

Operating manual

for

Lifting tub AVERO Phoenix 170

Part No. 910130000

Lifting tub AVERO Phoenix 190

Part No. 910131000



Illustration shows AVERO Phoenix Part No. 910131000

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1. Preface

Dear Customer,

thank you for purchasing a medical product from BEKA Hospitec GmbH. Please consider the following points:

- 1. Please read the enclosed instruction manuals carefully.
- 2. Use this device for its intended purpose only.
- 3. Operating this device is only admissible through instructed and trained personnel.
- 4. Electrical installations may only be done by specialist companies according to the currently valid VDE regulations.
- 5. Maintenance and safety checks are only permitted to be carried out by BEKA Hospitec or by companies authorised by BEKA Hospitec.
- 6. Installations, upgrades, changes or repairs are only permitted to be carried out by BEKA Hospitec or by companies authorised by BEKA Hospitec. In case technical interventions such as amendments or changes to our devices are not made or carried out by BEKA Hospitec or by companies authorised by BEKA Hospitec, all warranties for the changes as well as for the device or device functionalities connected with these changes, shall expire immediately.

Liability and warranty

The manufacturer of the device shall only be responsible for the safety and reliability of the device if:

- a. the installation has been done by authorised persons,
- **b.** the respective space corresponds to the current VDE guidelines and has been maintained as such,
- c. the device is used for its intended purpose,
- **d.** functionality checks are carried out on a regular basis.

2. Introduction

2.1 Intended use

The lifting tub AVERO Phoenix is intended to be used to bathing and nursing patients in hospitals and nursing homes as well as nursing facilities.

Through its height adjustment the lifting tub AVERO Phoenix helps in simplifying the care given to the patient.

2.2 Duration of treatment

The duration of one treatment unit with the lifting tub AVERO Motion is specified as maximum **30 minutes**.

Please note

Side effects through treatments are not known. Please pay attention to the contraindications in section 2.4.

2.3 Typical indications

For bathing and nursing of patients in hospitals and nursing homes as well as nursing facilities.

2.4 Contraindications

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

WARNING:	Patients with: • Cardiac insufficiency,
	 Cardiovascular diseases, Intracranial injury, Open wounds, Supply or discharge pipes (e.g. catheters, drainages), Tumours in the treatment area may be treated with the lifting tub AVERO Phoenix after consulting the physician in charge.

2.5 Safety risk and possible device damage



Patients with active implants like infusion or insulin pumps as well as patients with feverish conditions, inflammatory skin diseases and AIDS may **not** be treated with the lifting tub AVERO Phoenix. A warning sign should be placed well visible in the approach area to the treatment room.

Please observe the safety instructions provided in the following paragraph.

3. Safety instructions

Please read the following safety instructions before using the lifting tub AVERO Phoenix for the first time. All notes and warnings on the device and in these operating instructions must be absolutely observed.

The manufacturer BEKA Hospitec GmbH shall not be liable for any errors or damage caused by improper use.

• Operating instructions



Please read the safety and operating instructions before using the lying bath tub AVERO Phoenix for the first time. Please keep these operating instructions near the device for later use.

- The product is only permitted to be deployed and operated by trained personnel.
- Before each use, check that all parts are undamaged; in case parts are damaged, the tub may **not** be used.
- The water temperature must be checked every time before using.
- After each application the product has to be disinfected.
- Always make sure that your feet are located next to the tub before and during the height adjustment.
- During the height adjustment of the tub feet shall not be placed on the foot stand.
- The operator must make sure that nothing is in the area under and above the tub which could impede free up and down movement of the tub.
- The bath tub must only be used for its intended purpose.
- Make sure that the power supply is always switched on during the treatment.
- Before each use of the device, the user has to make sure all functions are safe to use and the device work as intended (e.g. visual checks, functionalities, etc.).
- Every month the pressure hoses must be checked for leakages, the connections for secure fitting as well as the electrical connections for cracks in the cables.
- Devices that are used together with the electrical-medical bathing devices (e.g. devices for administering underwater massages, device for circulation, patient lifting devices) must conform to the guidelines for protection against the risk of an electrical shock according to the standard E VDE 0750 Part 224.
- The device is not approved to be used in explosion-prone areas.
- Treatment must only be carried out under supervision.
- The nursing staff must protect the skin and the eyes against concentrated disinfection and cleaning agents. **Pay attention to the operating instructions for the disinfectant used.**
- Adjustable tub shortener

The tub shortener must be respectively inserted into the opposing guides.

Control unit

The control unit may only be operated by trained and instructed personnel.

Power supply connection

The electrical connection must be performed by an authorized electrician. The current local requirements 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 form the power supply and get in touch with the customer support of your BEKA sales partner or the manufacturer:



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 www.beka-hospitec.de

CAUTION:

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

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 Phoenix 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 Phoenix 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

A "Safety Checks" (SC) needs to be carried out with the lifting tub AVERO Phoenix in intervals of **12 months** in connection with maintenance work. For intervals please see section 9.

• Accessories

Please operate the lifting tub AVERO Phoenix with original accessories only.

WARNING:



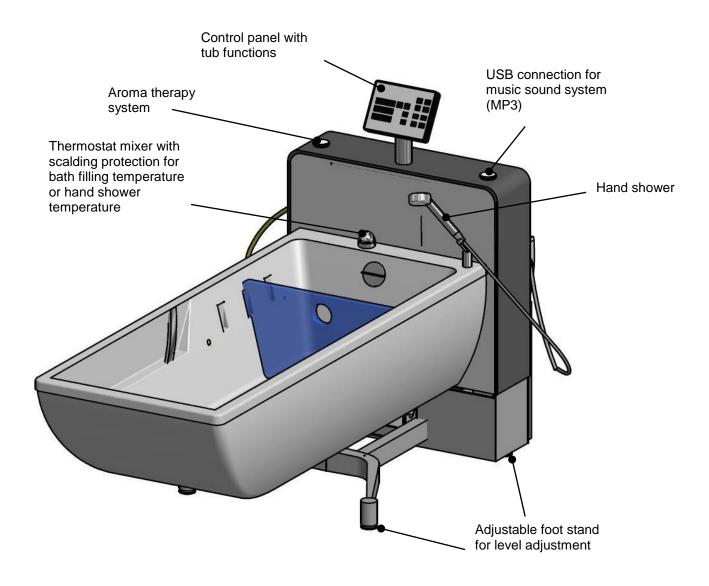
Any unauthorized repair, rebuilding's and changes are forbidden for safety reasons and exclude a liability of the manufacturer for the damages resulting from it.

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.



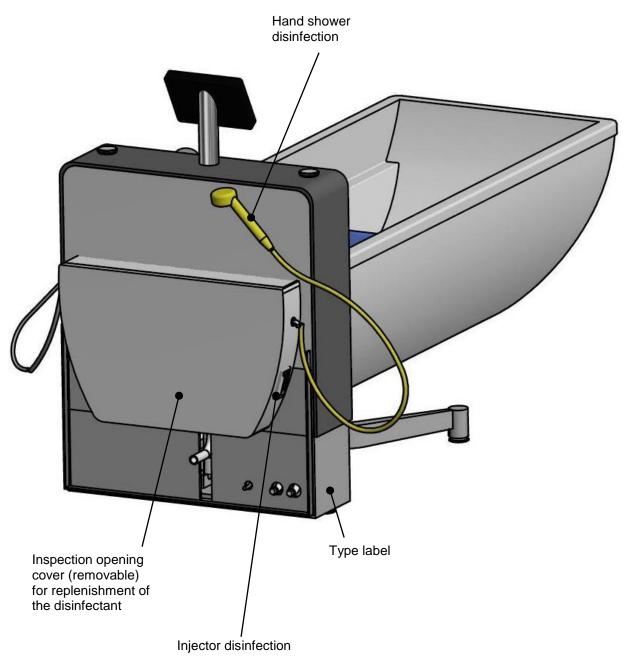
4. Operating elements lifting tub AVERO Phoenix

4.1 Description operating elements



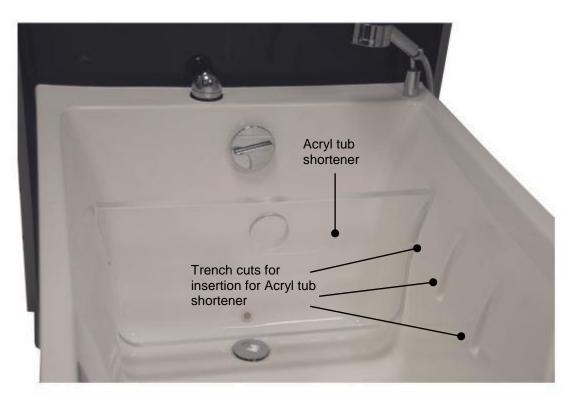
Picture 1:

The illustration shows the operating elements and the foot stand of the AVERO Phoenix



Picture 2:

The illustration shows the control panel of the AVERO Phoenix with disinfection hand shower

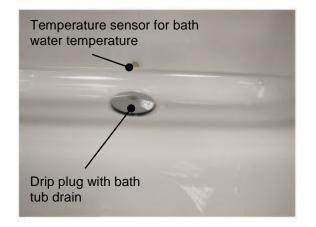




Picture 4:

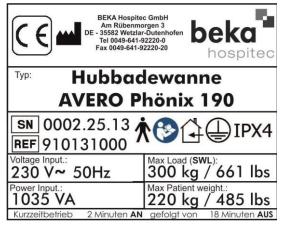
The illustration shows the excenter rotary actuation.

Picture 3: The illustration shows the tub interior AVERO Phoenix



Picture 5: The illustration shows the drip plug

4.2 Type Label



Picture 1:

The picture shows the type label.

The type label can be found on the cover, as shown in item 4.1 picture 2.

The serial number can look as follows 0002.25.13. If you have any questions, please always refer to the serial number of the unit on the type label.

5. Installation

Dear Customer,

- Please have your electrical installation checked according to the valid VDE regulations 0100 and 0750th before using our equipment.
- As the operator of this system, you must regularly get checked the function of the ground fault interrupter. Please ask your local electrician.
- These checks are necessary for the safety of your patients and for your own safety.
- The device is not approved to be used in explosion-prone areas.
- This device is only intended for use in medical rooms (according to VDE 0100).
- Repairs are only permitted to be carried out by BEKA Hospitec or by companies authorised by BEKA Hospitec. Otherwise all warranties for the changes as well as for the device or device functionalities connected with these changes, shall expire immediately.
- The water-side connection of the AVERO Phoenix must comply with the technical drawings of the BEKA Hospitec and the Guidelines for the establishment of wet areas and the current VDE standards.
- All inlet and outlet hoses must be routed so that there is no danger of stumbling.
- Before installing the tub, the water connections must be adequately rinsed.
- Before initial startup the thermostatic mixer must be calibrated by a trained person.

5.1 Note before the first start-up

WARNING:



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

Only under these conditions, the manufacturer considers responsible of the effect on the safety, reliability and performance of the device.

If the lifting tub AVERO Phoenix will be reconnected, the specifications must 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.



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 Phoenix 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 (eg in Germany DIN VDE 0100-710).

The AVERO Phoenix 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 Phoenix

The lifting tub AVERO Phoenix is free accessible from three sides and requires little space.

If you want to fill the lifting tub AVERO Phoenix, press the key "6 or 7" of the control to fill the tub. When the water has reached the desired level, the filling is stopped automatically.

Wheelchair patients can be easily lifted with mobile lift systems etc. in the lifting tub AVERO Phoenix.

The spacious opening below the bathtub allows direct access to virtually every lift system.

Due to the integrated seating function in tub, the patient has a better seating position. Two handles in the tub are provided for more safety. In the tub body of the lifting tub AVERO Phoenix are each 3 longitudinal guides in order to plug the tub shortener.

In order to bring the patient to the desired position, press the button "**Up or DOWN**" to lift the tub up or down. When the desired position is reached, release the button.

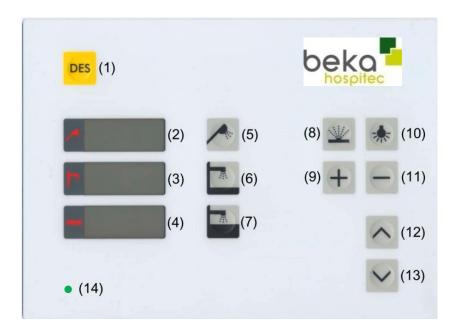
Once the bathing is completed, rotate the excenter button (overrun), in order to drain out the water. You can already begin to dry the patient's upper body while he is still sitting comfortably in the bathtub.

Help your patient now to come out of the bath tub or use a lift system to seat him in his wheelchair.

Make sure that the bath tub is always disinfected and rinsed before you use it for the next patient.

To do this, use the integrated disinfection (optional), with which your lifting tub AVERO Phoenix is optionally equipped.

6.1 Operation control of lifting tub AVERO Phoenix



1	Button disinfection	8	Button air spa system
2	Display hand shower temperature	9	9 + 11 button blower +/-
3	Display filling temperature	10	Button coloured light therapy system
4	Display bath water temperature	12	Button height adjustment UP
5	Button hand shower	13	Button height adjustment DOWN
6	Button filling (filling level 1)	14	Power indicator
7	Button filling (filling level 2)	-	_

(1) Button disinfection

The button disinfection switches on / off the disinfection unit.

Press 1x to switch on the disinfection, press the button again to switch off the disinfection.

The disinfection unit can be switched on only when the tub is emptied and all other functions are switched off. These are e.g. the functions of blower, light, hand shower and filling.

A disinfection procedure must be carried out for at least 15 seconds, else the system assumes an incorrect operation. The disinfection can be started by pressing the DES button (1). The power indicator (14) shows the activation of disinfection by lit up continuously.

The height adjustment of the tub is not affected by the blocking and continues to remain in operation.

The application time lasts for 5 minutes. All functions are released again after expiry of the application time. To interrupt the application time (blocking of further functions), press the disinfection button for 5 seconds.

(2) Display 1 / (3) Display 2 / (4) Display 3

The following are shown via the built-in digital displays:

Display (2) = Hand shower temperature

Display (3) = Fill temperature

Display (4) = Bath water temperature

The display is done in steps of 0.5°. The display can be done in °C or °F.

If the measured temperature is greater than 42 °C or 45 °C, the corresponding display then shows "HOT" alternately with the temperature.

The temperature is shown in the range of 2.5 °C (32.5 °F) to 64.0 °C (99.5 °F). "tLO" is shown, if the temperature is less than 2.5 °C. "tHI" is shown, if the temperature is greater than 64.0 °C.

(5) Button hand shower

The hand shower is switched on / off via the button (5).

The hand shower is switched off automatically, when the hand shower temperature is greater than 42 °C or 45 °C (display alternates with "HOT" scalding protection).

If the scalding protection is active (temperature display alternates with "HOT"), the hand shower can then no longer be switched on with the button (5). The hand shower can then be switched on / off with the following button combinations: Keep the button (5) pressed, then press the buttons (8) and (10) together in addition.

The hand shower can always be switched off (even with active scalding protection) with the button (5).

(6) Button filling height 1 + (7) filling height 2

Two filling heights have been defined for filling the tub. By pressing the button (6) the filling of the tub starts till the defined filling height 1. By pressing the button (7) the filling of the tub starts till the definend filling height 2 (max. autom. filling height.

Discontinuation of filling up to the level 1 or 2 is achieved by pressing the previously selected fill level. To start filling again, press again that button. The function is overridden if the chosen filling level has been reached.

It ist not possible after reaching the filling level 1 or 2 (depending on the selection) to fill the tub automatically.

Press after reaching the fill height 1 or 2 (depending on the selection) the button (6) or (7), in order to fill the tub further manually. The filling starts per button press for 10 seconds.

The tub filling is switched off automatically, when the fill temperature is higher than 42 °C (display alternates with "HOT" scalding protection).

If the scalding protection is active (temperature display alternates with "HOT"), the tub filling can then no longer be switched on with the buttons (6) respectively (7).

The tub filling can then be switched on / off with the following button combinations: Keep the buttons (6) respectively (7) pressed, then press the buttons (8) and (10) together in addition.

The tub filling can always be switched off (even with active scalding protection) with the buttons (6) respectively (7).

(8) Button air spa system

The air spa system (blower) can be switched on / off via the button (8). The blower is switched off automatically 30 minutes after the button is pressed the last time or when the water sensor reports to the blower that there is no water in the tub (sensor is no longer covered).

If the water sensor was covered with water for at least 1 minute, the automatic drying is started after 3 minutes. The automatic drying lasts for 30 seconds and can be interrupted with the button (8).

(8) Manual drying of the air spa system

After emptying the tub, the drying of the system can be done manually at any time. Press the button (8) to start or stop the manual drying. The manual drying of the system lasts for 30 seconds. No automatic drying of the system takes place after the manual drying is done.

(8) Automatic drying of the air spa system

After emptying the tub, the LED changes from continuous glowing to 5-second interval mode and the drying of the air spa system takes place. This process starts automatically after approx. 3 minutes and needs no intervention by the operator. The automatic drying of the system lasts for 30 seconds and can be interrupted by pressing the button (8).

(9 / 11) Button blower +/-

The blower power can be adjusted manually with the buttons +/-. Press the **button 8** to start the blower.

(10) Button coloured light therapy system

Press the button (10) to switch on the coloured light therapy system. The LED spotlight (with RGB colours) glows (1-4 piece). The further available colours can be selected by pressing the button (10) again. The sequence of the colours is as follows: Red - yellow - green - blue - automatic colour selection.

It is possible to stop the automatic colour change by pressing the button (10) again. Pressing the button (10) again starts the colour change. Press the button (10) for at least 3 seconds to switch off the colour light therapy.

(12) Button heigth adjustment (UP / DOWN)

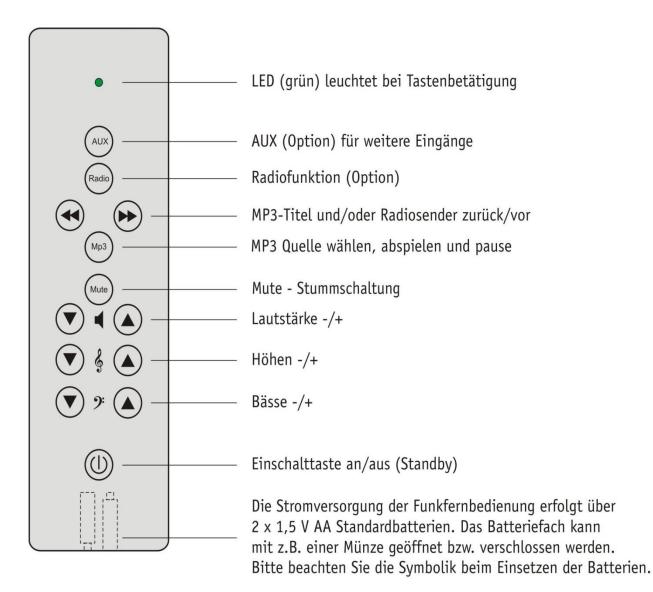
Via the **"UP**" and **"DOWN**" buttons the heigth of the tub can be adjusted individually.

If the "**UP**" button is pressed the tub moves up. If the "**DOWN**" button is pressed, the height increases.

(14) Power indicator

The power indicator indicates by flashing at 5 second intervals that power is applied and the AVERO Phoenix is ready.

6.2 Music sound system



Musik-Soundsystem

Das Musik-Soundsystem wird über die mitgelieferte Funkfernbedienung bedient. Der USB-Stick wird in die MP3-Dockingstation eingesteckt. Entfernen Sie den Deckel um den USB-Stick einzustecken. Der Deckel der Dockingstation muss nach dem Einstecken des USB-Sticks wieder verschlossen werden. Die Musikdateien werden nun automatisch erkannt.

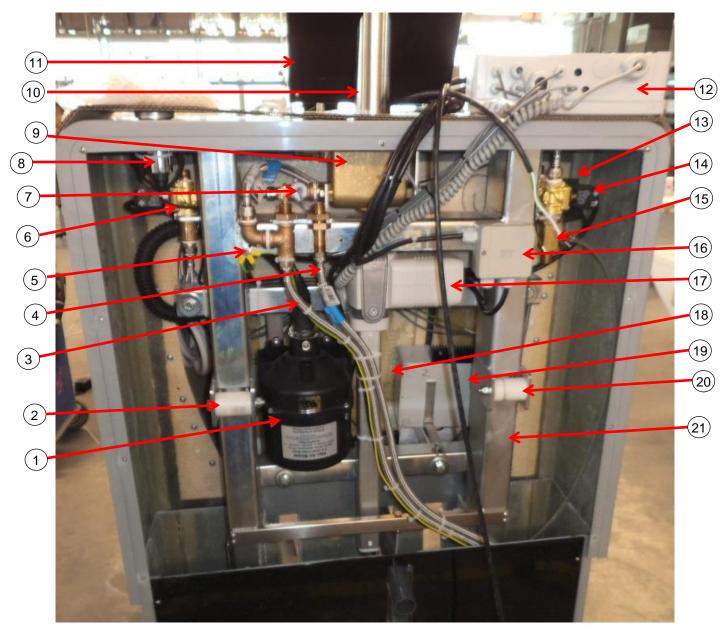
Schalten Sie das Musik-Soundsystem über die Einschalttaste () ein. Über die Taste Mp3 Quelle () wird die Wiedergabe gestartet. Mit den Tasten () kann der Titelssprung zurück und vor vorgenommen werden. Um die Wiedergabe stumm zu schalten, drücken Sie die Taste () Den Stumm-Modus (Mute) kann durch erneutes drücken der () oder durch drücken der () - Taste verlassen werden.

Die Lautstärke und Klangregelung des Musik-Soundsystems erfolgt über die Tasten 🕥 🖬 🍙 für die Laustärke, 🕥 🐇 🍙 für die Verstellung der Höhen und 文 🦻 🍙 für die Verstellung der Bässe.

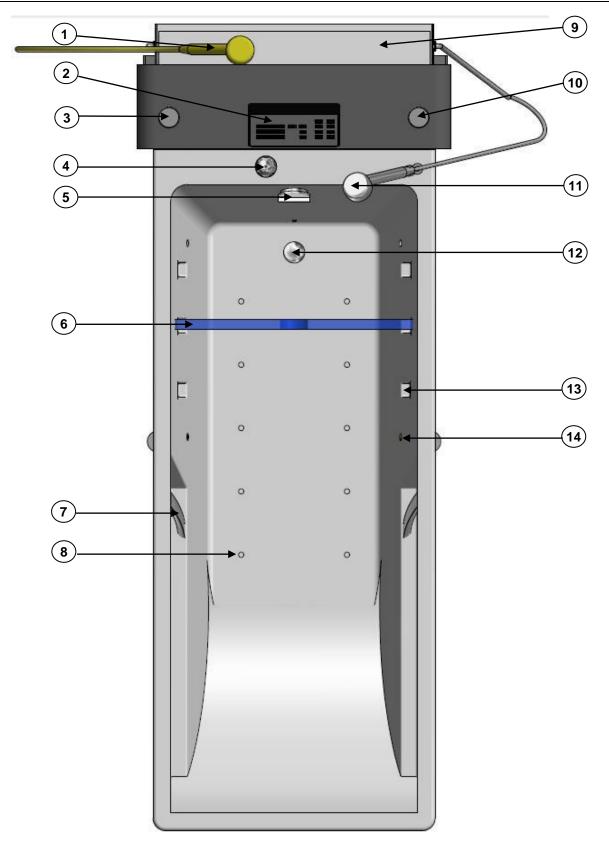
Das Musik-Soundsystem sollte beim Verlassen der Wanne über die Taste 🔘 ausgeschaltet werden.

Erläuterung Musik-Soundsystem	Explanation music sound system
LED (grün) leuchtet bei Tastenbetätigung	LED lights when the key is pressed
MP3-Titel und/oder Radiosender zurück/vor	previous/next MP3 title and/or radio station
MP3 Quelle wählen, abspielen und pause	Select, play and pause MP3 source
Mute – Stummschaltung	Muting
Lautstärke -/+	Volume -/+
Höhen -/+	Treble -/+
Bässe -/+	Bass -/+
Einschalttaste an/aus (Standby)	Power switch on/off (standby)
Die Stromversorgung der Funkfernbedienung erfolgt über 2 x 1.5 V AA Standardbatterien. Das Batteriefach kann mit z. B. einer Münze geöffnet bzw. geschlossen werden. Bitte beachten Sie die Symbolik beim Einsetzen der Batterien.	Power is supplied to the hand control via 2 x 1.5 V AA standard batteries. The battery compartment can be opened / closed with a coin. Please pay attention to the symbols while inserting the batteries.
Musik-Soundsystem	Music sound system
Das Musik-Soundsystem wird über die mitgelieferte Funkfernbedinung bedient.	The music sound system is operated via the accompanying hand control.
Der USB-Stick wird in die MP3-Dockingstation eingesteckt.	The USB stick is inserted in the MP3 docking station.
Entfernen Sie den Deckel, um den USB-Stick einzustecken.	Remove the cover for inserting the USB stick.
Der Deckel der Dockingstation muss nach dem Einstecken des USB-Sticks wieder verschlossen werden.	The cover of the docking station must be closed again after inserting the USB stick.
Die Musikdateien werden nun automatisch erkannt.	The music files are now detected automatically.
Schalten Sie das Musik-Soundsystem über die Einschalttaste @ ein.	Switch on the music sound system via power button
Über die Taste MP3-Quelle 🕞 wird die Wiedergabe gestartet.	The playback is started via the button MP3 source $^{\odot}$.
Mit den Tasten 🐨 kann der Titelsprung zurück- und vorgenommen werden.	With the buttons $\textcircled{\textcircled{O}}$ one can jump to the previous and the next titles.
Um die Wiedergabe stumm zu schalten, drücken Sie die Taste .	Press the button Θ , in order to mute the sound.
Der Stumm-Modus (Mute) kann durch erneutes Drücken der 💮 oder durch Drücken der 💮-Taste verlassen werden.	The mute mode can be ended by pressing the button \bigcirc or by pressing the \bigcirc -button.
Die Lautstärke- und Klangregelung des Musik- Soundsystems erfolgt über die Tasten ♥ ▲ Iür die Lautstärke, ♥ ▲ Iür die Verstellung der Höhen und ♥ ▲ Iür die Verstellung der Bässe.	The volume and sound regulation of the music sound system is done via the buttons T () for the volume, The volume of the buttons () () () () () () () () () (
Für weitere Audioeingänge wurde die Taste 💮 in die Fernbedienung integriert.	The button is integrated in the hand control for more audio inputs.
Zurzeit ist die Taste ohne Funktion.	This button is currently without function.
Das Musik-Soundsystem sollte beim Verlassen der Wanne über die Taste aug ausgeschaltet werden.	The music sound system should be switched off using the button ⁽⁽⁾) when leaving the tub.

6.3 Assemblies lifting tub AVERO Phoenix



Pos. No.	Description	Pos. No.	Description
1	Blower motor	12	Control unit
2	Guide roller (POM C)	13	Magnet valve for filling the tub
3	Armored tube (cold water)	14	Magnet valve for disinfection
4	Armored tube (warm water)	15	Injector
5	Earthing (radial)	16	Distributor / Mains supply
6	Magnet valve for hand shower	17	Hoist motor
7	Sensor for mixed water (HB + WB)	18	Sensor for bath water
8	USB connection for sound system	19	Control for sound system
9	Thermostat Mattsson	20	Guide roller (POM C)
10	Bracket for control element	21	Lifting support
11	Control element	_	_



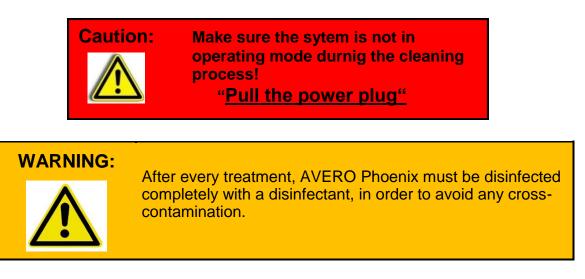
Pos. No.	Description	Pos. No.	Description
1	Hand shower disinfection	8	Air spa system
2	Control panel	9	Back cover
3	Aroma therapy system	10	USB connection for music sound system
4	Thermostat mixer	11	Hand shower
5	Overflow set	12	Drip plug
6	Tub shortener	13	Trench cuts for insertion of tub shortener
7	Handle chrome	14	Coloured light therapy system

7. Cleaning / Disinfection

7.1 Cleaning the lifting tub AVERO Phoenix

Clean the lifting tub AVERO Phoenix with a soft, lint-free piece of cloth. For thorough cleaning use a cloth moistened with soap sud. For disinfection you can moisten the cloth with isopropyl-alcohol solvent.

In order to avoid any damage **no** aerosol detergents, sprays, abrasive or solvents must be used for the control unit.



Clean the lifting tub AVERO Phoenix 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 Phoenix 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.

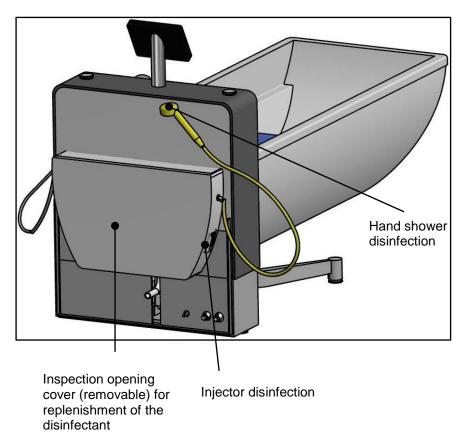
7.2 Disinfecting the lifting tub AVERO Phoenix

Considering the transfer risks, we recommend disinfecting and rinsing your bath tub carefully between each use. In case you select this option (Cleaning system), you will get a bath tub with an integrated disinfection system.

The disinfection of the tubs is carried out manually with the disinfecting hand shower (yellow). 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:

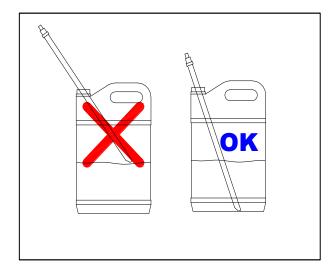
Make use of the disinfection system only when the patient has left the bath tub. Strictly follow the instructions of the manufacturer of the disinfectant used. Avoid any direct contact with the concentrated product. As the circumstances require, protect the skin and the eyes with gloves and protective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



1. The tank containing the disinfectant is accessible via the inspection lid at the backside of the AVERO Phoenix. When refilling and replacing the tank make sure that the suction hose reaches the bottom of the tank.

2. Take the disinfecting hand shower (yellow hose) and hold it in such a way that the disinfectant solution is sprayed in the bath tub. Start the disinfection by pressing the **button 1**. Rinse now very carefully the inside of the tub. Let the disinfectant act for long enough time (see recommendation of the manufacturer).

Thereafter wash the bath tub carefully with clear water (with the patient hand shower).

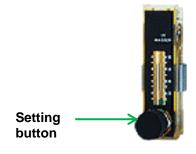


3. Check regularly (at least once per week), whether there is still enough disinfectant is in the tank. Refill, if necessary. Make sure that the suction hose reaches the bottom of the tank.

Notice:The nozzles of 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 Adjustable disinfection admixture

If you have selected this option, the flow meter is located at the back of the lifting tub AVERO Phoenix.



Setting the mixing ratio:

Fill the disinfectant tank with the disinfectant. To do this, remove the inspection cover.

The inspection cover is attached by click-lock and can be removed by simply lifting and be replaced after the filling process again and "clicked".

The disinfectant tank with a capacity of 1 litre can now be removed and filled. Please note that the disinfection hose must be inserted again in the tank after filling and placing back in the tub.

Hold the disinfection shower in the tub after starting the disinfection with button (1). By using the black settings button at the float-type flow meter adjust the desired disinfectant admixture (normally this setting needs to be done only during the first start-up). The extent of admixing depends on the specifications of the disinfectant manufacturer (approx. 60-100 ml/min).

Mixing ratio of disinfectant

(max. line pressure p = 4 bar, temperature approx. 20 °C, density of the medium approx. 1000 kg/m3, suction hose free of air)

Disinfectant: neoform MED FF

Supplier:

Chemical factory Dr. Weigert GmbH & Co. KG Mühlenhagen 85 D-20539 Hamburg www.drweigert.de

Value set on the scale (I/h)	Disinfectant concentration (%)
2.5	0.5
5	1.1
7.5	1.7
10	2.3
12.5	2.9
15	3.5

Checking the setting:

- 1. Open the shower for disinfection.
- 2. Determine water quantity per minute, calculate water quantity per hour.
- 3. Divide the value read from the scale by the water quantity.
- 4. Multiply with 100.
- 5. Result = concentration in %.

Example:	7 l/min = 7x60	= 420 l/h
	4.5 / 420	= 0.01
	0.01 x 100	= 1 %

7.4 Sterilisation

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

7.5 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 Phoenix 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 Phoenix 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 Phoenix please clean and disinfect it.

9. Safety check

A "Safety check" (SC) need to be carried out at the lifting tub AVERO Phoenix 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
	Phoenix once every year.

Daily checks:	Cleaning, disinfecting, check disinfection level.
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 of the lifting tub does not work.	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).
Power and temperature indicators do not light.	Check that the fuse is on.
The mains voltage fails.	a) Check the fuse.b) Check cable for damage.
No water.	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.	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 too low.	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 rate is too slow.	Water pressure too low.
Filling speed too fast.	a) Water pressure too high (Install pressure reducer on site).
The bath water runs off during the bathing process.	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.	a) Check water plugs and if necessary, adjust the screw on the water plugs again.b) Check seal for dirt and damage.
Disinfection does not work.	a) Check flowmeter (maybe closed).b) Check disinfectant container.c) Check hose of disinfectant.
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 color light therapy 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 Phoenix 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 190:	228,4 cm
- Width 190 :	89,0 cm
- Length 170:	213,4 cm
- Width 170:	89,0 cm
- Inside width (up) 190 / 170:	72,0 cm
- Inside width (down) 190 / 170:	57,5 cm
- Machine foot 190 / 170:	59,5 cm
- Height 190 / 170:	155,0 cm
- Height min. 190 / 170:	68,0 cm
- Height max. 190 / 170:	108,0 cm
- Weight without water 190:	ca. 207 kg
- Weight without water 170:	ca. 200 kg
- Capacity 190 (without patient):	ca. 220 l
- Capacity 170 (without patient):	ca. 190 l
- Patient weight:	max. 220 kg / 485
- SWL (Safe Working Load):	300 kg (Patient and water)
- Application part:	Туре В
- Type of protection:	Class I
- Type of protection: Electrical data	Class I
	Class I 230 V~, 50 Hz
Electrical data	
Electrical data - Voltage:	230 V~, 50 Hz
Electrical data - Voltage: - Power consumption:	230 V~, 50 Hz
Electrical data - Voltage: - Power consumption: Control unit	230 V~, 50 Hz 4,5 Amp. (1035 VA)
Electrical data - Voltage: - Power consumption: Control unit - Type of protection:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II
Electrical data - Voltage: - Power consumption: Control unit - Type of protection: - Application part:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B
Electrical data - Voltage: - Power consumption: Control unit - Type of protection: - Application part: - Operating mode:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation
Electrical data - Voltage: - Power consumption: Control unit - Type of protection: - Application part: - Operating mode: - Input voltage:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz
Electrical data- Voltage:- Power consumption:Control unit- Type of protection:- Application part:- Operating mode:- Input voltage:- Power input:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz
Electrical data - Voltage: - Power consumption: Control unit - Type of protection: - Application part: - Operating mode: - Input voltage: - Power input: Electrical motor data	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz 1,0 Amp.
Electrical data- Voltage:- Power consumption:Control unit- Type of protection:- Application part:- Operating mode:- Input voltage:- Power input:Electrical motor data- Power supply:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz 1,0 Amp. 24 Volt (DC)
Electrical data- Voltage:- Power consumption:Control unit- Type of protection:- Application part:- Operating mode:- Input voltage:- Power input:Electrical motor data- Power supply:- Frequency:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz 1,0 Amp. 24 Volt (DC) 50/60 Hz
Electrical data- Voltage:- Power consumption:Control unit- Type of protection:- Application part:- Operating mode:- Input voltage:- Power input:Electrical motor data- Power supply:- Frequency:- Power input:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz 1,0 Amp. 24 Volt (DC) 50/60 Hz 6 Amp.
Electrical data- Voltage:- Power consumption:Control unit- Type of protection:- Type of protection:- Application part:- Operating mode:- Input voltage:- Power input:Electrical motor data- Power supply:- Frequency:- Power input:- Power on time max.:	230 V~, 50 Hz 4,5 Amp. (1035 VA) Class II Type B Continous operation 230 V~ (AC) / 50/60 Hz 1,0 Amp. 24 Volt (DC) 50/60 Hz 6 Amp. 2 Min On and 18 Min Off

Environmental conditions

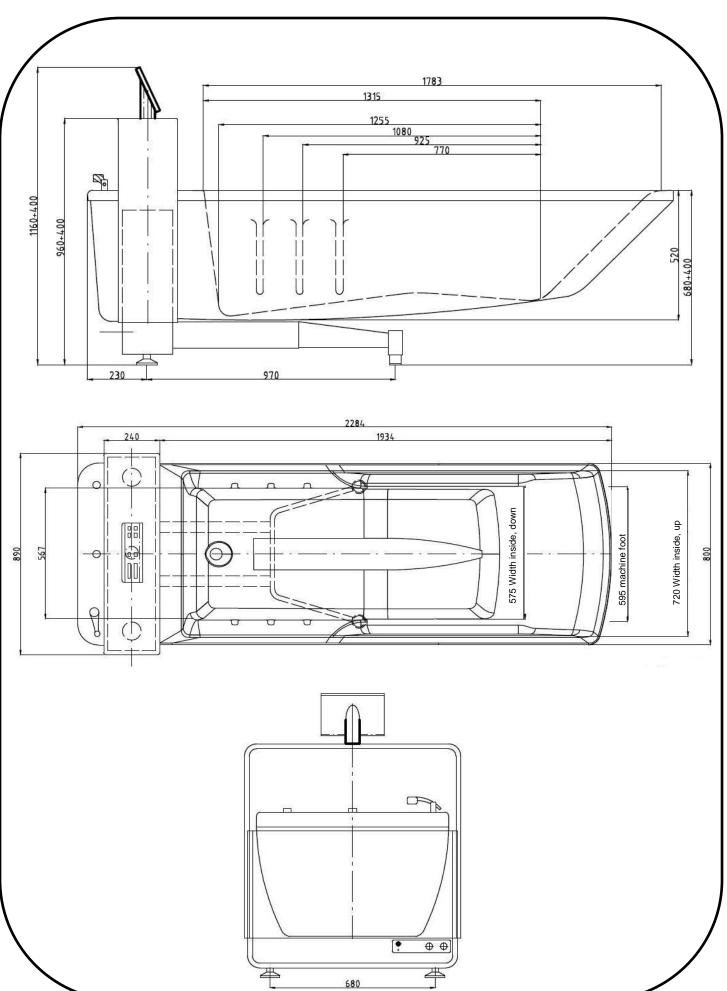
Operation	
- Temperature range:	Between 10° C and 40° C
- Relative humidity:	Non-condensing between 30% and 95%
- Atmospheric pressure range:	800 – 1060 hPa
Storage and Transport	
- Temperature range:	Between -20° C and 70° C
- Relative humidity:	Non-condensing between 10% and 80%
- Atmospheric pressure range:	500 – 1100 hPa

Manufacturer:

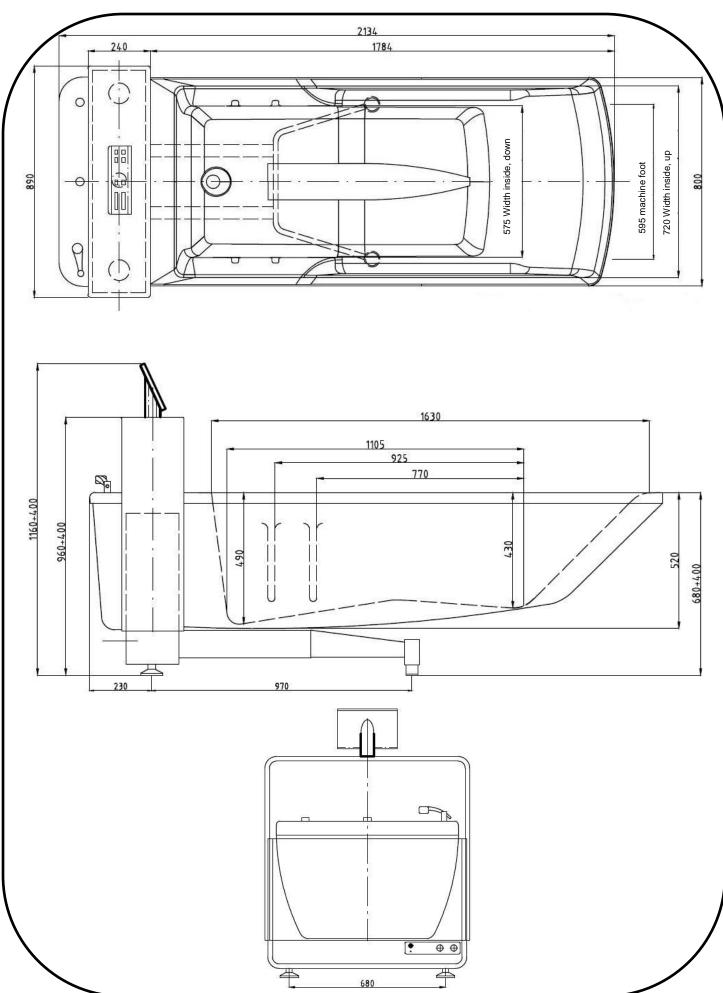


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11.4 Pictograms and symbols used







Observe accompanying documents / operating manual.

Caution for a hazard area.

Feet shall not be placed on the base frame.



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



ζ€

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.

11.5 Declaration of conformity

The declaration of conformity of the lifting tub will be provided by the manufacturer **BEKA Hospitec GmbH** upon your request.

11.6 Accessories lifting tub AVERO Phoenix

Part No.	Description
910609200	Tub shortener
910131200	Cleaning system
910131300	Automatic water stop
910131400	Music Sound System
910131500	Air spa system
910131600	Coloured light therapy system
910609150	Aroma therapy system
K9103300	Hand shower Nina
K9100363	Hand shower hose L= 2.3m
K9100951	Hand shower disinfection (yellow)
K9100351	Hand shower hose for disinfection (yellow) L=2.0m
K9100710	Electrical motor for AVERO Phoenix

