

OPERATING MANUAL

Original operating manual



AVERO Motion

Unique seat- and reclining tub

AVERO Motion & AVERO Motion E

Version 2.14 / English
2025-11-03



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1 Imprint

1.1 Acknowledgement

Dear customer, we would like to express our sincere thanks for the trust you have placed in us by purchasing this BEKA Hospitec GmbH product. Our products are manufactured and tested according to stringent quality criteria.

1.2 Manufacturer's address

	BEKA Hospitec GmbH Am Rübenmorgen 3 35582 Wetzlar Phone: +49(0)641-9 22 20-0 Fax: +49(0)641-9 22-20-20 info@beka-hospitec.de
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	BEKA Hospitec GmbH is certified according to DIN EN ISO 13485 by TÜV SÜD Product Service GmbH. Therefore, the development, manufacturing, quality assurance and service of our entire product range is subject to high quality standards.
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CAUTION 	Before each use, check that all visible parts are undamaged. If parts are damaged, the product must NOT be used! Before each use of the device and its accessories, the user must satisfy himself of their functional safety and proper condition (visual inspection, function).
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2 Introduction

2.1 Preface

A correct use of the device is imperatively in order to ensure its proper and safe functioning. Please read the provided operating manual carefully and observe in particular the therein contained safety instructions.

The maintenance, inspection, assembly and installation as well as well as further technical interventions on the product must only be executed by BEKA Hospitec either by specialised companies authorised to this effect by BEKA Hospitec. The operation of the product as well as technical interventions on the product must only be carried out by specially trained personnel.

AVERO Motion is a medical device in accordance with DIN EN 60601-1 / IEC 60601-1, DIN EN 60601-1-2 / IEC 60601-1-2, and the MDR Medical Device Regulation (2017/745) / Medical Device Regulation (EU) 2017/745. The product is intended for bathing and caring for dependent persons and patients in hospitals and care facilities.

If a serious incident occurs in connection with the use of the product or its accessories involving a patient or user, please contact your distributor or the manufacturer. Within the European Union, you are required to report serious incidents to the competent authority of the respective Member State. Other regulations may apply in regions outside the EU.

2.2 Liability and warranty

- On the basis of the information contained in this manual, the publisher accepts no liability for damages resulting from improper, incorrect or inappropriate use of the product. The product must only be operated by persons, who are familiar with the manual and the product as well as the national regulations, laws and prescriptions related to work, safety and accident prevention.
- The manufacturer of the product is only responsible for the safety and the reliability of the product, if regular functional tests and checks are conducted. Operate the product only with original accessories, otherwise the manufacturer's liability will expire.
- In case of technical interventions, such as extensions and fittings to our products, which are not carried out by BEKA Hospitec either by a specialist company authorised by BEKA Hospitec, all warranty rights on the modifications as well as on the device or on the device function, which are related to the modification, shall expire.
- For damages resulting from the use of spare parts and accessories, which are not authorized by the manufacturer, any further liability of the manufacturer shall be excluded.
- Please note that there might be minor differences between the images and explanations contained in this manual and the actually supplied device. Subject to technical modifications and error.
- The product is equipped with "B"-Type applied parts. All exposed, touchable, conductive parts are thereby considered as applied part.

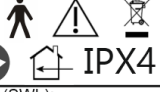
3 The operating manual

3.1 Validity

This operating manual contains information, which is required for the operation and use of the product. In addition to the description of the equipment, the operating manual also includes a number of abstractions and exemplary illustrations. The equipment of the product therefore may differ in part from the descriptions and illustrations. Furthermore, please observe also the manuals with regard to the cleaning and the disinfection as well as the assembly and the disassembly of individual components of the product.

Please read the operating manual and the safety instructions before starting to use the product. Keep the operating manual near the device for future reference.

3.2 Type plate

   BEKA Hospitec GmbH Am Rübenmorgen 3 D- 35582 Wetzlar Tel: +49 (0) 641 / 92 22 0 - 0 Fax: +49 (0) 641 / 92 22 0 - 20 www.beka-hospitec.de			
Typ: AVERO Motion			
REF 910150550			
SN		2025-41	
			
2082. 41. 25		2025-41	
Voltage Input.: 230 V~ 50 Hz		Max Load (SWL): 350 kg / 772 lbs	
Power Consumption: 840 VA		Max Patient weight.: 220 kg / 485 lbs	
short- term operation		2 min ON 18 min OFF	

This image shows the type plate. The type plate is situated on the side of the operating panel. The serial number (SN) shown here, 0019.05.16, is merely an example. In case of queries, please mention the serial number printed on the type plate of your device.

Note: Because of legal regulations, it might be required that the article number and the serial number should be computer-readable as well and therefore they might be printed on the type plate in the form of a bar code as well.

3.3 Description

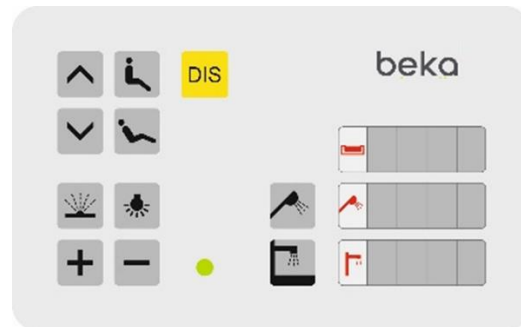
In this manual, the product is called bath tub and (bath) tub.

3.4 Descriptions of the various models

AVERO Motion:

11 button control panel, tub spout and thermostat mixer

Optional with 10 button hand control



AVERO Motion E

Without control panel, with 6 or 10 button hand control and attached fitting.



4 Safety

4.1 Intended and appropriate use

The product has been developed especially for use in medical technology. It is designed for bathing and providing care to patients and dependent people in hospitals, health care facilities and nursing homes. The AVERO Motion is designed for a treatment of 30 minutes at the most.

Please observe that the product is not protected against the effect of higher mechanical forces and has only limited protection against the ingress of spray water in the enclosure, the motor, the control unit and the batteries. The product is not designed for use in atmospheres with combustible mixtures!

The product may only be used for the intended specified purpose. Please observe also the general warnings and safety instructions contained in section 4.5.

NOTE 	The product must be used by appropriately trained nurses with adequate knowledge of the care environment, their usual practices and procedures, and in accordance with the guidelines in the instruction manual. In case of doubt, please consult the attending physician.
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4.2 Other prescriptions

The product complies with the current regulations according to MDR.

Before commissioning, have your electrical installation checked by a specialist company in accordance with the applicable regulations. Have the device installed by a qualified electrician in accordance with the regulations applicable in your country.

NOTE 	All plumbing and electrical work shall be performed by professionals in accordance with local and national codes.
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4.3 Safety instructions

Please read the following safety instructions prior to using the product. All notes, specifications and warnings mentioned on the device as well as in the present operating manual must be imperatively respected and observed. The manufacturer BEKA Hospitec shall not accept any liability for any damages, failures or faults caused by improper operation or handling.

4.4 List of used safety instructions



Please observe the accompanying documents/operating manual.



Medical device



CE-label in accordance with the EC-Directive on Medical Devices



Name and address of the manufacturer



Date of manufacture



Warning Hazardous Area.



Achtung

IPX4

Protection against the penetration of liquids: Protection against water splashing from all directions.



Applied part "Type B" to DIN EN 60601-1.



Solely intended for indoor use.



Special waste, no household waste.
The device and the packaging materials never must be disposed of in the domestic waste stream.



General recycling symbol



Air pressure limits (lowest air pressure / highest air pressure)



Air humidity limits (lowest air humidity / highest air humidity)



Temperature limits (minimum temperature / maximum temperature)



Do not put feet on the frame.

4.5 Warnings



General

- The product may solely be used for the purpose mentioned in chapter 4.1 Intended use.
- The product may only be installed, set up and maintained by persons authorized by the manufacturer who meet the requirements set out in §2 section 2 of the German Medical Device Operator Ordinance (MPBetreibV).
- The company reserves the right to make changes to the appliance without prior notice.
- When using the product, please observe all prescriptions of the Medical Device Legislation Implementing Act (the German *Medizinprodukterechts-Durchführungsgesetzes, MPDG*) and any relevant issued statutory orders pursuant to this, as well as the health and safety regulations, the accident prevention regulations and the generally acknowledged regulations of technology. If the product is used outside Germany, please respect and observe the applicable national legislations and regulations.
- This product is a medical device according to the Ordinance on Medical Devices (EU) 2017/745 and DIN EN 60601-1. The Medical Device Operator Ordinance is binding for users in Germany. In other countries, the relevant national legislation is applicable. The insulation paths used in the appliance meet the requirements of the standard: DIN EN 60601-1 (IEC 60601-1) Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.

Operational environment

- The product is not protected against the effect of higher mechanical forces and has only limited protection against the ingress of spray water in the enclosure, the motor, the control unit and the batteries.
- The appliance is not approved for operation in potentially explosive areas nor in atmospheres with combustible mixtures or with an increased oxygen content.
- Please make sure that the electrical installation of the room or the area, in which the appliance is connected to the electricity grid, is state-of-the-art.
- The mains connection must be carried out by a qualified electrician. The latest applicable VDE-regulations must be observed at all times. Outside Germany, the relevant local regulations must be observed.
- Electromagnetic or other interferences between the medical device and other appliances cannot be excluded. In case of a risk of mutual interferences, you must disconnect the appliance from the mains by activating the circuit breaker located in the room (to be installed by the operator). The medical device is not suitable for use in the vicinity of short-wave, micro-wave or high-frequency therapy or diagnostic appliances, neither near Hf-communication devices (radio devices) and their accessories. For more information on the electromagnetic compatibility EMC, please refer to chapter 13.7.
- Do not operate or store devices that might be affected by humidity in the vicinity of the bathtub.
- Protect the appliance against heat and direct solar radiation.

Functional safety

- The product may only be used or operated by trained personnel.

- During the treatment/use, supervision is required at all times. The patient must not bathe alone! The patient must not be left unattended!
- The patient must not be the user/operator!
- The user/operator must check the functional safety and the proper condition of the appliance and its accessories (visual check, functional test, etc.) before each use of the appliance. In case of damages or malfunctions, the bathtub may no longer be used. Risk of injury!
- Please use this medical device only with original accessories according to chapter 13.5.
- The duty-cycle nor the maximum load of the lifting unit must be exceeded (refer to 13.1 Technical description).
- The user/operator must ensure that the area below and above the tub is free from objects and/or obstacles likely to prevent the free upward and downward movement of the tub.
- Please make sure that the feet or other body parts of caregivers, patients or third parties are not located under the tub or on the base frame/tub legs during the height adjustment. There is a risk of crushing or squeezing of body parts.
- Suffocation risk: The appliance may contain small parts that can be ingested. Please make sure to keep children and pets away from the appliance.
- Do not use other electrical devices in the vicinity of the tub in order to avoid the risk of electrical shocks.
- Depending on the equipment of your appliance, it might include batteries containing hazardous substances. To avoid hazardous situations, such as fire and explosion, as well as spills of these hazardous substances, the batteries may neither be opened nor in any way whatsoever be subject to mechanical modification (crushing, disassembling, shocks, etc.)! Never expose the batteries to open fire or temperatures of over 60 °C!
- Route the power and the connecting cable so as to avoid damages. Damaged power cables may cause fire or a life-threatening electrical shock and may no longer be used.
- Please make sure that the power supply is always switched when the appliance is in use.
- Never cover, modify or seal slots and openings of the appliance.
- The enclosure of the medical device must not be opened! The appliance does not contain any parts to be maintained by the user.
- Never attempt to repair or alter the appliance yourself! The proper functioning and the safety of the appliance might be compromised. Furthermore, your right to claim under guarantee is also invalidated! Repairs may only be carried out by trained, qualified professionals which are authorized by the manufacturer to do this. Please contact our customer support service or the customer support service of your vendor.
- The tub shortener (option) must be inserted into the opposing guides.
- The product must be disinfected after each use.
- Cleaning and disinfection are only allowed when the patient has left the room!
- The nursing staff must protect its skin and eyes against concentrated disinfectants and detergents. A face mask must be used as protection against aerosols.

Maintenance

- In order to ensure a safe and risk-free operation, the appliance requires an annual inspection, technical safety check and maintenance by persons authorized by the manufacturer who meet the requirements of the Medical Device Operator Ordinance ! For more information, please refer to chapter 10. In case of doubt, please contact your vendor or the manufacturer.
- Installation, maintenance, repair and inspection activities are only allowed when the patient has left the room!
- The temperature setting of the thermostat, in particular in case of thermal flushing, and the thermal flushing itself, may only be carried out by authorized service technicians. Please observe that the faucet or the water inlet as well as the other tub parts can become very hot during the flushing. Caution, risk of scalding!
- The product includes removable parts. Please refer to chapter 7 for the correct identification of the parts to avoid the risk of confusions and malfunctions.
- The product includes non-removable parts. When required, these may only be replaced by service technicians authorized by the manufacturer to that effect. Observe the assembly instructions set out in chapter 13.6.
- Check every month the pressure hoses for leaks and damages, the connections for proper fastening and tightness and the cables of the electrical connection (power and equipotential bonding) for cracks.
- Repairs to parts of the AVERO Motion may only be carried out by trained, qualified professionals which are authorized by the manufacturer to do this. Please contact our customer support service for repair requests. Any attempt of the user to open the appliance or accessories thereof will invalidate the warranty as well as all liability claims.

Environmental protection/waste disposal

- BEKA Hospitec GmbH is aware of its responsibility towards the environment. The medical device may not be disposed of in household waste!
- In accordance with the WEEE directive, all appliances and accessories that we, as a manufacturer, have placed on the market, may be returned to us for the purpose of their proper disposal. Do not hesitate to contact us concerning this matter when required and please inform your customer in case of a resale.



Instructions for operating appliance combinations

- When the appliance is used in combination with a patient transfer aid, please take care that the patient's body nor any of his/her body parts are trapped, crushed or caught in pinch points! Ensure the stability of the transfer aid in order to avoid tipping over during the transfer of the patient!

WARNING 	Prior to each use, the water temperature must be checked by hand (without wearing gloves) either with a thermometer.
CAUTION 	In case of unusual noises, damages or malfunctions, the use of the product must be immediately discontinued.
WARNING 	Any unauthorized repairs, reconstructions and modifications/alterations are not permitted for safety reasons and shall exclude all liability of the manufacturer for the resulting damages. Any further liability on behalf of the manufacturer shall be excluded for damages of any kind resulting from the use of spare parts or accessories that are not approved by the manufacturer.
NOTE 	The LED spots (optional) can heat up to 45 °C when the water is drained. Please make sure that the patient does not remain in the tub for more than 10 minutes prior to filling the tub or after draining the water.
NOTE 	The control panel can heat up to 46 °C. The patient must not come in contact with it for more than 10 minutes. The control panel is not meant to come in contact with the patient. Please make sure that the patient does not come inadvertently in contact with the control panel, e.g. with his/her head, hands or feet, for a longer period of time.
NOTE 	The water outlet/bath faucet can heat up to 42 °C. These fittings are not intended to be in permanent contact with the patient. Please make sure that the patient does not come inadvertently in contact with these fittings for a longer period of time.

5 Transport



For safe transport, storage and operation, observe the permissible ambient conditions in Chap. 13.1 Technical description.

Transport the bath tub towards the planned place of installation. Use a lift truck or similar for the transport. Put down the bath tub in a safe and stable manner, so that it cannot tilt.

5.1 Unpacking the product

To remove the packaging materials, you will need a cutter knife.

NOTE 	Take care so as to not damage the product when using tools. Do not cut with the cutter in the cardboard.
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5.1.1 Removing the cardboard

Proceed in the following way to remove the cardboard:

- Cut the strap with the cutter knife
- Remove the strap
- Lift the cardboard up to remove it and put it aside

5.1.2 Loosening the product from the pallet

The bath tub is on both sides strapped to the pallet.

Proceed in the following way to loosen the product from the pallet:

- Unscrew the fixing screws of the straps and the feet of the tub.
- Remove the straps
- Lift the bath tub off the pallet.
- Install the bath tub at the intended location of use.
- Remove the bubble wrap and the stretch film

After all fixations have been removed, you can lift the bath tub from the pallet (2 persons).

The accessories for your bath tub are included in the supplied cardboard box.



6 Installation

The bathtub may only be installed by persons who meet the appropriate requirements. Also, observe the instructions in Chapter 4, Safety.

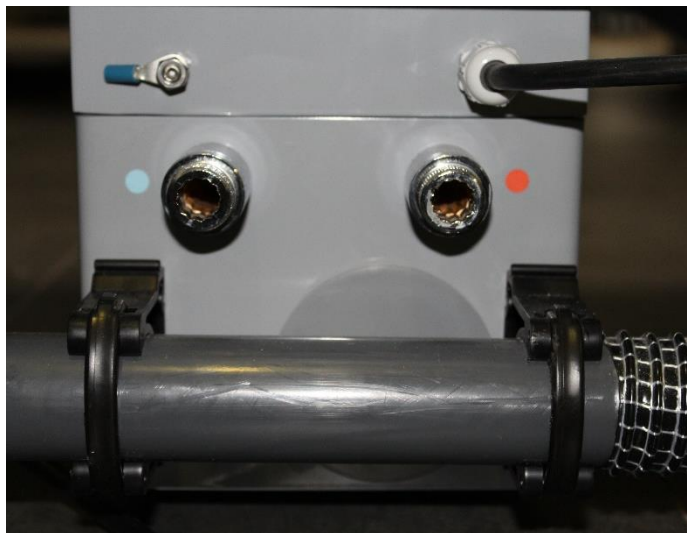
The bath tub is supplied ready for use. Use the level and the wrench (SW 10) to vertically align the bath tub. The tub legs can be screwed in or out to adjust their height. Please make sure that all legs are in contact with the floor and that the bath tub stands stable.

NOTE 	To connect the bath to the water supply, dirt filters must be used on site. Please contact your plumber to this effect.
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Prior to the assembly of the footbath, the local connection pipes must be sufficiently flushed before the footbath is connected. To avoid soiling of the pipes and fittings, dirt filters must be installed on site.

The bath tub must be connected through ½" hoses. Please also note the connection diagram in the appendix. The connection of the tub must be carried out by a trained specialist.

The connection for this is on the tub base.



● = Cold water

● = Warm water

6.1 Electrical connection

The connection of the bath tub must be executed in accordance with the technical drawings issued by BEKA Hospitec either the guidelines for the set-up and layout of wet areas and the current VDE standards.

WARNING 	All supply and drain hoses as well as the electrical cables must be installed so as to avoid the danger of tripping.
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The AVERO Motion is connected to the power supply network through a shock-proof protective socket featuring the legally prescribed splash guard (IP class), 230 V AC/50Hz, 2.5 mm², 1.5 KW, 16 Ampere, fault-current circuit breaker 30 mA, equipotential bonding (in Germany) to DIN VDE 0107. The bath tub must be connected by a qualified and competent professional.

6.2 Protective conductor

When protection class I equipment is used, the quality of the protective conductor of the installation is highly important. Please note that in this respect regulations and prescriptions have been specified in many countries by the national authorities.

WARNING 	In order to avoid the risk of electroshock, the device only must be connected to a power supply network with protective conductor.
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6.3 First start-up

WARNING 	The equipment is to be used exclusively in accordance with the accompanying documents. Only when these conditions are met, the manufacturer considers himself responsible for the impact on the safety, the reliability and the function of the device. In the event of a new connection of a AVERO Motion bath tub, the technical data must be observed.
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WARNING 	To prevent scalding, the hot/cold water mixer must be set up in accordance with the local water supply prior to the first use. The settings must be documented.
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NOTE 	In order to ensure a safe functioning and operation, we recommend a regular maintenance and set-up of the thermostatic mixer. These maintenance works are to be carried out by a qualified technician. Due to the relocation of the AVERO Motion bath tub to another room either changes to the local water supply, a readjustment of the thermostatic mixer could be required.
CAUTION 	Should your bath tub be equipped with an optional automatic disinfecting unit, the latter must be set prior to the first use.

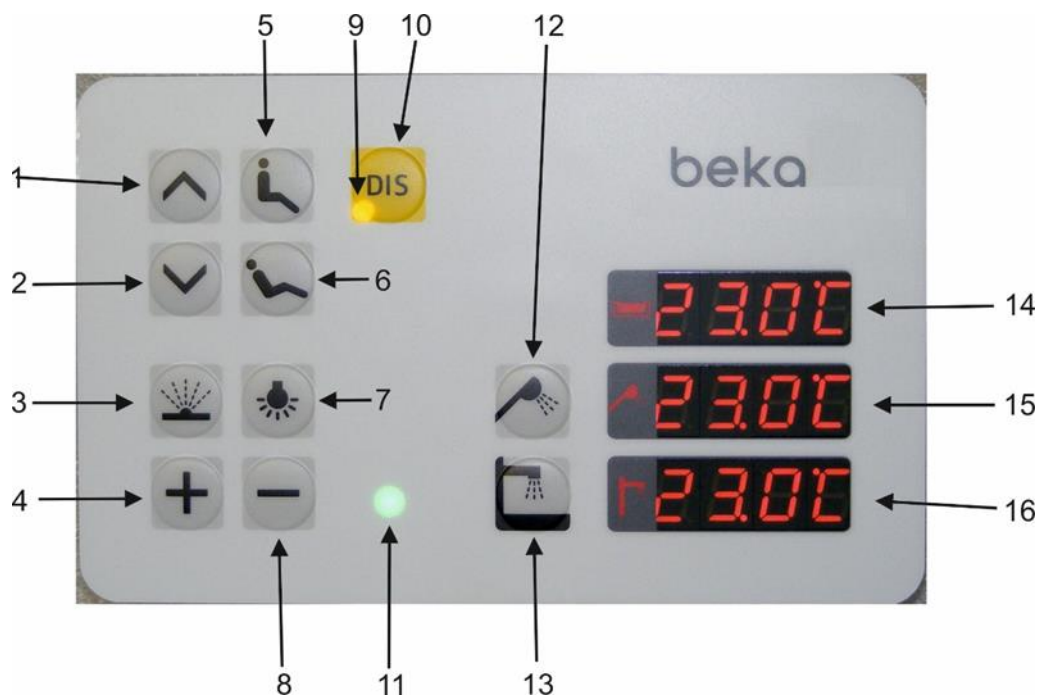
7 Operating elements and their function



No.	Description	No.	Description
1	Control panel	9	Disinfection handheld showerhead (optional)
2	Water consumption	10	Bluetooth Music Sound System (optional)
3	Thermostat knob	11	Aroma-system (optional)
4	Ball joint wall bracket	12	Foot stand
5	Handheld shower head + Handheld shower hose	13	Machine base
6	Door handle	14	Disinfectant compartment
7	Hand grip (1x left, 1x right)	15	Color light system (optional)
8	Air spa (optional)	16	Emergency stop

7.1 11 button control panel AVERO Motion

Only for AVERO Motion



No.	Description	No.	Description
1	Height adjustment button UP	9	Disinfection LED (yellow)*
2	Height adjustment button DOWN	10	Disinfection button*
3	Air spa system button on/off*	11	Power/ Function LED
4	Increase intensity of air spa*	12	Handheld showerhead button
5	Reclining adjustment button UP	13	Filling button
6	Reclining adjustment button DOWN	14	Bathwater temperature display
7	Color light system button on/off*	15	Handheld showerhead temperature display
8	Reduce intensity of air spa*	16	Filling temperature display

* Optional function

7.1.1 The height adjustment



The buttons “up” and “down” allow the tub height to be individually adjusted. If the “UP” button is activated, the tub moves in an upward motion. If the button



“DOWN” is activated, the tub moves in a downward motion. The movement automatically shuts itself off once the selected level has been reached.

7.1.2 Reclining adjustment up / down



The tub’s tilt position can be individually adjusted by using the "Tilt upwards" and "Tilt downwards" buttons. Activating the "Tilt upwards" button moves the



patient to the sitting position. Activating the "Tilt downwards" button moves the patient to the lying position.

Note



The tilt and height adjustment cannot be operated simultaneously.

7.1.3 The display screens (only AVERO Motion)

On the built-in digital display the following is shown:



- Display 1 = Bath water temperature
- Display 2 = Hand held water temperature
- Display 3 = Filling temperature

It is displayed in 0.5 ° increments. The display can be displayed in ° C or ° F.

If the measured temperature greater than 43°C, then the appropriate indicate "HOT" alternating with the temperature is displayed.

The temperature is displayed in a range from 2.5 °C (32.5 °F) to 64.0 °C (99.5 °F).

If the temperature is less than 2.5 °C "TLO" will appear.

If the temperature is more than 64.0 °C "T HI" with “99,0°” will appear.

7.1.4 Power / Function LED Display (only AVERO Motion)

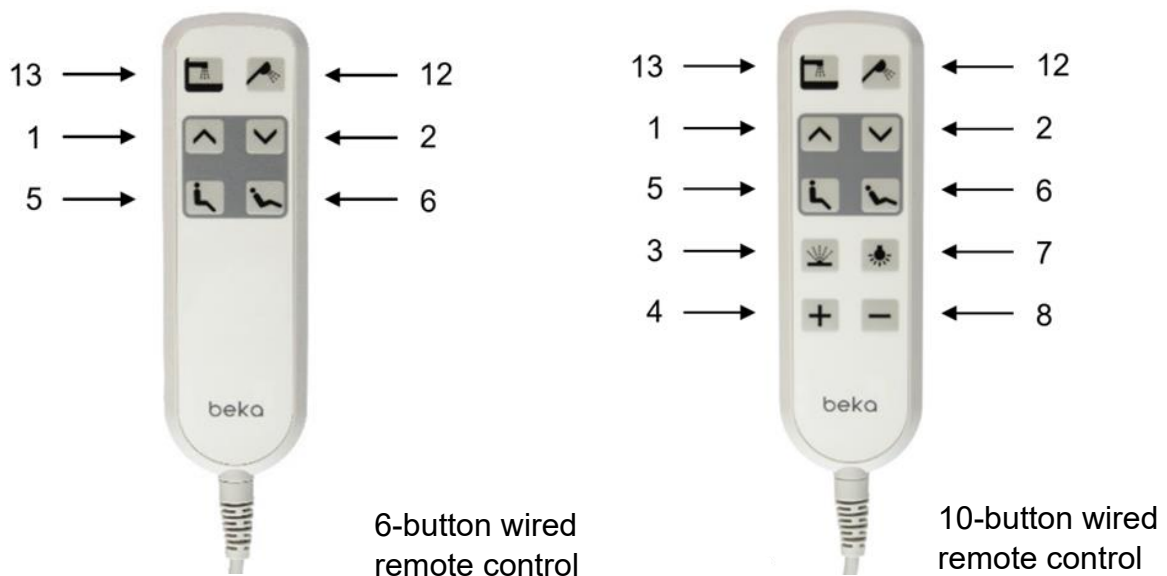
The LED display (11) shows you the status of the bathtub.

The following states are displayed:

LED green, permanent	Standby, ready for operation.
LED blue, flashing (slow)	Water is flowing! (water inlet or hand shower)
LED blue, flashing (fast) (optional)	Additional filling activated. The filling process must be ended manually, otherwise the bath could overflow (only if the automatic water stop option is integrated in your bath).
LED blue, permanent (optional)	There is water in the bathtub, the optional cleaning / disinfection system is blocked (only AVERO Motion, if one of the options Cleaning / disinfection system, Automatic water stop or Air bubble bath system is integrated in your bathtub).
LED flashing blue – green (optional)	Waiting for the air jets to blow out (only if your bathtub is equipped with the air bubble bath system).

Note: there is no LED display for AVERO Motion E!

7.2 Cable remote control



No.	Description	No.	Description
1	Height adjustment button UP	6	Reclining adjustment button DOWN
2	Height adjustment button DOWN	7	Color light system button on/off*
3	Air spa system button on/off*	8	Reduce intensity of air spa*
4	Increase intensity of air spa*	12	Handheld showerhead button
5	Reclining adjustment button UP	13	Filling button

* Optional function

The operation of the AVERO Motion and AVERO Motion E sitting and reclining bathtubs is the same for both versions.

When equipped with only the 6- or 10-button cable remote control, the temperature displays, the button for the cleaning/disinfection system and the "hot" and "cold" warnings are omitted. The operating buttons for the colored light system and air bubble bath system are also omitted on the 6-button version.

The scald protection must be set mechanically on the thermostatic mixer beforehand. Please refer to the enclosed instructions for use.

The AVERO Motion E hand shower must be activated via the mixer.

7.3 Thermostatic mixer / tap / hand shower

NOTE 	For the setting and the operation of the thermostatic mixer/faucet as well as for performing the thermal flushing, the enclosed user manual of your thermostatic mixer/faucet must be observed.
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7.3.1 The hand shower (only AVERO Motion)



The handheld showerhead is switched on or off by pressing button (12).

The Handheld shower head is switched off automatically when the temperature of the Handheld showerhead is above 43 °C is greater (scald protection, display flashes "HOT").

If the scald protection activates (temperature display flashes "HOT"), the handheld showerhead cannot be turned on using the button (12).

The handheld showerhead can be switched on with the following key combination: Hold and press button (12), press additional keys (3) and (7) together.

The handheld showerhead can always be turned off using the button (12) (also with an active scald protection).

7.3.2 Turn on the handshower (only AVERO Motion E)

Press the button  to start the water flow.

By turning the rotary knob to change over, you can toggle between the bath spout and the hand shower. Your fitting is equipped with an Eco function. The flow rate of the hand shower is limited. To increase the flow rate, press the catch and turn the knob counter-clockwise.

The amount of water is increased.



Changeover bath spout / hand shower

Note: With the Motion E, the "Hand shower" button (12) on the cable remote control has the same function as the "Bath filling" button (13).

7.3.3 Filling and filling height



If your tub is equipped with the **"automatic water stop"** option the water supply can be stopped automatically.

There are two fixed fill levels for filling the bath that can be selected.

If the AVERO Motion is in the entry position (tilted) only the tub's foot space will be filled. Press this button.

After tilting in the bathing position you can fill the tub to the desired bath water level by pressing the button (13). 

Stopping filling up to the filling height is achieved by pressing the button (13).

To start filling again, press the button (13) again.

Note! 	<i>If your tub is not equipped with the "automatic water stop" option you must turn off the filling of the tub manually.</i> <i>Press this button</i>  <i>If you do not manually turn off the filling of the tub, the water will overflow (Water will keep running).</i> <i>Manual filling is only permitted under supervision.</i>
---	---

Only for AVERO Motion: The bath filling is automatically switched off when the filling temperature is greater than 43 °C (scald protection, display flashes with "HOT").

If the scald protection activates (temperature display flashes "HOT"), the bath filling cannot be turned on using the button (13).

The tub filling can then be switched on with the following key combinations:

Press down button (13), then also activate buttons (3) and (7) together.

The bath filling can always be turned off using the button (13) (also with an active scald protection).

7.4 Other/optional elements and functions

If your tub is equipped with functions, such as the colored-light system, the music sound system, aroma and air-spa system and/or the emergency function in case of power failure, please observe the enclosed user manuals as well.

Emergency function in case of power failure

The “Emergency function in case of power failure” option allows for a one-time lowering of the tub, to enable the patient leaving the tub comfortably despite the power failure. For this function, led batteries are integrated in the product.

WARNING 	The optionally available batteries contain hazardous substances. The batteries may never be opened nor in any way whatsoever be subject to mechanical modification ! Never expose the batteries to open fire or temperatures of over 60 °C! Risk of fire and explosion! • In case of contact of the liquid leaking from the battery with skin or clothes, wash the affected areas immediately with plenty of water. • In case of contact of the liquid leaking from the battery with the eyes, rinse immediately with plenty of water and seek medical advice. • The vapors emitted by the substances contained in the batteries can cause respiratory irritation. Bring the affected person into fresh air and seek medical advice.
--	---

Emergency Stop

When the emergency stop is activated, only the electric motors are disconnected from the power supply. The motors stop immediately. Other functions remain active.

The emergency stop should only be used if there is an immediate danger to the patient or operating personnel.

By pressing the emergency switch, you can also lock the lifting and tilting functions, thereby preventing unauthorized use.

To unlock, turn the knob in the direction of the arrow (see illustration).



Cleaning/disinfection system

WARNING 	If your bathtub is equipped with a cleaning/disinfection system, you must imperatively respect and observe all instructions and notes of the enclosed manual. The following description alone is NOT sufficient to operate the cleaning/disinfection system.
---	--

Activate the cleaning/disinfection system only, when **no** patients or unauthorized persons within the vicinity of the bathtub!

Note: The cleaning/disinfection system can be activated only, when there is no water in the tub and the other functions (e.g., air-spa system, hand shower and tub filling) have been deactivated.

Press the button 1 “DIS” to activate the system. The LED 15 of the “DIS” button lights permanently yellow and you can spray disinfectant in the tub using the yellow hand shower (at least 15 seconds). By pressing the “DIS” button again or automatically after 5 minutes, the cleaning/disinfection system is deactivated and the reaction time (5 or 10 minutes) starts. During the reaction time, the LED 15 flashes yellow. As soon as the reaction time has expired or has been canceled by a long press on the button 1 “DIS”, the yellow LED goes off and all functions are re-enabled. Rinse the tub thoroughly to remove all residues of the disinfectant from the tub.

The contact time can be individually set by our service technicians from 1 to 15 minutes. Please contact our service department for this.

8 Operation

8.1 Description of the AVERO Motion

AVERO Motion's concept is to facilitate bathing or showering, to promote the patient's mobility and provide the opportunity to enjoy a relaxing bath.

It is possible for both mobile and partially mobile patients to step into the tub autonomously by means of the large side-opening door.

Even patients with limited mobility can look forward to autonomous access into a full bath without the use of assistive equipment or the danger of slipping inside the tub.

The base frame is freely accessible, which makes a transfer to the tub either by a NORA raising aid or by means of a CARLO cloth lift possible.

The tub is equipped with an electric height adjustment which can be lowered to an entry height of 49 cm, to make a smooth, autonomous transfer to the tub from a wheelchair.

8.2 Prior to use

Please check the proper state and the functional safety of the system prior to use.

8.3 During use

NOTE 	Please respect and observe the warnings and safety instructions set out in chapter 4.5, section "Functional safety" during the use of the appliance.
WARNING 	When the appliance is used in combination with a patient transfer aid, please take care that the patient's body nor any of his/her body parts are trapped, crushed or caught in pinch points! Ensure the stability of the transfer aid in order to avoid tipping over during the transfer of the patient!
CAUTION 	Please make sure that the feet or other body parts of caregivers, patients or third parties are not located under the tub or on the base frame/tub legs during the height adjustment.

Using the  button, set the AVERO Motion to the entry position.

If necessary, guide the tub down to the bottom entry height level. Press this button  and hold the button down until the motion automatically switches off automatically.

Fill the foot space of the AVERO Motion by pressing the button .

If your tub is equipped with the optional “**automatic water stop**” function, the filling will automatically stop when it reaches the fill level.

If your tub does not have this option, interrupt the filling process by pressing the  Button again

Make sure to only fill the foot space so that you can open the tub door!

Note 	Check the water temperature by hand (without gloves) or with a thermometer before the patient steps in the tub.
--	--

Open the door to the AVERO Motion.

To open the door, unlock the door lock by turning the lever in a downward motion!

		
Door lock closed	Direction of lever movement	Door lock open

Once you have opened the door lock, you can open the door by raising it.



When the patient is seated in the tub, or you have placed the patient in tub, close the door.

To lock the door, pull it down to the tub body.

WARNING 	Ensure that none of the patient's body parts are between the door and the tub body. These parts could get caught and injure the patient.
---	---

		
Pull the door to up to approx. 15 cm in front of the lock and check the position of the locking lever. If the door handle is not in this position, bring it to the required position.	The picture shows the handle and lock in the wrong position. The lock is completely extended, thus preventing the AVERO Motion door from properly closing. Warning: Risk of injury!	The picture shows the door in the end position; the door can now be locked with the handle.

	
Press lightly with one hand on top of the body of the door and move the handle of the door in a clockwise motion with the other hand.	Move the handle until you have reached the end position shown here in the picture.

Note: 	These points can be omitted when placing the patient into the tub with the help of the lift system.
---	---

Once the patient is seated in the bathtub, or after you have placed the patient in the bathtub, close the door. To close the door, pull it downwards until it is flush with the bathtub body.

Note: The patient must **NOT** stand in the bathtub.

Tilt the tub by pressing the  button until the motor shuts itself off.

To refill the tub, press the control button .

When the water has reached the selected level, filling will automatically stop.

(This feature is only included with the “automatic water stop” option).

If your tub is not equipped with this option, interrupt the filling process by pressing the  button again when the selected fill level has been reached

Note! 	Check water temperature with your Hand (without gloves) or with a thermometer!
---	---

When the bath is finished, turn the rotary knob eccentric cam (overflow) in order to drain the water.



The picture shows the direction of movement for opening (1) and closing (2) the rotary knob cam (overflow).

At this point you can already start to dry the patient while he sits comfortably in the tub.

In order to ease the patient out of the tub tilt the tub by pressing the  button until the motor shuts itself off.

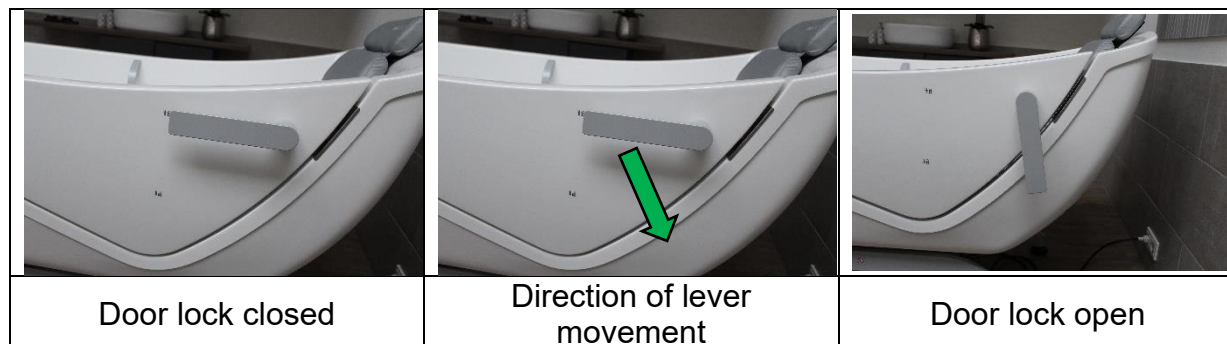
If necessary, guide the tub down to the bottom entry height level. Press this button



and hold the button down until the travel movement is automatically switched off.

Open the AVERO Motion door.

To open the door, unlock the door lock by turning the lever in a downward motion.



Once you have opened the door lock, you can open the door by raising it.



Help the patient out of the tub, or use a lift system to ease the patient out of the tub.

Note! 	Make sure that the tub is always disinfected and rinsed before using it for the next patient.
---	--

Use the integrated cleaning/disinfection system (**optional**), which your AVERO Motion seated and reclining bathtub may be optionally equipped with.

Note: If the cleaning/disinfection system fails, manual disinfection must be carried out.

Ending Operation

To safely end operation, ensure that the water supply is turned off and the bathtub drain remains open. Check that the hand shower is placed in its designated holder and is pointing towards the bathtub floor.

When not in use, the product remains in standby mode and is not switched off or disconnected from the power supply.

Make sure that the next use only occurs after the previous cleaning and disinfection have been completed, and that any residues of cleaning or disinfecting agents have been removed.

9 Cleaning/Disinfection

CAUTION 	Make sure that the system is not in operation during the cleaning activities.
CAUTION 	After each treatment, the bath tub must be completely disinfected with a disinfectant. In this way, any cross-contamination is avoided. Strictly respect and observe the manufacturer's instructions for the used disinfectant.
CAUTION 	Use a disinfectant only when no patient is in the bathtub. Avoid direct contact with the concentrated product. If necessary, protect your skin and eyes by wearing gloves and safety goggles.

9.1 Cleaning the bath tub

Clean the device with a soft, lint-free cloth moistened with mild household cleaners or alcohol-based cleaning and disinfecting agents commonly used in clinical settings. To remove grease stains, skin residues, and hair, use a sponge and soap. Do not use scouring agents or other aggressive cleaning or disinfecting products!

To avoid damage, do **not** use aerosol cleaners, sprays, scouring agents, or solvents to clean the control panel. If aggressive cleaning agents are used despite this warning, all warranty claims regarding surface damage will be void.

Ensure that no liquids enter the device's housing, motor, control unit, or batteries during cleaning and disinfection!

9.2 Disinfecting the bath tub

You must carefully disinfect and rinse your bath tub after each use to avoid the risk of transmission and infection. For the manual disinfection of the surface, an isopropyl alcohol solution or a customary disinfection aerosol (spray) can be used. The tub body of the AVERO Motion bath tub is in glass-fibre reinforced plastic and can be disinfected with a surface disinfectant (not aggressive).

If your bath tub features an integrated disinfecting system, you can disinfect your tub with the (yellow) disinfecting hand shower. In this case, a separate instruction manual is included. Note: If the integrated cleaning/disinfection system fails, manual disinfection must be carried out.

NOTE 	The nozzles of the air spa must be disinfected after each use!
--	--

9.3 Sterilising the bath tub

The AVERO Motion bath tub is **not** suitable for sterilization.

10 Checks/tests

In order to ensure a safe use of our AVERO Motion bath tub and the protection of the users and the patients, BEKA Hospitec prescribes an annual safety check. This includes, among other things, a visual inspection for external damage (housing, power connections, legible labeling, contamination, etc.) as well as the availability and completeness of the documentation.

The execution of the safety checks and maintenance must be documented and proven on request. Please use your inventory register to this effect.

Inspections, maintenance, and checks may only be carried out by trained, qualified personnel authorized by the manufacturer who meet the requirements of the German Medical Devices Operator Ordinance (MPBetreibV). Outside Germany, the respective national regulations must be observed. Failure to comply may result in injury or an unsafe product.

If in doubt, contact your supplier or the manufacturer.

NOTE 	In accordance with the UVV (accident prevention) regulations of the German employer's liability insurance association on stationary equipment which is used in special locations or installations, an annual check to the DGUV (German Statutory Accident Insurance Association) Prescription 3 (BGV A3) must be carried out on the AVERO Motion bath tub .
---	--

This check is only prescribed for Germany. In other countries, other requirements might be applicable.

WARNING 	Do not conduct any cleaning, maintenance or test activities when the bath tub is in use. This could cause danger to the user and the patient.
---	--

measures to be conduct	Before each application / daily	weekly	monthly	yearly
Check the level of the disinfectant. (If available)	X			
Clean and disinfect the tub.	X			
Check the tub for function.		X		
Conduct a visual inspection of all components, power cables, hoses and connections.		X		
Check the water inlet and clean it if necessary.			X	
We recommend regular maintenance, a safety check and a check to DGUV prescription 3.				X

The batteries of the optional emergency function in case of power failure must be replaced **every two years**. The batteries may be replaced only by qualified professionals, authorized by the manufacturer to do so.

WARNING 	To avoid hazardous situations, such as fire and explosion, as well as spills of these hazardous substances, the batteries may NEITHER • be opened NOR in any way whatsoever be subject to mechanical modification, • ignited, exposed to temperatures of over 60 °C, • knocked over, • polarity-reversed, short-circuited or • overloaded. Do not use unsuitable spares for the batteries or their charger!
---	---

The fuses used may be replaced only by qualified technicians, authorized by the manufacturer to do so.

The mains power cable is firmly attached to the product. In case of damages, you must immediately disconnect the appliance from the power supply and request a repair by maintenance personnel authorized by the manufacturer. The appliance may only be put back into service after it has been repaired!

Please contact our customer support service for repair requests!

11 Waste disposal

BEKA Hospitec GmbH is aware of its responsibility towards the environment. The medical device must not be disposed of with household waste!



In accordance with WEEE, we as the manufacturer take back all devices and accessories placed on the market by us for the purpose of proper disposal. If necessary, please contact us and inform your customers in the event of resale.

11.1 Disposal of the packaging material

Please recycle the packaging materials of the product in accordance with the locally applicable regulations and laws. The metal parts as well as the plastic and electronic components must be recycled in accordance with the WEEE.

11.2 Disposal of the product

The expected service life of the bath tub is approx. 10 years. At the end of the product's lifetime, contact your BEKA dealer, who will recycle the product in accordance with the locally applicable regulations and laws.

For an environmentally-sound disposal, the company BEKA Hospitec GmbH will provide more information in its capacity of manufacturer.

Please clean and disinfect the product prior to its disposal as well.

12 Troubleshooting help/After-sales service

Problems with the bath tub	Remedy
The height adjustment of the bath tub is not working.	a) Check if the mains voltage is present. b) Check if the control unit is damaged c) Check if the connecting cable is damaged d) Check whether the emergency stop is activated
The bath tub remains in the top end position.	a) Check if the mains voltage is present. b) Check whether the emergency stop is activated
The hoisting motor does not run	a) Check if the mains voltage is present. b) Check whether the emergency stop is activated
The drive is switched off during the lifting procedure.	The maximum load is exceeded (max. patient weight).
Mains LED and temperature indications do not lit.	Check if the fuse and the fault-current circuit breaker are activated.
Mains voltage fails.	a) Check fuse. b) Check the cables for damages.
No water.	a) Check the shut-off valves of the cold and hot water. b) Check the filter situated in the water inlet.
The automatic filling is not working.	Disconnect the bath tub from the power supply. Perform restart. If no result is obtained, contact the service/after-sales service.
Only hot or cold water flows out of the faucet.	a) Check if the hot and cold-water connection are reversed (locally, tub). b) Check the filter as well as the inlet and outlet faucet for clogging. c) Check whether the ball valves are open.
Too low a water flow rate.	a) Check the filter as well as the inlet and outlet faucet for clogging. b) Check that the flow rate is sufficient for the supply conditions. c) Check if the connecting hoses are bent.
The faucet leaks water.	Check if the seals are damaged, replace seals if necessary.
Too high a filling speed.	Water pressure too high (install a pressure reducer on site).
The water flows away during the bathing process.	a) Check water plug and if necessary readjust the screw of the water plug. b) Check the seal for soiling and damages.

The bathing water does not flow away.	a) Check water plug and if necessary readjust the screw of the water plug. b) Check the seal for soiling and damages.
The wired remote control is not working.	a) Check if the cable is properly plugged in. b) Inspect the cable for damage. c) Check the power connection of the tub. d) Inform service / customer support.
The cleaning/disinfection system (optional) is not functioning.	a) Check the injector. b) Check the disinfection storage tank. c) Check the hose of the disinfectant.
The air spa (option) system is not working.	a) Check if the mains voltage is present.
The air spa system (option) fails during operation.	a) The air spa system has been used for over 15 minutes. Let the air spa system cool down. b) Overheating due to too high an ambient temperature. Let the air spa system cool down.
The sound system (option) is not working.	Check whether the Bluetooth is connected properly
The colour light therapy is not working.	a) Main board defect. Inform the after-sales service. b) Projector defect. Inform the after-sales service.
The bath tub produces unusual noises.	Inform the after-sales service.
The bath tub shows signs of damage.	Inform the after-sales service.

When your bath tub does not function properly and you cannot eliminate the error by means of the remedies listed in paragraph 12 please contact the after-sales services of your dealer either the manufacturer.

beka DIFFERENT BY DESIGN	BEKA Hospitec GmbH Am Rübenmorgen 3 35582 Wetzlar Fon: +49(0)641-9 22 20-0 Fax: +49(0)641-9 22-20-20 info@beka-hospitec.de
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13 Appendix

13.1 Technical data

Electrical data

- Application part:	Type B
- Protection class:	I
- Supply voltage:	230 V, 50 Hz - 120 V, 60 Hz
- Power consumption:	max. 840 VA
- Insulation distance:	2 MOPP
- Main fuse:	T 6.3 AH, 250 V
- Electrical connections:	Bluetooth (only with Music Sound System option)
- Batteries:	2 lead-acid batteries, 12 V, 1.2 Ah each (Kung Long Batteries WP1.2-12, only with option emergency function in case of power failure)

Water connection

- Permissible water pressure:	max. recommended static pressure 5 bar (500 kPa) min. recommended operating pressure outside UK: 2 bar (200 kPa) / UK: 1 bar (100 kPa)
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Dimensions and weights

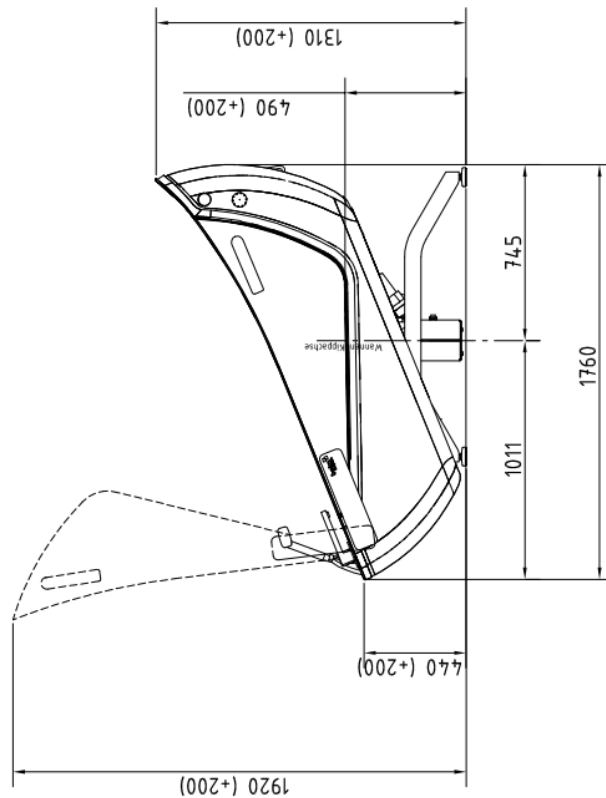
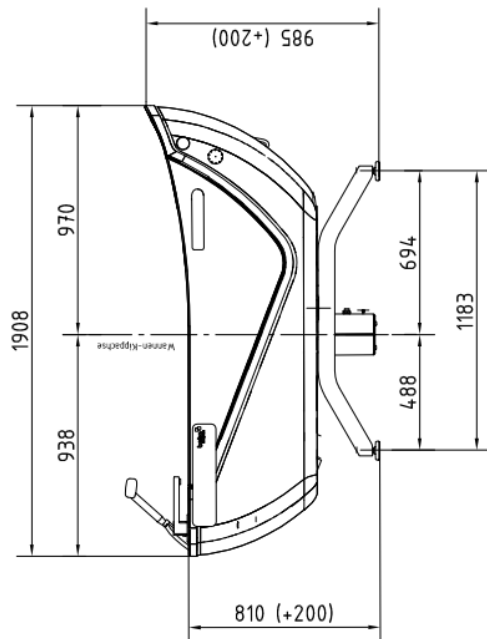
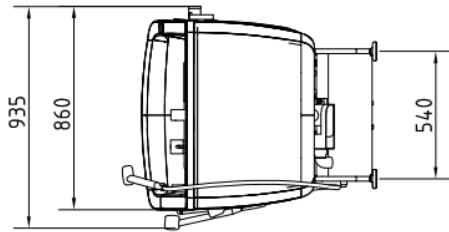
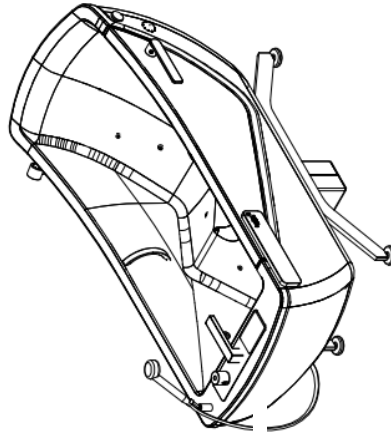
- length entry position:	1760 mm
- length lying position:	1908 mm
- Width:	860 mm without disinfection shower 935 mm with disinfection shower
- Tub width (inside):	620 mm (bottom) / 680 mm (top)
- Height with open door:	1920 mm (lowest tub position) 2120 mm (highest tub position)
- Height stroke:	200 mm
- Height lying position:	810 mm - 1010 mm / 985 mm - 1185 mm (front / rear)
- Height of the tub in entry position:	440 mm - 640 mm / 1310 mm - 1510 mm (front / rear)
- height of the boarding position:	490 mm - 690 mm
- Angle of inclination:	23°
- Weight without packaging:	approx. 160 kg
- Pre-filling capacity (foot basin):	98 l
- Filling volume (without patient):	approx. 270 l
- tub emptying (liters / min.):	75 l/min
- Water consumption / resident:	average 185 l
- Patient weight:	max. 220 kg
- SWL (safe working load):	max. 350 kg (patient and water)

IP protection level

- Tub:	IPX4
- Cable remote control:	IPX6

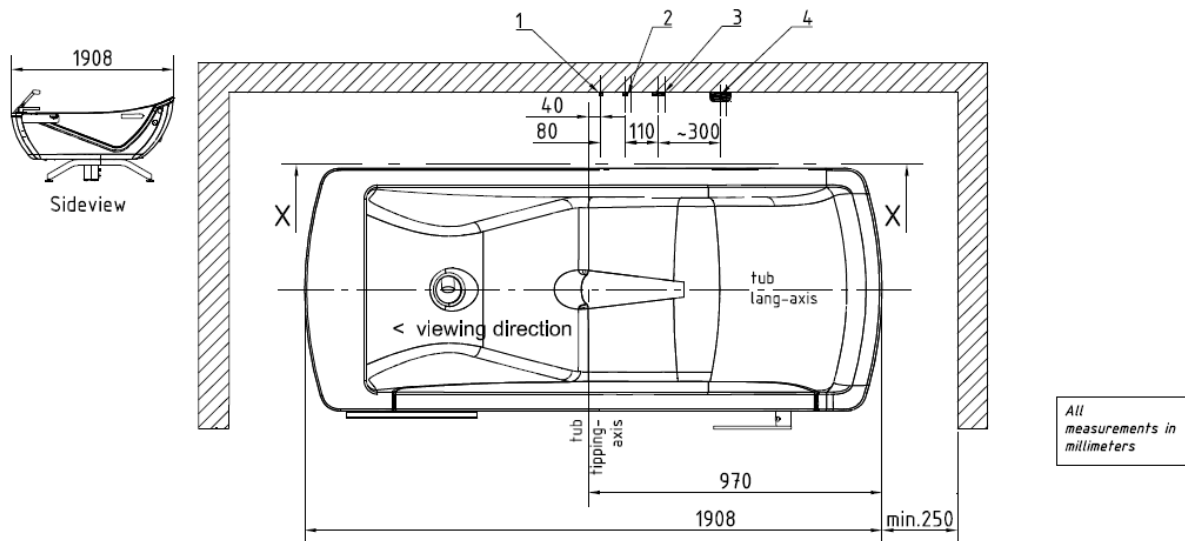
Operating mode	
- Operating mode of the height adjustment:	Non-continuous operation
- Switch-on cycle (motor):	max. 2 min On then min.18 min Off
Ambient conditions	
Operation	
- Temperature range:	10 °C (50 °F) to 30 °C (86 °F)
- Relative humidity:	30% to 95%, non-condensing
- Atmospheric pressure:	80 kPa to 106 kPa
- Operation in oxygen-enriched atmosphere:	not provided
- Sterilization	not provided
Storage and transport	
- Temperature range:	-20 °C (-4 °F) to 70 °C (158 °F)
- Relative humidity:	10% to 80%, non-condensing
- Atmospheric pressure:	50 kPa to 110 kPa
Noise level	
Noise level during lifting / lowering, no load	40 dB (A)
Noise level during lifting / lowering, full load	42 dB (A)
Air bubble system noise level, high intensity	73 dB (A)

13.2 Dimensions AVERO Motion Tilt and Reclining Bath Tubs

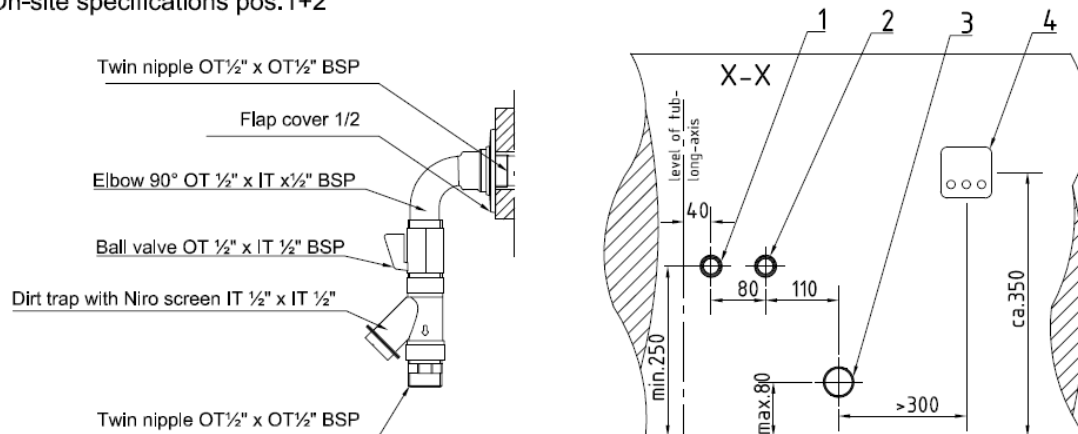


13.3 Wiring Diagram

13.3.1 Connection at the side



On-site specifications pos.1+2



All lengths displayed in mm, unless otherwise specified

➔ Pre-Set safety measure!

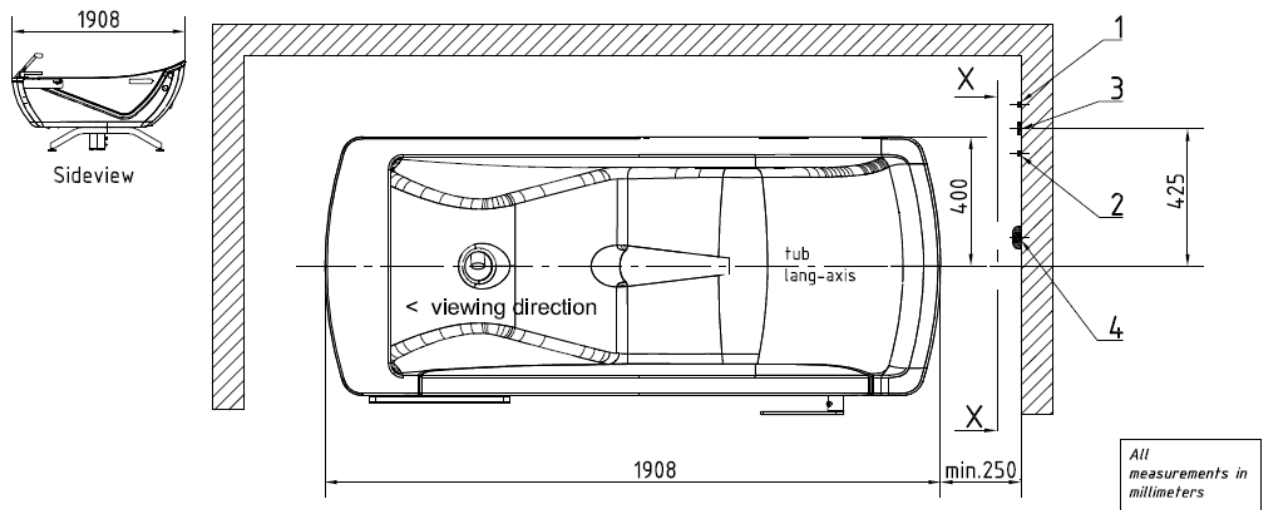
Close valves for cold and warm water.

Please comply with local rules and regulations for electrical systems in wet and humid rooms.

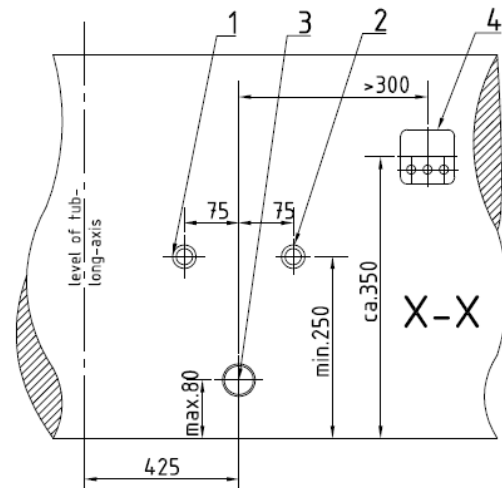
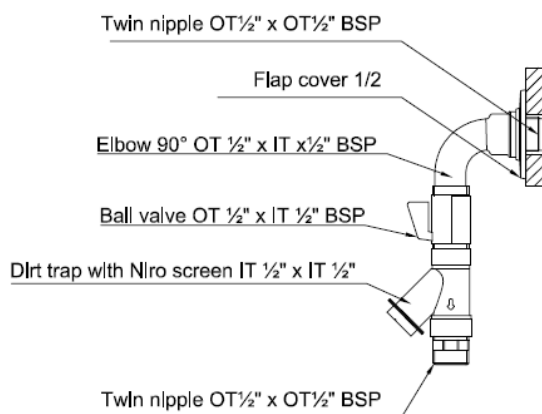
➔ Building side connections – sanitary - electrical

- ① Warm water connection 1/2", female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ② Cold water connection 1/2", female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ③ Wall drain DN 50, (min. drain capacity 1 l/s)
- ④ Junction box (min. IP X5), 230 V/50 Hz, 2.5 mm².
Fuse protection 16 A. Position according to local codes and standards
Equalize electrical potential according to local codes and standards.

13.3.2 Connection at the rear



On-site specifications pos.1+2



All lengths displayed in mm, unless otherwise specified

➔ Pre-Set safety measure!

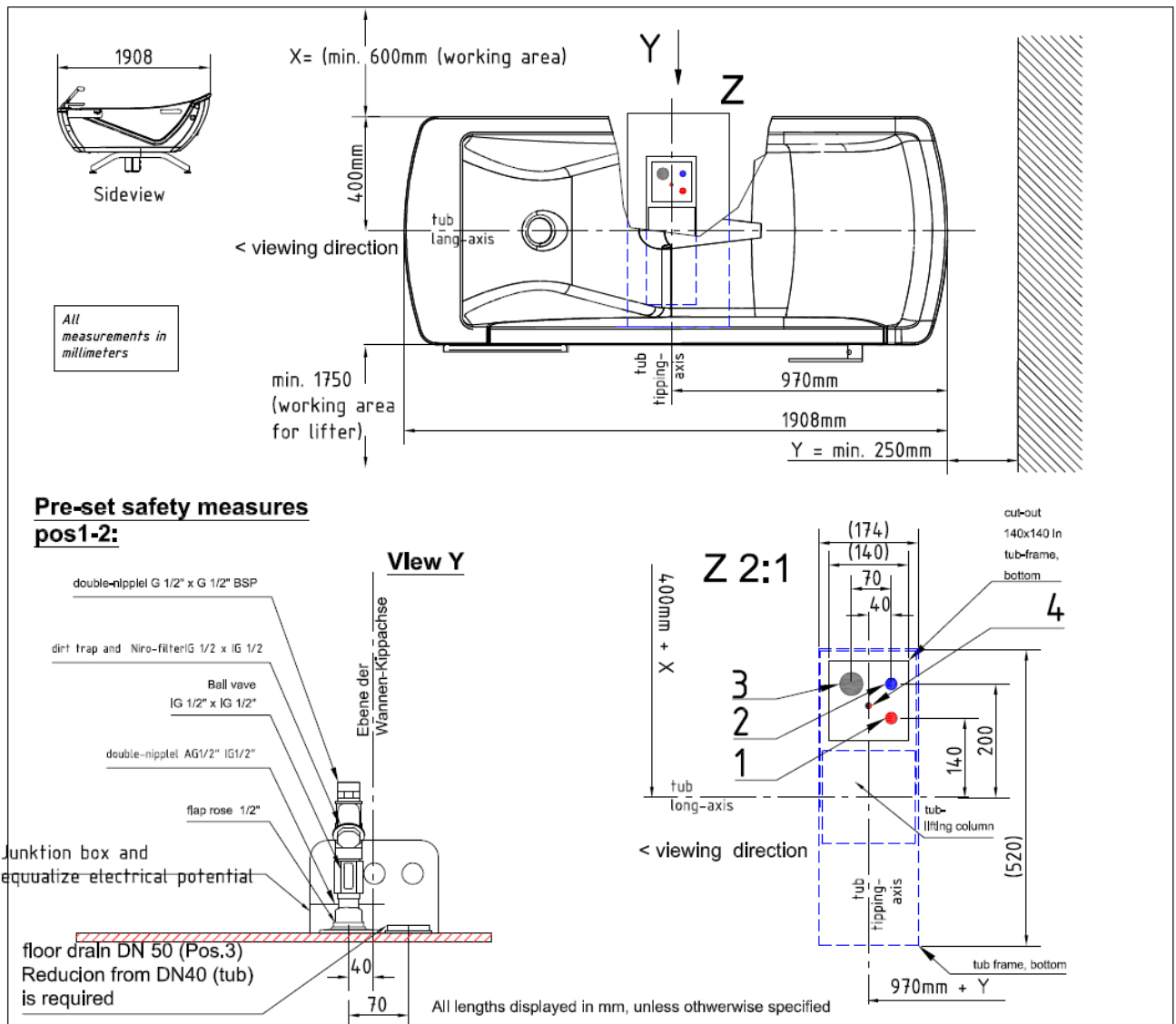
Close valves for cold and warm water.

Please comply with local rules and regulations for electrical systems in wet and humid rooms.

➔ Building side connections – sanitary - electrical

- ① Warm water connection 1/2 inch, female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ② Cold water connection 1/2 inch, female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ③ Wall drain DN 50 (min. drain capacity 1 l/s)
- ④ Junction box (min. IP X5), 230 V/50 Hz, 2.5 mm².
Fuse protection 16 A.
Positioned according to local codes and standards.
Equalize electrical potential according to local codes and standards.

13.3.3 Connection at the floor



➔ Pre-Set safety measure!

Close valves for cold and warm water.

Please comply with local rules and regulations for electrical systems in wet and humid rooms.

➔ Building side connections – sanitary - electrical

- ① Warm water connection 1/2", female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ② Cold water connection 1/2", female threading tile-even. Assemble double-nipple, ball valve, dirt trap and rosette (see illustration Pos. 1 and Pos. 2 for details).
- ③ Floor connection: Socket DN 50 flush with the tiles
- ④ Junction box (min. IP X5), 230 V/50 Hz, 2.5 mm².
Fuse protection 16 A. Position according to local codes and standards
Equalize electrical potential according to local codes and standards.

13.4 Declaration of Conformity

EU-Konformitätserklärung / EU-Declaration of Conformity

Der Hersteller / The manufacturer

BEKA Hospitec GmbH, Am Rübenmorgen 3, D-35582 Wetzlar-Dutenhofen

SRN: DE-MF-000013895

erklärt in alleiniger Verantwortung gemäß Verordnung (EU) Medizinprodukte 2017/745 des Europäischen Parlaments und des Rates vom 5. April 2017 über Medizinprodukte MDR, Kapitel V, Abschnitt 2, Artikel 52, Unterabsatz 7, dass die folgenden

BEKA Pflegebadewannen und deren Zubehör

declares under sole responsibility according to the Regulation (EU) Medical Devices 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices MDR, Chapter V, Section 2, Article 52, subparagraph 7, that the following

BEKA Care Bathtubs and their accessories

Basis-UDI-DI: 426068189122BR

Produkt / Product	Artikel Nr. / P.N.
AVERO Motion / AVERO Motion E	810150550, 810150550C, 910150550, 710150550, 910150552, 910150553, 810150540, 910150540, 910150542, 710150540
AVERO Premium Plus 175 / 190 AVERO Premium Plus VA 190	810142501, 810143501, 910142700BE, 910143700BE, 910142700, 910143700, 710142700, 710143700, 910143700V2A
AVERO Comfort / AVERO Comfort Fix	910609000, 910609001, 910609002, 910609011, 910609012, 910609030, 910609040, 910305000, 910305030, 910305040, 910306000, 910306030, 910306040, 710609000
AVERO VIVA / AVERO VIVA plus	910208500, 910208600
COMPACT / COMPACT plus / COMPACT Solo	910443000, 910443100, 910443200, 910443300, 910444000, 910444100, 910444200, 910444300, 910440000, 910440100, 910440200, 910440300, 910441000, 910441100, 910441200, 910441300, 910442000, 910442100
INVITA / INVITA Basic	910150800, 910150860, 910150700, 910150730

den grundlegenden Sicherheits- und Leistungsanforderungen entsprechen und die Voraussetzungen für die CE-Kennzeichnung erfüllen
comply with the general safety and performance requirements and fulfill the provisions of CE marking

Die Produkte & deren Zubehöre entsprechen Klasse I, Verordnung (EU) Medizinprodukte 2017/745, Anhang VIII, Kapitel III, Regel 13
The products & their accessories correspond with Class I, Regulation (EU) Medical Devices 2017/745, Annex VIII, Chapter III, Rule 13

Produktrealisierung und Prüfung gemäß den folgenden Normen und Richtlinien:

Testing according to the following standards and directives:

Verordnung (EU) „Medizinprodukte“ 2017/745 Regulation (EU) „Medical Devices“ 2017/745, MDR	DIN EN 60601-1:2006 + Cor.:2010 + A1:2013 * IEC 60601-1:2005 + Cor.:2006 + Cor.:2007 + A1:2012 * UL 60601-1:2003 * / UL60601-1 (Ed.1):2006 *
DIN EN 12182:2012 / EN 12182:2012 DIN EN ISO 10535:2007 / ISO 10535:2006 *	ANSI/AAMI ES60601-1:2005/(R)2012 * CAN/CSA-C22.2 No. 60601-1:14 * / CSA-C22.2 No. 218.2-15 *
DIN EN ISO 12100:2011 & Berichtigung 1:2013 / ISO 12100:2010	DIN EN 60601-1-2:2016 / IEC 60601-1-2:2014
CSA-B45.5-11 / IAPMO Z124-2011 *	DIN EN 60601-1-6:2021 / IEC 60601-1-6:2010 + A1:2013 + A2:2020 *
DIN EN 1717:2011 / EN 1717:2011 DIN 1988-100:2011 / DVGW code of practice - Part 100	DIN EN 62366-1:2021 / IEC 62366-1:2015 + COR1:2016 + A1:2020 *
RoHS Richtlinie / Directive 2011/65/EU & 2015/863/EU REACH Verordnung / Regulation EU 1907/2006	DIN EN ISO 14971:2020 / ISO 14971:2019
Richtlinie / Directive 2012/19/EU - WEEE:2012-07-04	DIN EN ISO 10993-1:2021 / ISO 10993-1:2018
EN ISO 15223-1:2022-02	ISO 20417:2021-04
DIN EN ISO 13485:2021-12	

Diese Erklärung trifft auf alle Produkte zu, die nach Ausstellung dieser Erklärung produziert wurden, bis sie durch eine andere Erklärung ersetzt wird. / This declaration applies to all CE marked devices manufactured from the date of its issuance on until it is either superseded by another declaration or withdrawn.

Technische Änderungen vorbehalten / Technical changes reserved

*: CSA, Lab Test & EMC Testhaus Certificate for specific article numbers

Wetzlar, den 13.11.2025



Robert Deschler
Geschäftsführer / Managing Director

BEKA Hospitec GmbH
Am Rübenmorgen 3
D-35582 Wetzlar-Dutenhofen
Fon 0641 / 92 22 0-0
Fax 0641 / 92 22 0-20

USt.-IdNr.: DE278603356
Amtsgericht Wetzlar, HRB 6207
info@beka-hospitec.de
www.beka-hospitec.de

Geschäftsführung
James Stuart-Smith
Robert Deschler

Commerzbank AG Wetzlar
Konto-Nr.: 482176500
BLZ: 515 400 37
IBAN: DE60515400370482176500
SWIFT-BIC: COBADEFF515

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EU-Konformitätserklärung / EU-Declaration of Conformity

Der Hersteller / The manufacturer

BEKA Hospitec GmbH, Am Rübenmorgen 3, D-35582 Wetzlar-Dutenhofen
SRN: DE-MF-000013895

erklärt in alleiniger Verantwortung gemäß Verordnung (EU) Medizinprodukte 2017/745 des Europäischen Parlaments und des Rates vom 5. April 2017 über Medizinprodukte MDR, Kapitel V, Abschnitt 2, Artikel 52, Unterabsatz 7, dass die folgenden

BEKA Zubehöre für Pflegebadewannen

declares under sole responsibility according to the Regulation (EU) Medical Devices 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices MDR, Chapter V, Section 2, Article 52, subparagraph 7, that the following

BEKA Accessories for Care Bathtubs
Basis-UDI-DI: 426068189122BR

Zubehör / Accessories	Artikel Nr. / P/N.	Zubehör / Accessories	Artikel Nr. / P/N.
Ablauf / Drain adjustment	910150582	Legionellenspülung / Thermal disinfection	910145150
Aromasystem / Aroma system	810150579, 910150579, 910609150	Montagekit / Installation kit	910609010, 910131900, 910143100, 910150850, 910445000
Bedienfolie / Foil panel	910609670, 910609660, 910609675, 910609665	Nackenkissen / Neck cushion	910210000, 910150565
Blickrichtungsänderung / Changing view into the room	910609100	Notfunktion / Emergency function	810150587, 910150587, 910609250
Desinfektionssystem / Disinfection system	810131200, 810150580, 810150585, 810328001, 910131200, 910144700, 910150580, 910150585, 910329001	Paneele / Panel	910434200, 910434150, 910434140, 910434190, 910434180, 910434130, 910434120, 910434170, 910434160, 910434110, 910434100
Einbaurahmen / Mounting frame	910150595	Soundsystem / Soundsystem	910131400, 910150572, 910434270, 910609500, 810131400, 810150572, 910434273, 910609550
Einstiegstreppe / Entry stairs	090303100, 090303000, 090302000	Sperrfunktion Desinfektion / Disinfection blocking function	810328100, 910144710
Fahrwagen / Trolley	910434310	Temperaturanzeige / Temperature display	910146000, 910144720, 810146100
Farblichtsyste / Color-light system	810150575, 810150576, 910131600, 910150575, 910150576, 910609600, 910434280, 810131600	Thermostat / Thermostat	910145120, 910151300
Gantrysystem / Gantry system	910434000	Toilettensitz / Commode seat	910434081, 910434082
Haltegriff / Safety grab bar	910303000	Verbrühschutz / Scalding protection	910144730, 810145350
Handbrause / Hand shower	910150586, 810328200, 910144740	Wannenfarbe RAL / Charge for additional tub color according to RAL	910131700, 910145800, 910145900, 910609700
Hebevorrichtung / Lifting device	910604000	Wannenverkürzer / Tub shortener	090304000, 810609200, 910145501, 910609210, 910609200
Heizung / Heater	090318250V2A	Wasseranschluss / Water connection	910150594, 910150598, 910150597, 910150597P1, 910150597P2, 910150599, 910150596
Kabelfernbedienung / Hand control	810150555, 910150555	Wasserstopp / Water filling	910131300, 910150560, 910150561, 910609300, 810131300, 810150560, 810150561, 910434275
Kopfstütze / Head support	090306000, 090306100	Set Wasserstopp und Handbrause / Set Water filling and hand shower	910604300, 910604400
Luftperibadsystem / Air Spa system	81045310, 810131500, 810150570, 810150571, 910131500, 910434060, 910131550, 910150570, 910150571, 910150830, 910609400, 090734010, 090734000, 090733110, 090733000		

BEKA Hospitec GmbH
Am Rübenmorgen 3
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USt-IdNr.: DE278603356
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Geschäftsführung
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IBAN: DE60515400370482176500
SWIFT-BIC: COBADEFF515

den grundlegenden Sicherheits- und Leistungsanforderungen entsprechen und die Voraussetzungen für die CE-Kennzeichnung erfüllen
comply with the general safety and performance requirements and fulfill the provisions of CE marking

Die Produkte & deren Zubehör entsprechen Klasse I, Verordnung (EU) Medizinprodukte 2017/745, Anhang VIII, Kapitel III, Regel 1&13
The products & their accessories correspond with Class I, Regulation (EU) Medical Devices 2017/745, Annex VIII, Chapter III, Rule 1&13

Produktrealisierung und Prüfung gemäß den folgenden Normen und Richtlinien:

Testing according to the following standards and directives:

Verordnung (EU) „Medizinprodukte“ 2017/745 Regulation (EU) "Medical Devices" 2017/745, MDR	DIN EN 60601-1:2006 + Cor.:2010 + A1:2013 * IEC 60601-1:2005 + Cor.:2006 + Cor.:2007 + A1:2012 * UL 60601-1:2003 * / UL60601-1 (Ed.1):2006 *
DIN EN 12182:2012 / EN 12182:2012 DIN EN ISO 10535:2007 / ISO 10535:2006 *	ANSI/AAMI AES60601-1:2005/(R)2012 * CAN/CSA-C22.2 No. 60601-1:14 * / CSA-C22.2 No. 218.2-15 *
DIN EN ISO 12100:2011 & Berichtigung 1:2013 / ISO 12100:2010	DIN EN 60601-1-2:2016 / IEC 60601-1-2:2014
CSA-B45.5-11 / IAPMO Z124-2011 *	DIN EN 60601-1-6:2021 / IEC 60601-1-6:2010 + A1:2013 + A2:2020 *
DIN EN 1717:2011 / EN 1717:2011 DIN 1988-100:2011 / DVGW code of practice - Part 100	DIN EN 62366-1:2021 / IEC 62366-1:2015 + COR1:2016 + A1:2020 *
RoHS Richtlinie / Directive 2011/65/EU & 2015/863/EU REACH Verordnung / Regulation EU 1907/2006	DIN EN ISO 14971:2020 / ISO 14971:2019
Richtlinie / Directive 2012/19/EU - WEEE:2012-07-04	DIN EN ISO 10993-1:2021 / ISO 10993-1:2018
EN ISO 15223-1:2022-02	ISO 20417:2021-04
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Technische Änderungen vorbehalten / Technical changes reserved

*: CSA Certificate for Canada and USA for specific article numbers

Wetzlar, den 13.11.2025



Robert Deschler
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13.5 Accessories

AVERO Motion		AVERO Motion E	
910150560	Automatic water stop	910150561	Automatic water stop
910609550	Bluetooth System Music sound system	910609550	Bluetooth System Music sound system
910150572	Music sound system	910150572	Music sound system
910150570	Air spa	910150571	Air spa
910150579	Aroma system	910150579	Aroma system
910150575	Color light system	910150576	Color light system
910150585	Cleaning system	910150580	Cleaning system
910150582	Change water drainage	910150582	Change water drainage
910150586	Second showerhead holder	910150586	Second showerhead holder
910150587	Emergency function in case of power failure	910150587	Emergency function in case of power failure
910150555	Manual operation	910145150	Legionella flushing option by installing the Grohe Grohtherm Spezial thermostat

Spare parts and consumables are available upon request from your BEKA Hospitec distributor or directly from the manufacturer.

Please note:

You cannot change all parts yourself.

The installation may require the expertise of a trained specialist in electrical / plumbing.

13.6 Assembly Instructions

13.6.1 Changing the handheld shower

Picture 1:

The picture shows the handheld shower with a threaded shower hose.



Picture 2:

Unscrew the union nut from the shower hose.



Picture 3:

The picture shows the unscrewed handheld shower.



Assembly of the handheld shower is done in the reverse order!

13.6.2 Changing the shower hose

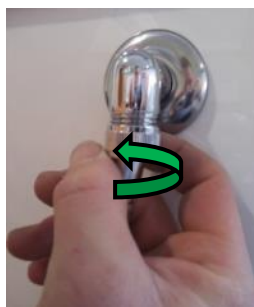
Picture 1 und 2:

Pictures 1 and 2 show the shower hose as well as the elbow fitting on the tub.



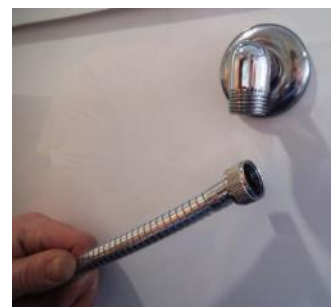
Picture 3:

Unscrew the shower hose from the elbow fitting on the tub.



Picture 4:

The picture shows the shower hose unscrewed from the elbow fitting



Assembly of the shower hose is done in the reverse order!

13.6.3 Changing the handheld shower holder

Picture 1:
Tool required:
1 x 2.5 mm Allen
wrench



Picture 2:
The picture shows
the handheld
shower holder
with stud bolt.



Picture 3:
Loosen the stud
bolt from the
handheld shower
holder



Picture 4:
The picture shows
the stud bolt
loosened from the
handheld shower
holder.



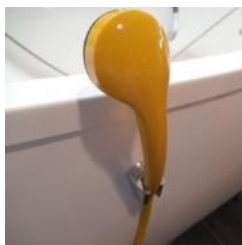
Picture 5:
Now remove the
holder from the
handheld shower
and replace with a
new one.



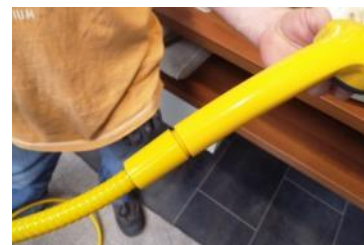
Assembly of the handheld shower holder is done in the reverse order!

13.6.4 Changing the disinfectant shower head

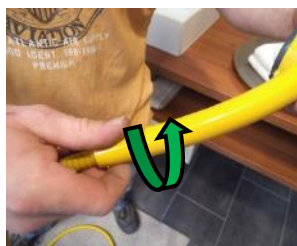
Picture 1:
The picture
shows the
disinfectant
shower head



Picture 2:
Remove the
disinfectant
shower head
from the holder



Picture 3:
Unscrew the unit
screw from the
disinfectant hose.



Picture 4:
The picture
shows the
unscrewed
disinfectant hose
unscrewed from
the disinfectant
shower head.



Assembly of the handheld disinfectant shower head is done in the reverse order!

13.6.5 Changing the disinfectant hose

Picture 1:

The picture shows the disinfectant hose as well as the elbow fitting on the tub.



Picture 2:

Unscrew the disinfectant hose from the elbow fitting.



Picture 3:

The picture shows the unscrewed disinfectant hose.



Assembly of the disinfectant hose is done in the reverse order!

13.6.6 Changing the eccentric screw fittings (drainage and overflow)

Picture 1:

The picture shows the eccentric cover.



Picture 2:

To loosen the cover, pull it in an upward direction.



Picture 3:

The picture shows the removed cover.



Picture 4:

The rotary actuation must be positioned horizontally (Viega logo must be recognizable) before the drip plug can be loosened.



Picture 5:

Bring the eccentric plugs to an upright position.



Picture 6:

The upward pulling motion allows the removal of the eccentric plugs.



Picture 7:

The picture shows the removed eccentric plugs



Warning:

When fitting the drip plug into its casing, ensure it is correctly locked.

Assembly of the drip plugs is done in the reverse order.

13.7 Electromagnetic Compatibility

Electrical medical equipment is subject to special precautionary measures with regard to EMC and must be installed and operated in accordance with the EMC instructions included in the accompanying documents.

For the devices and systems from BEKA Hospitec GmbH, no special measures must be observed.

Portable and mobile HF-communications equipment can interfere with electrical medical equipment.

Guidance and manufacturer's declaration - electromagnetic immunity (Table 201)		
The AVERO Motion been designed for use in the hereafter listed ELECTROMAGNETIC ENVIRONMENTS. The customer or the user of the AVERO Motion must ensure that the appliance is used in such environment.		
Emission measurements	Compliance	Electromagnetic environment - guidelines
High-frequency (HF) emissions to CISPR 11	Group 1	The AVERO Motion uses HF radiation exclusively for internal functions. Therefore, the HF radiation of the device is very low and any interference with adjacent electrical equipment is unlikely.
High-frequency (HF) emissions to CISPR 11	Class B	AVERO Motion is intended for use in any type of facility including living quarters and those that are directly connected to a public mains network that supplies residential buildings and buildings used for domestic purposes.
Harmonics to IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker to IEC 61000-3-3	Compliant	

Guidance and manufacturer's declaration - electromagnetic immunity (Table 202)			
The AVERO Motion been designed for use in the hereafter listed ELECTROMAGNETIC ENVIRONMENTS. The customer or the user of the AVERO Motion must ensure that the appliance is used in such environment.			
Immunity testing	IEC 60601- Test level	Compliance level	Electromagnetic environment guidance
Discharging of static electricity (ESD) to IEC 61000-4-2	± 6kV contact discharge ± 8kV air discharge	± 6kV contact discharge ± 8kV air discharge	The floor must be in wood, concrete or ceramic tiles. In case of floors in synthetic material, the relevant air humidity must be at least 30%.
Rapid transient interference pulses/burst IEC 61000-4-4	± 2 kV for power supply cables ± 1 kV for input/output cables	± 2 kV for power supply cables not applicable to input/output cables	The quality of the supply voltage should match that of a typical business or hospital environment.
Overvoltage IEC 61000-4-5	±1 kV cable against cable ±2 kV cable against ground connection	±1 kV cable against cable ±2 kV cable against ground connection	The quality of the supply voltage should match that of a typical business or hospital environment.
Voltage drops, short interruptions and voltage fluctuations in the power supply input cables IEC 61000-4-11	<5 % U_T (>95 % drop of U_T) for 0.5 period <40 % U_T (>60 % drop of U_T) for 5 periods <70 % U_T (>30 % drop of U_T) for 25 periods <5 % U_T (>95 % drop of U_T) for 5 s	<5 % U_T (>95 % drop of U_T) for 0.5 period <40 % U_T (>60 % drop of U_T) for 5 periods <70 % U_T (>30 % drop of U_T) for 25 periods <5 % U_T (>95 % drop of U_T) for 5s	The quality of the supply voltage should match that of a typical business or hospital environment.
Current frequency (50/60 Hz) Magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical business or hospital environment.
CAUTION U_T is the mains AC voltage before the application of the test level.			

Guidance and manufacturer's declaration - electromagnetic immunity (Table 204)			
The AVERO Motion been designed for use in the hereafter listed electromagnetic environments. The customer or the user of the AVERO Motion must ensure that the appliance is used in such environment.			
Immunity testing	IEC 60601-Test level	Compliance level	Electromagnetic environment guidance
Conducted HF IEC 61000-4-6	3 Vrms 150 kHz up to 80 MHz	10 Vrms	Portable and mobile HF communications equipment should be used no closer to any part of the AVERO Motion including cables, than the recommended separation distance calculated in accordance with the equation applicable to the frequency of the transmitter.
Radiation HF IEC 61000-4-3	3 V/m 80 MHz up to 2.5 GHz	3 V/m	Recommended separation distance $d=0.35\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz up to 800 MHz $d=2.3\sqrt{P}$ 800 MHz up to 2.5 GHz With P as the rated output of the transmitter in Watt (W) in accordance with the manufacturer's specifications and d as the recommended separation distance in meter (m). The field strength of fixed HF-transmitters as determined by an electromagnetic field survey, ^a – should be less than the COMPLIANCE LEVEL in each frequency range. ^b In the vicinity of equipment marked with the following symbol, interference may occur: 
NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2: This manual could possibly not apply to all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people. ^a The field strength of fixed RF transmitters, such as base stations of mobile phones and land mobile radios, amateur radio stations, AM and FM radios as well as radio and television broadcast media cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey is recommended. If the field strength measured in the environment where the AVERO Motion is to be used, exceeds the applicable HF compliance level, special care should be taken that a normal operation of the AVERO Motion can be guaranteed. In case anomalies are identified, additional measures could be required, such as a different alignment or a change of the location of the AVERO Motion. ^b In the frequency range from 150 kHz to 80 MHz, the field strength must be less than 10 V/m.			

Recommended distance between portable and mobile communications equipment and the AVERO Motion (Table 206)

The AVERO Motion is intended for use in an electromagnetic environment with controlled HF interferences. The customer or the user of the AVERO Motion can avoid electromagnetic interference by respecting and observing the minimum distance between portable and mobile HF telecommunication devices (transmitters) and the AVERO Motion depending on the rated output of the communication device as given below.

Rated output of the transmitter W	Separation distance depending on the transmitting frequency in m		
	150 kHz to 800 MHz $d=0.35\sqrt{P}$	80 MHz to 800 MHz $d=1.2\sqrt{P}$	800 MHz to 2.5 GHz $d=2.3\sqrt{P}$
0.01	0.04	0.12	0.23
0.1	0.11	0.38	0.73
1	0.35	1.2	2.3
10	1.1	3.8	7.3
100	3.5	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be determined using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the specifications given by the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines could not apply to all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

13.8 Journal

According the Medical Device Directive, you are compelled to keep a journal for this device. You can use this journal as template.

Journal

Device: AVERO Motion / AVERO Motion E

Manufacturer: BEKA Hospitec GmbH, Am Rübenmorgen 3, 35582 Wetzlar

Serial number: _____

Date of purchase: _____

Site: _____

Checks and inspection conducted upon the first use:

Date: _____

Evidence of the training session on the functions and the use of the product

Instructor		Trained person	
Name	Date	Name	Signature

[illegible]



BEKA Hospitec GmbH

Am Rübenmorgen 3

D – 35582 Wetzlar-Dutenhofen

Tel: +49 641 922 20 – 0

Fax: +49 641 922 20 – 20

Email: info@beka-hospitec.de

Web: www.beka-hospitec.com

