

*UltraSun*

a little bit of paradise

# owners manual



7Z0120 / 05-05-01



AM 30

powertower  
10.000  
8000

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## 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.
- For single phase 220V AC usage: Use of a voltage source above 230V AC may prevent proper operation of the tanning machine and could cause damage and void the warranty.
- Never use this machine when the flexible ductings are not connected.
- Never use this machine when the timer is faulty.
- Air from the room is used to cool the sunbed. This machine may not be operated if the temperature inside the room is 27°C = 80°F or higher. Make sure nothing obstructs the airflow into the stand-up endcaps. A poorly ventilated room may cause the unit to become hot and cause discomfort to the user.
- Never use this machine when one of the acrylics is broken or removed. You must check this before use!
- Use this appliance only standing-up in the middle of the tanning plateau.
- The power supply should be installed by a qualified electrician.
- This device is intended to be used by one person at a time!
- This machine is not to be used by persons burning without tanning when exposed to the sun, by persons suffering from sunburn, by children aged under 16 years or by persons suffering from or previously suffering from skin cancer or predisposed to skin cancer.
- Always use the protective sun glasses 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 tumors.
- 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.
- Use this machine only standing -up in the middle of the sun plateau. Do not overload the suspended weight of the suspension handle on top in the middle of this machine. The overload capacity is 30 Kg.
- In order to keep your Ultrasun machine in compliance with the standard, you have to make sure to change lamps, components and accessories with original lamps, components and accessories only.  
Otherwise guarantee will be taken off as well as any responsibility and any liability.
- Make sure there is at least 10 cm / 5 inches space between the machine and the walls/ceilings to ensure proper ventilation.

## Warning Label

**WARNING**

**DANGER**



**WARNING**

### **ULTRAVIOLET RADIATION**

**FOLLOW INSTRUCTIONS – WEAR PROTECTIVE EYEWEAR;  
FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN  
SEVERE BURNS OR OTHER LONG TERM EYE INJURY – IF  
DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT  
A PHYSICIAN**

#### **Danger:**

- Medications or cosmetics may increase your sensitivity to the Ultraviolet radiation. Consult a physician before using this product if you are using medications or have a history of skin problems or believe yourself especially sensitive to sunlight. If you do not tan in the sun you are unlikely to tan from the use of this product.
- Overexposure should be avoided.
- Children, the elderly or fair skinned people who always burn easily and either never tan or tan minimally should not use this equipment.
- Minimum use distance is 1 inch or 2,5 centimetre.
- Tanning may appear after one application, provided that your skin is capable of developing a suntan. Allow 48 hours between sessions to obtain a base tan, once or twice per week to maintain appearance.


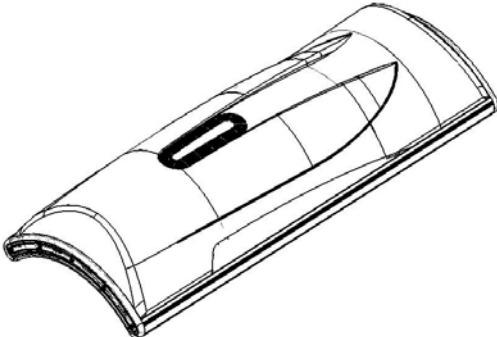


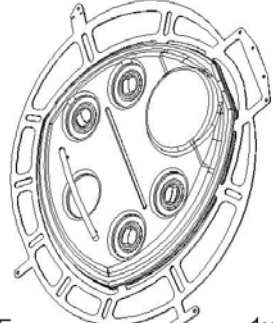

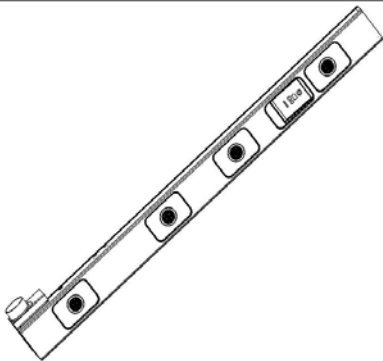



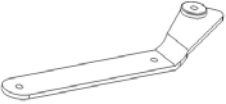




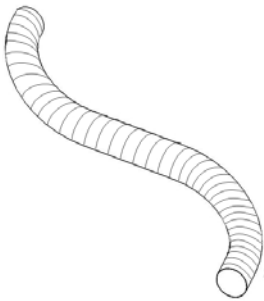


#### **Warning:**

- Read the instructions booklet before using this product.
- This device is intended to be used by one person at a time.
- Use this appliance only standing-up in the middle of the sun plateau. Any other position may result in overexposure.
- Do not overload the suspended handle on top in the middle of this appliance. The overload capacity is 30 Kg.
- Recommended eyewear: provided eye shields (Sunfit Lighting BV type 2000) or equivalent eyewear as defined under 21 CFR 1040.20. 2(b) (6).
- Two pairs of protective eyewear are furnished with this equipment and should be worn by all persons in the room when the lamps are on.
- Always unplug this product immediately after using.
- Disconnect power cord also before attempting to clean, replace lamps or engage in the maintenance of this product.
- **The following lamps have been certified for use in this equipment:**  
**For POWERTOWER 8000 - 10.000 the label is: SUNFIT XXL200 Premium**
- **This product conforms with performance standards for sunlamp products under 21CFR part 1040.20.**

***This product has been manufactured in accordance with the Radio Interference Suppression requirements of the EEC Directive no. 82/499 resp. 85/500 and in compliance with UL 482 and CSA standards (UL and CSA are copyrighted trademarks of their respective organizations).***

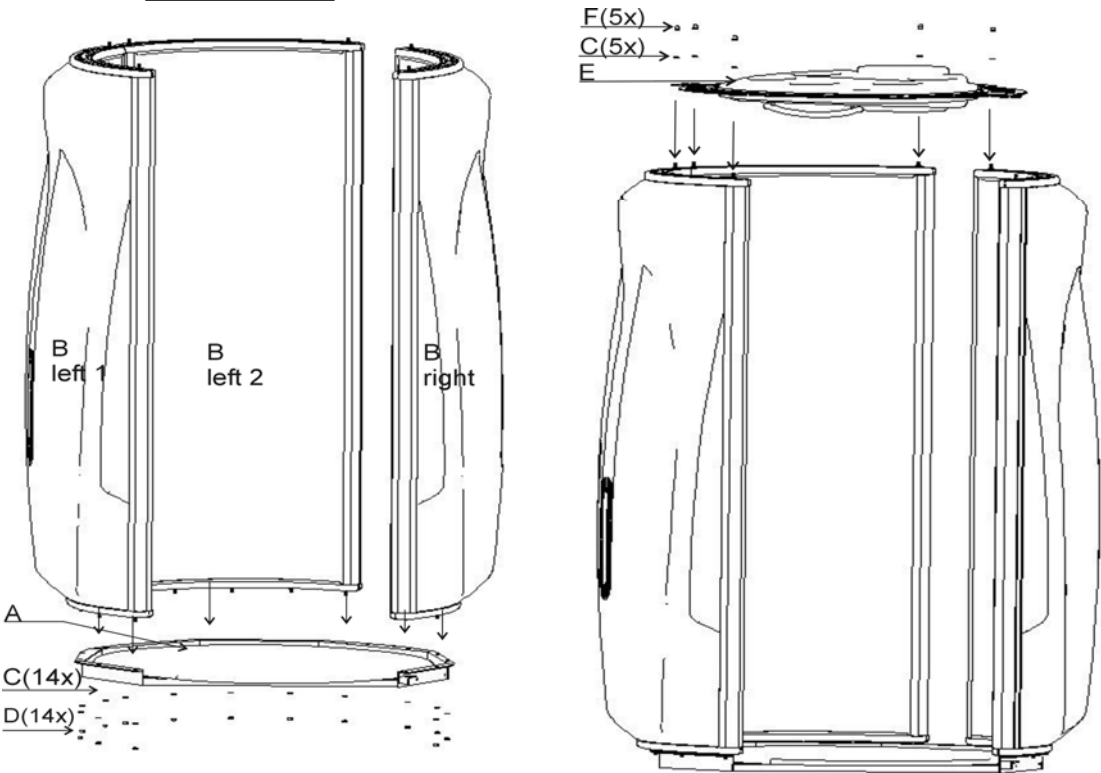
# Assembling the Powertower 10.000

## Parts Powertower 10.000

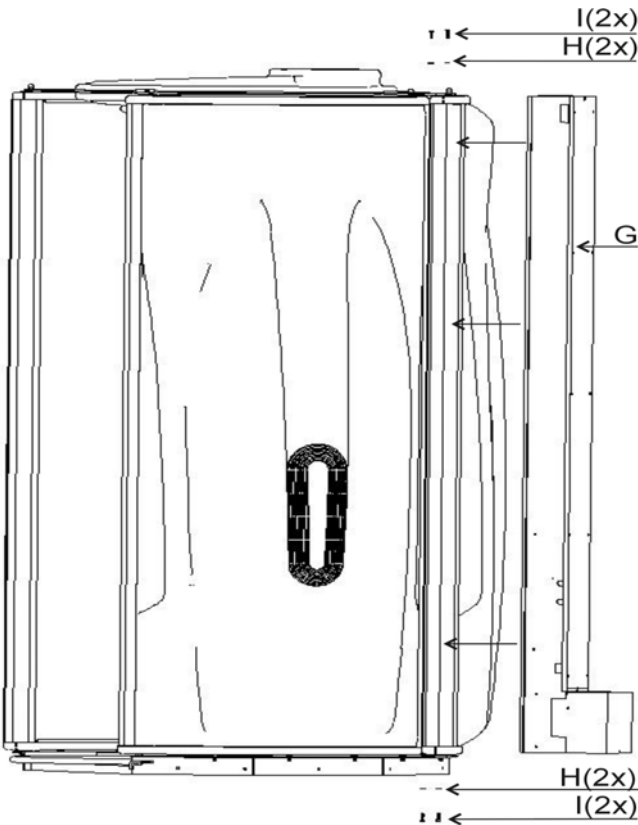
 <p>A</p>	1x	 <p>B</p>	4x	 <p>M8</p>	23x	 <p>M8</p>	14x				
 <p>E</p>	1x	 <p>M8</p>	8x	 <p>G</p>	1x	 <p>M6</p>	4x				
 <p>M6x20</p>	4x	 <p>J</p>	1x	 <p>K</p>	1x	 <p>M8x25</p>	4x	 <p>M</p>	1x	 <p>M10</p>	1x
 <p>O</p>	2x	 <p>Ø100x4m</p>	1x	 <p>Ø100</p>	2x	 <p>3,9x9,5</p>	12x				

**Assembling the Powertower 10.000**

**Step 1**



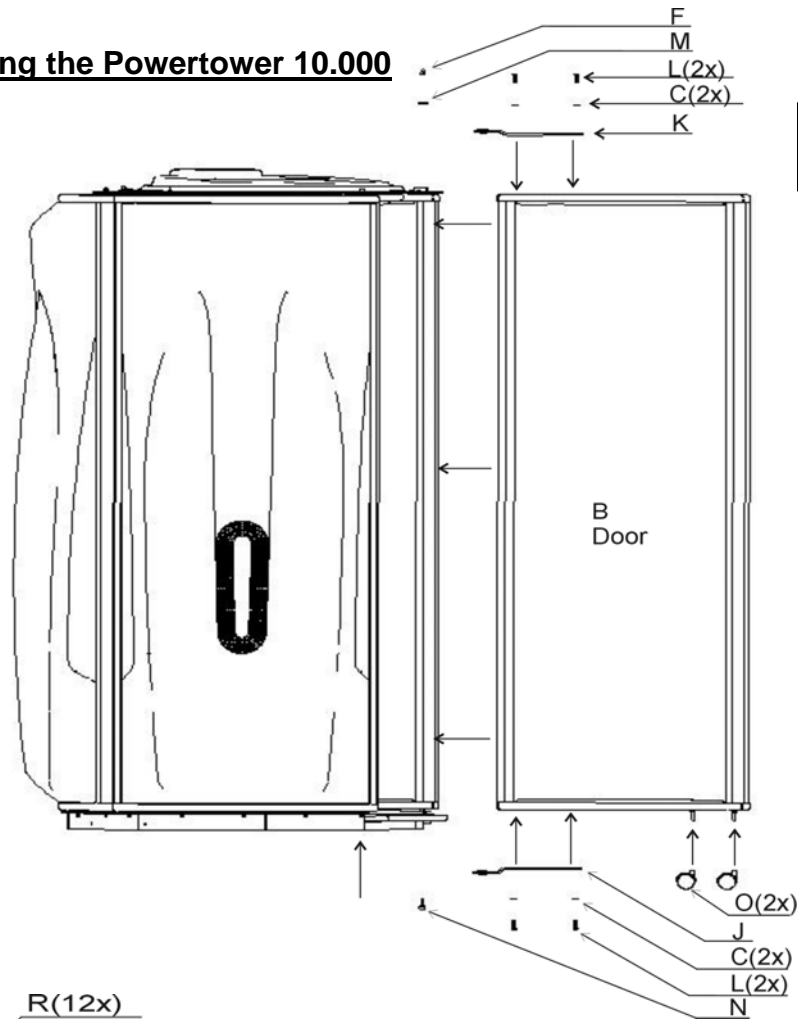
**Step 2**



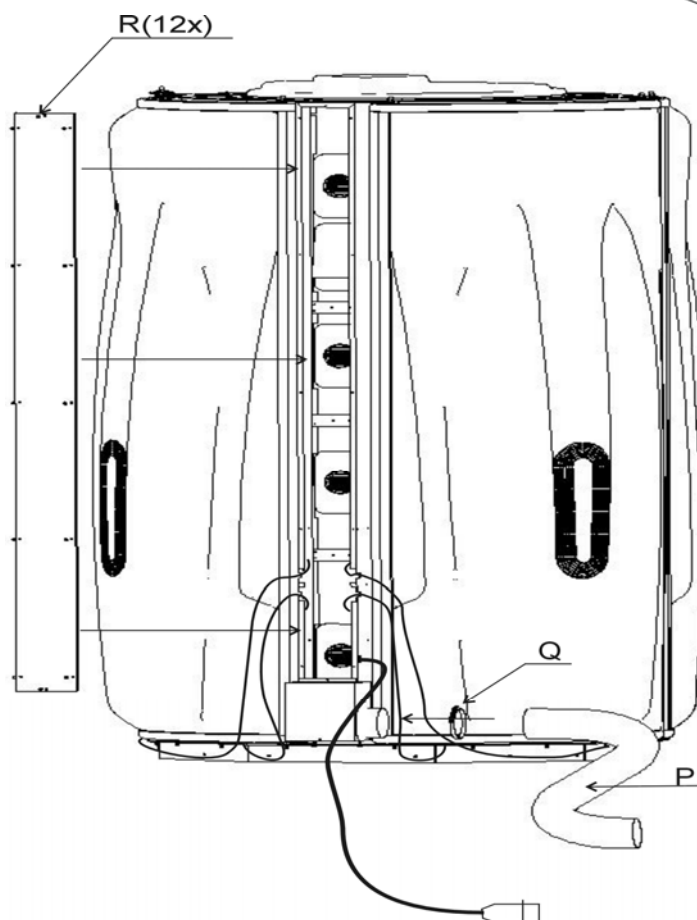
**Step 3**

## Assembling the Powertower 10.000

**Step 4**



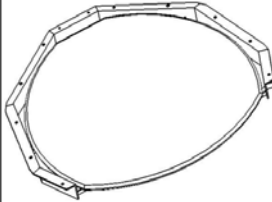
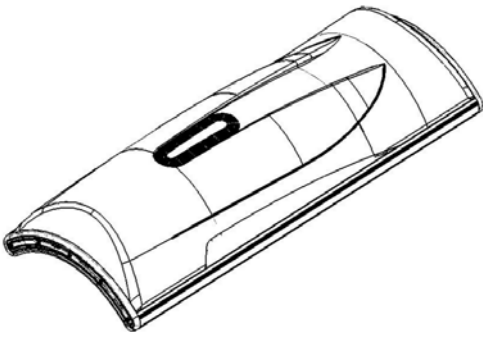




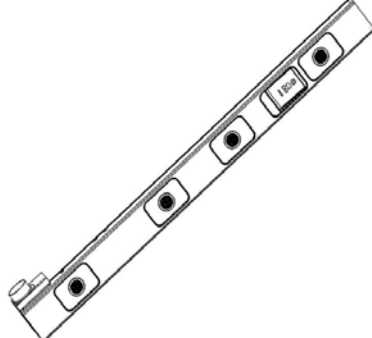



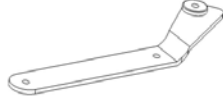




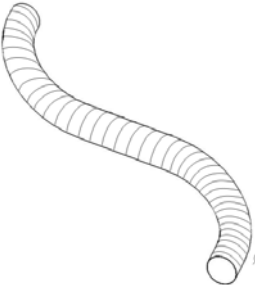


**Step 5**





# Assembling the Powertower 8000

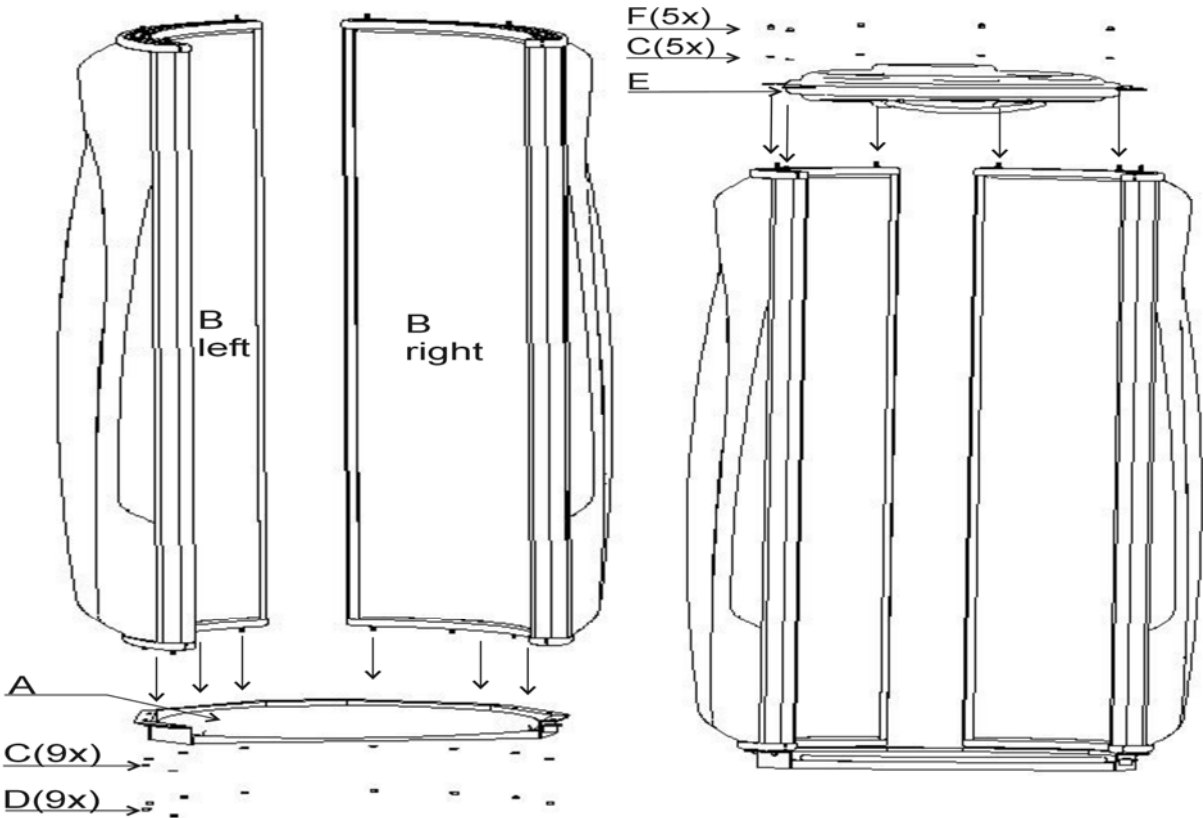
## Parts Powertower 8000

											
A	1x	B	3x	C	18x	D	9x				
											
E	1x	F	8x	G	1x	H	4x				
											
I	4x	J	1x	K	1x	L	4x	M	1x	N	1x
											
O	2x	P	1x	Q	2x	R	12x				

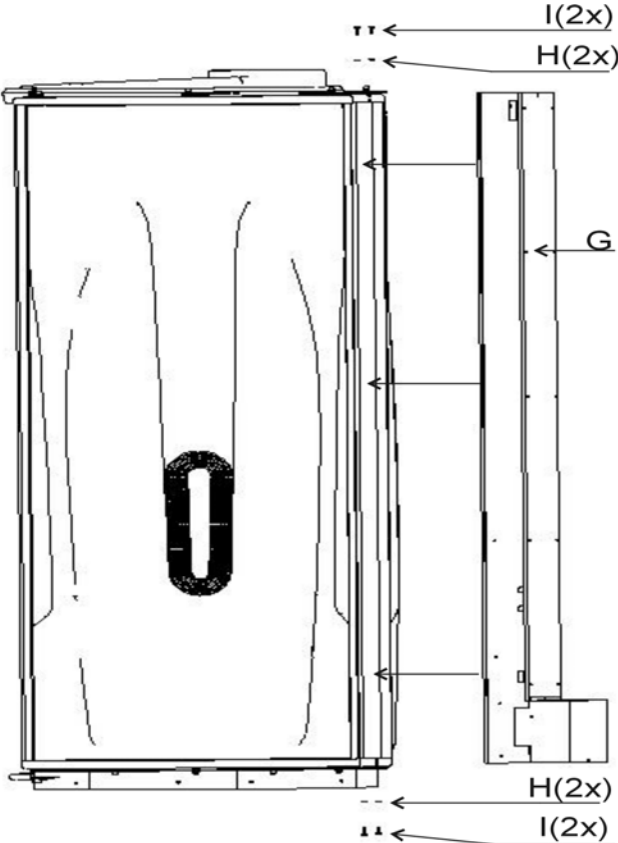


Assembling the Powertower 8000

**Step 1**



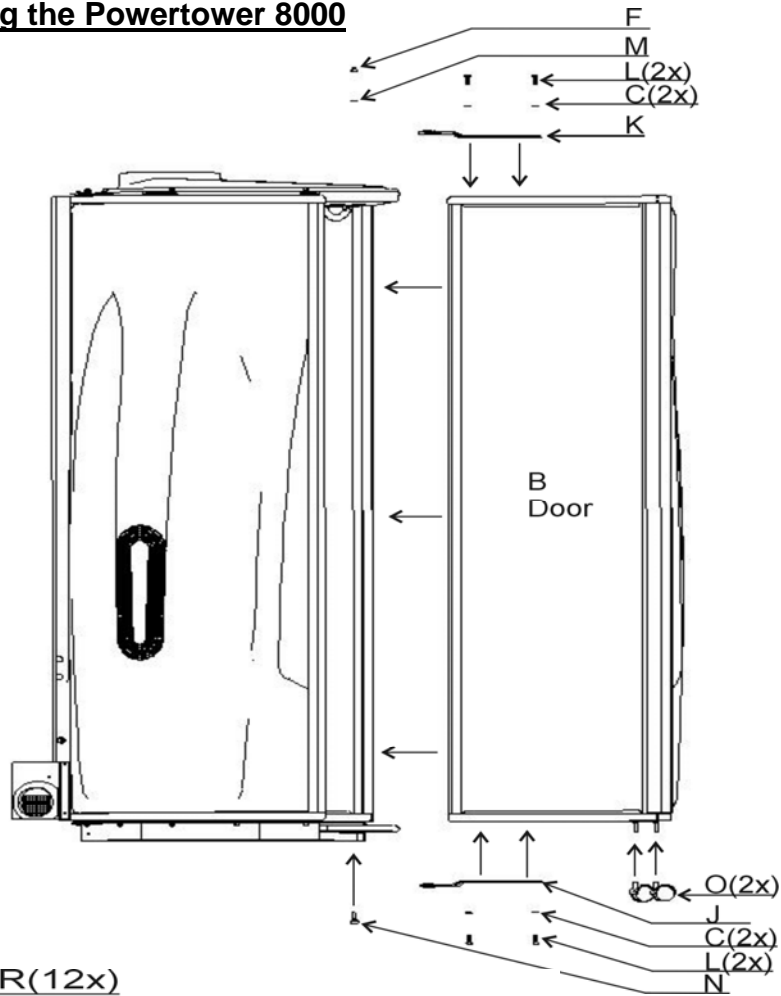
**Step 2**



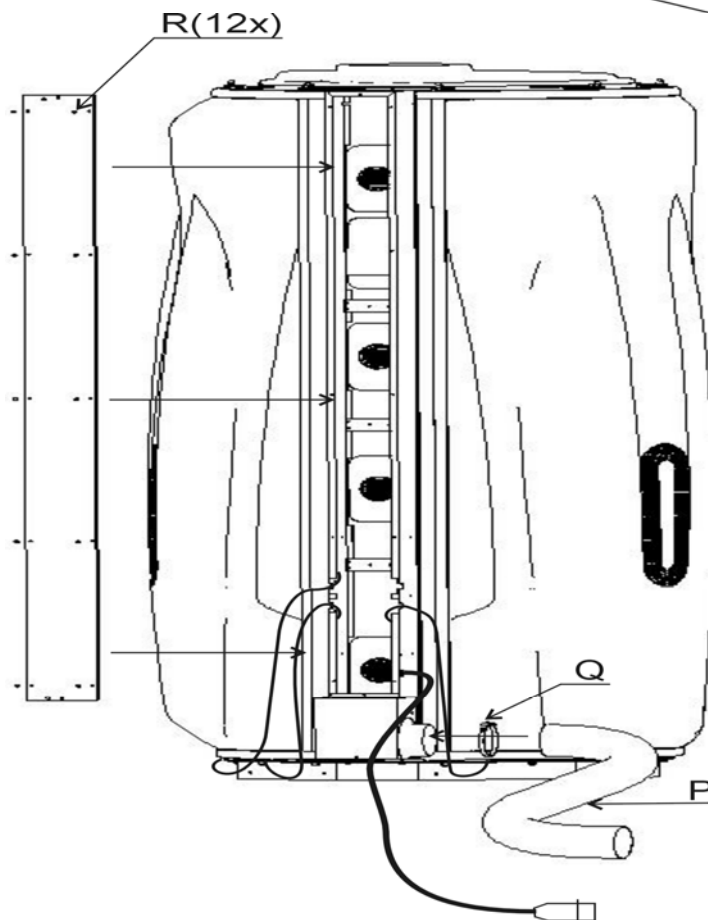
**Step 3**

## Assembling the Powertower 8000

**Step 4**



**Step 5**



## Assembling instructions

Please put all the parts together as shown in the above shown drawings. At first pull all screws and nuts fast by hand. After all parts are mounted pull the screws faster. If you connect the enclosed hose Ø 100 (4 meters long) make sure there is enough fresh air going into the room. Connecting the hose for extracting the warm air of the room and machine is recommendable.

**WARNING:** do not exceed 4 meters of hosing inclusive ducting for air extraction. We advise you to save the original packaging of your Ultrasun Powertower for a period of 3 months.

## Important

Make sure there is enough fresh air going into the room. Connecting a ventilation system to extract the warm air of the room and machine is recommendable.


Read the tanning schedule on the body-cooling panel.

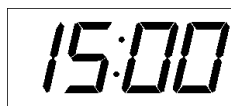
## Introduction

As many sun worshippers have a preference for upright tanning instead of the reclined position, Ultrasun developed the Powertower 8000 or 10.000. This Stand-up gives you the possibility to enjoy sunlight in an even more comfortable way during the whole year. The Sunfit Lamps guarantee maximum results in no time. The Powertower 8000 or 10.000 offers you all possible tanning effectiveness, provided you strictly follow the user's instructions.

## Instructions for use

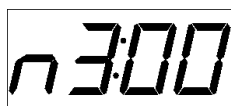
- After you have installed the Ultrasun Powertower 8000 or 10.000 according to the assembly drawing, plug in the main plug.

-  Stand-by  
When START is selected the pre-set time is indicated (standard default setting of 15 minutes) and the Powertower is operational. With the Time-button you can reduce the time lapse.



In Use

A buzzer will sound when the session has only 10 seconds left to run.



Overrun

The lamps switch off automatically and the fans will overrun for three minutes. This is marked on the display with "n".

- During the tanning session the body cooler can be set faster or slower with the FAN switch.
- If you do not use the Powertower a long period of time, we advise you to unplug the unit.

## Exposure schedule Powertower 8000 / 10.000

### Powertower 8000 and 10.000

RECOMMENDED EXPOSURE SCHEDULE		MAXIMUM EXPOSURE TIMES ( IN MINUTES )			
SKIN TYPES:		WEEK 1 1 <sup>st</sup> -2 <sup>nd</sup> Sessions	WEEK 2 3 <sup>rd</sup> -5 <sup>th</sup> Sessions	WEEK 3 6 <sup>th</sup> -8 <sup>th</sup> Sessions	WEEKLY
<b>I Sensitive Skin</b> Burns easily and severely, and does not tan.		<i>Tanning not advised</i>			
<b>II Light Skin</b> Burns easily and severely, and tans minimally.		4	6	9	12
<b>III Normal Skin</b> Burns moderately, and tans moderately.		5	8	10	12
<b>IV Dark Skin</b> Burns minimally, and tans well or above average.		6	10	12	12

Allow at least 48 between all exposures, tan maintenance: 1-2 times weekly  
MAXIMUM EXPOSURE TIME: 12minutes.

### USA ONLY

### Powertower 10.000 USA ONLY

RECOMMENDED EXPOSURE SCHEDULE		MAXIMUM EXPOSURE TIMES ( IN MINUTES )			
SKIN TYPES:		WEEK 1 1 <sup>st</sup> -2 <sup>nd</sup> Sessions	WEEK 2 3 <sup>rd</sup> -5 <sup>th</sup> Sessions	WEEK 3 6 <sup>th</sup> -8 <sup>th</sup> Sessions	WEEKLY
<b>I Sensitive Skin</b> Burns easily and severely, and does not tan.		<i>Tanning not advised</i>			
<b>II Light Skin</b> Burns easily and severely, and tans minimally.		2	4	7	10
<b>III Normal Skin</b> Burns moderately, and tans moderately.		3	5	8	10
<b>IV Dark Skin</b> Burns minimally, and tans well or above average.		4	6	10	10

Allow at least 48 between all exposures, tan maintenance: 1-2 times weekly.  
MAXIMUM EXPOSURE TIME: 11minutes.

## The use of the solarium

A base tan should take a maximum of 10 days or less. Individual results may vary. The sensitivity of the skin is not the same throughout the year. That is the reason why one or two tanning sessions do not always show immediate results. If the result is not satisfying after a number of sessions, the indicated time may be extended by a couple of minutes, but not to exceed the allotted maximum tanning time. Should your skin feel tight after the first session, we would advise you to choose the schedule for a more sensitive skin. After the first session you should have a break of 1 day. We strongly advise you not to tan in the natural sunlight within a 24-hour period of tanning session.

After achieving your base tan we recommend one or two tanning sessions a week to maintain.

## Important Information

For safe tanning the following precautions have to be taken:

1. Always use the provided eyewear.
2. Remove cosmetics before tanning.
3. Do not take more than one sunbath a day and avoid exposure to the natural sun during a solarium session.
4. Do not deviate from the recommended tanning schedule.
5. Consult your doctor if persistent lumps, sores or birthmarks develop on the skin.

## Troubleshooting

- If your Ultrasun Powertower 8000 and 10.000 or part of it (Door or Fixed Panel) doesn't function, please check:
  - the fuses/differential switch of your main supply
  - the connection between the Door Panel, Standing Panel and the body cooler and air-extractor-panel.
- If there is one or more lamps that do not function, please check if the lamps are inserted into the lamp holders properly by turning the lamps. This also pertains to the starters, placed near the ends of the lamps. If this does not rectify the problem check if the lamp or starter is defective by placing a good lamp and/or starter (see replacing lamps and starters) in its' place. If it appears not to be the lamp or starter there could be a faulty electrical connection inside the Powertower.
- Switch off the power supply to the machine when:
  - working inside the appliance
  - fans are out of order
  - technical failures
- Please contact the technical service department in case the problem can't be solved with the above mentioned possibilities.

## Replacing Lamps and Starters

The estimate lifetime of this lamp is approximately 800 hours.

Before replacing the lamps and/or starters always unplug the equipment first!

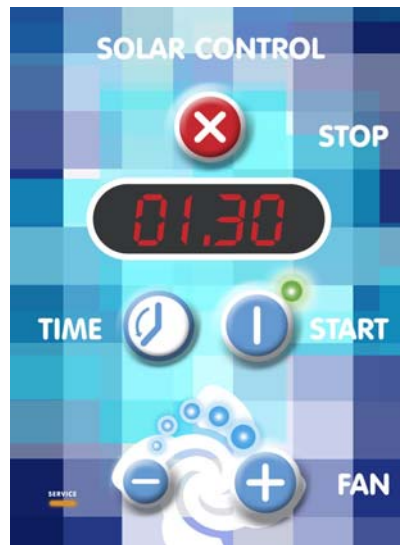
For the replacement of lamps, starters etc. use only the recommended parts.

In order to keep your Ultrasun machine in compliance with the standard, you have to make sure to change lamps, components and other accessories with original lamps, components and accessories only. Otherwise guarantee will be taken off as well as any responsibility and any liability.

- a. Remove the acrylic sheet by loosening the plastic strips. Pulling them upwards can loosen the plastic strip. After that you can move the acrylic sheet up or down. At the other side you can carefully take out the sheet.
- b. Remove the lamps by turning them to the left or right and take them from their holders.
- c. Remove the starters by turning them, a little, to the left.
- d. Place the new lamps and starters in the same way. Always use the same type of lamps/starters.



## Operation of the Solar Control Unit



**SOLAR CONTROL UNIT**

### OPERATION OF THE MULTIFUNCTIONAL SOLAR CONTROL UNIT

This solarium has been equipped with an advanced operation and protection system that automatically takes care of all functions, controls and guards.

This unit has been installed with the finest program to benefit the user.

The solarium can be programmed by altering a variety of functions and signals. The Solar Control Unit can also be programmed for use in conjunction with a coin box and/or connected to a central distance control.

**WHEN CHANGES IN THE PROGRAM ARE MADE, IT CAN AFFECT THE PERFORMANCE OF THE SOLARIUM, THEREFORE AFFECTING THE USER. LET AN EXPERT PROGRAM THE UNIT!**

The Solar Control Unit has five control buttons, a display with four digits and seven signal leds (light-emitting diodes.)

#### STANDARD SETTINGS

The standard settings vary, depending on the type of solarium. With the standard settings, the Solar Control Unit works as follows: Push the start button "I" beside the flashing green led. The standard programmed tanning time, in minutes and seconds, will appear in the display and automatically begin countdown.

The lamps turn on, and the sound of the internal cooling fans rotating will be heard. The body cooler will also start working. Three blue led's will also appear on the display, showing that the body cooling fan is switched on with average air flow.

First, set the correct tanning time best related to your skin type. This can be done by repeatedly pushing the button (with picture of clock) until the correct tanning time appears the body cooler fan can be adjusted during the tanning session to the desired comfort level of the tanner by pushing the "+" or "-" fan buttons. Six different levels of air flow are available



and visible by the number of burning led's. An audible signal will be heard just before the end of the tanning session. After hearing this signal, the lamps, and body cooler will shut off and the cool down process will automatically begin. Once the Powertower has cooled, the green led will blink and the process can be repeated. If customer pushes the stop button during the session, the lamps will shut off immediately and the program goes to the after cooling cycle.

#### PROTECTION FUNCTIONS OF THE SOLAR CONTROL UNIT

The Solar Control Unit is an advanced operation and protection unit specially developed for Ultrasun tanning beds. A range of internal controls occur when the power is turned on. After these controls are complete, the green led next to the start button begins blinking and the tanning bed is ready for use. If the Solar Control Unit detects an error in the system during start up, a continuous signal will be heard, not permitting the tanning session to begin until the error is corrected by turning off the power at the breaker or switch box then turning it back on.

A standard start up, which may vary depending on bed model, is typically as follows: the lamps turn on together with the internal cooling system and the body cooler (automatically providing average air flow), The air flow can be regulated with the + and – button.

At the end of the programmed tanning session, the Solar Control Unit will check automatically if the tubes have actually been switched off. In case the tubes didn't switch off, the Solar Control Unit will try again to switch off the tubes. Simultaneously you will hear an acoustic signal and the tanning bed will be transferred to the after cooling mode.

#### SOLAR CONTROL UNIT WHEN USING AN EXTERNAL TIMER UNIT

The tanning bed can also be controlled by using a distance controlled personal computer or plural control unit. The Solar Control Unit has to be programmed to achieve this. The Solar Control Unit will be controlled by the external timer unit or control unit that gives an externally permanent contact. The tanning time will be defined by the settings of the personal computer or the external timer unit the maximum of the programmed time has been reached on the Solar Control Unit. When the Solar Control Unit has been programmed to this kind of control, it is not possible to start the solarium by pushing the start button on the Solar Control Unit. The green led won't flash now. It is possible that a so-called pre-run time will be programmed. In this situation the solarium will start in a delayed manner so that the customer has time to undress. If the Solar Control Unit has been programmed this way, it is possible to start the tanning bed during the pre-run time by pushing start button I. During the tanning session the program runs almost identically as described at the control according to the standard settings as listed above. If the Solar Control Unit has been programmed as described in this particular part of the instruction, the time as shown on the display will increase till the moment the tubes are shut down by the personal computer or external control unit. Immediately after the tubes shut down, the after cooling mode of the machine will start. Also the closing system controls will take place.

#### CONTROLLING THE SOLAR CONTROL UNIT WITH A TOKEN BOX

When the Solar Control Unit is to be connected to a token box, you will have to program the unit accordingly. The offered signal from the token box has to be a pulse lasting longer than 10 milliseconds. Shorter pulses will be detected as a disturbance. The program will start immediately after coins have been deposited. This depends on the programmed settings of the Solar Control Unit. After depositing a coin, the tanning bed will start as described before. The display will show the tanning time. When the unit has been programmed to the (obliged) use of more coins, after depositing the first coin you will see the time per coin blinking on the display. If you now push the start button, the tanning bed won't start. The text "coin" will then appear in the display. When sufficient coins have been deposited, the tanning bed will start.

When too many coins have been deposited and the maximum tanning time will be exceeded, the display will show the text "stop". The maximum programmed tanning time will not be exceeded after starting the tanning bed.

**ATTENTION:**

**THE SOLAR CONTROL UNIT HAS TO BE CONTROLLED THROUGH A POTENTIAL FREE PULSCONTACT, WHICH IS INSTALLED IN THE COINBOX.**

**READING THE NUMBER OF HOURS, PULSES AND COINS**

In stand-by position the number of pulses, coins (when using a distance control or coin box) and the number of used hours can be read. Push 5 or 6 seconds on the button showing a clock. When keep pressing the button the display shows automatically the number of used hours (HOUR) pulses (PULS) and the number of coins (COIN):

**SETTING OF THE PARAMETERS!**

The Solar Control Unit can be programmed as preferred by means of setting the individual parameters.

**PARAMETERFUNCTIONS**

PARAMETER DESCRIPTION		SELECTION	STANDARD SETTING
P1	Exposure time	00-60 minutes	**
P2	Users time	00: Normal Use; Start with START button 01: Remote Control (external timer/switch) 02: Token Boxes (Coin Control)	00
P3	Freeze interruption cooling down	00: Not frozen 01: Frozen	01
P4	Cooling down time	00-09 minutes	03
P5	Pre-run time	00-09 minutes	00
P6	Time per token	01-60 minutes (only in Parameter mode P2-02)	05
P7	Minimum token insert	01-10 coins (only in Parameter mode P2-02)	01
P8	End signal	00-60 seconds	10
P9	Turn around signal	00-58	0
PA	Time break tanning session	00 - 60 seconds	00
PB	Delay restart facials	03 - 99 seconds	90
PC	Service interval signal (set up per 100 hours)	00 - 10	08
D	Failure detection	00 switched off 01 switched on	00
PE	Start position fan speed	5 positions	03
PF	Reset parameter service interval	00	
PIN	Settings PIN code		

\*\* depends on type of machine

**PLEASE NOTE THAT THE SOLAR CONTROL UNIT HAS TO BE IN THE STANDBY MODE DURING THE SETTINGS OF THE ABOVE MENTIONED PARAMETERS**

## ACTIVATE THE SETTINGS MENU

Push and hold the button with the clock while repeatedly pushing the start button five times. The display shows P1:\* \*. This is the parameter to program the tanning time, standard setting is \* \* minutes. In order to change this time, push the + or – button until the desired time in minutes appears in the display.

Now the correct tanning time is programmed and the Solar Control Unit returns to the stand-by mode.

Program another parameter; push the button with the clock several times until necessary parameter is reached.

At the end of the series of parameters you will see the word PIN displayed. How to change the PIN code is explained in another chapter.

If you push the button with the clock just after the word PIN appear in the display,

Parameter P1:\* \* will appear again in the display.

(\* \* depends on type of machine)

## PARAMETER P1: SETTING OF THE SESSION TIME

With this parameter, the maximum exposure time per session can be set, regardless whether the Solar Control Unit is set for coin use, distance control or via the control unit!

The tanning time depends on a number of factors; like the skin type, number & type of lamps.

This time is indicated a diagram which is placed on the solarium.

The tanning time can be set between 0 – 60 minutes.

## PARAMETER P2: SETTING OF THE USER MODE

### **P2:00**

Standard setting for usage via the control unit; Start by pushing the START button.

10 Seconds before ending the tanning period a buzzer will signal.

### **P2:01**

Setting for usage via Distance Control (external timer/switch) with a permanent contact. This function has been described under the chapter;

#### **The Solar Control Unit under use of an external timer unit**

When the solarium is controlled with this, this can be a switch or timer on distance, the solarium will start after the Pre-run Timer, when/if programmed (0-9 minutes), the tanning time will be indicated on the display, adding up, starting from 00. The time set at P1 can not be exceeded. If the contact is interrupted the solarium will switch to the programmed after-cooling time. After that the solarium is in a position stand-by for a new tanning session. The buzzer for the last 10 seconds only functions if the maximum Exposure Time P1 has been reached.

### **P2:02**

Setting for adapted use with Token Boxes (Coin Control); the solarium starts by means of a potential-free pulse contact of the coin feeler in the token system. Depending on the Timer per Token (P6), it is possible to insert tokens into the token box until reaching the maximum Exposure Time P1. 10 Seconds before ending the tanning session a buzzer will signal.

**PLEASE NOTE:** If Pre-sun Time P5 is programmed, the display will show invariably the Pre-run Time indicated by “v + time” and the tanning time by “tt + time”.

**Do not insert any tokens while the bed is in use and during the Cooling Down period (if parameter is set on P3:01).**

## PARAMETER P3: SETTING INTERRUPTION FOR THE AFTER COOLING

With this function you can either interrupt the after cooling or not.

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**With this function you can either interrupt the after cooling or not.**

### P3:00

When this parameter is set, it is possible to interrupt the Cool Down period. During the Cool Down the solarium can be restarted, dependant on the chosen mode of operation: either with the start button, the distance control or by depositing a coin in the coin machine.

### P3:01

When this parameter is set it is not possible to interrupt the Cool Down. Only when the Cool Down period is finished can one restart the solarium.

## PARAMETER P4: SETTING OF THE COOLING DOWN PERIOD

Adjustment of the Cool Down time; after the exposure time is finished the Cool Down time will begin, indicated on the display with an **N**. Time can be set between 0 and 9 minutes. The standard time of the Cool Down is 3 minutes.

## PARAMETER P5: SETTING OF THE PRE-RUN TIME (WARM-UP TIMER)

The pre-run time can be adjusted in order to delay the start of the session. After this time, the solarium will automatically begin with the tanning session. On the display, the pre-run time is indicated by "**v** + time" and the tanning time by "**tt** + time" (see also Parameter 6). The pre-run time is programmed standard at 0 minutes. During the pre-run time it is always possible to start the session by pushing 'START'.

## PARAMETER P6: SETTING OF THE TIME PER TOKEN

This setting will only work when **P2; 02**: control with coin machine.

One can now adjust the 'time per token'. This can be the maximum time **P1**, or part of this time. After inserting a token this time will be shown on the display. When inserting the next token, this time(s) will be added on the display. The maximum exposure time **P1** can not be exceeded and will remain constant.

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

## PARAMETER P7: SETTING OF THE MINIMUM TOKEN INSERTS

Amount of tokens necessary for starting the timer. This setting will only work when **P2;02**: control with coin machine. 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.

## PARAMETER P8: SETTING OF THE END SIGNAL

Adjustment of the End signal. Default setting is 10 seconds. A buzzer will sound when the session has only 10 seconds left. The End signal can be set for 0 (=off) to 60 seconds. The Buzzing sound occurs twice every second.

## PARAMETER P9: SETTING OF THE REVERSE SIGNAL

Standard setting is P9:00, no reverse signal.

P9 = 00; Turn around Signal is deactivated.

P9 = 01; Turn around Signal is activated, half-way through the exposure time.

- Parameter P2=00: Half-way through the Exposure Time P1, the Turn around Signal will be Indicated by a buzzer (4 times approx. 1 second beeps).
- Parameter P2=01; Half-way through the Exposure Time P1, the Turn around Signal will be Indicated by a buzzer (approx. 4 times approx. 1 second beeps). In case of not using the Maximum Exposure Time P1 the Turn Around Signal will be heard.

- 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 (4 times approx. 1 second beeps)

With standard setting P9:2-58 the turn-around signal will be activated half-way through the exposure time.

#### PARAMETER PA: 'PAUSE' SETTING

With this parameter the interruption time can be set so that it is possible to pause and restart the session without delay.

When at setting **PA: 00** the stop button is pushed then the lamps will stop and Cool Down will start.

There's no restart. The Cooling Down cycle will set into motion and the machine stops.

With settings **PA: 01** till **PA: 60** a pause time can be set. Within this time, in seconds, after pushing the stop button the machine can be restarted by means of pushing the start button. This will be shown by the flashing of the 'led' beneath the start button. After the pause time has expired the machine cannot be restarted. The Cooling Down cycle will be finished. The Pause setting is not activated in the standard setting. (**PA: 00**)

#### PARAMETER PB: SETTING STARTINTERVAL FACIALS

Not available by this machine

#### PARAMETER PC: SERVICEINTERVAL SIGNAL

After frequent use of the machine the lamps will gradually decrease the output given and therefore need replacement. As well as that inspection and maintenance needs to take place. For these reasons we have built in a time function which, after a given amount of hours, will light up the orange 'led', signalling that service on the machine is necessary. This parameter is standard set to **PC: 08** (800 working hours) Setting is possible between 100 and 1000 working hours.

For this reason there is a time function built in which will switch on an orange "led" after a couple of "working hours," which means that service is needed. This "parameter" is standard and programmed on PC:08 (800 "working hours"). Programming is possible between 100 and 1000 "working hours."

#### PARAMETER PD: OVERLOADINGS SECURITY

The Solar Control Unit is secured against overloading. If the tanning session is complete and the tubes are still working, the Solar Control Unit will produce an un-interrupted acoustic signal and it will attempt to shut the unit down automatically. The standard setting is PD:00, the overloading security is not activated at that moment.

For this extra security, you must program the Solar Control Unit on PD:01.

#### PARAMETER PE: STANDARD AIRQUANTITY BODYCOOLER

The amount of outgoing air from the body cooler can be programmed in 5 levels ranging from low to high. The standard setting when starting the tanning session is PE:03, allowing an average amount of air flow, which is shown by 3 blue "led's" on the display.

There are six different settings of air flow control. When there are no "led's" burning the body cooler is switched off.

From PE:01 for the minimum - PE:05 for the maximum airflow.

#### PARAMETER PF: THE RESETING FROM THE SERVICE-INTERVAL-COUNTER

Press the button with the clock on it, keep pressing this button while pressing the start button five times. The display will show P1:\*\*

Next, press on the button with the clock until the display reads PF:00.

Now press the + button and the button with the clock on it simultaneously. Some signals can be heard. The counter will be set back to 0. When no signal is heard, the process is complete.

The Solar Control Unit will switch over to P1:\*\* and afterwards to "rest position".

#### THE CHANGING OF THE PINCODE

The pin code from the Solar Control Unit can be changed: by following the steps listed below:

Hold the button with the clock on it and push the start button five times simultaneously. The display will show P1:\*\*.

Next, push the button with the clock on it several times until the display shows PIN.

Now push the start button; the first part of the display will start blinking. Enter the first number of your pin code. The numbers can be selected by pushing the + and – buttons. After the correct number is selected, press the stop button. The first number stays in the display while the second number blinks. Enter the second number of the pin code by following previously mentioned procedure. Continue this procedure until the total pin code is programmed. The display will show the word "GOOD," if the pin code is programmed correctly. If a mistake is made or a wrong pin code is programmed, the unit will automatically turn back to the stand-by position and has to be started all over again with programming the pin code.

When programming a correct pin code, the display will show the words "on" or "off". By pressing the + or – button you can choose to activate the pin code or not. After you have made this choice, press the start button. The stop button will cause the unit to turn back to the stand-by position. In order to change the pin code, the start-button has to be pressed now. The display will show "CHAG" meaning the pin code can be changed.

The pin code can be programmed as previously explained and then confirmed. If after activating or changing the pin code the stop-button is pressed, the unit will turn back to its beginning position for changing parameters. By pressing the stop-button again the unit will turn back into its stand-by position.

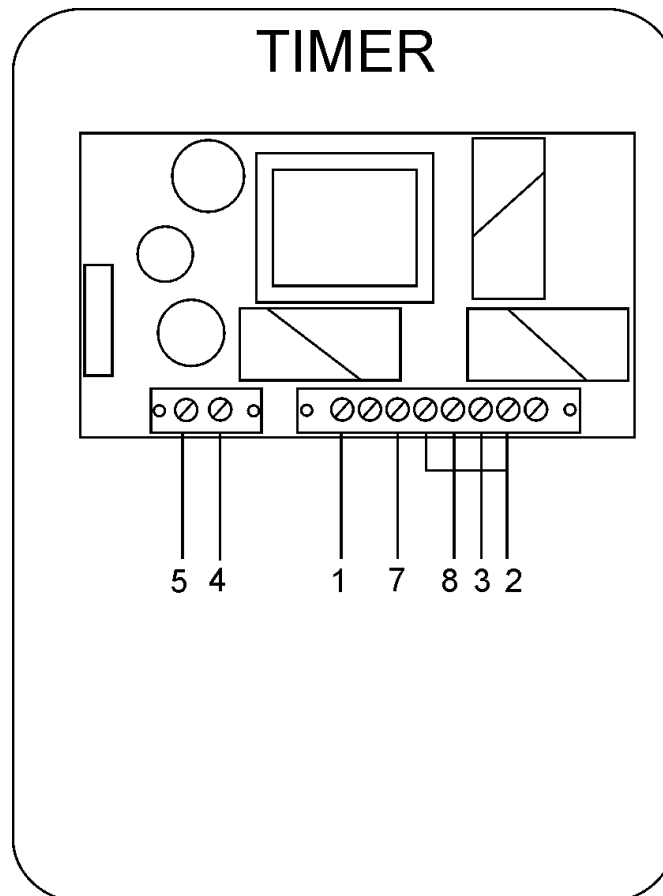
The programming "on" or "off" can be called by pressing the stop-button after the display shows "CHAG."

**THE PINCODE OF THE SOLAR CONTROL UNIT CAN ALWAYS BE CHANGED, EVEN IF THE PINCODE IS NO LONGER KNOWN. THIS CHANGE MUST BE MADE THROUGH ULTRASUN USING A MASTERCODE**

\*\* depends on type of machine

## Connections of the Control Panel

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



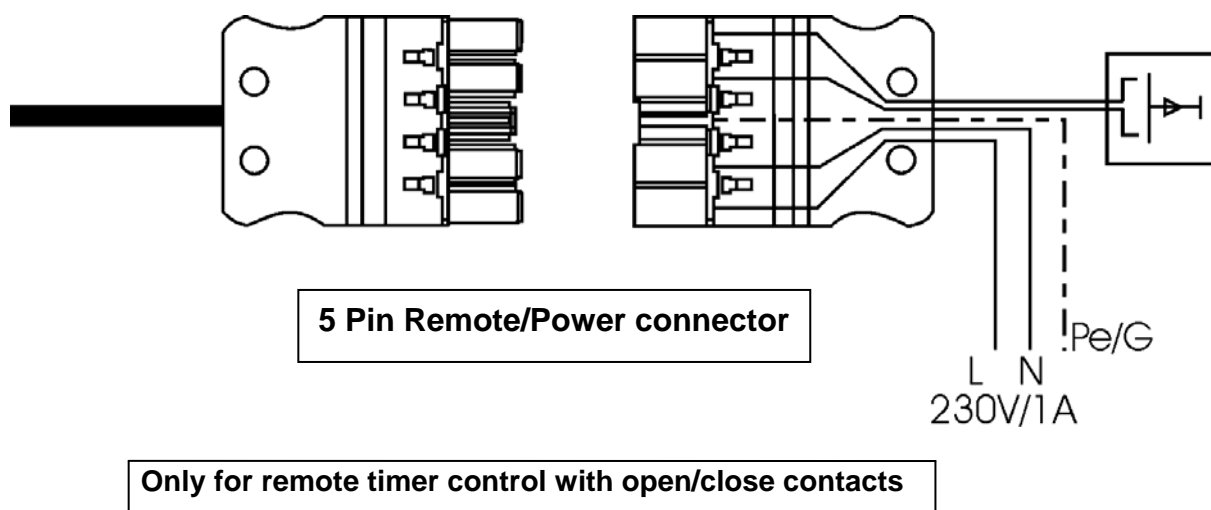
**Control Panel (Reverse Side)**

<b><u>Connector 1 (8 Pin)</u></b>	<b><u>Connector 2 (2 Pin)</u></b>
<ul style="list-style-type: none"><li>1) Neutral from mains</li><li>2) 'Life' from mains</li><li>3) Contactor for tubes</li><li>7) Fans</li><li>8) Body-cooler</li></ul>	<ul style="list-style-type: none"><li>4) External pulse contact (potential free)</li><li>5) External pulse contact (potential free)</li></ul>



## Connections for Remote Timer Control

Powertower 8000-10.000 / Remote Timer Control



At the back of your Stand-up Powertower 8000 and 10.000 you'll find the connection for the remote timer control. (DC in the drawing Step 5) 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/Remote Control Unit with a potential free (normally open) switch. The 230V connection is only meant to use to supply the electronic in the Remote Control Unit.

# Quick Guideline Solar Control Unit Settings

## **PROGRAMMING DIGITAL TIMER FOR USE WITH REMOTE CONTROL**

(Remote Control is a unit with a potential free (= NO Voltage) open/close contact.)

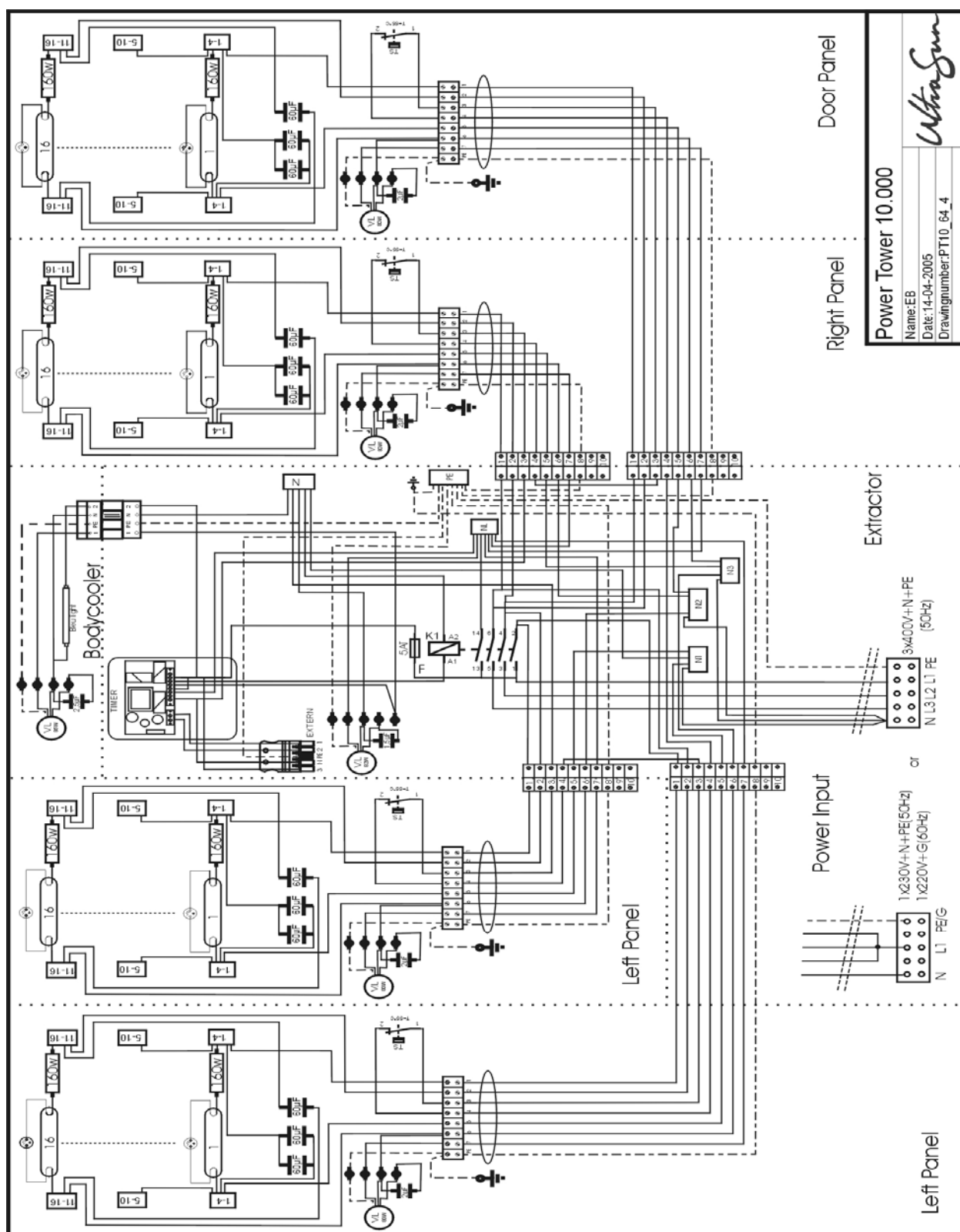
1. The remote port on the back of the Ultrasun unit needs to be wired to your remote timer. There are two terminals. Two-Switch Legs to be hooked up to your remote timer.  
While programming the timer, if there is a 15 second lapse, the timer will return to its' original manufacturer's state.
2. Locate the "Time" and "Start" button on the digital timer keypad
3. To access the changing of the parameters of the digital timer - hold the "Time" button in and press the "Start" button five times.  
The display should indicate P1.
4. With both buttons released, push the "Time" button until it shows P2.
5. Push the "+" button twice until it displays 01 or 02.
6. Wait fifteen seconds until the display reads 00. The timer is programmed and complete.
7. Quick test: push the start button. If the unit does not start, it has been properly programmed.

## **Caution**

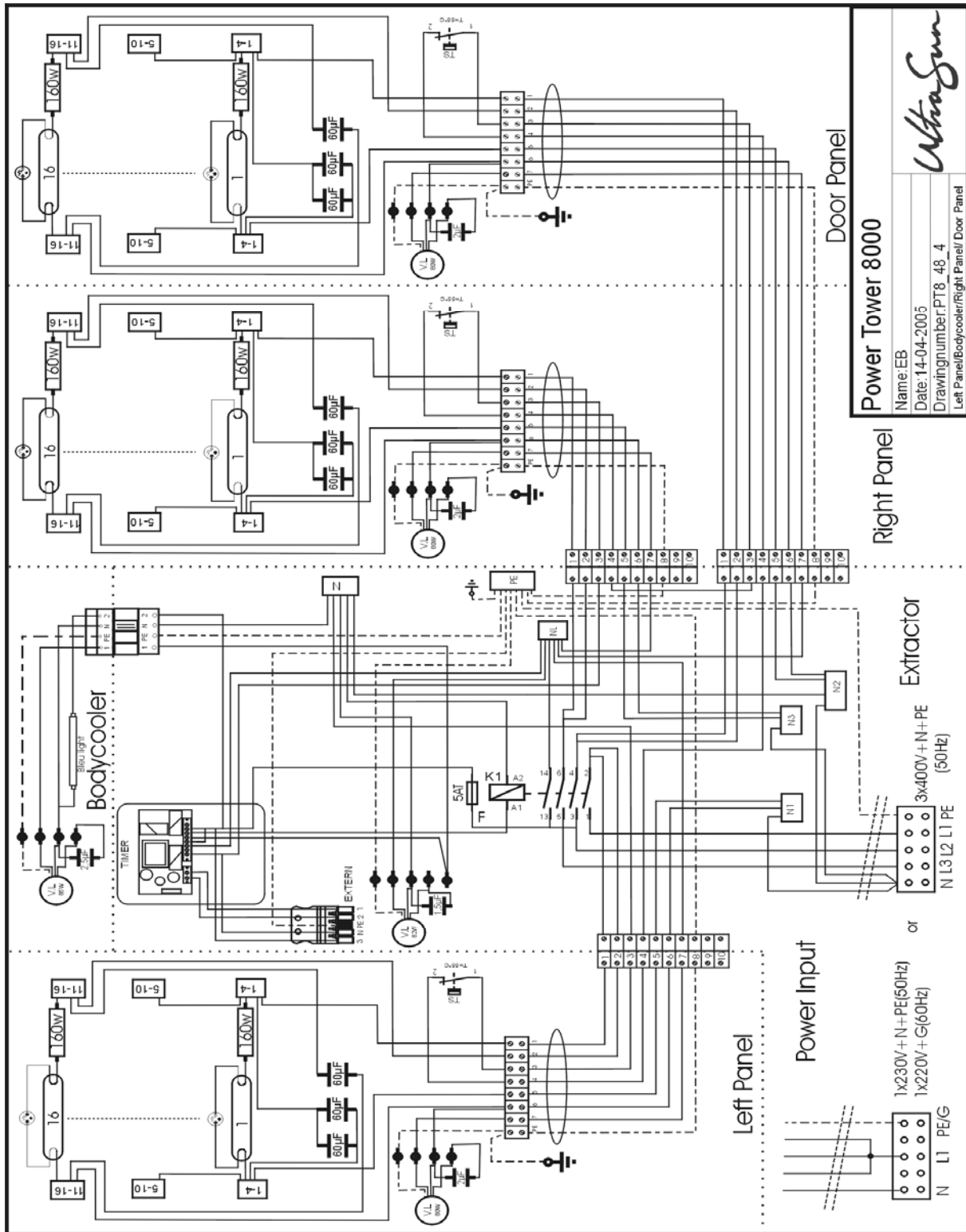
**POWER SHOULD BE OFF TO THE SOLARIUM WHILE YOU ARE CONNECTING THE REMOTE TIMER, DAMAGE MAY OCCUR TO THE DIGITAL TIMER IF THE POWER IS ON.**

Please contact your distributor for any further instructions if you have problems performing the above functions

## Wiring diagram Ultrasun Powertower 10.000



# Wiring diagram Ultrasun Powertower 8000





(Directive 93/68/EEC and 89/336/EEC (92/31/EEC))

declare that this product is in conformity with the following  
normative documents:

Safety: EN60335-1  
Safety: IEC335-2-27 + HD272S2  
EMC: EN55014  
EMC: EN50082-1

EEC-Directives: Low Voltage Directive  
93/68/EEC  
Electromagnetic Compatibility Directive  
89/336/EEC (as amended by 92/31/EEC)

Ultrasun International B.V.  
**Research & Development and Technical Services Division**

## Hengelo



**KONFORMITÄTSEKTLÄRUNG**  
(Richtlinien 93/68/EEC und 89/336/EEC (92/31/EEC))

Wir,                   Ultrasun International B.V.  
                         Granaatstraat 6  
                         7554 TR Hengelo, Netherlands

erklären, daß dieses Produkt folgenden Normen entspricht:

Angewandte harmonisierte Normen:

Sicherheit:       EN60335-1  
Sicherheit:       IEC335-2-27 + HD272S2  
EMC:             EN55014  
EMC:             EN50082-1

gemäß der Niederspannungsrichtlinie (elektrische Sicherheit) und  
Richtlinie Elektromagnetische Verträglichkeit (EMC-Richtlinie).

Einschlägige EEC-Richtlinien:

Niederspannungsrichtlinie  
93/68/EEC  
EMC-Richtlinie  
89/336/EEC (92/31/EEC)

Herausgegeben von:

*Ultrasun International B.V.*  
*Research & Development and Technical Services Division*

Hengelo

Ultrasun International B.V.  
Granaatstraat 6  
7554 TR Hengelo, Netherlands

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**DECLARATION DE CONFORMITE**  
(Directive 93/68/EEC et 89/336/EEC (92/31/EEC))

Nous,                   Ultrasun International B.V.  
                         Granaatstraat 6  
                         7554 TR Hengelo, Netherlands

déclarons que ce produit est conforme aux normes suivantes:

Normes:

Sécurité:       EN60335-1  
Sécurité:       IEC335-2-27 + HD272S2  
EMC:            EN55014  
EMC:            EN50082-1

et respecte la directive sur la basse tension (sécurité) ainsi que celle  
sur les compatibilités électromagnétiques (EMC).

EEC-Directive:

La directive sur la basse tension  
93/68/EEC  
La directive compatibilités électromagnétiques  
89/336/EEC (92/31/EEC)

Edité par:

*Ultrasun International B.V.*  
*Research & Development and Technical Services Division*

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**CONFORMITEITSVERKLARING**  
(Richtlijn 93/68/EEC en 89/336/EEC (92/31/EEC))

Wij,                   Ultrasun International B.V.  
                         Granaatstraat 6  
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verklaren dat dit product is samengesteld conform de eisen in de  
volgende documenten:

Toegepaste geharmoniseerde Normen:

Veiligheid:       EN60335-1  
Veiligheid:       IEC335-2-27 + HD272S2  
EMC:             EN55014  
EMC:             EN50082-1

volgens de Laagspanningsrichtlijn (elektrische veiligheid) en de  
Elektromagnetische Compatibiliteitsrichtlijn (immuniteit en emissie).

Bepalingen EEC-Richtlijnen:

Laagspanningsrichtlijn  
93/68/EEC  
Elektromagnetische Compatibiliteitsrichtlijn  
89/336/EEC (met amendementen 92/31/EEC)

Uitgegeven door:

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**DEKLARASJON**  
(Direktivert 93/68/EEC og 89/336/EEC (92/31/EEC))

Vi,                    Ultrasun International B.V.  
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erklærer dette produktet i sammsvar og henhold til følgende  
dokumenter:

Normen:

Sikkerhet:       EN60335-1  
Sikkerhet:       IEC335-2-27 + HD272S2  
EMC:            EN55014  
EMC:            EN50082-1

disse etterfølger kravene til lav spennings direktivert (sikkerhet) og  
den Elektromagnetiske Kompatibilitets Normen (EMC).

EEC-Direktivert:

kravene til lav spennings direktivert  
93/68/EEC  
Elektromagnetiske Kompatibilitets Normen  
89/336/EEC (92/31/EEC)

Ustedt av:

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a little bit of paradise

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