

# Operating and Service Manual



# 7000

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# 1 General Safety Instructions

**Please observe the following safety instructions:**

**Tanning times** Never exceed the recommended duration of a tanning session.

Section **Fehler! Verweisquelle konnte nicht gefunden werden. Fehler! Verweisquelle konnte nicht gefunden werden.** p. **Fehler! Textmarke nicht definiert.** pp

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**Disconnecting**



**Before opening the unit switch off the fuses to disconnect the system from the voltage supply!**

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**Facial tanners**

Do not operate the tanning system if a filter pane is defective.

Section 4.3 Filter panes page 18

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**Technical parameters**

The data indicated in the tanning schemes are based on the assumption that both tubes and burners are replaced at regular intervals.

Section 4.4 Tubes{ XE "Tubes" } and UV burners p. 19

With regard to tube replacement remember to reset the control and the working hour counter of the tubes.

See **Service Level I** page 10

and **Service Level II** page 12

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**Mechanical parts**

The canopy drive has to be serviced regularly with each tube replacement.

This includes the replacement of the drive rope after 3,000 hours of operation.

Section 4.8 **Fehler! Verweisquelle konnte nicht gefunden werden.** page 23

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**Cleaning**

Do not use any cleansing agents other than the ones approved by KBL Solarien AG.

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Section 4.1 **Fehler! Verweisquelle konnte nicht gefunden werden.** page 15

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## 2 Operating{ XE "Operating" } during the tanning program

### General

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

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

The facial tanners are always switched on with a certain delay.

---

### 2.1 Main display{ XE "Main display" }



**Run display line** Touch the operating display anywhere to make the run display line stop and go out. Now the main menu appears.

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### Main display

Touch the sensor field "Info" in order to have the various functions displayed. As soon as the unit has been enabled by the corresponding signal from the coin-operated studio control system, touching the respective sensor field may operate it. Any input is confirmed by a beep tone.

Should the system detect any technical defect, this will be displayed as a run line.

---

### Start



This field can be used to switch on the unit during the warm-up time. Touching the "Stop" sensor field has interrupted the tanning session; it may be continued after touching the "Start" field, provided that the total runtime has not elapsed yet.

In the case of the runtime having elapsed before, the run line will be displayed again.

---

### Stop



By touching this sensor field for at least 2 seconds the tanning program can be terminated prematurely.

Only the sensor fields "Stop" and "Start" will be visible in this case.

---

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## Run Time

While the tanning program is running, the runtime is indicated on the display below the "Stop" sensor field. { XE "Run time" }



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## Display of functions

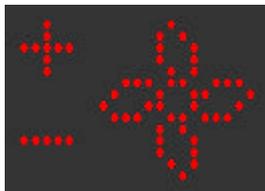
The various functions are selected by touching the arrows. { XE "Display of functions" }



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## Body fan

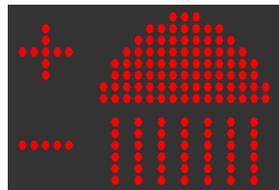
The power of the "body fan" can be continuously increased or reduced by touching the fields "+" or "-". The current setting is displayed in the form of a two-digit number between "20" (minimum) and "99" (maximum) below the "Stop" sensor field.



In order to switch off the body fan completely, set the value to its minimum by touching the "-" field and then keep this field pressed for at least another 2 seconds. The display will then show "00". The body fan can be switched on again at any time simply by touching the "+" field. { XE "Body fan" }

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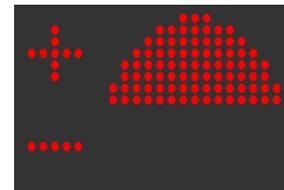
## Facial tanners



Level II



Level I



Level 0

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

**Level I** Using the field "-" the output level can be reduced by one step (to level I).

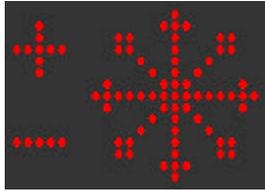
**Level 0** By touching the field "-" again for at least 3 seconds the facial tanners are completely switched off.

Touching the "+" field you can switch the facial tanners on again or increase their output. { XE "Facial tanners" }

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### Air-conditioning unit



This function is displayed only in the case of your tanning system being equipped with an air-conditioning unit. During the tanning session the air-conditioning unit can be switched on and off by making use of the sensor fields "+" or "-". If the air conditioning unit is switched off, it can be switched on again after 3 min. A small asterisk shows this status. If "+" is pressed within this delay time the request is saved (shown by a big asterisk) and after 3 min. the unit will be switched on automatically.

Exception: If the timer switches off the air conditioning unit, so it is possible to switch on the unit without any delay time. ⌘ XE "Air-conditioning unit" ⌘

---

### Volume



This function will be displayed only if the tanning system is equipped with an audio system without channel selector. The volume of the music can be continuously adjusted by touching the fields "+" and "-". The current volume is displayed below the field "Stop". ⌘ XE "Music:Volume" ⌘

---

### Channel selection

This function will be displayed only if the tanning system is equipped with an audio system with channel selector. Touching the fields "V+" or "V-" can adjust the volume. To select from the music channels offered, touch the fields "K+" and "K-". ⌘ XE "Music:Channel selection" ⌘



---

## 2.2 Service Display{ XE "Service Display" }

### Service

There are two service levels opened by passwords.  
On each service page you will find an "H" field (= HOME) on the right of the arrow fields so that you can easily return to the operating functions at any time. All settings made will be stored.  
To be able to enter the service page the following two prerequisites must be fulfilled:

There must not be any error message displayed.  
Should there be an error message, however, you have to clear the display by touching the sensor field "Stop" for at least 3 seconds.  
There must be no incoming signal from the coin system.

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### Service Level I

If both of these requirements are met, touch the field "Stop" for at least 3 seconds so as to enter the service level I. The following page will appear: { XE "Service Level I" }



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### Working hours of the tanning system

After entering the PIN code 1 1 1 1 you may access the following service pages. Display of working hours count



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### Working hours of tubes

The upper line states the working hours of the tubes; the lower line shows the max working time of the tubes.



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### Operating mode

The mode that has been set is displayed. To select a different mode, touch the fields "+" or "-".

Please note that the new selection will become effective only after a reset has been carried out.



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### Reset of CPI systems



The operating mode currently active is indicated above the Home field.

In order to carry out a reset, touch the "CPI" field as long as the display starts blinking. This is to confirm that the number of operating hours of the tubes has been reset to Zero. { XE "CPI:Reset" }

At the same time any changes made with regard to the selection of the operating mode will become effective. You can keep track of the change in mode in the upper right part of the display.

**NOTE! You must carry out a reset after each tube replacement!**

---

### Additional cooling of the bench

A menu allows choosing an additional cooling of the bench. At the end of a tanning cycle the body fan is still working for 3 min. and the air conditioning unit for 1 min. This function is activated by touching "+" and "S" ( it means "Summer") is displayed. Otherwise with "-" this function is switched off and "W" (it means "Winter") is displayed. Touching "H" when leaving the service level saves the function.



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## Service Level II

This level comprises service pages that are only accessed by the Technical Service. { XE "Service Level II" }



After entering a further PIN code the following pages will be available:

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## Configure options



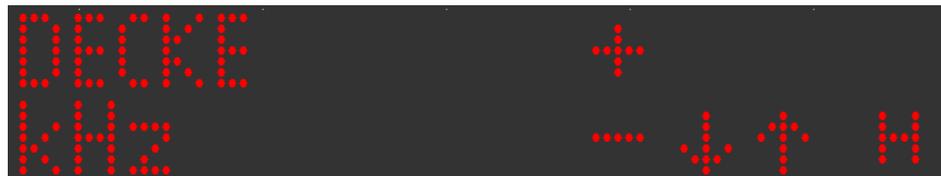
By touching the fields "+" you activate the elements that need to be displayed for the user according to the equipment of the tanning system. Touching the "-" causes that these elements are not displayed at all

M±	music / volume
C±	channel selection
A±	air-conditioning unit
B±	burner

The function "channel selection" is only available in combination with the function "music / volume".

---

## Simulated time advance of CPI system



By using the "+" and "-" fields the control frequency of the CPI system can be changed. Any change will influence both the canopy and the bed section. Connect a frequency meter to your control board in order to keep track of the setting.

**Warning! Any change in frequency will also change the tube output. Improper adjustments may entail the risk of burning. These settings may therefore be made by trained specialised staff only.**

---

## 2.3 Terminating{ XE "Terminating" } the program

### Automatic termination by the coin-operated system

The tanning lamps are switched off automatically once the program has been completed. The exhaust air fans and the body fan continue to operate for another 3 minutes in order to cool the unit down.

---

### Premature shutdown using the "Stop" field

The tanning lamps may be switched off before the tanning time has elapsed by touching the "Stop" sensor field. Only the "Stop" and the "Start" field remain visible. The coin system, however, continues to count the time.

To use the remaining tanning time, touch the "Start" field. The tanning time then displayed starts at "00" again.

---

## 2.4 Decorative lighting{ XE "Decorative lighting" }

### Lighting



The unit has an additional lighting system, which can be switched on for decorative purposes.

Below the "Stop" sensor field there is another sensor field on the left side; this field is not visible in order to prevent studio clients from touching it. By touching this field you switch the decorative lighting system on or off.

While there is an incoming signal from the coin-/token-operated system, this sensor field cannot be activated.

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### 3 Shoulder tanner megaFlex{ XE "megaFlex" } (optional equipment)

**megaFlex** "megaFlex" is a highly efficient shoulder tanner that does not require any additional heat-generating lamps and that does not consume any additional energy. Due to the optimum positioning of the radiation-concentrating reflection surfaces – close to the shoulders – a tanning power of approx. four times the power of traditional systems is achieved.

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**Positioning** Optimum tanning in the shoulder area is achieved by positioning the megaFlex as well as the head cushion as shown in the following illustrations. The edge of the head cut-out touches the outer edge of the base frame. The distance between the outer edge of the megaFlex and the longitudinal edge of the base frame should be the same on both sides.

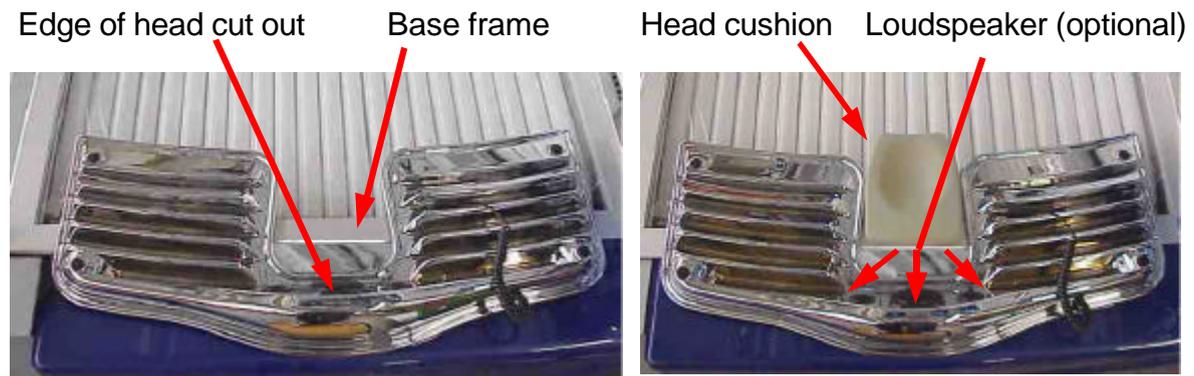


Fig. 4.1 Positioning on the bed surface

Fig. 4.2 Head cushion and loudspeaker

**Care** The surface of megaFlex is hard-chromium plated. It can therefore be cleaned by using any non-abrasive cleaning agent, e. g. "megaClean".

**Warning! Do not spray any cleanser into the loudspeakers (optional equipment) !**

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## 4 Maintenance{ XE "Maintenance" } of the unit

**Preparations** Before opening the unit, switch off the fuses to disconnect it from the mains supply!  
Never operate the unit without the front panels, without acrylic panes or with the base section opened, since otherwise the tanner areas will become overheated so that the panes will be destroyed. As to CPI-equipped units, overheating is also a danger to the electronic ballasts located underneath the bed surface.

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### 4.1 Cleaning{ XE "Cleaning" } and care

**Plastic parts** The larger plastic parts consist of solid high-grade ABS copolymer material. They are coated with a wear-resistant, transparent layer of PMMA material.

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**Hint** **The surfaces and the acrylic glass must in no case be cleaned with concentrated disinfectant or solvent or other liquids that contain alcohol.**  
**The manufacturer is not liable for damage caused by chemically active agents such as unsuitable cleaning agents.**  
**To clean the lacquer and plastic surfaces, use a damp soapy cloth.**  
**The cleaning fluid must not run inside the appliance.**

---

**Acrylic panes** However, the special cleaning fluid and disinfectant "megaClen" supplied by KBL, to be diluted in water at a ratio of 1: 13, is recognised as safe for use on the acrylic surfaces.

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## 4.2 Acrylic panes{ XE "Cleaning:Acrylic panes" }

### Cleaning / dismantling the pane in canopy and lateral part

Undo the screws and tilt the pane downwards.  
 Always protect the pane frame by placing a soft object (e. g. head cushion) underneath before laying it on the base surface.  
 The complete framework, when in the lower position, can be lifted out of the hinge support for servicing purposes.  
 Replace the pane in reverse order. Ensure that the frame is correctly positioned in the hinge.  
 Should not all of the air nozzles match their counterparts after having replaced the pane, **carefully** push the nozzles concerned into the correct position. { XE "Pane:dismantling" }



Fig. 3.1 Acrylic panes – Undo screws

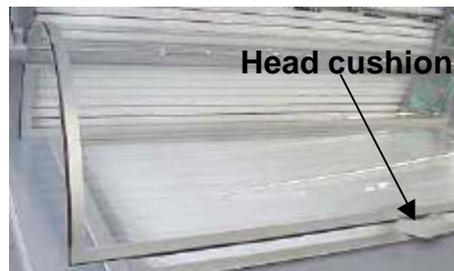


Fig. 3.2 Opening the acrylic pane seals

### Cleaning the base pane{ XE "base pane" }, the ducting pane{ XE "ducting pane" } and the inner base section

The electronics installed under the bed surface must not get in touch with any moisture. Therefore, in order to clean the underside of the base pane, the ducting pane and the inner base section, use a slightly damp cloth only.

---

Step	Procedure	Reference
1	Remove the megaFlex shoulder burner before you open the base pane.	
2	To be able to clean the underside of the base pane, the ducting pane and the inner base section, the base pane has to be tilted upwards. When doing so, always take hold of the front centre part of the pane.	

3	There is a square bolt located in the middle of the lower front panel. Apply the wrench supplied on this square bolt	Fig. 3.3
4	Unlock the bed surface by turning the wrench in anti-clockwise direction. This causes the bed to rise slightly.	
5	Now push the lock bolt located in the middle of the front base frame to the right so as to unlock the base pane completely.	Fig. 3.4
6	Lift the base pane evenly until the lateral supports engage in the first catch position.	
7	Firmly locate the base frame by turning the wrench in the lower front panel as far as possible in clockwise direction.	
8	Lift the base pane until the lateral supports engage in the fourth (and last) catch position.	



Square bolt



Lock bolt



Fig. 3.5 Tilting the base pane

Fig. 3.3 Apply wrench

Fig. 3.4 Lock bolt at the base frame

**Close the bed**

After the cleaning procedure close the bed surface again and mind the correct position of the duct pane:

Step	Procedure	Reference
1	Lift the base pane as far as possible so that the lateral supports disengage.	
2	Now guide the base pane downwards onto the base frame.	
3	Unlock the base frame by turning the wrench in anti-clockwise direction. This causes the base frame to rise slightly)	Fig. 3.3
4	In order to firmly locate the pane in the frame, push the lock bolt in the middle of the frame to the left .	Fig. 3.4
5	Turn the wrench in the middle of the lower front panel as far as possible in clockwise direction. The base frame is then attached to the base part and firmly locked again	

### 4.3 Filter panes{ XE "Filter panes" }

**Safety function** The facial tanners are equipped with an additional safety function. Behind each of the filter panes there is a safety cutout switch that switches off the burner in the case of a missing or broken filter pane.

**Important!**

**Never use the tanning system with a defective filter pane. Carry out regular visual inspections. Filter panes may only be replaced by ones of the same type. The filter panes may be dismantled and installed by trained expert personnel only.**

**Filter pane frame{ XE "Filter pane frame" } in the canopy** The next procedure shows the dismantling of the filter frames and panes in the canopy

Step	Procedure	Reference
1	Dismantle the acrylic pane.	see 3.2
2	Undo the screws fixing the tube covering in the facial area in order to be able to remove the tube covering.	
3	Undo the retaining screw of the lower filter pane frame. Hold on to the frame while doing so. Tilt the frame downwards and lift it out	
4	The front frame can also be dismantled after the retaining screw has been loosened. Hold on to this frame, too, when undoing the screw.	



Fig. 3.6 Dismantling the tube covering



Fig. 3.7 Removing the filter pane frame

**Filter pane frame in the lateral part** The next procedure shows the dismantling of the filter frames and panes in the lateral part

Step	Procedure	Reference
1	Dismantle the acrylic pane.	see 3.2
2	Undo the screws fixing the tube covering in the facial area in order to be able to remove the tube covering.	
3	Lift the frame and swing it forwards.	

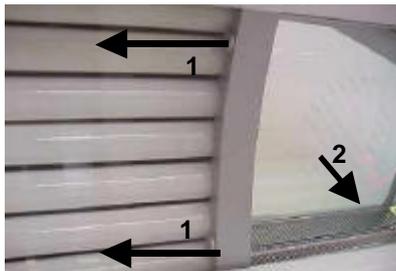


Fig. 3.8 Dismantling the tube covering

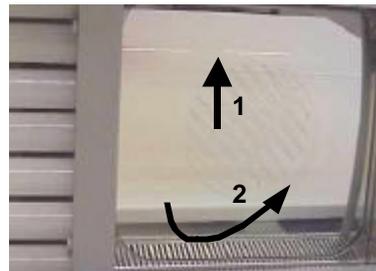


Fig. 3.9 Dismantling the filter pane frame

### Cleaning

To clean the filter panes use the cleaning and disinfecting agent "megaClean" (to be diluted), or any household glass-cleaning agent on a smooth cloth or wash-leather.

## 4.4 Tubes{ XE "Tubes" } and UV burners{ XE "UV burners" }

### Replacement

In order to be able to clean or replace any tubes or burners, you have to carry out the following procedure:

Step	Procedure	Reference
1	Dismantle the acrylic pane.	see 3.2
2	Remove the tube coverings fixed between body area and facial area	see 3.3
3	<i>XXL unit:</i> the tube coverings at the foot part have to be removed as well. The tubes can now be accessed freely. <i>Units equipped with burners:</i> remove the filter panes for access	see 3.3
4	Tilt the bed surface upwards	see 3.2

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**Cleaning cycle** To ensure that the tanning effect is retained, we recommend that the tubes and UV burners are cleaned with warm water and a wash leather after approx. every 200 hours of use. Do not use any aggressive cleaning agents or products that contain alcohol.

---

**Replacement cycle** { XE "tubes:exchange cycle" }

**Tubes, UV burners, and starters may only be replaced by ones of the same type!**  
**When installing the tubes, make sure that the inscription is visible, which means that, facing the tubes, the reflector is at the back.**  
**You must carry out a reset after each tube replacement at CPI-equipped units! (see section 1.2)**  
**You must exchange all starters after each tube replacement at inductive controlled units!**

All units with facial burners	Inductive controlled units	CPI controlled units			
		with facial burners		w/o facial burners (XXL)	
		Mode		Mode	
<b>Burners</b>	<b>Tubes <u>and</u> Starters</b>	<b>Eco</b>	<b>Power</b>	<b>Eco</b>	<b>Power</b>
<b>500 – 600 hrs.</b>	<b>500 – 600 hrs.</b>	<b>800 hrs.</b>	<b>500 hrs.</b>	<b>1000 hrs.</b>	<b>800 hrs.</b>
<b>Perform Reset!</b>					

---

## 4.5 Replacing the burners

**Remove the burners**

The burners{ XE "burner:installation" } may be installed or removed by trained expert staff only.

Step	Procedure	Reference
1	Hold the burners with a soft cloth and pull them out towards the front. Under no circumstances touch the burner glass and the reflector surface with your bare hands.	Fig. 3.10
2	If necessary, clean the bulb and the reflector surface with an alcohol-containing cleanser	
3	The burner contacts differ in width. When inserted into the socket, the metal shackle faces to the right towards the recess in the centre of the reflector	Fig. 3.11
4	The accumulation of dirt and incorrect positioning can lead to damage of the lamps and sockets. On inserting the burners the cleanliness of the burner surfaces in contact with the sockets is essential. Insert the burners straight into their sockets.	

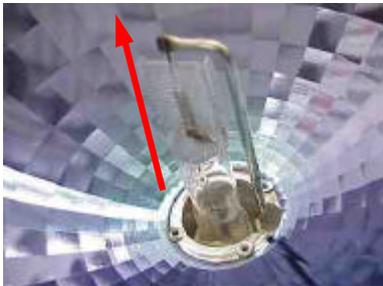


Fig 5.10 To remove the burners

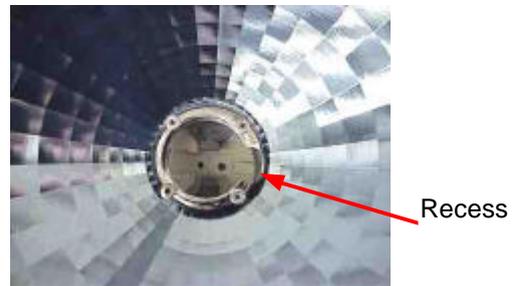


Fig. 3.11 Socket

## 4.6 Unit Lighting megaLight{ XE "megaLight:Replacing:" }

**Replacing the lighting system in the canopy**

The next table shows the procedure.

Step	Procedure	Reference
1	Remove the end plates of the grip edge on the right-hand and left-hand side	
2	Loosen the screws (5 pcs.) of the aluminium beam and open it	Fig. 3.12
3	Slightly lift the insert, undoing the Velcro fasteners. Pull out the insert. Now you can access the tube.	Fig. 3.13

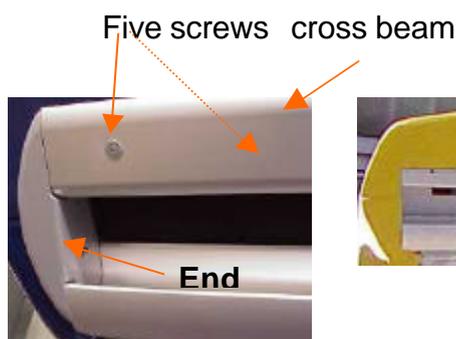


Fig. 3.12 Opening the canopy

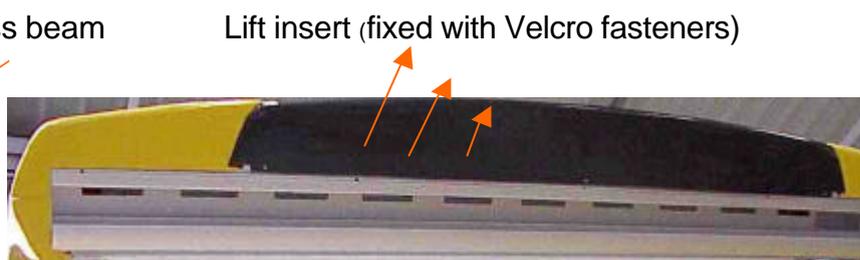


Fig. 3.13 Lifting and removing the insert

#### Replacing the lighting system in the front part

Loosen the two screws at the lower part of the front insert. Lift the front insert carefully on one side in order to start undoing the Velcro fasteners. You have then free access to the tube.

#### 4.7 Filter mats{ XE "Filter mats" }

##### Cleaning cycle

The cooling air in your tanning system is drawn in through two dust filters. Clean filters are a necessary requirement in order to keep the system in good working order. Depending on the installation site, the filter mats should be cleaned or, if necessary, replaced after approx. every 100 hours of use.

To ensure that the unit operates correctly only original spare filter mats should be used.

Each time the tubes are replaced, check the heat exchangers of the air-conditioning unit inside the system for signs of dirt (see 4.11). Dirty heat exchangers considerably reduce the capacity of the air-conditioning unit. Vacuum-clean the heat exchangers if necessary.

---

**Filter mats in the canopy** Reach underneath the filter mat at one end of the grip edge and pull the mat out. Push the new filter mat under the grip edge over the whole of its length.

---



Fig. 3.12 Replacing the filter mat

**Filter mats in the base section** The filter mats in the lower front area can be accessed freely and removed easily.

---

#### 4.8 Canopy drive{ XE "Canopy drive" }

**Maintenance** In order to ensure the trouble-free operation of the canopy drive, check and service the spring ropes each time the tubes are replaced.

---

Step	Procedure	Reference
1	The base part has to be opened	see 3.2
2	Apply the wrench on the square bolt located in the middle of the lower front pane	
3	Turn the wrench in anti-clockwise direction until the bed surface is unlocked. This will cause the bed to rise slightly.	
4	Tilt the bed surface upwards as far as possible.	
5	Check the ropes for wear. Should individual wires of the ropes be spliced replace both ropes (KBL spare part set 51000015).	
6	Grease the ropes in the area of the guide pulleys in the base frame as well as the eccentric disks in the canopy section with rope grease HHS 2000* (KBL spare part No. 12000241).	* belongs to the rope spare part set 51000015



Fig. 3.13 Bed slightly raised



Fig. 3.14 Bed halfway lifted

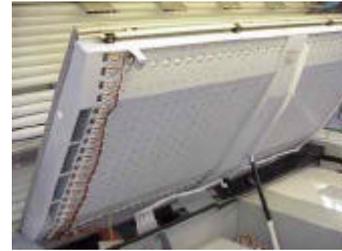


Fig. 3.15 Bed completely lifted

**Retighten the springs**

If the canopy does not remain properly in the upper position any more, you can now evenly retighten the two springs. To do so, a SW19 wrench is required.

**Close the base**

To close the base part again, push the bed surface downwards. Turn the wrench in the centre of the lower front panel as far as possible in clockwise direction. The base frame is then attached to the base part and firmly locked again.

**4.9 Connection hoses between canopy and base frame**

**Maintenance**

The connection hoses are to be subjected to a visual inspection each time the tubes are replaced. Defective hoses must be replaced.

**4.10 Exhaust air{ XE "Exhaust air" }**

**Maintenance**

A clean exhaust air system in good working order prevents the unit from overheating.

Step	Procedure	Reference
1	Open the base part (see 4.8) and check the following points regularly:	
2	The exhaust air hoses must not be kinked and must extract the air properly.	
3	The filter mats must be clean.	
4	The maximum hose length of 6 m must not be exceeded if there is no additional fan	
5	Adequate ventilation and air extraction must be ensured at all times.	

---

#### 4.11 Air-conditioning unit{ XE "Air-conditioning unit" }

**Maintenance** Check the heat exchangers of the air-conditioning unit for signs of dirt each time the tubes are replaced. Dirty heat exchangers reduce the capacity of the air-conditioning unit.  
Open the base part (see 4.8) and vacuum-clean the heat exchangers if necessary

---

#### 4.12 Condensate pump{ XE "Condensate pump" }

**Maintenance** The function of the condensate pump is to be checked each time a tube is replaced.  
Open the base part (see 4.8) and slowly fill the tank in the air-conditioning unit with water.  
Ensure that the water is pumped out when the tank is around half full. The mains voltage must be connected for this test.  
**By servicing the tanning unit regularly and properly you can make a valuable contribution to ensuring that it satisfies you for a long period of trouble-free operation.**  
**If, however, the unit does suffer from minor problems, their causes and how to eliminate them are described in section 5.**

---

---

## 5 Possible errors{ XE "Possible errors" } and their elimination

### 5.1 Error messages as run displays

Error message{ XE "Error message" }	Elimination
Air-flow switch	Check exhaust air system <ul style="list-style-type: none"><li>• Clean or replace dust filter</li><li>• Free exhaust air hoses from kinks or blockages</li><li>• Check hose length (max. 6 m without additional fan)</li><li>• Check additional fan</li><li>• Ensure sufficient supply air</li><li>• Check connection hoses canopy – base frame</li></ul> Check exhaust air fan with operational units <ul style="list-style-type: none"><li>• Exhaust air fan</li><li>• Capacitor of fan motor</li><li>• Air-flow switch</li><li>• Non-return valve</li></ul>

After the fault causing the error message has been corrected, clear the display by touching the sensor field "Stop" for at least 3 seconds.

---

## 5.2 Other possible errors

Error	Possible cause
Unit will not work	<ul style="list-style-type: none"> <li>• No voltage supply</li> <li>• Error message on run display (section 5.1)</li> <li>• No release signal from the coin-box system Check coin-box system (simulate release)</li> <li>• No control voltage Control fuse defective</li> </ul>
One or more tubes do not work	<ul style="list-style-type: none"> <li>• Starter defective</li> <li>• Tube not correctly positioned in the socket</li> <li>• Tube defective</li> <li>• Plug connector not fixed correctly</li> </ul> <p>Only for units equipped with CPI system:</p> <ul style="list-style-type: none"> <li>• Electronic ballast defective</li> <li>• Phase failure at the ballasts</li> <li>• Socket at CPI control outlet defective</li> <li>• Control cable defective</li> <li>• CPI control defective</li> </ul>
Facial tanner does not work	<ul style="list-style-type: none"> <li>• Burner not correctly positioned in the socket</li> <li>• Burner defective</li> <li>• Ballast defective</li> <li>• Plug connector not fixed correctly</li> <li>• Pane protective switch released</li> </ul>
Interior and bed surface too hot	<ul style="list-style-type: none"> <li>• Exhaust air system not working</li> <li>• Air-conditioning unit not switched on</li> <li>• Air-conditioning temperature sensor too close to heat exchanger</li> <li>• Air-conditioning heat exchanger defective</li> <li>• Air-conditioning unit defective</li> </ul>

If you continue to have problems with your tanning system, contact your local KBL service partner.

Please send orders for consumption materials and wear parts to your KBL service partner, quoting the article number to ensure that you receive the correct spare parts promptly and safely.

We will be pleased to help you if you have any questions.

---

## 6 KBL tanning systems in harmony with the environment{ XE "environment" }

In accordance with the directives of regulation No. 1836/93 (EEC) of the Commission of 29<sup>th</sup> June 1993, we have set up an efficient environmental management system which was validated by an approved environmental expert in December 1996.



It is therefore our responsibility to inform you of the following points of environmental relevance. We kindly ask you to observe the information given and thus make your own active

contribution towards environmental protection.

Should you have any questions, please do not hesitate to contact us under the phone number +49-2689-942621. We should be pleased to assist you in any way.

---

### 6.1 Fluorescent tubes and burners

**Special waste** Fluorescent tubes and burners are classified as special waste and must be disposed of separately to normal domestic waste (even if broken). You can contact either your local waste disposal company, or you can commission us with disposal, which we will be pleased to undertake for you in a proper manner.

---

### 6.2 Air-conditioning unit

**Repair** We can repair faulty air-conditioning units from our tanning systems in a professional manner, or we can properly dispose of the units. According to the CFC halon prohibitive regulation, the air-conditioning unit does not contain any CFC but a refrigerant with the designation R410a (carbohydrate compound w. fluorine). It does not damage the ozone layer and it is non-flammable. However, please observe the following safety information: Do not inhale vapours. If vapours are inhaled, the person should be made to breathe in fresh air and, if unconscious, placed in recovery position. Discharging refrigerant can cause frostbite. In case of contact with skin, rinse immediately with plenty of water.

---

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### 6.3 "megaClean{ XE "megaClean" }" fast disinfectant cleaner

#### Application

When handled properly, there is no risk when using megaClean. However, it may be dangerous to health if it is swallowed or inhaled. megaClen should be diluted with water 1 :13

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### 6.4 Used KBL tanning systems{ XE "Recycling" }



At the end of their life cycle, we naturally take back our tanning systems for disposal purposes. The type and nature of the materials used for the manufacture of our tanning systems enable easy disposal. If disposal should take place through us, we can provide relevant verification of disposal.

---

## 7 Tanning instructions{ XE "Tanning instructions:general" }

### 7.1 General Tanning Instruction

	Rules
1	<p>The various skin types can tolerate the sun and therefore tanning times to different extents. Use the skin type table and the specified tanning program as a guide.</p> <p><b>Once you have reached your final tan, further tanning can only be achieved by considerably exceeding the tanning times. This is to be avoided at all costs!!</b></p>
2	<p>UV radiation can cause skin or eye damage. These effects are dependent on the type and the amount of radiation and also on the skin sensitivity of the individual.</p>
	<p>The skin may show indications of sunburn after excessive tanning. Excessively frequent exposure to UV radiation may lead to premature ageing of the skin and to an increased risk of skin tumours</p>
	<p>The unprotected eye may suffer inflammation on the surface, and in certain circumstances excessive tanning may damage the retina. After a large number of repeated tanning sessions, grey cataracts may form.</p>
	<p>In cases where the individual is particularly sensitive to UV tanning in conjunction with cosmetics or medicaments, special caution is recommended.</p>
	<p>It is not to be taken as a general fact that exposure to UV radiation in tanning systems reduces the risk of suffering sunburn in any individual case.</p>
	<p>The unit must not be used if one or more filter panes are defective.</p>
	<p><b>The following safety precautions must be taken:</b></p> <ul style="list-style-type: none"> <li>• <b>Always use the goggles provided.</b></li> <li>• <b>Remove cosmetics before your session and do not use any type of sunscreen.</b></li> <li>• <b>Do not use the unit if you are on a course of medicaments, which increase the sensitivity of your skin. If you are in doubt consult your doctor.</b></li> <li>• <b>After your first tanning session, wait for at least 48 hours before taking the second one. Do not sunbathe in addition to your session on the same day.</b></li> <li>• <b>Observe the recommendations for tanning times and tanning intervals.</b></li> <li>• <b>Consult your doctor if you suffer persistent swelling, soreness or if pigmented areas or liver spots appear on your skin.</b></li> </ul>
	<p>People belonging to one of the following groups must not use this tanning unit:</p> <ul style="list-style-type: none"> <li>• Children</li> <li>• Individuals with heart pacemakers</li> <li>• Individuals that, when exposed to the sun, get sunburnt without any tanning effect</li> <li>• Individuals suffering from acute sunburn</li> <li>• Individuals suffering from skin cancer or with a predisposition for this disease</li> </ul>

## 7.2 Specific Tanning Instruction Super and Super CPI, UV-Type 4

99090902

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	6	6	6
2	7	7	7
3	7	8	9
4	8	10	11
5	9	11	13
6	9	12	15
7	10	13	17
8	11	15	18
9	12	16	20
10	13	17	22
11	13	19	24
12	14	20	26

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
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## 7.3 Specific Tanning Instruction Super und Super CPI, UV-Type 3

00041204

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	6	6	6
2	7	7	8
3	8	9	10
4	8	10	11
5	9	11	14
6	10	13	16
7	11	14	18
8	11	16	19
9	12	17	21
10	13	18	23
11	14	20	25
12	15	21	27

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.4 Specific Tanning Instruction Super Power CPI, UV-Type 4

00041801

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	4	4	4
2	4	5	5
3	5	6	6
4	5	6	7
5	6	7	9
6	6	8	10
7	7	9	11
8	7	10	12
9	8	11	13
10	8	12	15
11	9	13	16
12	10	13	17

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.5 Specific Tanning Instruction Super Power, UV-Type 4

00020301

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	3	3	3
2	4	4	4
3	4	5	5
4	5	6	6
5	5	6	8
6	6	7	9
7	6	8	10
8	6	9	11
9	7	10	12
10	8	10	13
11	8	11	14
12	9	12	15

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.6 Specific Tanning Instruction Super Power CPI, UV-Type 3

00042701

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	6	6	6
2	7	8	8
3	8	9	10
4	9	10	12
5	9	12	14
6	10	13	16
7	11	14	18
8	12	16	20
9	13	17	21
10	13	19	23
11	14	20	26
12	15	21	28

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.7 Specific Tanning Instruction Ultra Power CPI, UV-Type 4

00041801

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	4	4	4
2	4	5	5
3	5	6	6
4	5	6	7
5	6	7	9
6	6	8	10
7	7	9	11
8	7	10	12
9	8	11	13
10	8	12	15
11	9	13	16
12	10	13	17

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.8 Specific Tanning Instruction Ultra Power, UV-Type 4

00020301

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	3	3	3
2	4	4	4
3	4	5	5
4	5	6	6
5	5	6	8
6	5	7	9
7	6	8	10
8	6	9	11
9	7	9	12
10	7	10	13
11	8	11	14
12	8	12	15

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.9 Specific Tanning Instruction Ultra Power and up CPI, UV-Type 3

00100401 RA+

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	7	7	7
2	8	8	9
3	8	10	11
4	9	11	13
5	10	13	15
6	11	14	17
7	12	16	19
8	13	17	21
9	14	19	23
10	15	20	25
11	15	22	28
12	16	23	30

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.10 Specific Tanning Instruction XXL Super Power CPI, UV-Type 4

99091701/02

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	5	5	5
2	6	6	6
3	6	7	8
4	7	8	9
5	7	9	11
6	8	10	13
7	8	11	14
8	9	12	15
9	10	14	17
10	11	15	18
11	11	16	20
12	12	17	22

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

## 7.11 Specific Tanning Instruction XXL Ultra Power CPI, UV-Type 4

99091701/02

Tanning session	Skin type II	Skin type III	Skin type V
	Time in min		
1	5	5	5
2	6	6	6
3	6	7	8
4	7	8	9
5	7	9	11
6	8	10	13
7	8	11	14
8	9	12	15
9	10	14	17
10	11	15	18
11	11	16	20
12	12	17	22

The time between two tanning sessions must be greater or equal than 48 hours.

Max. No. of sessions per year @ 15 kJ/m <sup>2</sup>	60	43	33
--	----	----	----

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## 8 Technical Data{ XE "Technical Data" }

### 8.1 Data valid for all tanning systems

There must be a permanent notice plate in the cabin near the unit with the following wording:

**Warning:**

**UV radiation may cause eye and skin damage. Ask the staff for further details. Wear goggles. Certain medicaments or cosmetics may increase sensitivity (UV - type of unit).**

#### Environment

Installation rooms	The unit is suitable for installation in dry rooms. Adequate ventilation must be provided at all times.
Relative humidity	<70%
Room temperature	<30°CPI
<b>Attention!</b>	The unit must not be used if the coin-operated system or the internal monitoring of the maximum tanning time is defective, or in case a filter pane is defective or missing.

#### Condensate

Outlet	At the left of the back
	Either be disposed of through a waste water connection or a canister with a minimum capacity of 5 litres
Quantity	The quantity generated depends upon the installation site and the air humidity.
Hint	The power supply should not be switched off even after the tanning session is complete.

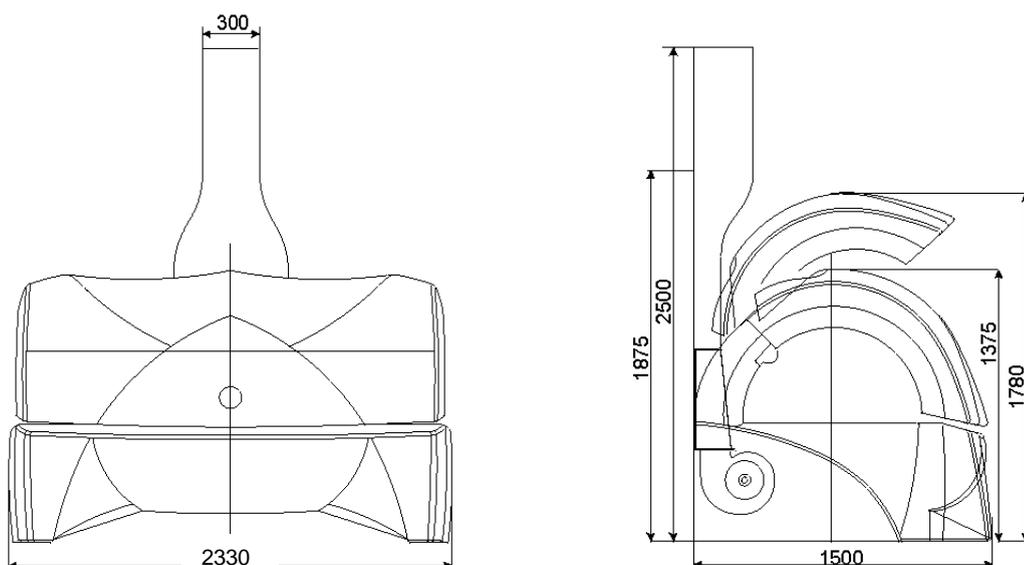
#### Electrical connection

Branch box	140mm x 120mm x 70mm with a PG 21
Mains voltage	400V / 3N / 50Hz
Circuit breaker	The supply cable to the connection box must be secured with a 3-pole miniature circuit breaker. The connection is also to be secured by a residual current-operated circuit breaker.
Fuses	see specific data
Cable diameter	
Amps	
Internal plug socket	The internal plug socket may be used for supplying a PC, a lamp or similar devices. It must not be used for connecting welding equipment, angle grinders and the like.

---

## Dimensions

Length * Width * Height	(2330 * 1500 * 1780 (opened)) mm <sup>3</sup>
Mass (w. air cond.)	Inductive: 700 kg ( 750 kg); CPI: 590 kg (640 kg)
Waste air hose	Height max. 2500 mm may be cut up to h <sub>min</sub> Height min. 1875 mm Diameter 300 mm



## 8.2 Super / Super CPI, UV Type 3 and 4

<b>Waste air</b>	about 2300 m <sup>3</sup> /h
<b>Air velocity</b>	about 10 m/sec
<b>Facial burners</b>	<b>KBL 32303200</b>
Number / Rating	4 / 500 W (400 W for UV Type 3)
<b>Filter panes</b>	<b>KBL 30200170</b>
<b>Tubes</b>	Pcs. / Type
Canopy	25 / MegaSun Super R 100 W
Side	7 / MegaSun Super R 100 W
Base	22 / MegaSun Super R 100 W
<b>Rated capacity</b>	9400 W (10600 W with air cond.)
<b>Connection lead</b>	5x 4 mm <sup>2</sup> Ölflex
<b>Fuses</b>	Miniature circuit breaker, 3x 25 A, with residual current-operated circuit breaker

### 8.3 Super Power / Super Power CPI, UV Type 4

Super Power		Super Power CPI
Waste air	about 2300 m <sup>3</sup> /h	
Air velocity	about 10 m/sec	
Facial burners	KBL 32303200	
Number / Rating	4 / 600 W	
Filter panes	KBL 30200170	
<b>Tubes</b>	pcs. / type	pcs. / type
Canopy	25 / MegaSun Super R 160 W	25 / megaSun Ultra Power Longlife R 160 W
Side	7 / MegaSun Super R 160 W	7 / megaSun Ultra Power Longlife R 160 W
Base	22 / MegaSun Super R 100 W	22 / MegaSun Super R 100 W
<b>Rated capacity</b>	12000 W (13200 W with air cond.)	
<b>Connection lead</b>	5x 6 mm <sup>2</sup> Ölflex	
<b>Fuses</b>	Miniature circuit breaker, 3x with residual current-operated 32 A, circuit breaker	

### 8.4 Ultra Power / Ultra Power CPI, UV Type 4

Ultra Power		Ultra Power CPI
Waste air	about 2300 m <sup>3</sup> /h	
Air velocity	about 10 m/sec	
Facial burners	KBL 32303200	
Number x Rating	4x 600W	
Filter panes	KBL 30200170	
<b>Tubes</b>	pcs. / type	pcs. / type
Canopy	25 / megaSun Super R 160 W	25 / megaSun Ultra Power Longlife R 160 W
Side	7 / megaSun Super R 160 W	7 / megaSun Ultra Power Longlife R 160 W
Base	22 / megaSun Super R 160 W	22 / megaSun Ultra Power Longlife R 160 W
<b>Rated capacity</b>	13600 W (14800 W with air cond.)	
<b>Connection lead</b>	5x 6 mm <sup>2</sup> Ölflex	
<b>Fuses</b>	Miniature circuit breaker, 3x 32 A, with residual current-operated circuit breaker	

## 8.5 XXL Super Power / XXL Super Power CPI, UV Type 4

XXL Super Power		XXL Super Power CPI
Waste air	about 2300 m <sup>3</sup> /h	
Air velocity	about 10 m/sec	
<b>Tubes</b>	pcs. / type	pcs. / type
Canopy	25 / Lighttech Combi R–UVA 180 W XLc intensive 4	Lighttech Combi R – UVA – 180 W XLc high intensive
Side	7 / Lighttech Combi R–UVA 180 W XLc intensive 4	Lighttech Combi R – UVA – 180 W XLc high intensive
Base	22 / megaSun Super R 100 W	22 / megaSun Super R 100 W
<b>Rated capacity</b>	8300 W (9300 W with aircond.)	
<b>Connection lead</b>	5x 4 mm <sup>2</sup> Ölflex	
<b>Fuses</b>	Miniature circuit breaker, 3x 25 A, with residual current-operated circuit breaker	

## 8.6 XXL Ultra Power / XXL Ultra Power CPI, UV Type 4

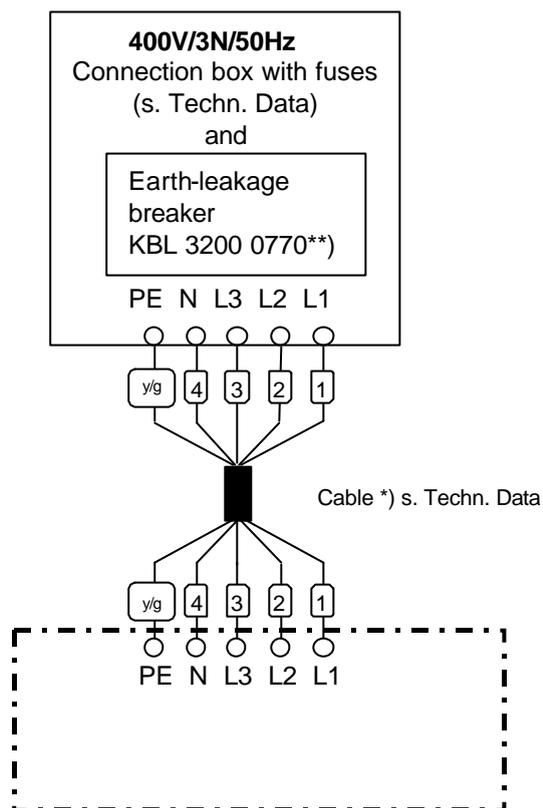
XXL Ultra Power		XXL Ultra Power CPI
Waste air	about 2300 m <sup>3</sup> /h	
Air velocity	about 10 m/sec	
<b>Tubes</b>	pcs. / type	pcs. / type
Canopy	25 / Lighttech Combi R–UVA 180 W XLc intensive 4	25 / Lighttech Combi R–UVA 180 W XLc high intensive
Side	7 / Lighttech Combi R–UVA 180 W XLc intensive 4	7 / Lighttech Combi R–UVA 180 W XLc high intensive
Base	22 / megaSun Super R 160 W	22 / megaSun Ultra Power Longlife R 160 W
<b>Rated capacity</b>	11200 W (12400 W with aircond.)	
<b>Connection lead</b>	5x 6 mm <sup>2</sup> Ölflex	
<b>Fuses</b>	Miniature circuit breaker, 3x 32 A, with residual current-operated circuit breaker	

---

## 9 Connection Diagrams

### 9.1 Power supply

**Fuses and Earth-leakage breaker** The tanning system should be connected at the 400-V supply using fuses (see Technical Data). An earth-leakage breaker is essential. KBL Solarien AG recommends the type: KBL 3200 0770.



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\*)\*\*) Supplied by KBL

## 9.2 Audio signal

### Music amplifier

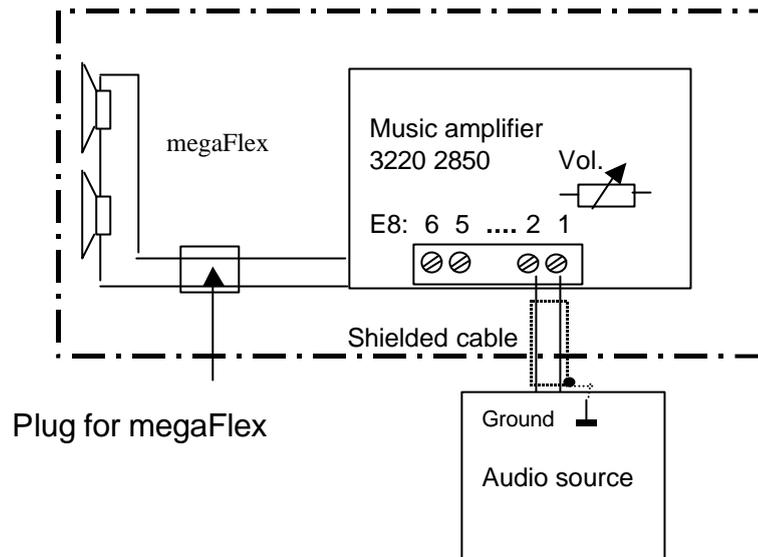
32202850



Terminal E8

To connect the audio signal at the music amplifier use 2-wires shielded cable. The shield is connected at Ground of the signal source, only

Connection points at the music amplifier are the terminal E8:1 and E8:2.

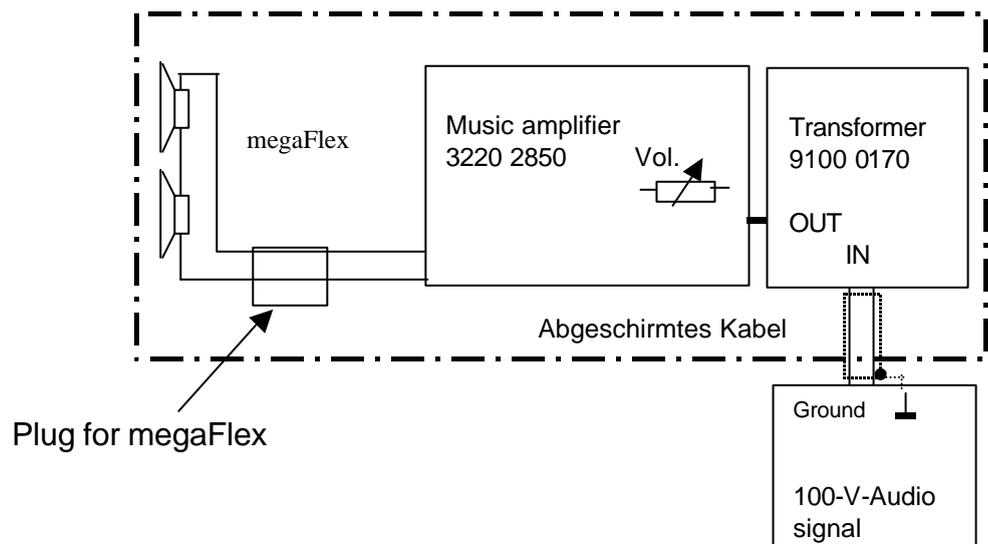


### 100-V-Audio signal

Transformer  
KBL 91000170

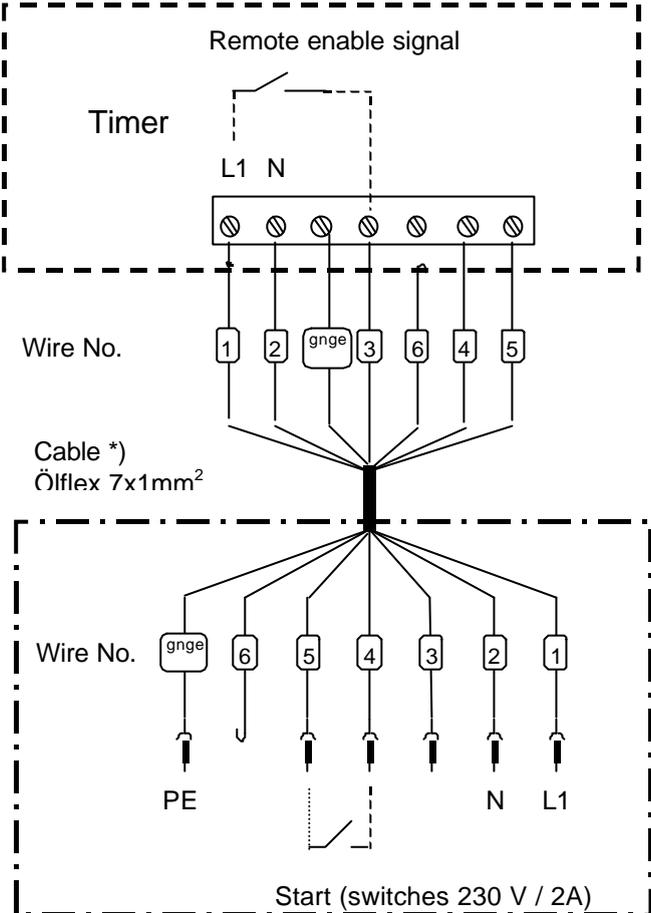


For this application you need a transformer KBL 91000170. The audio signal is connected at the terminal "IN". Shielded cable see above.



9.3 Timer

**Timer connection** The next figure shows the connection principle of a timer. Note please the individual prescriptions and connection schemas for each timer.



\*) Supplied by KBL

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