEC 60601-1(ed.3);am1 – for Canada MDD1

The 3-pin England mains plug with a 2-wire lead is approved in accordance with BS 1363-6.

## 4.2 Technical changes and upgrades

Subject to technical changes and upgrades.

Authorised persons may request servicing instructions, set-up instructions and replacement parts lists from the retailer/manufacturer if desired.

You can find detailed information regarding safety checks on the components in our service instructions.

This technical servicing must only be performed by authorised personnel!

## 4.3 Electromagnetic interference

**It cannot be ruled out that the use of additional electrical equipment may result in electromagnetic interference/influences.**

## 4.4 Transportation, unpacking and (interim) storage

The therapy chair/bed chair is delivered in a shipping carton. There are no special requirements for unpacking, nor are there any for (interim) storage in the shipping carton. Ambient temperature -10°C to +40°C. Humidity 30-75%. Permissible air pressure 800-1,060 hPa.

## 4.5 Set-up & connection

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A socket must be located nearby.

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**⚠ DANGER!**  
 ► Tripping hazard: position the mains cable in such a way that tripping is avoided.

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**⚠ DANGER!**  
 ► Electrical hazard! The mains and hand switch cables must not be trapped in moving parts where they may be crushed and/or cause electric shock.

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See also positioning the therapy chair/bed chair.

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A cable attachment (hook/clip) is on the back of the back part to secure the hand switch cable out of the way. The unplugged spiral mains cable can also be attached to the back part to keep it out of the way when moving the chair.

### 4.6 Connecting the potential equalisation cable



Place the potential equalisation cable (if included) on the connector bolt (see figure) and connect to the wall bar using the connector. DIN VDE 0100-710 specifies that connection of the potential equalisation cable is absolutely essential for group 2 use (intracardiac procedures).



#### SENSA Flex

Potential equalisation bolt for connection to the wall bar



### 4.7 Type plate (example)



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 Raußmühlstraße 7  
 75031 Eppingen  
 Germany  
 www.likamed.de

SALSA® A4

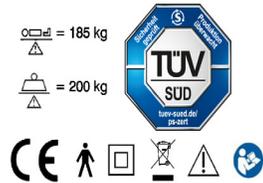
REF 57-XX-XX

49/2017

SN 18BLS0000



Versorgungsnetz:	100 - 240 V AC, 50/ 60 Hz, max. 3,15 A
Schutzart:	IPX4
Einschaltdauer:	10% (2min an / 18min aus)
Gewicht:	SALSA A4: 62 kg
	max. Patientengewicht: 185 kg
	sichere Arbeitslast: 200 kg
Gesamtgewicht:	inkl. sichere Arbeitslast: 262 kg



**SALSA**  
**A4**

Model name  
 Number of actuators



Article number



Date of manufacture



Manufacturer



Serial number



TÜV verified quality



max. patient weight



Safe operating load capacity



By affixing the CE label, the manufacturer confirms that the product is compliant with the current product-specific European Directives.



Type B usage part



Protection class II equipment (with protective insulation)



Incorrect disposal endangers our environment! The therapy chair must be taken to the available return and collection systems at the end of its service life!



Safety instruction



Follow the instructions for use

## 5 Important rules for use

### 5.1 Getting on and off the therapy chair/bed chair

 **DANGER!**

- ▶ Always get on and off the therapy chair/bed chair from the side with the casters and/or central locking locked. Raise the armrests. Under no circumstances should anyone get on or off the chair via the footrest or foot part (falling and injury hazard).

### 5.2 Armrests, back part

 **DANGER!**

Do not sit on the armrests or on the head end of the back part. The armrests must only be used to support the arms. Any other type of use is not permitted. (Falling and injury hazard). When folding up the armrests, fold them into the end position; make sure that they cannot fall back down on their own! When returning the armrests to their initial position, hold them as you fold them back to their starting position - **under no circumstances should you release them and let them fold down (fall) on their own!**

### 5.3 Using a side table

 **DANGER!**

Do not adjust the therapy chair/bed chair (using the motors) when a side table is being used.

- 1) Remove the table from the therapy chair/bed chair first!
- 2) Then adjust the position of the therapy chair/bed chair.

If this procedure is not followed, the side table can tip over. Hot food and/or drinks could be spilled on the patient. There is a risk that the patient could be trapped or could suffer other harm.

### 5.4 Positioning the therapy chair/bed chair

 **DANGER!**

Position the therapy chair/bed chair far enough away from surrounding objects (walls, windowsills, power strips, cupboards etc.) that the motion sequence cannot result in any damage, even if add-on parts are being used and/or the position is being changed to the shock or Trendelenburg position (see figure).

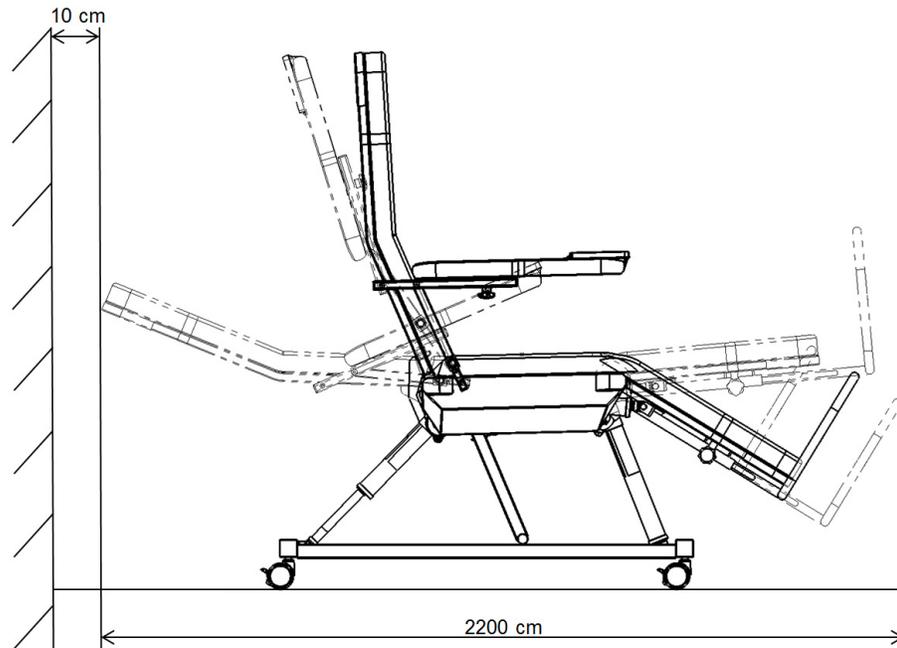
 **DANGER!**

**Serious damage could be caused to the therapy chair/bed chair, walls, cushion cover/mattress, cupboards or people!**

The therapy chair/bed chair may also be pushed forward.

**⚠ DANGER!**

Make sure that when lifting from the supine position to the seated position, the back part does not damage the power strip or other objects (windowsill, open window panes, etc.). The back part may deform, the actuator may be broken off or the part which becomes caught may be torn off! The mains socket must be kept accessible so that the plug can be pulled out in case of emergency.



### 5.5 Positioning supplementary usage of seat part function

**⚠ DANGER!**

The operation of the seat part button requires particular attention. The back and foot parts are moved automatically with the seat part when it is tilted (up or down). When the "Seat part up" button is pressed, the back part moves back and the foot part lifts up. The movement is opposite when the "Seat part down" button is pressed. The back part moves to the upright position and the foot part is lowered. If the chair is blocked at this moment (up or down), the back part drive along with the connection will be overloaded. This may cause the drive and the connection to the back part to shear, bend or break.

### 5.6 Transporting patients

**⚠ DANGER!**

The therapy chair/bed chair is suitable only to a limited extent for transporting patients; extreme care must be taken when doing this, particularly when crossing thresholds or obstructions on the floor, and only short distances may be travelled in the chair. Under no circumstances must the patient be sitting on the flat (lowered) therapy chair/bed chair, but must always be positioned on the therapy chair/bed chair in the position in which it is set. Use the bracket on the footrest (if

present) or the top part of the back part as a handle for moving the chair. Under no circumstances should the bed chair be used for transport up or down stairs, otherwise there is a serious accident hazard. Proceed no faster than walking pace; do not stop or go around corners and curves abruptly (risk of patient falling off, falling or sustaining an injury).

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**⚠ DANGER!**

When moving the therapy chair/bed chair, always fix the hand switch and the cable. Fasten the hand switch cable and the power cable so they cannot be run over (risk of crushing, electric shock).

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## 5.7 Load capacity

The safe loading capacity of the chair is 200 kg. The maximum patient weight is determined as follows:

Safe loading capacity (200kg) minus:

- Upholstery
- Options (e.g.: reading lamp)

= max. patient load

**⚠ DANGER!**

## 5.8 Moving parts

**⚠ DANGER!**

Do not touch or reach into moving parts of the mechanism. This can result in serious injuries.

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## 5.9 General notes

**⚠ CAUTION!**

The daily functional checks as defined in the German Medical Devices Operator Ordinance (MPBetreibV), section 2, chapter 5, include checking all movement operations. Never lean on the therapy chair/bed chair if the casters are not locked or if the central locking system is not locked. The cushion/mattress is an integral component of the therapy chair/bed chair.

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## 5.10 Power loss/battery operation (optional)

 **DANGER!**

**If the power fails, transfer the patient to another bed if necessary.**

With the optional battery, the therapy chair/bed chair can still be adjusted for a certain period. This ensures that the chair can be moved into the shock position and back again once.

- ▶ If the therapy chair/bed chair remains disconnected from the mains power for an extended period, it must be connected to the mains power for at least 14 hours after no more than 5 months to recharge the battery (see also "Battery and battery operation").

## 5.11 Locking device

 **DANGER!**

**If adjustment of the therapy chair/bed chair by the patient is not desirable due to the state of the patient's health, the therapy chair/bed chair can be locked using the magnetic or the mechanical locking device on the hand switch (see also "Hand switch").**

## 5.12 Using lifts

 **DANGER!**

**The use of lifts is not permitted.**

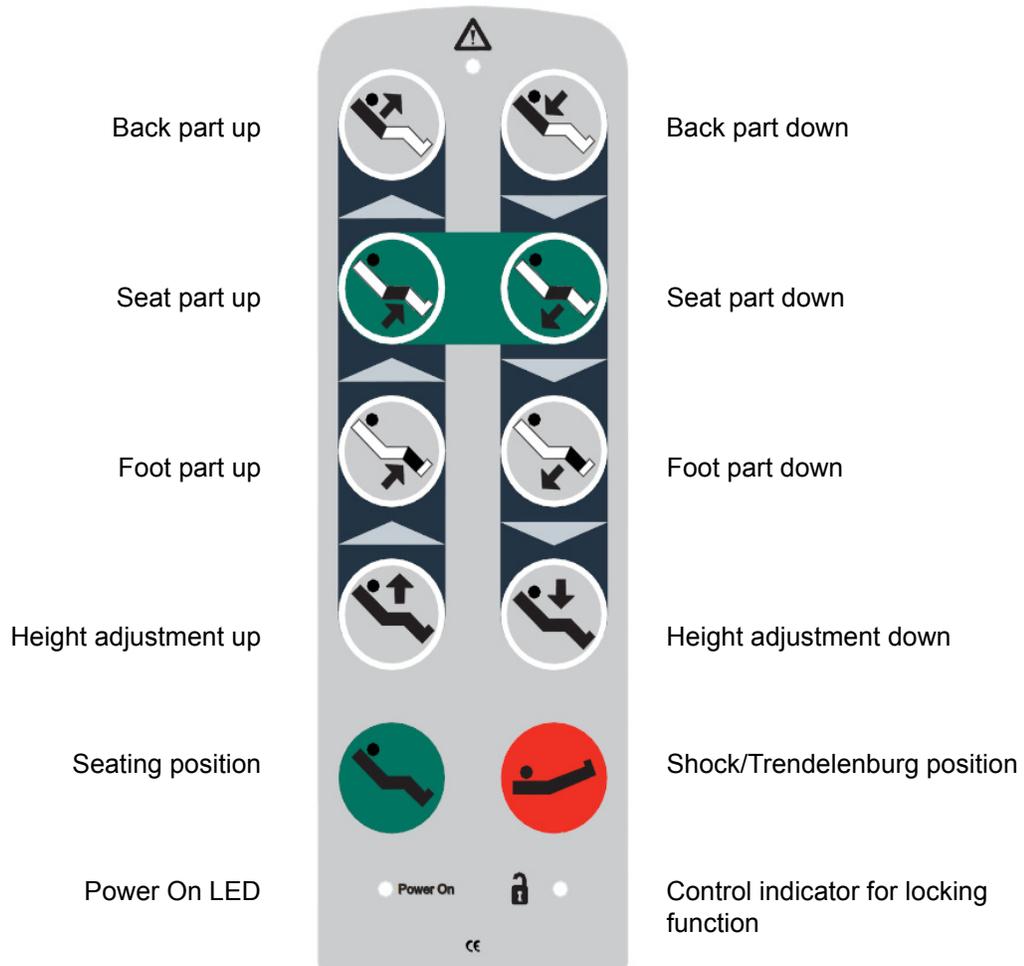
**FAILURE TO USE AS INTENDED VOIDS ANY LIABILITY AND GUARANTEE.**



## 6 Hand switch

### 6.1 Button layout

⚠ Function LED



#### ***Mechanical hand switch lock***

SALSA® A1 therapy chairs: Use the key (blue) on the back of the hand switch to mechanically lock and unlock the hand switch.



### **Magnetic key**

The magnetic key is moved over the lock icon to lock or unlock the therapy chair/bed chair.



The magnetic key is located on the hand switch.

## **6.2 Operation of the hand switch**

The layout of the hand switch (number of buttons) varies according to the number of actuators installed in the therapy chair/bed chair.



When a button is pressed, the part of the chair marked in black on the button moves until it reaches the required position and is released or until the end position of the actuator is reached.

The seat position, bed position or shock button activates all actuators that are required to move the therapy chair/bed chair to the required position.

- The function LED lights every time a button is pressed until the button is released.
- The power LED remains permanently green when the therapy chair/bed chair is connected to the mains power supply.
- The lock function control indicator is on when the hand switch is unlocked.

## 7 Accessories/modifications/options

### 7.1 Accessories/modifications/options

**⚠ DANGER!**

The attachment of any type of accessories not supplied by the manufacturer requires written approval from the manufacturer.

Modifications of this type must also only be performed upon written approval from the manufacturer.

- ▶ All options/accessories must be operated/used solely for their intended purpose.

### 7.2 Push handle (optional)

The push handle can be used for positioning or transporting the therapy chair.



### 7.3 Infusion rod holder (optional)

The infusion rod holder is designed to hold the infusion rod securely.

The infusion rod holder can be installed in two different positions and can be locked with the handwheel.



## 7.4 paper roll dispenser

The paper roll can be mounted on the rod of the paper roll dispenser and locked with the handwheel.

SENSA

SALSA / SENSA Flex



## 7.5 Other options for the SALSA therapy chair

- Wedge-shaped armrest
- Wedge-shaped armrest low
- Foam armrest
- Armrest with additional tilt adjustment
- Foot part without footrest
- Casters Ø10 cm with individual lock
- Cushion cover (2-layer foam) with particularly soft seat part
- Antibacterial surface for cushion cover
- Pillow in colour matching cushion cover
- Lordosis support
- Transparent, washable protective cover for footrest
- Transparent, washable protective cover for foot part
- Transparent, washable protective cover for foam (padded) armrests, wedge-shaped armrest and low wedge-shaped armrest
- Jersey stretch cover (washable) for cushion cover, relax cushion and pillow
- Jersey stretch cover (washable) for foam (padded) armrests, wedge-shaped armrest and low wedge-shaped armrest
- Infusion rod with bottle holder
- Grey synthetic leather hand switch holder with Velcro closure for foam (padded) armrest
- Potential equalisation cable (essential for intracardiac procedures)

## 8 Cleaning

### 8.1 Surface disinfection and cleaning

After treating each patient, clean and disinfect the entire surface of the therapy chair/bed chair. This should be done immediately after use. In case of major contamination, we also recommend cleaning during treatment.



#### **WARNING!**

**Disconnect the mains plug before cleaning!!!**

Cushions, mattress, armrests and covers are largely resistant to many disinfectants and cleaners. In case of doubt, test an area that is not visible (e.g. bottom, out of sight) to make sure that the substance does not affect the material.

#### **Cleaning**

Wipe with warm water with mild liquid detergent.

#### **Disinfection**

LIKAMED **approved** products for surface disinfection are:

<b>Manufacturer</b>	<b>Product</b>
Akzo Nobel	Sodium hypochlorite
Bode	Bacillol AF
	Cutasept
B. Braun	Meliseptol Foam Pure
	Softasept N
	Meliseptol
	Helipur
	Melsitt
	Melsept
Desomed	Desomed Rapid
Dr. Schumacher GmbH	Freka®-NOL AF
	Descosept AF
ECOLAB	Incidin® Extra N
	Incidin foam
	Incidin Plus
	Incidin perfekt
	Incidin liquid
Favodent Karl Huber	Flora quick
Fresenius Medical Care	ClearSurf®
Henkel	Incidur Spray
Lysoform	Fugaten Spray
Orochemie	B45
Peppler	Micro clanPepp clean

Ruck	Spray disinfection
Reckitt Benckiser	Sagrotan med
Schülke & Mayr	Kodan Tinktur Forte
	Esemfix
	Octenisept
	Mikrozid AF
Unident	Unisepta foam

We recommend testing a new disinfectant on an area of the cover that is not visible before using it.

**Note:**

The maximum recommended concentration was tested for 50 applications. The instructions for use for the cleaning agent must be followed in all cases. The material may be affected after long-term use. Changing disinfectants, particularly one that has been used for a long time, should be avoided, because otherwise the product may be damaged. Regular application of products that contain alcohol or solvents may have a negative effect on the painted surface and in the long term may cause the material to become brittle. Because we have no influence on the manufacture or raw materials used for disinfectants, we offer no guarantee for the resistance to disinfectant.

Strong acidic or alkaline disinfectants and disinfectants with aggressive constituents or solvents may permanently damage surfaces!

Do not cover the therapy chair/bed chair immediately after cleaning. Standing and drying time is about 15 minutes. The cleaner or disinfectant must be wiped off after the standing time!!!

 **CAUTION!**

**Do not hang the hand switch holder on the armrests while they are still wet.**

► Danger of staining

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Stubborn stains on the foam parts (armrests, footrest, headrest) can also be removed with assembly cleaner.

 **CAUTION!**

**Do not allow assembly cleaner to contact artificial leather surfaces (upholstered cushion, neck support, relax cushion etc.)!**

► Danger of staining

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**!! Mechanical cleaning or water/water jet cleaning are not permissible!!**

## 9 Publisher

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