

Operating manual

for

Lifting tub AVERO Comfort

Part No. 910609000

Lifting tub AVERO Comfort UK

Part No. 910609001 without handle

Part No. 910609002 with handle



Illustration shows
AVERO Comfort
Part No. 910609000

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1. Preface

Dear customer,

we would like to congratulate you on the purchase of a medical product from BEKA Hospitec. Please observe the following points:

1. Please read this manual carefully.
2. Please use this device only for the purpose it is designed for.
3. The operation of this device is only allowed by trained staff.
4. Electric installation must be carried out by authorized technicians according to the local rules of your country.
5. Maintenance and safety checks must be carried out by BEKA Hospitec or by companies authorized by BEKA Hospitec.
6. Additional set ups, changes or repairs must be carried out by BEKA Hospitec or by companies authorized by BEKA Hospitec.
We do not take any liability for additional set ups, changes or repairs as well as for the product or product functions, if they were carried out by non-authorized companies.

Liability and warranty

The manufacturer of this device is only responsible for the security and reliability of this device, if:

- a. the installation has been performed by authorized technicians,
- b. the room installation have been performed according to the local rules for electric installation for wet rooms,
- c. the device is only used for the purpose it is made for,
- d. functionality checks are carried out on a regular basis.

2. Introduction

2.1 Intended use

The lifting tub AVERO Comfort is used for bathing and care of dependent persons in hospitals and nursing homes. By the height adjustment the lifting tub AVERO Comfort can be easily and individual adjusted by each nurse.

2.2 Duration of treatment

The length of a treatment unit with the lifting tub AVERO Comfort is predetermined with **max. 30 minutes**.

Notice

Side effects of treatment are not known.

Please observe the contraindications in section 2.4 **Fehler! Verweisquelle konnte nicht gefunden werden.**

2.3 Typical indications

The lifting tub AVERO Comfort is designed for bathing and care of dependent persons in hospitals and nursing homes.

2.4 Contraindications

Pregnant women should not be treated with the lifting tub AVERO Comfort.

CAUTION:



Patients with:

- Heart disease / Heart-circulation disorders
- Tumor in the treatment area
- Leukemia
- AIDS
- open sore
- acute attack of rheumatism

are only allowed to be treated with the lifting tub AVERO Comfort, after consulting their physician.

2.5 Safety risk and possible danger to the device

WARNUNG:



Patients with active implants such as infusion or insulin pump, as well as patients with febrile states, inflammatory skin diseases are not allowed to be treated with the lifting tub AVERO Comfort.

There should be a warning sign clearly visible in the access area of the treatment room.

Observe also the safety instructions in the following section.

3. Safety instructions



Please read before the initial operation of the lifting tub AVERO Comfort the following safety instructions. All instructions and warnings on the product and in this manual must be obeyed. For errors or damages caused by improper operation or handling, the manufacturer BEKA Hospitec GmbH accepts no liability.

- **Operating manual**



Read the operating manual and safety instructions before the initial operation of the device. Keep the operating manual for later use close to the device.

- The device is only allowed to be used and operated by trained staff.
- Before each use, check that all parts are undamaged; in case parts are damaged, the tub may not be used.
- Before each treatment the water temperature has to be checked.
- After each treatment the device must be disinfected according to instructions.
- Always make sure that your feet are located next to the tub before and during the height adjustment.
- Please observe, that your feet are always, before and during height adjustment, next to the tub.
- The operator must make sure, that in the area below and above the tub no obstacles are placed, which could restrain the free up and down movement.
- During operation no staying between tub and an obstacle.
- The bath tub is only allowed to be used for the described purpose it is made for.
- Make sure, that the power supply is always turned on during the treatment.
- The operator must check before each treatment, that the device is in a safe and proper condition (e.g. check by sight, function of the temperature control, etc.).
- Check monthly the pressure hoses for leaks, the connections for tight fit and the electrical connection (current and potential equalization) for cracks in the cable.
- Units that are operated jointly with medical electrical bathing facilities (e.g. devices for underwater massages, devices for circulation, patient lifting devices), must be in accordance with the provisions for protection against the risk of electric shock according to the standard E VDE 0750 part 224.
- The device is not approved to be used in hazardous areas.
- The device is not approved to be used in explosion-prone areas.
- The treatment should only be performed under supervision.
- The nursing staff must protect the skin and eyes from concentrated disinfection and cleaning fluids. Please observe the operating instructions of the resp. disinfection fluid.
- **Adjustable tub shortener**
The tub shortener must be respectively inserted into the opposing guides.
- **Control unit**
The control unit is only allowed to be operated by authorized and briefed persons.
- **Connection power supply**

The connection of the power supply unit to the electrical power supply has to be performed by a licensed electrician. The currently valid VDE regulations and rules and regulations of the resp. country must be observed.

- **EMC**

A simultaneous use of short-wave or microwave therapy devices in the immediate vicinity is not permitted, in order to prevent an electromagnetic influencing (EMC) of the control unit. Mobile phone can also cause an influence.

- **Ventilation**

Please never cover, stick something over or alter slots and openings on the device.

- **Cable routing**



Lay the power and the connection cords in such a way that they cannot be damaged. A damaged power cord can cause a fire or risk of electric shock and may not be used.

- **Customer service**

In case the device is not working correctly anymore and if no measures described in section 10.1 help, detach the device from the power supply and get in touch with the customer support of your BEKA sales partner or the manufacturer:



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CAUTION:

Do not operate or store any devices that can be influenced by moisture near the lifting tub AVERO Comfort.

- **Electric motor**

The electric motor is equipped with an overload protection, which cuts off automatically at overload. Only after a short delay (10-20 minutes) the electric motor is ready for use again.

Opening the motor will result in that the warranty expires along with all liability claims.

- **Cleaning**

To clean the lifting tub AVERO Comfort please do not use any aerosol cleaners. You will find instructions on how to clean and disinfect the device in section 7.

- **Repair**

Repairing parts of the lifting tub AVERO Comfort is only permitted to be carried out by trained professional personnel. Please always get in touch with your customer service. Opening the device or the accessories will result in that the warranty expires along with all liability claims.

- **Duty of care**

Before use, make sure that the system is in a proper state and that all functions are safe to use. Please never insert any foreign body into the device. This amounts to a safety risk and cause a life-threatening electrical shock or damages in the device.

- **Safety checks**

The safety checks and maintenance have to be performed regularly. The intervals are determined in section 9.

- **Accessories**

Only operate the lifting tub AVERO Comfort with original accessories.

WARNING:

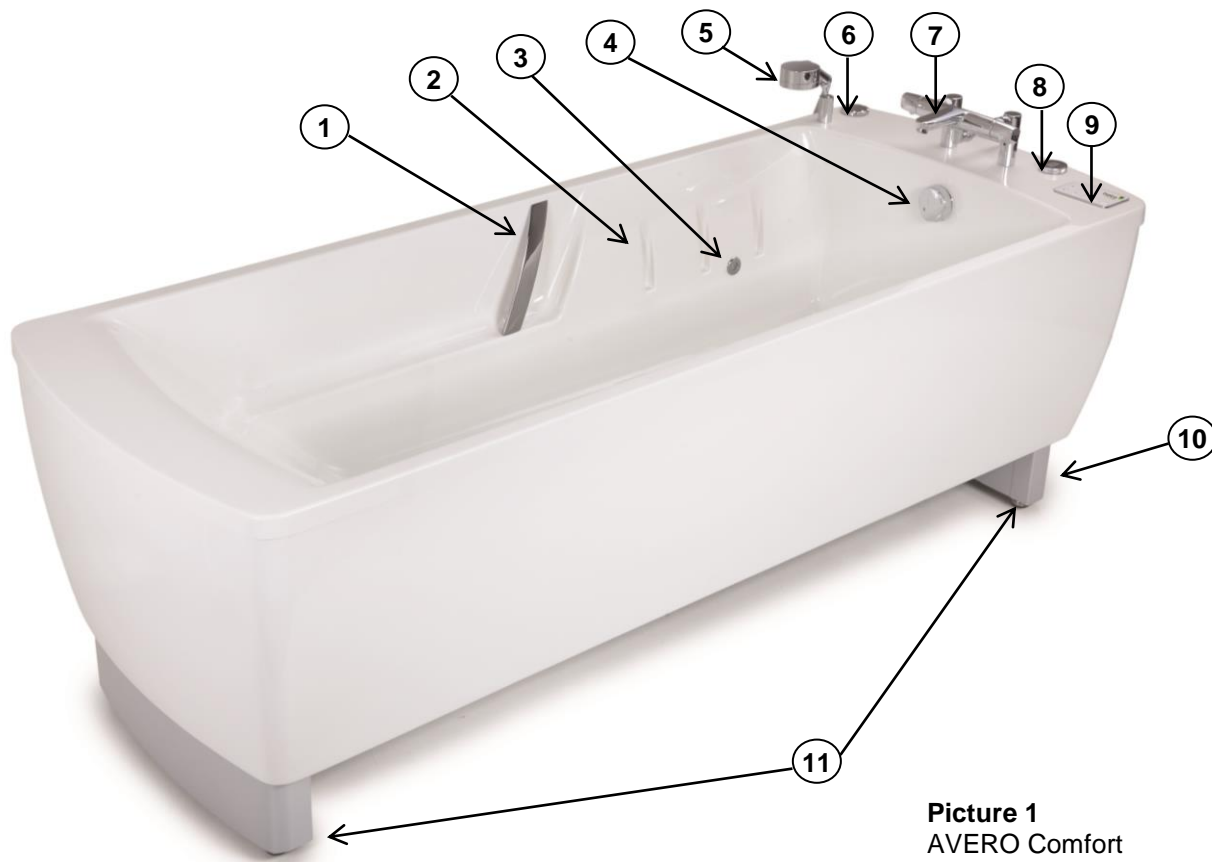
Any unauthorized repair, rebuilding's and changes are forbidden for safety reasons and exclude a liability of the manufacturer for the damages resulting from it.

For the damages which result from the use of spare parts not released by the manufacturers or accessories every other liability of the manufacturer is excluded.



4. Operating elements lifting tub AVERO Comfort

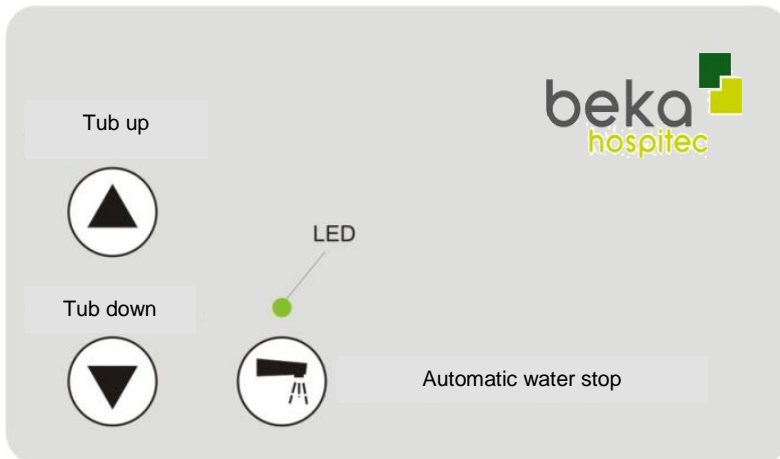
4.1 Assemblies AVERO Comfort



Picture 1
AVERO Comfort

Pos. No.	Description	Pos. No.	Description
1	Handle	7	Valve tub filling
2	Guide for tub shortener	8	USB for sound system
3	Coloured light therapy	9	Keypad
4	Overflow	10	Type label
5	Hand shower	11	Lifting system
6	Aroma therapy system	–	–

4.2 Keypad 3-keys



Picture 2
Keypad 3-keys
AVERO Comfort

4.3 Inside view tub body with tub shortener



Picture 3
Inside view tub body with tub shortener

4.4 Type label



Picture 4
Illustration shows the type label.
The type plate is placed on the side of the pult.
The shown serial number 468.45.11 is an example. Please indicate in case of questions always the serial number of the type plate of your device.

4.5 Automatic tub filling

The lifting tubs AVERO Comfort, which have been equipped with the automatic tub filling, have the same feature like the version with manual filling, with the exception of the thermostatic mixer. The automatic filling is started by pushing the key “**automatic water stopp**” on the control unit. It will stopp automatically as soon as the water level has reached its maximum height (approx. 2 cm beneath the overflow).

The hand shower for the patient is always operated manually.

5. Installation

Dear customer,

- Please have, before the initial operation of our devices, your electrical installation checked according to the valid VDE regulations 0100 and 0750 and to the rules and regulation of your country.
- According to the above regulations you must repeat the check-up in adequate time intervals. The results of this check-up has to be written down into a inspection certificate.
- As the operator of this device, you must have the function of the residual current circuit breaker checked regularly. Please ask your local authorized electrician.
- Those safety checks are necessary for the safety of your patients and for your own safety.
- This device is not allowed to be operated in harzardous areas.
- This device is only allowed to be operated in medical used rooms (according to VDE 0100).
- Maintenance of the device are only allowed to be carried out by us or by one of us expressly authorized person, otherwhile the warranty will be invalidate.
- The water-side connection to the AVERO Comfort has to be performed in accordance with the technical drawings of BEKA Hospitec resp. the guidelines for the installation of wet rooms and the current VDE standards.
- All inlet and outlet hoses must be routed so that no danger of stumbling exists.
- Before installing the tub the connecting lines (hot and cold water pipes) must be adequately flushed.

5.1 To be observed before the initial operation

CAUTION:



The device may only be used in accordance with the accompanying documents.

Only under this premise, the manufacturer is responsible for the impact on the safety, reliability and performance of the device.

If the lifting tub AVERO Comfort is connected for the first time or re-connected, the technical data have to be observed.

WARNING:



To prevent scalding, the hot / cold water mixing device must be calibrated before initial commissioning, according to the on-site water supply / set. It must be prepared a calibration plan by the responsible person.

NOTICE:

In order to ensure reliable functioning and safe operation, we recommend regular maintenance with calibration of the thermostat mixer. This must be done by a qualified technician. Putting up the AVERO Comfort tub in another room or changes to the local water supply may require a recalibration of the thermostatic mixer.

5.2 Electrical system

Connection to the power supply network:

When connecting the device to a power supply network the specific national provisions must be observed (e.g. in Germany DIN VDE 0100-710).

The AVERO Comfort is connected by means of a distribution box IP X4, 230 V AC/50 Hz, 3x1.5 mm², 1.5 KW, 16 ampere, FI-safety switch 30 mA potential equalisation according to DIN VDE 0107.

Please note that the connection must be performed by a qualified electrician.

Earth wire:

When using devices of protection class I, the quality of the protective conductor of the installation is important. It is important to ensure that, in many countries by national authorities requirements are specified.

6. Operating of the lifting tub AVERO Comfort

The lifting tub AVERO Comfort is an ergonomically shaped nursing tub made out of GRP-material without pult and with a completely closed outside panelling. The drive is effected by two synchronized lifting columns. The height adjustment can be unlimited chosen between 680-1.080 mm and is operated by a keypad. The tub is free accessible from two sides and suitable for the application of lifts. The tub inside is ergonomically shaped and offers, with the integrated arm rests and the shaped back part, safe but nevertheless comfortable ergonomics. Integrated safety handles provide for support for the person in need of care during getting in and out of the tub. At the tub inside additionally insertion slots for the intake of a tub shortener are integrated.

If your tub is equipped with a thermostatic mixer for manual filling, open up the feed cock on the thermostatic mixer. If the water has reached the desired level inside the tub, close the feed cock afterwards.

If your tub is equipped with a thermostatic mixer with automatic water filling, push the key **“automatic water stopp”** on the control panel to start the filling. If the water has reached the desired level, the filling is stopped automatically.

Please pay attention to the fact, that before the patient enters the tub, the water temperature has to be checked with the hand or with a thermometer.

Wheelchair patients can easily be lifted with mobile lift systems, ceiling lifts or stand-up lifts into the lifting tub AVERO Comfort.

The large opening below the tub allows direct access to virtually every lift system.

In order to bring the patient to the desired position, push one of the buttons (up / down) of the keypad, to activate the height adjustment.

Based on the height and the wish of the patient, one can add water to cover up the shoulders.

If the treatment is finished, turn the pop-up valve (overflow), to drain the water.

You can start to towel the patient, when he still sits comfortably in the tub.

Now help the patient to exit the tub or use a lifting system to transfer the patient to the wheel chair.

Please make sure, that the tub is always disinfected and rinsed, before you use it again for the next patient.

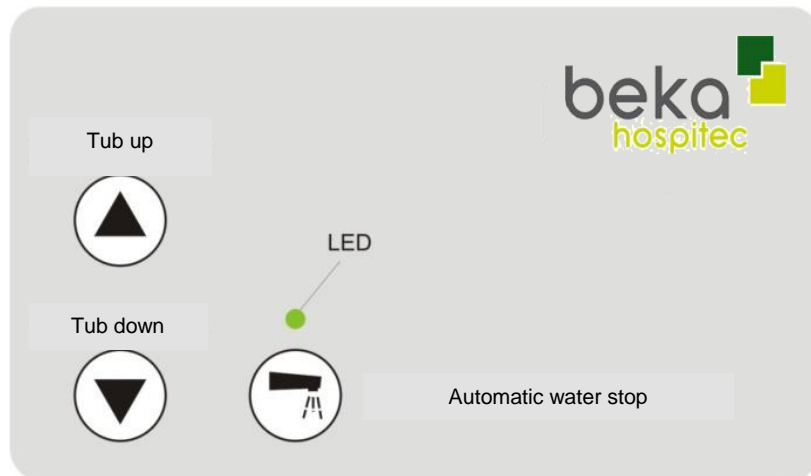
For the disinfection, you can use e.g. the hygienic-wall shower-panel D from BEKA Hospitec (**Order number: 930505050**).

6.1 Operation control unit and keypad 3-keys

The automatic tub filling is controlled by a capacitor water sensor. By the build-in keypad, each function can be turned on and is indicated by LEDs.

The operation is effected by 3 keys, the function control by 1 LED.

The control unit with keys and LEDs is placed on the tub rim.



Lifting function:

By the key „**tub up**“ and „**tub down**“ the tub is adjusted to the individual height. If the key „**tub up**“ is pushed, the tub moves upwards. If the key „**tub down**“ is pushed, then the tub moves down.

Filling:

By the key „**automatic water stopp**“ the filling of the tub can be started or stopped. The function is shown by the LED „filling“. There are the following options:

Option STANDBY:

The LED flashes green (1 second on, 1 second off). With the key „**automatic water stopp**“ the filling (option FILLING) can be started.

If the water sensor of the automatic filling indicates, that the tub is filled, the control switches to the option FULL.

Option FILLING:

The LED lights constantly green. The filling is in process. With the key „**automatic water stopp**“ the filling can be interrupted, the control switches in this case to the option STANDBY. If the water sensor of the automatic filling signals at least for 15 seconds, that the tub is filled, the control switches to the option FULL.

Option FULL:

The LED lights constantly red. The tub is sufficiently filled. With the key „**automatic water stopp**“ the option FULL can be confirmed. The control switches to the option CONFIRMED. If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

Option CONFIRMED:

The LED flashes green (1 second on, 1 second off). With the key „**automatic water stopp**“ the additional filling option can be started (option ADDITIONAL FILLING). The control switches to the option ADDITIONAL FILLING. If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

Option ADDITIONAL FILLING:

The LED lights constantly green. The additional filling option is in process. With the key „**automatic water stopp**“ the option ADDITIONAL FILLING can be interrupted, the control switches in this case to the option CONFIRMED. The option additional filling is not controlled by the water sensor, because the water sensor already signals FULL! If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

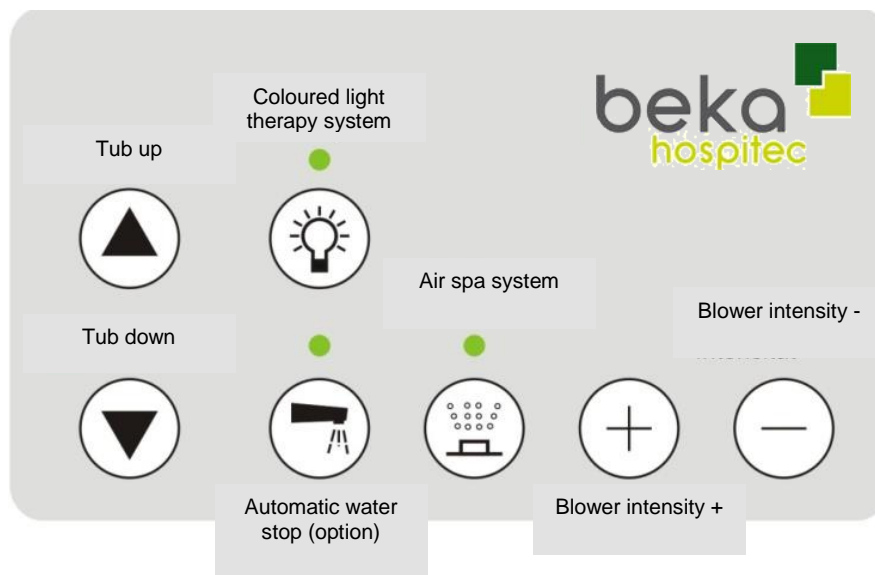
6.2 Operation control unit and keypad 7-keys

Additionally to the standard function „up/down“ of the tub, the air spa system, the LED colored lights and the automatic tub filling can be activated with this control unit.

The water level of the tub is controlled by a capacitor water sensor.

By this sensor the function afterblow is controlled.

The automatic tub filling is also controlled by the capacitor water sensor. The colored lights can be activated independently from the water level. By this keypad each option is activated and the resp. function is indicated by LEDs.



Lifting function:

By the key „**tub up**“ and „**tub down**“ the tub is adjusted to the individual height. If the key „**tub up**“ is pushed, the tub moves upwards. If the key „**tub down**“ is pushed, then the tub moves down.

Filling:

By the key „**automatic water stopp**“ the filling of the tub can be started or stopped. The function is shown by the LED „filling“. There are the following options:

Option STANDBY:

The LED flashes green (1 second on, 1 second off). With the key „**automatic water stopp**“ the filling (option FILLING) can be started. If the water sensor of the automatic filling indicates, that the tub is filled, the control switches to the option FULL.

Option FILLING:

The LED lights constantly green. The filling is in process. With the key „**automatic water stopp**“ the filling can be interrupted, the control switches in this case to the option STANDBY. If the water sensor of the automatic filling signals at least for 15 seconds, that the tub is filled, the control switches to the option FULL.

Option FULL:

The LED lights constantly red. The tub is sufficiently filled. With the key „**automatic water stopp**“ the option FULL can be confirmed. The control switches to the option CONFIRMED. If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

Option CONFIRMED:

The LED flashes green (1 second on, 1 second off). With the key „**automatic water stopp**“ the additional filling option can be started (option ADDITIONAL FILLING). The control switches to the option ADDITIONAL FILLING. If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

Option ADDITIONAL FILLING:

The LED lights constantly green. The additional filling option is in process. With the key „**automatic water stopp**“ the option additional filling can be interrupted, the control switches in this case to the option CONFIRMED. The option additional filling is not controlled by the water sensor, because the water sensor already signals FULL! If the water sensor of the automatic filling signals that the tub is not filled anymore, the control switches to the option STANDBY.

Blower:

The blower can be started and turned off with the key blower „**air spa system**“. After starting the function, the blower starts with soft running up to the middle intensity. The LED lights constantly, when the blower is activated. If the blower is turned off, the LED flashes (1 second on, 1 second off). With the intensity keys “+” and “-“ the power of the blower can be adjusted respectively. The control also has an interval function for the blower. The interval function can be activated by pushing simultaneously the keys “intensity +” and “intensity –“. The blower is turned off automatically 30 minutes after the last activation or if the water sensor blower signals that no water is in the tub anymore (sensor is not covered anymore). If the water sensor was at least for 1 minute covered with water, the automatic afterblowing starts after 3 minutes. The automatic afterblowing takes 30 seconds and can be interrupted with the key “**air spa system**“. The afterblowing can also be started manually. If the water sensor signals, that the tub is empty, the afterblowing can be started and stopped with the key “**air spa system**“. The afterblowing takes 30 seconds.

Colored light:

To the control unit up to 2 colored light spotlights can be connected. With the key “**colored light therapy**” the colored light can be activated. By pushing the key the color changes. The color sequence is like following:

Red – yellow – green – blue – colored light change.

During the option colored light change the changing can be stopped or continued with the key „**colored light therapy**“. To turn the spotlights off, the key „**colored light therapy**“ has to be activated for approx. 3 seconds. Is a single color active, the LED lights constantly. Is the colored light change active, the LED flashes (0,5 Hz, 1 second on, 1 second off). If the colored light change is stopped, the LED lights constantly. The LED flashes (1 second on, 1 second off), if the spotlights are turned off. The spotlights can be activated independently from the water level sensors.

Scalding protection:

At the fittings (water supply) the desired operating temperature must be **regulated manually** (temperature max. 38,5°C).

6.3 Operating air spa system

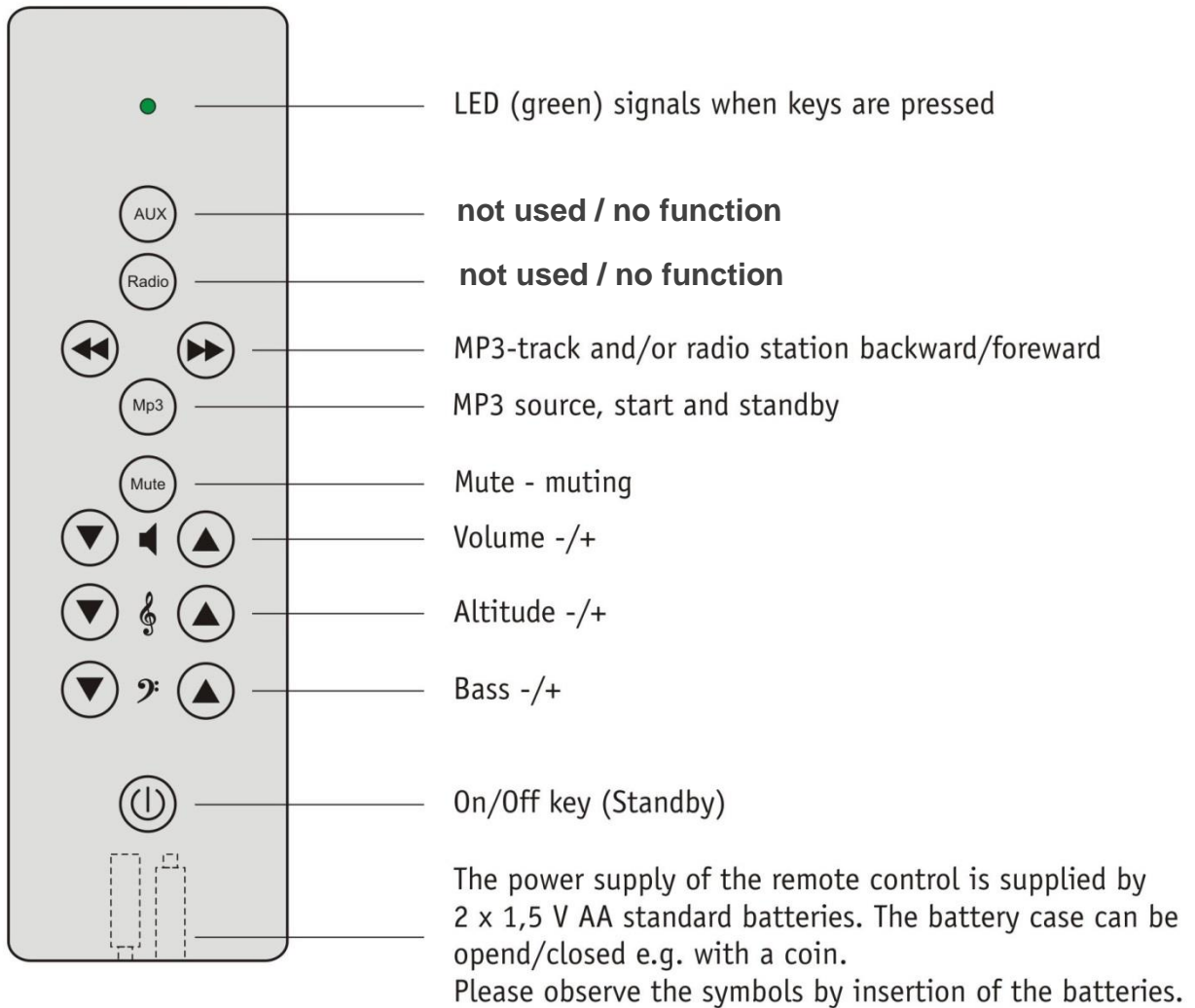
Besides its relaxing effect, the air spa system has also a healing function. Thousands of air bubbles massage the skin and open up the pores.

This massage increases the blood circulation of the skin cells. The air spa system reduces muscular pain at articular rheumatism and improves essentially the well being of the patient.

Notice:

- **The air nozzles of the air spa system have to be disinfected after each application!**
- **That no water is remaining in the air nozzles, the blower is after blowing for approx. 30 seconds. Please do not interrupt this „drying cycle“ and wait until the blower has been stopped automatically.**

6.4 Music sound system



Music-Sound system AVERO

The music-sound system AVERO is controlled by the remote control included in the delivery. The USB-Stick is inserted into the MP3-docking station. Remove the cover to insert the USB-Stick. The cover of the docking station must be readjusted after insertion of the USB-sticks. The music files are now automatically recognized.

Start the Music-Soundsystem with the key . With the key Mp3 source the play back is started.

With the keys the track jump can be activated.

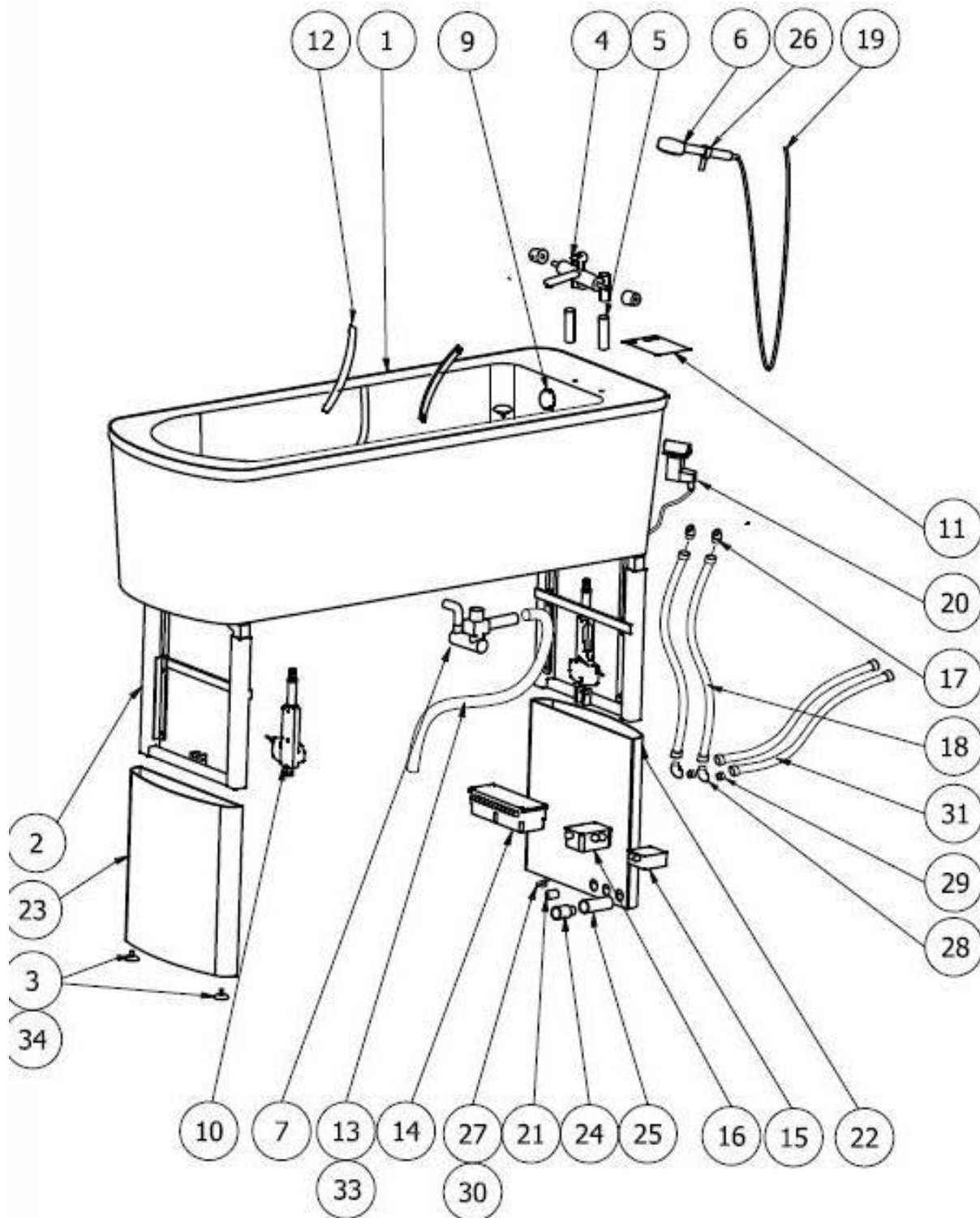
For muting the play back, press the key . The muting function can be exited by pressing the key

or

The volume and adjustment of the altitude and bass, can be activated by pressing the keys for volume, for the altitude and for the bass.

The music-sound system should be turned off with the key , when the tub is exited.

6.5 Assemblies AVERO Comfort



Pos. No.	Description	Pos. No.	Description
1	Tub body GRP	18	Connection hose DN 13, ½", L= 1000 mm
2	Motor frame for tub	19	Shower hose Magflex
3	Machine foot M16 x 70 mm, Ø 40 mm	20	Magnet valve
4	Thermostat mixer	21	Cable connection M20
5	Foot stand	22	Cover of the lifting foot
6	Hand shower	23	Back cover of lifting unit
7	Excenter set (drain and overflow)	24	Reduction short, PVC 50 x 40 mm
9	Excenter button	25	Tube PVC, 40 x 1,9 mm PN
10	Electric motor	26	Ball-joint wall holder of hand shower

11	Keypad with 3 resp. 7 keys	27	Grounding cable H07V-K, 4 qm
12	Handle	28	Elbow connection RG, 1/2 " IG x AG, 90 °
13	Drain hose	29	Double nipple RG chromed
14	Power supply	30	Cable 3 x 1,5 qmm, black
15	Distribution box	31	Connection hose DN 13, 1/2 ", L= 500 mm
16	Control for keypad	33	Hose clamp
17	Elbow connection RG, 1/2 ", IG x AG, 45°	34	Hexagon nut M16, A4-7


7. Cleaning / Disinfection

7.1 Cleaning of the lifting tub AVERO Comfort

Clean the lifting tub AVERO Comfort with a soft, lint-free cloth. Use for a thorough cleaning a damp soapy cloth. For disinfecting, dampen a cloth with isopropyl alcohol solution.

To prevent damage, for the cleaning of the control unit **do not use** aerosol cleaners, sprays, abrasives or solvents.


Achtung:



Please make sure that during cleaning and disinfection the system is not turned on!

„Pull the power plug!“

WARNING:



After every treatment, AVERO Comfort must be disinfected completely with a disinfectant, in order to avoid any cross-contamination.

Clean the lifting tub AVERO Comfort with a soft, lint-free cloth. For thorough cleaning use a cloth moistened with soap sud. For disinfection you can moisten the cloth with isopropyl-alcohol solvent. The body of the lifting tub AVERO Comfort is made of glass reinforced plastic and can be disinfected with surface disinfectants (not aggressive).

If such cleaning agents are still used, all warranty claims with respect to the surface damage will be lost.

7.2 Disinfecting the lifting tub AVERO Comfort

Regarding the risk of transmissions, we recommend that you disinfect and rinse your tub carefully between each use.

The disinfection of the tub is carried out manually.

Please note that you can only disinfect with a disinfectant system, but it does not clean it. You must use a sponge and soap, in order to remove grease spots, remains of skin and hair. Never use an abrasive to clean the bath tub!

Caution:

Make use of the disinfection system only when the patient has left the bath tub. Strictly follow the instructions of the manufacturer of the disinfectant used. Avoid any direct contact with the concentrated product. As the circumstances require, protect the skin and the eyes with gloves and protective glasses.

Notice:

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

To ensure that no water remains in the nozzles, the blower will continue to run for 30 seconds.

Please do not interrupt this "drying cycle" and wait until the blower itself switches off automatically!

7.3 Sterilisation

The lifting tub AVERO Comfort is **not** suitable for sterilisation.

7.4 Contact person for technical information

For technical information and for queries regarding the application please always get in touch with the medical product advisor of your sales partner or the manufacturer.



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8. Disposal

8.1 Disposal of the packaging material

The expected operating life of the lifting tub is approx. 8 years.

Please treat the packing material provided with the lifting tub AVERO Comfort in compliance with local applicable laws and regulations (recycling).

The metallic parts as well as the plastic and electronic components are to be recycled according to the WEEE.

8.2 Product disposal

After the end of the product life cycle get in touch with your BEKA contractual partner, who will deal with the lifting tub AVERO Comfort as required in compliance with local applicable laws and regulations (recycling).

Being the manufacturer, BEKA Hospitec GmbH will provide more information on environment compatible disposal.

Even before disposing of the lifting tub AVERO Comfort please clean and disinfect it.

9. Safety check

A "Safety check" (SC) need to be carried out at the lifting tub AVERO Comfort at intervals of **12 months** together with a service.

Safety checks and maintenance need to be documented in the medical product book.

After the validity period of the inspection plate has expired please contact the manufacturer.

Checks must be carried out by the manufacturer or professional staff authorised by the manufacturer only.

Attention: **The BGV A3 inspection must be carried out with the lifting tub AVERO Comfort once every year.**

Daily checks: Cleaning, disinfecting.

Weekly checks: Visual inspection of all components as well as tubes, pipes and connections, perform a function test.

Monthly checks: Check the filter in the water inlet and clean if necessary.

Annual checks: SC, inspection, BGV A3.

10. Troubleshooting / Customer support

10.1 Troubleshooting

Problem	Relief
The height adjustment does not work.	<ul style="list-style-type: none"> a) Check that power is applied. b) Check the connections between the PLC and operating unit. c) Check control unit for damage. d) Check cable for damage.
The lifting tub remains in the upper end position.	Check that power is supplied.
The lifting motor does not work.	Check that power is supplied.
Actuator „stalls“ during lift.	The lifting capacity is exceeded (max. patient weight).
The power LED do not light.	Check that the fuse is on.
The mains voltage fails.	<ul style="list-style-type: none"> a) Check the fuse. b) Check cable for damage.
No water.	<ul style="list-style-type: none"> a) Check the lock valves of the cold and hot water as well as the pipe interrupter. b) Check the water inlet filter.
The automatic filling does not work.	Disconnect from the mains. Run a restart. If this does not achieve the desired results, please contact the BEKA Service.
From the fitting only hot or cold water is running.	<ul style="list-style-type: none"> a) Check that hot and cold water connections are reversed (on site). b) Check the filter and the inlet and outlet fittings for blockage.
Water flow rate is to low.	<ul style="list-style-type: none"> a) Check the filter and the inlet and outlet fittings for blockage. b) Check that the flow rate is sufficient for supply conditions. c) Check the connection hoses for kinking.
From the fitting of water occurs.	Check all seals whether they are damaged, replace damaged seals.
Filling speed too fast.	a) Water pressure too high (install pressure reducer on site).
The bath water runs off during the bathing process.	<ul style="list-style-type: none"> a) Check water plugs and if necessary, adjust the screw on the water plugs again. b) Check seal for dirt and damage.
The bath water does not run off.	<ul style="list-style-type: none"> a) Check water plugs and if necessary, adjust the screw on the water plugs again. b) Check seal for dirt and damage.

The air spa system does not work.	Check that power is supplied.
The air spa system fails during operation.	a) The air spa system has been used for more than 15 minutes. Let it cool down. b) Overheating due to high ambient temperature. Let it cool down.
The sound system does not work.	a) Check if the USB stick is inserted correctly. b) Maybe the USB flash drive is defective. Insert new USB stick.
The coloured light therapy system does not work.	a) Motherboard defective. Contact BEKA Service. b) Defective LED spot light. Contact BEKA Service.
If you hear unusual noises on the lifting tub.	Contact BEKA Service.
If the lifting tub is damaged.	Contact BEKA Service.

10.2 Customer service

Please contact the customer service of your local dealer or the manufacturer, if the lifting tub AVERO Comfort does not function properly and you could not eliminate the error with the relief actions according to section 10.1.



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11. Appendix

11.1 Technical Data

Dimensions and Weights

- Length:	210,0 cm
- Width:	80,0 cm
- Inside tub dimension (L / W / D):	177,0 cm x 57,5 cm / 72,0 cm x 40,0 cm / 42,0 cm
- Hight hoist min.:	68,0 cm
- Hight hoist max.:	108,0 cm
- Weight without water:	ca. 110 kg
- Capacity (without patient):	ca. 270 l
- Patient weight:	max. 250 kg
- SWL (Safe working load):	400 kg (Patient and water)
- Application part:	Type B
- Type of protection:	Class I

Electrical Data

- Voltage:	230 V, 50 Hz
- Power consumption:	4,5 Amp. (1035 VA)

Control unit

- Type of protection:	Class II
- Application part:	Type B
- Operating mode:	Continuous operation
- Input voltage:	230 V~ (AC) / 50/60 Hz
- Power input:	4,5 Amp.

Electrical motor data

- Power supply:	24 Volt (DC)
- Frequency:	50 / 60 Hz
- Power input:	6 Amp.
- Power-on time max.:	2 Min On and 18 Min Off
- Protection type:	IP X4

Environmental conditions

Operation

- Temperature range:	Between 10° C and 40° C
- Relative humidity:	Non-condensing between 30% and 95%
- Atmospheric pressure range:	800 – 1060 hPa

Storage and Transport

- Temperature range:	Between -20° C and 70° C
- Relative humidity:	Non-condensing between 10% and 80%
- Atmospheric pressure range:	500 – 1100 hPa

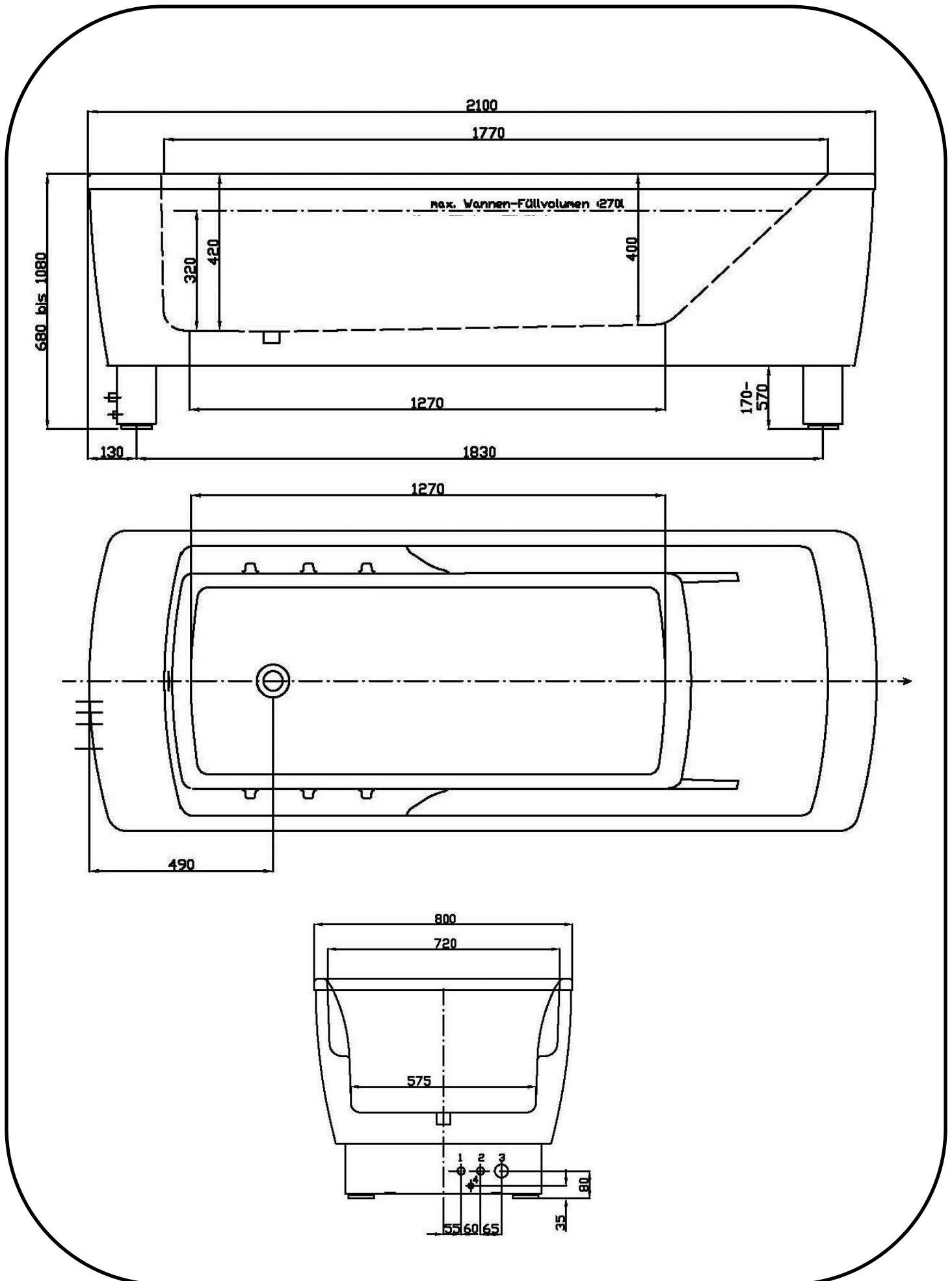
Manufacturer:



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11.2 Dimensions AVERO Comfort



11.3 Icons and symbols used



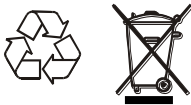
Observe accompanying documents / operating manual.



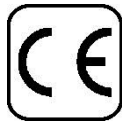
Caution for a hazard area.



Application part "Type B" according to DIN EN 60601-1.



No domestic waste.
Do not put the treatment system and packaging materials into the domestic waste.



CE mark according to 93/42/EEC for medical products.



Indoor use only.



Type of protection: Class I

IPX4

Water splashing against the enclosure from any direction shall have no harmful effect.

11.4 Declaration of conformity

Upon request, you can get the declaration of conformity of the lifting tub AVERO Comfort from its manufacturer **BEKA Hospitec GmbH**.

11.5 Accessories lifting tub AVERO Comfort

Part No.	Description
910145500	Tub shortener
910609300	Automatic water stopp
910609500	Music sound system
910609400	Air spa system
910609600	Coloured light therapy system
910609150	Aroma therapy
K9100360	Hand shower
K9100360	Shower hose L= 2,0 m
K9100020	Electrical motor for AVERO Comfort

