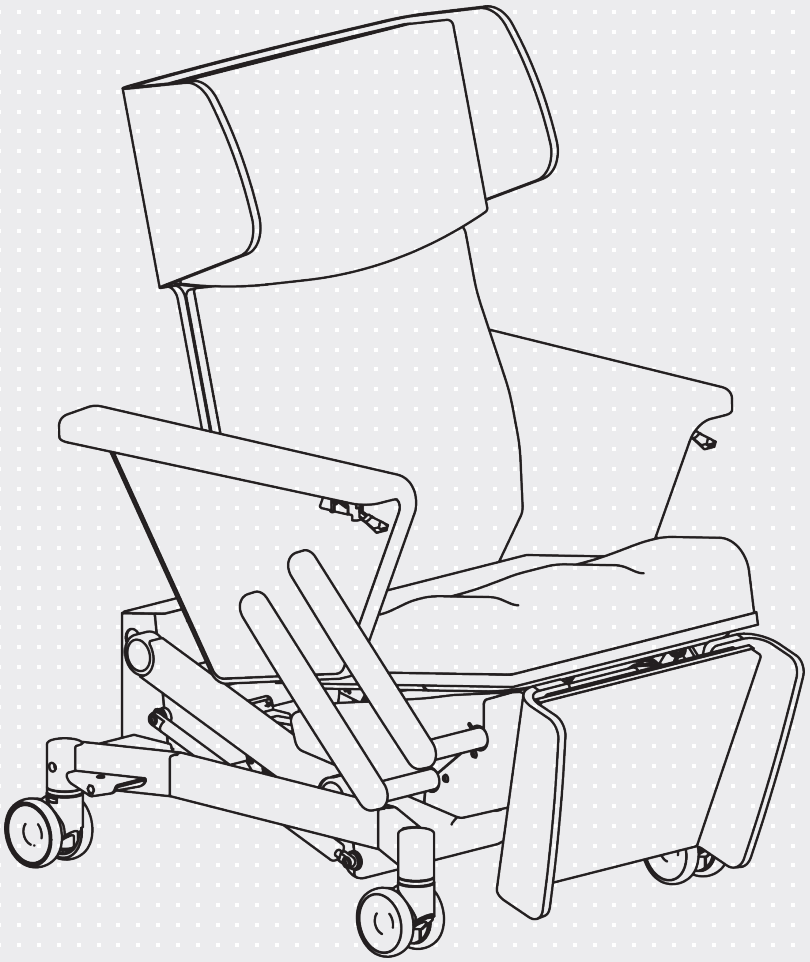
VELA Medical

Manual. nr. 105634

Item no.:	Model
87211	VELA Rumba
87212	VELA Neonatal chair
87213	VELA Treatment Chair



**The chair's design varies depending on the model*

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1.0. INTRODUCTION

DEAR CUSTOMER

Congratulations on your new VELA Medical chair. This user guide contains helpful information about adjustments, operation, and maintenance.

Important
To help you get the most benefit from your chair, please read this user guide carefully and keep it handy for future reference. You can also find this user guide on VELA Medical's website: www.vela-medical.com along with other relevant information about the chair.

If you have any questions, please contact your VELA Medical dealer.

We reserve the right to make changes.

VELA Medical
Gøteborgvej 8-12
9200 Aalborg SV
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1.1. SAFETY

This chair has CE certification and approval for the model name "VELA Rumba" and adheres to EU regulations. The chair adheres to all relevant Electromagnetic Compatibility (EMC) requirements and EU requirements for electrical safety.

The chair is manufactured by:
VELA Medical, Gøteborgvej 8-12,
9200 Aalborg SV, Denmark.

1.1.1. SAFETY NOTES

:: The chair is intended for indoor use in hospital settings.

:: The chair is not suitable for use outside hospital settings.

:: The chair does not have electrical accessories.

:: The chair must be kept at least 30 cm from other electrical equipment, including electrical wires/cables.

:: The chair must not be used for operations or in contagious wards, as the chair cannot be run through a washer.

:: We recommend annual servicing where the chair is checked for defective or worn elements.

:: Batteries must be disposed of at recycling plants in the respective containers for batteries/electrical garbage (refer to section 1.5 Recycling and Disposal).

:: The chair must be cleaned and maintained in accordance with Section 1.4 Maintenance.

:: The footrest is not designed to be sat upon.

:: The armrest is not designed to be sat upon.

:: The backrest is not designed to be sat upon when lowered to a position where this is possible.

:: When adjusted to the Trendelenburg position, the chair has been designed to take the patient's weight only.

:: The maximum load for the chair is 140 kg.

:: Take care not to get hands or limbs trapped in moving parts when using the electrical features (marked with yellow warning labels).

:: The chair should not be sat upon during transportation.

:: To prevent unintended adjustments, all electrical features are inactivated when the remote control button is released.

:: With annual servicing, the lifespan of the chair is 5 years of daily use up to 8 hours a day.

:: The chair is only intended for use by adults.

:: Make sure that cables and service cables do not pose a tripping hazard.

:: Make sure the chair is not driven over cables or service cables.

If the chair runs on battery, make sure the battery is charged 24 hours before use!

1.1.2. USE

The chair is an indoor chair intended for use by seated individuals in a hospital setting. The chair may be used in wards where non-invasive treatment is administered. The chair must not be used outside a hospital setting.

:: The chair is not designed to be stood upon.

:: To ensure the safe transfer of an individual on and off the chair, the brakes must be activated.

All versions of the chair have been tested and approved for a maximum user weight of 140 kg.

1.1.3. TRANSPORT

When transporting the chair by car, plane, or other means of transport, it must be securely packed!

:: Adjust the height upwards approx. 10 cm, so that there are no moving parts below frame height. This is checked by moving the foot/hand along the lower edge of the frame side.

:: The hand control is turned to "locked" with the supplied blue key.

:: All brakes on castors must be activated.

The chair is not approved as a passenger seat in means of transport and must therefore not be used as such.

The chair is fit for the following transport specifications:

Temperature: - 40°C to + 70°C (refer to Section 1.4.2 Upholstering)
Humidity: 15% to 95%
Air pressure: PPP up to 1,000 metres above sea level.

1.2. WARRANTY

VELA Medical offers warranties in accordance with the laws of the country in which the chair is sold. The warranty is only applicable for chairs using authentic spare parts and accessories, and for chairs that have been modified by authorised technicians.

Note: This is subject to change if special contractual obligations have been established with VELA Medical.

VELA Medical is not liable for damages to the product or the user arising from:

:: Transport

:: Misuse

:: Standard wear and tear

:: Incorrect use

:: Use of spare parts and accessories not manufactured by VELA

:: Modifications carried out by unauthorised technicians

1.3. UNWRAPPING THE CHAIR

SIf the chair is delivered with missing parts or transport-related damages, contact VELA Medical immediately. In such an event, do not attempt to repair any damages yourself or start using the chair.

Contents of Delivery:

:: Chair and any accessories, such as the side table.

:: User guide for the chair.

1.4. MAINTENANCE

We recommend annual servicing of the chair to identify any defective or worn parts.

All removable parts must be tightened regularly.

1.4.1. WHEELS
We recommend checking and cleaning the wheels regularly to remove fluff, hair, and dirt.

1.4.2. FRAME
Clean the frame with lukewarm water, and pH-neutral soap if needed.

1.4.3. UPHOLSTERY
Magic Premium by Cotting Group:
Abrasion resistance: About 500,000 Martindale, ISO 5470-2
Biocompatibility: ISO 10993-10:2014
Lightfastness: Light ≥ 6; perspiration (ISO 11641): Class 4
Surface resistance: Blood/urine (EN 12720)
Flame protection: BS 5852 crib 5, B2 (DIN 4102), EN 1021.1-2, IMO A652, temperature: -40°C to + 70°C

Maintenance: Regularly wipe down the PU textile with clean, warm water and pH-neutral soap. Use a clean, white, soft cloth or sponge. Wipe down with a clean, wrung-out cloth. Vacuum with a soft brush.

Stains: Remove immediately using an absorbent cloth.

Disinfection: The textile must be cleaned prior to disinfection.
The following cleaning products can be used: 70% Ethanol (hospital disinfectant) ISO 1164, or chlorine-based products with 5,000 ppm active chlorine, such as Actichlor Plus. We advise following the instructions on the packaging.

After cleaning/disinfection, the chair must be wiped down several times with a clean, wrung-out cloth.

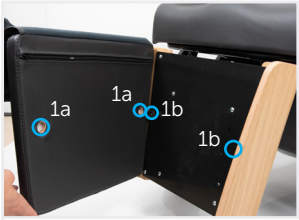
1.5. RECYCLING AND DISPOSAL
This product contains recyclable materials. For this reason, the product must be disposed of in accordance with local legislation and not with regular household items.
Correct disposal and recycling reduce the negative impact on the environment and human beings.

Note: Electrical and electronic equipment as well as batteries contain materials, components, and elements that can be harmful to human health and the environment if not handled correctly.

Electrical and electronic equipment, as well as batteries, are marked with a symbol to show they must be disposed of independently and not with unsorted household waste.

It is important to take your used batteries to the established venues to ensure they are reused in accordance with legislation and do not cause unnecessary harm to the environment.

1.6. PLACING/REMOVING PILLOWS



1.6.1. FOOTREST

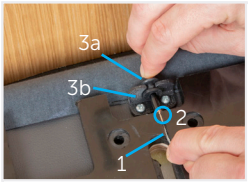
1. Push the pillow against the footrest so the holes (1a) are pressed into the rubber brackets (1b).
2. Push the pillow firmly in place so that it cannot be moved up or down.
3. Click the cover (3a) onto the seat pillow (3b) to mount correctly.

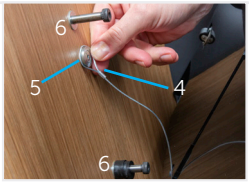
Note: there are buttons on both sides of the cover.

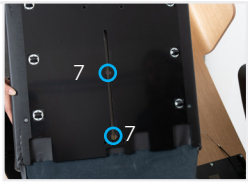
1.6.2. SEAT

1. Place seat pillow (1a) against the metal frame (1b).
2. Ensure that the metal frame catches the hold on the seat plate so that the seat (2) does not move.
3. Click the cover (3a) onto the seat pillow (3b) to mount correctly.

Note: there are buttons on both sides of the cover facing the backrest and footrest.







1.6.3. BACKREST

1. Bring the wire (1) up through the hole (2) at the base of the backrest until fixed in place. Note: rubber ring (3a) must be pushed totally in place in the mounting (3b)!
2. The wire (4) is attached to the anchor (5) on the wooden frame.
3. The two holes (7) on the backrest is hinged on the metal bracket (6) Note: be carefull not to pull the wire that connects the backrest and the wooden frame.
4. Push the backrest (8) down so the backrest slips into place.

Note: once the backrest has been mounted, test the back angle. If the backrest shifts against the wooden frame, the length compensation is working as intended and the backrest pillow has been mounted correctly.

When removing pillows, follow the instructions in reverse!

1.7. QUICKGUIDE – REMOTE CONTROL

Before Use: The supplied blue "key" must be used at the back of the hand control to turn from locked to open "padlock". This in order to use the chair's electrical functions.

Remote Control

Can be placed on the side table or the bracket for the side table or behind the chair.
Note: if the remote control is to be moved to the other side of the chair, this must always be done by bringing it behind the chair in order to avoid pinching hazards.

1.7.1. LIFT (SEAT HEIGHT)

Press the button on the left (1a) to lower the chair or press the button on the right (1b) to raise the chair.

Warning! Beware of trapping hands or limbs underneath the chair when using the lift.

1.7.2. SEAT ANGLE AND FOOTREST

Press the button on the left (2a) for assistance to get out of the chair. Press the button on the right (2b) for resting position.
Note: footrest responds to the seat angle.

Warning! Beware of trapping hands or limbs underneath the chair when using alighting assistance.

1.7.3. BACKREST ANGLE

Press the button on the left (3a) to angle the backrest forwards.
Press the button on the right (3b) to angle the backrest backwards.

Warning! Do not sit on the backrest.

1.7.4. NEUTRAL AND TRENDELENBURG POSITIONS*

Press the (green) button on the left (4a) to reset the chair to a neutral position.
Press the (red) button on the right (4b) (additional purchase) to adjust the chair into Trendelenburg (time: 20 seconds).
*Note: Not all chairs are equipped with the Trendelenburg feature!

Warning!

Beware of people around the chair and trapping hands or limbs in moving parts when using the electrical features.

1.8. SETTINGS

Modifications and repairs to the chair must only be carried out by a VELA Medical technician or a person with the required training.

1.8.1. USING THE BRAKES

Press down on the brake pedal on the right or left side of the chair to apply the brake to the back wheels. Red to engage the brake. Green to disengage the brake.
Refer to Section 1.8.5 Using the Front Brakes.
Note: the pedal applies the brakes to the two back wheels.

1.8.2. USING THE FOOTREST

The footrest follows the seat angle.
Refer to Section 1.7.2 Seat Angle and Footrest.

Warning! Do not sit on the footrest.

1.8.3. ADJUSTING THE ARMREST

Pull up the handle under the armrest and push the armrest down. The armrest will lock again when the handle is released. The armrest can be raised by activating the handle again.

Warning! Do not sit on the armrest.

1.8.4. ADJUSTING THE NECK PILLOW

The neck pillow can be adjusted using counterweight.
Push the neck pillow up or down to the desired height.

1.8.5. USING THE FRONT BRAKES*

Double wheels with button-activated brakes. Press the buttons on the right and left side of the chair to engage brakes completely.

Note: the button-activated brakes only engage two front wheels and should always be used with the pedal (Section 1.8.1.).

1.8.6. BATTERY*

The battery allows the user to use all electrical functions without needing a socket – even Trendelenburg (additional purchase). The battery is charged when the chair is plugged into a socket (charging time: 8 hours).). An LED light on the battery is illuminated in red during charging and turns green once the battery is fully charged. The LED light can only be seen when alighting assistance is activated. The chair should be charged every day. Not all chairs are equipped with a battery.

* Depending on the model

1.9. ELECTRICAL FEATURES

Figure 1

Neutral/Lift down

Lift up

1.9.1. LIFT (UP OR DOWN)

The button on the left lowers the seat.
The button on the right raises the seat (Figure 1).

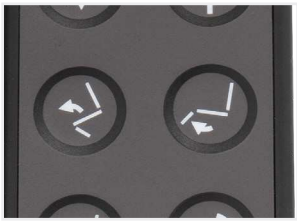
Warning! Beware of trapping hands or limbs underneath the chair when using the lift.

Figure 2

Alighting assistance

Neutral

Footrest engaged



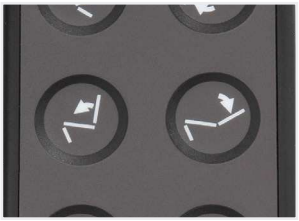
1.9.2. ALIGHTING ASSISTANCE AND FOOTREST

The button on the left activates alighting assistance. The button on the right sets the chair to a seated position and activates the footrest to a resting position (break for 0.5 seconds in neutral position) (Figure 2).
Note: footrest follows the seat angle.
Warning! Beware of trapping hands or limbs underneath the chair when using alighting assistance.

Figure 3

Neutral

Maximum back angling



1.9.3. BACKREST ANGLE

The button on the left angles the backrest forwards. The button on the right angles the backrest backwards (Figure 3).
Note: the backrest can only be serviced when the seat is in a horizontal position (Sections 1.7.2./1.7.4.).

Figure 4

Neutral

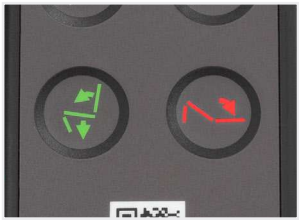
1.9.4. NEUTRAL POSITION

The green button resets the seat height, back angle, and footrest to the neutral position (Figure 4).
The process sequence for resetting to the neutral position is 1. Backrest up, 2. Seat angle neutral, and 3. Seat down.
Note: if the chair is equipped with the Trendelenburg feature, this feature also resets to the neutral position (Section 1.9.6.).

Figure 5

Maximum back angling/footrest engaged

Trendelenburg



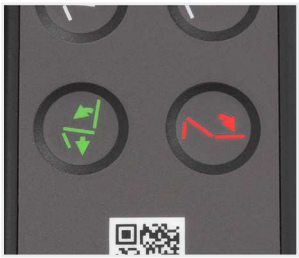
1.9.5. TRENDELENBURG*

The (red) button on the right angles the seating unit to Trendelenburg (backrest horizontal, footrest up) (Figure 5).
Note: not all chairs are equipped with the Trendelenburg feature!

Figure 6

Trendelenburg

Neutral



1.9.6. NEUTRAL POSITION AND TRENDELENBURG*

The (green) button on the left resets the chair to the neutral position (Figure 6).
The process sequence for resetting to the neutral position is 1. Trendelenburg tilt to neutral, 2. Backrest up, and 3. Seat down.
Note: not all chairs are equipped with the Trendelenburg feature!

* Depending on the model

2.0. TECHNICAL DATA AND DOCUMENTATION

2.1. SPECIFICATIONS

Maximum external measures (armrest and footrest horizontal):	180 cm x 81 cm (without side table)
Weight:	91 kg
Wheel size:	100 mm
Minimum/maximum seat height:	47-87 cm
Back angling:	43° (110°-153°)
Trendelenburg back angling (additional purchase):	Horizontal position, 0°
Maximum load:	140 kg
Electrical potential:	230V (for regular sockets)
Battery (additional purchase):	Li-Ion 25.2V, 1800 mAH, IP66

STORAGE AND TRANSPORTATION

The chair is intended for indoor use and storage.
The electrical cable (on the back of the chair) must be rolled up during transportation.
The side table and other mounted equipment must be removed prior to transportation through doorways.
The side table is removed by pulling the table up.
Note: the chair must not be sat upon during transportation.

2.2. ELECTROMAGNETIC EMISSION

RF emission CISPR 11, Group 1, Class A
Harmonic Emissions IEC 61000-3-2, Class A
Voltage changes/fluctuations and flickers IEC 61000-3-3

Immunity Test	Test Level Professional Healthcare
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact disharge ± 2,4,6,8,15 kV air discharge
Radiated RF field IEC 61000-4-3	3 V/m 80 MHz – 2.7 GHz 80% AM 1 kHz
Proximity fields from wireless transmitters IEC 61000-4-3	80 MHz to 2700Hz. 3V/m Spot Test: 385 MHz. at 27V/m; (710,745,780,5240,5500,5785) MHz. at 9V/m; (450,810,870,930,1720,1845,1970,2450) MHz. At 28V/m
Electrical fast transient / burst IEC 61000-4-4	± 2kV, AC mains ± 1kV, I/0 ports 100 kHz PRR
Surge IEC 61000-4-5 AC mains, Line to Ground AC mains, Line to Line	 ± 0.5, 1, 2 kV ± 0.5, 1 kV
Conducted RF IEC 61000-4-6	3 V (0.15 – 80 MHz) 6 V ISM Bands 80% AM 1 kHz
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m – 50 or 60 Hz
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	100% dip, 0.5 periods, 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315° 100% dip, 1 period 30% dip, 25/30 periods (50/60 Hz) Interrupt 100% drop, 5 sec.

NOTE: The EMISSIONS specifications for this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 Class A). If the chair is used in a residential environment (which normally requires CISPR 11 Class B), this equipment might not provide adequate protection for radiofrequency communication services. The user might have to take necessary precautions, such as moving or adjusting the equipment.

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