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Instructions for use Models 5380, 5380 K

Help

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Version, Imprint, Type plate

Instructions for use G67 Rev. 2 (03.2018) for Völker healthcare bed models 5380, 5380 K built after April 2005

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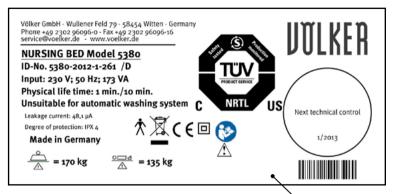
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We reserve the right to make changes to reflect technical advances.

The contents of this document are subject to change without prior notification.

Customers are advised to contact the responsible area sales manager before placing an order.

Type plate



The type plate is located on the inside of the head panel.

Raise the rear section to read the type plate.

For further information on the type plate, see Appendix \square 66.



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Foreword

We are delighted that you have chosen Völker healthcare beds.

We are also grateful for the trust you have placed in our company and our products.

This step is undoubtedly the result of extensive considerations and examinations of the requirements that you want to make on new healthcare beds based on your previous experiences.

You clearly had good reasons to choose Völker healthcare beds.

We promise you that Völker healthcare beds will not disappoint you.

It is not without good reason, after all, Völker healthcare beds are now regarded worldwide as extremely innovative medical products. This relates not just to the design principle, which has been completely redeveloped by Völker, but also to the range of product advantages that have been checked and improved time and time again based on their practicality in use. These advantages now benefit the patient in terms of comfort, but also make the everyday work of care personnel easier.

Now, every healthcare bed has product features that are of practical benefit to their users. However, as far as we know, none of them offers the range of advantages that a Völker healthcare bed does. Völker healthcare beds not only look great, but they also offer functions that can be controlled or adjusted mechanically, although most of them are controlled or adjusted using electric motors or electronic components.

If you purchase these beds, the responsibility for their correct and appropriate use is transferred to you. Consequently, we strongly advise that you consult the enclosed instructions for use to learn about the technical features, handling and use of all the functions.

We wish you every success with Völker healthcare beds,

yours Völker GmbH

Notes

The **Notes** section contains information on the designated purpose of the product, as well as general safety notes.

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Notes | General information

General notes

You have purchased a healthcare bed from Völker GmbH.

This healthcare bed has been built in accordance with the applicable national and international standards and the regulations reflecting the current state of the technological art.

Völker healthcare beds satisfy all the requirements in terms of safety and functionality. They are tested in accordance with international standards and bear the CE mark, which documents the beds' compliance with essential requirements for medical products.

Please read the general safety notes 11. Please also note (with particular attention to any warranty claims) the further notes on the following pages.

Standard design

The standard design of the bed can be supplied with various options. A description of these options can be found in the section entitled Versions and options \square 25.

Copyright protection

These instructions for use may only be transferred to third parties with the written consent of Völker GmbH. All documents are protected under copyright.

Warranty and liability

Völker GmbH is liable for any faults or failures, not including further claims arising in the context of the warranty obligations detailed in the main agreement. Claims for compensation, for whatever legal reason such claims may be raised, will not be entertained.

We reserve the right to make technical modifications as part of the further development of the healthcare beds which form the subject of these instructions for use.

We accept no liability for damage and operational faults caused as a result of misuse and/or non-observance of these instructions for use.

The portrayal of the accessories does not necessarily match the actual product.

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Notes | Designated purpose

Correct use

The Völker healthcare bed models 5380 and 5380 K are intended for the laying down and care of patients in care institutions and hospitals.

The bed is intended for use by people over the age of 12 or who are taller than 146 cm.

The bed's safe working load is 170 kg. The maximum permissible weight of the individual is derived by deducting the weight of the mattress, the trapeze handle and other accessories from this.

Any use of the Völker healthcare bed other than for the purpose intended excludes the company from any possible liability.

Inappropriate use

Inappropriate use can cause danger. These include, but are not limited to:

- Incorrect actuation of electrical functions and uncontrolled positioning;
- Operation of the healthcare bed by the occupant without having received prior instruction in how to do so;
- Use of electrical equipment on the bed that is not intended for such use (subject to the operator's obligation to exercise care);
- Pulling on cables to move the bed;
- Loosening electrical plug connections by pulling on the cable;
- Use of the bed on a sloping base with more than ten degrees of inclination (the bed's brakes are designed for an angle of inclination of no more than ten degrees);

- Any attempt to move the bed while it is in braked position;
- Use of the bed to transport people;
- Use of the bed for transport with a vehicle;
- Overloading of the bed beyond the specified safe working load.

CAUTION If, in an emergency situation, it is impossible to avoid putting children under the age of 12 or people who are less than 146 cm tall in the bed, protective covers must be placed on the side rails. This also applies to the use of the bed by weak or confused patients.

The use of the bed for children under the age of 8 is absolutely forbidden.



Notes | General regulations and user training / instruction

General regulations

The healthcare bed must only be operated and used in accordance with its designated purpose, in line with the conditions of the Medical Products Directive (MPG) and approved legislation pursuant to this, the generally acknowledged rules of technology and the stipulations of occupational safety and accident protection guidelines. The healthcare bed must **not** be operated in a faulty state that could endanger its occupant, care personnel or third parties.

User training

The healthcare bed may only be operated by individuals whose training or understanding and experience offer surety for correct handling (medical products directive).

User instruction

The thorough induction of care personnel in the operation of the bed can be provided by Völker or its representative at the customer's request.

Attendance of such training by care personnel can be certified and confirmed by Völker using the form provided for this purpose, specifying the name, date and signature.

Patients must be instructed in the use of the bed before care personnel hand over the hand control to them.

Other requirements

Whoever is in charge of the activation, operation or preparation of the bed must have been given a copy of these instructions for use (in printed or electronic form) and have read them.

To avoid operating errors and to safeguard the smooth operation of the bed, care personnel must always have access to the safety notes below.

Notes | General safety notes 1/4



Warning symbols Information marked with this symbol must be read and its content strictly observed.



DANGER represents an immediate threat of danger that can cause serious physical injury or death.



WARNING represents potentially dangerous situations that can lead to serious physical injury or death.

1	Λ
2	<u>! \</u>

CAUTION represents potentially dangerous situations that can cause slight physical injuries.

NOTE warns of potential damage to objects or property.

Before first activation

Before the healthcare bed is put into action for the first time, care personnel must read these instructions for use in full and with care.

Before the bed is activated for the first time, care personnel must be instructed in the handling of the bed using the instructions for use. The potential dangers that can arise despite correct operation of the bed must also be pointed out in full.

Before and during use

Before each use of the bed, the user must be sure that the bed is in a good, safe condition and will ensure safe use (Functional check \square 35).

Position of the care bed



CAUTION To avoid injuries caused by falling, we recommend (except while care is being given) that the bed is generally set at its lowest position when the castors are raised. While the bed is in its lowest position, it is automatically braked.

Transporting the bed

CAUTION The healthcare bed is not designed for transporting people. When transporting the bed, it must always be ensured that the mains connection cable is not touching the floor, the lying surface is in the horizontal position and that the lying surface height is at least 35 cm. The bed must only be moved over solid ground. Never attempt to push it over obstacles of over 1 cm in height. The maximum angle of inclination of the floor must not exceed 10°.



Notes | General safety notes 2/4

Securing the bed



CAUTION "Risk of accident"

If the bed is not being transported, the brake must always be applied, since the bed may be required as a support for when the occupant stands or lies down. If the brake is not applied and the bed rolls away, the patient may fall. Once the brake has been applied, check that the bed is actually properly parked.

The bed can be in a non-fullybraked status even after first activation or reactivation, and consequently it must be checked that the castors are correctly raised.

One-sided load on the bed

NOTE In order to prevent onesided loads on the bed, it must not be used as a seat for persons other than the occupant (i.e. visitors must not sit on the edge of the bed).

Side rails



WARNING "Risk of entrapment"

In the case of occupants whose physical or mental condition would deem it necessary to use side rails to protect them from falling out of bed, the following safety measures must be observed:

• The legal permissibility of using side rails must be ascertained.

- The side rails may only be operated by trained care personnel.
- Ensure that the side rails (or parts thereof) are either fully raised and locked in position or completely lowered.
- It must be ensured that the occupant, when the electrical lying surface adjustment is actuated, does not come into contact with the side rail elements. It is also important to ensure that no part of the body is sticking out through the side rails.
- If the side rails are used with a person whose psychological condition would deem their use necessary, then it must be ensured that the hand control is kept out of their reach or its functions are blocked. It is strongly recommended that side rail covers are used.

Notes | General safety notes 3/4

 If these safety measures are not observed by care personnel, injuries can be caused to hands, knees, fingers, feet, legs and hips, along with haematomas and other injuries as a result of entrapment. In children or people who are less than 146 cm tall, non-observance of these guidelines can lead to death!

WARNING "Danger of injury"

If the side rails are damaged, the bed must not be used and must be repaired.

Height adjustment

▲ DANGER "Risk of entrapment between the lower frame and/ or floor and the bed frame when lowering the bed" It must be ensured that, during adjustment procedures, no people, limbs, pets, bed linen or other objects are trapped between the bed frame and the lower frame and/or floor.

DANGER "Risk of movement"

If any movement of the bed could represent a danger for the occupant, all functions must be blocked.

Accessories



WARNING "Risk of injury" Only original Völker accessories should be used! Third-party accessories must be subjected to testing before use.

Using lifting devices



WARNING "Risk of injury" No lifting device must be fastened directly to the bed (patient transport, repair). Patient lifters must also not be used, as a result of the design.

The lifting devices specified are devices that can be attached to the bed for transport purposes.



Notes | General safety notes 4/4

Using oxygen equipment



DANGER "Risk of fire"

Do not use any oxygen equipment other than that which is administered via nasal prongs or masks. Do not use the bed in a room with a potential explosion risk.

(Provided it has been excluded (e.g. based on information in the instructions for use of the equipment being used) that the use of the equipment may cause the O_2 concentration to rise to such a degree that there is an explosion risk (even when there is no fault), then the equipment can be used).

Rail spacers

When using the rail spacer, please read the separate instructions for use for this accessory. During technical checks, the rail spacers should also be checked to ensure they are suitable for the size of side rail used.

Cleaning and disinfection

In order to maintain consistent functioning, the healthcare bed should be cleaned, disinfected and tested at the soonest possible opportunity following each use, so that it can be reused immediately without risk.

Dangers can arise from the incorrect cleaning / disinfection \square 48 of the bed.

Maintenance and repair

Anyone responsible for carrying out maintenance and repair work must at least have read the safety notes and the service manual and be qualified in accordance with MPBetreibV §§ 4 and 6.

Once maintenance work or repairs have been carried out, a technical check 54 must be carried out. During this check, it must be determined that the bed can be used in accordance with the specifications without risk to the occupant, user or third party. The technical check must be carried out at least once a year and after every lengthy period of non-use.

Any discernible damage, such as signs of wear and tear, loose screws or breaks/fractures must be eliminated immediately.

Electromagnetic / static interference

The healthcare beds in model series 5380 and 5380 K satisfy the EMC requirements in accordance with the law on medical products (MPG). The basis for testing is standard EN 60601-1-2.



Functional description

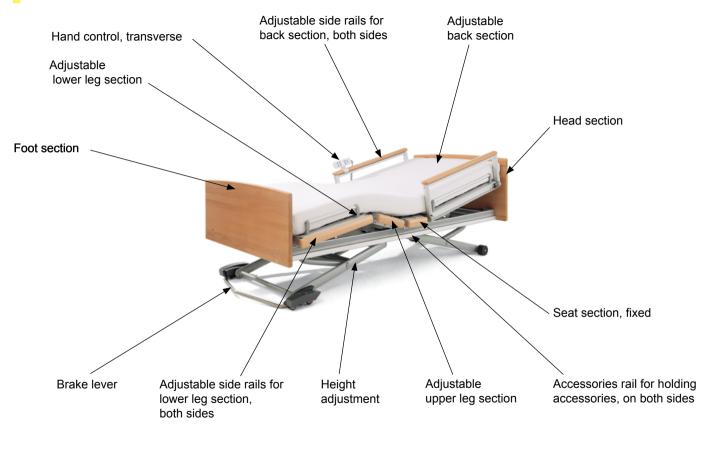
The features of the Völker healthcare bed and its function are set out in the section **Functional description**.



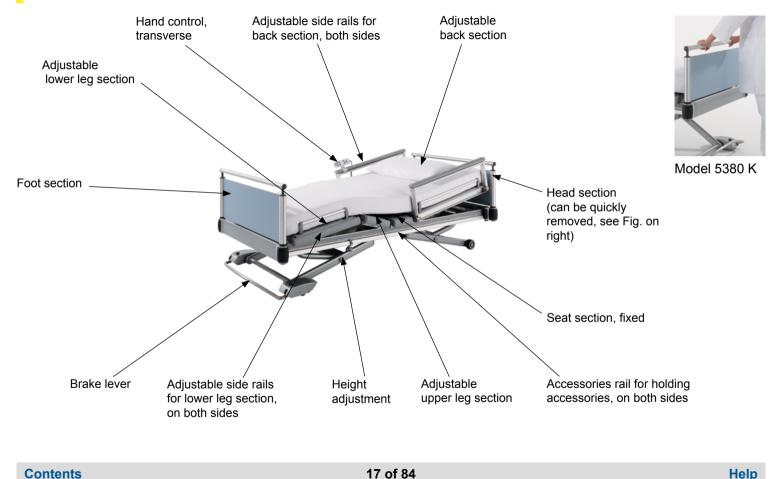
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Functional description | Overview | Model 5380



Functional description | Overview | Model 5380 K



Völker care bed models 5380, 5380 K built after April 2005 – Instructions for use G67

Functional description | Hand control with hook

Back rest section up

Upper leg section up

Anti-Trendelenburg positioning¹

Lying surface up



Back rest section down

Upper leg section down

Auto-Contour² (optional)

Lying surface down

Reverse:



Hand control unlocked



Hand control locked.

¹Head end raised

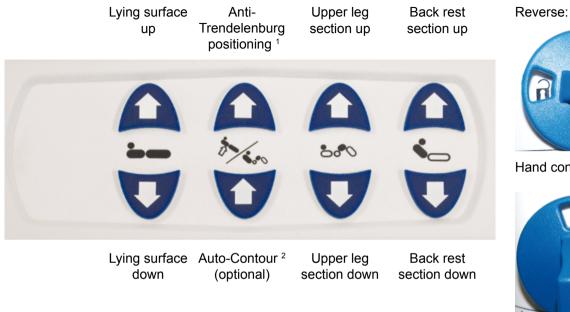
² Back and upper leg section raised

WARNING When actuating motorised adjustments with the side rails raised, it must be ensured that the occupant does not have any contact with the side rails, and that no parts of his or her body or that of other people are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor!

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Functional description | Transverse hand control (option)



Hand control unlocked

A

Hand control locked.

¹Head end raised

² Back and upper leg section raised

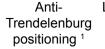


WARNING When actuating motorised adjustments with the side rails raised, it must be ensured that the occupant does not have any contact with the side rails, and that no parts of his or her body or that of other people are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor!

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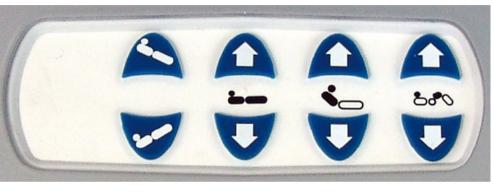
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Functional description | Personnel keypad with complete lock-out 1/2 (option)

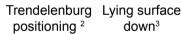


Lying surface Back rest section up

Upper lea section up Reverse:



up³



Back rest Upper leg section down section down



Hand control unlocked



Hand control locked.

¹Head end raised

² Head end lowered

³ The personnel keyboard can be equipped with an automatic function (double-click) on a country-by-country basis (see next page).

WARNING When actuating motorised adjustments with the side rails raised, it must be ensured that the occupant does not have any contact with the side rails, and that no parts of his or her body or that of other people are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor!



Functional description | Personnel keypad with complete lock-out 2/2 (option)

Double-click function "Lying surface up/down"

The personnel keypad can be equipped with an automatic function (double-click) for lying surface height adjustment on a country-by-country basis.

With a double-click on the "Lying surface up" or "Lying surface down" button, the lying surface moves to the highest or lowest position, respectively. This function can be stopped at any time by pressing any button.



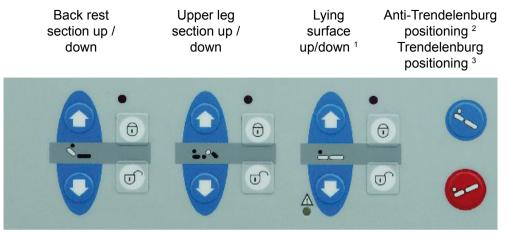
WARNING "Risk of entrapment"

If the double-click function is being used, the care giver must supervise the occupant of the bed until the adjustment proceure has completed.

DANGER "Risk of entrapment between the lower frame and/or floor and the bed frame when the bed is being lowered"

> It must be ensured that: No people, limbs, pets, bed linen or other objects are trapped between the bed frame and lower frame and/or floor during adjustment manoeuvres.

Functional description | Personnel keypad with individual lock-out 1/2 (option)



The LED glows red if the up or down button is pressed while the funktion is locked.

Lock the relevant function.

- Unlock the relevant function.
 - The LED glows yellow when the lying surface has reached its lowest position.
- ¹ The personnel keyboard can be equipped with an automatic function (double-click) on a country-by-country basis (see next page).
- ² Head end raised

³ Head end lowered

WARNING When actuating motorised adjustments with the side rails raised, it must be ensured that the occupant does not have any contact with the side rails, and that no parts of his or her body or that of other people are sticking through the side rails or are trapped between the lying surface and the lower frame and/ or floor!

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Functional description | Personnel keypad with individual lock-out 2/2 (option)

Double-click function "Lying surface up/down"

The personnel keypad can be equipped with an automatic function (double-click) for lying surface height adjustment on a country-by-country basis.

With a double-click on the "Lying surface up" or "Lying surface down" button, the lying surface moves to the highest or lowest position, respectively. This function can be stopped at any time by pressing any button.



WARNING

"Risk of entrapment" If the double-click function is being used, the care giver must supervise the occupant of the bed until the adjustment procedure has completed.

🔨 D

DANGER "Risk of entrapment between the lower frame and/or floor and the bed frame when the bed is being lowered"

It must be ensured that: No people, limbs, pets, bed linen or other objects are trapped between the bed frame and lower frame and/or floor during adjustment manoeuvres.

Functional description | Trapeze bar and accessory holders, accessories rail

On the inside of the head panel are holders for the trapeze bar and accessories. On model 5380 K, there are two additional sockets for drip stands at the head and foot ends, next to the protective wheels.

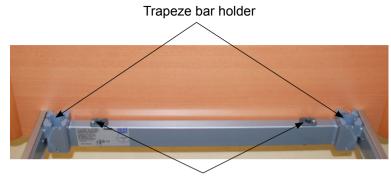
The trapeze bar and other accessories must be slotted into the holders until they audibly engage.



WARNING "Risk of injury" Ensure that the trapeze bar is completely slotted into the holder and securely seated. Note: the safe working load of the trapeze bar is max. 75 kg.

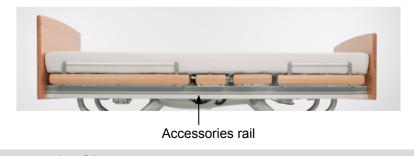
WARNING "Risk of falling"

The trapeze bar must not be used by the occupant as an aid for climbing into the bed. The trapeze bar must never jut out beyond the outer edge of the bed and only then be used as a pulling-up aid (e.g. when getting out of a wheelchair).



Accessories holder (e.g. for drip stands)

There is an accessories rail on either side of the bed to accommodate accessories.



Functional description | Versions and Options 1/2

The standard designs of the healthcare beds can be supplied with various versions and options:

Version / option

Description

Hand control (versions)

1. With hook (standard) *:



2. Transverse on the side rail with clip (option)*:



*A hand control with Auto-Contour button is optionally available

Version / optionDescriptionPersonnelTransverse on the side rail with clipkeypad with(option):complete blockImage: Complete block



Personnel keypad with individual block Transverse on the side rail with clip (option)**:

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	V *	V *	0	

** On model 5380 K, there is an additional fastening option at the foot end with a hook

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Functional description | Versions and Options 2/2

	Version / option	Description		
	Side rails (versions)	Models 5380 and 5380 K can be equipped with various side rail versions:		
		Back / lower leg section:		
		 Can be pulled out to 34 cm* (standard) 		
		 Can be pulled out to 40 cm* (version) 		
		* Measured from the top edge of the side rail to the lying surface (without the mattress).		
These instructions for use cover all of the versions and op- tions listed.				

Precise details of the supplied bed designs can be found in the order specifications for your beds. If the original bed specification should no longer be available, please contact Völker Customer Services. Make a note of the Völker serial number (ID No.) on the type plate 📖 66 before you call.

Functional description | Accessories 1/2

To offer the greatest possible degree of flexibility, Völker offers a wide range of easy-to-attach accessories. The healthcare beds are equipped as standard with holder devices for accessories, such as drip stands and trapeze bars.

Further information about accessories can be found in our current information brochure or on the Internet at www.voelker.de . Our staff will gladly provide you with more details on the accessories that are available for your bed model.

WARNING Only original Völker accessories should be used! Third-party accessories must be subjected to testing before use.

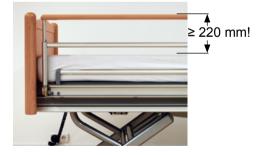
Mattresses

Mattress size	Mattress frame size	Density
88 x 200/220 x 12 cm	90 x 200/220 cm	40-50 kg/m ³

To minimise the risk of injury, only use mattresses with the dimensions and properties detailed above. If you do not use Völker mattresses, please contact a dealer in whom you have confidence.

A DA

DANGER If mattresses are used that do not match these specifications, there is a risk of suffocation! ▲ DANGER The height of the raised side rail above the mattress must always be greater than or equal to 220 mm; otherwise the occupant of the bed may accidentally fall out of bed. Please note that the height of the mattress has a direct influence on this.



Functional description | Accessories 2/2

Use of securing systems

Securing systems such as belts or straps should only be used exactly as specified by the manufacturer.

If securing systems in the form of abdominal belt are used, then it must be ensured that the side rails are completely raised. The gap in the middle of the rails must always be closed using a rail spacer.



DANGER When using securing systems and rail spacers, please note the separate instructions for use pertaining to these accessories.

The lying surfaces must **never** be adjusted while the patient is secured **and** must always be in the lowest position!

The lying surface adjustment functions must be locked when a patient is secured, and the hand control must be kept out of the bed occupant's reach!

Activation

The section entitled **Activation** describes the preparation of the bed for use, including the functional check.



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Activation | General operating instructions

On-time

The maximum duty cycle for the electromotive bed functions is specified on the bed (type plate \square 66) or in the technical data sheet.

1 min/10 min. means that each electromotive adjustment may be operated for a maximum of 1 minute in 10 minutes (protection against overheating).

> **NOTE** Should the maximum duty cycle of 1 minute be exceeded repeatedly or for longer, safety cutout devices on the bed may cause the electromechanical motor system to stop. The bed must not be manoeuvred using the motors until it has cooled down sufficiently! In the event of severe overloading, damage can occur to the motor.

Battery pack (option)

The battery pack in the bed has a charge capacity that is equivalent in theory to a constant operation of 2 lifting and lying surface adjustments with a working load of 170 kg.

NOTE If the bed is parked at its location and the mains plug is not connected, this will cause self-discharging of the battery pack!

Fully discharged battery packs can be damaged to the extent that premature replacement is needed!

Appropriate and correct use of the battery is essential for achieving a long service life for the battery pack!

In order to guarantee electrical functionality at all times, the bed should be connected to the mains when ever possible.

Safety cut-out device

The bed is equipped with an electrical, self-resetting safety cut-out device that prevents overloading of the motor systems. In the event of very severe overloading, the bed is automatically switched off.

Activation | Preparation

Conditions for set-up

The bed is only approved for use in dry rooms (technical data sheet). A mains power supply and possibly a potential connector are required for operation of the bed in any suitable room.

Mechanical activation

The supplied head and foot sections must be screwed to the side panels (model 5380) or slotted into the corner connectors on the bed frame (model 5380 K).

The brake catches and the wheel trim must be screwed on.

Hand control connection

The hand control should be connected to the socket provided, where appropriate. The spiral cable must be routed so that it is not under tension.



Routing the hand control cable

Bed transport

The bed can be moved without auxiliary transportation devices. To do this, put the bed in movement mode (put the lying surface horizontal, set the lying surface height to at least 35 cm and release the brakes \square 38).

NOTE The bed can only be steered from the foot end.

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CAUTION The healthcare bed is not designed for transporting people. If a patient is lying in the care bed, it must only be pushed within the room. The bed should only be moved on a solid floor. Never attempt to push it over obstacles of over 1 cm in height. The maximum angle of inclination of the floor must not exceed 10°.

NOTE The bed must be transported by at least two people, taking hold of the bed at the head and foot section.



Bed transport by at least two people

Help

Activation | Electrical activation



WARNING Ensure that the plug connection between the mains cable and the lying surface adjustment motor is correctly positioned!

WARNING Check the mains cable for damage. If the cable is damaged, the bed must not be used and must be taken out of service immediately!

NOTE Please be aware that incorrect handling of the mains isolation switch can lead to the battery pack (optional) no longer charging.

Incorrect handling includes, but is not limited to, allowing the mains isolation switch to fall, pulling the mains isolation switch cable to release it from the socket and driving over the cable when transporting the bed. 1. Connect the mains isolation switch to the mains power socket.



2. Press the green button on the mains isolation switch for a second to allow the mains connection.

 Unlock the lock-out switch on the reverse of the hand control and the personnel keypad (optional) using the socket wrench (open lock visible) in order to activate the bed's electrical functions.



Activation | Using the battery pack (option) 1/2

The battery pack (option) allows the bed to be operated independently of the mains supply for at least three adjustment cycles.

The LED displays three colours:

Green	The battery pack is con- nected to the mains sup- ply. The charging cycle is running.
Orange	The battery charger is being charged. The bed should not be operated independently of the mains supply.
Red	DANGER ZONE. The battery pack must be charged. The bed cannot be operated independently of the mains supply.
All lights off	The battery pack is fully charged: the mains cut-off is activated. No current flows in standby mode.

If you hear a beep, the battery pack needs to be recharged. The beep becomes weaker as the battery pack's charge diminishes. The battery pack is switched off shortly before fully discharging. After the bed is connected to the mains supply, press any button on the hand control to render it fully functional again. The battery pack is charged when it is connected to the mains after every use or if the charge has fallen too low.



NOTE If the bed is stored for a long period without being connected to the mains supply, the battery pack can discharge. The degree of discharge depends on the environmental conditions.

NOTE During the charging cycles, the battery pack is connected to the mains supply and is therefore fed with electricity. The LED displays the battery pack's charging status during the charging cycle. The current cut-off is deactivated and current flows to the bed.



WARNING If electromagnetic interference occurs with other equipment in the area around the bed, please refrain from using these devices.

When the bed is being transported, it must always be handled carefully and protected from moisture.

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Activation | Using the battery pack (option) 2/2 and taking out of service

NOTE The bed is designed for use in an ambient temperature range from 10 °C to 40 °C, with a relative humidity of 30% to 40% and an air pressure of 700 to 1060 hPa.

WARNING The battery pack must only be replaced by personnel trained by Völker GmbH.

WARNING If the battery pack is faulty, degassing can occur. In rare cases, this can cause deformation of the battery pack housing. If this occurs, the bed must be immediately taken out of service and taken to an adequately ventilated room without sparks (electrical or fire). Immediately inform customer services should this occur!



WARNING The battery pack must be disposed of in an environmentally responsible manner using the appropriate services. Alternatively, you can return it to Völker GmbH for disposal.

To activate the hand control and the personnel keypad once the bed has been activated, the function key lock must be disabled \square 37.

Taking out of service

The bed is taken out of service by disconnecting it from the mains supply. To do this, the mains plug is disconnected from the mains socket and, if necessary, the optional battery pack disconnected from the control unit. If the bed is to be out of service for a period longer than two weeks, then the 9V battery must also be disconnected from the motor. To disconnect the 9V block battery, remove the two screws from the battery compartment lid on the two-side drive.



Then pull the contact strip off the battery.



Activation | Functional check

Visual inspection

Before each new occupancy of the bed, the following checks must be carried out:

- 1. Ensure the bed exhibits no visible signs of damage.
- 2. Ensure that the insulation of the electrical cables is intact.
- 3. Ensure that the next testing date has not been missed (see testing label).

WARNING Only undamaged beds that are still within their testing interval periods may be used!

Functional check

A functional check must be carried out before each new occupancy:

- 1. All electrical functions must be actuated once to their terminal positions.
- 2. The function of all side rails must be checked.
- 3. The secure position of the bed must be checked.

Once a fault-free functional check has been carried out, the bed is ready for use.

Operation

The **Operation** section provides you with all the information required to operate the Völker care bed.



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Brake	38
Side rails General safety notes Side rails	39 39 40
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Upper leg section	43
Lower leg section	44
Lying surface height	45
Anti-Trendelenburg and Trendelenburg positioning	46
Comfort seating position	47

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Help

Operation | Key lock

Activating the key block disables all of the bed's electrical functions.

The locking switches are located on the reverse of the hand control and the personnel keypad (option). They are unlocked and locked with the socket wrench (open lock visible).

If the bed functions cannot be actuated, check whether the key lock is engaged or not.

The socket wrench should be removed from the bed when it is not required.



Socket wrench ~



Hand control or keypad locked



Hand control or keypad unlocked

If the personnel keypad is locked, the hand control is also automatically locked (system lock).

If only the hand control is locked, the personnel keypad retains its full functionality.

Contents



Operation | Brake

To push the bed, the brake lever at the foot end must be pushed upwards. The lying surface must be in the horizontal position when the bed is being pushed, and the lying surface height be no less than 35 cm.

CAUTION "Risk of accident"

If the bed is not being transported, the brake must always be applied, since the bed may be required as a support for when the occupant stands or lies down. If the brake is not applied and the bed rolls away, the patient may fall. Once the brake has been applied, check that the bed is actually properly parked.

The bed can be in a non-fullybraked status even after first activation or reactivation, and consequently it must be checked that the brakes are correctly applied.

NOTE The bed is not suitable for transporting the occupant.

Applying the brake

To brake the bed, step on the brake lever. As soon as this engages, the bed is braked.

Releasing the brake

To release the brake, push the lever upwards again.

NOTE The bed can be moved from a lying surface height of at least 35 cm and with the lying surface horizontal. Please note that the bed can only be steered from the foot end (the end with the brake lever).



Brake lever -

Contents

Operation | Side rails | General safety notes

WARNING All people whose duties involve manoeuvring of the side rails must have read and understood the following information:

- During actuation of the back rest, upper leg or lower leg section adjustment, of the lift or of the side rails, it must always be ensured that the patient is not touching the side rails, and that no part of their body is sticking out through the side rails.
- If the side rails are used for an individual whose psychological condition necessitates their use, it must be ensured that the hand control is stored completely out of their reach or its functions are completely locked. In all cases, care must be taken to ensure that no dangers or risks can arise.

- · Protective coverings are available as an accessory for the side rails. These provide additional protection against injury from contact with the side rails. The use of these protective covers is recommended for all individuals where the risk of injury caused by unavoidable contact with the side rails is very high. The use of these protective covers, however, does not absolve care providers or the patient of the obligation to exercise the appropriate care and attention when operating the bed.
- If the side rails are used, they must always be either completely raised and securely engaged, or completely lowered to the end stop. Because of the risk of entrapment, they must **never** be left in a position where they are not completely engaged.

• If the side rails are damaged, there is a risk that the patient will fall out of bed.



Operation | Side rails 1/2

Raising the side rails

- 1. Pull the side rail element out horizontally sideways until the end stop, and fold it upwards.
- 2. To adjust the height of the side rail, pull the telescopic section upwards until it reaches its end stop.

Lowering the side rails

1. Press both buttons on the outside of the frame, right under the crossmember, to bring the heightadjustable rail element to its lowest position.



2. Press the "Drücken / Push" trigger at the lower end of the side rail element and tilt it sideways into the horizontal plane, so that it lies parallel to the floor.



3. Push the rail element completely underneath the lying surface.





The side rail elements can be used in various configurations as required to protect the occupant of the bed.

Raising all four rail elements offers the occupant maximum protection.



- WARNING The side rails should always be gripped with two hands at the ends of the element in question and guided upwards or downwards.
- **CAUTION** Any weight on side rail elements that are pulled out horizontally must not exceed 15 kg!





Operation | Side rails 2/2

NOTE Due to their exceptional stability, the side rail elements can also be used as a surface for storing bed linen (max. 15 kg) or as an additional supporting surface for care-related positions, such as Bobath treatments, or for the delivery of physiotherapy-related treatments.

Operation | Back rest section

The back rest section can be adjusted using the hand control or the personnel keypad (option).

The back rest section of the lying surface can be raised up to an angle of max. 70° .



WARNING When the back rest section is being raised with the side rails up, it must be ensured that none of the occupant's or any other person's body parts are sticking out through the side rails or are on top of them!



Back rest section up / down



Hand control



Back rest section up / down



Personnel keypad (option)



WARNING

"Risk of entrapment" When adjusting the position of the back rest section, do not touch the frame in the area of the back section!



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Operation | Upper leg section

The position of the upper leg lying surface can be adjusted using the hand control or the personnel keypad (option).

If necessary, disable the keypad lock $\hfill \square$ 37.

The upper leg section of the lying surface can be raised up to an angle of max. 45° .



WARNING When the lower leg section is being raised with the side rails up, it must be ensured that none of the occupant's or any other person's body parts are sticking out through the side rails or are on top of them!

Note that the lower leg section can be adjusted by pulling on the mattress holder (see also next page).

WARNING "Risk of entrap-

ment" When the position of the upper leg section is being adjusted, there is a risk of entrapment between the raised side rail and the foot section.



Upper leg section up / down



Hand control



Upper leg section up / down



Personnel keypad (option)



Operation | Lower leg section

The lower leg section can be moved manually to any position of maximum 45° by pulling on the mattress holder.

To lower the lower leg section, this must be pressed down on the mattress holder.



WARNING When the lower leg section is being raised with the side rails up, it must be ensured that none of the occupant's or any other person's body parts are sticking out through the side rails or are on top of them!





Operation | Lying surface height

The position of the entire lying surface can be adjusted using the hand control or the personnel keypad (option).

If necessary, disable the keypad lock $\hfill \square$ 37.

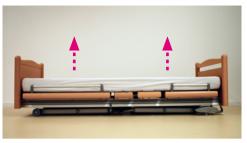
The lying surface height can be adjusted from 23 cm to 74 cm.

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WARNING To avoid dangers to the occupant from falling, we recommend that the bed be lowered all the way except when delivering care.

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DANGER Before lowering the bed, it must be ensured that no people, limbs, pets, bed linen or other objects are trapped between the lying surface and the lower frame or floor. The bed's position must be stable (brake applied) when the patient is getting in and out of the bed!



Lying surface up / down

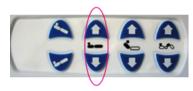


Hand control

WARNING When the height adjustment mechanism is actuated with the side rails up, it must be ensured that the occupant does not have any contact with the side rails, or that any parts of either the patient's body or of other persons are sticking through the side rails!



Lying surface up / down



Personnel keypad (option)

Contents



Operation | Anti-Trendelenburg and Trendelenburg positioning

The Trendelenburg position can be adjusted up to an angle of 12°.



CAUTION If a fault occurs with the lifting function, or the mains power supply fails and the battery pack is completely discharged, the Trendelenburg function cannot be engaged. The occupant may have to be placed in a different bed. With the optionally-available battery pack, all of the bed's functions remain available to you even in the event of a power failure.



WARNING Since the Trendelenburg position depends on clinical indications, it must only be used with the approval of an appropriately qualified clinician.



Anti-Trendelenburg positioning ¹



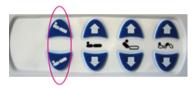
Hand control

The lying surface is automatically returned to its horizontal position if it is moved to its highest or lowest position.

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Anti-Trendelenburg positioning $^{\rm 1}$ and Trendelenburg positioning $^{\rm 2}$



Personnel keypad (option)

¹Head end raised ²Head end lowered

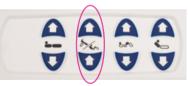
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Operation | Comfort seating position



Occupants who are unable to leave the bed either because their circulatory system is too unstable or they first have to be "taught" how to sit can gain a lot of benefit from the comfort seating position. It causes them to adopt an active seated position in the bed.

Anti-Trendelenburg positioning



Auto-Contour

Hand control with Anti-Trendelenburg positioning and Auto-Contour (option)

Adjusting the comfort seating position

1. Move the back rest **Q**^L

and the upper leg section upwards a little to a comfortable position.

You can alternatively reach this position in a single step by pressing

the Auto-Contour button

2. Tilt the bed to the comfort seating position by pressing the Anti-Trende-

lenburg button

Restoring the straight lying surface

To return to a horizontal lying position, move the lying surface -- D and the back rest Section in any preferred order to their lowest position.

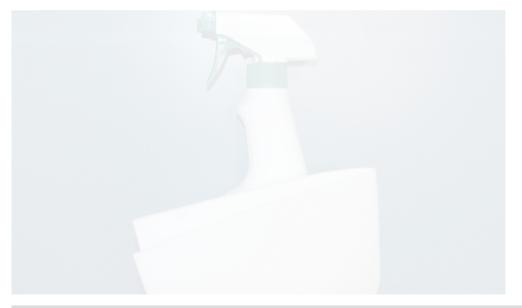
Contents



This section contains details on the **cleaning and disinfection** of the bed.

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Cleaning	49
Wipe and spray disinfection	49



Contents



Help

Völker care bed models 5380, 5380 K built after April 2005 - Instructions for use G67

Cleaning and disinfection 1/2

In order to maintain consistent functioning, the healthcare bed should be cleaned, disinfected and tested as soon as possible time following each use, so that it can be reused immediately without risk. Incorrect cleaning/disinfection of the bed can cause the bed to malfunction.

Cleaning

Depending on the degree of soiling, we recommend cleaning the bed with a damp cloth or similar.

Wipe and spray disinfection

For wipe and spray disinfection, the disinfecting agents featured in the VAH (Verbund für angewandte Hygiene e.V.) list dated 01.01.2008 can be used in their specified concentrations. They must be applied at the dilution ratio specified by the relevant manufacturer's instructions for use. The list can be obtained under ISBN Number 978-3-88681-089-5.

NOTE Solvents are not permitted. Scouring agents, abrasive sponges or other blunting agents must not be used. Organic solvents such as halogenated / aromatised hydrocarbons and ketones must not be used.

Depending on the degree of soiling, we recommend cleaning the bed with a damp cloth or similar.

The following instructions must be noted when using cleaning and disinfecting agents:

- The working solutions should generally be freshly prepared.
- The concentrations used should be neither higher nor lower than those given in the list. The so-called "shot" method should not be used under any circumstances. Under no circumstances should someone using a disinfectant follow their own judgement to add a detergent such as a soap or detergent substance (leads to soap failure).

- There is a risk of fire or explosion from alcoholic spray disinfectants when these are used over large areas.
- They must not contain any corrosive or irritant components.
- They must not contain any substances that change the surface structure or gripping properties of the materials.
- Cleaning methods should not remove lubricants.
- The pH value of the water must be no higher or lower than 6 8.
- Water should not exceed a total water hardness of 0.9 mmol/l (up to 5 deg d). (Desalinated water should not be used).

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Cleaning and disinfection 2/2

Chloride	< 100 ppm
Silicates as SiO_2	< 15 ppm
Iron	< 0.05 ppm
Manganese	< 0.01 ppm
Copper	< 0.05 ppm

The specifications in the VAH list, as well as the specifications we have issued do not absolve the user of the obligation to carry out his or her own checks and investigations, since the ratios (e.g. water hardness) can vary depending on the geographical location. It is therefore impossible to offer legally binding assurance of certain properties.

If unsuitable washing and disinfecting agents are used, if the mixing ratio is incorrect or if there is inadequate care of the beds, damage can occur to the surface coating for which Völker GmbH is not liable.



WARNING

"Risk of electric shock / fire and functional failure"

The bed must always be disconnected from the power supply during cleaning and disinfection.

The plug and the socket of the hand control are only protected against spray when the control is stowed and the appropriate cover is in place.

Spray lances and automatic washing systems

Cleaning and disinfection using spray lances from high-pressure cleaning equipment and in automatic bed washing systems is **not** permissible.

Maintenance

The **Maintenance** section contains information on how to carry out maintenance work.

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Safety notes	52
Maintenance schedule	53



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Help

Völker care bed models 5380, 5380 K built after April 2005 - Instructions for use G67

Maintenance | Staff training, safety notes

Staff training

Every person involved with maintenance or servicing must at least have read

- · the safety notes and
- the service manual

and be trained in accordance with MPBetreibV §§ 4 and 6. To avoid errors and to ensure the fault-free operation of our healthcare beds, these documents must always be available to service personnel.

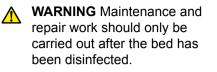
Before commencing maintenance work, the service manual and the instructions for use must be read in full by the person responsible for carrying out the servicina.

Safetv notes

During maintenance and technical checks, the following specifications must be strictly observed:

- The room's electrical installations must satisfy the requirements of the current state of the technological art and the healthcare bed must be used accordingly.
- · The brake must be applied (bed is parked).
- The healthcare beds are not protected against explosion and must therefore only be maintained in an environment free from flammable substances and materials.

WARNING Before carrying out any maintenance work, always disconnect the mains plug and disconnect the bed from the battery pack.



WARNING After maintenance (repair) work is complete, always check that the bed is functioning correctly. It must be checked that the bed can be correctly without risk to the occupant or care personnel.



Maintenance | Maintenance schedule

The healthcare beds require little maintenance. All movable parts for the height adjustment mechanism, the lying surface motor systems and the side rails are provided with long-lasting lubricant at the factory. It is recommended that the healthcare beds are subjected to a regular, or at least once a year, technical check 54 (incl. visual inspection and functional check) as described in the checklist 78 and any damage uncovered as a result, such as signs of wear and tear, loose screws or breaks/fractures, be eliminated immediately.

After every lengthy period of non-use, a technical check

54 must be carried out.

Period	Work to be carried out
Annually and after lengthy periods of non-use	Technical check 🕮 54
Every 2 years *	Replace the 9V block battery (see below)
As required	Lubricate mechanical parts Replace the battery pack or other wear parts (see service manual)

Replace the battery

To replace the 9-V block battery, remove the two screws from the battery housing on the double drive.

Use only brand-name batteries, and dispose of spent batteries in an environmentally friendly way.



* as well as after every emergency lowering of the back section, if the bed does not have a battery pack (option).

Contents

Technical check

The section entitled **Technical check** contains all the information needed to carry out the technical check in accordance with MPBetreibV, BGVA3, UVV on healthcare beds and measurement as per VDE 0751-1. Other (e.g. country-specific) specifications have not been included here. This does not absolve the operator from the obligation to observe any such specifications.

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Technical check 1/3

1. Visual inspection

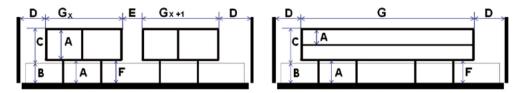
Check the frame parts for plastic deformations and / or wear and tear. These include the lower frame, the lifting mechanism, all parts of the lying surface (back, seat, upper leg and lower leg sections), trapeze bar, trapeze bar holder and castors.

2. Functional check of the side rails

Check that the locking mechanism for the side rails is working correctly and that there are no visible deformations or signs of wear and tear on the side rails.

Check that the prescribe distances are maintained, even when the side rails are placed under load. All measurements of side rail distances must be carried out in the flat lying surface position.

The measurement of A must be performed using a cone as defined in IEC 60601-2-38. The force used for measurement A must be at least 50 N.



Letter	Description	Dimension
A	The greatest distance between the elements within the scope of the SIDE RAIL in a raised / engaged position or the area formed by the SIDE RAILS and fixed parts of the BED.	≤ 120 mm
В	Thickness of the mattress for CORRECT USE	defined by the manufacturer
С	Height of the upper edge of the SIDE RAILS over the mattress (see "B") without compression	≥220 mm
D	Distance between the HEAD or FOOT SECTION and the SIDE RAIL	≤60 mm or ≥235 mm
E	Distance between the separated SIDE RAIL with the LYING SURFACE in flat position	≤60 mm or ≥235 mm
F	Distance of all accessible openings between the SIDE RAILS and the LYING SURFACE	if D or if D or E E≥235 mm ≥60 mm then F ≤60 then F mm ≤120 mm
G	Total length of the SIDE RAIL or sum of the length of the divided SIDE RAILS on one side of the BED	Σ Gx ≥⊡1/2 the length of the LYING SURFACE

-		
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		nts

Technical check 2/3

3. Functional check of the brakes

Check that the brake is functioning correctly (catch, free running).

4. Functional check of the motors

Travel through the full adjustment range of each motor. Look out for any unusual noises, watching the speed, ease of running etc., and check that the selected function travels in the correct direction. Particularly ensure that the motor switches off automatically when it reaches its terminal position* (terminal position switch).

Please note that the terminal position can vary from bed model to bed model. Please consult the technical specifications for this, or if in doubt, contact our service department.

5. Mains connection cable

Check

- the mains connection cable, incl. cable guides,
- the strain relief, including kink protection sleeve,
- the mains connection plug

for damage.

6. Cabling

Check the cable guides and that the plug connectors are correctly seated and do not exhibit any damage.

Check the cables for damage.

8. Housing

Check all housings for damage. All screws must be firmly tightened and seals must not exhibit any visible damage.

9. Mechanical check

Check the function of the pneumatic spring by manually moving the lower leg section to the individual positions.

9. Changing the battery

Replace the 9V block battery at 2-yearly intervals. Only use brand-name batteries and dispose of the old ones in an environmentally responsible manner (Replacing the batteries 🛄 53).

Contents

Technical check 3/3

10. Measurement as per VDE 0751-1

The bed must be checked electrically in accordance with VDE 0751-1. The equivalent unit current leakage must be measured.

On beds with a potential cable connection (see sketch below), the impedance of the potential equalisation within the bed must <u>also</u> be measured.

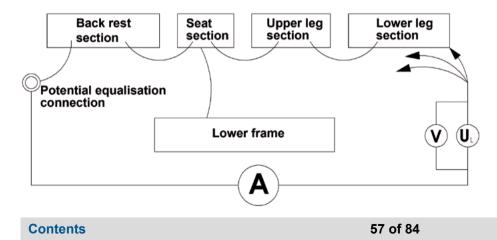
11. Grab handle

Check whether the plastic and holding frame of the grab handle exhibit any damage and that the fixing rods on the trapeze bar are intact.

The handle of the trapeze bar, including the fastening strap, must be replaced every five years.

12. Other accessories

Other accessories must always be checked in accordance with the manufacturer's instructions.

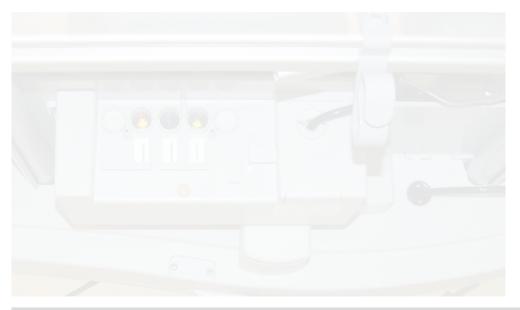


Troubleshooting

The section entitled **Troubleshooting** contains a table of faults for users, together with information on the service points.

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Help

Völker care bed models 5380, 5380 K built after April 2005 - Instructions for use G67

Troubleshooting | Table of faults 1/2

The following table contains information on possible functional problems that the users can resolve themselves.

Faults that can only be eliminated by technical engineers are described in the service manual.

Anyone responsible for carrying out maintenance and repair work must at least have read the safety notes and the service manual and be qualified in accordance with MPBetreibV §§ 4 and 6.

NOTE Before carrying out any troubleshooting, ensure that the battery pack (option) is charged (the yellow LED flashes during the charging process at intervals commensurate with the charge level) and that the bed is connected to the mains supply (the mains plug is in a live socket).

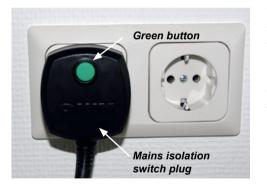


WARNING Before carrying out any repair work, ensure that the bed has been disconnected from the power supply and the battery pack has been disconnected if present.

Troubleshooting | Table of faults 2/2

Fault	Possible cause	Troubleshooting
The bed cannot be adjusted	 The keypad block is engaged. 	(1) Deactivate the key lock-out 💷 37.
electrically.	 The mains plug is not plugged in or the socket is not live. 	(2) Connect the plug or check the socket.
	 The battery pack (options) is not connected or is flat. 	(3) Press the green button on the mains isola- tion switch ¹ while simultaneously actuating any function on the hand control.
	The hand control is faulty.	(4) Replace the hand control.

¹ Green button on the mains isolation switch:



The mains isolation switch ensures that when no electrical function is being actuated, there is no mains voltage to the bed. (Exception: while the battery pack (option) is being charged, there is mains voltage to the bed. This is indicated by a flashing LED on the battery pack).



Troubleshooting | Service points

If necessary, please seek assistance from the relevant contact at your nearest Völker sales organisation. You will receive all the information you need for

comprehensive service promptly.



Appendix

The **Appendix** section contains the technical specifications and classifications, information on the service life and disposal of the equipment and links to the manufacturers' declarations and forms found in the Appendix.

Konformitätserklärung Anhang VII EU-Richtlinie 93/42/EWG

Der Unterzeichnend Völker GmbH Wullener Feld 79 58454 Witten

mit einer Fertigungsstätte unter der Adresse Völker GmbH Ahornstraße 4 09661 Halnichen

bestäligt, dass die nachfolgend bezeichneten Produkte in der von uns in Verkehr gebrachten Ausführung die grundlegenden Anfordeningen des Anhangs I der EU-Richtlinie 93/42/EWG erfüllen. Es wurden die folgenden Normen angewendet :

DIN EN 60601-1:1990+A1:1993+A2:1995, DIN EN 60601-1-2:2007-12, DIN EN 60601-2-52:2010-12 (Anwendungen der relevanten Teile),

Damit sind die Anforderungen des Medizinproduktegesetzes zur Anbringung einer CE Kennzeichnung erfüllt. Declaration of conformit Appendix VII EU Directive 93/42/EEC

The signatory Völker GmbH Wullener Feld 79 58454 Witten/Germany

with a manufacturing side at: Völker GmbH Ahornstraße 4 09661 Hainichen/Germany

confirms that the products described below and in the form distributed by ourselves meet the basic requirements of Appendix I of EU Directive 93/42/EEC. The following standards are applied :

DIN EN 60601-1:1990+A1:1993+A2:1995, DIN EN 60601-1-2:2007-12, DIN EN 60601-2-52: 2010-12 (applicable parts only),

The requirements of the medical products law pertaining to the display of a CE seal of approval are thereby fulfilled.

his declaration of conformity becomes

Déclaration de conformité Annexe VII Directive EU 93/42/CEE

La soussignee Völker GmbH Wullener Feld 79 58454 Witten/Allemagne

avec un site de production à: Völker GmbH Ahornstraße 4 09661 Hainichen/Allemagne

confirme que les produits spécifies ci-Jessous cont conformes, dans le modèle nis en circulation, aux exigences ondamentales de L'annexe L de la Jirective européenne 93/42/CEE. Les standards suivants sont appliqués ;

DIN EN 60601-1:1990+A1:1993+A2:1995, DIN EN 60601-1-2:2007-12, DIN EN 60601-2-52 : 2010-12 en partie applicable),

es exigences de la loi sur les produits nédicaux concernant leport de la narque CE sont ainsi satisfaites.

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Appendix | Symbols used



Warning symbols

Information marked with this symbol must always be read and strictly observed!



Warning about the risk of crushing and entrapment!



Note the information in the instructions for use!



Safe working load 170 kg

- Max. permissible weight of the occupant 140 kg (approx. 30 kg for the mattress, trapeze bar and accessories)
 - --- Direct current
 - $\sim\,$ Alternating current



Protection class II device, protection-insulated

*

Type B device as per DIN EN 60601-1

CE The product satisfies the fundamental requirements of Appendix 1 of EU Directive 93/42/EEC.



The product must be disposed of in accordance with EU Directive 2002/96 pertaining to old electrical and electronic equipment.



Appendix | Technical data (standard design)

The details marked below with * are dependent on the length, width or model of the bed. The specified values relate to model 5380 MA.

External dimensions (W x L) for lying surface 90 x 200 cm * for lying surface 90 x 220 cm *	98 x 206 cm 98 x 226 cm
Height of the lower edge (min./max.) *	approx. 7 cm / 58 cm
Height of the upper edge (min./max.) *	approx. 58 cm / 109 cm
Height of the upper edge of the lying surface *	approx. 23 cm - 74 cm
Lying surface (4-part) *	90 x 200/220 cm
Volumetric weight of the mattress material	40 - 50 kg/m³
Dead weight *	136 kg
Safe working load for the bed	170 kg As a result of the weight (ap- prox. 30 kg) of the mattress, trapeze bar and other acces- sories, the maximum permis- sible weight of the occupant is 140 kg. If another mattress is used or other accessories, this value must be recalculated!
Safe working load for the trapeze bar holder	75 kg

Rolling castors	2 pcs. head end Ø 80 mm, 4 pcs. foot end Ø 35 mm
Castor load	100 kg (static)
Mains voltage Rated power	AC 220 - 240 V, 100 - 120 V
Rated frequency	173 VA 50 / 60 Hz
Primary fuse	2.0 A
Hand control fuse	Type: Polyswitch RXE 025
Lying surface motor fuse	Type: Polyswitch, solid, 2.5 A
Lifting motor fuse	Type: Polyswitch, solid, 3.75 A per motor
Battery	Type: 9 V block battery (alkali manganese, com- mercially available)
Battery pack (option)	Type: 4 x 6 V block battery (lead gel) 1.2 Ah
Operating temperature range	+ 10 °C to + 40 °C
Transport / storage tempera- ture range	- 20 °C to + 60 °C
Air humidity	30 % to 75 % rel.
Atmosphere range	700 hPa to 1,060 hPa

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	U	ш	er	nts

Appendix | Classification

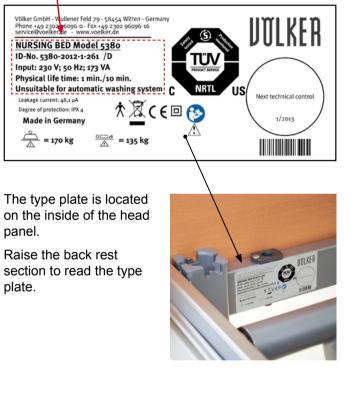
Protection against electric shock	Protection class II or device with internal electrical current source
Protection type by housing as per EN 60259	IPX4 not suitable for cleaning in automatic washing systems
Degree of protection of the applied part against electric shock as per DIN EN 60601-1	Туре В
Degree of protection against explosive sub- stances and mixtures	The bed is not protected against explosion and should not be used in an environ- ment in which flammable anaesthetics or flammable cleaning agents are present (see brochure from accident prevention organisation ZH 1/200)
MPG grouping	Class I

	Int. 1 min. / 10 min. On-time max. 1 min. Off-time 10 min.
Technical check	1x yearly

Appendix | Type plate 1/2

Type specifications

Contents

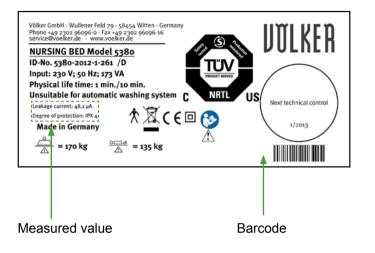


Type specifications	Explanation	
1st line	Model designation. In the example: NURSING BED Model 5380	
2nd line	ID No. (made up as follows): 5380 = Model -2012 = Year of construction -1 = Production week (calendar week) -261 = Consecutive number	
	D = Mains plug version (e.g. D = Germany)	
3rd line	Input: mains voltage; mains frequency; consumed power	
4th line	Physical life time: Max. uninterrupted on-time of electric motor adjustment. In the example: 1 min./10 min. In other words, the bed may be oper- ated with the electric motors for max. 1 min uninterrupted within a 10-minute period (protection against overheating).	
5th line	Safe working load (accessories, mat- tress and weight of occupant).	
6th line	Compatibility with automatic washing systems. In the example: Unsuitable for automatic washing system.	

Völker care bed models 5380, 5380 K built after April 2005 - Instructions for use G67

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Appendix | Type plate 2/2



Measured values	Explanation
1st line	Equivalent unit current leakage in µA
2nd line	Degree of protection. In the example: IPX 4

The specified initial measured values were measured in accordance with VDE 0751-1.

The barcode (code 39) contains the numeric ID No. (10 digits).

Appendix | Service life / disposal

The care bed's expected service life is approx. 10 years. To ensure environmentally responsible disposal after decommissioning, please contact your responsible area sales manager.

Appendix | Manufacturer's declarations, forms, electronic instructions for use

Manufacturer's declarations

- Conformity declaration
- Table 201 Guidelines and manufacturer's declaration – Electromagnetic compatibility (6.8.3.201 a) 3))
- Guidelines and manufacturer's declaration – Electromagnetic compatibility (6.8.3.201 a) 6))
- Table 204 Guidelines and manufacturer's declaration – Electromagnetic compatibility for all devices and systems that are <u>not</u> life-sustaining (6.8.3.201 b))
- Table 206 Recommended protective distance between portable and mobile HF tele.
 communications equipment and the 5380 or 5380 K – for devices and systems that are not life-sustaining (6.8.3.201 b))

Forms

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- Technical check as per MPBetreibV, BGVA 3, UVV on hospital and healthcare beds, incl. measurement as per VDE 0751-1
 - Spare parts order form

Electronic instructions for use

• Requirement for the use of the electronic instructions for use

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Appendix

UULKER

Konformitätserklärung / Declaration of Conformity / Déclaration de conformité	ation of Conformity / Déclaratio	n de conformité
Konformitätserklärung	Declaration of conformity	Déclaration de conformité
Anhang VII	Appendix VII	Annexe VII
EU-Richtlinie 83/42/EWG	EU Directive 93/42/EEC	Directive EU 93/42/CEE
Der Unterzeichnende	The signatory	La soussignée
Völker GmbH	Violker GmbH	Völker GmbH
Wultener Feld 79	Wullener Feld 79	Wultener Feld 79
58454 Writen	58454 Witten/Germany	58454 Witten/Allemagne
mit einer Fertigungsstätte unter der Adresse:	with a manufacturing side at:	avec un site de production à:
Vöker GmbH	V0lker GmbH	Vûker GmbH
Ahtornstraße 4	Ahomstraße 4	Ahomstrabe 4
09651 Hainichen	09061 Haimchen/Germany	09661 Hainichen/Allemagne
bestätigt, dass die nachlotgend bezeichneten Produkte in der von uns in Verkehr. gebrachten Austführung die grundlegenden Anhorderungen des Anhangs I der EU- frichtline 93/42/EWG erfüllen. Es wurden die folgenden Normen angewendet : DIN EN 60601-4:1980-441:1983-42:1985, DIN EN 60601-4:2-2007-41	confirms that the products described below and in the form distributed by ourselves meet the basic requirements of Appendix I of EU Directive 93/32/EEC. The following standards are applied : DIN EN 66061-11:1990-411:1993-422:1995, DIN EN 66061-12:2007-12, DIN EN 66067-22:070-12, 2007-12, DIN EN 66067-22:070-12, 2007-12, 2007-12, DIN EN 66067-22:070-12, 2007-12,	confirme que les produits spécifies ci- dessous sont conformes, dans le modi mis en circulation, aux exigences fondamentales de L'annexe L de la directive européennes 30/42/CEE. Les standards suivents sont appliqués DIN EN R0601-1:1930-4/2:193

es, dans le modèle

+A1:1993+A2:1995, s sont appliqués :

DIN EN 60601-2-52 : 2010-12

parts only),

en partie applicable),

Les exigences de la loi sur les produits

The requirements of the medical products law pertaining to the display of a CE seal of approval are thereby fulfilled.

médicaux concernant leport de la marque CE sont ainsi satisfaites. produits, non autorisée par le fabricant.

invaledée en cas de modification des

Cette déclaration de conformité est

Moděle/Référence : Lits médicalisés 5380, 5380 K, 2080,

3080, 3080 K.

Désignation des produits

Description of products Type/Article No.: Nursing beds 5380, 5380 K, 2080, 3080,

invalid if the products are altered without the agreement of the manufacturer. This declaration of conformity becomes

Bei einer nicht mit dem Hersteller abgestimmten Änderung des Produktes verliert diese Konformitätserklärung ihre

Gültigkeit

3

Nitten, 20.02.2012

conception du produit est conforme à la classe 1 (annexe IX) Directive 93/42/CEE du 05.09.2007.

Directive 93/42/CEE du 14.06.1993 sur

concering medical products (Appendix I, Basic requirements). The design and construction of this product conforms to Class I (Appendix IX) Directive 93/42/EEC

Richtlinie 93/42/EWG vom 14.06.1993 über Medizinprodukte (Anhang I "Grundlegende

EG-Richtlinien

3080 K.

of 05.09.2007

Directive 93/42/EEC of 14.06.1993

EU Directives :

3080 K.

Bezeichnung der Produkte : Pflegebetten 5380, 5380 K, 2080, 3080,

Directives européennes :

els produits médicaux (annexe l « Exigences fondamentales »). La

Geschäftsführer //Managing Director / Gérant Mitchel Tidman

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Damit sind die Anforderungen des Medizinproduktegesetzes zur Anbringung

einer CE Kennzeichnung erfüllt.

(Anwendungen der relevanten Teile),

DIN EN 60601-2-52:2010-12

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Anforderungen*).

Die Produkte sind Produkte der Klasse I gemäß Anhang IX der Richtlinie 93/42/EWG vom 05.09.2007.

Völker care bed models 5380, 5380 K built after April 2005 - Instructions for use G67

Table 201 - Guidelines and manufacturer's declaration - Electromagnetic compatibility

(6.8.3.201 a) 3))

The 5380 and 5380 K is intended for use in the electromagnetic environment as described below. The customer or user of the bed should ensure that it is used in such an environment.

Emissions measurements	Conformities	Electromagnetic environment - guideline
HF emissions	Class A	The 5380 and 5380 K is suitable for use in all institutions,
IEC 61000-3-2		including residential areas and such that are directly connected to a public mains supply network that also supplies buildings
Fluctuations in voltage / flicker	Satisfied	intended for residential purposes.
IEC 61000-3-3		
RF emissions	Satisfied	The 5380 and 5380 K is not suitable for connection to other
CISPR 14 – 1		equipment.

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Contents

Guidelines and manufacturer's declaration - Electromagnetic compatibility (6.8.3.201 a) 6))				
The 5380 and 5380 K is intended for use in the electromagnetic environment as described below. The customer or user of the bed should ensure that it is used in such an environment.				
Compatibility check	IEC 60601 Testing level	Conformity level	Electromagnetic environment - guideline	
Discharge of static electricity (ESD)	± 6 kV contact discharge ± 8 kV air discharge	± 6 kV contact discharge ± 8 kV air discharge	The ground should be made of wood or concrete and be laid with ceramic tiles.	
IEC 61000-4-2			If the ground is covered with synthetic material, the relative air humidity must be at least 30%.	
Rapid transient electrical disturbance / bursts	± 2 kV for voltage supply	± 2 kV for voltage supply Not suitable!	The quality of the voltage supply should be commensurate with a typical com-	
IEC 61000-4-4	± 1 kV for input and output cables		mercial or hospital environment.	
Surge voltages	± 1 kV	± 1 kV series mode voltage	The quality of the voltage supply should	
IEC 61000-4-5	series mode voltage		be commensurate with a typical com-	
	± 2 kV common-mode voltage	Not suitable!	mercial or hospital environment.	

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[©] Continued on next page.

Compatibility check	IEC 60601 Testing level	Conformity level	Electromagnetic environment - guideline
Voltage drops, short interruptions and voltage fluctuations in the mains voltage supply IEC 61000-4-11	< 5 % U_{τ} (>95 % voltage peaks in U_{τ}) for 0.5 cycles 40 % U_{τ} (60 % dip in U_{τ}) for 5 cycles 70 % U_{τ} (30 % dip in U_{τ}) for 25 cycles < 5 % U_{τ} (>95 % dip in U_{τ}) for 5 sec	< 5 % U _T (>95 % voltage peaks in U _T) for 0.5 cycles 40 % U _T (60 % dip in U _T) for 5 cycles 70 % U _T (30 % dip in UT) for 25 cycles < 5 % U _T (>95 % dip in U _T) for 5 sec	The quality of the voltage supply should be commensurate with a typical com- mercial or hospital environment. If the user requires continued function from the 5380 or 5380 K when inter- ruptions in the power supply occur, it is recommended that the 5380 or 5380 K be powered via an uninterruptible power supply or a battery.
Magnetic field at supply frequency (50/60 Hz) IEC 61000-4-8	3 A/m	3 A/m	Magnetic fields at mains frequency should correspond to the typical values present in commercial and hospital environments.
Remark 1: U_{T} is the main	s AC voltage before the test	ting level is applied.	

Table 204 – Guidelines and manufacturer's declaration – Electromagnetic compatibilityfor all devices and systems that are <u>not</u> life-sustaining (6.8.3.201 b))						
The 5380 and 5380 K is intended for use in the electromagnetic environment as described below. The customer or user of the bed should ensure that it is used in such an environment.						
Compatibility check						
			Portable and mobile radio equipment should not be used any closer to the 5380 or 5380 K, or their cables, than the recommended protective distance which is calculated based on the equa- tion applicable for the transmission frequency.			
			Recommended protective distance			
Conducted HF disturbances	3 Vrms	3 V	d = 1.17 √P			
IEC 61000-4-6	150 kHz to 80 MHz		<i>d</i> = 1.17 √P 80 MHz to 800 MHz			
			d = 2.33 √P 800 MHz to 2.5 GHz			

© Continued on next page.

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Compatibility check	IEC 60601 Testing level	Conformity level	Electromagnetic environment - guideline	
Radiated HF disturbances	3 V/m 80 MHz to 2.5 GHz	3 V/m	Where <i>P</i> is the rated output of the transmitter Watts (W) as specified by the transmitter mar facturer and <i>d</i> is the recommended protective distance in metres (m).	
			The field strength of stationary radio transmit- ters should be less than the conformity level ^b a all frequencies, as verified by an on-site test ^a .	
			Disturbance is possible in the environment of equipment that bears the following label.	

Remark 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Remark 2: These guidelines may not be applicable in all cases. The spread of electromagnetic parameters is influenced by the absorption and reflection of buildings, objects and people.

^a The field strength of stationary transmitters, such as base stations of cordless telephones and mobile land radio, amateur radio stations, AM and FM radio and TV stations cannot be quantified in theory in advance accurately. To determine the electromagnetic environment in relation to a stationary transmitter, a study of the site should be considered. If the measured field strength at the site where the 5380 or 5380 K is used exceeds the conformity levels stated above, the 5380 or 5380 K should be observed to ensure that it functions correctly. If unusual features are observed, additional measures may be required, such as modified alignment or a different location for the 5380 or 5380 K.

^b In the frequency range from 150 kHz to 80 MHz, the field strength should be less than 3 V/m.

C	onto	ents	
	JIIL	51112	

 Table 206 - Recommended protective distance between portable and mobile HF telecommunications equipment and the 5380 or 5380 K – for devices and systems that are not life-sustaining (6.8.3.201 b))

The 5380 or 5380 K is intended for operation in an electromagnetic environment in which HF disturbances are controlled. The customer or user of the 5380 or 5380 K can help to avoid electromagnetic disturbances by respecting the minimum distance between portable and mobile HF telecommunications equipment (transmitters) and the 5380 or 5380 K. The recommended minimum distance d is dependent on the maximum power output of the communication device (see below).

Use in environments specified in which the radiated RF disturbances are controlled. The buyer or user of the 5380 or 5380 K can help avoid electromagnetic interference by respecting the minimum distance between portable and mobile RF communications equipment and the 5380 or 5380 K. The recommended minimum distance is dependent on the maximum power output of the communication device.

-					
	Protective distance according to the frequency of the transmitter -				
	m				
Rate output of the transmitter	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz		
W	d = 1.17√P	d = 1.17 √P	d = 2.33 √P		
0.01	0.12	0.12	0.23		
0.1	0.37	0.37	0.74		
1	1.17	1.17	2.33		
10	3.69	3.69	7.38		
100	11.67	11.67	23.33		

^C Continued on next page.

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For transmitters whose maximum rated output is not specified in the table above, the recommended protective distance *d* in metres (m) can be calculated using the equation in the column that features *P* as the maximum power output of the transmitter in Watts (W) as defined by the transmitter manufacturer.

Remark 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Remark 2: These guidelines may not be applicable in all cases. The spread of electromagnetic parameters is influenced by the absorption and reflection of buildings, objects and people.



Technical check of Völker hospital and healthcare beds in accordance to German standards and safety regulations incl. measurements required

Contents

German standards and	German standards and safety regulations incl. measurements required	s requ	irea		
Project, address, customer no .:					
Type of bed, product, location of the bed:					
Bed Identification (e.g. facilities own identification or Völker ID-no.);					
Date of check:	Name of technician:				
Kind of check	Component to be checked	Anually	Accepted	Not accepted	Not appicable
Visual inspection	Inscription on device readable				
	Instructions for use available				
	Base frame	å			
	Lying surface, wing and spring elements (if existing)	å.			
	Trapeze bar adapter, infusion bar adapter	å			
	Power supply cable, plug or charger, charging connection	å			
	Strian relieve, bend protection, cable hook	B*/S			
	Comrecting cable, prug-in contacts, binto prugs Dosification (enacion 1 mm) and cancer cabiling (only Me. a. Vie. a. Vie. hert)	с/ а В*/S*			
	Housing (motor, control electronics)				
	Hand control (housing, cable)	å			
	Nurse keypad, nurse hand control (housing, cable)	å			
	Trapeze bar, assist rail spacer (side rail centre), additional accessories	B*/F*			
	Transverse motors and cover, head and foot ends	*B			
	Castors	*B			
	Wall buffer wheel (if existing)	*B			
	Side rails including telescopic section, if applicable	B*			
	HilLow-elevation: check screw locking (only for 5380)	°,			
Functional inspection of side rails including telescopic section, if applicable	Locking devices	*			
	Deformation	*			
	ADRASONS	~			
Functional inspection of drives with hand control and nurse keypadinurse hand control	Back sector, upper lag section, tower lag sector, tower lag sector	×*/M*			
	Angle limitation (back section to upper leg section $>90^\circ$)	*×			
	Adjustment lower leg section (rastomat/hydrolift/support plate)	×			
		×			
	Brake (electrical or mechanical) - brake applied	*×			
	- free running				
	(only for hospital beds and - steering position S 280/S 310/S 380/S 282/S 382 (Vis-a-Vis))				
	Mechanical release (only for electrical brakes of hospital beds)	*×			
Functional inspection replacement	9 V battery (only for beds with Oki-/Ilcomat except S 960-1W/S 961) Replaced (yes/no)	A2*			
	Trapeze bar handle and belt (if existing) Replaced (yes/no)	*A			
Functional inspection	Bed extension (if existing)	*a			
miscellaneous	Bedding storage/bedding drawer (if existing)	B*			
Comment					
Leakage current by means of alterna- tive measurement ≤ 500 µA, in accordance to DIN EN 62353		Υr			
Potential equalization impedance C 0.2 Ohm, in accordance to DIN EN 62353 (if existing)		a			
Total result of the inspection:					
Signature of technician:	Next regular inspection:	nspection:			

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every 3 years for H with RF in hospital mode, every 2 years for H with RF for ie F: Check for deformation M*: Check function of motions and end switches, (RF) in nursing home mode, years **B***: Check for dama, A^{**}. To be replaced every 5 years for handles (H) and for H with roll function cleaning in automatic bed washing systems. A^{2**}. To be replaced every two does the motor switch off when reaching the end position? S^{**}: Check for cc JULKER .82 96 0 96

Eax

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Appendix

Rev. 2 (03.2018)

Spare part order

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Address:				Völker GmbH Service Wullener Feld 79 58454 Witten/Gerr	many UULKER
Name of the ordering party:				Tel.: +49 2302 96096 Fax: +49 2302 96096	
Street address:				E-Mail: service@voel	
Zip code/city/country:				Shipping address, if	f different from the billing address
Telephone number:			Stamp	Address:	
Customer number:					
Customer order number:				Attention of:	
Purchase order date:				Street address:	
Signature: (Please, to fill in the form use block letters) Please fill out all the information careful	v and complete the form in its	entirety, otherwise we may have problem	ems in delivering and processing this order.	Zip code/city/country:	
MODEL SERIAL NO./ YEAR		SPARE PART DESCRIPTION	anna an sann ann â mus bi ganganu â può grador		NUMBER QUANTITY

MODEL (Bed-type)	SERIAL NO./ YEAR OF MANUFACTURE (Identifaction label inside of the bed-head)	SPARE PART DESCRIPTION	ITEM NUMBER	QUANTITY

Contents

Requirement for using the electronic instructions for use

In order to open the electronic version of these operating instructions (PDF file) found on the CD-ROM, you must have Adobe Reader 7.0.5 or later (or the corresponding Adobe Acrobat version) installed on your PC.

Adobe Reader is available for nearly all operating systems. The newest version can be obtained free of charge by download from www.adobe.de/products/acrobat/read-step2.html



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Windows is a registered trademark of the Microsoft Corporation.



Notes:

Völker care bed models 5380, 5380 K built after April 2005 – Instructions for use G67

DŨLKER

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