



**Operating and Service
Manual
KBL 7900**

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Only original spare parts – especially tubes and burners – have to be used, otherwise operating authorization and terms of guarantee will become invalid.


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1. General Safety - Exposure Schedule - Service

Please observe the following safety instructions:

Tanning times	Please keep to the recommended tanning times see Section 9
Timer	This device must be operated with an external timer that is in compliance with UL 917. The maximum tanning time must not be exceeded.
Disconnecting	Before opening the apparatus, switch off the fuses to disconnect the system from the voltage supply!
	
Facial tanner	Do not operate the sun bed if a filter pane is defective. See Section 5.3 Attention! High light intensity, do not look into the radiators!
Technical parameters	The data indicated in the tanning schemes are based on the assumption that both tubes and burners are replaced at regular intervals. (See Section 5.4) When replacing tubes, remember to reset the CPI-control system and the counter of the tube service hours.
Mechanics	The canopy drive has to be serviced regularly with each tube replacement. This also includes the replacement of the drive rope after 3,000 hours of operation. (See Section 5.8)
Cleaning	Do not use any cleaning agents other than the ones approved by KBL Solarien AG. (See Section 5.1)

	<p>WARNING - ULTRAVIOLET RADIATION - FOLLOW INSTRUCTIONS - FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN SEVERE BURNS OR OTHER EYE INJURY - IF DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT A PHYSICIAN.</p> <p>ATTENTION - RAYONNEMENTS ULTRAVIOLETS - VEUILLEZ SUIVRE LES INTRUCTIONS - SANS DISPOSITIF DE PROTECTION DES YEUX, CE PRODUIT PEUT CAUSER DES BRÛLURES OU LÉSIONS OCULAIRES GRAVES - SI VOUS SENTEZ UN MALAISE, EN DISCONTINUER L'USAGE ET CONSULTER UN MÉDECIN.</p>
<p>DANGER - Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reaction. Repeated exposure may cause premature aging of the skin and cancer. Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunbed if you are using medications or have a history of skin problems or believe yourself especially sensitive to sun light. If you do not tan in the sun you are unlikely to tan from use of this product.</p> <p>DANGER - Eviter surexposition. Comme avec la lumière naturelle du soleil, la surexposition peut causer lésions aux yeux et à la peau et réactions allergiques. Une exposition répétée peut causer un vieillissement prématuré de la peau et cancer. Médicaments et cosmétique peuvent augmenter votre sensibilité aux rayons ultraviolets. Consulter un médecin avant d'utiliser la lampe à ultraviolets si vous utilisez médicaments, si vous avez problèmes de peau ou si vous croyez vous êtes particulièrement sensibles au rayons du soleil. Si vous ne bronzez pas avec le soleil c'est improbable que vous pouvez bronzer en utilisant ce produit.</p>	
Part No. 3010370800	

Possible exposure schedules

<p>This device may be used only by persons over 18 years and is intended to be used by only one person at a time. Lie down on the bench in a straight position and with physical contact to the bench.</p> <p>CAUTION: EXPOSURE POSITIONS OTHER THAN SPECIFIED MAY RESULT IN OVEREXPOSURE AND ARE NOT RECOMMENDED.</p> <p>Tanning normally begins after one to two exposures and maximizes after one to four (1-4) weeks of exposure following the recommended schedule for you skin type.</p> <p>Wear protective eyewear.</p> <p>Eyewear: AHK GmbH, No. 600545</p>	<p>DO NOT REMOVE THIS LABEL</p> <p>Read the instruction booklet before using tanning system</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="5" style="text-align: center;">RECOMMENDED EXPOSURE SCHEDULE</th> </tr> <tr> <td colspan="5" style="padding: 5px;"> First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 10 minutes. </td> </tr> <tr> <th style="font-size: small;">Skin type</th> <th style="font-size: small;">Week 1 1st - 3rd Session</th> <th style="font-size: small;">Week 2 4th - 6th Session</th> <th style="font-size: small;">Week 3 7th - 9th Session</th> <th style="font-size: small;">Subsequent Weekly Session</th> </tr> <tr> <td style="text-align: center;">II</td> <td style="text-align: center;">2 min</td> <td style="text-align: center;">4 min</td> <td style="text-align: center;">6 min</td> <td style="text-align: center;">8 min</td> </tr> <tr> <td style="text-align: center;">III</td> <td style="text-align: center;">2 min</td> <td style="text-align: center;">4 min</td> <td style="text-align: center;">7 min</td> <td style="text-align: center;">9 min</td> </tr> <tr> <td style="text-align: center;">IV</td> <td style="text-align: center;">2 min</td> <td style="text-align: center;">5 min</td> <td style="text-align: center;">7 min</td> <td style="text-align: center;">10 min</td> </tr> <tr> <td style="text-align: center;">V</td> <td style="text-align: center;">2 min</td> <td style="text-align: center;">5 min</td> <td style="text-align: center;">7 min</td> <td style="text-align: center;">10 min</td> </tr> </table>	RECOMMENDED EXPOSURE SCHEDULE					First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 10 minutes.					Skin type	Week 1 1st - 3rd Session	Week 2 4th - 6th Session	Week 3 7th - 9th Session	Subsequent Weekly Session	II	2 min	4 min	6 min	8 min	III	2 min	4 min	7 min	9 min	IV	2 min	5 min	7 min	10 min	V	2 min	5 min	7 min	10 min	<p>This product is in conformity with performance standards for sunlamp products under No. 21 CFR 1040.20. This appliance is intended to be used with the following lamps: Canopy: megaLine 1865 R 160W plus Bench: megaLine 1865 R 160W plus Facial units: megaLine HP 800 Shoulder tanner: megaLine 0525 R 30W</p> <p>For replacement lamps, eyewear or parts contact: Orthotech Sports Medical Equipment, Inc. 1211 Weaver Road Herrin, IL 62948 USA</p> <p style="text-align: right;">Part No. 3010370836</p>
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CAUTION: THE USE OF ANY OTHER POSITION MAY RESULT IN OVEREXPOSURE. Tanning can begin on a regular basis. An appearance of tanning normally appears after a few exposures and maximizes after four (4) weeks of exposure.

WARNING: As the device is intended to be used by only one person at a time, only one (1) pair of protective eyewear is provided with each KBL 7900.

Use protective eyewear whenever equipment is energized. Read the instruction booklet before using.

Follow the exposure schedule in accordance with your skin type. Failure to do so may result in overexposure. However, regardless of how dark an individual may tan on this system, it will not provide adequate protections against overexposure to natural sunlight or UVB tanning systems.

SKIN TYPE II - This is the individual that usually burns easily and severely, tans minimally or lightly and peels

SKIN TYPE III - Often referred to as „AVERAGE“ complexion. Burns moderately and tans about average

SKIN TYPE IV - This individual burns minimally, tans easily and above average with each exposure

SKIN TYPE V - This individual rarely burns, tans easily and substantially

Exposure schedule - Inductive Device

Skin type	Week 1 1st-3rd Session	Week 2 4th-6th Session	Week 3 7th-9th Session	Subsequent Weekly Session
II	2 min	4 min	6 min	8 min
III	2 min	4 min	7 min	9 min
IV	2 min	5 min	7 min	10 min
V	2 min	5 min	7 min	10 min

Exposure schedule - CPI Device

Skin type	Week 1 1st-3rd Session	Week 2 4th-6th Session	Week 3 7th-9th Session	Subsequent Weekly Session
II	2 min	4 min	6 min	8 min
III	2 min	4 min	7 min	9 min
IV	2 min	5 min	7 min	10 min
V	2 min	5 min	8 min	10 min

**REPAIRS - SERVICE - REPLACEMENT - PARTS AND LAMPS -
EYE PROTECTION**

If you are in need of any of the above mentioned products or services, you should contact:

Orthotech Sports Medical Equipment, Inc.
1211 Weaver Road
Herrin, IL 62948
USA

NOTE: All repairs and replacement components including, but not limited to, protective eyewear, lamps, timers and acrylic must be in compliance with CFR21 1040.20.

2. Service Plan

Service intervals For a safe operation of the sun beds, regular service works are essential and have to be documented. Cleaning works have to be done when necessary and do not have to be documented.

Service hours	What has to be done?	see
Every day	Check the filling level of the condensate tank and empty it if necessary.	
100	Change or clean filter mats	5.7
500 - 600	Change burners	
	For inductive apparatuses: <ul style="list-style-type: none"> • Change tubes • Change starters • Reset counter of service hours 	5.4
	For CPI-apparatuses (with burners) in Power-mode: <ul style="list-style-type: none"> • Change tubes • Reset counters (8) • Reset counter of service hours 	
	Check and grease ropes of the canopy drive	5.8
	Check all inner tubes and – if necessary – change them	
	Climatic apparatus: <ul style="list-style-type: none"> • Clean heat exchanger • Check the functioning of the condensate pump 	5.11
800	For CPI-apparatuses (with burners) in Eco-mode or for CPI-apparatuses (without burners) in Power-mode: <ul style="list-style-type: none"> • Change tubes • Reset counters (8) • Reset counter of service hours 	
1000	For CPI-apparatuses (without burners) in Eco-mode or with KBL CPI-tubes in Power-mode: <ul style="list-style-type: none"> • Change tubes • Reset counters (8) • Reset counter of service hours 	8
1200	For CPI-apparatuses with KBL CPI-tubes in Eco-mode: <ul style="list-style-type: none"> • Change tubes • Reset counters (8) • Reset counter of service hours 	
3000	Replace all the ropes	5.8


3. Equipment

Feature	S = standard O = optional	
pureAir	S	Fresh ionized air
ACS	S	Control of switch-on/switch-off behaviour
megaVoice	S	Acoustic user guidance
CPI	S	Electronic series equipment
activeFlex	S	Shoulder tanner
activeColor	O	Colour stimulation in red, green or blue
aquaCool	O	Misty water for refreshment
Aroma and cabinBreeze	O	Fragrances in the sun bed and in the cabin
AirCon	O	Air-conditioning
Music, MP3-player	O	with a 256MB-memory for music
Music, external signal	O	
Waste air tube	O	Ø 11.81", 118.11"
Central exhaust air element	O	
Warm air recirculation	O	
legTanner	O	

4. Operation during the tanning session

General information When switching the apparatus on, the following information is displayed for 2 seconds before the running text appears:

Firmware version of the display



Version of the control software



Sun bed type



Tube type



Running text

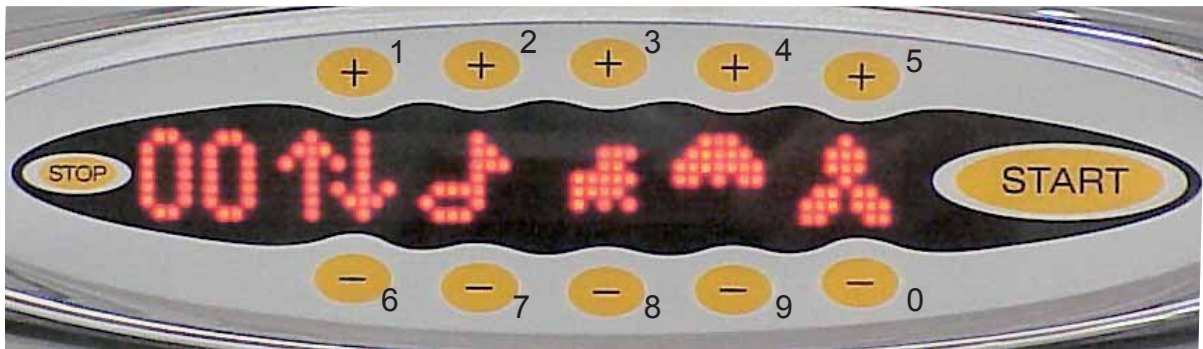
The start of the tanning program depends on the studio control system. If a simple coin-operated system has been installed, the tanning program is started by inserting coins or tokens. When the warm-up time has elapsed the tanning lamps are turned on automatically.

If the touch key "Start" is pressed during this warm-up time, the lamps turn on immediately.

The facial tanners are always switched on only after a certain delay.

Some of the basic features are set in service level I, such as colour-stimulation, aroma therapy, time control etc. Studio staff will set these options according to the customers' wishes.

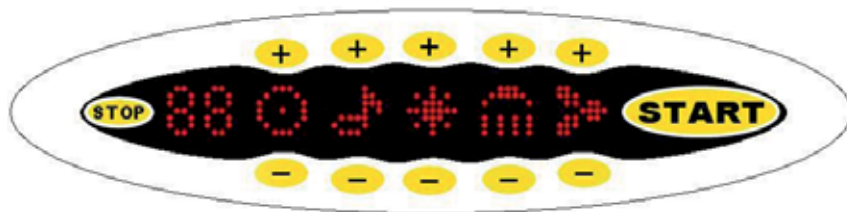
4.1 Operating panel



Illustr. 4-1

Operating panel w/o aquaCool

The operating panel with aquaCool shows between the keys 3 ...8 a moving symbol (animation). If aquaCool is not present, the symbol for the air conditioning will be displayed instead of the aquaColl symbol.



Main display

The running text is displayed as long as the sunbed is in the „waiting position“. When the coin-controlled signal appears, the functions are displayed and the sunbed can be operated by touching the corresponding keys. Any input will be confirmed by a beep tone.



A function is switched on by pressing the plus sensor, which is also used to increase the output stepwise. To set the maximum value (e.g. fan speed) the sensor field has to be pressed again and again until the maximum value has been reached.



A function is switched off by pressing the minus sensor, which is also used to decrease the output step by step. To set the minimum value (e.g. volume) the sensor field has to be pressed again and again until the desired value has been reached.

4.2 Functions



START

You can use this touch key to switch the apparatus on during the warm-up time.

If the tanning session has been interrupted by means of the „Stop“ key, it can be continued after touching the „Start“ key once again, provided the coin-operated counter has not run down yet.

The numerical display shows the tanning time.

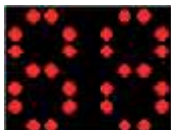
When the tanning time is over, the running text will appear again



STOP

By pressing this touch field for at least 2 seconds you can terminate the tanning session prematurely.

Running time



During the tanning program the running time is displayed in this field.

When adjusting the volume, the value set between 0 ... 99 % will be displayed in this field for a short time.

When adjusting the fan speed, the value set between 20...99 % will be displayed in this field for a short time

End of the tanning session

As soon as the tanning time is over a program to shut down the sun bed will be started:

- a soft voice reminds you of the end of the tanning session and says good-bye,
- burners, tubes and the ventilation system will be reduced step by step,
- the LEDs (in apparatuses with activeColor) will shine in the colour adjusted for another 20 seconds.

Extended menu



These double arrows point to some more menus which can be activated by pressing the „+“ or „-“ keys. The following menus are available which will be explained in more detail below:

Music channel / Air-conditioning / Colour stimulation



Aroma



Acoustic user guidance



By calling up these additional menu functions you can see which functions are activated after switching on the apparatus (=1). Special customer requests can be pre-selected in the service menu (see Section 8.3ff.)

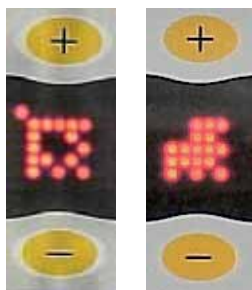
Volume



You can adjust the volume of the music by touching the „+“ and „-“ keys. The volume will be displayed in the numerical field as a value between 0 – 99 %.

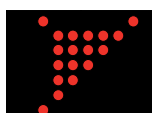
Press the corresponding sensor key

aquaCool



off

on



empty

Here you can activate the aquaCool water-atomisation function (plus button, symbol flashes) or deactivate it (minus button, symbol does not flash). Default setting at start: as defined on service level I in the AAC/Aqua menu.

- If the aquaCool supply is running low, the message Aqua low is shown on the display between the tanning sessions. When the message appears for the first time, the aquaCool supply will last approx. another 2.5 hours of operation with aquaCool.
- If the aquaCool supply is empty, the message Aqua 0% appears and the symbol is crossed out. If the system is to be used without aquaCool, you can switch off the messages and the symbol. For this purpose, set the submenu Aqua to “OFF”. To reach this menu, proceed to the AAC menu on service level II.

Facial tanners

Level II Once the tanning program has been started, the facial tanners are switched on automatically at maximum setting.

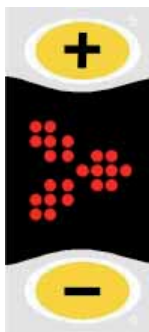
Level I To reduce the output to level I, use the field “-”.

Level 0 To switch off the facial tanners completely, touch the “-” field again for at least 3 seconds.

By touching the “+” field you can switch the facial tanners on again or you can increase their output.

When the system has been switched off, there will be a time lag before you can switch it on again due to the necessary cooling of the burners.

Body fan



The power of the body fan can be increased or reduced by steps of 10 % by touching the fields „+“ or „-“.

When switching the system on, the value is 60 %. (see Section 8 „Service“ of this manual)

When changing the value, the current setting is displayed as a two-digit number between “20%” (minimum) and “99%” (maximum) in the numerical field for a short time.

In order to switch off the body fan completely, press the “-” field several times until the value of 20% appears. Then press the “-” field once again and keep the key pressed for 0.5 seconds. After a short time lag the body fan is then switched off.

The body fan can be switched on again at any time simply by touching the “+” field.

4.2.1 First sub-menu



Channel selection



With the help of this system you can choose the audio source, e.g. change the CD or go to the next piece of music (MP3).

The MP3-player is equipped with a 256MB-chip, which can take the volume of the 3 music CDs.

The MP3-player is designed in such a way that you only have to change the chip for the music. As an optional feature, the music of the MP3-player can be turned on during the tanning breaks.

Tip: The music of the MP3-unit can only be controlled by one



Channel selection, continued

audio source, i.e. either by the chip of the MP3-player or by an external music source.

The choose of an other music source may be done by a BCD coded signal. It is possible to select up to 4 different sources.

Air-conditioning



By pressing the „+“ or „-“ keys you can switch the air-conditioning on or off during the tanning session. Once the air-conditioning has been switched off, it can only be switched on again after an interval of 3 minutes. A small star is displayed to confirm this.

If the request to switch on the system is made earlier, it will be registered (big star) and when the interval of 3 minutes is over it will be executed automatically.

Exception:

In case that the system has been switched off by means of the coin-controlled system, it can be switched on again immediately.

Note please: You will find this menu here, if there is no aquaCool.

Colour stimulation



You can only switch on one colour. The colour of the colour stimulation can be selected by means of the „+“ or „-“ key.

48 power LEDs of each colour (R red, G green and B blue) are mounted in the canopy of the tanning bed.

4.2.2 Other sub-menus

Aroma



The „aroma“ function can be switched on by means of the „+“ key above “0” and switched off by the „ - “ key below „1“. The display flashes a signal when the function is not activated. KBL can offer 2 aroma fragrances: „Sunrise“ and „Daydream“. The apparatus holds only one fragrance which can be changed very easily, however.

The fragrance is combined with a gel. Please note that the gel is not completely used up but a small rest will remain. This status is shown on the display so that the operator knows when to change the gel.

The fragrance comes out at the foot of the bed. The air stream leads the fragrance over the body to the face so that it can be perceived intensively.

aroma and aquaCool are activated one after the other (aroma – aquaCool – aroma) and start again and again in an interval of 1 minute.

Note: pureAir and aroma exclude each other. As long as aroma is given off pureAir will be switched off.

megaVoice



The „Voice“ function can be switched on by means of the „+“ key above “0” and switched off by the „ - “ key below „1“. The display flashes a signal when the function is not activated. megaVoice informs the customer in a simple and short way about the operating functions of the sunbed. If requested, megaVoice can be switched off by the customer during the tanning session.

pureAir



The „pureAir“ function cannot be switched on or off by keys.

Note: pureAir and aroma exclude each other. As long as aroma is given off, pureAir is switched off. During the tanning session, nozzles at the foot of the bed produce cleared, ionized air which is led over the whole body. Here as well, the air is led from the foot of the bed over the whole body thus reducing tanning odours.

Ionizer for the pureAir function is mounted in the foot.

4.3 Tips for the studio operator

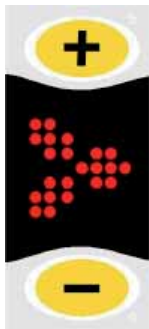
Daily checks and basic settings

Please make sure

- that the tank for the condensed water is checked and emptied every day
- that materials which have been used up are refilled (8.4) and
- that the settings which can be executed in the service levels (see 8.3) of operation, e.g. colour-stimulation, aroma, time controls etc. are made.

Please observe Section 2 of the Service Plan.

Illumination after use



The illumination (decorative) may be switched on or off if the timer signal is not active by pressing the key sequence „+“ ... „-“ ... “+“ of the body fan.

You have to press the individual buttons within a period of 1 sec. Please also bear in mind the possibility of defining two different illumination cycles for each day of the week (see 8.2 Service level I).

Error message „Abluft“ (exhaust air)

This error message is shown in the display and can be acknowledged by pressing the „Stop“ key. But before doing so, service people should repair the defect. Possible reasons of this message can be:

- the temperature in the apparatus is too high or
- the exhaust vent system is defective

For more information see 8.5

5. Maintenance of the apparatus

Preparatory works Before you open the apparatus, switch off the fuses to disconnect it from the mains supply!
Do not operate the tanning unit without the front panels, without acrylic panes or with the base section opened, because otherwise the tanner areas will overheat. This will destroy the filter panes!
As far as CPI-equipped units are concerned, the electronic switchboxes located under the bed are also exposed to the danger of overheating.

5.1 Cleaning and care

Plastic parts The bigger plastic parts are made of solid, high-quality ABS material. On top of it you will find a hardwearing, transparent PMMA-layer.

Note **The surfaces and the acrylic glass must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!**
The manufacturer cannot be held liable for any damages caused by chemically active agents such as inappropriate cleaning agents.
To clean the varnished and plastic surfaces use a damp soapy cloth.
It must be avoided at any rate that cleaning fluid runs into the apparatus.

Acrylic panes For a harmless cleaning of the acrylic panes use the special cleaning and disinfectant fluid „ megaClean “ (to be obtained from KBL) which has to be diluted in water at a ratio of 1:13

Fixing the canopy The canopy can be fixed in the upper position, to perform service and maintenance works.
 To do so, open the canopy and move the bolt at the right back to the front. If you push the bolt to the back the canopy will be released.
 After removing the screws on the left and on the right, the bed pane can be fastened to the canopy. For that purpose, use the hook and hang it into the opening in the centre between the filter mats.



Illustr. 5-1 Fixing the canopy



Illustr. 5-2 Releasing the canopy



Illustr. 5-3 Opening for hook

5.2 Dismantling the acrylic panes

Dismantling the pane in canopy and lateral part

Remove the screws and tilt down the panes.

Always put the pane frame with a soft padding (e.g. a head cushion) on the bed.

For service works, it is possible to take out the complete frame in the lower position from its support.

Mount the pane in reverse order. Make sure that the frame is correctly positioned in the hinge.

When closing the pane, all air nozzles must be matching their counterparts. If not, **carefully** push the nozzles concerned into their proper position.



Illustr. 5-4 Loosen screws



Head cushion used as a padding

Illustr. 5-5 Opening the acrylic panes

Base and duct pane

The following table shows how to clean the base and duct pane. The electronic parts installed underneath the bed must not get in contact with any moisture.

Therefore, in order to clean the underside of the base pane, the duct pane and the inner base section, use a slightly damp micro fibre cloth only.

Step	Procedure	Reference
1.	Open the canopy, bolt it.	see 5.1
2.	Undo the two pan-head screws of the base pane. Always make sure that you take the pane in the middle and use the hook to hang the pane onto the fixed canopy.	
3.	Take out the duct pane and lay it down in a safe place.	
4.	Open the bar to lift the complete base case, if necessary.	Illustr. 5-6
5.	In the centre of the lower front cover there is a square bolt. Place the enclosed key onto this square element.	Illustr. 5-7
6.	Unlock the bed by turning the key anti-clockwise. By doing so, the bed will slightly go up.	



Sqaure bolt




Bar

Illustr. 5-6 Placing the key

Illustr. 5-7 Bar of the bed frame

Closing the base pane

After cleaning the base pane, close it again. Make sure that the duct pane is in the **correct** position.

Step	Procedure	Reference
1.	If you have opened the bolt of the base case, re-bolt it again: Turn the key in the middle of the lower front cover as far as possible clockwise. The bed is drawn to the base part and is bolted firmly again.	
2.	Place the duct pane back into its place and make sure that it is in the correct position	
3.	Release the base pane and tilt it down, fasten the pane with screws.	

5.3 Filter panes

Safety function The facial tanners are equipped with an additional safety function. Behind each of the filter panes there is a safety switch that switches off the burner if a pane is missing or broken.
Do not operate the tanning system with a defective filter pane.
Carry out regular visual inspections!
Filter panes have to be replaced only by those of the same type!
The filter panes may be dismantled and replaced by trained expert staff only.

Filter panes in the canopy The following table shows how to dismantle the frame of the filter panes.

Step	Procedure	Reference
1	Dismantle the acrylic pane.	Section 3.2
2	Undo the screws of the tube cover in the facial area to remove the tube cover.	
3	Undo the screw of the lower filter pane frame. Hold the frame. Tilt it down and then take it out.	
4	Also hold the front frame when undoing the screws. Now you can take it out as well.	



Illustr. 5-8 Dismantling the tube cover



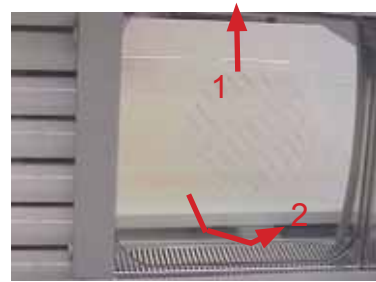
Illustr. 5-9 Dismantling the filter pane frame

Filter panes in the lateral part This frame is to be dismantled as follows:

Step	Procedure	Reference
1	Completely dismantle the acrylic pane.	Section 3.2
2	Undo the screws of the tube cover in the facial area to remove the tube cover.	Section 3.3.
3	Lift the frame and swing it forward.	Section 3.3.
4	Lift the base pane	Section 3.2



Illustr. 5-10 Dismantling the tube cover



Illustr. 5-11 Dismantling the filter pane frame

Cleaning

For a harmless cleaning of the filter panes use the special cleaning and disinfectant fluid „ megaClean “ which has to be diluted in water in a ratio of 1:13. Or use a normal glass cleaning agent with a soft cloth or a chamois leather.

5.4 Tubes and facial tanners

Dismantling

In order to clean or replace the tubes and facial tanners, please proceed as follows:

Step	Procedure	Reference
1	Completely dismantle the acrylic panes.	Section 3.2
2	Remove the tube covers in the facial area.	Section 3.3.
3	In apparatuses equipped with burners you will have to dismantle the filter panes as well	Section 3.3.
4	Tilt up the base pane.	Section 3.2

Cleaning intervals

To make sure that the tanning effect is maintained, we recommend you to clean the tubes and UV radiators with warm water and a chamois after approx. every 200 hours of use. Do not use any aggressive or alcoholic cleaning agents.

Tubes in the shoulder tanner

The shoulder tanner „activeFlex“ is equipped with 7 tubes of 25 W each. In addition, the loudspeakers are located in this element.



Illustr. 5-12 Shoulder tanner with loudspeaker (open)



Illustr. 5-13 Series apparatuses and starter for shoulder tanner (open)



Illustr. 5-14 Shoulder tanner (closed)

Replacement intervals

Tubes, facial tanners and starters have to be replaced only by those of the same type!

When installing the tubes, make sure that the inscription is visible, i.e. the reflector must be at the back.

For units equipped with CPI technology, it is essential to carry out a reset after each tube replacement! (see Section 8.3)

For units equipped with inductive technology (shoulder tanner) also install new starters when replacing the tubes!

Burner	Tubes	CPI Mode	
		Öko	Power
750 hrs.	500 – 600 hrs.	800 hrs	500 hrs.
	Exchange Tubes <u>and</u> Starters	Perform CPI Reset	

5.5 Dismantling the burners

Dismantling

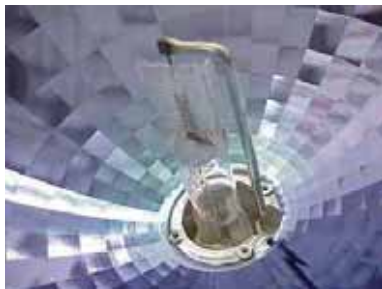
Attention! Only trained expert staff is allowed to install or remove the burners.

Take the burners with a soft cloth and pull them out towards the front. Do not touch the burner glasses or the reflector surface with your bare hand (Illustr. 5-15).

If necessary, you can clean the glass bulb and the reflector surface with an alcoholic cleaning agent.

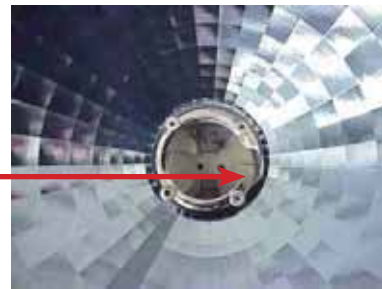
The connecting elements of the burner are not all the same thickness. When inserting the burner into the socket, the metal clamp is directed to the right to the empty space in the middle of the reflector. (Illustr.. 5-16)

During service, dirt accumulation and an incorrect positioning may lead to damages of lamps and sockets. Therefore, when inserting the burners please make sure that the contact surfaces of both sockets and burners are clean. Insert the burners in a straight position into their sockets.



Illustr. 5-15 Dismantling the burners

Empty space



Illustr.. 5-16 Socket

5.6 Unit lighting

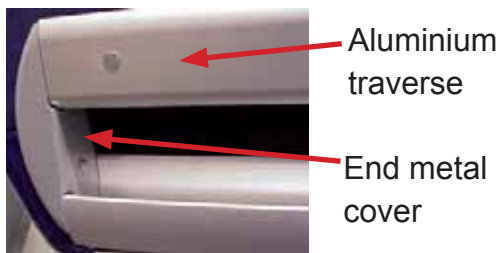
Replacing the lighting system in the canopy

The lighting system is made up of 4 tubes of 58W each.

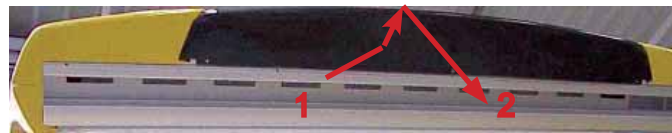
- a white tube in the lower front section,
- a coloured tube above in the canopy matching the design colour
- and two tubes for the interior (in the canopy and the back).

The starters for the tubes are in the left socket of each tube. They have to be replaced if necessary.

- Remove the end metal covers on the right and left of the handle rail. Undo the screws of the aluminium traverse and tilt it up. (Illustr. 5-17)
- Slightly lift the inserted element (loosen the velcro fastening).
- Pull out the inserted element (Illustr. 5-18).



Illustr. 5-17 Opening the canopy



Illustr. 5-18 Lifting and pulling out the inserted element

Exchanging the unit lighting in the interior

These tubes are located behind the tanning tubes.

- Open the acrylic pane of the canopy or of the back
- Remove the tanning tubes
- Exchange the corresponding tubes and if necessary the starters at the left socket as well.

Exchanging the unit lighting in the front section

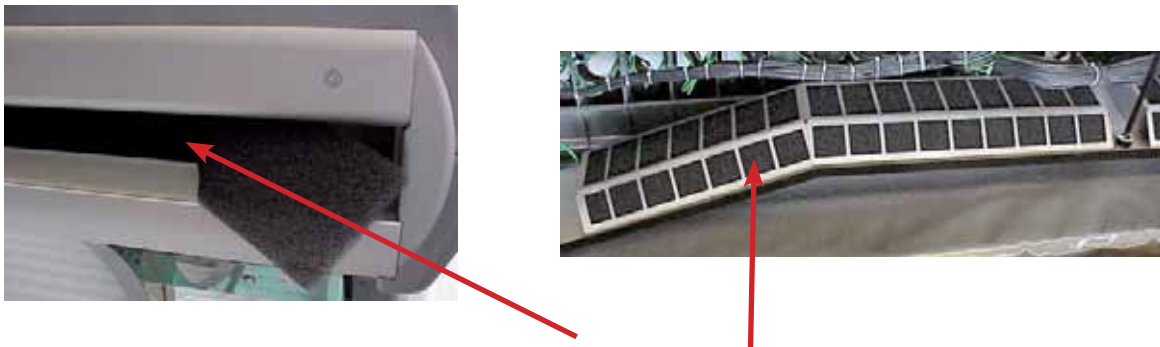
- Hang the base pane onto the bolted, open canopy.
- Loosen the bolting of the lower part of the bed and tilt up the bed (Illustr. 5-20 Illustr. 5-22)
- Now you can change the tube. If necessary, take the opportunity to exchange the starter (at the left socket) as well.

5.7 Filter mats

Cleaning intervals The cooling air is drawn in through two dust filters. Depending on the installation site, clean the filter mats or, if necessary, replace them after approx. every 100 hours of service. To ensure a trouble-free service of the unit, exclusively use original spare filter mats.

Take the opportunity to check the heat exchangers of the air-conditioning unit as well to see if they are dirty. (Section 2). Dirty heat exchangers considerably reduce the capacity of the air-conditioning unit. Vacuum-clean the heat exchangers if necessary.

Filter mats in the canopy Take one end of the handle below the filter mat to pull it out. Push the new filter mat over the whole length behind the edges of the handle.



Illustr. 5-19 Exchanging the filter mat above and below

Filter mat in the base section The filter mats are located in the lower front section. When the front cover has been removed you have free access to them and you can exchange them.

5.8 Canopy drive

Regular maintenance In order to guarantee a trouble-free operation of the canopy drive, check and service the spring ropes each time the tubes are replaced. For that purpose you will have to open the bed (see Section 3.2).

Step	Procedure	Reference
1	In the centre of the lower front cover there is a square bolt. Place the enclosed key onto this square element.	
2	Unlock the bed by turning the key anti-clockwise. By doing so, the bed will slightly go up.	
3	Open the bed completely.	
4	Check the ropes for wear. If individual wires of the rope are spliced, always replace both ropes.	Rope Set KBL # 5100001500
5	Lubricate the ropes in the area of the turn-around rolls in the base frame and of the eccentric discs in the canopy, using rope grease type HHS 2000* (KBL 1200024100).	* included in set KBL # 5100001500



Illustr. 5-20 Bed lifted up



Illustr. 5-21 Bed half open



Illustr. 5-22 Bed completely open

Tightening the springs

If the canopy does no longer remain firmly in the upper position, the two springs have to be re-tightened. For that purpose you will need a spanner type SW19.



Tensioner at the left side



Tensioner at the right side

Close the bed

Step	Procedure	Reference
1	To close the bed, push it down.	
2	Turn the key in the middle of the lower front cover clockwise as far as possible. The bed is drawn to the base part and is bolted firmly again.	

5.9 Exhaust air system

Check connecting hoses With each tube replacement, check the connecting hoses visually. Defective hoses have to be exchanged.

Maintenance A clean and trouble-free exhaust air system prevents the apparatus from overheating.

Step	Procedure	Reference
1	Open the bed (see Section 5.8) and regularly check the following items:	
2	The air hose of the air-conditioning unit must not have any kinks and must be able to blow the air off freely.	
3	The filter mats must be clean.	
4	The maximum hose length of 6 m must not be exceeded, unless there is an additional ventilator.	
5	An adequate ventilation and air extraction in the studio must always be guaranteed.	

5.10 Air-conditioning unit and condensate pump

Checks Check the heat exchangers of the air-conditioning unit for dirt particles each time a tube is replaced. Dirty heat exchangers reduce the performance of the air-conditioning unit. Open the bed (Section 5.8) and vacuum-clean the heat exchangers, if necessary.

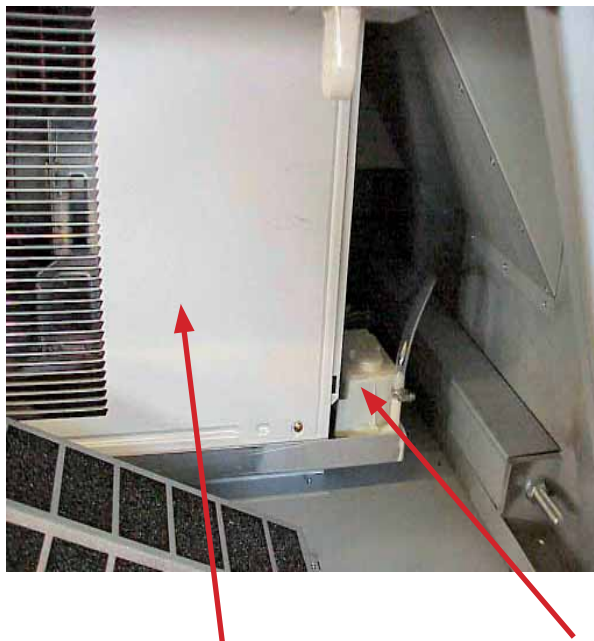
Maintenance

Check the function of the condensate pump each time a tube is replaced.

Open the bed (Section 5.8) and slowly fill the tub of the air-conditioning unit with water.

Make sure that the water is pumped off periodically. For this test, the unit must be connected to the mains supply.

By a regular and proper maintenance of the apparatus, you make a substantial contribution to the safety of the system and to a long period of trouble-free operation



Illustr. 5-23 Air-conditioning unit and condensation pump

The condensate pump is controlled by the processor in such a way that, during the tanning session, it is switched on every 5 minutes for 20 seconds each. After the tanning session is over, this sequence is repeated 3 times.



Note!

The tube for the condensate should be mounted not higher as in the tanning bed (power of the pump)!

6. Technical data

6.1 Data which all the apparatuses have in common

A board with the following information has to be permanently fixed on the cabin wall near the apparatus:

Warning! UV radiation may cause damages to eyes and skin. Ask the operating staff for further information. Wear protective glasses. Some medicaments or cosmetic products may increase the sensitivity. (UV type of the unit).

Ambient conditions

Installation site	in dry rooms with sufficient air supply and ventilation
relative humidity	≤70 %
Ambient temperature	≤86°F (30°C)
ATTENTION	The unit must not be operated if the coin/timer system or the internal control system of the maximum tanning time is defective or if a filter is broken or missing.

Condensate

Outlet	at the left-hand rear side of the unit
Disposal	Connection to sewage system or tank (capacity ≥5l)
Quantity	Depending on local conditions and air humidity
Note!	For the purpose of pumping the water off, the power supply must not be disconnected after the tanning session

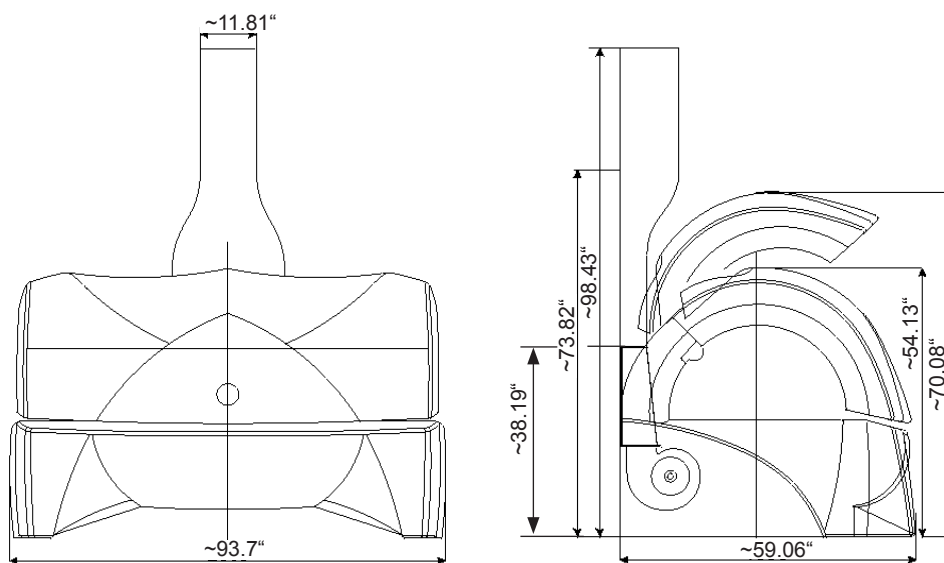
Electric connection

Mains voltage	3-phase: 3x 220 V / ~ / 60 Hz 2-phase: 2x 220 V / ~ / 60 Hz
Fuses	see tables on the following pages
Cable cross section	
Amperage	
Internal plug socket	For PCs, lamps or similar things, NOT for welding equipment, angle grinders and similar devices

Dimensions

Length x width x height	~93.7" x ~59.06" x ~70.08"
Central exhaust air duct height h_{\max} height h_{\min} diameter	~98.43" can be reduced to h_{\min} ~73.82" ~11.81"
Weight	~1300.73 lbs

6.2 Views



6.3 KBL 7900 Ultra Power

Exhaust air	ca. 2300 m ³ /h (frei blasend)
Air velocity	ca. 10 m/sec
Facial units	megaLine HP 800
Power	4x 600W
Filter panes	KBL 3020017000
Tubes	
Canopy	32x megaLine 1865 R 160W plus
Bed	22x megaLine 1865 R 160W plus
Shoulder tanner	megaLine 0525 R 30W
Rated capacity	13550 W (14800 W w. air condition)
Cable cross section	3-phase: 4x AWG6 2-phase: 3x AWG4
Fuses	3-phase: 3x 60 A (for Canada with ground fault circuit interrupter) 2-phase: 2x 90 A (for Canada with ground fault circuit interrupter)

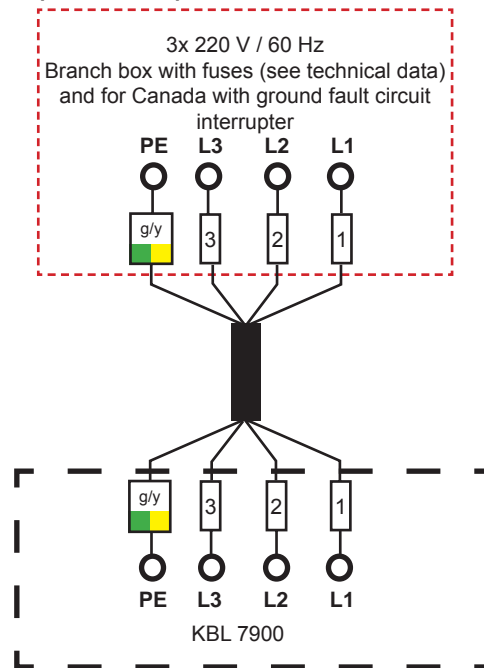
6.4 KBL 7900 Ultra Power CPI

Exhaust air	ca. 2300 m ³ /h (frei blasend)
Air velocity	ca. 10 m/sec
Facial units	megaLine HP 800
Power	4x 600W
Filter panes	KBL 3020017000
Tubes	
Canopy	32x megaLine 1870 R 160W CPI plus
Bed	22x megaLine 1870 R 160W CPI plus
Shoulder tanner	megaLine 0525 R 30W
Rated capacity	13550 W (14800 W w. air condition)
Cable cross section	3-phase: 4x AWG6 2-phase: 3x AWG4
Fuses	3-phase: 3x 60 A (for Canada with ground fault circuit interrupter) 2-phase: 2x 90 A (for Canada with ground fault circuit interrupter)

7. Wiring diagrams

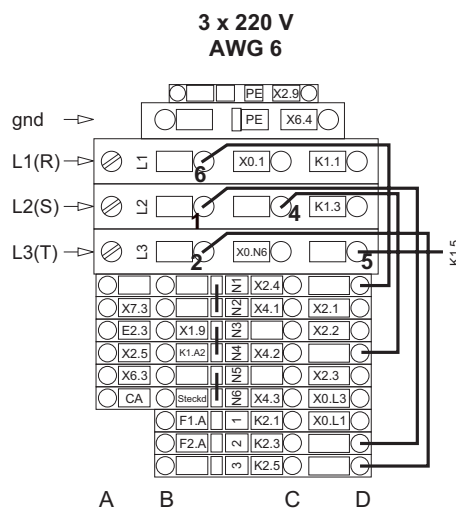
7.1 Mains voltage

The unit has to be connected to the 220 V mains; the connection is to be protected by fuses. For details on the fuses, please refer to the section „Technical data“. An ground fault circuit interrupter is required for Canada.



The sunbed is by default set up to operate on 3 phases but it can be changed over to 2-phase operation.

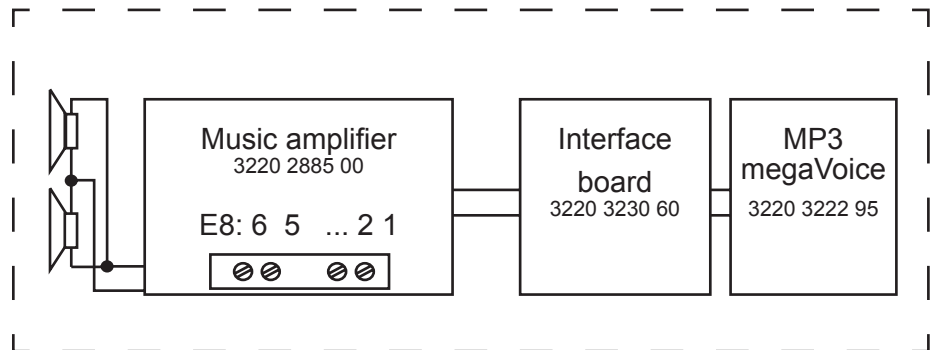
The wiring for 3-phase operation is shown below:



7.2 megaVoice without music option

Music amplifier 3220 2885 00

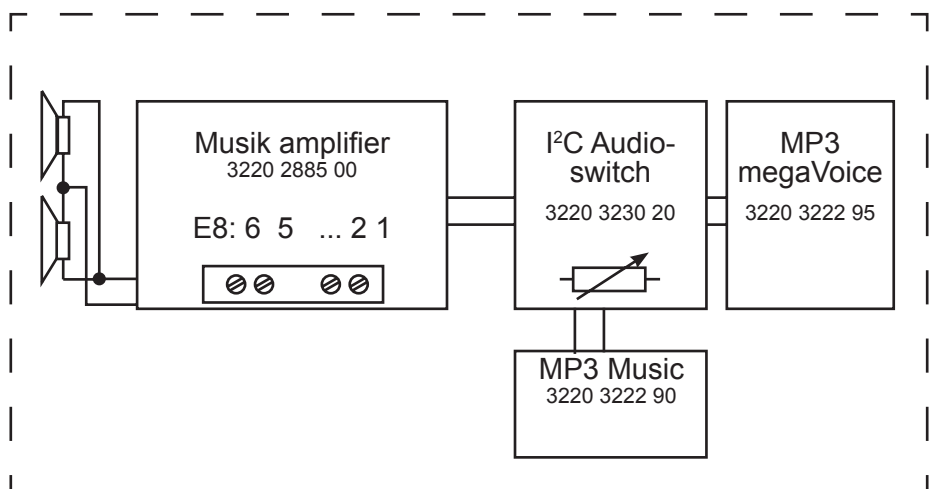
Via an interface card, the MP3-player megaVoice is connected to the music amplifier, which leads to the loudspeakers (connected in parallel, equal-phased).



7.3 Internal music signal MP3-player

Music amplifier 3220 2858 00

MP3-player and megaVoice are connected to the Audio switch which leads the music signal to the amplifier and then to the loudspeakers (connected in parallel, equal-phased).



Audio switch



MP3 Music

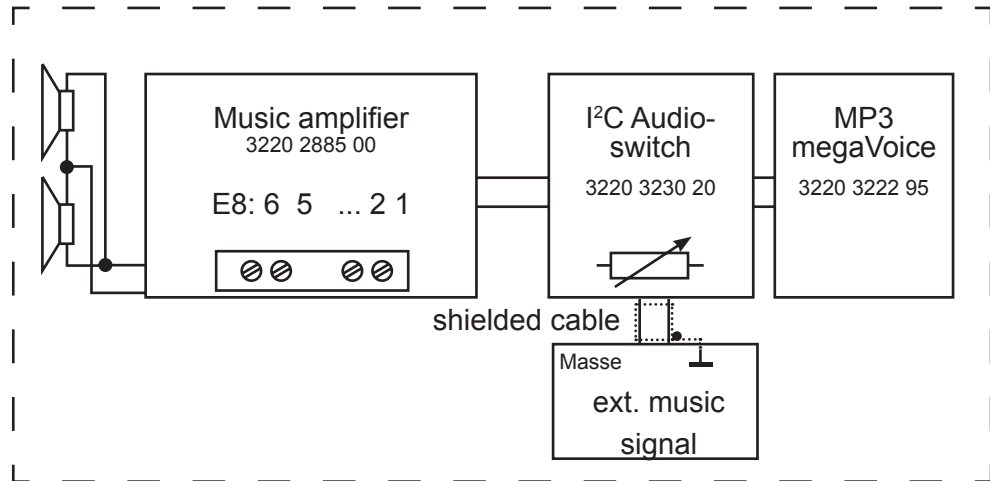


MP3 megaVoice



7.4 External music signal without channel selection

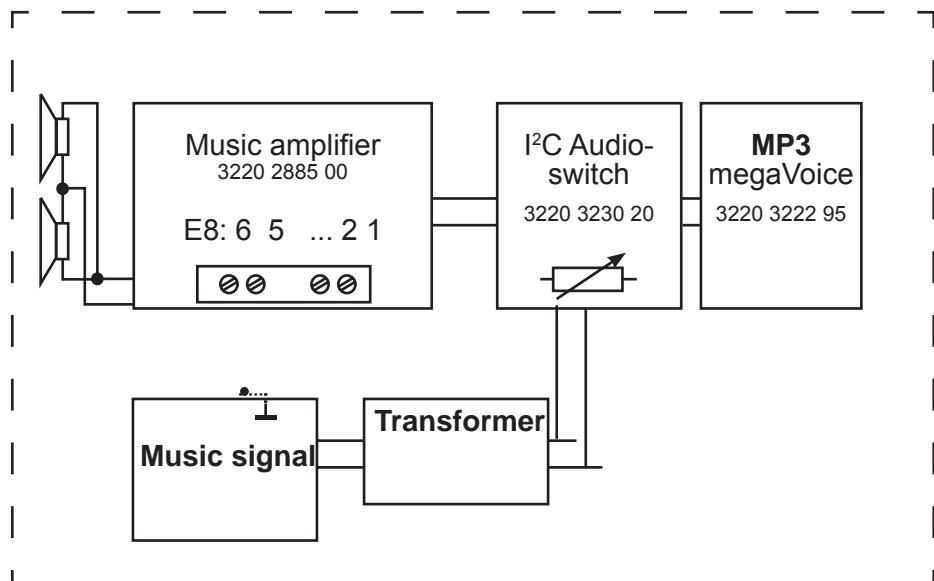
To connect the music signal use a 2-pole shielded cable, the shield has to be earthed at the signal source. The cable is connected to the marked clamps of the Audio switch. The potentiometer is used to set the signal. The loudspeakers are connected in parallel, equal-phased.



7.5 External music signal (100V) without channel selection

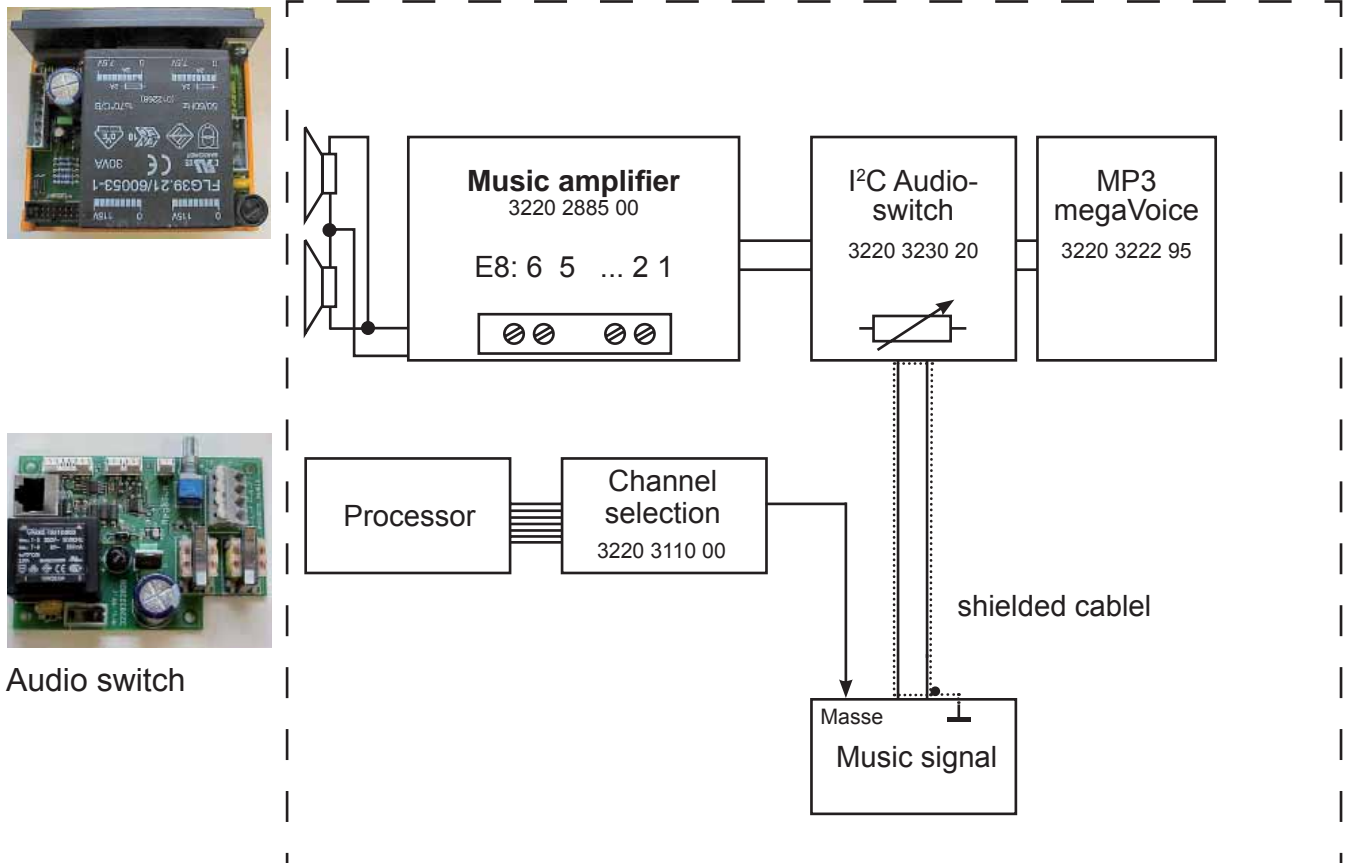
100V-Music signal For this application you will need a transmitter, type 9100017000, and the music signal is connected to the clamps "IN".

Transformer
9100 0170 00



7.6 External music signal with channel selection

To connect the music signal use a 2-pole shielded cable, the shield has to be earthed at the signal source. The cable is connected to the marked clamps of the Audio switch. The potentiometer is used to set the signal. The loudspeakers are connected in parallel, equal-phased.



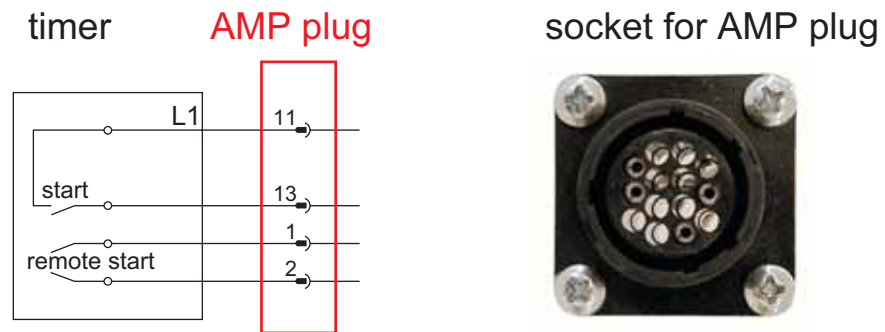
100V-Signal

If the external music signal is a 100V-signal, the transmitter is introduced into the signal path in front of the Audio switch. (see 7.4)

7.7 External Timer (except T-MAX)

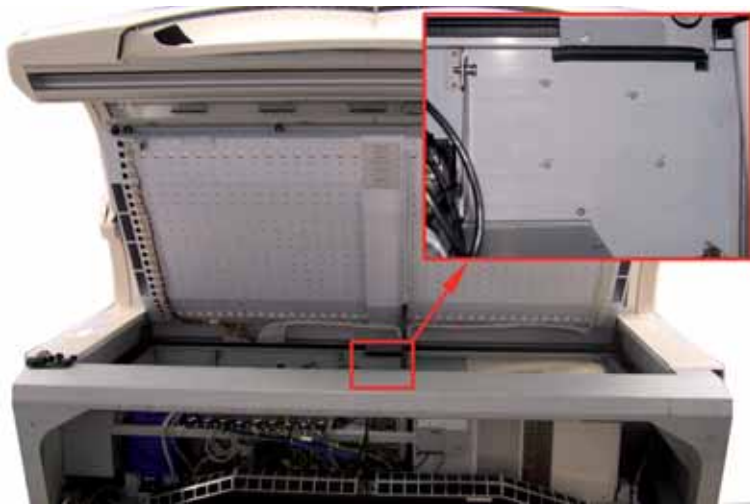
Timer

Connect the external timer (e.g. coin box, studio control) according to the instructions supplied with the timer. The connection is made via the socket for an AMP plug on the back side of the device. The following diagram shows the wiring of the timer connection.



7.8 Using T-MAX timer

Step	Procedure	Reference
1	Open the bed completely. The spacer supports for the board can be found at the inside of the back plane.	Illustr. 7-8-1
2	Attach the board to the spacer supports. Connect the edge connector and the white plug to the board.	Illustr. 7-8-2
3	Remove X.9 and connect X.9A (located at the right side of the electronics carriage).	
4	Connect the RJ22 cable to the board and guide it together with the power or RCA jack cable through the feedthrough in the back.	



Illustr. 7-8-1: Position of spacer supports



Illustr. 7-8-2: Board attached

8. Service

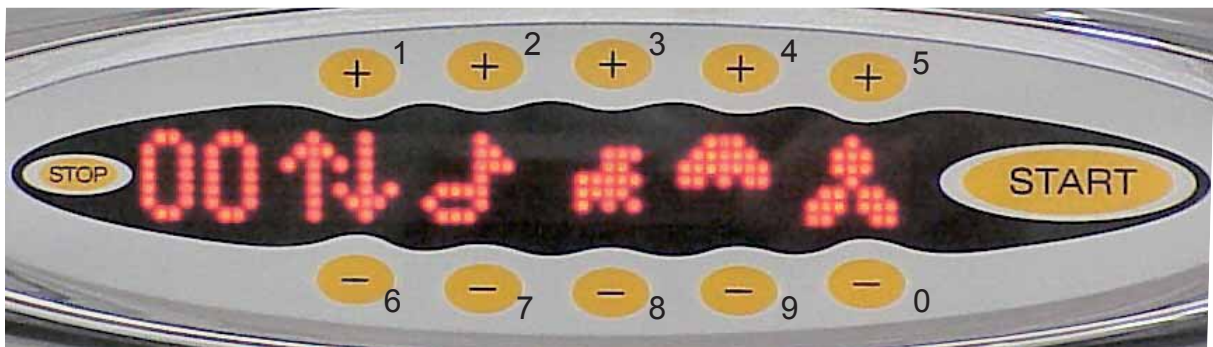
8.1 General information and structures

Service levels There are two service levels which are both accessible by passwords. To get into these levels and to release processes the touch keys 1 ... 0 have to be pressed. For that purpose, the plus and minus keys bear numbers which in the illustration below are slightly bigger than in reality.

In order to get access to the service pages, two prerequisites have to be fulfilled:

- there must not be any error message on the display
- there must not be any incoming signal from the coin/token box system

In case there is an error message you need to reset this message by touching the “Stop” sensor field.



Illustr. 8-1 Touch keys 1 ... 0 for service operations

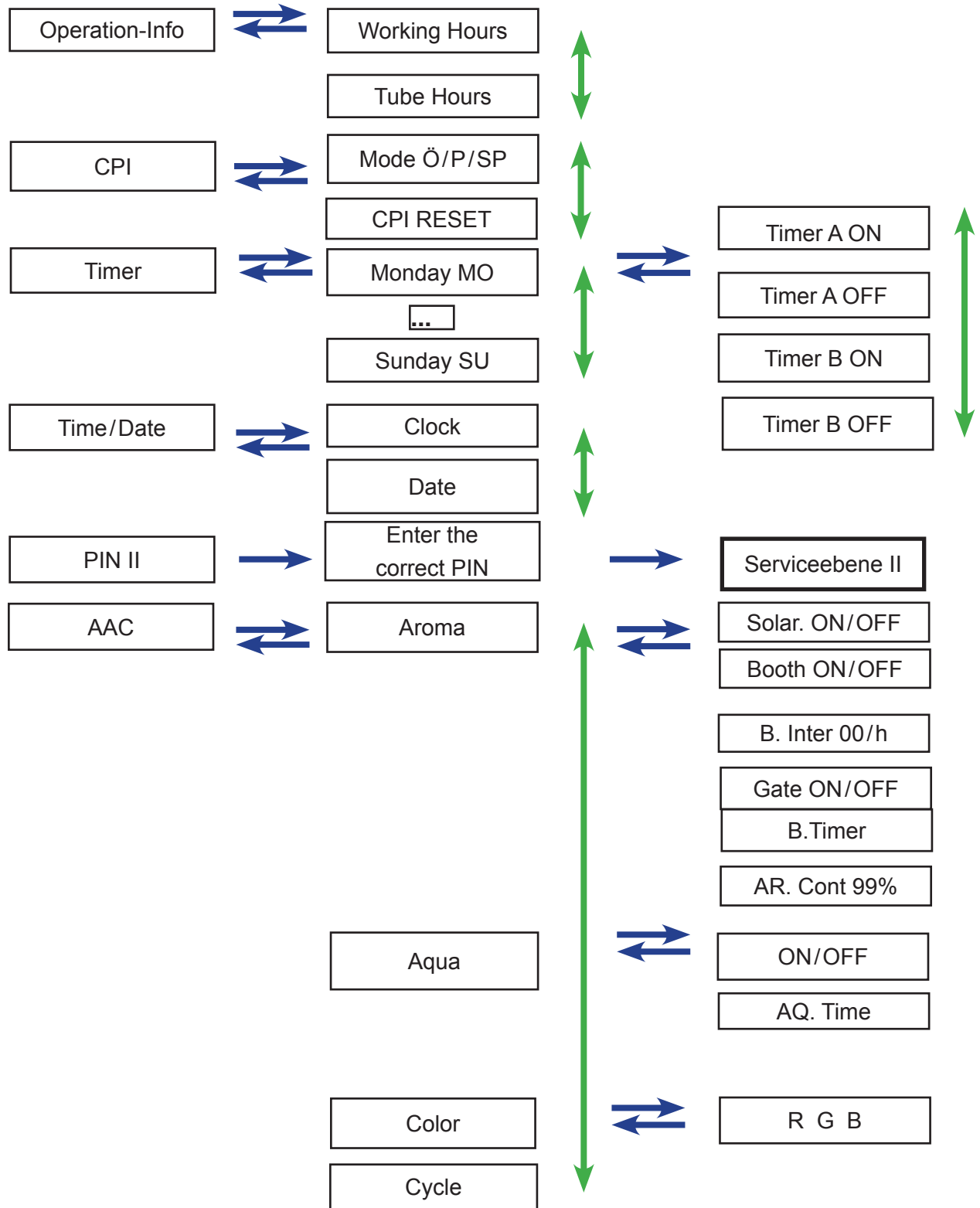
Service level I In order to get access to level I, first enter the sequence 1 6 1 and then PIN 1 1 1 1.

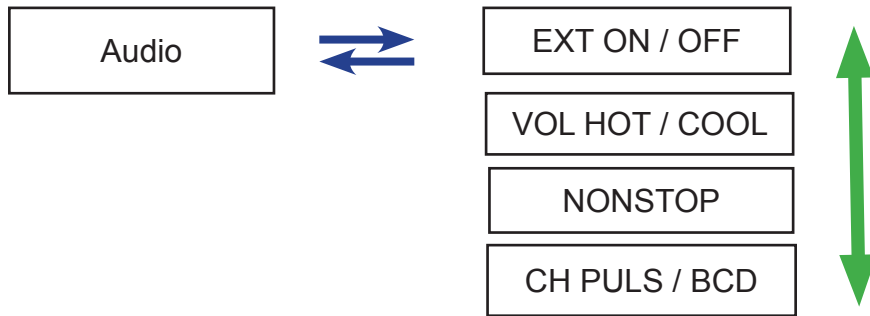
Service level II This level comprises service pages that may be used by Technical Service staff only.
Starting from level I, menu „PIN II“, you will get into level II by entering the correct PIN (not 1 1 1 1!)

General navigation When having called up service level I, the following keys can be used as follows:
Key 5 to move forward in the menu
Key 0 to move backwards in the menu
Stop key to leave service level or menu
Start key to select a menu item or to save the value displayed

8.2 Service level I

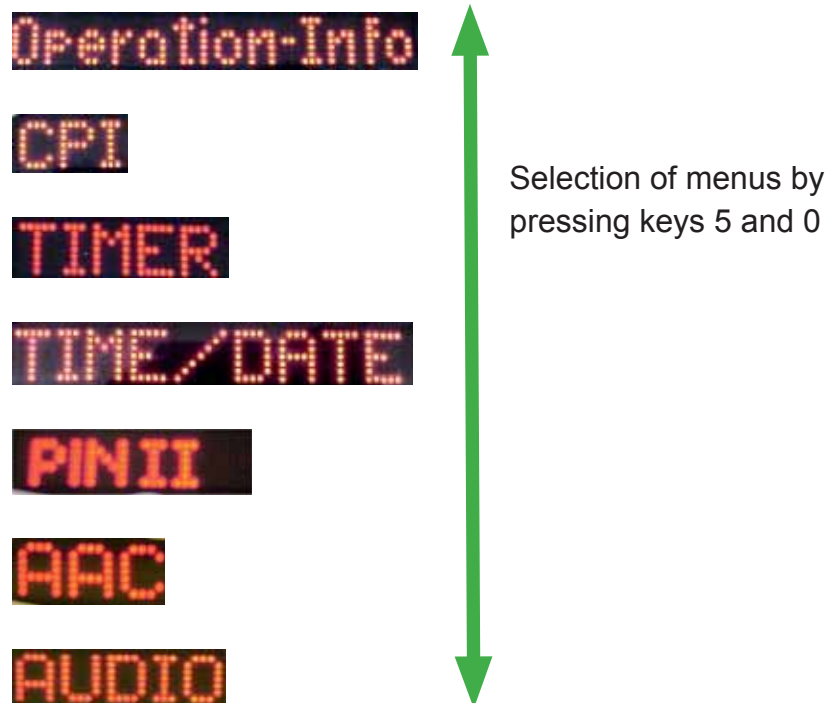
8.2.1 Structure of the menu on service level I





Overview

On this level you will find the following menus:



8.2.2 The menus on service level I

Operation-Info

In this menu, the service hours of the sunbed (WORK) and the burning time of the tubes (TUBE) are displayed.

	START	Display	Selection
Operation-Info	→	00146h WORK	5
	←		
	STOP	00000h TUBE	0



With the START key you open the sub menus.

With the STOP key you go back one level higher.

If you have changed a value and you will save it press START.

CPI

In this menu, the service hours of the sunbed (WORK) and the burning time of the tubes (TUBE) are displayed.

	START	Enter the CPI Mode	Selection	Confirmation
CPI	→	MOD: ÖKO	4	START
	←	MOD: POWER		START
	STOP	MOD: SUPER P.	9	START

CPI Reset	Selection	Confirmation
MOD: POWER	0	
CPI RESET POW	5	1

Timer

This function allows you to specify two times for switching on and two times for switching off the decorative lighting for any day of the week.

If you do not need the switching time you can delete it by pressing key 1. The hours are set using keys 2 – 4 and the minutes with the help of the keys 3 – 8

	START	Weekday: Monday to Sunday	Selection	Confirm.
TIMER	→	MO	0	START
	←		
	STOP	SU	5	

Time A/BON and A/BOF	Hours / Min	Safe
MO --:-- BOW	2 3	START
MO --:-- BOF	4 8	START

Time / Date

This menu shows time and date. Both values can be changed.

		Display Date	Selection	
TIME/DATE	START	08:37 @	5	
	→	30.01.03 TH	0	
	←			
	STOP			

Change the time	Selection	Safe
08:37 @	Std ↑ Min 1 3 6 ↓ 8	START
Change the date	Day	Safe
30.01.03 TH The day of the week appears automatically	↑ 1 ↓ 6	START

AAC

This menu has four sub-menus: :

- AROMA
- AQUA
- COLOR
- CYCLE

which can be selected – as in all the other menus – by pressing the keys „0“ and „5“

Aroma

This is a sub menu of AAC and it has also 6 sub-menus:

- SOLAR. ON / OFF: A fragrance is or is not sprayed off on the sunbed.
- BOOTH ON / OFF: A fragrance is or is not sprayed off in the booth.
- B. INTER. xx/h: Selection of the cycles per hour, when the fragrance is sprayed off. It can be adjusted to times between 00/h and 24/h
- GATE ON / OFF: A fragrance is sprayed off in the booth when the door is opened or closed.
- B: TIMER: A fragrance can be sprayed off at particular times on the days of the week. There is one interval

available for each day (for the setting see „Timer“).

- AR. CONT: Shows the filling level of the aroma gel. When it has reached 00 %, this status is also shown after the tanning session. When having replaced the tin with the aroma gel this message has to be acknowledged (see 8.3 and 8.4) by pressing touch key 1.

These sub-menus can be selected – as in all the other menus – by pressing the keys „0“ and „5“. The function is switched on by the key „+“ or off by „-“, in the same manner increased or decreased.

			Selection	Confirm.
AROMA	START	SOLAR. ON	0	START
	← →	BOOTH OFF		
	STOP	B.INTER. 15%		
		GATE ON		
		B.TIMER		
		AR. CONT 99%	5	

Aqua

This is a sub menu of AAC.

Water is „misted up“ by means of nozzles making the tanning session more refreshing.

- AQUA ON / OFF: This function can be switched on by pressing the „+“ key (4) above „OFF“, and switched off by pressing the „-“ key (8) below „ON“.
- AQ.TIME: The spraying cycle is set in the menu CYCLE and the spraying duration in this menu AQ.TIME between 2 ... 6 seconds. The details are set by pressing the „+“ and „-“ keys above or under the time display.

			Selection	on / off
AQUA	START	AQUA ON	0	4 / 9 START
	← → STOP	AQ.TIME 06 s	5	Adjust 4 / 9 START

Color

It is a sub-menu of AAC.

The colour of the colour-stimulation can be pre-selected. If you press the „+“ key above one of the letters (e.g. G), this letter (here G) will stop flashing and this colour (Green) has been selected.

When all „-“ keys have been pressed, all the letters will flash, i.e. the colour-stimulation has been inactivated.

It is only possible to choose one colour by pressing the corresponding „+“ key.

			Selection	Confirm.
COLOR	START	R G B	+ / -	START

Cycle

It is a sub-menu of AAC.

The duration of the breaks of aroma and aqua can be set between 1... 5 minutes.

The details are set by pressing the „+“- and „-“ keys above or below the time.



		Adjust	Confirm.
START	CYCLE 04m	+ / -	START

Audio

This menu has five sub-menus:

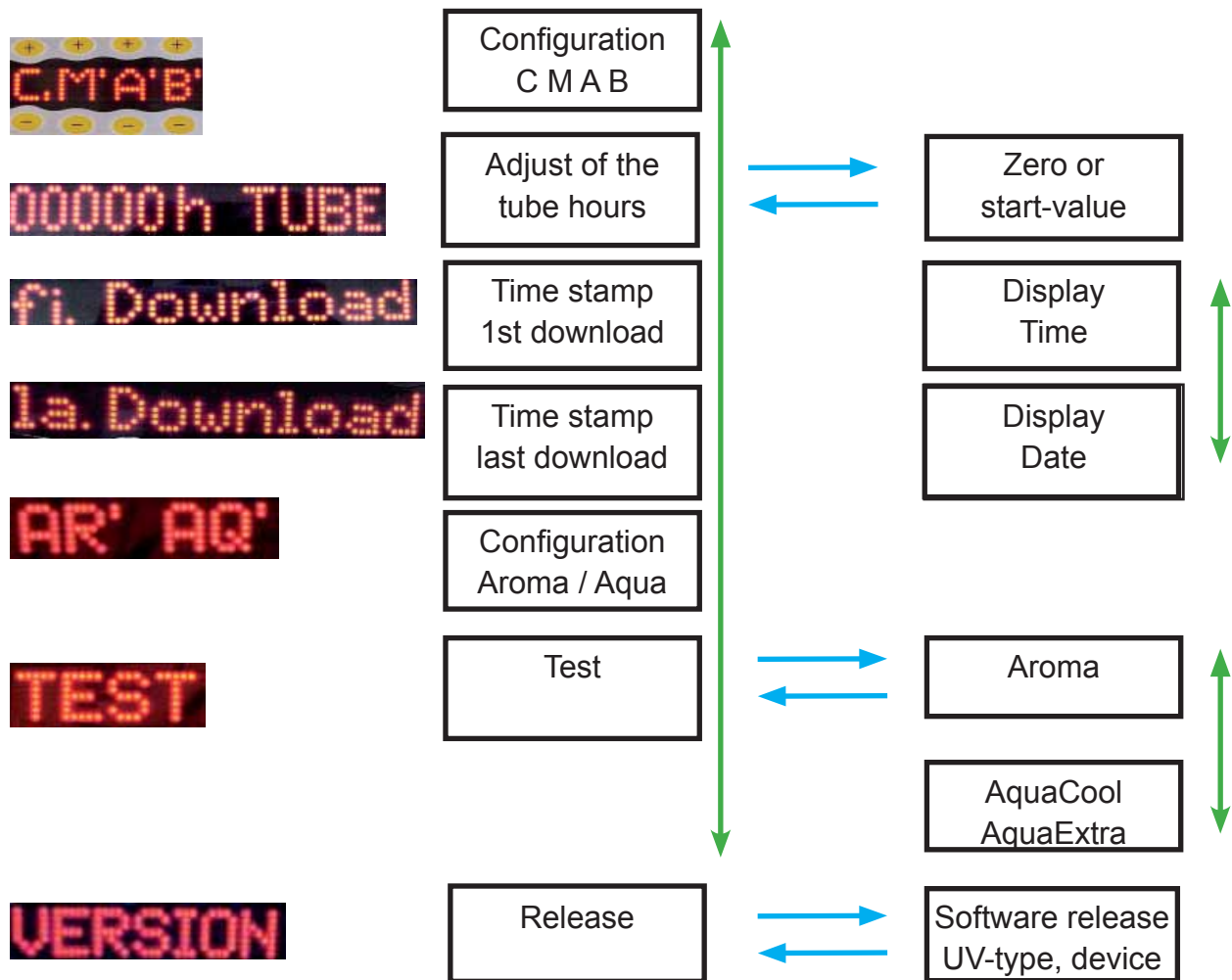
- **EXTERN:** If the signal is ON, an external source sends the music signal, otherwise the internal MP3-player is used.
- **VOL. HOT:** the volume of the music or of the user guidance system when the fan is running
- **VOL. COOL:** the volume of the music or of the user guidance system when the fan is not running.
- **NONSTOP:** when the signal is ON, the music signal is permanently amplified, otherwise the music transmission ends with the tanning cycle.
- **CH:** The channel selection may be changed from channel and volume selection to BCD selection of a music source. It is possible to select up to 4 music sources. (The volume is adjusted at the music amplifier).

The menu can be selected by pressing the „0“ and „5“ keys, the functions can be activated or inactivated by pressing the „+“ key above OFF or the „-“ key below ON, or you can increase or decrease the values by pressing +/- above the numerical value.

			on / off	Confirm.
AUDIO	START	EXTERN OFF	+ / -	START
		VOL.HOT 88%	Adjust + / -	in 2-%- Steps
	STOP	VOL.COOL 58%	Adjust + / -	in 2-%- Steps
		NONSTOP ON	on / off+ / -	
		CH PULS	Select	Confirm.
		CH BCD		START

8.3 Service level II

8.3.1 Structure of the menus in service level II



8.3.2 Menus of service level II

Configuration menus



In this menu functions can be activated or inactivated. This makes sense when the corresponding function is missing or temporarily not available (faded out).

- C Channel / Music channel
- M Music / Volume
- A Air-conditioning
- B Facial tanner

The setting can be changed by pressing the “+” or “-“ key above or below the symbol. If the two dots behind the letter are at the bottom, the respective function is inactivated.

- C: no channel selection possible,
- B: facial tanner can be operated

AR/AQ



The aroma function can be activated (AR:) or inactivated (AR.), the same goes for the aquaCool function (AQ: / AQ.).

The setting can be modified by pressing the „+“ or „-“ key above or below the symbol.

Any modifications are accepted by pressing the START key.

Tube hours

In this menu, you can set the service hours of the tubes in steps of 5 hours. This display has to be reset to zero after each tube replacement.

Attention! Always carry out a reset after each tube replacement

	Enter the hours	change	safe
START	00000h TUBE	1	START
		6	
STOP			

Time stamps

Here you can store the time stamps of the first and last download of the software.

			Selection
f1. Download	START	13:10	5
First Download			
	STOP	22.01.03	0
la. Download	START	09:34	5
Last Download			
	STOP	29.01.03	0

Test

You can also test the three functions Aroma, aquaCool and aquaExtra without a tanning program. After selecting a function, press key 1 to start the test. aquaExtra is switched on by the key 4 and off by the key 9. The cycle time is 5 min. It is use to check the quality of aquaCool.

			Selection	On
TEST	START	AROMATEST	5	1
	STOP	AQUATEST		1
		AQUA EXTR.OF	0 4	
		AQUA EXTR.ON	9	





Version

The version of loaded software is displayed since vers. 4.8. This is analogue to the display after the rst start. The version depends on the sunbed: without easyCare (here 5.3) or with easycare (here 1.8).

			Selection
VERSION	START	KBL4 eC 1.8	5
	→	KBL4 5.3	
Sub-type of the sun bed	STOP	ULTRA POW.	
UV-type		UV4	
Sun bed		MS6700-6800	0

8.4 Re-filling / Changing Aroma and aquaCool

Gel: SUNRISE and DAYDREAMS / aquaCool The gel tin and the water tank are in the base part between the air-conditioning unit (on the left) and the electronics system (on the right)

Step	Procedure	Reference
1	Open the lower front cover and regularly check the filling level of the water tank and of the aroma tin. When the content of one of the container has been used up, replace the corresponding container.	
2	Pull the holding element of water tank and aroma tin forward. .	
3	Move the covering handle on the lid of the aroma tin to the left (1) and then move the lid upward (2). Now you can replace the tin. 	
4	Unscrew the lid with the hoses from the tank and replace the empty tank by a full one. Screw the lid on again. Keep clean the end of the tubes when changing the tank (use a plastic bag). Only use the specific water by KBL „aquacool“. Otherwise the nozzles may clog up which might produce infections.	
5	Put the constructional elements back into their original place in the sunbed.	
6	Acknowledge the error message in service level I by calling up the displays shown on the right and by pressing key 1.	

8.5 Colour codes for the pipes

Colour code	The pipes are marked with colour points:
Blue	compressed air for aquaCool
Red	reflux aquaCool
Green	flow pipe aquaCool
Yellow	aroma



Abb. 8-2 Compressor



Abb. 8-3 aquaCool

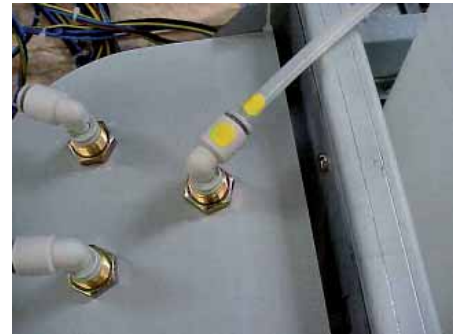


Abb. 8-4 aroma



Abb. 8-5 Canopy underside



Abb. 8-6 Canopy upper side



Abb. 8-7 Ionizor and aroma pipes



Abb. 8-8 Pipes at the nozzles

8.6 Error messages

Error message “Abluft“ oder “Windschalter“	<p>This error message is displayed on the operating panel and can be acknowledged by pressing the “Stop“ key. Prior to this, service staff has to find the reasons of these error messages. Possible reasons can be:</p> <ul style="list-style-type: none">• temperature in the unit is too high• exhaust vent system is defectiv
Error message “Ende der Besonnung“ „End of tanning session“	<p>This message will be displayed after 40 minutes of uninterrupted operation of the tanning system. By turning off the coin-operated system this message is acknowledged.</p>
BUS-Error	<p>Daten line of the Bus I²C-Bus is disturbed</p> <ul style="list-style-type: none">— 220 V is missing at MP3-Player or Audio Switch— Bus connector at MP3-Player in wrong position
E01BUS:ABL	<p>There is not any data link between the controller board and the revolution control... Reason: defective or not connected I²C revolution control.</p>
E02:BUS:TMP	<p>Reason: defective or not connected I²C temperature sensor. Solution: press the START key. The blower is running with max. revolution during the temperature controll.</p>
E04:BUS:VOIC	<p>Reason: There is not any data link between the controller board and the MP3 player Voice. Solution: press the START key. The controller is working as one w/o megaVoice. Reason:</p> <ul style="list-style-type: none">— missing soldering bridge on MP3-Player megaVoice,— SD card not readable— formatting or wrong inserted,— Plug at MP3 iInterface or at I²C Audio switch is inserted uncorrect.
E05BUS:REL	<p>Configuration error: I²C-Relay board (8) an I²C Relais board (2) at the same time connected.</p>

9. Tanning instructions

9.1 General tanning instructions

1	Different skin types react differently to sun and tanning times. Follow the skin type table and the individual tanning program (see p. 56 ff.). Once you have reached your final tanning result, further tanning can only be achieved by considerably exceeding the recommended tanning times. This has to be avoided at all costs!!
2	UV radiation from the sun or from UV apparatuses may cause damages to skin or eyes. These biological effects depend upon the quality and quantity of the radiation as well as on the skin and eye sensitivity of the individual customer.
3	Sunburn can be a reaction of the skin after excessive radiation. Excessively repeated exposures to UV radiation from the sun or from UV apparatuses may lead to premature ageing of the skin and increase the risk of getting skin cancer.
4	Unprotected eyes may become inflamed on their surface or in some cases, e.g. after a cataract operation, the retina can be damaged after an excessive UV exposure. Cataracts may develop after many repeated exposures.
5	Special care is necessary in cases of pronounced individual sensitivity to UV radiation and in cases where certain medicines or cosmetics are applied.
6	It cannot be said in any case that the use of a sunbed reduces the risk of getting sunburn.
7	The apparatus must not be operated when the timer or the filter panes are defective.
8	The following safety precautions have to be taken: Safety precautions <ul style="list-style-type: none"> • Always use the goggles provided. • Remove any cosmetics before the tanning session and do not use any sunscreens. • Refrain from tanning when taking medicine which increases the sensitivity to ultra-violet radiation. If in doubt, ask your doctor for advice. • Allow a period of at least 48 hours between the first two tanning sessions; do not sunbathe and use the apparatus on the same day. • Follow the recommendations concerning tanning times and tanning intervals (see 56 ff). • See a doctor when your skin produces persistent swellings or sore points, or when pigmented moles change their appearance.

9	<p>The following groups of people are not allowed to use the apparatus:</p> <ul style="list-style-type: none">• children• people with pace-makers• people who get sunburn without tanning when exposing themselves to the sun• people suffering from sunburn• people who suffer or have suffered from skin cancer or who are predisposed towards it
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