



Optima & Optima deluxe

Operating Instructions



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General information

About these instructions

This operating manual is intended for use by

- operating staff,
- users,
- service staff.

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

This manual describes units equipped with the maximum number of features.

Keep this manual ready to hand at all times.

Transport by forklift truck

The device is mounted on a pallet.

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

Other modes of transport



Overturning load!

Danger of being crushed by heavy parts of the equipment.

Wear safety shoes.

If a forklift truck cannot be used for transport, the box must be unpacked and the parts inside 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 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.

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 device. More specific safety advice is given in other chapters of the operating manual.

Intended use

The unit 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 system:

- Persons under 18 years of age.
- Persons with heart pacemakers.
- 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 skin colour.

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

Furthermore, this tanning unit has been designed for use by individuals who are in full command of their physical, sensorial and mental faculties. Moreover, sufficient knowledge and experience are required. During the operation no other persons shell be in the radiation range of the device.

Children, should be supervised to make sure that they do not use the unit as a toy.

Duties of the operator

KBL AG cannot be held liable for any damage resulting from improper use of the equipment or non-observance of these operating instructions.

Only use original replacement parts!

Only replace tubes and high pressure lamps with those listed on the device. Otherwise, this voids the operating authorization and warranty!

Timer operation

The tanning unit must be controlled via an external timer. Should the external timer fail, an internal timer will switch off the system automatically after 44 minutes.



General safety advice

- 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 unit must only be installed and assembled by specifically trained staff.
- 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 unit must only be operated when in perfect working condition.
- Never operate the unit with the outer covers or acrylic panes removed.
- The tanning system must be controlled via a timer that complies with the generally applicable standards.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.
- Pay attention to the load limit of the bench pane (tanning bed units only).

Tanning times

Adhering to tanning times and schedules is essential.

Updating the system software

ATTENTION



Risk of damage by switching off the power supply voltage.

Disconnecting power supply during the update process, will lead to damage of electronic components.

• Make sure that the unit is not disconnected from the power supply voltage during the update.

To accomplish the update download the "USB-Connect" software offered by KBL. For detailed information press the help-button in the main menu.



Description of the unit

Standards

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

- EN 60335-2-27
- EMV 2004/108/EC
- Low Voltage Directive 2006/95/EC

Components

The tanning unit basically consists of the following components:

- The canopy including 26 tubes, max. 90 Collagen Booster and control panel.
- The bench part including 16 tubes and the electronic unit. Depending on the model also with optionally available components.

Optima

Figure 1

1	Canopy
2	Locking bar with the locks for the canopy pane.
3	Control panel
4	Collagen Booster
5	Audio console with sound system (optional equipment)
6	Bench (faceplate)
7	P2 Tube
8	Opening mechanism of the bench part
9	Bench pane
10	AquaCool - nozzles (optional equipment)
11	Canopy pane
12	Air nozzles
13	Decorative lighting
\frown	\frown





Connections

Connecting the mains voltage

Live parts

A DANGER

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

• Disconnect from mains and secure against reconnection!

Both the power supply and the related connection work must comply with national standards, e.g. those set up by VDE in Germany. The connection work must only be performed by qualified expert staff.

The connection to the 400 V mains must be protected by fuses. Their specifications are listed in the chapter "Technical data".

A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R).

Should the operation of the tanning unit cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.

Figure 2



Connecting an external audio source

When connecting an external audio source (studio music), pay attention to the correct polarity. *Figure 3*



Level adjustment

The voice / audio system components are built in the middle of the bench part (vacuum housing) of the sunbed. 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 mainly 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





Operation using different audio sources

The tanning unit can be operated using the following audio sources:

- An internal audio source
- Various external audio sources
- All available audio sources

The audio source can be changed via the control panel.

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

LINE-IN

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 players such as MP3 players, mobile phones (cell phones), I-pods, 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 service staff.

EXTERNAL PLAYERS & HEAD-/EARPHONES

A line connection has been integrated into the audio module so that the sunbed user can connect his or her own player such as an MP3 player, an iPod, etc. Take hold of the jack plug and pull the cable out of the opening. Then connect the jack plug to the earphone jack of your player. Then select "MP3 ext." as the audio source from the control panel of the sunbed before you start playing your own tracks from the player.

The tracks can only be selected via the user's own player. The volume can be controlled via the control panel of the sunbed and also via the corresponding operating elements provided by the user's player.

Either a headphone or an earphone with a 6.3 mm jack plug can be used. The corresponding connector socket is located next to the line connector. The audio signal is switched over automatically.





Connecting the channel selection

The following diagrams show the wiring of the channel selection on the audio equipment's side, for pulse coding as well as for BCD coding.



Connecting the external timer

Connect the external timer (coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring requirements with regard to the timer. The door contact is required if you have opted for the booth-scenting feature.



aquaCool and Aroma connections

AQUACOOL

The aquaCool box is equipped with a liquidlevel sensor 1 as well as with a connection to the aquaCool canister 2. Furthermore, the box houses the compressor ensuring the compressedair supply 3, and the Aroma box 4 with its related connections.

Figure 9



1	Connector (liquid-level monitoring)
2	Connection to aquaCool canister
3	Compressor with compressed- air connection
4	Aroma box



AROMA

The Aroma box is attached within the aquaCool box and equipped with three hose connections, one for the compressed-air supply (5) and two leading to the Aroma nozzles (6).

Figure 10





Start-up

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 unit:

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 presettings for the device in the service menu.
- Check correct installation of fluorescent tubes. The tube labeling 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

The three different operating modes are explained below:

STANDBY MODE

The unit 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 unit is in tanning mode, the settings for the ongoing tanning session can be changed via the control panel.

SERVICE MODE

In the service mode, the 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 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.

NO SUNSCREEN WITH PROTECTION FACTOR

Sunscreens with sun protection factors are unsuitable for use in a tanning salon. For tanning, the skin should have been thoroughly cleaned and be dry. For optimum skin care, we recommend using our line of body-care products after tanning.

GENERAL

- Any person that complies with the requirements laid down in the chapter "Intended use" may use the 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 dama. These biologi-

cal 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.
- Only use radiation appliances of UV type 4 after consulting a doctor.

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. For the precise definition of the skin types, please refer to the supplied skin-type table. 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 dealing with maintenance.

1000	Skin type					
Sec. Sec.	I	Ш	Ш	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	39 min
8. Session	10 min	12 min	16 min	21 min	36 min	44 min
9. Session	10 min	13 min	18 min	23 min	40 min	50 min
10. Session	11 min	14 min	19 min	25 min	44 min	> 55 min
Max. number of tan- ning sessions per year	81	63	47	35	20	16

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



Tanning mode



🔔 DANGER

Excessive dose of UV radiation

Excessively prolonged tanning sessions

may cause severe damage to skin and eyes.

- Never operate the solarium with a defective timer.
- Observe the tanning times given in the tanning schedule.

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

Starting the tanning session

The tanning session will commence automatically after the warm-up time controlled by the timer has elapsed. During the warm-up time, the tanning session can be started manually at any time by pressing the START button.

Operation during the tanning session

You can control the functions of the sunbed via the control panel during the tanning session. It is particularly easy for you to access the basic functions. 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 display changes over to the indication of the tanning time.

An information line at the bottom edge of the display informs you about currently selected features.



Indicates the tanning time.

Information line.

 as well as after an interruption caused by pressing the STOP button, provided that the booked tanning time has not elapsed yet.

mega₅un

During the tanning session, you need quick access to basic functions such as volume control, body fan and collagen boosters.

You should also be in a position to change the subordinate functions.

The control panel caters for both requirements. You have

Variable section of

the control panel

- direct access to frequently needed functions via the "Basic functions" section, and
- access to the subordinate functions you made via the variable section of the control panel (display according to the rotation principle).

Basic functions



During the tanning session, you continue to have access to the subordinate functions. If you wish to make any changes, you can do so in the variable section of the control panel. By pressing one of the arrow buttons (\blacktriangle) $(\mathbf{\nabla})$, above or below the changeover symbol $[\mathbf{Q}]$, 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.

The basic functions portrayed here refer to a fully equipped tanning bed. If you have chosen a simpler equipment package, functions from the variable operating elements automatically take the place of the missing basic function.

Prerequisite:

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

Selectable function symbols (for a fully equipped unit)





Functions overview







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 display so that you can easily recognise the active audio source.

MODEL: ACTIVATING AUDIO FUNCTIONS



Variable section of the control panel (audio functions)





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.



The audio module of the sundbed is equipped with a cable with a 3.5 mm jack plug so that you can make use of external players, such as MP3 players, iPods, etc.

In this way, you can connect the headphone jack of your player to the tanning system.

Use the corresponding operating elements of the external player in order to select the desired tracks.



Channel

This function is used to play the tracks of the internal MP3 player of the tanning unit, the respective first title being selected by a random generator.

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



Standby mode / service mode

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

When the unit is in service mode, you can make the presettings for operation in tanning mode, and you can have values concerning the operation of the sunbed displayed.

Layout of the display numbers

The buttons of the interior display are allocated double functions. In addition to the standard operating elements, they stand for numbers that, in standby mode, provide access to standby and service functions. Simply enter the corresponding sequence of numbers on the display.



Switching the decorative lighting on and off



<u>NOTE</u>

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.

Collagen boosters in standby mode

In standby mode, the collagen boosters work as decorative lighting with minimum power. For testing and demonstration purposes the three operating modes can be activated via the control panel. After 10 seconds, the boosters automatically switch back to the decorative mode.

aquaCool spraying test

Invoking the service menu 1610000 PIN

<u>NOTE</u>

Do not let too much time pass between the individual keystrokes when entering a sequence of numbers!



Service menu - Basics

In standby mode, the service level is accessed by entering "161", followed by PIN "0000". There is one additional condition that must be fulfilled:

• No incoming signal from the coin-box system.

SERVICE MENU - STANDARD OPERATING ELEMENTS

After having entered the service PIN, the service menu is at your disposal. Navigation is made via the following buttons (see also chapter: Layout of the display numbers):

- Use buttons 4 (UP) and 9 (DOWN) to browse through the individual menu items and functions.
- Press the START/ENTER button to go to the corresponding submenu.
- Button 2 and 7 are used to switch functions on and off and to modify values.
- Press 3 (STORE) to save all modifications made in all menu items.
- Press 8 (EXIT) to go back to the previous menu level or to exit the service menu.



SERVICE MENU - BASIC OPERATION

The service menu is divided into the main menu and subordinate groups of functions.

If you choose a menu item, e.g. "AUDIO", you will get access to all functions related to this item.



• Select the desired function group from the main menu by pressing the 4 (UP) or the 9 (DOWN) button. The currently selected group is highlighted.

• Press the START/ENTER button to access the desired group menu.



• The currently active function (circle) is displayed in the centre line on the left-hand side. You can invoke further functions of this group by pressing 4 (UP) or 9 (DOWN).





CHANGE SETTINGS

Depending on the respective function, you can change values, select options and switch functions on or off. To do so, use the buttons 2 (+) and 7 (-).



STORE & EXIT

- Save your settings by pressing the button 3 (STORE). If you fail to do so, the system will not take over the changes you made. -> See also chapter "Service Menu - Timeout".
- By pressing the STORE button, you save all changes you have made in all menu items.



 By pressing 8 (EXIT), you go back to the previous menu level, or you exit the service menu.





SERVICE MENU - TIMEOUT

After performing your last operating action, you have 2 minutes left to save the changes you have made. Then, a prompt appears and all changes are automatically discarded after an additional 20 seconds.

SERVICE MENU - AUDIBLE SIGNALS

For user convenience, operation and storage processes are acoustically acknowledged in different ways:

Operation process	->	short sound
Storage process	->	long sound





KBL-7

Service menu - Overview

VERSION: 03.62

1. ENVIRONMENT

Language ① Contrast ② TIME AND DATE ③ TIMER DEKOLIGHT ④ Maximum tanning time ⑤

2. HOUR METERS

Operating hours overall (6) Operating hours tubes (7) Operating hours facial tanner (8) Number of sunbaths (9)

3. PRESELECT

UV-Typ (1) Audio (1) Voice (megaVoice) (1) Aircon (aircondition) (1) Aroma (1) Aqua (aquaCool) (1)

4. AUDIO

MP3 internal 16 megaVoice 🕖 megaVoice language 18 Studio Line-in 19 usb MP3 @ MP3 external (Line in) @ Studio channel selection 22 Number of studio channels (3) Music nonstop 24 Nonstop music source 3 Default volume tanning 26 Default volume standby 10 Maximum adjustable volume a megaVoice volume adaption 29 Dynamic volume adaption 30 Treble MP3 - USB 31 High bass MP3 - USB 32 Low bass MP3 - USB 33 Volume adaption Studio Line-In 34 Treble studio line-In 33 High bass studio line-in 36 Low bass studio line-In 37

5. AQUA

aquaCool ⁽⁸⁾ aquaCool spray time ⁽⁹⁾ Cycle time ⁽⁰⁾ aquaCool start test cycle ⁽¹⁾ aquaCool endurance test ⁽²⁾ aquaCool start initialization ⁽³⁾

6. AROMA

Aroma (4) Aroma status reset (6) Cycle time (6) Aroma cabin automatic (7) Aroma cycles per hour (8) TIMER AROMA (9) Aroma start test cycle (9)

7. AIR CONDITIONING

Air condition (9) Start level body fan (9)

8. RGB

RGB mode 53

9. EASYCARE

SETTINGS easyCare mode only (EConly) @ man. time config (T.Display) easyCare tanning time Adjust Set value quicktest Melanin min value Melanin min value Melanin min runtime Sensor-check Volume

10. UV-LEVEL

11. SERVICE

Load factory defaults @ Personal PIN @ FIRMWARE-TYP @ FIRMWARE-VERSIONS @ SOFTWARE UPLOAD @ RGB-Setup @ SERVICE MODE Service mode without tanning @ Service mode with tanning @ SOLARIUM IDENTIFICATION @ SOLARIUM X-CODE @ Reboot @

12. EVENT LOG 73



Personal PIN

In delivery condition some menu items are protected by a factory PIN. Optionally, the factory PIN can be replaced by a "Personal PIN".

- You will receive the "Personal PIN" with the product documentation.
- The personal PIN may be activated or deactivated by selecting the "SERVICE/Personal PIN" setting in the service menu.



Every software update deactivates the "Personal PIN".



"Personal PIN" secured menu items may be identified by the personal PIN logo as given in the service menu.

Service menu - options



• In order to avoid operating errors, read through the basics at the beginning of the "Service Menu" section.

- Always remember to save your settings by pressing STORE.
- All menu items that comprise further submenus are displayed in CAPITAL LETTERS.

1	+ STORE ENVIRONMENT Language	UP	01/05
> German > English	> EXIT	DOWN	1
Sets the language of	the menu.		

Factory setting: German

2	+ STORE ENVIRONMENT Contrast	UP	02/05
> 0000000030	- EXIT	DOWN	1
Sets the contrast of	the display.		

Factory setting: 00020





The menu item "Timer decorative lighting" offers you two switching cycles (A and B) for each day of the week.





NOTE - SWITCHING CYCLES

Using the setting "monday-sunday", the switching cycle will be the same for each day of the week.

megaSun







Indicates the number of tanning sessions (sunbaths) and includes a reset function.

Under the menu item "PRESELECTION" you can make the initial settings for the device. The functions must be available and activated in this service menu (6/17/19/38/44/ 59.





Determines the start setting of the audio source.

Factory setting: MP3-internal



Specifies the start setting of the voice-guidance system.

Factory setting: on

(13)	+ STORE PRESELECTION Aircon (Airconditio	UP 04/06 on)
>on >off	> - EXIT	DOWN

Fixes the start setting of the air-conditioning system.

Factory setting: on

14	Aroma	05706
>on ∖off	- EXIT DOWN	

Defines the start setting of Aroma.

Factory setting: on



Specifies the start setting of aquaCool.

Factory setting: on



Activates and deactivates the internal MP3 player.

Factory setting: off



Activates and deactivates the voice-guidance system (megaVoice).

Factory setting: on





> English > German > ...



Fixes the language setting of the megaVoice system. The following languages are fully supported: GB,RU,DE,FR,IT,PL,CZ,NL,HU,BG,HR,RO,RS,SK The following languages are supported in part: DK,EE,LT,NO,ES,SE,TR (without easyCare)

Factory setting: Depending on the operator country



Activates and deactivates the Studio (line-in) audio signal.

Factory setting: on



Activates and deactivates the line-in connection (bench part, right-hand side of the head end) for units from standard-line level to low loudspeaker levels (MP3 player, iPod, etc.).

Factory setting: on



Allows for the change-over between pulse-code and BCD-code mode with the Studio signal pending and deactivates the external-channel selection.

Factory setting: bcd



If bcd has been preselected, the number of channels available in the studio is specified here.

Factory setting: 4



If this function is active, music is played nonstop, i.e. also out of tanning sessions.

Factory setting: off



Allows for choosing the permanent audio source for the "Music nonstop" function".

Factory setting: MP3-internal



26	+ STORE UP AUDIO 11/22 Default volume tanning
>09	EXIT DOWN

Sets the volume for the tanning mode.

Factory setting: 6



> 0 ... 9

+ STORE UP AUDIO 12/22 Default volume standby > - EXIT DOWN

Sets the volume for the standby mode.

Factory setting: 3



Presetting the maximum adjustable sound level, limits the maximum adjustable sound level in the operating and standby mode.

Factory setting: 9



Here you can adapt the volume of megaVoice.

Factory setting: +00 dB



Factory setting: on



Sets the treble for MP3 - USB operation.

Factory setting: 00 dB

32	+ STORE UP AUDIO High-bass MP3 - USB	17/22
>-14+14 dB	> EXIT DOWN	

Sets the high-bass for MP3 - USB operation.

Factory setting: 00 dB

33	+ STORE UP AUDIO 18/22 Low-bass MP3-USB
>-14+14 dB	> EXIT DOWN

Sets the low-bass for MP3 - USB operation.

Factory setting: +07 dB



Here you can adapt the volume of studio line-in signal.

Factory setting: +00 dB



Sets the treble for studio music operation.

Factory setting: 00 dB







(42)	+ STORE UP AQUA aquaCool endurance test	05/06
>on >off	>EXITDOWN	1

Starts the aquaCool endurance test. After having selected and stored the "on" setting, you must leave the service menu and start a tanning session. Attention! aquaCool will continue to spray permanently during a whole tanning session.



Starts the aquaCool initialization process. A spraying cycle of 90 seconds is started to bleed the system before commissioning, after a repair operation or after a canister replacement.



Activates and deactivates the aroma function.





aquaCool or disabled aquaCool.

Factory setting: 1



The cabinet scent release can be set at intervals, controlled by a door contact switch, or completely deactivated.

Factory setting: off



For interval operation of the cabinet scent released, the number of scent releases per hour can be set here.

Factory setting: 3

The menu item "TIMER AROMA" offers you a switching cycle for each day of the week.



	Switching cycle
Manday	ON
Monday	OFF
Tuesday	ON
Tuesuay	OFF
Wedneedey	ON
weathesday	OFF
Thursday	ON
Thursday	OFF
Friday	ON
Friday	OFF
Caturday	ON
Saturday	OFF
Sunday	ON
Sunday	OFF



NOTE - SWITCHING CYCLES

Using the setting "monday-sunday", the switching cycle will be the same for each day of the week.





Starts the Aroma test (1 cycle). 51 Starts the Aroma test (1 cycle). AIR CONDITIONING 81/92 Aircon (air conditioning) > on > off Switches the air-conditioning unit on and off. Factory setting: on

Aroma si

STORE

Start: press `+` for 2s

FXIT

testcycle

DOW

07/07

52	+ STORE UP AIR CONDITIONING Start level body fan	02/02
>19	> EXIT DOWN	

Specifies the "start speed" setting of the body fan at the beginning of the tanning.





The easyCare menu item is only available with CPI Energy and intelliSun sunbeds that are connected to an easyCare system.

PIN	+ STORE EASYCARE SETTINGS > press ENTER	UP 81/03
Submenu SETTING Invoked by pressing START (ENTER).	S.	ST. CL
	EASYCARE SE	SUBMENU ETTINGS
easyCare man. time easyCare Adjust Set value Melanin n Melanin n	mode only (ECc e config (T.Displa tanning time quicktest nin value nin runtime	only) ay) 3
54	+ STORE EASYCARE\SETTIN easyCare mode or	UP GS 01/07 hly (eonly)
> on-US > on > off	> EXIT	DOWN
If this function is acti ly carried out on the by the easyCare sy is required for opera	ive, the tanning s basis of the valu stem. The adjus ation in the Unite	ession is strict- ues determined tment "on-US" d States.
Factory setting: De	pending on the o	perator country
55	+ STORE EASYCARE\SETTIN man. time config	UP IGS 02/07 (TDispl.)
>on >off	> - EXIT	DOWN
If this function is a entered at the easy(be adapted automa	ctive, the tannin Care unit. The tan tically.	ig time can be ning power will
Factory setting: off	F	



Allows for preselecting the tanning time. The tanning power will be adapted automatically.

Factory setting: 20 min





Factory setting: 244

















Lists the latest 99 events (error codes & infomessages). Detailed information is available by pressing the Start button.

Example:

<u>no.</u>	time	date	code	tanning time
001	16:44	05.01.09	0011	03:23
002	15:22	05.01.09	0002	07:22
003	10:07	22.12.08		
004	17:16			
005				
099				



Maintenance and cleaning

Regular maintenance is required for the safe operation of the tanning unit and must be documented. Cleaning must be performed when necessary.



Live parts

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

A DANGER

• Disconnect from mains and secure against reconnection!



• USE ONLY ORIGINAL SPARE PARTS.

 Replace illuminants only with ones wich are characterized on the device.

Instructions for cleaning and care

GENERAL

- Before starting to clean the unit, take off any rings, bracelets, watches, etc. that you might be wearing in order to avoid scratching the surfaces.
- Cleaning fluid must not run into the appliance.

TUBES

• To preserve the tanning power, we recommend cleaning the tubes and UV lamps with warm water and a chamois after approx. 200 hours of operation.

ACRYLIC PANES, GRAB HANDLES AND DOOR HANDLES

• If possible, use the special cleaning and disinfectant agent "megaClean" supplied by KBL for cleaning the acrylic parts and handles, and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

- Use a damp soapy cloth to clean the varnished and plastic surfaces.
- Do not clean the large plastic parts with a dry cloth. This might scratch the surfaces!

CHROMIUM-PLATED PARTS/MIRROR

 Only clean with a damp chamois and a cleaning agent for acrylic plastic (antistatic). Apply the cleaning agent onto the chamois and not directly onto the mirror surface.

CLEANING AGENTS

• The surfaces and the acrylic panes must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!



Maintenance intervals

Component/ wearing part	Cleaning/care	Replacement
Condensate tank	If a corresponding message is displayed.	When necessary
Air filter	Depending on local conditions after approx. 100 operating hours	/
Tubes	After approx. 200 operating hours	Typical value after about 800 operating hours. For further information see data sheet.
Collagen Booster	After approx. 200 operating hours	When necessary
Acrylic pane (bench)	When necessary	After approx. 1500 hours
Acrylic panes (others)	When necessary	When necessary
aquaCool nozzles	When necessary	After approx. 1000 hours
Air hoses	Check after 500 - 600 hours.	When necessary
Air- conditioning unit	Clean the heat exchangers after 500 - 600 hours and check the condensate pump.	When necessary

Tools and aids

4	Hexagon socket screwdriver (SW 4 / 60 mm) Art. No.: 3410055263
PH2	Standard Phillips screwdriver (PH2)
	Finally acknowledge a process by pressing the Start button (interior display).
	Number of required persons

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, unless the corresponding process can be carried out by one individual person without any further auxiliary equipment.



The assembly is basically carried out in reverse order of the disassembly. Exceptions are especially pointed out.



Attention

 If you open the bench part or one of the acrylic panes, you must, after closing, acknowledge a warning message appearing on the interior display.



Unlocking the bench



\Rightarrow	Fold up the canopy.
1	Reach into the lower gap positioned in the middle of the front panel.
2	Drag release button.
\Rightarrow	Tilt up the bench.

Acrylic panes



TILTING UP THE BENCH PANE

Figure 12



- front edge and lift it.
- Support the bench pane with the two lateral (4) positioners.

TILTING UP THE INTERMEDIATE PANE



Only for units with air conditioning.

Figure 13



	Lift the intermediate pane on one side in or-
(5)	der to affix the suction cup in center of the
	bench pane.
6	The suction cup is attached to the linkage of
\bigcirc	the left hand side positioner.



TILTING DOWN THE CANOPY PANE



Figure 14



	Open the 5	i locking	spigots	by	using	the
5	hexagon s	socket	screwdriv	ver	supp	lied
	(3410055263	3). Obser	ve the or	der	!	
\Rightarrow	Tilt the pane	down.				

REMOVING THE CANOPY PANE



It is not usually necessary to remove the canopy pane for maintenance and cleaning operations. Should you prefer to work with the canopy pane removed, though, please proceed as follows:

Figure 15



- (Phillips screw).
- (7)Detach the display cable.



Figure 16



\bigcirc	Reach into the rear ventilation gap positioned
0	in the middle of the pane.
9	Carefully pull the pane towards the front and out of the tanning area.
\Rightarrow	Deposit the pane in a safe place.

ASSEMBLY NOTE

Proceed in reverse order in order to re-install the canopy pane. Make sure that the profil-guide is correctly positioned.

Figure 17







When closing the canopy pane, make sure that the profil-guide is correctly positioned.

Tubes



- 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 op
 - erating hours of the tubes must be reset in the service menu.

REMOVING TUBE

Figure 18



TUBE REPLACEMENT IN THE BENCH PART



Remove the tubes.



TUBE REPLACEMENT CANOPY PART

Page 40	Tilt the canopy pane down.
\Rightarrow	Remove the tubes.

If your tanning unit is equipped with P2

P2 Tubes



tubes, maintenance and care intervals are equal to the cycles for standard tubes.

Figure 20





Danger of destruction!

When installing / dismantling the P2 tubes, pay attention to the middle holding clamp.

Collagen boosters

In the case of a defect, replacement can only be made by qualified technical personnel. Contact your service partner in this case.

Interior unit lighting

The lighting from the tanning unit is effected by high-performance LEDs. In the case of a defect, replacement can only be made by qualified technical personnel. Contact your service partner in this case.

FLUORESCENT TUBE IN THE BENCH

Figure 21



Replace tube and starter.



Filter cartridges

2						۰.
	Î	+				

The cooling air for canopy and bench is filtered. Your sunbed 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.

Figure 22



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 airconditioning"). Soiled heat exchangers substantially reduce the performance of the air-conditioner.

FILTER CARTRIDGES IN THE BENCH PART



Page 39	Open the bench part.
(12)	Open the lock of the filter insert.
\Rightarrow	Remove the filter insert.

FILTER CARTRIDGES IN THE CANOPY PART

Figure 24



12	Reach into the gap between canopy pane					
(15)	profile and handle profile.					

(14) Remove the filter insert.



When installing the insert, make sure that the honeycomb grill is directed towards the inside.



Ventilation and air-conditioning

In order to preserve the performance of the airconditioning unit, clean the heat exchangers after

500 - 600 hours of operation.

Figure 25



Page 39	Open the bench part.
(15)	Clean the heat exchanger.
\bigcirc	Vacuum it carefully, paying attention not to damage the fins.

SERVICING THE VENTILATION SYSTEM

- \Rightarrow Check all hose connections.
 - Remove any kinks in the air hoses. Replace
- \Rightarrow defective hoses immediately.



The exhaust air hose must not exceed a maximum length of 6 m if there is no auxiliary fan installed.

CHECKING THE CONDENSATE PUMP

The condensate pump (6) pumps away the condensation water at timer-controlled intervals. Check the function of this pump with each tube replacement.

\Rightarrow	Fill some water into the condensate tray \overline{v} . Use a hose and a funnel to do so.
\bigcirc	Make sure that the water does not spill over.
\Rightarrow	Start a tanning session and then wait for 20 minutes.
\Rightarrow	The filling level of the tray must then be below the pump level.



EMPTYING THE CONDENSATE TANK

The condensate pump transports the condensation water into a canister via a hose. Once this condensate canister is full, a corresponding message is displayed. The air-conditioning symbol flashes (check), and the air-conditioning unit switches off shortly afterwards.



(18)	Unscrew the closing lid of the condensate
	canister.
(19)	Empty the condensate canister.
	When closing, make sure that the condensate
\odot	hose is inserted a max. of 50 mm into the
	canister.
\Rightarrow	Finally, acknowledge the aircon message on
	the display (START).

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 sunbed. Figure 27



Please refer to the chapter "Technical data" for information regarding supported card sizes as well as file-system and MP3 formats. The card contains two directories: Pop and Voice. Within the Pop directory, 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. The SD card must not be formatted, the Voice directory and its contents must not be changed or deleted.

RECORDING TO THE SD CARD

Attention!

• Do not modify any files other than those included in the POP directory!

\Rightarrow	Insert the card into the computer and wait for it to be recognised.
\Rightarrow	Copy files to the Pop directory, or delete files from it.



Replacing Aroma and aquaCool media

|--|--|--|--|

REPLACING THE AQUACOOL CANISTER

If the aquaCool canister is empty, corresponding messages are displayed, and aquaCool switches off shortly afterwards.

Figure 28



Page 39	Open the bench part.
20	Unlock the retaining bracket.
\bigcirc	Keep the hose end including the lid in a clean plastic bag while replacing the canister.
(21)	Replace the canister.
\Rightarrow	Start aquaCool initialization (service menu).

REPLACING THE AROMA TIN

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



Attention!

Do not use any agents other than aquaCool

- and Aroma gel supplied by KBL!
- Risk of infections
- Function of nozzles impaired



Page 39	Open the bench part.
(22)	Unlock the retaining bracket.
(23)	Replace the tin.
	Reset the Aroma counter in the service
$ \Rightarrow$	display will disappear.

Replacing the aquaCool nozzles

After 1,000 hours of operation, the aquaCool nozzles must be replaced in order to ensure that the aquaCool system functions properly. The assembly instructions are included with your spare parts delivery.



System messages

	ERROR MESSAGES					
After	After the error has been eliminated, all error messages must be acknowledged by pressing START on the interior display.					
No.	Status message	Description	Remedy			
01	Excess temperature bimetal canopy	Bimetal switch triggers.	Check the air-intake/air-discharge system. Let the sunbed 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- discharge system. Let the sunbed 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.			
10	Bench / bench pane open, please close	Contact of the bench pane has triggered.	Close the bench / bench pane and check the contact.			
12	KBL7 Hardware error Input- Controller	Mainboard defective.	Contact your Customer Service.			
13	Maximum write cycle flash memory reached	Maximum write cycle flash memory rea- ched.	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 con- nect and restart.	Check connector parameter storage. If necessary re- place 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					
20	CAN-BUS: preSelection dis- play V1 is incompatible		Use CAN-BUS operaters V2.			
21	CAN-BUS: audio module full V1 is incompatible	CAN-BUS operators incompatible.				
22	CAN-BUS: RGB module V1 ist incompatible					
23	Parameter storage write er- ror	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: detec- tion failed!	Frequency detection failed.	Restart the controller. Contact your Customer Service after the third unsuccessful restart.			
26	Frequency detection: po- wer supply connection faulty (connector X6/E6)!	Frequency detection failed. No mains vol- tage.	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				
205	Connection audio module faulty	Communication between control and module / display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.		
206	Connection inside display faulty		Contact your Customer Service.		
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	Check / replace the patch cable. Acknowledge the		
212	Connection RGB- module faulty	interrupted.	contact your Customer Service.		
213	SD card missing	No SD card in the audio module.	Insert an original SD card. See chapter: Recording to an SD card/Removing th 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 ea- syCare terminal has been interrupted.	Check cable connections and power supply. Acknow- ledge the message by pressing START. If the fault per- sists, contact your Customer Service.		
216	Voltage varies, blease check	Power supply to the mainboard varies	Check power supply to the mainboard.		
217	No voice files on the SD card, pleas check.	No voice files on the SD card found.	Rebuild voice folder on the SD card. If necessary re- place original SD card.		
220	OW to many sensors				
221	OW sensor Typ B missing	General OneWire sensor error	Contact your Customer Service.		
222	OW sensor Typ S missing				
223	OW sensor read error				
226	Quicktest Sensortoleranz OK	Sensor Quicktest log entry - No display			
227	Quicktest Sensortolerance error	in the event log (service menu).			



Technical data

Ambient conditions			
Installation site	In dry rooms (booths) with sufficient airing and ventilation ● Maximum relative air humidity: ≤ 70 % ● Maximum room temperature: ≤ 30 °C ● Minimum height of the room: 2160 mm		
Weights and measures			
Dimensions in mm (Height x width x depth)	1480 x 2330 x 1610 (when closed) 1800 x 2330 x 1440 (when open)		
Bench pane max. load capacity	130 kg		
Weight	approx. 570 kg		
Electrical connection values			
Protective class	IP20		
Mains voltage	400V / ~3N / 50Hz		
Wire cross section	5 x 4 mm² Ölflex		
MP3-Player	 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	See unit data		
Air discharge			
Fan	Exhaust-air socket Ø 300 - Height to top 1800 mm (with and without hot air recirculation) - Minimum exhaust air flow rate: 2250 m ³ /h		
Exhaust-air hose	Ø 300		

Views







UNIT DATA megaSun Optima - UV type 3 and 0.3 W/m ² in compliance with EN 60335-2-27					
Optima & Optima Deluxe			Item no	Equivalency code range	
Tubes	Canopy: Bench:	22x ultimate 2100 R 180W 4x ultimate 1863 O 80W 16x ultimate 1919 R 120W	3230076118 3230074882 3230076110	160-R-(15-20) / (1,4-1,8) 80-O-(15-20) / (7,4-10,0) 120-R-(19-25) / (2,1-2,9)	
Collagen	70x facial collagen booster				
booster	20x leg collagen booster (optional)				
Nominal power	With air conditioning: 8300W / Without air conditioning: 6900W				
Fuses	Automatic fuse K-type (safety cut-out), 3-pole (3 x 16A) with residual current-operated circuit breaker (RCD)				

megaSun





Remarks



Remarks



Remarks



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