megaSun®

by KBL

pureENERGY 5.0

OPERATING INSTRUCTIONS

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Version: BA_pureEnergy50_T5213_GB_A
Date: 11/2014
Control / Software version: KBL-7 / 01.28
Item no.: 0100036622
Device name [tech.]: T5213

For instruction updates, please refer to http://www.kbl-support.de.

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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 box with the tower components 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.

DANGER

Overturning load!
Danger of being crushed by heavy parts of the equipment.
- **Wear safety shoes.**

Other modes of transport

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.

Wearing a hair net

Studio clients with long hair must wear hair nets during tanning sessions to ensure safety.

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.
- The tanning system operated in the circulating-air mode may not be connected to an exhaust air system.

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:

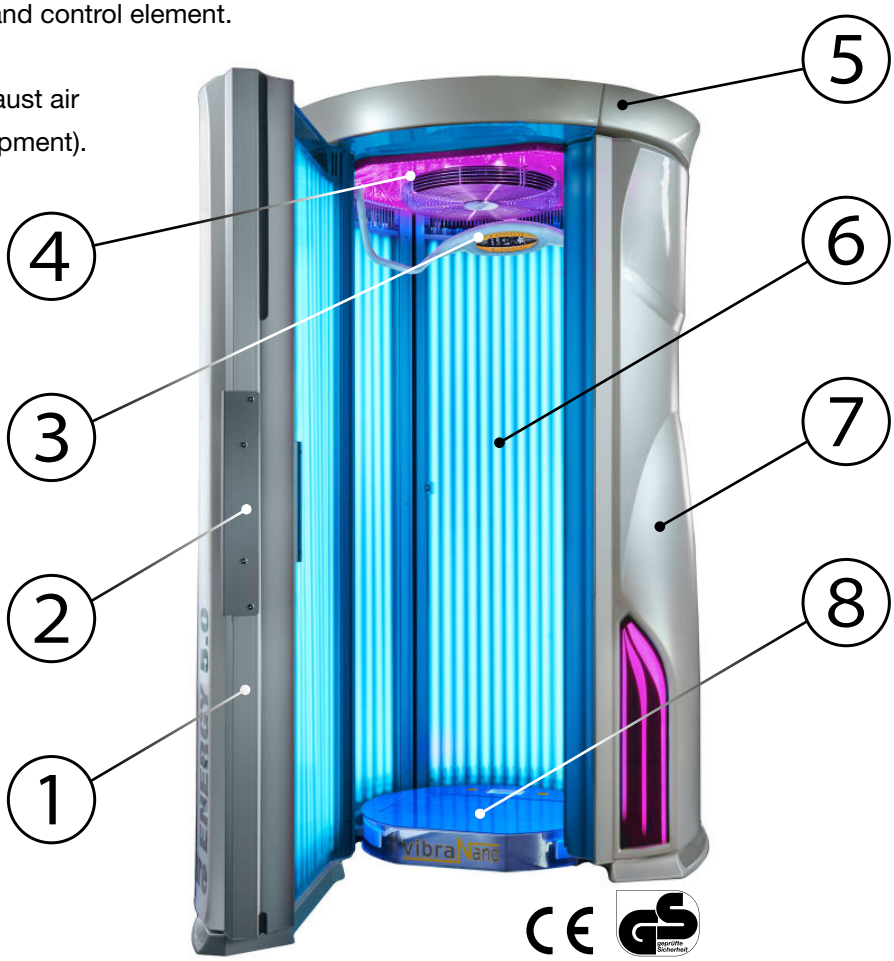
- EN 60335-2-27
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC

Components

The tanning unit basically consists of the following components:

- Two side parts, comprising 12 tubes each.
- Rear part including 14 tubes.
- Door including 14 tubes.
- Ceiling including fan and control element.
- Base plate.
- Casing of central exhaust air module (optional equipment).

①	Door
②	Door handle
③	Ceiling grab handle with integrated control element
④	Ceiling design element with integrated fan
⑤	Top crown
⑥	Rear wall
⑦	Lateral part
⑧	vibraNano (optional equipment)



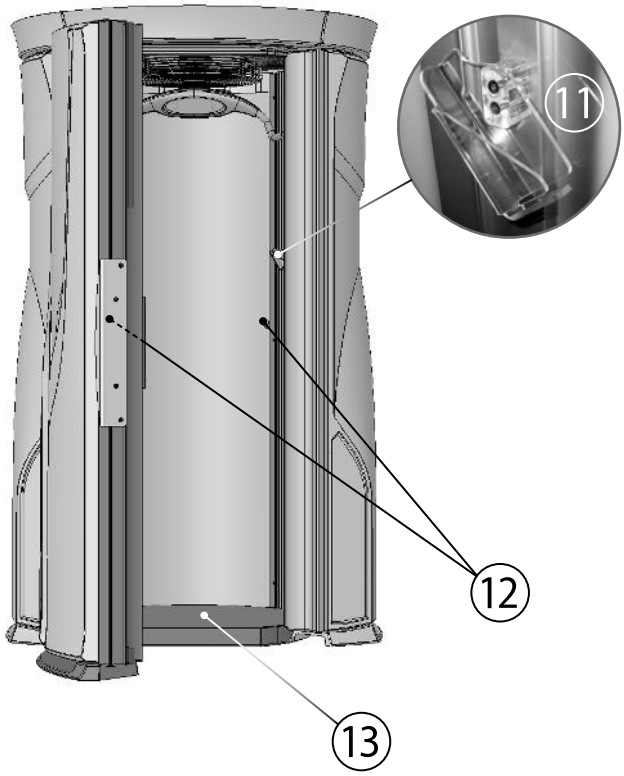
Functionality

The ”Tower pureEnergy 5.0“ tanning unit (simply called “Tower” in the following) is intended for use for the tanning of one single adult person at a time; this person must have a skin type that tolerates tanning. The client is standing upright while tanning. Thanks to its vertical construction form, the unit can also be operated under limited space conditions.

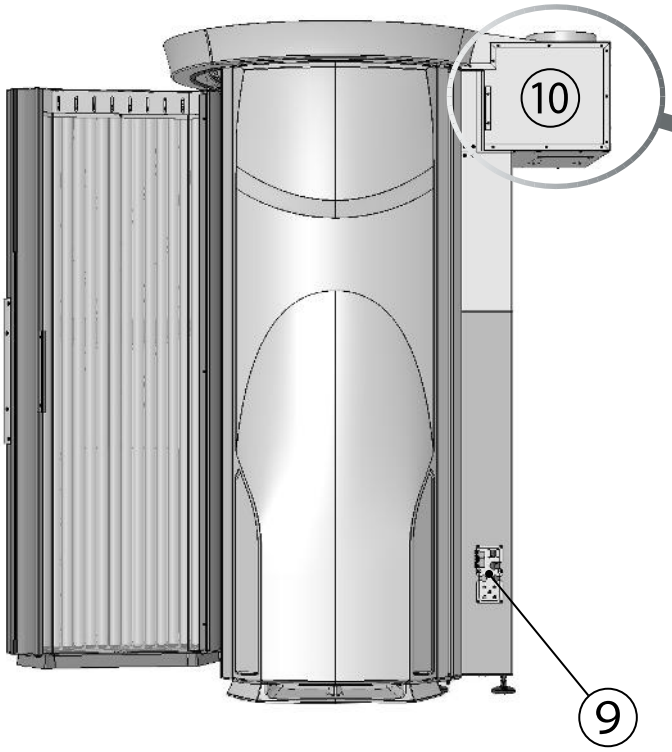
The Tower can be of the circulating-air type or the exhaust-air type. For the circulating-air type, the purpose of the ceiling fan ④ is to cool down both the tubes and the client’s body. In this operation mode, the appliance must not be connected to an exhaust air system. The operation of the tanning system in circulating-air mode is permitted only in rooms with adequate ventilation. Please take notice of the information on the minimum room height.

Equipped with the optionally available central exhaust-air module ⑩, the ceiling fan cools down the tubes. Apart from this, the two operating modes differ from each other with regard to fan control and ceiling crown.

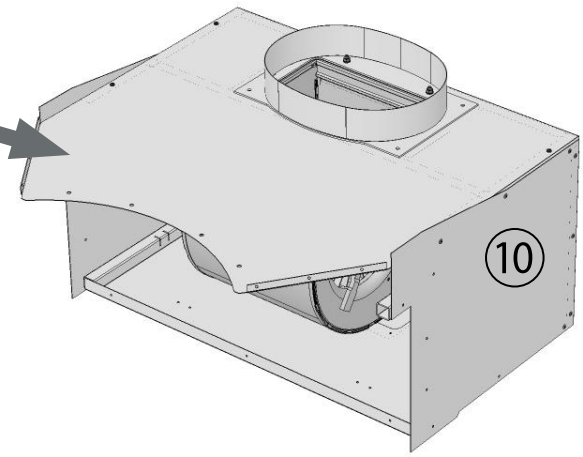
Front view, door opened



Side view (RHS), door opened



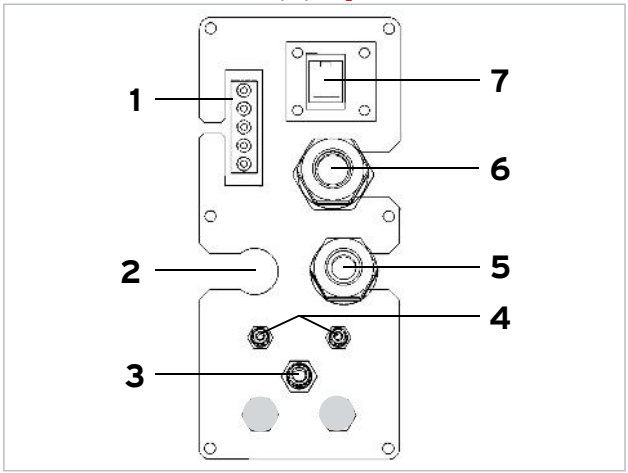
Central exhaust air module



⑨	Supply connections
⑩	Central exhaust air module
⑪	Mobile phone holder
⑫	aquaCool nozzles
⑬	Base plate

Connections

Overview - supply connections



1	Mains voltage aquaCool box
2	Audio connection / channel selection
3	aquaCool - air (blue)
4	aquaCool - liquid
5	Connection of external timer (coin-box system)
6	Power supply
7	Data cable Tower/aquaCool-Box

Connecting the mains voltage

DANGER!

Live components

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

- Switch off mains voltage.

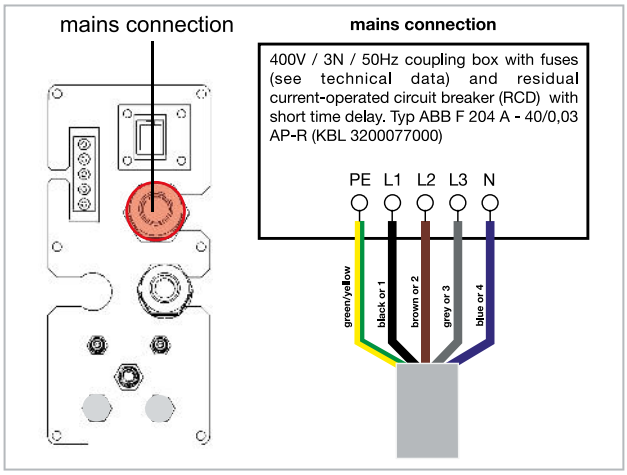
- Protect against re-connection.

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”.

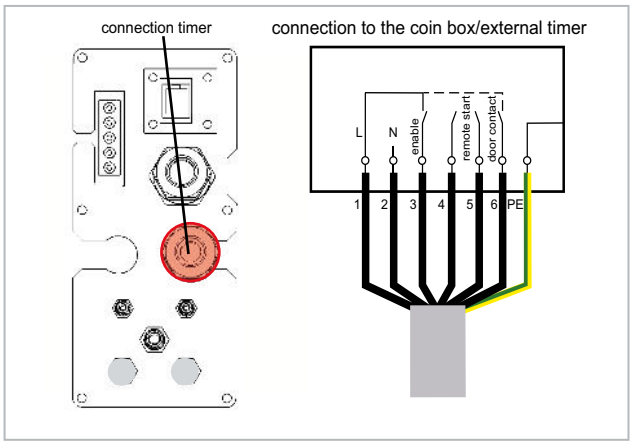
A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R)

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.



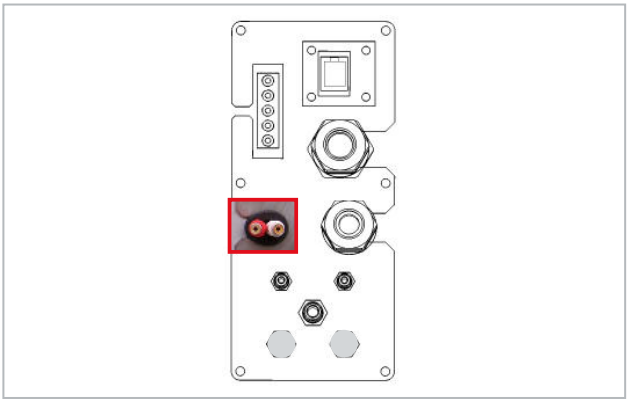
Connecting an external timer

Connect the external timer (e.g. coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring of the timer connection.



Connecting an external audio source

The cinch marked in the illustration is connected to the external audio source where the line-out of the sound player or the headphone/loudspeaker jack are available for connection.



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

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

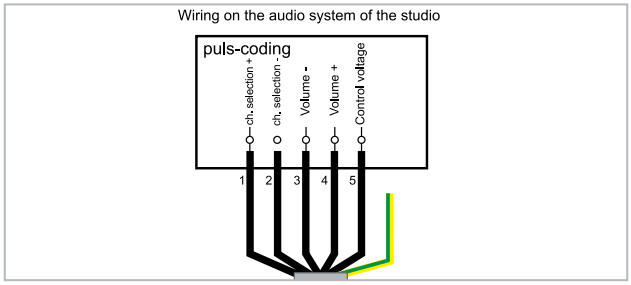
EXTERNES 100 V MUSIKSIGNAL
AM STUDIOKANAL (OPTION)

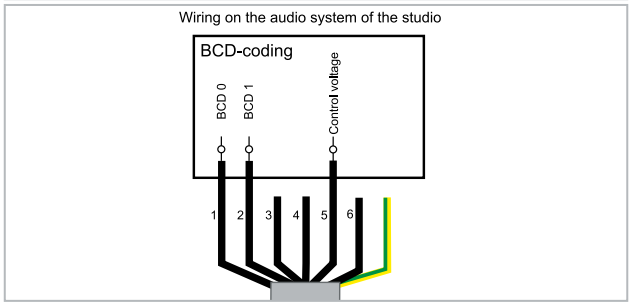
Zum Anschluss an ein 100 V Audiosystem wird zum übertragen des Audiosignales ein 100V-Überträger (KBL Nr.: 9100 0170 00) benötigt.

Der Anschluss hat durch geschultes Servicepersonal zu erfolgen!

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.

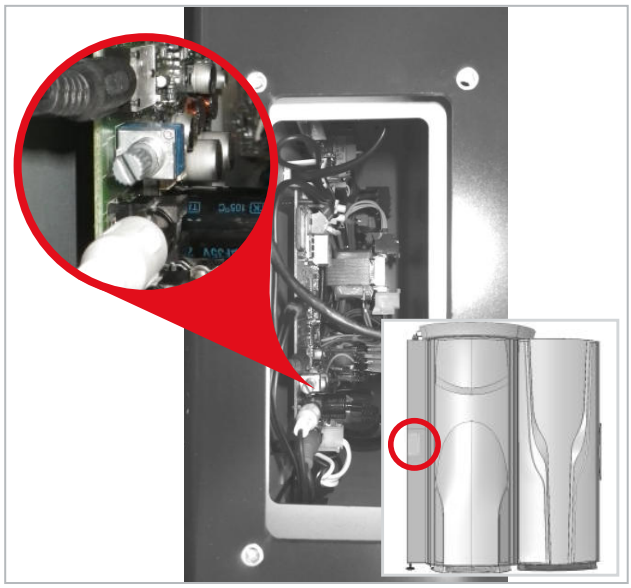




CHANNEL	BCD 0	BCD 1
1	0	0
2	1	0
3	0	1
4	1	1

Level adjustment studio music

The voice / audio system components are installed in the back part of the tower. The potentiometer which serves to adjust the external audio signal level is accessible through a maintenance hatch on the left hand side of the tower. 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.



Bluetooth connection

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

CONNECT EXTERNAL PLAYER

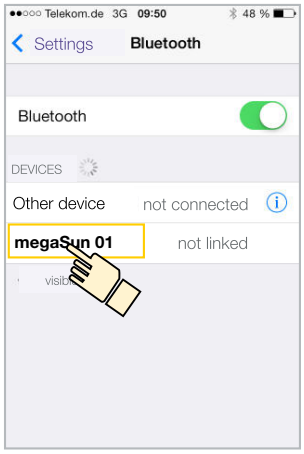
A Bluetooth connection can be established in standby and during tanning mode.

ⓘ	Make sure that you are within the reception area (about 2 meters). Make sure that your device 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 appliance.

- 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 devices choose “megaSun”. In the service menu, a trailing number (01, 02, 03, ...) can be added to 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 device is connected to the solarium.

Example - Samsung Galaxy

Example - Apple iPhone

- Set your device to a **medium volume level** and start the music.
- Adjust the volume level on your device.
- 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

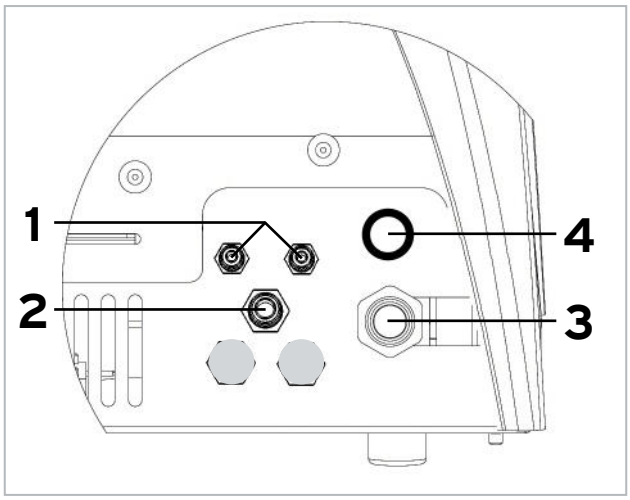
KBL AG attaches great importance to hardware compatibility. Due to the large number of manufacturers, KBL can not guarantee a 100 % compatibility. In rare cases, it may happen that a bluetooth connection can not be established.

CORRECTIVE ACTION

Each unit 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 device.

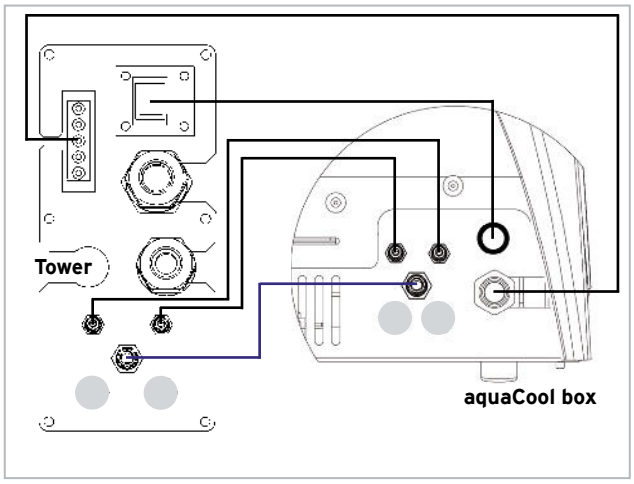
Start the bluetooth device detection again.

aquaCool-box connections



1	aquaCool - liquid
2	aquaCool - air (blue)
3	Mains voltage aquaCool box
4	Data cable Tower/aquaCool-Box

Connections aquaCool box / tower



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 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 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.
- 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.

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	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 tanning sessions per year	87	66	50	38	22	17

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

During the tanning session, the door must remain closed in order to ensure that the ventilation works properly.

- Close the door and place yourself in the middle of the tower booth in such a way that the distance between your body and the surrounding lamps is about equal at any point.
- Put on protective goggles.
- 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 device 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:

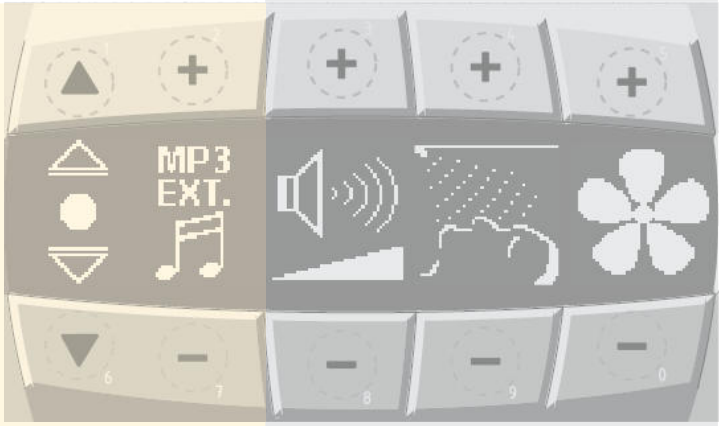
20 seconds after your last input, the display changes over to the indication of the tanning time.

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

During the tanning session, you need quick access to basic functions such as volume control, body fan and aquaCool.
You should also be in a position to change the subordinate functions.
The control panel caters for both requirements. You have

- 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



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

Variable section of the control panel

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 ▲ ▼, 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.

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

Selectable function symbols (for a fully equipped unit)

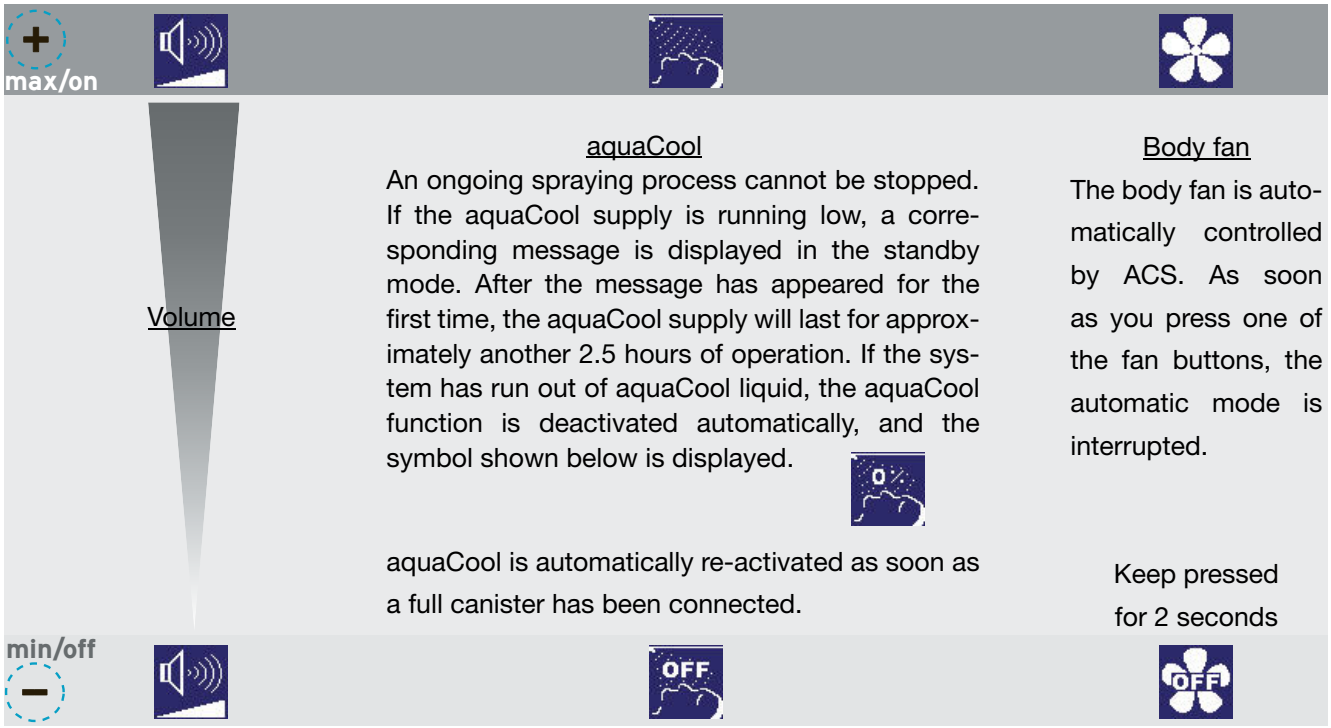
megaVoice

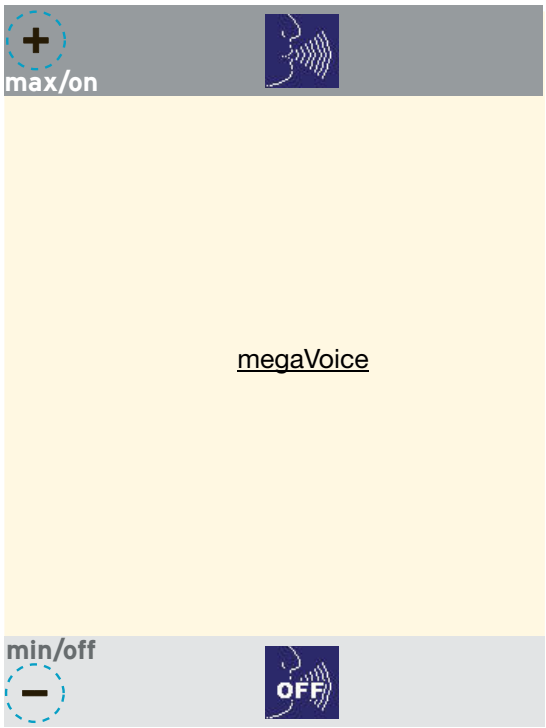
MP3-int.

Studio

MP3-ext.

Functions overview





aquaCool
manual control

Alternative to automatic operation aquaCool can also be started manually.

Service menu settings:

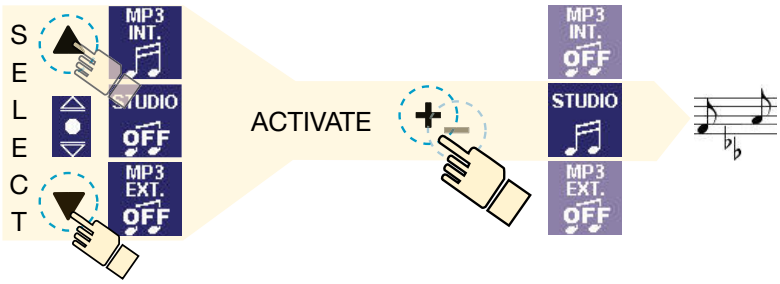
- With activated aquaCool the point *Aqua/ cycle time* must be set to “manual”.

By pressing the aquaCool plus button, a spray cycle can be triggered.

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 recognize the active audio source.

MODEL: ACTIVATING AUDIO FUNCTIONS



Variable section of the control panel (audio functions)

Channel +

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

In order to play tracks from your own Bluetooth music devices, select the audio source "MP3-external" on the solarium control panel and start playback on the external player. Use the corresponding operating elements of the external player in order to select the desired tracks.

Channel −

Tracks +

MP3 internal

This function is used to play the tracks of the internal MP3 player of the tanning unit.
If the MP3 internal function has been activated, press the plus and minus buttons to browse through the individual tracks.

Tracks −

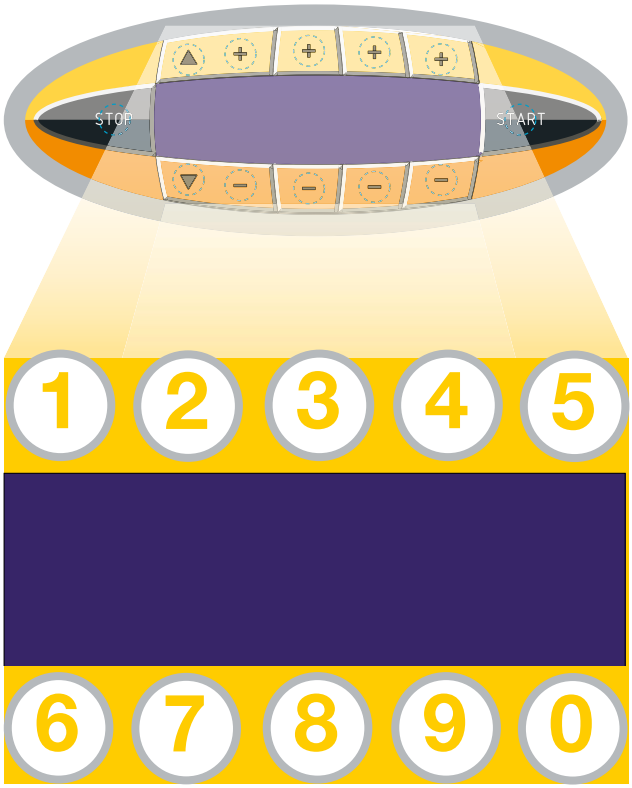
Standby mode / service mode

While the tanning unit is in standby mode, you can switch the decorative lighting of the device 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 device 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

→ 5 0 5

NOTE

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.

aquaCool spraying test

→ 4 9 4

Invoking the service menu

→ 1 6 1 0 0 0 0

PIN

NOTE

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

Service menu - Basics

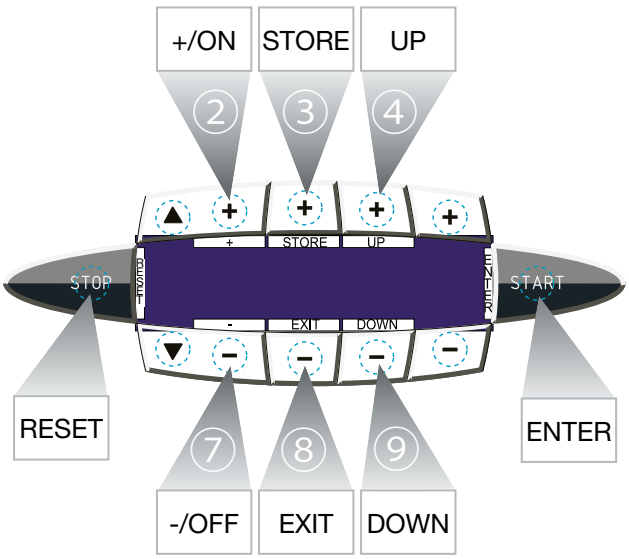
In standby mode, the service level is accessed by entering “161”, followed by PIN “0000”. There is one additional condition that must be fulfilled:

- 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):

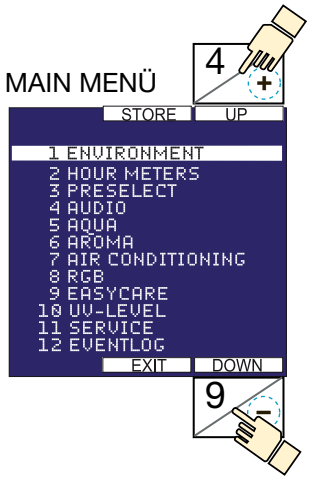
- Use buttons 4 (UP) and 9 (DOWN) to browse through the individual menu items and functions.
- Press the START/ENTER button to go to the corresponding submenu.
- Button 2 and 7 are used to switch functions on and off and to modify values.
- Press 3 (STORE) to save all modifications made in all menu items.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



SERVICE MENU - BASIC OPERATION

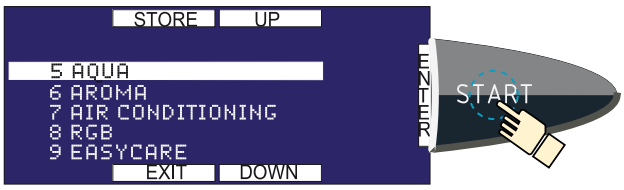
The service menu is divided into the main menu and subordinate groups of functions.

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

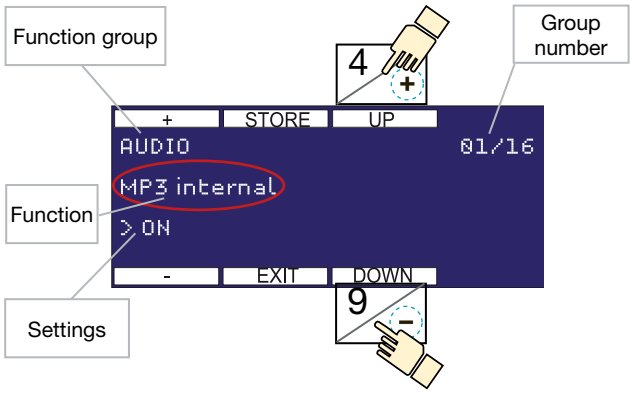


- Select the desired function group from the main menu by pressing the 4 (UP) or the 9 (DOWN) button. The currently selected group is highlighted.

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

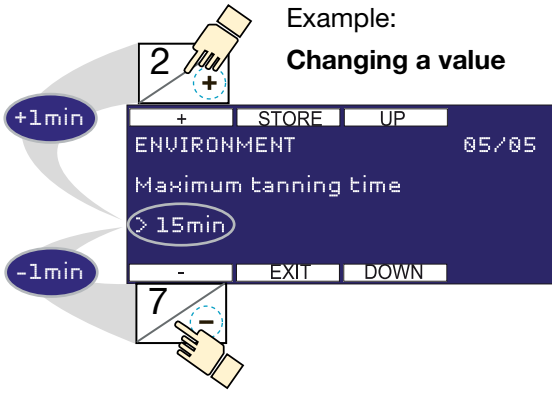


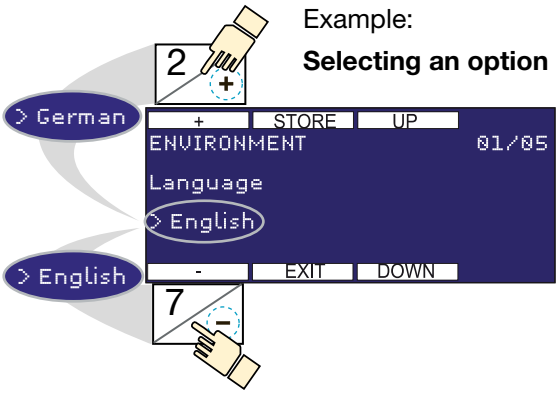
- The currently active function (circle) is displayed in the centre line on the left-hand side. You can invoke further functions of this group by pressing 4 (UP) or 9 (DOWN).

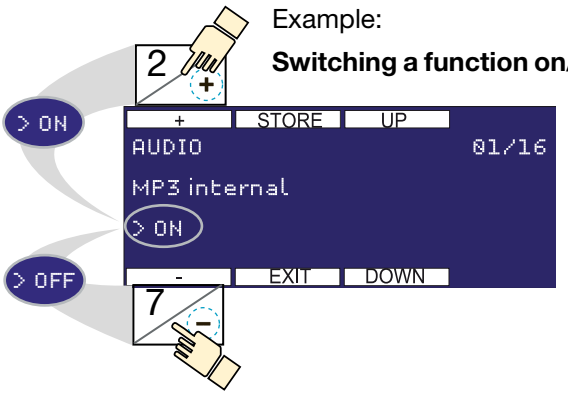


CHANGE SETTINGS

- 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 (-).

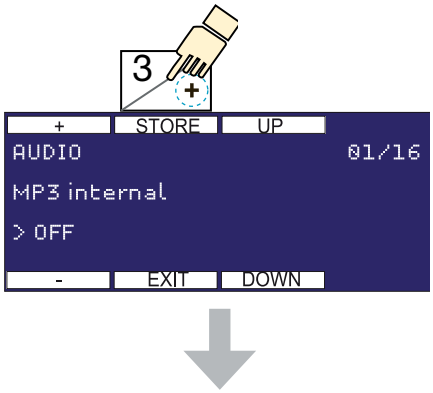




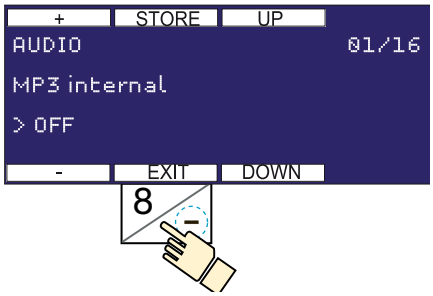


STORE & EXIT

- 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: 01.28**

ENVIRONMENT
- ① Language
- ② Contrast
- ③ TIME AND DATE
- ④ TIMER DECORATIVE LIGHTING
- ⑤ Maximum tanning time

HOUR METERS
- ⑥ Operating hours overall
- ⑦ Operating hours UV tubes
- ⑧ Operating hours collagen tubes
- ⑨ Number of sunbath

PRESELECT
- ⑩ UV-Typ
- ⑪ Audio
- ⑫ Voice (megaVoice)
- ⑬ Aircon (aircondition)
- ⑭ Aroma
- ⑮ Aqua (aquaCool)

AUDIO
- ⑯ MP3 internal
- ⑰ megaVoice
- ⑱ megaVoice language
- ⑲ Studio (Line-in)
- ⑳ usb MP3
- ㉑ MP3 external (Line in)
- ㉒ Studio channel selection
- ㉓ Number of studio channels
- ㉔ Musik nonstop
- ㉕ Nonstop music source
- ㉖ Default volume tanning
- ㉗ Default volume standby
- ㉘ Maximum adjustable volume
- ㉙ megaVoice volume adaption
- ㉚ Dynamic volume adaption
- ㉛ Treble MP3 - USB
- ㉜ High bass MP3 - USB
- ㉝ Low bass MP3 - USB
- ㉞ Volume adaption Studio Line-In
- ㉟ Treble Studio Line-In
- ㊱ High bass Studio Line-In
- ㊲ Low bass Studio Line-In

AQUA
- ㊳ aquaCool
- ㊴ aquaCool spray time
- ㊵ Cycle time
- ㊶ aquaCool start test cycle
- ㊷ aquaCool endurance test
- ㊸ aquaCool start initialization

AROMA
- ㊹ Aroma
- ㊺ Aroma status reset
- ㊻ Cycle time
- ㊼ Aroma cabin automatic
- ㊽ Aroma cycles per hour
- ㊾ TIMER AROMA
- ㊿ Aroma start test cycle

AIR CONDITIONING
- 51 Air condition
- 52 Start level body fan

RGB
- 53 RGB mode

54 **EASYCARE**

55 **UV-LEVEL**

SERVICE
- 56 Load factory defaults
- 57 Personal PIN
- BLUETOOTH
  - 58 Name
  - 59 Powerlevel
- 60 FIRMWARE-TYP
- 61 FIRMWARE-VERSIONEN
- 62 SOFTWARE UPLOAD
- 63 RGB-Setup
- SERVICE MODE
  - 64 Service mode without tanning
  - 65 Service mode with tanning
- 66 SOLARIUM IDENTIFICATION
- 67 SOLARIUM X-CODE
- 68 Reboot

69 **EVENT LOG**

PIN protection

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

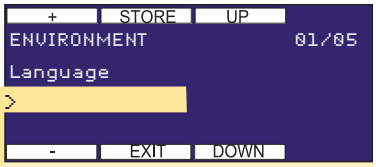
Personal ”PIN” protected menu items may be identified by the personal “PIN” logo as given in the service menu.

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

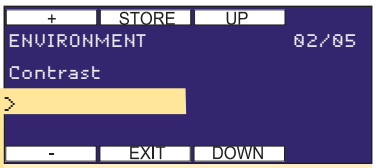


> German
> English

Sets the language of the menu.

Factory setting: German

②

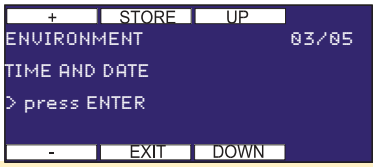


> 00000.. . 00030

Sets the contrast of the display.

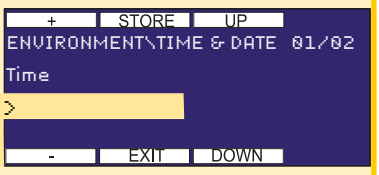
Factory setting: 00020

③

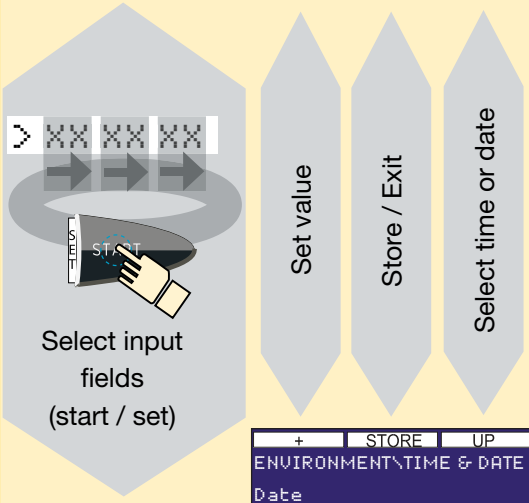


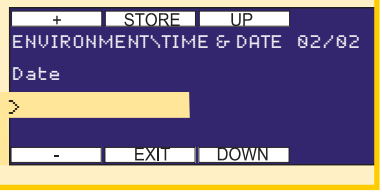
Entry of date and time. Invoke the submenu by pressing START (ENTER).

SUBMENU
TIME & DATE



> 00:00 - 23:59





> 19.08.08 Tu

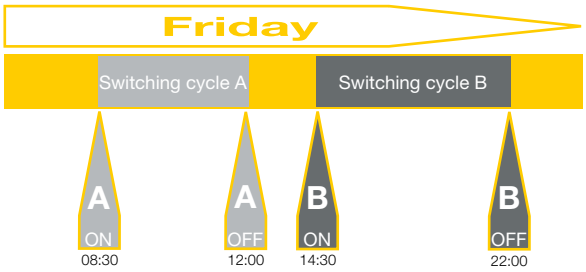
The menu item „Timer decorative lighting“ offers you two switching cycles (A and B) for each day of the week.

NOTE - SWITCHING CYCLES

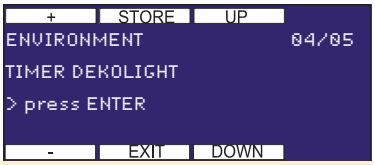
Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.

Week	Switching cycle A	Switching cycle B
Monday - Sunday	A-ON	B-ON
	A-OFF	B-OFF

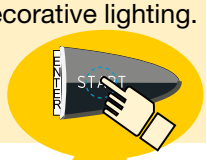
Day	Switching cycles A	Switching cycles B
Monday	A-ON	B-ON
	A-OFF	B-OFF
Tuesday	A-ON	B-ON
	A-OFF	B-OFF
Wednesday	A-ON	B-ON
	A-OFF	B-OFF
Thursday	A-ON	B-ON
	A-OFF	B-OFF
Friday	A-ON	B-ON
	A-OFF	B-OFF
Saturday	A-ON	B-ON
	A-OFF	B-OFF
Sunday	A-ON	B-ON
	A-OFF	B-OFF



4

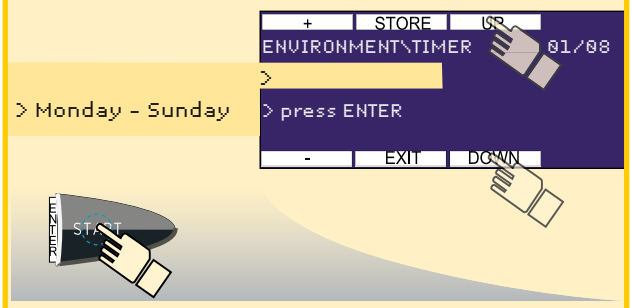


Entering switching times for the decorative lighting. The submenu is invoked by pressing START (ENTER).

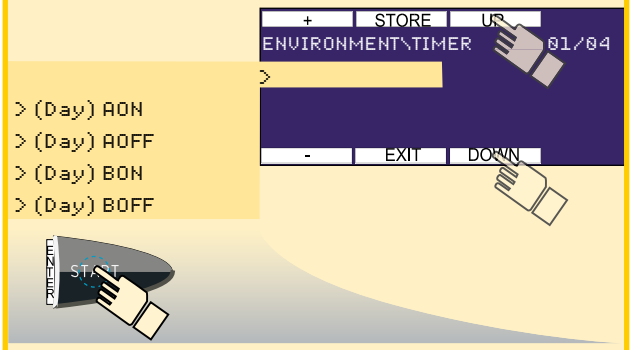


SUBMENU
TIMER DECORATIVE LIGHTING

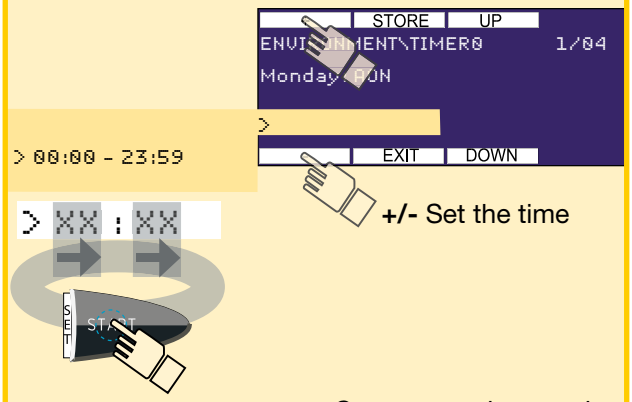
SELECT WEEK OR DAY OF THE WEEK



ENTER SWITCHING TIME



SET SWITCHING CYCLES



+/- Set the time

Select input fields

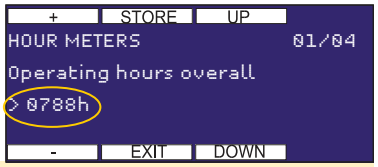
- Save settings by pressing STORE!

5 PERSONAL PIN

Sets the maximum tanning time for all timers. In the easyCare operating mode, the setting has been fixed to 30 minutes.

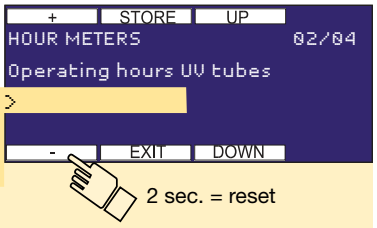
Factory setting: 44 minutes

6



Displays the total operating hours.

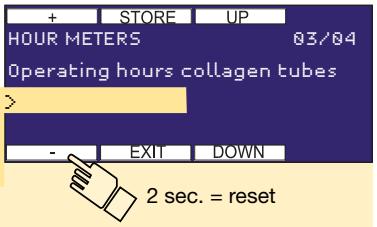
7



Displays the total operating hours of the UV tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

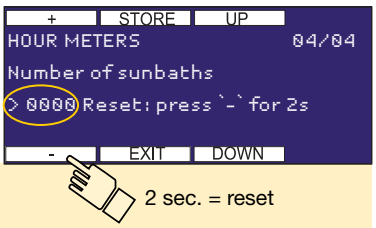
- Save settings by pressing STORE!

8



Not available in this system.

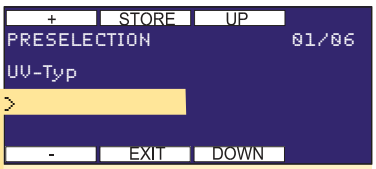
9



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

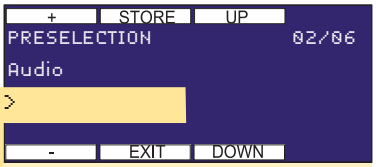
Under the menu item “PRESELECTION” you can make the initial settings for the device. The functions must be available and activated in this service menu ⑯/⑰/⑲/㊳/㊹/㊿.

10



Not available in this system.

11

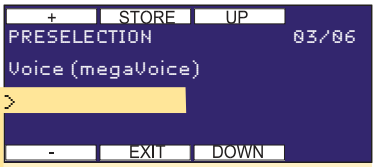


> Studio Line-In
> MP3-internal
> MP3-external

Determines the start setting of the audio source.

Factory setting: MP3-internal

12

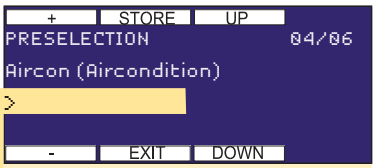


> on
> off

Specifies the start setting of the voice-guidance system.

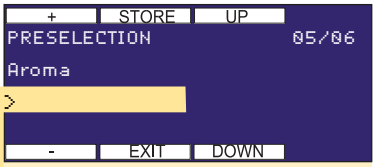
Factory setting: on

13



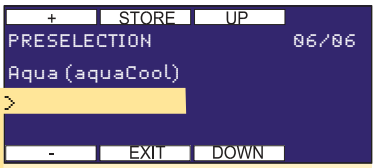
Not available in this system.

14



Not available in this system.

15

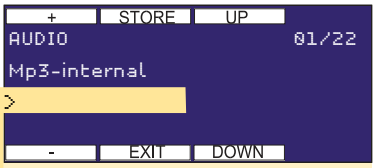


> on
> off

Specifies the start setting of aquaCool.

Factory setting: on

16

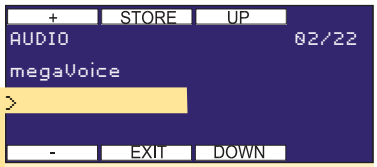


> on
> off

Activates and deactivates the internal MP3 player.

Factory setting: off

17



> on
> off

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

Factory setting: on

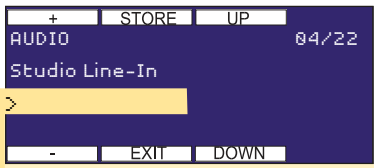
18

> 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

19

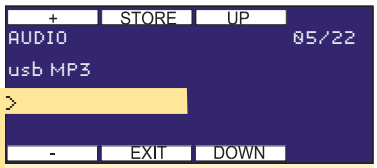


> on
> off

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

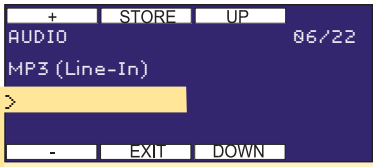
Factory setting: on

20



Not available in this system.

21

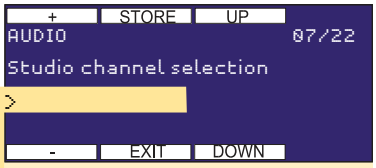


> on
> off

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

22



> bcd
> puls code
> off

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

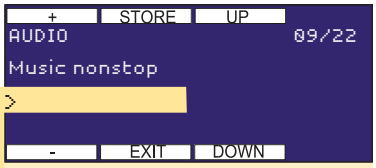
23

> 2
> 4

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

Factory setting: 4

24

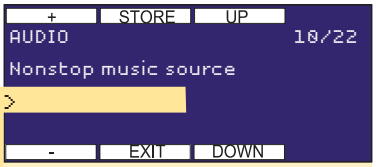


> on
> off

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

Factory setting: off

25



> MP3-internal
> Studio Line-In

Allows for choosing the permanent audio source for the “Music nonstop” function“.

Factory setting: MP3-internal

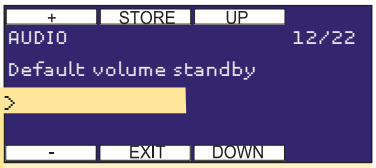
26

> 0 .. . 9

Sets the volume for the tanning mode.

Factory setting: 6

27

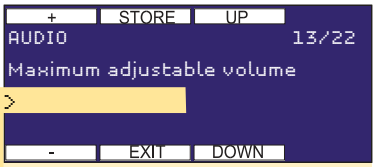


> 0 .. . 9

Sets the volume for the standby mode.

Factory setting: 3

28



> 5 .. . 9

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

Factory setting: 9

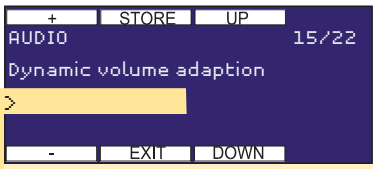
29

> -09 .. . +09 dB

Here you can adapt the volume of megaVoice.

Factory setting: -07 dB

30

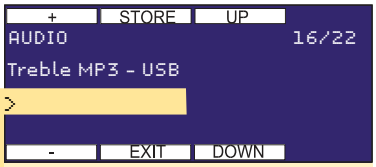


> on
> off

Dynamic volume adaption on-/off.

Factory setting: on

31

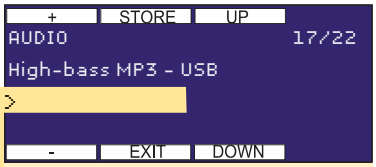


> -14 .. . +14 dB

Sets the treble for MP3 - USB operation.

Factory setting: +14 dB

32

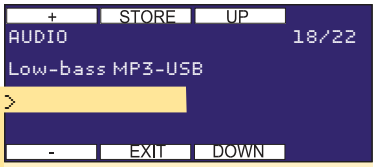


> -14 .. . +14 dB

Sets the high-bass for MP3 - USB operation.

Factory setting: +08 dB

33

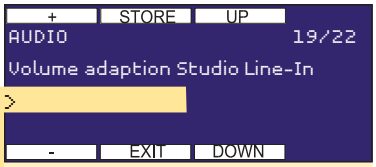


> -14 .. . +14 dB

Sets the low-bass for MP3 - USB operation.

Factory setting: +08 dB

34

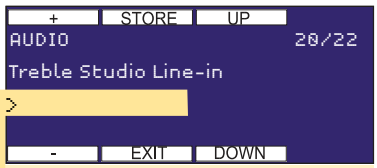


> -29 .. . +29 dB

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

Factory setting: +00 dB

35

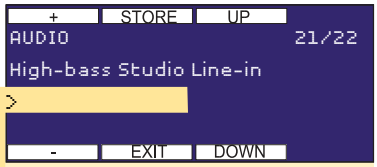


> -14 .. . +14 dB

Sets the treble for studio music operation.

Factory setting: +14 dB

36



> -14 .. . +14 dB

Sets the high-bass for studio music operation.

Factory setting: +08 dB

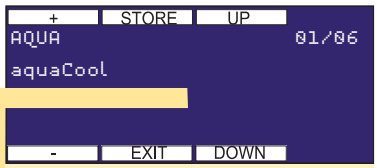
37

> -14 .. . +14 dB

Sets the low-bass for studio music operation.

Factory setting: +14 dB

38



> on
> off

Activates and deactivates the aquaCool function.

Factory setting: off

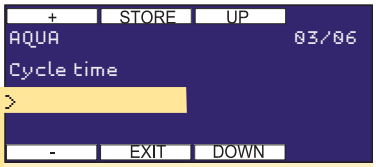
39

> 2 .. . 6 (sec)

Determines the duration of the aquaCool spraying time.

Factory setting: 6

40



> manuel
> 1 .. . 5 (min)

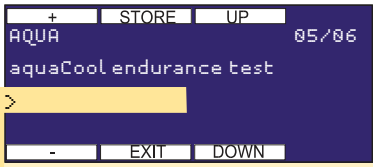
Defines the aquaCool and aroma cycle time (spraying time + spraying interval). If „manual“ is selected, by pressing the aquaCool- or Aroma plus button a spray cycle can be triggered.

Factory setting: manuel

41

Starts the aquaCool test (1 cycle).

42



> on
> off

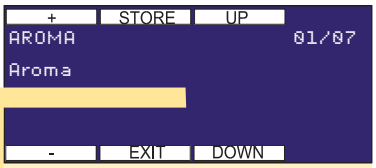
Starts the aquaCool endurance test. After having selected and stored the “on” setting, you must leave the service menu and start a tanning session. Attention! aquaCool will continue to spray permanently during a whole tanning session.

Factory setting: off

43

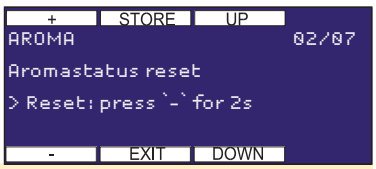
Starts the aquaCool initialization process. A spraying cycle of 90 seconds is started to bleed the system before commissioning, after a repair operation or after a canister replacement.

44



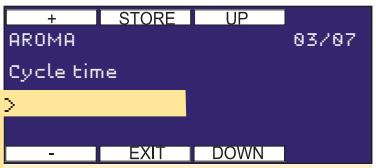
Not available in this system.

45



Not available in this system.

46

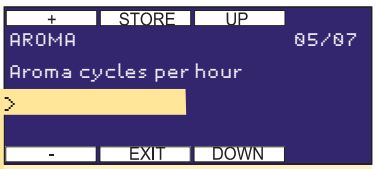


Not available in this system.

47

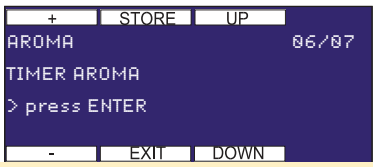
Not available in this system.

48



Not available in this system.

49

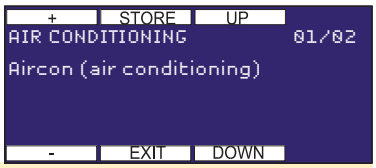


Not available in this system.

50

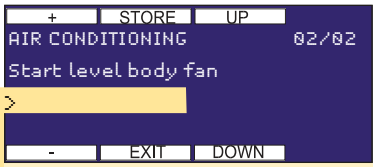
Not available in this system.

51



Not available in this system.

52

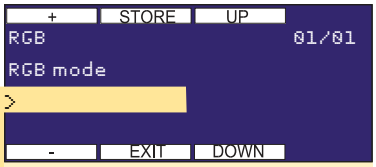


> 1 .. . 9

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

Factory setting: 2

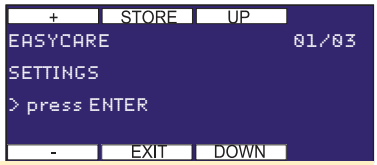
53



Not available in this system.

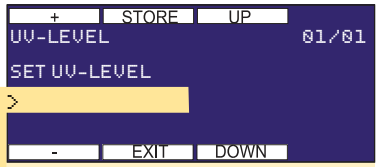
Note:
For devices with LED technology, the desired RGB color mode is adjusted by the colorMotion controller.

54



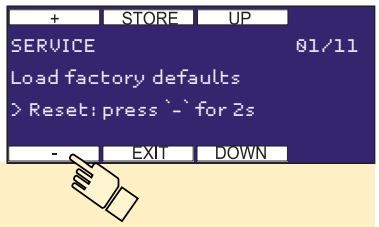
Not available in this system.

55 PERSONAL PIN



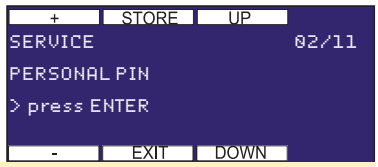
These settings must only be made by trained service personnel!

56 PERSONAL PIN



Loads the factory (default) settings.

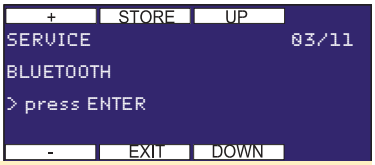
57 PERSONAL PIN



Submenu call
with START/ENTER.

SUBMENU

PERSONAL PIN activate / deactivate
Enter your personal PIN.



Submenu BLUETOOTH.
Invoked by pressing
START (ENTER).

SUBMENU
BLUETOOTH

Name ⑤⑧
Powerlevel ⑤⑨

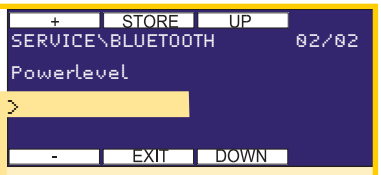
58

> 01 - 99

To fit your Studio environment (multiple units) different numbers can be added to the bluetooth device name (megaSun xx) of each solarium.

Factory setting: 01

59



> 1 . . . 7

Sets the transmission power for bluetooth.
Factory setting: 2

60

Submenu call with START/ENTER. Displays the current firmware typ / variant.

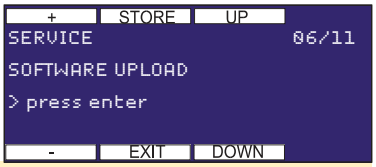
61

Submenu call with START/ENTER. Displays the current firmware version of the system components.

Do not operate the system with different firmware versions!

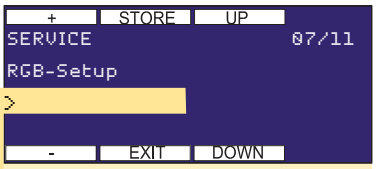
- **All system components must be equipped with an identical firmware version.**

62

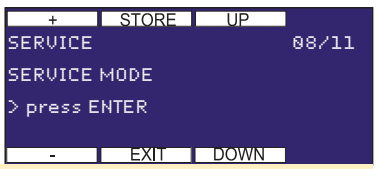


Submenu call with START/ENTER. Displays the first and the last Software-Upload.

63



Not available in this system.

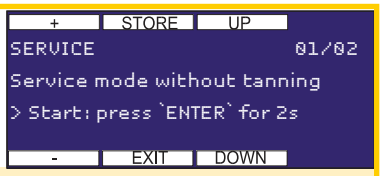


Submenu SERVICE MODE.
Invoked by pressing
START (ENTER).

SUBMENU
SERVICE MODE

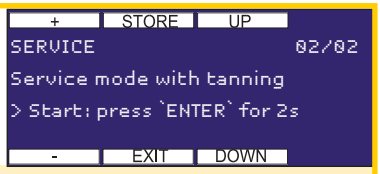
Service mode without tanning ⑥④
Service mode with tanning ⑥⑤

64



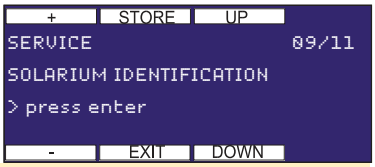
Troubleshooting mode.
The service mode is switched on for 30 minutes. The mains voltage is connected. Error notifications are ignored, but tanning cannot be started.

65



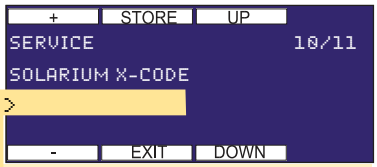
Troubleshooting mode.
The service mode is switched on for 10 minutes. The mains voltage is connected. Error notifications are ignored, tanning can be started. After this period, there is a 3 minute restart lockout.

66



Show the characteristics of the device:
- Configuration code
- Variant code
- Serial number

67 PERSONAL PIN

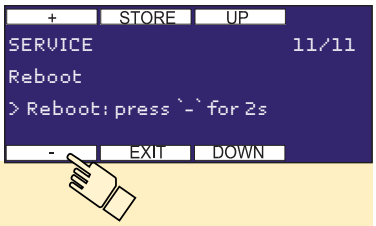


> PIN:

Branches to further configuration options.

These settings must only be made by trained service personnel!

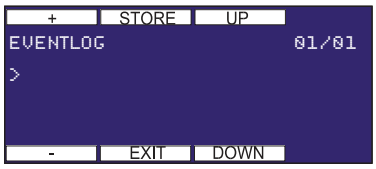
68



Performs a restart of the electronics.

Attention
- **All unsaved changes will be discarded!**

69



Lists the latest 99 events (error codes & info-messages). Detailed information is available by pressing the Start button.
Example:

no.	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				

Set decorative lighting

For remote control of the fourSeason color mode, you may use our colorMotion controller. Available only for devices with LED technology.

To control the fourSeason color mode of the device use the stylish colorMotion controller with its elegant colorWheel and its full touch panel. Change brightness, turn on and off the lighting, select static colors or select one of the automatic color change programs. This wireless control technology allowes remote control from various directions with just a finger touch.

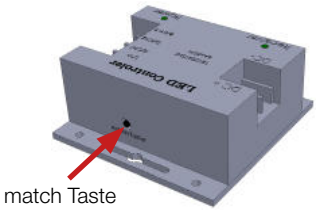
Low power consumption and awakening

After 20 sec. without touching the controller will automatically enter the low power sleep mode. Touch any key to wake up the controller to normal use.

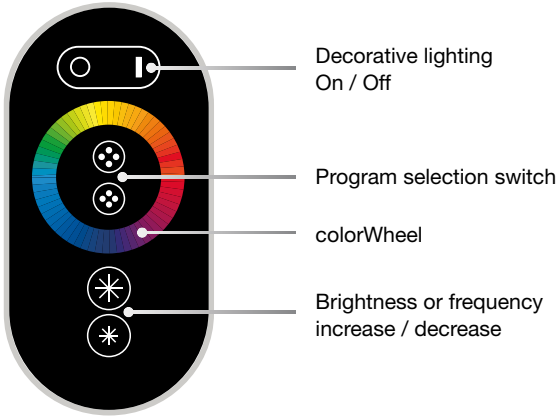
Match code function

In order to control several devices with one RF-controller press down the match code button on the LED controller and the “I” button at the RF-controller at the same time, wait for the LED lamp flashing several times, then move away from the two buttons. To cancel match, press down the match code button on the LED controller and the “O” button at the RF-controller at the same time, wait for the LED lamp flashing several times, then move away from the two buttons.

The LED controller is located in the rear wall of the tower.



colorMotion controller



colorMotion controller - control elements

On / Off
Decorative lighting.
The selected setting automatically will be saved when the system is switched off.

Program selection switch

Program	Mode	Note
1	RED	Intensity adjustable
2	GREEN	
3	BLUE	
4	YELLOW	
5	PURPLE	
6	CYAN	
7	WHITE	
8	3 color - jump	Frequency adjustable (Repetition rate)
9	7 color - jump	
10	3 color - gradient	
11	3 color - smooth	
12	7 color - gradient	
13	7 color - smooth	
13	3 color - flicker	
15	7 color - flicker	
16	3 color - flash	
17	7 color - flash	
18	Auto play	

colorWheel
By touching the colorWheel the selected color switches on and additionally the program selection will be reset. At the next program selection, the program 1 (RED) will start.

Increases / decreases the intensity of the static colors (Program 1-7).
Increases / decreases the repetition rate (Program 8-18).

Maintenance and cleaning

Regular maintenance is required for the safe operation of the towers and has to be documented. Cleaning is to be performed when necessary.

DANGER

Live parts

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

- **Disconnect from mains and secure against reconnection!**

- **USE ONLY ORIGINAL SPARE PARTS.**
- Replace illuminants and filters 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

For cleaning the acrylic panes, use the special cleansing agent and disinfectant “megaClean“ supplied by KBL and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

To clean the varnished and plastic surfaces, use a damp soapy cloth.

Do not clean the big plastic parts with a dry cloth. This might scratch the surfaces!

To clean the PMMA plastic surfaces of the door and the mirror plate of the floor, proceed as follows: Use a damp chamois and spray megaClean onto it sparingly. Then wipe the surfaces clean. NEVER CLEAN WITH A DRY CLOTH!

Prevent the corners and edges from getting wet.

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	Replacement
Tubes - Electronic Power	After approx. 200 operating hours	Typical value after about 800 operating hours. For further information see data sheet.
Acrylic panes	When necessary	When necessary
aquaCool nozzles	When necessary	After approx. 1000 operating hours

Tools and aids

4	Hexagon socket screwdriver (SW 4 / 60 mm) Art. No.: 3410055263
PH2	Standard Phillips screwdriver (PH2)
	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.

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

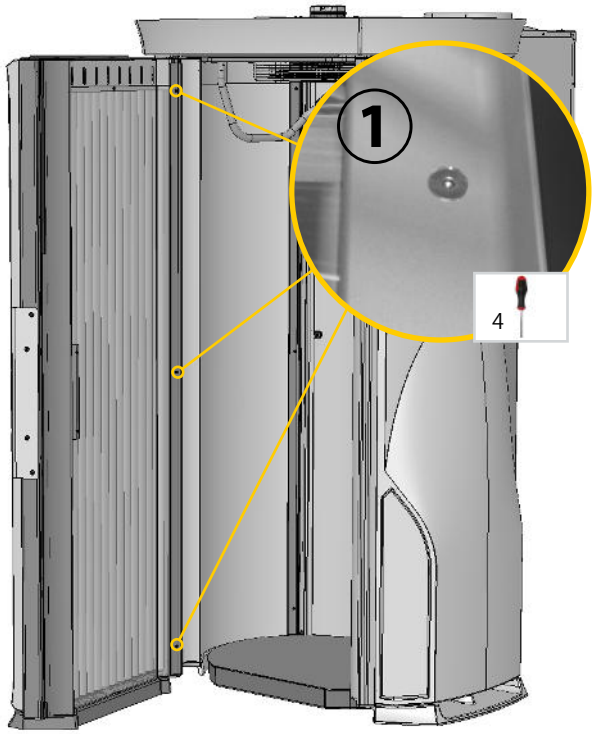
Removing and cleaning the acrylic panes

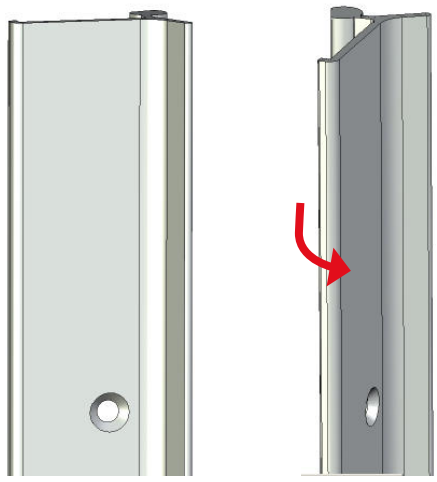
The panes are cleaned whenever necessary. When cleaning the inside, it is recommended to clean also the tubes. The instructions for cleaning and care must be observed. The outer surface can be cleaned without any preparatory works.

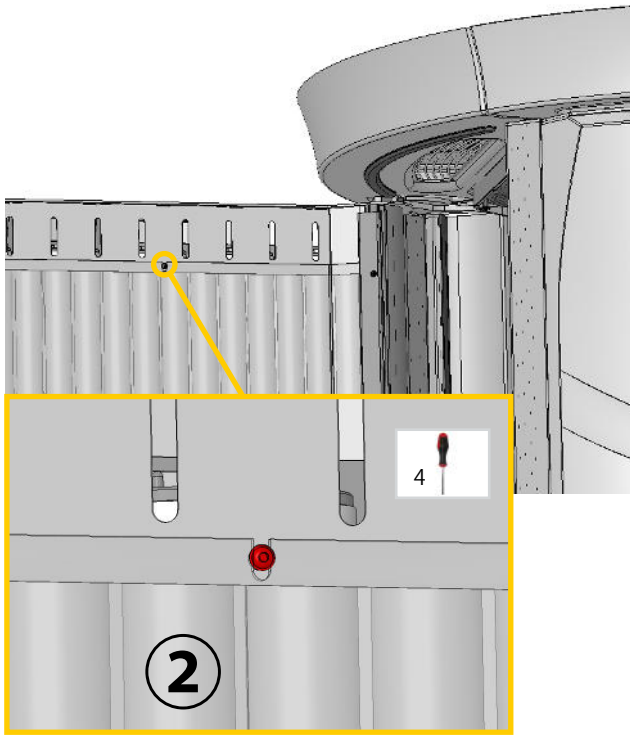
REMOVING ACRYLIC PANES

	4			

The illustration shows the disassembly at the door. Disassembling of sides and rear wall is carried out in same manner.



1	Remove the three hexagonal screws of the side covering strip.
⇒	Fold back the side covering strip. 



i	If your Tower is equipped with a central exhaust-air module, also undo the screw ② that is located centrally at the top of the door pane.

⇒	Lift the panes out of the guide rails and keep them in a safe place.

INSTALLING ACRYLIC PANES

After the pane and the tubes (if necessary) have been cleaned, reinsert the pane into the guide rails and close the side covering strip.

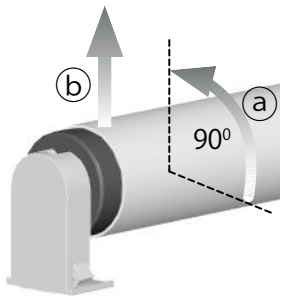
Cleaning and replacing the tubes

By regularly cleaning the tubes you can help preserve their tanning power.

	• 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 TUBES

	4			



Side 37	Removing acrylic panes.
⇒	Remove the tubes by turning each tube a quarter to the right or to the left and then pulling it out. Remove tubes from lower sockets first.

Replacing the unit lighting

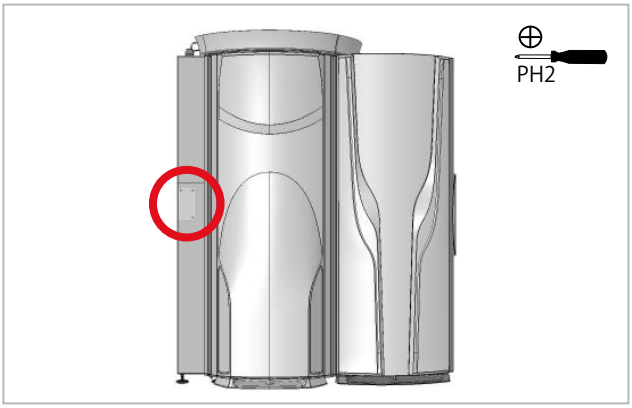
The device is lighted by high-performance-LED‘s (Four Seasons). If the LEDs are defective, they may only be replaced by qualified specialist. In this case, contact the service department!

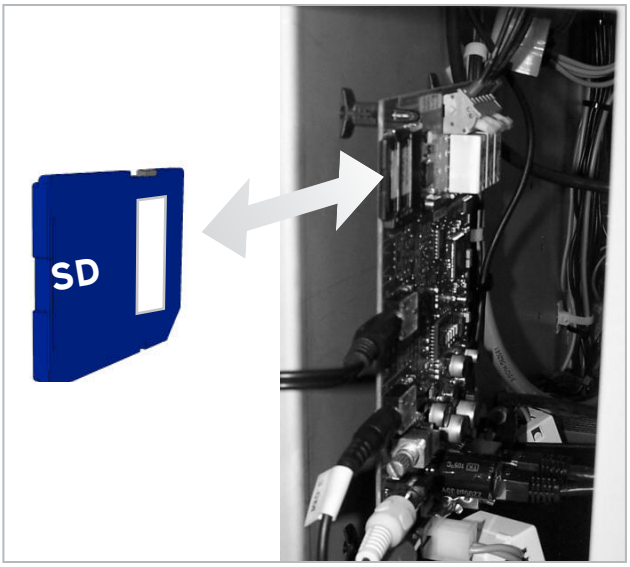
Recording to an SD card

	PH2			

REMOVING THE SD CARD

The SD card slot which contains the storage medium with the MP3 data from the internal MP3 player is accessible through a maintenance hatch on the left hand side of the tower.





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 please. 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 absolutely not modify the data of the VOICE directory!

⇒	Insert the card into the computer and wait for it to be recognised.
⇒	Copy or delete MP3 files.

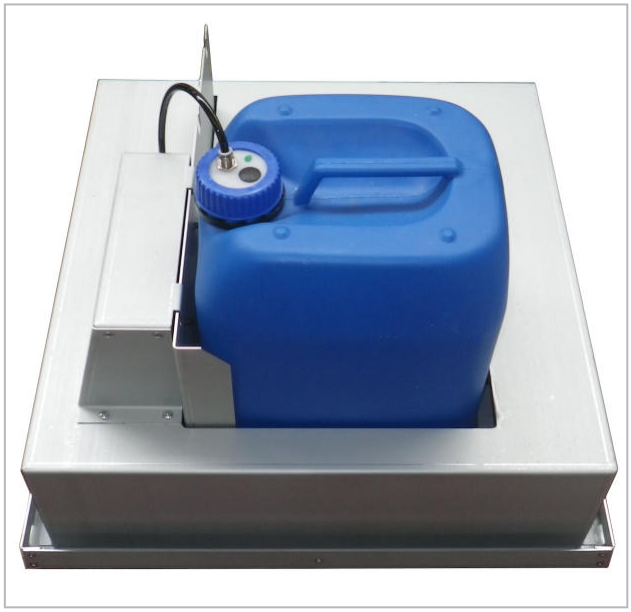
Replacing the aquaCool canister

Attention!
Do not use any agents other than aquaCool and Aroma gel supplied by KBL!
- Risk of infections
- Function of nozzles impaired

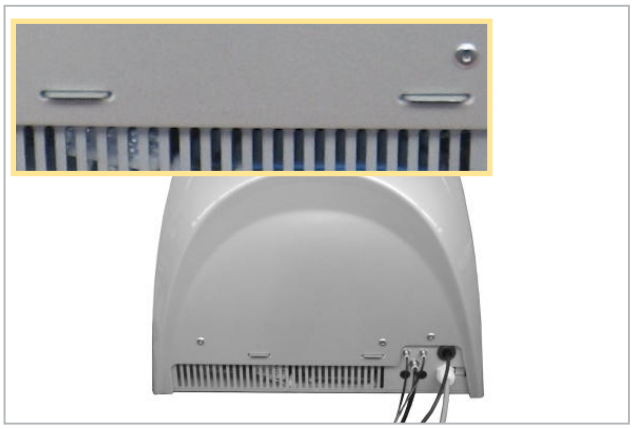
- Unscrew the cover of the aqua cool box and remove it.

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

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



- Unscrew the lid.
- Keep the hose end including the lid in a clean plastic bag while replacing the canister.
- Replace the canister.
- Start aquaCool initialization (service menu).



- Attach the cover.

- Screw the cover.

Replacing the aquaCool nozzles

After 1000 hours of operation, the aquaCool nozzles have to be replaced in order to ensure that aquaCool stays fully operative and efficient. The installation instructions will be enclosed in your spare parts consignment.

System messages

ERROR MESSAGES			
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	Bimetal switch triggers.	Check the air-intake/air-discharge system. Let the 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!	Bimetal switch in the fan triggers.	Make sure the fan runs freely. Check the air-intake/air-discharge system. Let the device cool down.
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 operaters V2.
20	CAN-BUS: preSelection display V1 is incompatible		
21	CAN-BUS: audio module full V1 is incompatible		
22	CAN-BUS: RGB module V1 ist 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.
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 / display 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.
210	Low battery charge, please renew	Button cell (CR-2032) of the control board discharged.	Replace the button cell (CR-2032).
212	Connection RGB module faulty	Communication between control and bus module has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, 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 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.
216	Error voltage supply, please 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 replace original SD card.
220	OW to many sensors	General OneWire sensor error.	Contact your Customer Service.
221	OW sensor Typ B missing		
222	OW sensor Typ S missing		
223	OW sensor read error		
224	Check tubes and temperature sensor in the door	Temperature difference to high - between the one wire sensors.	Check tubes and thermal sensors in the door. Contact your Customer Service.
228	Check tubes and temperature sensor in the door	Minimum temperature is not reached or is fallen below in operation mode.	Check tubes and thermal sensors in the door. Contact your Customer Service.
229	Pleas close the door, check exhaust air	Temperature rise of 1,5 degrees in 18 seconds.	Close door. Check exhaust air.

Technical Data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation • Max. Relative air humidity: ≤ 70 % • Max. Room temperature: ≤ 30 °C • Minimum height of the room: 2406 mm (Applies to circulating-air mode and operation mode with optional central exhaust system.)
Electrical connection values	
Protective class	IP 20
Mains voltage	400 V / ~ 3 N / 50 Hz
Wire cross section	5 x 2,5 mm² Ölflex
Fuses	Automatic fuse K-type (safety cut-out), 3-pole, 3x 20 A with residual current-operated circuit breaker (RCD)
Nominal power	8810 W
Central exhaust air discharge (optional feature)	
Fan	Minimum capacity (exhaust air) 2000 m³/h / Exhaust-air socket - Diameter 300 mm
Exhaust-air hose	Diameter 300 mm
Unit data megaSun pureEnergy 5.0 - UV type 3 and 0.3 W/m² in compliance with EN 60335-2-27	
Tubes	52x ultimate 2008 R 180W - Item no: 3230076116 Equivalence key range: 180-R-(17-23) / (1,2-1,6)
Dimensions in mm (height x width x depth)	2326 ±10 x 1395 ±5 x 1233 ±5 (closed) - (With central exhaust-air module -> depth plus 332) 2326 ±10 x 1395 ±5 x 1843 ±5 (opened)
Weight	352 kg without central exhaust-air module - 392 kg with central exhaust-air module
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

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 sunbed are only valid as long as the system is operated with the original tube set!

Ratio of the NMSC-effective UV irradiance ≤ 320nm und > 320nm
(NMSC = Non Melanom Skin Cancer)

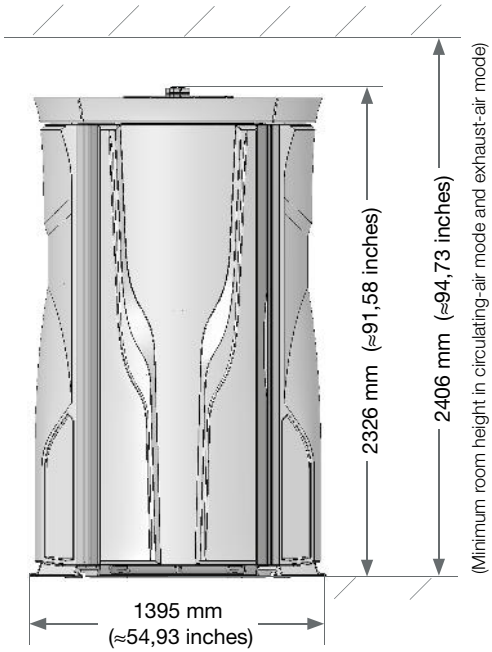
Erythema-effective UV irradiance in the range of 250-400nm in mW/m²

Reflector types
O - For lamps without reflector
B - For lamps with reflector angles wider than >230°
N - For lamps with reflector angles narrower than <200°
R - For lamps with usual reflector angles of ≥200° ∧ ≤230°

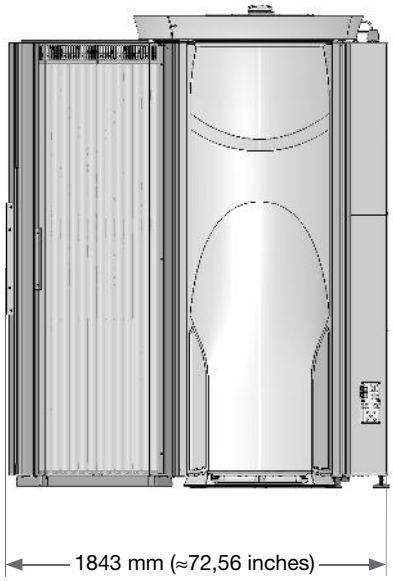
Indication of Watts (electrical power)

Views

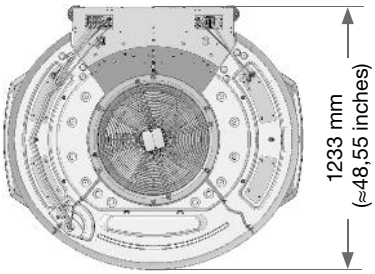
Front view



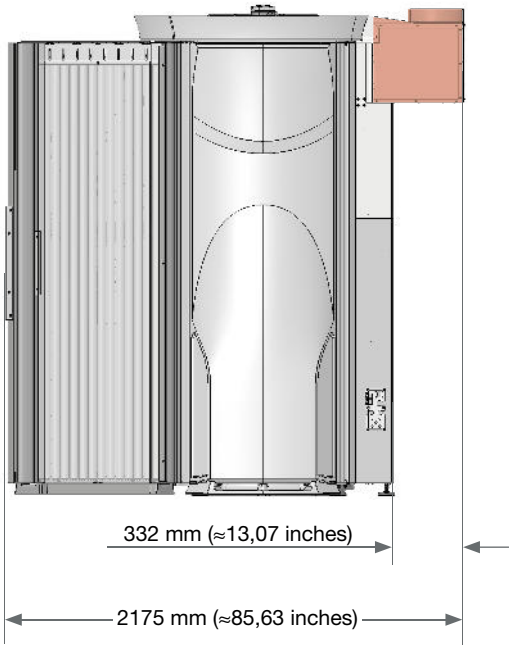
RHS view, door opened



Top view



RHS view with central exhaust air module



Remarks

Remarks

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