

UltraSun

a little bit of paradise

owners manual



SW03-180601-EU.doc

English

Deutsch
Nederlands
Français

Owners Manual

Bedienungsanleitung
Gebruikershandleiding
Mode d'emploi

(Page

(Seite
(Pagina
(Page

1...18)

19...36)
37...54)
55...72)

5000/19x25 XXL
5000/4x500 highpower
5000/4x1000 magnum

solarwind
5000

WARNING

- Read instructions before using this product or consult the attendant for further information.
- The power supply must be fused with a time-lag fuse.
- The supply voltage must agree with the voltage given on the machine type-plate.
- Before servicing this equipment or changing lamps, remove the power supply cord or isolate from main supply.
- This equipment must have an earth connection.
- Never use this machine when the flexible ducts are not connected.
- Never use this machine when the timer is faulty.
- Never use this machine when one of the filters of the facial(s) is broken or removed. You must check this before use. When during use one of the filter(s) breaks, stop this machine immediately.
- This device is intended to be used by one person at a time!
- This machine may not be operated if the temperature inside the tanningcabin is 30° C or higher.
- This machine is not to be used by persons burning without tanning when exposed to the sun, by persons suffering from sunburn, by children under the age of 16, or by persons suffering from or previously suffering from skin cancer or predisposed to skin cancer.
- Always use the protective sunglasses provided.
- Remove cosmetics well in advance of exposure and do not apply any sunscreens.
- Do not undergo exposure when taking medicines or using cosmetics, which increase sensitivity to ultraviolet radiation. If in doubt, take medical advice.
- Allow at least 48 hours between the first two exposures.
- Do not sunbathe and use the machine on the same day.
- Follow the recommendations concerning exposure duration and exposure intervals
- Seek medical advice if persistent lumps, sores or pigmented moles develop on the skin.
- For the replacement of lamps, filters etc. use only the identical parts.
- Ultra-Violet radiation from the sun or UV-machines can cause injury to skin or eyes. These biological effects depend upon the quality and the quantity of the radiation as well as the skin sensitivity of the individual.
- The skin may develop sunburn after an excessive exposure. Excessively repeated exposure to ultraviolet radiation from the sun or the machine may lead to premature ageing of the skin as well as increased risk of development of skin tumours.
- The unprotected eye may develop surface inflammation, and in some cases, after a cataract operation for example, damage may occur to the retina after excessive exposure. Cataracts may develop after many repeated exposures.

C O N T E N T S

- **Warning**
- **Contents & Introduction**
- **Assembly of the sunbed**
- **US Timer Lumax 4.0**
- **Connections for Distance Control**
- **Tanning Instructions**
- **Changing Lamps and Bulbs**
- **Trouble shooting / Maintenance**
- **Technical Information**
- **Drawings**

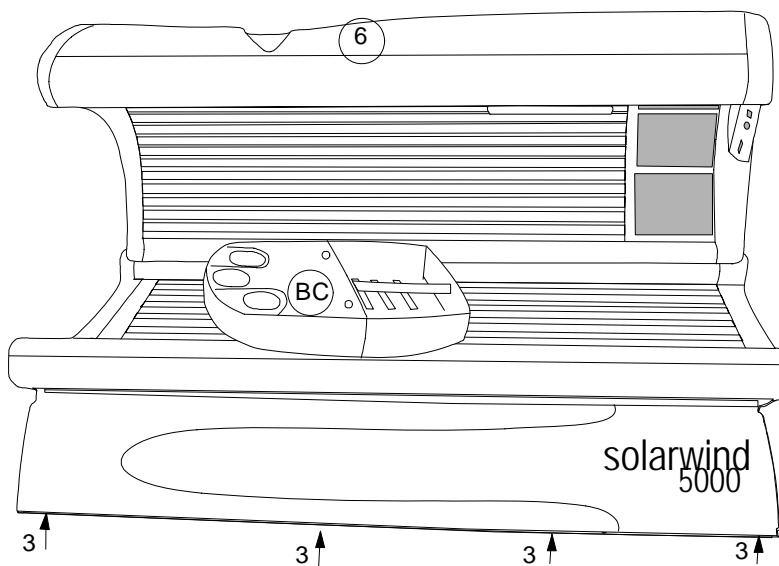
You have just chosen for a product from the **ULTRASUN INTERNATIONAL** tanning range;

A VERY GOOD CHOICE

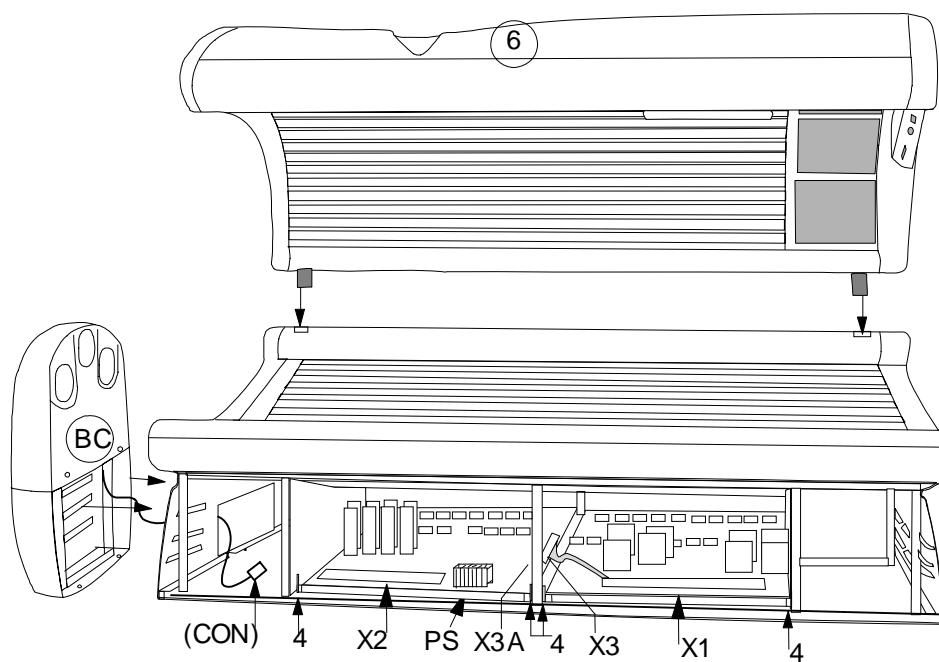
During the development of our professional tanning systems we have taken into account the demands and requirements from our customers.

This manual is meant to help you as far as possible. Should you have any questions, suggestions in relation to our products, please do not hesitate to let us know.

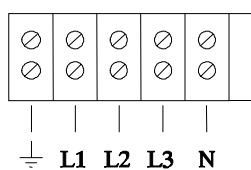
ASSEMBLY OF THE SUNBED



Drawing A



Drawing B



Drawing C : Power Supply (PS)

(DIS)ASSEMBLY OF THE SUNBED

The sunbed is pre-build. See Drawing A. For completing the sunbed install the Bodycooler and secure the roof/bed pipes. For easy transport of the sunbed to its location it can be disassembled as follows:

Be sure the Power Supply is not connected.

- Remove the front plate (1) from the base by removing the 4 screws (3,9x13). (see drawing A:3)
- Disconnect the plugs X1, X2 and X3 and the power supply cable (PS). (see drawing B)
- Unscrew the RED transit screws (M3,9x19) and remove the trays. (see drawing B:4)

Unscrew the metal plate, attached to the roof cable at the back of the base. Take out the roof cable and plug (X1) through the square hole at the back of the base.

Open the roof to its maximum position. You can now lift of the roof with four persons. (At each corner). Only lift up the roof, gripping the large aluminium profile parts. **Do not** lift up the roof by the plastic side parts. They can get damaged.

Now you can begin to assemble the bed:

First place the base of the bed in the required position. Lift up the front side of the roof with 4 persons, so that the 2 pipes of the roof slide into the 2 pipes of the bed. (See drawing B.) Make sure that the pipes of the roof don't slide out of the bed pipes.

Attention: You must secure the pipes of the roof/bed with the 2 inbus bolts provided. At the backside of the base, right below each pipe, is a little hole where you can secure the inbus bolts in the pipes. Place an inbus bolt on an inbus key (not provided), slide the key in an 30° angle in the hole and tighten the inbus bolt. Repeat this with the second inbus bolt at the other pipe.

Move the ballast trays back into the base of the bed, secure with RED screws. Connect the power supply cable, as shown in drawing C. Reconnect plugs X1, X2 and X3.

Place the Bodycooler (BC) onto the sunbed. Connect the plug/cable from the Bodycooler onto the contra plug in the R1 compartment. Fasten the Bodycooler with two screws provided onto the bed. (First remove the bed acrylic. See chapter "Changing Lamps and Facial Bulbs").

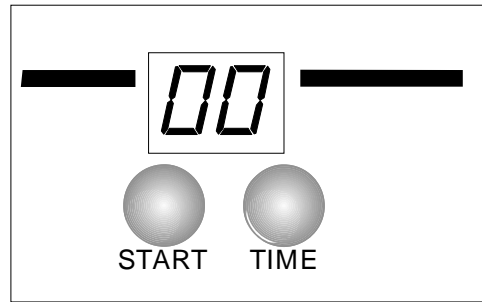
Replace the acrylic and the front cover plate onto the base. Connect the included flexible ducts to the air outlets from the bed and roof (tube Ø 200mm). Make sure the outlets are NOT obstructed and that there is enough fresh air input.

The bed is now ready to use.

The position of the roof, when in its up or down, is pre-set at fixed levels. However, adjusting the lock nuts on the rubber stop caps (Area R1 & R2 in drawing B) can change this. The tension of the roof movement can be adjusted by loosening or tightening the eyelet bolts on the springs (Area R1 & R2 in drawing B).

- ♦ At the back of your sunbed you will find a connection for the distance control. DO NOT USE THIS CONNECTION FOR OTHER PURPOSES!

MULTI FUNCTIONAL TIMER FOR TANNING EQUIPMENT



INTRODUCTION

The UltraSun *Timer* is based on a microprocessor, which guarantees perfect function of your sunbed. The Timer is provided with a standard program controlled at the Control Panel. The Control Panel has a two-digit display together with two buttons (see drawing above). The *Timer* can easily be reprogrammed should the standard program require alteration.

STANDARD CONTROL FUNCTIONS

The buttons on the Control Panel denote the following functions.

START - Turns the sunbed on for pre-set time lapse
TIME* - Reduces the time lapse

* These buttons have an automatic repeat function.



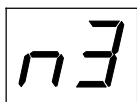
Stand-by

The two-digit display shows the status of the sunbed. Stand-by defaults to 00 when not in use. When START is selected the pre-set time is indicated i.e. 20 (min.) and the sunbed is operational.



In Use

The Timer is pre-set to the standard default setting of 20 (Highpower) or 15 minutes (XXL & Magnum). During use of the sunbed the current time will be displayed indicating number of minutes remaining as the *Timer* automatically decreases the time lapse. A buzzer will sound when the session has only 10 seconds left to run.



Overrun

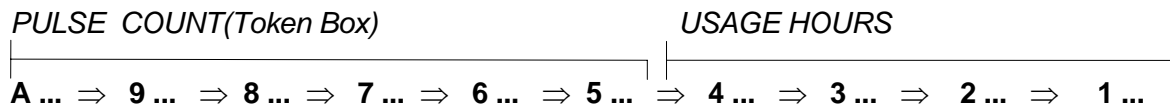
When the sunbed automatically switches itself off the fans will Over- run for three minutes. This is marked on the display with "n".

This is to allow the bed to cool down and the fans stop, the *Timer* will display the "00" defaulting to Stand-by, ready for the next session.

PLEASE NOTE: The timer will automatically revert to the Overrun position if there is any interruption to the power supply during In Use or aftercooling (=Overrun).

READING PULSE COUNT AND SUNBED USAGE HOURS

During the Stand-by position the Pulse Count (Token Box) and Sunbed Usage Hours can be quickly read. Push the TIME button for at least five seconds. The display will show automatically the Pulse Count and Usage Hours in following order:



The 2nd number next to the A is the number of hundredthousands f.e. **A1**

The 2nd number next to the 9 is the number of tenthousands

The 2nd number next to the 8 is the number of thousands

The 2nd number next to the 7 is the number of hundreds

The 2nd number next to the 6 is the number of tens

The 2nd number next to the 5 is the number of units

Total Pulse Count (= 101689 Pulses)

1 0 1 6 8 9 Pulses

The 2nd number next to the 4 is the number of thousands f.e. **40**

The 2nd number next to the 3 is the number of hundreds

The 2nd number next to the 2 is the number of tens

The 2nd number next to the 1 is the number of units

Total Usage Hours (= 0569 Hours)

0 5 6 9 Hours

CHECKING/READING/ADJUSTMENT OF THE DATA PARAMETERS

Whilst in the Stand-by position, the parameters can be read and/or altered. The set-up is called 'parameters' and is indicated in the display with the letter P. In the following chapter we detail the methods to use to program the data parameters. To **gain entry** to the data parameter program, press the following key combinations:

- **Press the TIME button and simultaneously press five times the START button.**

PLEASE NOTE: The time available to carry out above actions to gain entry is 5 SECONDS. Otherwise you will entry the Sunbed Usage Hours program. See chapter above.

At this point P1 (parameter 1) appears on the two-digit display. By pressing the TIME button the parameters P1 up to P9 can be selected. To read the value of the parameter appearing on the two digit display press the START button. To change the value press again the START button. Now this button has an automatic repeat function, by pressing the button continuously.

When you have read/changed the parameter-value, press the TIME button again to return to the P1 to P9 parameter-menu and you can then proceed to read/change the next parameter. The new value(s) will be programmed directly into the memory of the *Timer*.

You will automatically **leave/exit** the parameters program, if you don't press a button for 15 seconds long in the parameter-menu (P1 up to P9).

PARAMETERS

<u>Parameter</u>	<u>Description</u>	<u>Selection</u>
P1 :	Exposure Time	00 – 60 minutes
P2 :	Users Mode	00 : Normal Use; Start with START button 01 : Remote Control (external timer/switch) 02 : Token Boxes (Coin Control)
P3 :	Freeze interruption Cooling Down Period (=Overrun Period)	00 : Not freezed 01 : Freezed
P4 :	Cooling Down Time	00 – 09 minutes
P5 :	Pre-run Time	00 – 09 minutes
P6 :	Time per Token	00 – 60 minutes (Only in Parameter mode P2-02)
P7 :	Minimum Token Insert	01 – 10 coins (Only in Parameter mode P2-02)
P8 :	End signal	00 – 60 seconds
P9 :	Turn Around Signal	00 = Off; 01 = On

Parameter P1

Time adjustment for the maximum Exposure Time. This is for all Users Modes.

Parameter P2

Adjusting Users Mode; The Users Mode is adjustable from 00 up to 02.

- Parameter P2 - 00

Adjustment for Normal Use; Start by pushing the START button. 10 Seconds before ending the tanning period a buzzer will signal.

- Parameter P2 - 01

Adjustment for Distance Control (external timer/switch) The sunbed will start by closing a potential free switch. This can be a switch or timer on distance. After the Pre-run Time, if programmed, the time will be indicated on the display, adding up, starting from 00. While disconnecting the contact by remote control the sunbed will stop and the Cooling Down (Overrun) will start to run.

When the pre-set time of the switch or remote control Timer is longer than the maximum Exposure Time P1 of the UltraSun *Timer*, then the UltraSun *Timer* will stop if the Exposure Time P1 has been reached. For connecting examples see chapter "Connecting Remote Control". The buzzer for the last 10 seconds only functions when the maximum Exposure Time P1 has been reached.

- Parameter P2 - 02

Adjustment for Token Boxes (Coin Control); The sunbed starts by means of a potential-free pulse contact of the coinfeeler in the token system. Depending on the Time per Token P6, it is possible to insert tokens into the token box until reaching Exposure Time P1.

PLEASE NOTE: If Pre-run Time P5 is programmed, the display will show invariably the Pre-run Time (indicated by *u*) and the tanning time. It is not recognisable that the Exposure Time P1 has been reached. 10 Seconds before ending the tanning period a buzzer will signal.

Do not insert any tokens while the bed is in use and during the Cooling Down period (if parameter is set on P3-01). For examples in connecting, see chapter "Connecting Remote Control".

Parameter P3

Adjustment for the Freeze interruption Cooling Down Period (Overrun Period); This function allows you to freeze or not to freeze the interruption of the Cooling Down Period. So therefore it is or isn't possible to start the Sunbed directly during the After Cooling Period. Standard this parameter is programmed with P3-01.

- Parameter P3 - 00

Adjustment for Not Freezed; In this mode it is possible to start the sunbed again during the After Cooling Period:

- Normal Use with the START button
- Remote Control with the external switch
- Token Boxes by inserting a token

If the Pre-run time is set, the timer first will start with the Pre-run time. In this case the ventilation doesn't stop during the Pre-run time.

- Parameter P3 - 01

Adjustment for Freezed; In this mode it is not possible to start the sunbed again during the After Cooling Period. Only back into the Stand-by situation it is possible to start again.

Parameter P4

Adjustment of the Cooling Down Time; After the Exposure Time is finished, the Cooling Down Time will commence and indicated on the display with an **n**. The standard time of the Cooling Down Time is 3 minutes.

Parameter P5

Adjustment of the Pre-run Time; The Pre-run Time P5 is an adjustment of a interval before starting the sunbed. After the interval the sunbed will start automatically. On the display this is shown by a **u** and the number of minutes "pause". See drawing beside de pre-current time with 3 minutes. This Pre-run Time is programmed to a standard 0 minutes.

Further to the Pre-run Time:

- During the Pre- Time it is always possible to start the machine by pushing the START button.



Pre-run Time

Parameter P6 (Only when P2-02)

Adjustment of the Time per Token; At this point it is possible to attach a certain time bands to each token. For example this can be the maximum Exposure Time P1 or a part of that time. By inserting a token at this point a time will be assigned on the timer. When inserting the next token the time will be added to the previous time(s) used on the sunbed but the Exposure Time P1 will remain static.

PLEASE NOTE: The Time per Token will not last longer than the pre-set (programmed) Exposure Time P1.

Parameter P7 (Only when P2-02)

Adjustment of the Minimum Token Inserts. Inserting at least this amount of tokens is necessary for starting the timer/sunbed. Default setting is 01.

By inserting a token Time P6 will be assigned on the timer. See explanation Parameter P6.

More tokens can be inserted until the maximum Exposure Time P1 has been reached.

PLEASE NOTE: The Time per Token will not last longer than the pre-set (programmed)

Exposure Time P1.

Parameter P8

Adjustment of the End signal. Default setting is 10 seconds. A buzzer will sound when the session has only 10 seconds left to run. The End signal can be set from 0 seconds (=off) till 60 seconds before the session ends. The Buzzing sound is two times one second.

Parameter P9

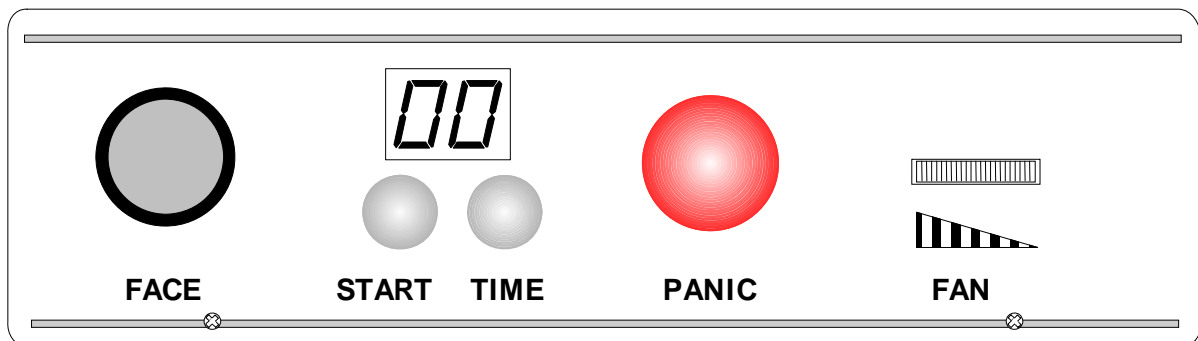
Adjustment for Turn Around signal.

P8 = 00; Turn Around signal is deactivated.

P8 = 01; Turn Around signal is activated.

- Parameter P2=00: Halfway through the Exposure Time P1, the Turn Around Signal will be heard by a buzzer (approx. 4 times one second).
- Parameter P2=01: Halfway through the Exposure Time P1, the Turn Around Signal will be heard by a buzzer (approx. 4 times one second). In case of not using the maximum Exposure Time P1 the Turn Around Signal will be heard too soon.
- Parameter P2=02: Half-way through the exposure time accomplished by tokens, limited by Exposure Time P1, the Turn Around Signal will be heard by a buzzer (approx. 4 times one second).

CONTROL PANEL



Your tanning bed has a control panel shown in above drawing. During the tanning session the Facials can be switched off/on with the FACE switch. It is recommended not to switch the Facials on during the next 90 seconds, after switching the Facials off.

During the tanning session the body cooler can be set faster or slower with the FAN switch hand wheel.

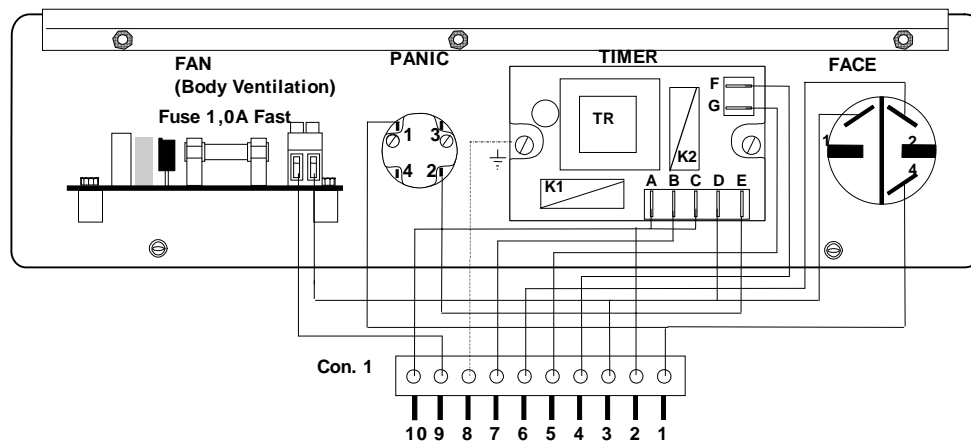
Pushing the panic button will turn off the power supply of the sunbed. **USE THIS PANIC BUTTON ONLY IN CASE OF EMERGENCY.**

Afterwards when the PANIC button will be pulled out, the sunbed will automatically begin with the Cooling Down period. (The timer will automatically revert to the Overrun position if there is any interruption to the power supply during In Use or aftercooling (=Overrun).)

CONNECTIONS OF THE TIMER/CONTROL PANEL

On the reverse of the *Control Panel* (Solarwind 5000) you will find all the connections. PLEASE TURN OFF THE POWER SUPPLY BEFORE ATTEMPTING ANY WORK ON THE CONNECTIONS.

CONTROL PANEL (REVERSE SIDE)



Connector 1 (Con. 1)

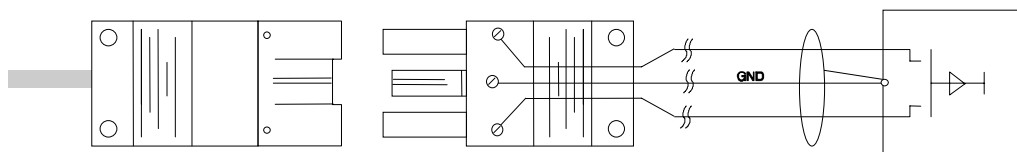
- 1) Neutral from mains
- 2) 'Life' from mains
- 3) Contactor for tubes
- 4) external pulse contact (potential free)
- 5) external pulse contact (potential free)
- 6) Contactor for facial
- 7) Fans
- 8) Potential earth
- 9) Body-cooler
- 10) Fans override

Timer US LUMAX 4.0

- A) 'Life' from mains
- B) Output for Fans
- C) + D) Pot. free connection for lamps, burners and body cooler
- E) Neutral from mains
- F) + G) Pot. free connection for remote control

CONNECTIONS FOR DISTANCE CONTROL

Only for distance control connection with potential free contacts.



At the back of your sunbed you'll find the connection for the distance control. The connections correspond to the above drawing. The coupling socket can be adapted for a control panel or Token Box. Wrong connections from the connector could damage the *Timer*.

PLEASE NOTE: The connection is only meant to control your sunbed by a token box or control panel with a potential free (normally open) switch.

TANNING INSTRUCTIONS

RECOMMENDED EXPOSURE SCHEDULE

Solarwind 5000 XXL & Solarwind 5000 Magnum

Skin Type	Week 1 1st Session	Week 1 2nd-3rd Sessions	Week 2 4th-6th Sessions	Week 3 9th-10th Sessions	Weekly Sessions Maintenance
I - Sensitive	Tanning not advised				
II - Fair	4 min.	6 min.	8 min.	9 min.	9 min.
III - Medium	4 min.	7 min.	10 min.	12 min.	12 min.
IV - Dark	4 min.	8 min.	12 min.	15 min.	15 min.

RECOMMENDED EXPOSURE SCHEDULE

Solarwind 5000 highpower

Skin Type	Week 1 1st Session	Week 1 2nd-3rd Sessions	Week 2 4th-6th Sessions	Week 3 9th-10th Sessions	Weekly Sessions Maintenance
I - Sensitive	Tanning not advised				
II - Fair	6 min.	8 min.	10 min.	12 min.	12 min.
III - Medium	6 min.	9 min.	12 min.	16 min.	16 min.
IV - Dark	6 min.	10 min.	15 min.	20 min.	20 min.

- The exposure time for first session must not be shorter than 1 minute.
- Allow at least 48 hours between the first two exposures.
- Do not sunbathe and use the machine on the same day.
- This device is intended to be used by one person at a time!
- Lie on the sunlamp bed and lower the top section to its internally regulated stop point to attain this position. Any other position may result in overexposure.
- Always use the protective sunglasses provided.
- Remove cosmetics well in advance of exposure and do not apply any sunscreens.
- Do not undergo exposure when taking medicines or using cosmetics, which increase sensitivity to ultraviolet radiation. If in doubt, take medical advice.
- Follow the recommendations concerning exposure duration and exposure intervals
- Seek medical advice if persistent lumps, sores or pigmented moles develop on the skin.
- Ultra-Violet radiation from the sun or UV-machines can cause injury to skin or eyes. These biological effects depend upon the quality and the quantity of the radiation as well as the skin sensitivity of the individual.
- The skin may develop sunburn after an excessive exposure. Excessively repeated exposure to ultraviolet radiation from the sun or the machine may lead to premature ageing of the skin as well as increased risk of development of skin tumours.
- The unprotected eye may develop surface inflammation, and in some cases, after a cataract operation for example, damage may occur to the retina after excessive exposure. Cataracts may develop after many repeated exposures. Therefore: always use the protective sunglasses provided.
- This machine is not to be used by persons burning without tanning when exposed to the sun, by persons suffering from sunburn, by children or by persons suffering from or previously suffering from skin cancer or predisposed to skin cancer.

CHANGING LAMPS AND FACIAL BULBS

When effective life of your lamps and facial bulbs is over, or when there is an obvious decrease in the tanning results, it is necessary to change the lamps and facial bulbs.

When changing lamps, first remove power supply, then remove the acrylic.

The Top:

First remove power supply. Removing Acrylic: Open the three locks with a screwdriver by rotating it 90°. Slowly lower the front side of the acrylic. You can now clean the acrylic and change the lamps.

If the acrylic is lowered down onto the base, you can remove the acrylic totally by lifting up the backside. Preferably by two persons.

The Bed:

First remove the power supply. Remove the *acrylic fastening* by lifting it up carefully at one end, so that you can slide it out. Once the fastening is off, you can simply pick up acrylic from the base, preferably by two persons.

Now switch the lamps by turning them in the lampholders; let them "click" before you remove them. When changing the lamps, also remove the dust from the machine (particular attention around the fans) and clean the acrylics from the inside.

Units with facial tanner:

When changing bulbs, first remove power supply. To change the facial bulb, remove the small facial cover from the top. The reflector with the facial bulb inside can be completely removed by turning the two screws (on both sides) out of the reflector.

At the same time the two wires of the facial bulb must be disconnected. The facial bulb can be removed out of the pinch-spring and replaced by a new one. Do not touch the glass of the facial bulb with your fingers. Remove the dust and clean the white and blue filter with a glass cleaning fluid.

Make sure that the new lamps and facial bulbs are of the same type as the previous ones.

The device is intended to be used with the following lamps:

Solarwind 5000 XXL	Solarwind 5000 highpower	Solarwind 5000 magnum
SUNFIT XXL 180W	SUNFIT RS 500W	SUNFIT RS 1000W
SUNFIT S 25W	SUNFIT RX 100W	SUNFIT VRX 160W
SUNFIT VX 160W		SUNFIT VX 160W

When servicing this machine you have to exchange components by original components for this product to be in compliance with the approved standard.

TROUBLE SHOOTING

- * When your tanning combination or part of it (top, bed or facial) doesn't function, please check:
 - the PANIC BUTTON
 - the fuses/differential switch of your main supply.
 - the connection to the main supply
 - the thermal switches (Thermal safety)
 - the connection between the top and the bed or the bodycooler
- * If one of the lamps doesn't function anymore, change it with the lamp next to it. If it still doesn't work, change the starter.
- * If your facial tanner is out of function, please check the facial switch first.
- * Switch off the power supply to the machine in case of:
 - working inside the sunbed
 - fans are out of order
 - technical failures
- * Please contact your technical service in case the problem can't be solved with the above mentioned possibilities.

MAINTENANCE

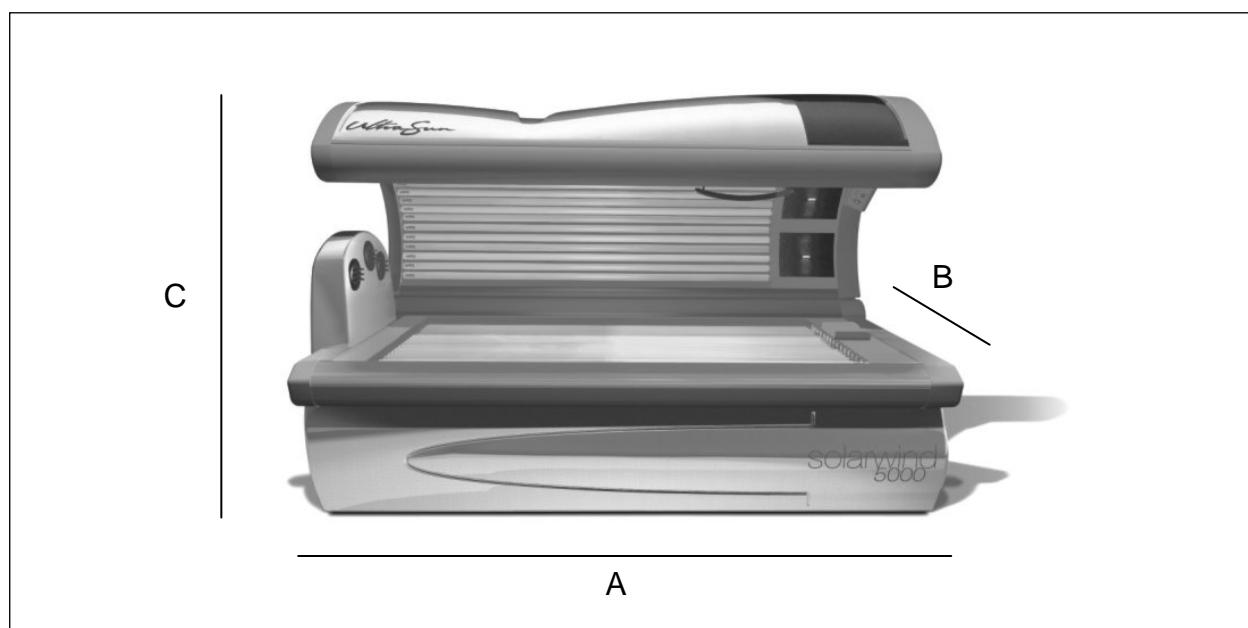
After 50 hours or at least after one month and then every 500 hours or 6 months:

- visual inspection of all parts inside
- remove dust and fluffs inside
- working of the whole machine
- control screws and nuts (if loose tighten)
- check all electrical cables and connections
- pay attention to strange noises inside

Always:

- Clean the acrylics after every tanning period.
- Consult an authorised service agent in the event of a failure with your UltraSun machine.

TECHNICAL INFORMATION



SUNBED TYPE	SOLARWIND 5000/19x25 XXL	SOLARWIND 5000/4x500 highpower	SOLARWIND 5000/4x1000 magnum
Burners/Tubes SUNFIT			
Roof: RS 1000	-	-	4
RS 500	-	4	-
XXL 180	20	-	-
VRX 160	-	-	26
RX 100	-	26	-
S 25	19	-	-
Bed: RX 100	-	19	-
VX 160	19	-	19
UV-Type (conform EN 60335-2-27)	4	4	4
WARNING - To be used following medical advice only			
Fuses:	3 x 16 A (slow)	3 x 16 A (slow)	3 x 25 A (slow)
Power Supply:	3 x 400V - N - PE 50Hz	3 x 400V - N - PE 50Hz	3 x 400V - N - PE 50Hz
Power Consumption circa:	7.500 Watt	7.000 Watt	11.700 Watt
Weight circa:	370 Kg	370 Kg	395 Kg
Dimensions:	A x B x C = 233 x 135 x 150 cm		

UltraSun
i n t e r n a t i o n a l

P.O. Box 108 - 7550 AC, Hengelo - The Netherlands
Diamantstraat 4 - 7554 TA, Hengelo - The Netherlands
Phone : +31 (0)74 - 2 91 22 15 / Fax : +31 (0)74 - 2 91 58 37
www.ultrasun.nl / info@ultrasun.nl

Solarwind 5000

Dimensions - Grundabmessungen - Afmetingen - Dimensions