

megaSun[®]

by KBL



PRODUCT LINE



Design by
STUDIO F·A·PORSCHE

OPERATING INSTRUCTIONS



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TRANSLATION OF THE ORIGINAL OPERATING INSTRUCTIONS

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KBL GmbH

Ringstraße 24-26 · 56307 Dernbach · Germany

fon +49(0)2689.9426-0 · fax +49(0)2689.9426-66

eMail megaSun@kbl.de

www.megaSun.de

For instruction updates, please refer to <https://media.kbl.de>

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General information

About these instructions

This operating manual is intended for use by






- studio operator,
- user,
- staff,
- qualified, trained and authorized service technician.


Any person dealing with with this tanning device must have read and understood these instructions.


This manual describes tanning devices equipped with the maximum number of features.

Keep this manual ready to hand at all times.


Safety signs

	This symbol indicates that general hazards exist for the human health.
	This symbol indicates that due to electrical tensions hazards exist to the human health.
	This symbol indicates that due to UV radiation hazards exist to the human health.
	This symbol indicates that due to falling loads hazards exist to the human health.
	This symbol indicates the danger of pinching. When closing and opening panels and covers, you can pinch your hands.



	This symbol indicates the danger of burns from hot lamps and housing parts. If the tanning device was operated before being opened, lamps and housing parts may be hot.
---	--

	This symbol indicates that damages may occur at the tanning device, at the material or at the environment.
---	--

IMPORTANT INFORMATION

	This symbol does not identify safety notices, but states information for a better understanding.
---	--

Signal words

 DANGER	• Death or serious injury is imminent.
 WARNING	• Death or serious injury is possible.
 CAUTION	• Moderate or minor injury is possible.

Definitions

STUDIO OPERATOR

People who provide tanning devices to users on a commercial basis. The studio operator is trained to operate and maintain the tanning device. He is responsible for the proper operation of the tanning device as well as for compliance with the maintenance intervals.

USER

A person who uses the tanning device.


STAFF

People who are responsible for the operation, cleaning and disinfection as well as for the general maintenance work and instruction of the user on how to operate the tanning devices.


QUALIFIED, TRAINED AND AUTHORIZED SERVICE TECHNICIAN

Qualified and safety-trained specialist personnel of the manufacturer, or an outside company trained and authorized by the manufacturer for the installation and maintenance of KBL tanning devices.

Transport

	⚠ WARNING
	<p>Overturning load</p> <p>Danger of being crushed by heavy parts of the equipment.</p> <ul style="list-style-type: none"> • Keep the safety distance to the transport machine. • Do not walk under the load. • Wear safety shoes.

TRANSPORT BY FORKLIFT TRUCK

	<p>During transport the tanning device may be damaged when using forklift forks that are too short.</p> <ul style="list-style-type: none"> • Use only sufficiently long forks.
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The tanning device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimeters.
- Transport the load carefully to the place of installation.

OTHER MODES OF TRANSPORT

If a forklift truck cannot be used for transport, the tanning device must be partially disassembled and the parts must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

Old equipment disposal

This tanning device consists of components that cannot be thrown into the household garbage!



Dispose of your old equipment in an environmentally friendly manner after the end of its useful life. Metals and plastics can be recycled. Electrical and electronic components must be disposed of as e-waste. Fluorescent lamps must be dropped off at authorized collection points for pollutants.

This helps to avoid damaging effects to the environment and human health caused by improper disposal.

This makes a valuable contribution to recycling and other forms of utilization of old electrical and electronic equipment.

You can obtain information about environmentally friendly disposal from your local government or the municipal administrations.

	⚠ CAUTION
	<p>Risk of mercury toxicity Risk of mercury toxicity after a lamp breakage.</p> <ul style="list-style-type: none"> Ventilate the room / environment at least 15 minutes before disposing the lamp fragments.

Setup location

Operation only in dry rooms with sufficient airing and ventilation.

	<p>Do not operate the tanning device in locations with aggressive environmental conditions (e.g. salty air or air containing chlorine).</p>
--	---

DANGER OF OVERHEATING BY OBSTRUCTION OF THE AIRFLOW

Avoid in any case a change, obstruction or blockage of the air inflow and outflow area to the tanning device or to make any unauthorized changes to the

tanning device. The manufacturer shall bear no liability for damage or injuries resulting from such actions.

- Maintain the minimum distances from ceiling, bottom and the walls! Dimensions are given in chapter *technical data*.

	<p>Insufficient air supply leads to overheating which may result in damaging the tanning device!</p>
--	--

OPERATION IN MOBILE FACILITIES

	⚠ CAUTION
	<p>Crushing hazard caused by sudden movements</p> <p>The tanning device is unsuitable for operation in mobile facilities (buses, trains, ships).</p> <ul style="list-style-type: none"> • The tanning device must be adapted in order to ensure trouble-free operation when used in mobile facilities.

DIFFERENCE IN TEMPERATURE

	<p>Risk of damage by switching on the power supply voltage.</p> <p>When there are great differences in temperature between the transportation route and the installation site the tanning device shall not be put into operation immediately after being set up.</p> <ul style="list-style-type: none"> • Before connecting the tanning device to the power supply, wait at least for 2 hours.
--	--

Service

For all service-related questions, please contact your responsible specialist dealer.

Safety notes

This chapter provides a summary of general information on safety and proper handling of the tanning device. More specific safety advice is given in other chapters of the operating manual.

Intended use

This tanning device is intended to be used for the tanning of one single person at a time. This person must not fall in one of the categories mentioned below, otherwise using the tanning equipment is prohibited for him or her. The following individuals must not use the tanning device:

- Persons under 18 years of age.
- Persons, who are suffering or have suffered from skin cancer or have a predisposition toward this, or those whose first-degree relatives are suffering or have suffered from malignant melanoma (black skin cancer).
- Persons taking photosensitive medications.
- Persons, who are being treated by a physician for conditions associated with photosensitivity.
- Persons suffering from acute sunburn.
- Persons, who are prone to freckles.
- Persons with atypical discoloured skin areas or/ and with more than five atypical moles with a diameter of 5 millimetres or more and persons with more than 16 moles with a diameter greater than or equal to 2 millimetres. If in doubt, consult a physician!
- Persons, who had several severe sunburns as children.
- Persons with naturally red hair colour.

- Persons, who do not tan at all or cannot tan without getting sunburn.
- Persons, who have a predisposition toward sunburn.

Lie down on the bench in a straight position and with physical contact to the bench. Choose a suitable position to reach the interior control panel at all times during the tanning.

Foreseeable misuse

- This tanning device is not designed to be used by persons with reduced physical, sensory or mental abilities and lack of experience and/or insufficient knowledge.
- During operation, no other person may remain in the radiation area of the tanning device.
- Children should be supervised to ensure that they do not play with the tanning device.
- The irradiation of animals, especially reptiles.
- Any type of use that differs from the provisions under the chapter *Intended use* is considered misuse.

Duties of the studio operator

The studio operator is responsible for:

- Informing users of potential risks related to the application.
- Ensuring that all hazard notices and safety instructions on the tanning device are legible, observed, and not removed.
- Ensuring that safety equipment (such as thermal circuit breakers) is not removed, deactivated or otherwise bypassed.
- Ensuring that operating, cleaning and maintenance instructions are available.
- Through training and instruction of staff, ensuring the proper use (operation, control and maintenance) of the tanning device.



Operating instructions must enable the safe operation and control of the tanning device under consideration of national environmental protection and occupational health and safety provisions. Special characteristics of the studio operation and resulting insights also have to be taken into account.

- Directive 89/391/EEC applies in the EU.
- The Industrial Safety Directive (BetrSichV) applies in Germany.

The manufacturer assumes no liability for damages or injuries due to improper use or failure to observe these operating instructions.

Only use replacement parts approved by KBL!

Only replace the tubes and high-pressure lamps with the type identified on the tanning device, otherwise the operating permit and warranty will be voided!

General safety advice

- This tanning device was designed exclusively for use in a commercial environment.
- Follow all instructions given in this manual. In addition, observe all relevant statutory provisions and regulations, also those applicable in the country of operation.
- The tanning device may only be installed and set up by trained and authorised personnel having received safety-related instruction.
- Arbitrary modifications or conversions of the equipment are not permissible.
- Observe all danger signs and safety notices attached to the equipment.
- Safety notices must not be removed, and safety equipment must not be disabled or removed.
- The tanning device must only be operated when in perfect working condition.
- Never operate the tanning device with the outer covers or acrylic panes removed.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.
- Pay attention to the load limit of the bench pane (tanning bed units only).



The canopy is not designed to carry additional loads.

- Do not lean over the equipment cover.

Training of staff


The studio operator is obligated to train his staff and to instruct them in the established legal and accident prevention regulations. He must ensure that his staff has understood and observes these instructions. This includes:

- Operating instructions.
- Safety instructions.
- Information regarding intended use and foreseeable misuse.
- Cleaning/disinfection and maintenance instructions.
- The instructions and additional information from the manufacturer must be available to the staff at their workplace. Regularly test your staff's safety consciousness and awareness of the risks, taking into account the operating instructions of the tanning device.
- Make sure that the cleaning/disinfection intervals are complied with, especially the cleaning and disinfection of the tanning device after every use.
- Make sure that your staff provides the customers with appropriate advice, especially regarding use times, possible risks and the operation of the tanning device.

Measure to maintain operational safety

To maintain operational safety, a recurring inspection of the tanning device has to be performed every 12 months from the commissioning date by KBL Customer Service or an approved specialised firm. Inspections and maintenance must be recorded in the inspection record and log book for the tanning device! (KBL article no.: 1100117110)

Updating system software

	<p>Risk of damage by switching off the power supply voltage.</p> <p>Disconnecting power supply during the update process, will lead to damage of electronic components.</p> <ul style="list-style-type: none"> • Make sure that the tanning device is not disconnected from the power supply voltage during the update.
---	---

- To accomplish the update, download the update software offered by KBL.
- For detailed information about the update process refer to the help files included in the software package.

Timer operation

The tanning device must be controlled via an external timer that meets the requirements of EN 60335-2-27, cl. 22.105.

Tanning times

Adhering to tanning times and schedules is essential.

Description of the tanning device

Standards

This tanning device complies with the following standards in their respectively applicable version:

- EN 60335-2-27
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU

Components

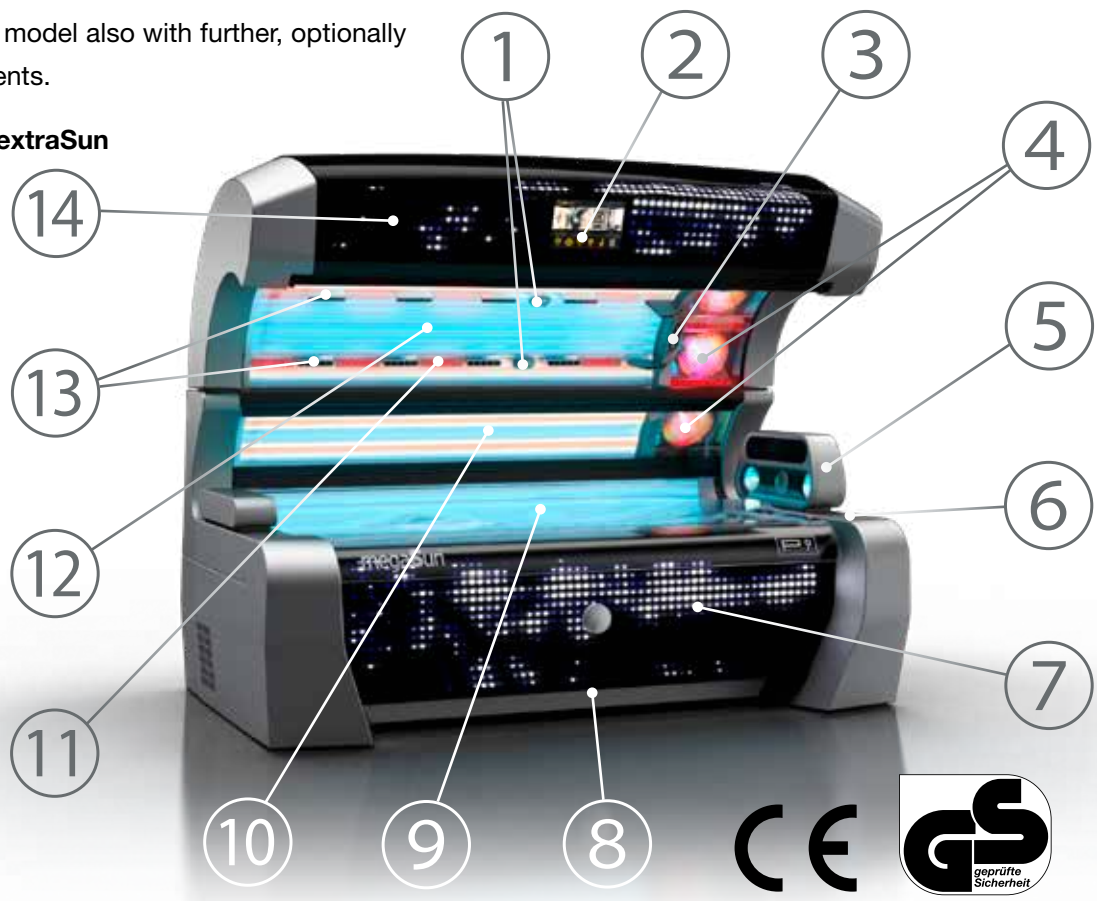
The tanning device basically consists of the following components:

- The canopy including 20 tubes, 3 facial tanners, 70 beautyBoosters, exterior- and interior control panel.
- The side part including 6 tubes and face tanner.
- The base part including 24 tubes, shoulder tanner and the electronic unit.

Depending on the model also with further, optionally available components.

Example: MS P9 extraSun

1	aquaCool - nozzles (optional equipment)
2	Exterior control panel (touch screen)
3	Interior control panel
4	Facial tanner
5	Shoulder tanner
6	Area for wireless charging of smartphones.
7	Base (faceplate)
8	Opening mechanism of the bench part
9	Bench pane
10	Side pane
11	beautyBooster
12	Canopy pane
13	Air nozzles
14	Canopy



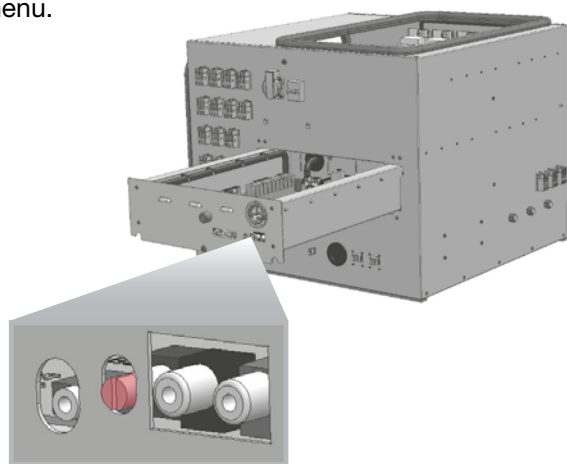
Connections - Audio



For information on further tanning device connections, refer to your ASSEMBLY INSTRUCTION in the section “Connections & Initial operation”.

Level adjustment studio music signal

The voice / audio system components are built in the middle of the bench part (vacuum housing) of the tanning device. The potentiometer which serves of the external audio signal is located on the left side of the housing. To avoid overdrive, select the level adjustment accordingly. The level setting depends on the strength of the external signal and should be carried out by a service engineer. Adjustment of the sound level can only be conducted in the service menu.



Operation using different audio sources

The audio source can be changed via the interior control panel. The tanning device can be operated using the following audio sources:

INTERNAL MP3 PLAYER

When using the internal MP3 player, you can either play the music tracks that are originally supplied on the SD card, or you can record your own tracks to the SD card.

EXTERNAL AUDIO SOURCES

As an external audio source, you can connect devices ranging from the standard-line level to low loudspeaker levels.

These sources comprise:

- Studio music
- External bluetooth players such as smartphones etc.

EXTERNAL 100 V AUDIO SIGNAL ON STUDIO CHANNEL (OPTIONAL FEATURE)

If you decide for a connection to a 100 V audio system, you will need a transformer (KBL no.: 9100 0170 00) for the transmission of the audio signal.

This connection must be made by trained and authorised personnel.

Bluetooth connection

To connect an external player (smartphone etc.) wirelessly to the tanning device an optional Bluetooth interface is available.

CONNECT EXTERNAL PLAYER

A Bluetooth connection can be established in standby and during tanning mode.



Make sure that you are within the reception area (about 2 meters).

Make sure that your player is configured to search for other bluetooth devices. Should this not be the case, enable bluetooth manually. To do so, please read the instructions for your player.

- Depending on your settings the search will be performed automatically or manually. All available Bluetooth devices within reach will be listed after a short time.
- Among the available tanning devices choose "megaSun Sound". In the service menu, a trailing number (01, 02, 03, ...) can be added to tanning device name.
- If necessary confirm the shown code and connect again. Not every smart phone asks for a code.

Example - Samsung Galaxy

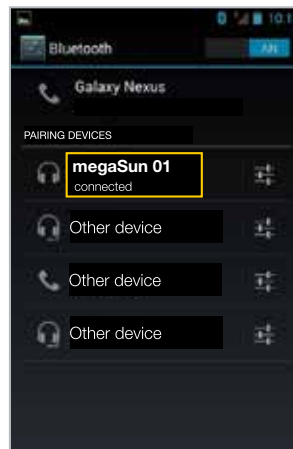


Example - Apple iPhone

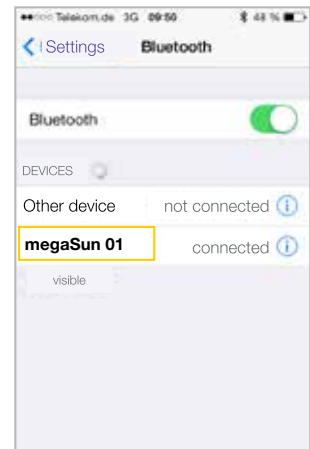


- A two-time beep indicates that your player is connected to the tanning device.

Example - Samsung Galaxy



Example - Apple iPhone



- Set your player to a **medium volume level** and start the music.
- Adjust the volume level on your player.
- During the tanning session, the volume control has to be done at the tanning device.

DISCONNECT EXTERNAL PLAYER

An existing connection is disconnected automatically after tanning.

The connection is automatically disconnected if the tanning session is not started within 6 minutes.

COMPATIBILITY OF BLUETOOTH DEVICES

KBL GmbH attaches great importance to hardware compatibility. Due to the large number of manufacturers, KBL can not guarantee a 100 % compatibility. In rare cases, it may happen that a bluetooth connection can not be established.

CORRECTIVE ACTION

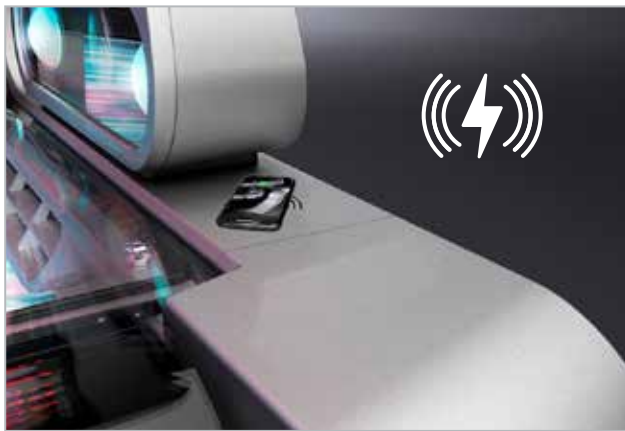
Each bluetooth device offers a list of paired devices.

Delete the older entries in this list which have a profile that overlaps with the ones for which you want to pair your player.

Start the bluetooth device detection again.

Wireless charging

A charging station for wireless charging is integrated in the right base of the tanning device. Suitable devices can be easily placed and charged here.



Start-up

Commissioning is performed by the manufacturer or qualified, trained and authorized service technicians. The tanning device is operational on delivery.

As the studio operator, you are responsible for compliance with the electrical regulations applicable at the installation location.

If the tanning device has not been used for an extended period of time, it has to be inspected by qualified, trained and authorized service technicians before it is put back into operation.

BEFORE SWITCHING ON FOR THE FIRST TIME

- Fix the supplied warning sign or one with the following wording permanently to the wall close to the tanning device:

Warning

- UV-radiation can cause eye and skin damage as well as skin aging and possibly skin cancer. Ask the studio staff for further information.
- Wear protective goggles.
- Certain medicines or cosmetics can increase the sensitivity of the skin to UV radiation. If in doubt, consult a physician.

- Determine the pre settings for the tanning device in the service menu.
- Check correct installation of fluorescent tubes. The tube labelling must be visible, otherwise no tanning effect may be obtained.
- Store these Operating Instructions in a place that allows for easy access at any time.

Operating modes

STANDBY MODE

The tanning device is in an idle state, i.e. it is connected to the mains but is currently not being used. The tubes and the tanning lamps are switched off. From the standby mode, you can change over to the tanning mode or to the service mode.

TANNING MODE

The tubes and the tanning lamps are switched on and a tanning session is in progress. While the tanning device is in tanning mode, the settings for the ongoing tanning session can be changed via the interior control panel.

SERVICE MODE

In the service mode, the tanning device is configured for the tanning mode. Various values can be displayed and test functions can be carried out.

FAN RUN-ON

After the tanning session, the fan runs on for 3 minutes in order to cool down the tanning device. The fan power is automatically decreased as the tubes cool down.

Tanning instructions

As a rule, an averagely tanning skin has achieved a uniform tan after three to five tanning sessions. These sessions should take place every second day. To preserve the suntan achieved, one or two tanning sessions per week are normally sufficient.

Instructions for the user

Observe the following tanning instructions:

GENERAL

- Any person that complies with the requirements laid down in the chapter “Intended use” may use the tanning device.
- Never exceed your personal minimum erythema dose (MED). Follow the prescribed exposure times.
- If reddening of the skin (erythema) occurs hours after tanning, temporarily stop tanning. After a week the tanning can be resumed at the beginning of the tanning table.
- If unexpected effects (such as itching) occur within 48 hours after the first tanning session, you should consult a physician before tanning again.
- Once final tanning has been achieved, additional tanning is only possible by greatly exceeding the permissible tanning times. It is essential to avoid this.
- UV-radiation from the sun or from UV-devices can cause irreversible skin or eye damage. These biological effects depend on the type and amount of radiation as well as on the individual sensitivity of the skin.
- In cases of pronounced individual sensitivity or allergic reactions to UV-radiation, a physician should be consulted before beginning tanning.
- After excessive exposure to radiation, the skin may

exhibit sunburn. Excessively repeated exposure to UV radiation of sunlight or UV appliances can result in premature ageing of the skin and in a higher risk of skin cancer.

- The unprotected eye can suffer from surface inflammation, and in certain cases, e.g. after a cataract operation, excessive radiation can damage the retina. After many repeated sessions, a cataract may form.
- Seek medical advice if persistent swellings or sores develop on the skin or if pigmented moles change in appearance.

FOR EACH TANNING SESSION

- Always wear the supplied protective goggles. Contact lenses or sunglasses are no substitute for the protective goggles!
- Remove cosmetics before tanning and do not use any sunscreen, or products that accelerate tanning.
- Allow for at least 48 hours to pass between sessions.
- After a tanning session in a studio, do not take another sunbath out of doors on the same day
- Protect sensitive areas, such as scars, tattoos, and genitalia, from radiation.

Tanning times

Please refer to the following tables for learning the individually applicable tanning times that depend on the skin type. If the tanning session sequence is interrupted for 4 weeks or more, you will have to start with the first session again.

The interval between two tanning sessions must be at least 48 hours.

The times mentioned in the tanning schedules only apply on the condition that tubes are replaced according to the maintenance intervals stipulated in the section “*Maintenance and cleaning*” (Tubes equipment see table “*Technical data*”).





EU TANNING SCHEDULE - according to UV-Type III and 0,3W/m² in compliance with EN 60335-2-27



	Skin type					
	I	II	III	IV	V	VI
1. Session	6 min	6 min	6 min	6 min	6 min	6 min
2. Session	6 min	7 min	7 min	8 min	10 min	11 min
3. Session	7 min	7 min	9 min	10 min	14 min	17 min
4. Session	7 min	8 min	10 min	12 min	19 min	22 min
5. Session	8 min	9 min	12 min	14 min	23 min	28 min
6. Session	9 min	10 min	13 min	16 min	27 min	33 min
7. Session	9 min	11 min	15 min	19 min	32 min	33 min
8. Session	10 min	12 min	16 min	21 min	33 min	33 min
9. Session	10 min	13 min	18 min	23 min	33 min	33 min
10. Session	11 min	14 min	19 min	25 min	33 min	33 min
Max. number of tanning sessions per year						
extraSun	90	71	50	38	21	21
hybridSun	92	72	50	39	22	22
smartSun	92	78	53	42	23	23

Tanning mode

	 WARNING
	<p>Excessive dose of UV radiation</p> <p>Excessively prolonged tanning sessions may cause severe damage to skin and eyes.</p> <ul style="list-style-type: none"> • Never operate the tanning device with a defective timer. • Observe the tanning times given in the tanning schedule.

There is a touch screen panel in the middle of the front part of the canopy. Depending on the configuration of the tanning device, up to eleven functions are available for you to make your choice.

Your choice remains stored for 3 minutes.

If you do not start your tanning session within this time, the system is reset to the default settings defined in the service menu.

The following explanations and functions refer to a tanning device that is fully equipped with all features.

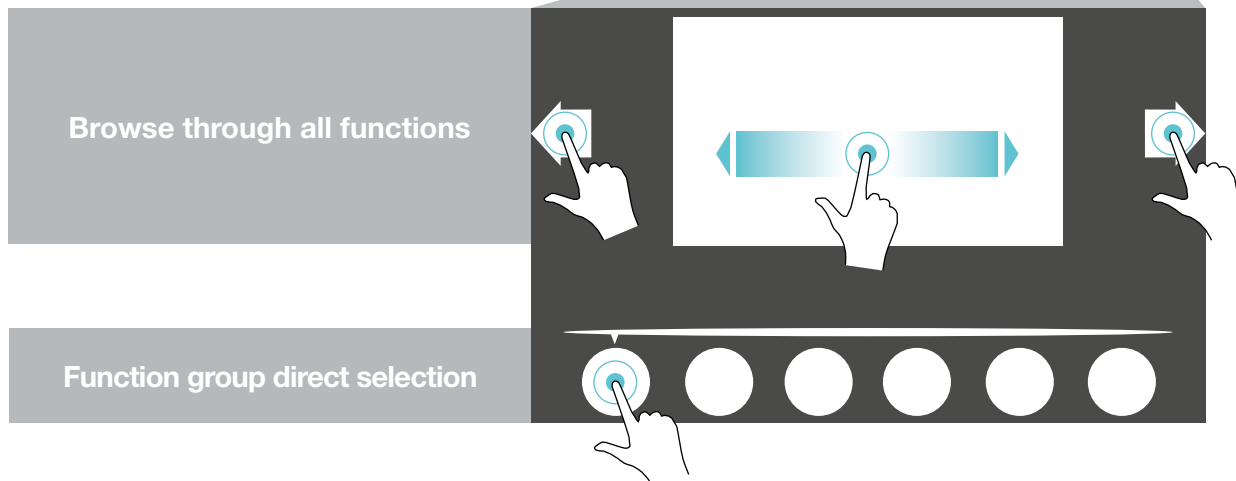
Pre selection at the touch screen

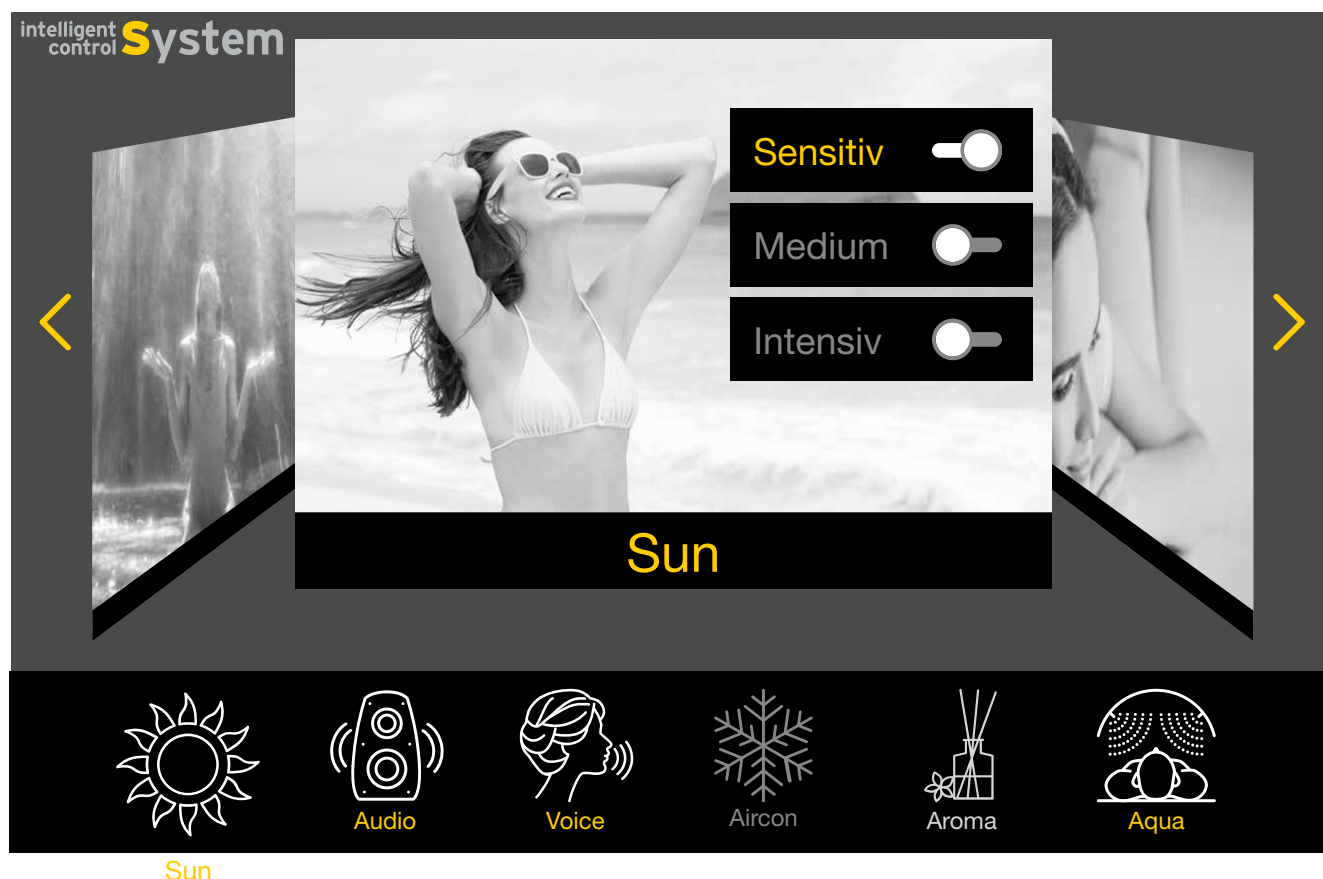
Before starting your tanning session, the touch screen allows you to choose certain tanning options in advance.

Simply select your preferences and enjoy your tanning session from the very beginning.




PRINCIPALS OF OPERATION








PRE - SELECTION OPTIONS

	sun - tanning level pre selection	
	audio - audio source pre selection	
	voice - megaVoice	on / off
	aircon - airconditioning	on / off
	aroma - aromatization	on / off
	aqua - aquaCool	on / off

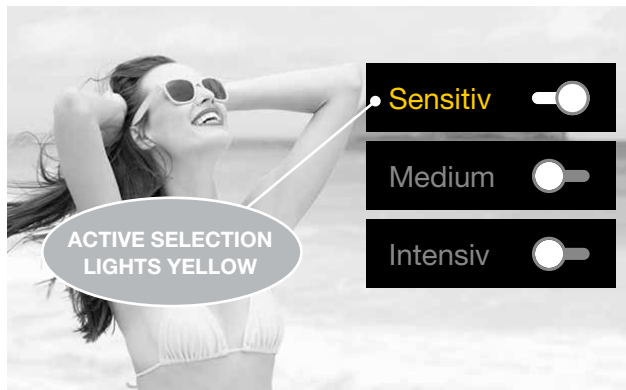
ICON STATUS (EXAMPLE)

	Active options light up in white.
	Inactive (disabled) options are dark gray.
	If the option is not available, or has not been activated in the service menu, the icon remains light gray.



- During the fan run-on the pre selection menu is blocked.
- The default settings of the pre selection menu can be determined in the service menu.

sun



Tanning level pre selection

Optimum tanning conditions are achieved by targeted influencing of the UV output.

Use the three buttons SENSITIV, MEDIUM and INTENSIV to choose your desired preset

SENSITIV

This setting enables gentle tanning and achieves a balanced tanning effect in the long term.

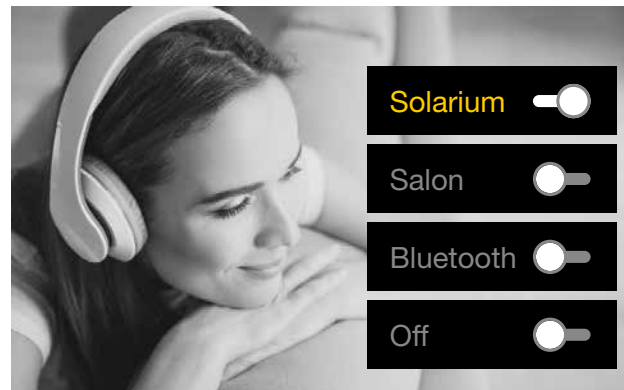
MEDIUM

Setting for a somewhat faster tanning success.

INTENSIV

Setting for the maximum available power for a quick and intensive tan.

audio



Audio source pre selection

You can pre select one out of three different audio sources.

During the tanning session, you can change the audio source any time via the interior control panel.

SOLARIUM (MP3-INTERN)

During the tanning session, you will listen to the tracks played by the internal MP3 player of the tanning device.

SALON (STUDIO)

You will listen to the music that is provided externally by the studio operator.

BLUETOOTH (MP3-EXTERN)

Use your own bluetooth player (smartphone etc.).

OFF

Music off.

voice



Switches the voice guidance (megaVoice) on or off.

aqua



Switches the aquaCool function on or off.

aircon



Switches the air-conditioning unit on or off.

aroma



Switches the aroma function on or off.

Starting the tanning session

The tanning session automatically starts after the external timer controlled delay time has expired. During the preset delay time the tanning session can be started anytime manually using the START button.

Operation during the tanning session

You can control the functions of the tanning device via the interior control panel during the tanning session. It is particularly easy for you to access the basic functions.

Additionally, you can also change the subordinate functions settings by using the interior control panel.

Buttons with recesses that can easily be sensed allow for easy operation of the system even with your eyes closed.

NOTES:

20 seconds after your last input, the interior control panel changes over to the indication of the tanning time.

An information line at the bottom edge of the interior control panel shows the current music track.



+/- BUTTONS

- Control the functions.

ARROW BUTTONS

- Select the subordinate function.

Position
Recessed button



STOP BUTTON

- Stops the tanning session.




DISPLAY

- Shows the menu items and functions.
- Indicates the tanning time.
- Information line.

START BUTTON

- Starts the tanning session during the timer controlled delay time
- as well as after an interruption caused by pressing the STOP button, provided that the booked tanning time has not elapsed yet.

Variable section of the interior control panel

During the tanning session, you continue to have access to subordinate functions. If you wish to make any changes to your choice, you can do so in the variable section of the interior control panel. By pressing one of the arrow buttons  , above or below the changeover symbol , all available functions will be displayed one after the other according to the rotation principle.

You can switch these individual functions on or off and, if possible, make changes to the settings.

















Variable section of the interior control panel

Selectable function symbols (for a fully equipped tanning device).



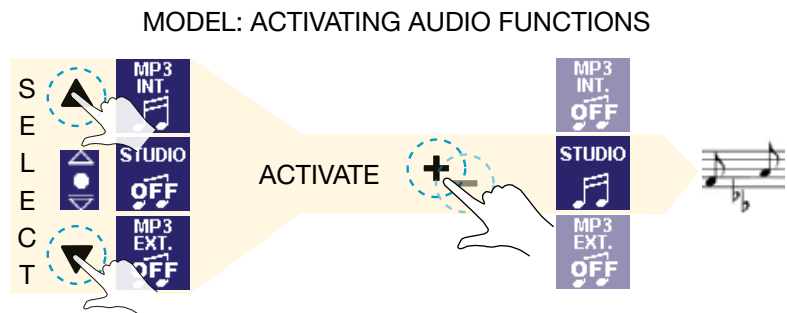
Prerequisite:

The functions must be available and activated in the service menu.

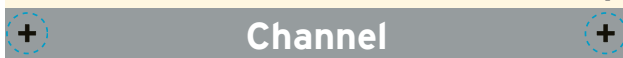
on					
<u>Air-conditioning</u>	After the air-conditioning system has been switched off, it cannot be restarted for three minutes for safety reasons. If the system is switched on during this time, the command will be stored. The air-conditioning system will be switched on automatically after a delay, i.e. after the blocking time has elapsed. If the condensate canister is full, the following symbol flashes on the interior control panel display:	<u>aquaCool</u>		<u>Aroma</u>	<u>megaVoice</u>
		An ongoing spraying process cannot be stopped. If the aquaCool supply is running low, a corresponding message is displayed in the standby mode. After the message has appeared for the first time, the aquaCool supply will last for approximately another 2.5 hours of operation. If the system has run out of aquaCool liquid, the aquaCool function is deactivated automatically, and the symbol shown below is displayed.	<u>LED booster</u>		
					
	See also the chapter "Maintenance/Air-conditioning system".	aquaCool is automatically re-activated as soon as a full canister has been connected.			
off					

AUDIO FUNCTIONS

There is a maximum of three audio sources available at the user's disposal. If you change over to another source, you must **activate** it first. The **activation** is effected by pressing the **+** or the **-** button. All inactive audio functions are marked with "OFF" on the interior control panel so that you can easily recognise the active audio source.



Variable section of the interior control panel (audio functions)



Studio



This function is used to play the studio music.

If the Studio function has been activated, you can press the plus and minus buttons to browse through the channels, provided that more than one channel is available.

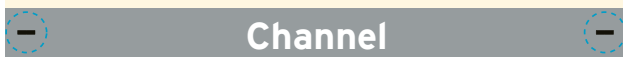
MP3 external (AUX)



You can use the "MP3 external" control element to access a smartphone via Bluetooth.

If "MP3 external" active, you can switch between the individual tracks using the plus and minus buttons.

The tracks can also be selected using the corresponding controls on the smartphone.



MP3 internal



This function is used to play the tracks of the internal MP3 player of the tanning device.

If the MP3 internal function has been activated, press the plus and minus buttons to browse through the individual tracks.



Standby mode

While the tanning device is in standby mode, you can switch the music and decorative lighting of the tanning device on and off and trigger an aquaCool spraying test (1 spraying cycle).

Service mode



For service mode information, refer to the „Maintenance & Service“ documentation.

LED boosters in standby mode

In standby mode beautyBoosters operate as decorative lighting with minimum power. In order to test or demonstrate the three different levels, lighting can be selected and activated via the interior control panel. After 10 seconds beautyBoosters automatically switch back to the decorative lighting level.



Set decorative lighting

For information on selecting the lighting programs and setting options for the Matrix Lightshow System (dynamic light), refer to the „Maintenance & Service“ documentation.

Standby functions

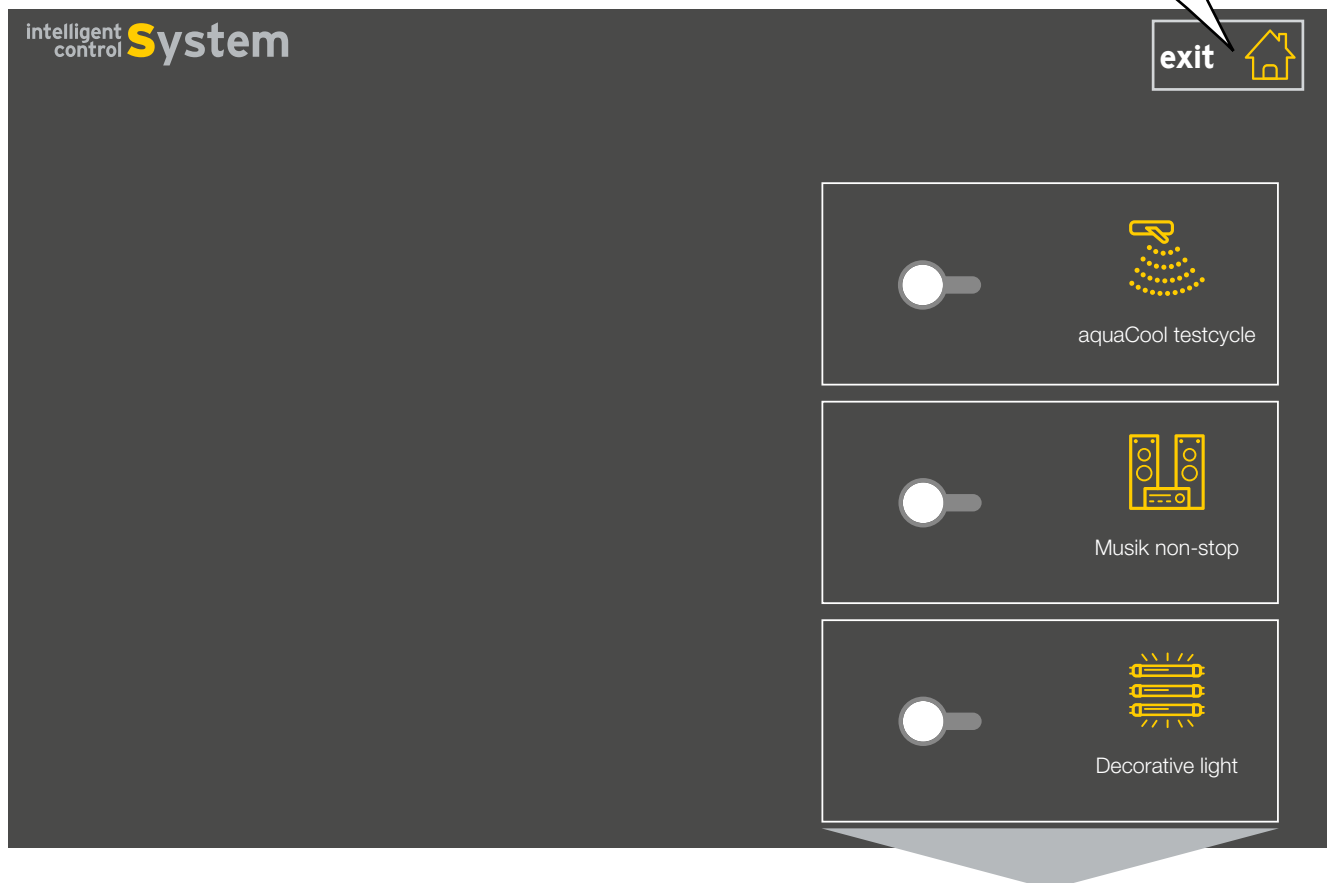


Press and hold the **logo** until the service menu start window appears.

- To access the service menu start window the external timer must be off.



Standby functions are located on the right side of the service menu start window.



STANDBY FUNCTIONS

Directly switchable:

- aquaCool testcycle
- Music nonstop
- Decorative light



- The function *Music nonstop* must be activated in the service menu.
- The connection times of the decorative lighting can be set in the service menu individually for each day of the week. There are two independent connection periods (A and B) available for each day of the week.
- For service mode information, refer to the *Maintenance & Service* documentation.

Maintenance and cleaning

Regular maintenance and care, and diligent compliance with the prescribed maintenance intervals, are essential for the safe operation of the tanning device during its service life.

⚠ WARNING

Injuries and damage caused by improper or insufficient maintenance

Improper maintenance can lead to injuries or damage to the tanning device, rendering it unusable.

- To maintain operational safety, a recurring inspection of the tanning device has to be performed every 12 months from the commissioning date by KBL Customer Service or an approved specialised firm. Inspections and maintenance must be recorded in the inspection record and log book for the tanning device! (KBL article no.: 1100117110).
- If the tanning device is in use for longer than 10 years, it must be completely overhauled by qualified, trained and authorized service technicians.
- If the tanning device has not been used for a longer period of time, then it must first be inspected by qualified, trained and authorized service technicians before being put back into operation.



- Use OEM spare parts of the same type only! The use of other parts will void the manufacturer's warranty!
- In case of damage or injury proven to be the result of the use of non-genuine spare parts any liability is excluded.
- Replace lamps only with the ones that are characterized on the tanning device. The use of other lamps will void the operating license!
- Only use original KBL ballasts for intelligent control systems and CPI tanning devices.

MAINTENANCE DOCUMENTATION

- Establish an accurate record-keeping system for service and maintenance reports.
- Ensure that all inspection and maintenance periods have been fully complied with and documented as described in chapter „Maintenance intervals“ in the operating instructions.

DISCONNECT MAINS VOLTAGE

⚠ DANGER

Live parts

Risk of death or fatal injury due to electric shock when touching live parts.

- Switch neutral
- Secure against reconnection
- Check for neutrality
- Ground and short-circuit
- Cover or shield any adjacent live parts or components

Before carrying out any maintenance work, the tanning device must be disconnected from the mains voltage and secured against being switched on again.

ADDITIONAL PROTECTIVE MEASURES

Accidental reactivation may result in serious accidents. After deenergizing, immediately secure all switches and fuses used for deenergizing against being switched on again and attach a strip of adhesive tape over the actuation lever with the wording:

DANGER - DO NOT SWITCH

A sign with the text:

WORK IN PROGRESS

Place:

Date:

Sign may only be removed by:

must always and immediately be securely mounted.

- After completing the work, refit all safety devices (e.g. switches).

Cleaning and disinfection

⚠ CAUTION



Risk of Infection.

Risk of Infection by transferring through skin contact.

- **After each session the tanning device must be cleaned and disinfected with a cleaning and disinfectant agent.**
- Use a suitable cleaning and disinfectant agent (e.g. megaClean plus) and dilute it according to the manufacturers information.
- For thorough cleaning and disinfection, the product must be allowed to remain in contact with the surface being cleaned and disinfected for a specified amount of time. This specified amount of time depends on the cleaner/disinfectant which is used. Follow the directions for use of the cleaner/disinfectant.

GENERAL INSTRUCTIONS

Before starting to clean the tanning device, take off any rings, bracelets, watches, etc. that you might be wearing, in order to avoid scratching the surfaces of the tanning device.



- Do not use concentrated disinfectant, solvent or alcoholic liquids.
- Cleaning fluid and/or disinfectant must not run into the tanning device.

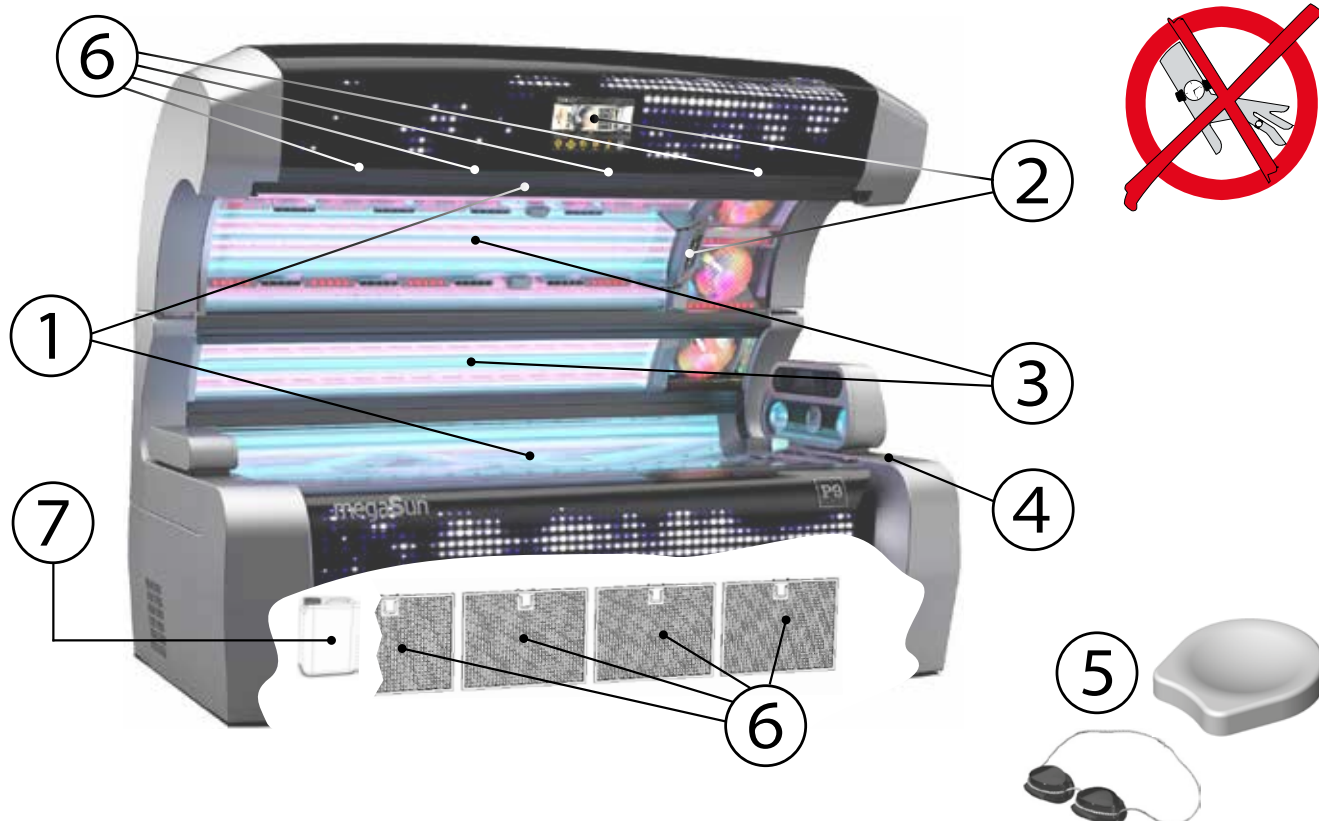
APPLICATION









These symbols have the following meaning.

Apply the cleaning agent on the chamois or cloth and not directly on the surface.



CLEANING AND DISINFECTION PLAN



	Part	Application	Cleaning and disinfection activities	Interval
1	Bench pane & handles	Directly on the surface	<ul style="list-style-type: none"> Use a suitable cleaning and disinfectant agent (e.g. megaClean plus) and dilute it according to the manufacturer's information. Use a soft, only slightly moistened lint-free cloth! For thorough cleaning and disinfection, the product must be allowed to remain in contact with the surface being cleaned and disinfected for a specified amount of time. This specified amount of time depends on the cleaner/disinfectant which is used. Follow the directions for use of the cleaner/disinfectant. Then remove the remaining cleaning and disinfecting agent. 	After each session
2	Control panels	 		
3	Canopy pane and side pane	Directly on the surface		
4	Smartphone placement area	 		
5	Protective goggle and neck pillow	 		
6	Air Filter inserts	-	Remove the inserts and rinse out under running water.	100 operating hours
7	Condensate canister	-	Empty the condensate canister if a corresponding message is displayed at the interior control panel.	-
	Tubes	 	Remove tubes and clean them with a damp chamois.	200 operating hours
	UV filter panes, facial- and shoulder tanner as well as LED boosters		Clean them with a damp chamois.	
	Chromed parts	-	Clean with a damp chamois and a cleaning agent for acrylic plastic (antistatic).	When required
	Plastic surfaces and varnished surfaces	-	Clean with a damp soapy cloth. Never clean with a dry cloth!	When required

Performing maintenance

Depending on the level of knowledge required to carry out maintenance work, it may only be done by “staff” or exclusively by “qualified, trained and authorized service technicians”!

MAINTENANCE BY STAFF

These maintenance work **may be** carried out by “staff”. All information required for this can be found in this operating instructions.

MAINTENANCE BY SERVICE TECHNICIANS

These maintenance work **must be** performed by “qualified, trained and authorized service technicians”. Instructions can be found in the documentation “*Maintenance & Service*”.

Maintenance intervals

MAINTENANCE BY STAFF

Component	After approx. 1100 operating hours	Activity
Tubes	X	Replace
aquaCool canister	Replace as soon as the corresponding message appears on the interior control panel. Replace if expired.	
Aroma tin		

MAINTENANCE BY SERVICE TECHNICIANS


Component	500 h / 6 months	1500 h / 1 Year	2000 h / 1 Year	10000 h / 4 Years	10000 h / 10 Years	Activity
Acrylic pane (bench)	X					Inspect and replace as necessary
		X				Replace
Acrylic panes (others)	X					Inspect and replace as necessary
			X			Replace
Springs of the canopy drive			X			Inspect and replace as necessary
				X		Replace
Chassis and associated fasteners			X			Inspect and replace as necessary
					X	Replace
Wiring and associated plugs / terminal connections			X			Inspect and replace as necessary
					X	Replace
Contactors		X				Inspect and replace as necessary
					X	Replace
UV-Filter Facial tanners & Shoulder tanners			X			Inspect and replace as necessary
				X		Replace
aquaCool Filter			X			Replace

Component	After approx. 200 operating hours	After approx. 500 operating hours	After approx. 1000 operating hours	After approx. 3000 operating hours	Activity
Facial tanners		X			Replace
Shoulder tanners		X			Replace
Air hoses		X			Inspect and replace as necessary
Air-conditioning unit		X			Clean the heat exchangers and check the condensate pump.
Ropes of the canopy drive		X			Inspect and replace as necessary
				X	Replace
aquaCool nozzles	X				Inspect and replace as necessary
			X		Replace




Additional or recurring inspections

Every 12 months inspection	To maintain operational safety, a recurring inspection of the tanning device has to be performed every 12 months from the commissioning date by KBL Customer Service or an approved specialised firm. Inspections and maintenance must be recorded in the inspection record and log book for the tanning device! (KBL article no.: 1100117110).
10 Years inspection	If the tanning device is in use for longer than 10 years, it must be completely overhauled by qualified, trained and authorized service technicians.
On start up	If the tanning device has not been used for a longer period of time, then it must first be inspected by qualified, trained and authorized service technicians before being put back into operation.
Protective pane-switch - Filter panes	Test the switches with each removing of UV filter panes

Maintenance by staff

	<p>Maintenance tasks for “staff” are described in these instructions! The description of maintenance tasks that must be carried out by “qualified, trained and authorized service technicians” is found in the “<i>Maintenance & Service</i>” documentation.</p>
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Tools and aids

	<p>Hexagon socket screwdriver (SW 4 / 60 mm)</p>
	<p>Finally acknowledge a process by pressing the Start button (interior control panel).</p>
	<p>Number of required staff for this maintenance task.</p>

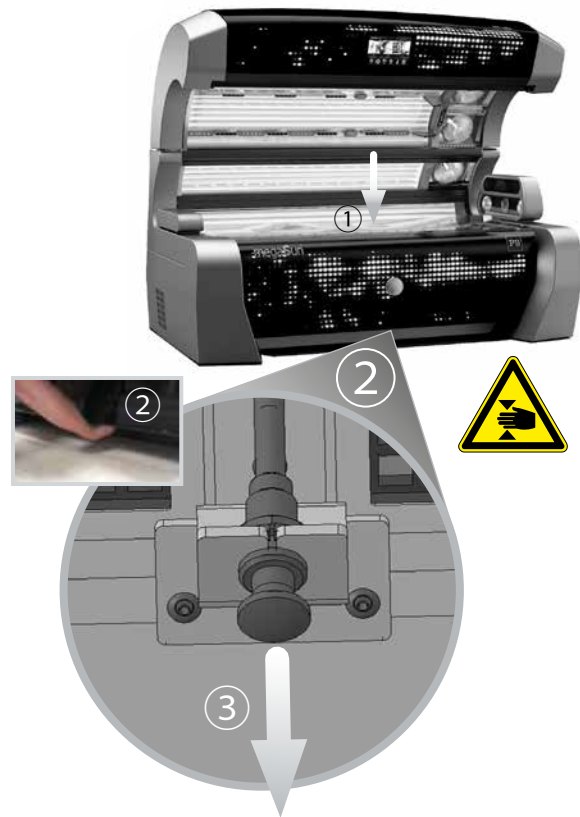
The following chapters describe the work steps required for carrying out maintenance and care actions.

At the beginning of each chapter, the required tools and aids are depicted.

- The assembly is basically carried out in reverse order of the disassembly. Exceptions are especially pointed out.
- If you open the bench part or one of the acrylic panes, you must, after closing, acknowledge a warning message appearing on the interior control panel.

Unlocking the bench

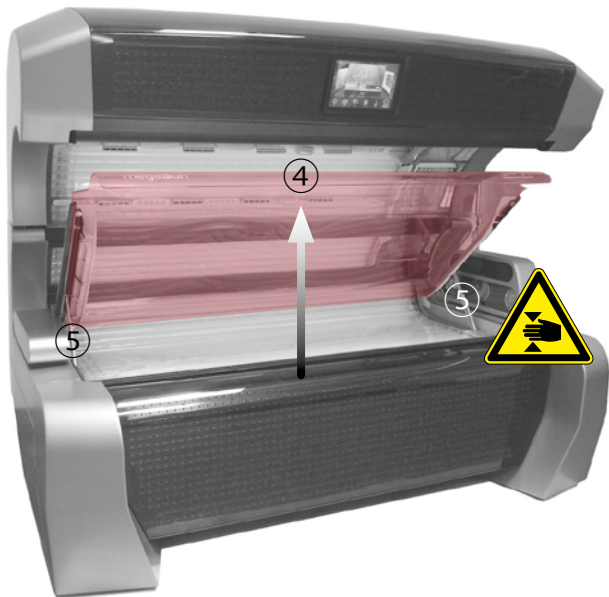
				
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⇒	Fold up the canopy.
①	Press the bench slightly downwards and keep it pressed.
②	Reach into the lower gap positioned in the middle of the front panel.
③	Drag release button.
⇒	Tilt up the bench.

Acrylic panes

TILTING UP THE BENCH PANE



- | | |
|---|--|
| ④ | Hold the bench pane in the middle of the front edge and lift it. |
| ⑤ | Lock it in place using the lateral support plates. |

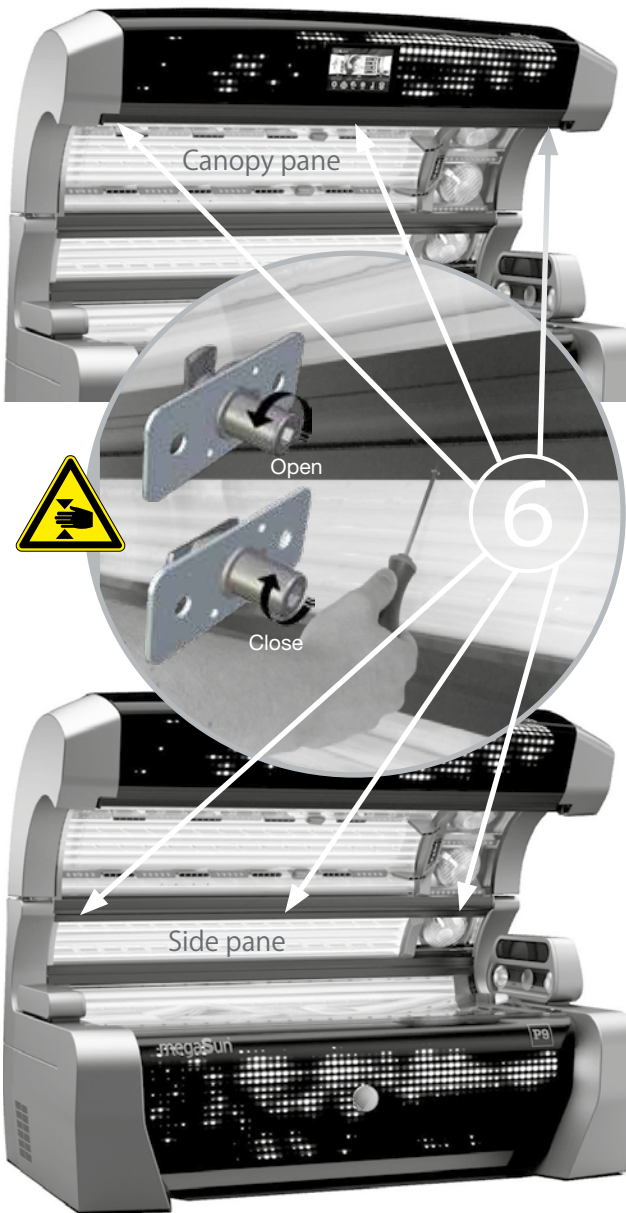
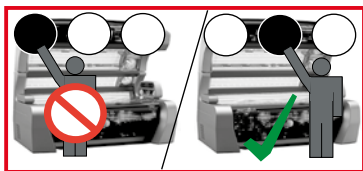
TILTING DOWN THE CANOPY PANE / SIDE PANE



Attention




Prevent the pane from falling down when opening it!.


- Open the middle pane lock at last.



- | | |
|---|---|
| ⑥ | Open the 3 locking spigots by using the hexagon socket screwdriver supplied by KBL. Observe the order! |
| ⇒ | Tilt the pane down. |

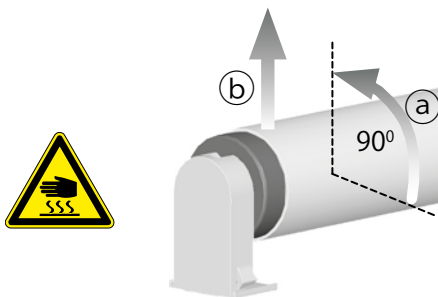
Tubes

4				
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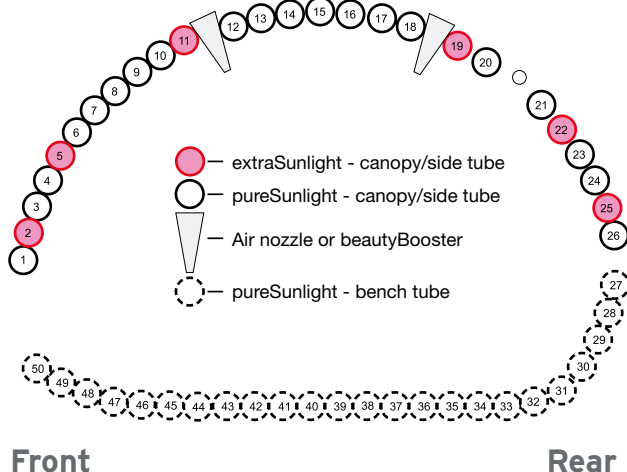


- When installing the tubes, make sure that the tube inscription is visible. If it is installed in a different position, there will be no tanning effect.
- After new tubes have been installed, the operating hours of the tubes must be reset in the service menu.

REMOVING TUBE

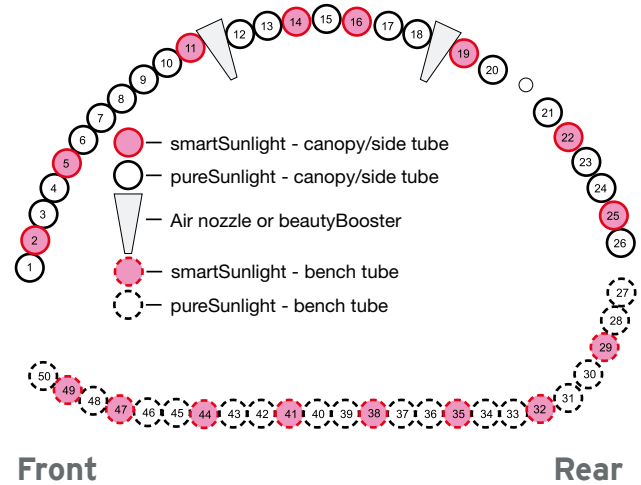


TUBE ARRANGEMENT EXTRASUN DEVICES

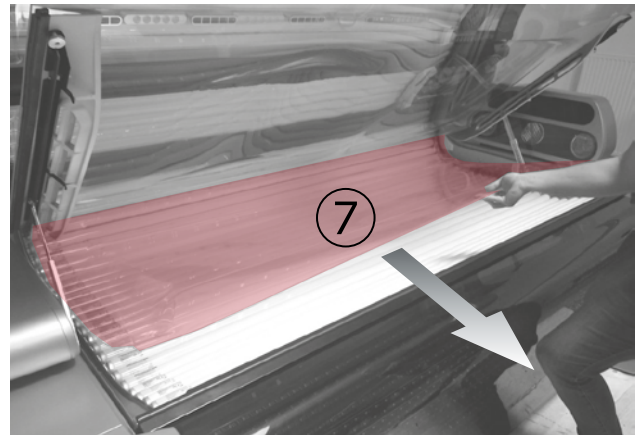


TUBE ARRANGEMENT

HYBRIDSUN DEVICES



TUBE REPLACEMENT IN THE BENCH PART



⇒ Open the bench pane.

⑦ If the tanning device is equipped with an air-conditioning unit, remove the ducting pane.

⇒ Remove the tubes.

TUBE REPLACEMENT CANOPY / SIDE PART

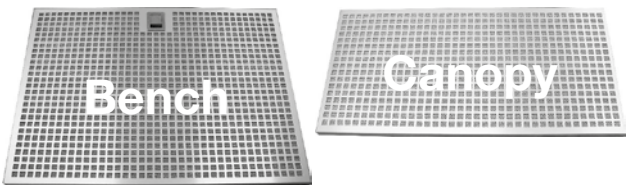
⇒ Tilt the canopy and / or side pane down.

⇒ Remove the tubes.

Filter cartridges



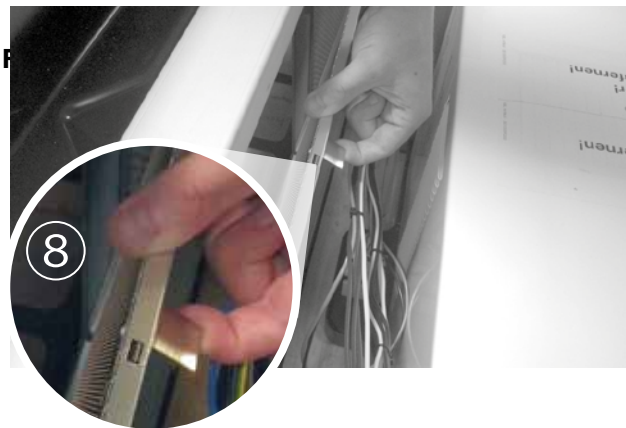
The cooling air for canopy and bench is filtered. Your tanning device is equipped with filter cartridges and continuous-service filter inserts. Therefore, purchase and replacement of conventional filter pads are not required. Clean the filter inserts after approx. 100 hours of operation, depending on the local circumstances. Vacuum the filter inserts or use a dishwasher.



There are four filter cartridges each in the canopy and in the bench part.

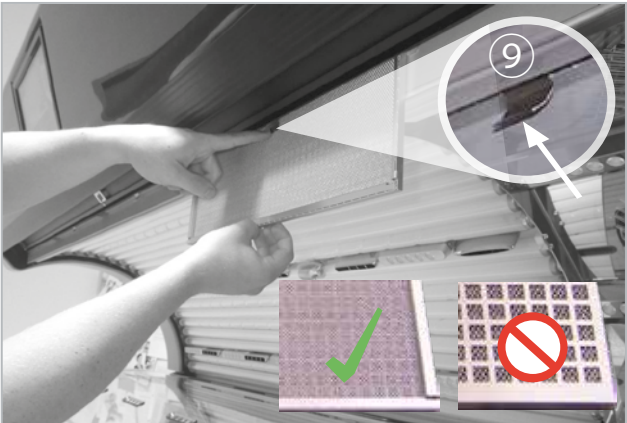
NOTE


Take the opportunity and check and clean the heat exchangers of the air-conditioning unit (See also the chapter “Maintenance/Ventilation and air-conditioning”). Soiled heat exchangers substantially reduce the performance of the air-conditioner.



⇒	Open the bench part.
⑧	Open the lock of the filter insert.
⇒	Remove the filter insert.

FILTER CARTRIDGES IN THE CANOPY PART



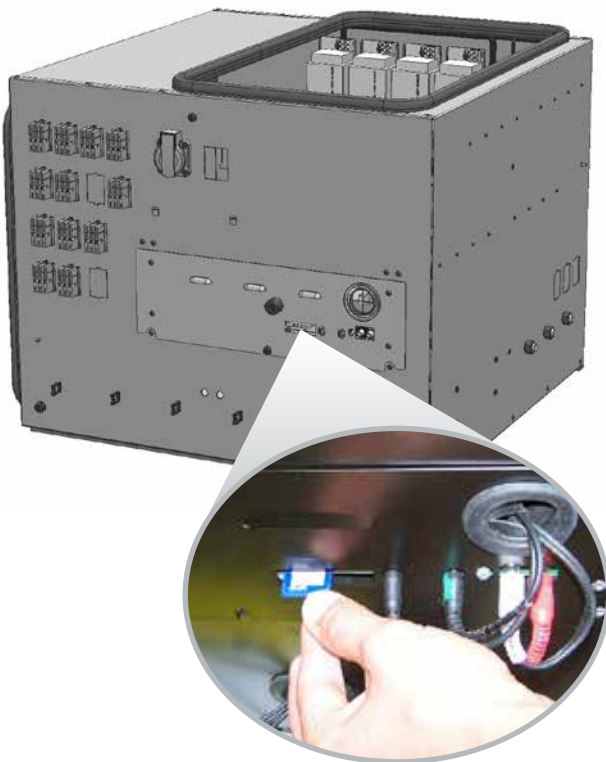
⇒	Fold down the canopy pane.
⑨	Open the lock of the filter insert.
⇒	Remove the filter insert.
	When installing the insert , make sure that the honeycomb grill is directed towards the inside.

Recording to an SD card



REMOVING THE SD CARD

The SD card slot which contains the storage medium with the MP3 data from the internal MP3 player is located at the control box in the bench part of the tanning device.



Please refer to the chapter “Technical data” for information regarding supported card sizes as well as file-system and MP3 formats. The SD card must not be formatted, the Voice folder and its contents must not be changed or deleted. Outside of this folder you can add or delete audio files as you desire. These audio tracks are played if the corresponding source has been selected. The number of files is limited by the storage capacity of the SD card.

RECORDING TO THE SD CARD



Attention!

- Do not modify or delete the VOICE folder or the data it contains.



Insert the card into the computer and wait for it to be recognised.



Copy files to SD card, or delete files from it.

Aroma and aquaCool



CAUTION

Health hazard

Bacteria growth due to improper handling and care can cause skin rashes and other allergic reactions.

- Use only aquaCool and Aroma-Gel supplied by KBL.
- Take note of the expiry date and the information regarding transport and storage on the containers.
- Do not decant residual amounts from the old container into the new container.
- If aquaCool is not used for one week, clean the system before the next application. Use the KBL cleaning set 5100003061 for this purpose.



Function of system impaired. Do not use any agents other than aquaCool and Aroma gel supplied by KBL.

REPLACING THE AQUACOOL CANISTER

- If the fluid level drops to a minimum, a message appears at the interior control panel.
- If the aquaCool canister is empty, corresponding messages are displayed, and aquaCool switches off



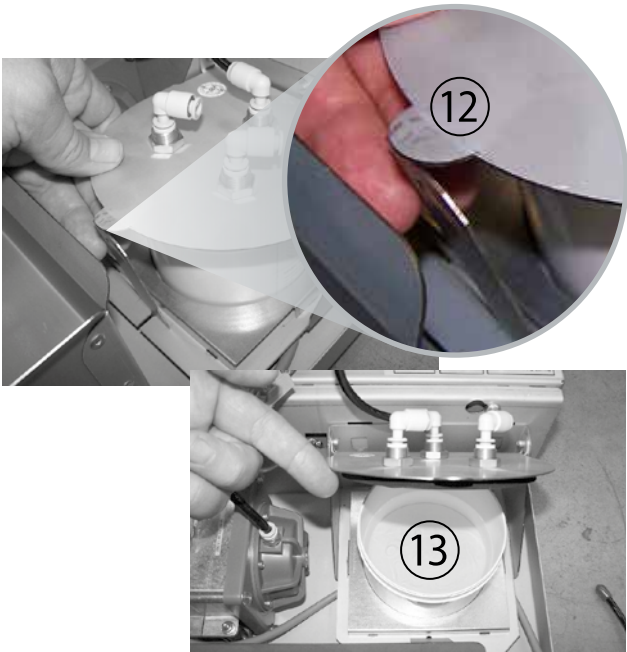
Due to the system a residual amount remains in the canister.



⇒	Open the bench part.
⑩	Unscrew the lid.
	Keep the hose end including the lid in a clean plastic bag while replacing the canister.
⑪	Replace the canister.
⇒	Start aquaCool initialization (service menu).

REPLACING THE AROMA TIN

When the Aroma tin is empty, a corresponding message is displayed.



⇒	Open the bench part.
⑫	Unlock the retaining bracket.
⑬	Replace the tin.
⇒	Reset the Aroma counter in the service menu to 0 (Reset). Then the message on the interior control panel will disappear.

System messages

ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing START on the interior control panel.			
No.	Status message	Description	Remedy
01	Excess temperature bimetal	Bimetal switch triggers.	Check the air-intake/air-exhaust system. Let the tanning device cool down.
02	Maximum tanning time!	Enabling signal from coin-box system comes in longer than the time value approved under "Maximum tanning time" (voltage remains connected)	Disconnect from the coin-box system.
03	Excess temperature exhaust fan, please check	Bimetal switch in the fan triggers.	Make sure the fan runs freely. Check the air-intake/air-exhaust system. Let the tanning device cool down.
04	Connection fan speed control faulty	Faulty communication between Mainboard and fan-speed control.	Check / replace the patch cable.
08	Canopy pane open, please close	Contact of the canopy pane has triggered.	Close the canopy pane and check the contact.
09	Side pane open, please close	Contact of the side pane has triggered.	Close the side pane and check the contact. If the fault persists, contact your Customer Service.
10	Bench / bench pane open, please close	Contact of the bench pane has triggered.	Close the bench / bench pane and check the contact.
11	Excess temperature bimetal x-tra Tan	Bimetal switch in the shoulder tanner triggers.	Check the ventilation system of the shoulder tanner. Let the tanning device cool down. If the fault cannot be eliminated in this way, contact your Customer Service.
12	KBL7 Hardware error Input-Controller	Mainboard defective.	Contact your Customer Service.
13	Maximum write cycle flash memory reached	Maximum write cycle flash memory reached.	Contact your Customer Service.
14	Error! SD card read error (CRC fault)	Update via SD card failed (CRC fault).	SD card check / replace.
15	Error! No access to the SD card	Update via SD card failed (access error).	SD card check / replace
17	Parameter storage not found, please connect and restart	Parameter storage not found, please connect and restart.	Check connector parameter storage. If necessary replace parameter storage.
18	Parameter storage no valid serial number	Parameter storage no valid serial number.	Contact your Customer Service.
19	CAN-BUS: Interior display V1 is incompatible	CAN-BUS operators incompatible.	Use CAN-BUS operators V2.
20	CAN-BUS: preSelection display V1 is incompatible		
21	CAN-BUS: audio module full V1 is incompatible		
22	CAN-BUS: RGB module V1 is incompatible		
23	Parameter storage write error	Parameter storage write error.	Check connector parameter storage. If necessary replace parameter storage.
24	Parameter storage read error	Parameter storage read error.	Check connector parameter storage. If necessary replace parameter storage.
25	Frequency detection: detection failed!	Frequency detection failed.	Restart the controller. Contact your Customer Service after the third unsuccessful restart.

ERROR MESSAGES

After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior control panel.

No.	Status message	Description	Remedy
26	Frequency detection: power supply connection faulty (connector X6/E6)!	Frequency detection failed. No mains voltage.	Check mainboard connector X6/E6.

INFORMATION MESSAGES

No.	Info. message	Description	Remedy
203	Fill level aquaCool canister low	The content of the aquaCool canister is sufficient for another 2.5 hours of operation with a spraying time of 6 seconds each.	Replace the empty aquaCool canister with a full one. Do not replace aquaCool with any other liquid.
204	Connection aquaCool unit faulty	Communication between control and module/interior control panel has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
205	Connection audio module faulty		
206	Connection inside display faulty		
207	aquaCool canister empty	aquaCool canister empty.	Replace the aquaCool canister with a full one. See chapter: Refilling Aroma and aquacool
208	Aroma supply low, please renew	System has run out of scent.	Replace the Aroma tin. See chapter: Refilling Aroma and aquacool
209	aircon: condensed-water canister full, please empty	Condensate canister of air-conditioning unit full.	Empty the condensate canister of the air-conditioning unit, acknowledge the message by pressing START.
210	Low battery charge, please renew	Button cell (CR-2032) of the control board discharged.	Replace the button cell (CR-2032).
211	Connection preselect display faulty	Communication between control and "preSelection" control panel has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
212	Connection dynamic light faulty	Communication between controller and "dynamic light" controller has been interrupted.	
213	SD card missing	No SD card in the audio module.	Insert an original SD card. See chapter: Recording to an SD card/Removing the SD card
214	SD card unreadable	SD card defective, incompatible content.	Insert a new original SD card. Acknowledge the message by pressing START. See chapter: Recording to an SD card/Removing the SD card. If the fault persists, contact your Customer Service.
215	Connection to easy Care terminal faulty	Communication between control and easyCare terminal has been interrupted.	Check cable connections and power supply. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
216	Voltage varies, please check	Power supply to the mainboard varies	Check power supply to the mainboard.
217	No voice files on the SD card, please check.	No voice files on the SD card found.	Rebuild voice folder on the SD card. If necessary replace original SD card.
218	Connection DALI-unit faulty.	DALI-unit - CAN-BUS connection lost.	Contact your customer service.
219	Connection rubinColl unit faulty.	Driver collagen booster. CAN-BUS connection lost.	Contact your customer service.
226	Quicktest Sensortolerance OK	Sensor Quicktest log entry - No display appears - Message will be stored directly in the event log (service menu).	-
227	Quicktest Sensortolerance error		
230	Connection Bluetooth module faulty	Communication between control and bluetooth module has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
231	No display	Internal notification - stored in the error log (service technician information).	-

Technical data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation <ul style="list-style-type: none"> • Maximum relative air humidity: $\leq 70\%$ • Maximum room temperature: $\leq 30\text{ }^{\circ}\text{C}$ • Minimum height of the room: 2455 mm
Weights and measures	
Dimensions in mm (Height x width x depth)	1597 x 2397 x 1502 (when closed) 1998 x 2397 x 1502 (when open)
Bench pane max. load capacity	150 kg
Weight	approx. 785 kg (with air conditioning)
Electrical connection values	
Protective class	IP20
Mains voltage	400V / ~3N / 50Hz
Wire cross section	5 x 4mm ² Ölflex
MP3-Player	<ul style="list-style-type: none"> • Supports SD cards up to 1-2 GB (SD) / 4-16 GB (SDHC) • Supported file system (SD card): FAT16, FAT32 • Supported MP3 files: constant and variable bit rate, 96-320 Kbit/s
Fuses	Automatic fuse K-type (safety cut-out), 3-pole, 3 x 25A with residual current operated circuit breaker (RCD)
Exhaust air	
Fan	Exhaust-air socket Ø 300 -- 2150 mm (top) - Minimum exhaust air flow rate: 2250m ³ /h
Exhaust-air hose	Ø 300

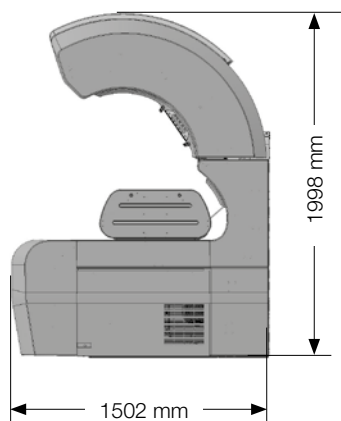
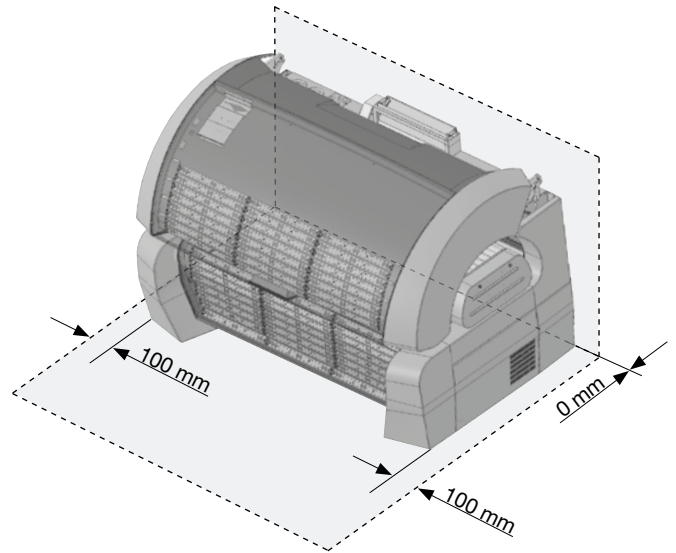
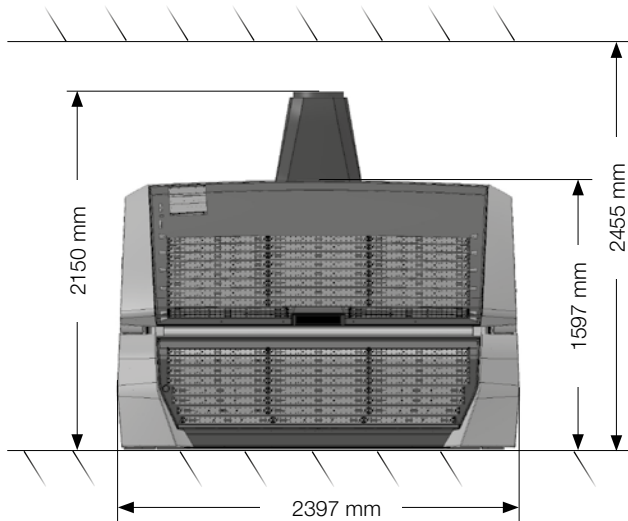
UNIT DATA - UV type 3 and 0.3 W/m² in compliance with EN 60335-2-27

P9 extraSun		Item no	Equivalency code range
Tubes	Canopy: 16x pureSunlight 1700 R 160W	3230076160	160-R-(21-28) / (2,2-3)
	4x extraSunlight 1709 R 200W	3230076169	200-R-(24-32) / (3,6-4,8)
	Side: 4x pureSunlight 1700 R 160W	3230076160	160-R-(21-28) / (2,2-3)
	2x extraSunlight 1709 R 200W	3230076169	200-R-(24-32) / (3,6-4,8)
	Bench: 24x pureSunlight 1901 R 180W	3230076115	180-R-(24-32) / (2,1-2,9)
Facial tanner	4x MS700	3230320000	-
Shoulder tanner	2x MS250	3200224000	-
LED booster	70x beautyBooster	-	-
UV-filter facial tanner	4x filter panes EVO 19176	3020019176	-
UV-filter shoulder tanner	2x filter glass bulb	3020020000	-
Nominal power	With air conditioning: 14560W / without air conditioning: 13300W		

P9 hybridSun		Item no	Equivalency code range
Tubes	Canopy: 14x pureSunlight 1700 R 160W	3230076160	160-R-(21-28) / (2,2-3)
	6x smartSunlight 1707 R 160W	3230076166	160-N-(23-30) / (2,7-3,7)
	Side: 4x pureSunlight 1700 R 160W	3230076160	160-R-(21-28) / (2,2-3)
	2x smartSunlight 1707 R 160W	3230076166	160-N-(23-30) / (2,7-3,7)
	Bench: 16x pureSunlight 1901 R 180W	3230076115	180-R-(24-32) / (2,1-2,9)
	8x smartSunlight 1923 R 180W	3230076129	180-N-(23-30) / (2,6-3,5)
Facial tanner	4x MS700	3230320000	-
Shoulder tanner	2x MS250	3200224000	-
LED booster	70x beautyBooster	-	-
UV-filter facial tanner	4x filter panes EVO 19176	3020019176	-
UV-filter shoulder tanner	2x filter glass bulb	3020020000	-
Nominal power	With air conditioning: 14560W / without air conditioning: 13300W		

UNIT DATA - UV type 3 and 0.3 W/m ² in compliance with EN 60335-2-27			
P9 smartSun		Item no	Equivalency code range
Tubes	Canopy: 20x smartSunlight 1707 R 160W Side: 6x smartSunlight 1707 R 160W Bench: 24x smartSunlight 1923 R 180W	3230076166 3230076166 3230076129	160-N-(23-30) / (2,7-3,7) 160-N-(23-30) / (2,7-3,7) 180-N-(23-30) / (2,6-3,5)
Facial tanner	4x MS700	3230320000	-
Shoulder tanner	2x MS250	3200224000	-
LED booster	70x beautyBooster	-	-
UV-filter facial tanner	4x filter panes EVO 19176	3020019176	-
UV-filter shoulder tanner	2x filter glass bulb	3020020000	-
Nominal power	With air conditioning: 14560W / without air conditioning: 13300W		

Dimensions and distances



EQUIVALENCE KEY FOR UV FLUORESCENT LAMPS

Marking of UV fluorescent lamps according to IEC 61228

Sample coding of a lamp

160-R-32 / 3,2



Use of replacement tubes.
The tanning tables referring to this tanning device are only valid as long as the system is operated with the original tube set!

Ratio of the NMSC-effective
UV irradiance $\leq 320\text{nm}$ AND $> 320\text{nm}$
(NMSC = Non Melanom Skin Cancer)

Erythema-effective UV irradiance in the range of
250-400nm in mW/m^2

Reflector types
O - For lamps without reflector
B - For lamps with reflector angles wider than $> 230^\circ$
N - For lamps with reflector angles narrower than $< 200^\circ$
R - For lamps with usual reflector angles of $\geq 200^\circ$ AND $\leq 230^\circ$

Indication of Watts (electrical power)

Remarks



The Beauty & Health Company



Ringstraße 24-26
56307 Dernbach / Germany
fon: +49 (0) 26 89.94 26-0
fax: +49 (0) 26 89.94 26-66
mail: megaSun@kbl.de

www.megaSun.de