

SunVision
BY ALISUN

PROFITABLE PERFECTION



User's manual SunVision V 250 XXL Series

serial number doorpanel: _____

serial number left panel: _____

serial number right panel: _____

serial number shaft: _____

serial number CBU: _____

Foreword

You have made an excellent choice in purchasing a SunVision V 250 XXL. The V 250 XXL is the result of extensive research and development and careful manufacture. The V 250 XXL is designed to be as user friendly as possible and, of course, comply fully with all applicable European safety requirements. We ask that you read these instructions carefully: For the safety of your guests and to ensure that you enjoy your V 250 XXL for as long as possible.

This manual provides the information you will need to assemble, program and maintain your V 250 XXL. This manual also contains useful general information for every studio owner.

Each V 250 XXL comes with an instruction poster. This explains to the user of the V 250 XXL how he or she can achieve safe and effective tanning with the V 250 XXL.

Serial numbers

Make a note of writing down the serial numbers of your SunVision V 250 XXL on the front page of this manual. You will need these when contacting your supplier with questions.

The serial numbers can be found on the stickers on both sides of the cardboard boxes.

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Introduction to the SunVision V 250 XXL

A SunVision V 250 XXL consists of a door, 2 side panels, a shaft, a bottom and a top frame and a CBU (central breeze unit). These and smaller components, such as handle bars, hinges and skirt-boards, must be assembled on site. The contemporary design of the SunVision V 250 XXL offers an amazing range of built in and optional features. This chapter is to give you an impression of what your new SunVision V 250 XXL has in store for you.

Colours

Basic colour for the V 250 XXL is Sapphire Black. The doorpanels can be delivered in Sapphire Black, Smashing Orange, Miracle Blue, Magic Purple or Fresh Green. The illuminated displays in the doorpanels can be delivered in Smashing Orange, Miracle Blue, Magic Purple or Fresh Green.

All SunVision tanning equipment has been thoroughly inspected and were granted the following seals of approval:

EMC, Key-mark (TÜV), CE mark

The SunVision tanning equipment belongs to the high-end of the professional market and is manufactured by Alisun Europe B.V. The SunVision V 250 XXL is a state of the art vertical tanner from the SunVision line and has an excellent price / quality ratio.

Options

In addition to the standard functions the studio operator has a choice of the following options:

- The AcScent Aroma system: to complete a relaxing and satisfying tanning session
- The AquaBreeze system: the ultimately refreshing touch of a summer breeze
- Full audio
- Face tanners: 3 x 250 watt S.E. CIT® FaceTan lamps
- Shoulder tanners: 2 x 250 watt S.E. CIT® ShoulderTan lamps
- 160 watt version with 48 x 160 watt SV XTR 200 Intensive lamps

Accessories:

The following accessories for the SunVision V 250 XXL are available from your distributor:

Reception control system (multiple) art. no.: 356260+337742
Reception control system (single) art. no.: 356270
Coin box art. no.: 355134
Coins art. no.: 355132

Tanning

The SunVision V 250 XXL gives a high tanning result. This is not only because of the powerful lamps but also, among other things, because of the effective cooling technology of the lamps and the high quality acrylic sheets which allow the maximum amount of UV light to radiate through and are extremely durable.

The powerful 250 watt S.E. CIT® FaceTan lamps are fitted with a special parabolic reflector in combination with extremely advanced filtering technology. This technology allows the maximum amount of UV-B to penetrate while eliminating undesirable heat. Naturally these face tanners are protected against unexpected overheating. Safety is a priority.

Cooling

Powerful flow fans ensure a long life and maximum output for the lamps. Because lamp and body cooling are separate from each other the SunVision V 250 XXL has a sublime cooling system. The warm air from the lamp cooling is discharged directly to the outside and does not pass along the body. The level of body cooling can be adjusted in increments and can therefore be set to each user's liking. The setting can be read on the control panel.

Control panel

The control panel of the SunVision V 250 XXL is located in the shaft at waist level, which makes it easy for everyone to read the display. The unit is simple to operate with the aid of the clear touch keys. Later chapters contain more information about the control panel.

Safety

The sound technology of the SunVision V 250 XXL ensures optimal reliability. Each SunVision V 250 XXL complies with the European standards and tests and is equipped with the Active Safety Monitoring System; a powerful processor that continuously monitors all main relays. In the event of a fault the lamps are immediately switched off and the cooling is automatically initiated.

Comfort

During the development of the SunVision V 250 XXL explicit consideration was given to user comfort. All V 250 XXLs come with a powerful body cooling unit, which ensures a pleasant and comfortable temperature during each tanning session. The handle bars, fitted to the top of the unit, make it most easy to allow the sides of the body to get tanned without any effort. Of course the earlier mentioned options take tanning with the SunVision V 250 XXL to the next level and make it an overwhelming wellness experience.

Studio control

The SunVision V 250 XXL is furnished with a separate coin box and reception control connection, in an easily accessible location. Naturally, with the option of installing the Alisun coin box and reception control which allows the reception full control over the sunbed. See the chapter 'COIN BOX AND RECEPTION CONTROL SYSTEM' for more information.

Quality

The SunVision V 250 XXL is manufactured from high-quality materials to give the maximum possible lifetime. It is based upon a sturdy aluminium construction with steel cross-bracing. The use of top quality plastics with special UV blockers gives the SunVision V 250 XXL's plastic parts high UV- stability.

Maintenance

Another very important point when developing the SunVision V 250 XXL was to make it service and maintenance friendly.

All lamps can simply be cleaned or replaced.

The relevant electrical parts are all cleverly located in the shaft: hidden from the view of the user yet easily accessible for a mechanic.

Even the CBU of the unit can easily be removed for servicing

Wear resistant and smooth materials are used, making the SunVision V 250 XXL maintenance friendly and easy to clean. The control panel plus LCD screen and touch keys are covered by a membrane, making dirty edges a thing of the past and cleaning simple.

Please refer to the chapter MAINTENANCE for more detailed information and instructions.

IMPORTANT: When setting up the V 250 XXL, make sure that the power plug in the wall socket stays within reach so you can easily disconnect the power in case of maintenance.

Preparation

The SunVision V 250 XXL is an advanced vertical tanner, which can provide years of trouble-free use. But first of all we would like to bring a number of points to your attention.

Foundation

For the correct functioning of the SunVision V 250 XXL it is important that the floor on which it stands is horizontal and can bear the weight of the sunbed. We recommend that the floor is made of a hard material such as parquet, laminate, linoleum or a synthetic cast floor. When choosing the floor covering, bear in mind that you will need to be able to clean the floor thoroughly on a regular basis.

Cabin dimensions

The recommended minimum cabin measurements for positioning the SunVision V 250 XXL are 130 x 140 x 250 cm (LxWxH). When a changing booth is added to the unit the dimensions are 204 x 144 x 250 cm (LxWxH). A drawing with measurements can be found at the end of this chapter.

Air extraction system

Please pay attention to the fact that the ventilation openings should not be blocked in any way.

Air supply

The air from the surrounding area is used to cool the lamps of the SunVision V 250 XXL. The body cooling also uses the air from the surrounding area. It is important that there is a sufficient supply of fresh air.

The rule of thumb normally applied is that no less than 3x the surface area of the air vent must be able to flow freely into the area to avoid draught problems. The surface size of the air intake in this case would need to be no less than 0,2 m².

IMPORTANT: The maximum air humidity of the atmosphere should not exceed 80%. The cabin temperature should not exceed 28 °C. We recommend an average ambient temperature of 23 °C.

Power supply

Before the sunbed can be put in place, a suitable power supply must be present in the cabin. The SunVision V 250 XXL requires a power supply of 230/400V 3N~50Hz and a wall socket CEE Form 32A 5-pole.



Plug



Wall socket fitting



Wall socket extension

Reception control and coin box

If a reception control system or a coin box is required the necessary wiring must be present before the sunbed is put in place. Connection information can be found in the chapter entitled 'COIN BOX AND RECEPTION CONTROL SYSTEM'.

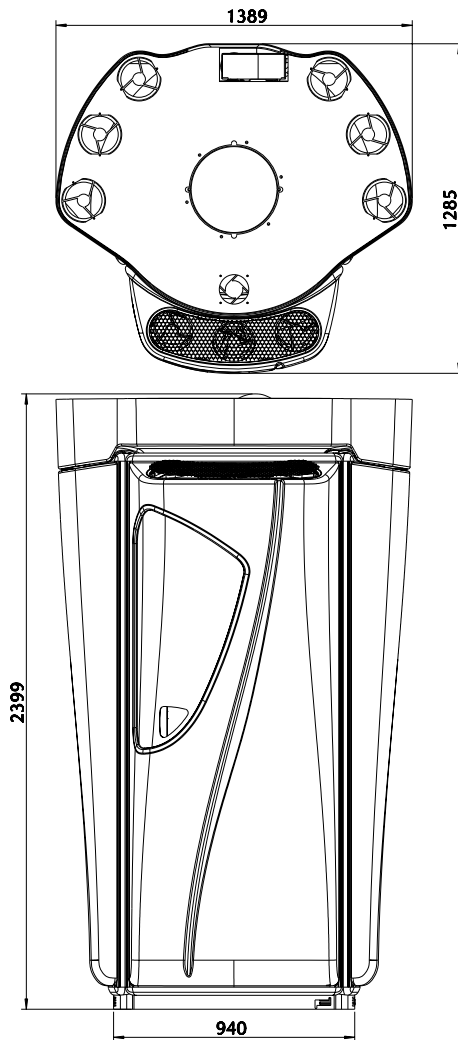
Failure to follow these instructions correctly will delay installation and may lead to the equipment being damaged during use.

Technical data

Weight in kilograms	350
Power in kW	11.6 (250 XXL 160W=8.7)
Minimum fuse (slow)	3x25A
Connection value	230/400V 3N~50Hz
Air displacement body cooler (m ³ /hour)	3780
Maximum dimensions in cm (L x W x H)	130 x 140 x 240
Minimum cabin dimensions in cm (L x W x H)	145 x 175 x 250

Packaging and positioning

Dimensions



Important: Please check on delivery if the SunVision V 250 XXL has been delivered complete and undamaged. If necessary open the boxes and check the contents for visible damage. **Inform the dispatcher immediately of any visible damage.**

The SV V 250 XXL is packed in 6 cardboard boxes.

The first box contains the bottom frame, top frame, skirt-boards, hinge parts and a set of assembly materials and tools. This set is described in more detail on page 8.

The second box contains the panel for the left hand side.

The third box contains the panel for the right hand side.

The fourth box contains the shaft. Depending on the options chosen, these have yet been integrated in the shaft.

The fifth box contains the doorpanel of the V 250 XXL.

The sixth box contains the CBU of the V 250 XXL. In case you opted for the additional shoulder tanners and/or audio, these options are already integrated in the CBU.

Serial numbers

All Alisun equipment is thoroughly tested during manufacture. Nevertheless it is possible that your V 250 XXL doesn't seem to work properly or not work at all. Should this be the case, we advise you to consult the chapter Troubleshooting first. If this chapter offers no satisfactory solution and you want to contact your dealer, then please make sure you have the serial numbers at hand. The serial numbers can be found on the stickers on the boxes.

Please keep this serial numbers for future reference

Surroundings and location where the V 250 XXL is set up

For successful, safe and hygienic tanning we have described what is required of the surroundings in the chapter 'PREPARATIONS'.

The V 250 XXL is delivered in separate parts and must be assembled where it is going to be used. Make sure that you allow enough room to lay out the separate components to make assembly easier.


Assembly - Getting started

Take the blister pack out of the first box (the box containing the bottom frame) and check it's contents against the overview on the this page. Per item you will find a number in the top right hand corner. These numbers are used, if necessary, in the assembly instructions to indicate the required part(s). Furthermore the article number, the quantity and name are given.

In the unfortunate event that the blisterpack is incomplete you may not be able to assemble your V 250 XXL, so please check it's contents carefully.


Apart from the assembly parts and tools which are included, make sure to have a flat and a crosshead screwdriver as well as a carpenter's level at hand.

1




370520	4x
Socket-head bolt M8x12	

2




370521	18x
Socket-head bolt M8x16	

3




370524	11x
Socket-head bolt M8x30	

4




370604	9x
Nut M8	

5




337698	6x
Screw cap	

6




337197	2x
Pipe plug	

7




370004	3x
Tapping screw 2.9x19	

8




370116	10x
Tapping screw 4.8x13	

9




370130	12x
Tapping screw 4.8x13	

10




370039	6x
Self drilling screw 3.5x25	

11




370644	13x
Washer M8	

12




370654	2x
Lock washer M8	

13




370715	16x
Fender washer M8x24x2	

14




336012	5x
Filler	

15



337694	6x
Rimmed ring	

16




337664	2x
Nylon bearing	

17




337250	7x
Adj. feet M8x30	

18




371000	1x
Hex key 6mm	

19



371011	1x
Open-end spanner 13/17mm	

20



337900	2x
UV goggles	

Assembly

The following part gives a detailed description of the actual assembly of the V 250 XXL. In this part attention is given to both the horizontal and vertical assembly. Because these assembly methods are identical from a certain step onward they are merged in the same chapter. Of course it is clearly indicated from where on there is no more difference between the horizontal and the vertical assembly. Both methods are equally successful and the choice is just a matter of personal preference.

The second part describes the connection of the various optional features

If you need to set up a dressing booth as well, part 3 offers you a detailed description of the assembly of the booth

Assembling the V 250 XXL

As said the choice between horizontal or vertical assembly is a matter of personal preference. Although the assembly can be done by two persons, sometimes it helps to have a third person around to lend a hand.

We advise you to read through this entire chapter before beginning with the actual assembly. Please make sure you understand what you are required to do with each step.

Please bear in mind that the panels of the V 250 XXL are heavy. Lift the panels carefully and in the correct manner from the boxes. Ask assistance if necessary.

The horizontal assembly is covered by step 1 till step 13.

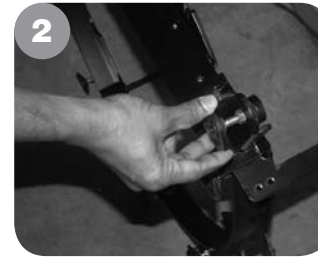
The vertical assembly is covered by step 14 till step 19.

From step 20 onward the procedure for both assembly methods is identical

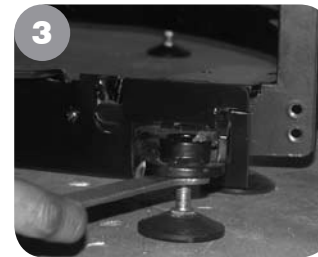


Horizontal assembly

Remove the bottom frame from the box and mount the front skirt-board with two of the black screws.



Put a nut on each of the seven adjustable feet until halfway the screw-thread. Screw the seven adjustable feet into the bottom frame for as far as they go. Now place the frame where the unit is to stand eventually.



Level the frame using the open-end spanner and a carpenter's level. The reason to do this at this stage of the assembly procedure, is that, due to its weight, the complete unit is far less easy to level. However, make sure the frame is at least 28 mm from the floor, otherwise the skirtboards cannot be assembled.



Open the box with the left panel. Fold back the box and the plastic wrapping. Before the panel can be fitted on the frame, the acrylic sheet and two lamps on both the left and the right side of the panel must be removed.



Lift the panel on one side and remove the E40 strip which keeps the acrylic sheet in place. Use a flat screwdriver for some extra leverage. Please apply the screwdriver gently, to avoid scratches or worse.



Lift the panel on the other side and remove the E40 strip on the other side. Now it's time to remove the acrylic sheet. The easiest way to do this is by pushing with the thumb halfway the sheet, slightly off centre. Now the edge of the sheet will lift a bit and you can grasp it with your other hand. Pull the sheet toward you. The edge of the sheet is sharp, so this should be done carefully.



Once you have successfully removed the acrylic sheet, take out two lamps on both the left hand side and the right hand side of the panel. The panel is now ready to be fitted onto the bottom frame.



Put some protective material on the floor, for example the cardboard lid of one of the boxes and place the panel on it. One person will hold the panel, while the other pushes the bottom frame into the slots in the bottom of the panel.



Connect the bottom frame to the panel with two M8x16 socket head bolts and the M8x24x2 washers. Of course this must be done for both bottom sides of the panel. Tighten the bolts with the hexagonal key.

Repeat the steps 3 till 8 for the right hand side panel.



Take the shaft out of the third box and slide it between the two panels. Although the shaft does not need to be attached to the bottom frame, please make sure it goes all the way down to the frame, otherwise the top frame will not fit.



Take the top frame out of its box and slide it into the slots at the top of the panels, similar to the way the bottom frame was done.



First attach the top frame to the panels using the M8x16 socket head bolts and M8x24x2 washers. See also step 8.



To attach the shaft to the top frame two M8x16 socket head bolts are inserted from the top and secured on the inside with a lock washer and a M8 nut each.

At this point the unit must be placed in upright position for further assembly. The unit is rather heavy already and when tilting the unit you should be most careful with the adjustable feet at the front of the bottom frame. These two feet are neither intended to support the full weight of the unit nor to serve as a pivoting point.

Vertical assembly

The vertical assembly is for the main part identical to the horizontal assembly. As explained in the text below, for this way of assembling the unit the help of a third person will come in very handy.



14

Steps 1 till 7 are the same as for the horizontal assembly.

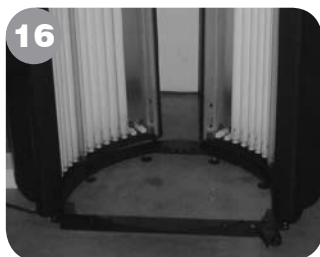
Instead of pushing the bottom frame into the panel, the panel must now be guided to the correct location over the frame and gently lowered onto it.



15

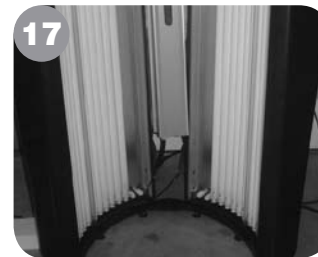
While fastening the panel to the frame to the panel with the M8 x 16 socket head bolts and M8x24x2 washers, someone must hold the panel upright.

The unit will be instable until the moment when the top frame is attached to the inside of the panels and to the shaft. Till that time the assistance of a third person is advised.



16

Prepare and place the right hand side panel and attach it to the bottom frame. This panel must also be held in a stable position until the top frame is in place.



17

Placing the shaft should preferably be done by sliding it down from the top of the panels down to the bottom. When the headroom is not sufficient, it may prove to be easier to let panels lean out a bit and thus slightly increase the width of the gutter. In this fashion the shaft can be inserted at a lower point. Be very careful though, that you don't distort the bottom frame in the process



18

While someone holds the two panels and the shaft in position, another person can now place the top frame. Position the top frame over the shaft and the two panels and lower it into the slots of the two panels. The unit is now stable but still needs to be secured.



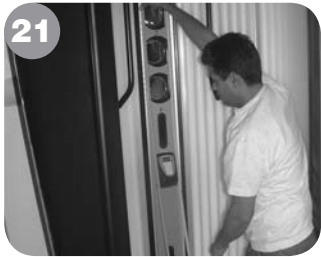
19

First attach the top frame to the panels using the M8x16 socket head bolts and M8x24x2 washers.

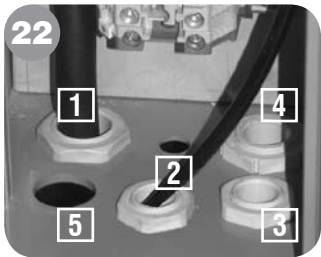


20

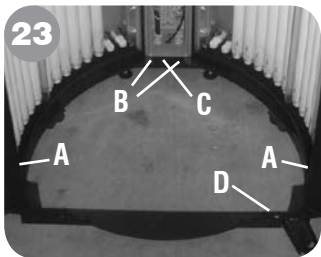
To attach the shaft to the top frame two M8 x 16 socket head bolts are inserted from the top and secured on the inside with a lock washer and an M8 nut each.



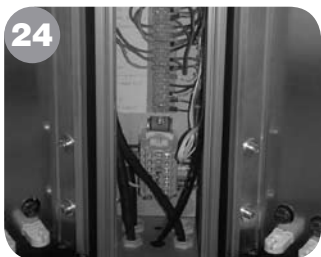
To connect the panels to the shaft, the front of the shaft, which is held in position by two E40 strips, must be removed. Take the strips out either by hand or with the aid of a screwdriver. The technique is identical to that applied to the strips of the panels. The control unit is connected to the circuit board in the shaft with a data cable (telephone cable). This cable can easily be disconnected.



Once the front of the shaft has been removed you will see five holes in the bottom of the shaft. The white sockets are used to keep the wire in position once it has been fed through the hole. Corresponding with the numbers in the picture these holes are:
1. Main supply; 2. Left panel; 3. Right panel; 4. Door panel; 5. Cabling and tubes for several optional features



In the bottom frame there are five openings for the panel cabling. Feed the wires through the holes "A" from the outside to the inside. Next feed the wires through the holes "B". (the holes "C" and "D" are for the cable of the door panel) After that, from the back of the shaft, you can feed the wire for the left and the right panel through the respective holes 2 and 3 in the shaft. It might be necessary to loosen the white sockets a bit before the wire can be fed through it.



The wires of the panels must be connected to the circuit board near the bottom of the shaft. The yellow sticker next to the plastic connector shows which wire goes where (also see fig. 1 on page 16) The image on the right shows the connection of the left panel.



After both panels have been connected to the connector in the shaft. The lamps, acrylic sheets and strips can be put back into the panels. First put the lamps back in by placing them in the slots and turning them about 90°. A slight click tells you a lamp is back in position. When the lamp is in place, the label on the lamp is must be on the frontside.



Gently guide the acrylic sheet through the rail at the top and the bottom of the panel. It is a matter of careful manoeuvring and not so much a matter of applying force. Halfway the panel there is a ridge. You may have to lift the sheet a bit to get past this obstacle.



Put the E40 strips back. Start at the top and step by step click it back in place until you are halfway down the panel. Then, by bending it a bit, you put the bottom end in position and work your way up to where you were.

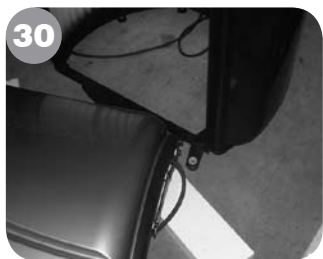
With the lamps, acrylic sheets and strips back in position, it's time to place the doorpanel.



Both the bottom and the top frame have a piece that sticks out and are the unit's halves of the hinges. Both of these pieces have a space where you must fit in a nylon bearing. Once this is done, open the box with the door panel and move the plastic wrapping aside.



Attach the bottom hinge part to the door - this is the part with three holes – the fillers go between the bottom part of the door and the hinge. Secure it with a M8 x 30 bolt and a washer. Place all fillers, washers and bolts before tightening them. While tightening the bolts, please make sure the fillers remain in the correct position.



Prepare the floorspace close to unit by putting pieces of protective material, such as cardboard or polystyrene on the floor and place the doorpanel on it. The position of the doorpanel relative to the unit should be as in the image. The polystyrene blocks or cardboard have, apart from protection, the additional function of providing extra leverage when lifting the door.



While one person lifts the top end of the door, another person guides the two parts of the bottom hinge toward each other and makes sure they stay connected during the lifting of the door.



Once the doorpanel has been lifted one person keeps it in position while the other attaches the top hinge part of the door.



First hang the last hinge part in the nylon bearing. Lay a filler on the door and secure the hinge with a M8 x 30 bolt and a washer. Place all fillers, washers and bolts before tightening them. While tightening the bolts, please make sure the fillers remain in the correct position.



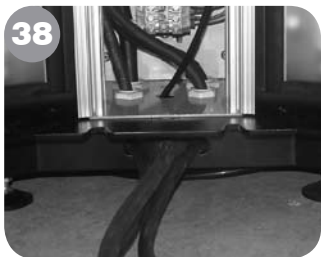
In order to place the handle bar you must remove the E40 strip of the door panel on the right first. Prefab holes indicate where the handle bar has to go. Attach it with the self drilling screws. The washer keeps the screw separate from the handle bar and the small black cap is to cover the screw.



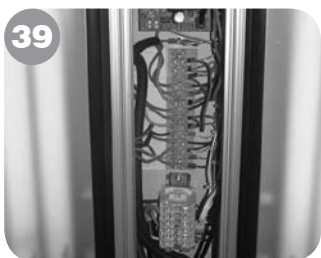
Take the strip you took out in the previous step and stick in the top of the panel on the side where you just placed the handle bar. As you have to cut this strip to the correct length, hold it in position and determine where it should be cut. After you cut the strip for the top part, click it in position and use the remainder for the bottom part.



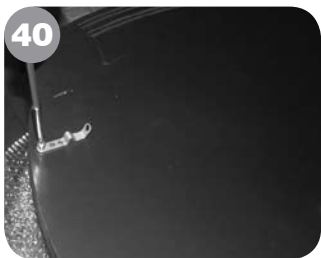
To connect the door panel to the main supply you feed the cable through the hole "D" in the front skirt and through the central hole "C" in the bottom of the frame (see also step 23).



38 After that, from the back of the unit, feed the cable through hole "4" (see step 22) in the bottom of the shaft. It might be necessary to loosen the white socket a bit before the cable can be fed through it.



39 The wires of the panel must be connected to the circuit board near the bottom of the shaft. (In case Audio was taken as an option the audio circuit board must be removed first) The yellow sticker next to the plastic connector shows which wire goes where (also see fig. 1 on page 16) The image on the left shows the situation when all panels are connected.



40 Unpack the floor board and attach the four place holders with the 12 4.8x13 TORX screws. All four placeholders must point in the same direction.



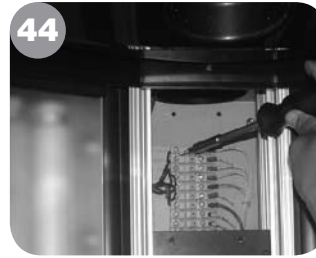
41 Carefully put the floor board in position. Secure the floorboard to the front skirt-board with two of the black screws, using the small upright piece of the placeholders.



42 Before placing the CBU the support bars must be placed. Put in the plugs in the opening at the bottom of the bars and attach them with M8x12 bolts to the top frame.



43 Unpack the CBU. Assembling it is very easy. Just lift it and place it on top of the top frame. It's been shaped in such a way that it will fit in only one way on top of the frame. With M8 x 30 bolts the hat can be attached to the top of the side panels. Keep in mind that the plug with the connection for the CBU, speakers and lights (including the optional shoulder tanners) ends up in the shaft through the opening in the top of it.



44 Plug in the plug into the plastic connector and secure it with two tapping screws 3 x 19. Right before you lower the CBU into position, make sure you push the socket with the wires into the corner of the top of the shaft.



45 If no further options are to be installed, the front of the shaft can be placed back and locked in position with the E40 strips. If the data cable was disconnected in step 22, it must be reconnected before putting the front of the shaft back in place.



Attach the skirt-boards to the bottom frame with the black tapping screws 4.8 x 13.



Near the top hinge a door stopper can be placed. Screw the bolt with the nut into the placeholder. The further the bolt is screwed into the placeholder the further the door can be opened and vice versa. Once the ideal position is set, please make sure the nut is tightened.

The unit is now ready to be programmed

Optional features - Face tanners and shoulder tanners

Face and shoulder tanners, as an option, are factory installed



Optional features - Audio

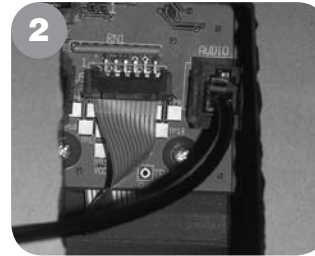
In this section it is assumed that the audio option was ordered as an option and therefore factory installed. When the audio option is installed at a later stage the circuit board must be mounted to the shaft and the brown and blue wire as well as the green connector are integrated in the wire beam and, on delivery, protected by plastic caps to prevent short circuiting. Remove these caps and connect the wires to the circuit board.

Near the bottom of the shaft there's an additional circuit board to facilitate the audio option. On the top goes a blue and a brown wire which stem from the main supply.

The green connector near the bottom is for the incoming and outgoing audio signal. Connect the Left + and - as well as Right + and - to the green connector according to the image on the left. This must be done in this order, otherwise the speakers



R+R- L+L- L+L- R+R-



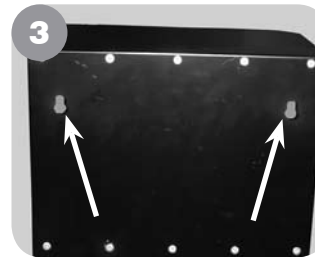
will not work and it may damage your audio equipment.

A data cable must be plugged into the side of the black box of the audio circuit board on one end and the other part of the cable is plugged into the back of the control unit in the slot labeled 'Audio'.

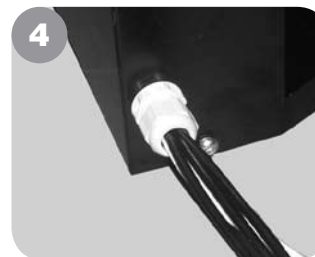
Optional features - Aroma and or Breeze

All wiring and tubes for both Aroma and Breeze must enter the shaft through hole 5 (see step 22). If Breeze is one of the chosen options the total of nozzles, valves and prints - the Breeze center - has already been factory installed. All that needs to be done is connect the supply and the pressure and overflow tubes (in case of Breeze) and the wires which communicate with the external Breeze and Aroma unit.

Please note that the external AquaBreeze and Aroma supply unit should never be mounted higher than the lowest AquaBreeze nozzle in the shaft. Otherwise the overflow will not work and eventually damage the Breeze center.



The unit can either be placed on the floor or be mounted to the wall using the two slots in the back of the unit



From the side of the supply unit comes a bundle of three tubes and two cables. The tubes are labeled as 'Aroma', 'Breeze Supply' and Breeze Retour'. One of the cables is an electrical wire, the other one is a data cable.



Both the data cable and the Aroma tube must be led up the shaft through the socket on the right.



Approximately halfway the shaft there is a ledge with a plug in it and, next to it there is a sticker which says 'Aroma'. Slide the Aroma tube like a sleeve over the barbed plug.



Click the data cable into the back of the control panel. Use the upper left slot



From the bottom of the shaft there are two labeled tubes visible with a grey connector at the end. Take the tubes from the supply center and connect them to the corresponding tube coming from the shaft. Press the tube firmly into the grey connector and turn it tight by hand.



The last step is feeding the cable from the external Aroma and Breeze unit through hole "5" in the bottom of the shaft and connect it to the four corresponding inlets of the plastic connector to which you connected the panels earlier on during the assembly of the V 250 XXL. See fig. 1 for further details.

Place the front of the shaft as described in step 45

Stickers in shaft

Optional Aroma/Breeze	Black P	⊗	Cool Breeze	Black 6 Shoulder	⊗
	Grey N	⊗		Black 5 Spot	⊗
	Yellow Green	⊕		Black 4 B cooling	⊗
	Brown P	⊗		Black 3 Cooling	⊗
Panel	Brown P Lamps	⊗	Yellow Green	⊕	
	Blue N	⊗	Black 2 N	⊗	
	Yellow Green	⊕	Black 1 N	⊗	
Panel	Brown P Lamps	⊗	Audio	L out +	⊗
	Blue N	⊗		L out -	⊗
	Yellow Green	⊕		R out +	⊗
Door	Black P Cooling	⊗		R out -	⊗
	Brown P Lamps	⊗			
	Blue N	⊗			
	Yellow Green	⊕			
	Grey P Display	⊗			

Fig.1

Figure 1 is the sticker next to the connector near the bottom of the shaft

Figure 2 is the sticker next to the connector near the top of the shaft

Fig.2

Assembly of the dressing cabin



The dressing cabin consists of 4 side panels and one door panel. Even though the door can be put in three different positions, the position described in this manual proves to be the most practical for the V 250 XXL. Before you start with the assembly, remove the left and the right skirt-boards from the bottom frame of the V 250 XXL.



All panels are connected by tongue and groove connections as shown in the image.



Take the first panel out of the box. Fix the fastening bracket to the bottom of the panel (right hand side) with 3 self drilling screws 4.2 x 13 and screw two adjustable feet into each end of the bottom of the panel.

Attach the other bracket to the top of the panel. This bracket mirrors the one you just attached to the bottom of the panel



Place the panel into position and fasten it to the bottom frame of the V 250 XXL by attaching the bracket with a socket-head screw M8x25 and a washer M8.



Lift up the "hat" of the V 250 XXL a few inches and attach the top bracket with a socket-head screw M8x25 and a washer M8.

Level this panel by adjusting the feet before continuing. If you level each panel after adding it to the changing cabin, the assembly of the next panel goes much smoother.



Take the next panel out of the box and screw one adjustable foot in the right hand bottom side of the panel.

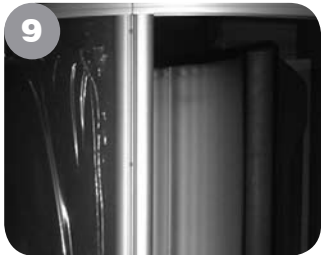


Connect the panel to the previous one by clicking them together and secure it with 8 tapping screws 4.2x13 into the profiles (4 on the outside, 4 on the inside). There are two kind of grooves in the profile, the screws should be placed in the ribbed one.

Repeat the above steps for the third panel.



Attaching the door panel to the other panels is done the same way as the other panels. The door panel, however, has a doorstep so there is no adjustable foot required here. The doorstep can be pushed in or pulled out to adjust the height of the door panel. The opening direction of the door can be switched, but this should be done before assembling it. At the end of this chapter you'll find a description of how to switch the opening direction of the door.



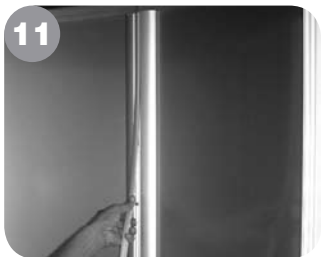
For the last panel the bottom and top bracket and the adjustable feet must be attached to the panel first. Also see step 3.

Repeat step 4 and 5 for the last panel. Once the panel is in position click it into the groove of the doorpanel and use 8 tapping screws 4.2x13 to connect it.

Screw the two skirt-boards, that were removed in step 1, back onto the unit.



The door handles can now be attached to the inside and outside with an electric screwdriver using 6x self-drilling screws 3.5x25 (22). Also attach the clothing hooks with the tapping screws 4.2x13 (23).



Place the plastic strips on the inside and the outside of the changing cabin by firmly pushing them into the profiles.

Cut the strips to length if necessary.

The changing cabin is now ready to be used.

If the appliance came with the optional accessory set containing mirror, shelf and place for a coin box, it can now be installed.

Take the set out of the box. Loosen the 4 screws and first remove the mirror and the shelf.



The coin box can now be fixed at the bottom to the bracket using four nuts and bolts.

Suspend the entire unit from the upper edge of the changing cabin by the two brackets.

Cut the plastic strip that was supplied to size.



Next secure the middle bracket into the grooved channel with a plate screw 4.2x13.

At this point the wires of the coin box can be eased through to the shaft and can be connected following the instructions in the shaft. Also see page 20 with the instructions for connecting the coin box.



The mirror and the shelf can now be fixed back onto the bracket and secured in place with the four accompanying screws.

The accessory set is now fully mounted.



The direction in which the door opens can be altered if desired.

First lay the door panel on the ground and slide the two stays with the doorstep out of the profiles.



Next unscrew the three screws holding the hinge plate and remove it.

Now carefully take the door out of the panel, turn the door round and place it against the other side with the hinge point lined up with the top of the top profile.



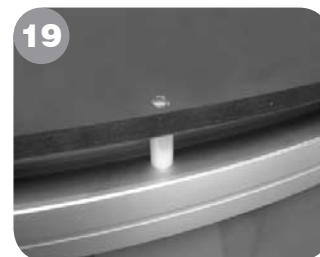
Take the plastic bus out of the hinge plate, turn the plate round the other way and press the bundle back into the other side.

Attach the plate to the other side of the profile with the three screws, taking care that the hinge point of the door is seated properly in the plastic bus. Slide the doorstep with the two stays back into the profiles and position the door panel as previously described.



The changing cabin can be supplied with a roof. Once the changing cabin has been completely assembled the roof can be mounted. Carefully place the roof on top of the changing cabin.

Lift the roof up slightly and place the plastic spacers between the roof and the top profile of the changing cabin. Make sure that the spacers are accurately lined up with the small holes in the roof.



Using an electric screwdriver fasten the 4 self-drilling screws 3.5x50 right through the roof and the spacers into the aluminium top profile.

Feed the wires for the lighting and the speakers through to the shaft and connect them there to the plug which goes into the connector on the circuit board near the top of the shaft.

Coin box and reception control system

A coinbox – connected to the control circuit board of the V 250 XXL – controls the software of the V 250 XXL. A separate power supply must be provided for the coinbox. An Alisun reception control system does draw its power supply from the V 250 XXL.

The correct functioning of the coinbox in combination with the V 250 requires a potential free (= voltage free) contact with the coinbox. Alisun has developed a coinbox interface so that coinboxes that have no potential free contact can be used. For more information please contact your dealer.

If a reception control system or coinbox is installed, you select the required operating mode during programming. There are four options for the operating mode:

- 0 = stand alone (the manufacturer's setting)
- 1 = coinbox – with timer mode
- 2 = coinbox – with pulse outlet
- 3 = reception control system

The 'PROGRAMMING' chapter describes the programming of the SunVision V 250 for these options. How to operate the unit is described in the chapter entitled 'OPERATION', both in the 'INSTRUCTIONS FOR USE' section.

Connecting the reception control system

IMPORTANT: Always disconnect the power before performing maintenance or servicing on the V 250 XXL.

Remove the front of the shaft. The circuit board near the bottom of the shaft has two connectors for the coinbox (1) and the reception control system (2)

To get the cables from the coinbox and the reception control to the shaft, they must be led through hole five in the bottom of the shaft (see image 23 on page 12)

In the image the connection for the reception control system has been numbered from the top 3, 2 and 1.

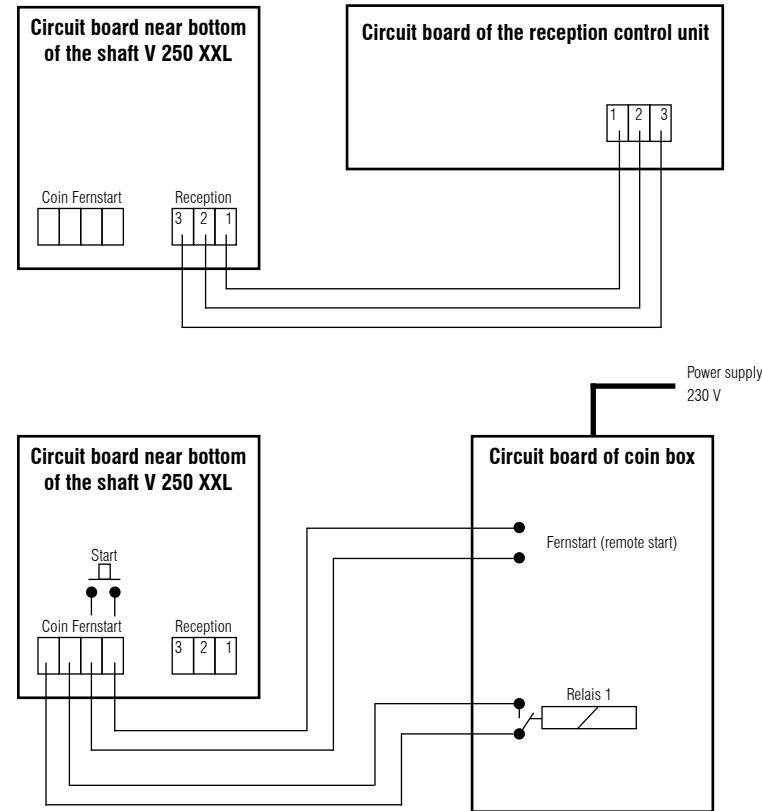
In the box for the reception control system you will see 3 poles numbered from left to right 1, 2 and 3.

Connect the cables so that number 1 on the reception control system is connected to number 1 on the circuit board. Similarly, connect the other terminals with the corresponding number, i.e. 2 with 2 and 3 with 3.

Connecting the coinbox

On the printed circuit board of the SunVision 250 the numbers 1 and 2 have been reserved for the connection of a coinbox and the numbers 3 and 4 for the remote start.

Connect the cables to the poles of the potential free contact in the coinbox.



Programming

For optimal use of the V 250 XXL some functions can be adjusted according to wish. The 'programming' is relatively simple but we recommend that considerable care is taken to ensure the correct functioning of the sun shower. The sun shower comes with a number of functions with standard factory settings which can be altered. It is advisable that you make up a list of your preferences before you start programming. Some functions will be explained in 'OPERATIONS'.

Configuration Main Menu

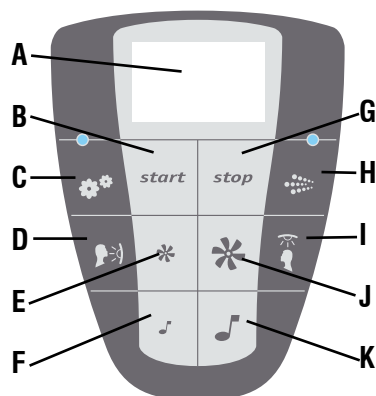


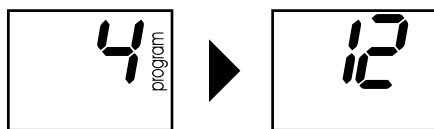
Fig. 1 Control panel SunVision V 250 XXL

The main menu in the Configuration mode can be reached from the Stand By mode by holding down buttons 'E' and 'J' simultaneously for 10 seconds. The Configuration Main Menu allows you to program certain function settings (see 'Configuration Programming Menu') and also gives you the choice of taking an Hour Counter reading (see 'Configuration Counter Menu' in the chapter 'READING THE COUNTER DATA'). The display will show 'Pr' or 'Cn' with the word 'program'.

'Cn' (counters) is the first visible option in the Configuration Main Menu. Pressing button 'E' (Fig. 1) will take you to 'Pr' (programming). Your selection is confirmed by pressing the START-button (B).

Configuration Programming Menu

After you have confirmed your choice 'Pr' you are automatically taken to the first function (see 'ADJUSTABLE FUNCTIONS' below). The display now shows the number of the function and the setting for that function in turns (every second) (see the example for function 4 with the setting 12). By pressing button 'J' or button 'E' (Fig. 1) you can increase or decrease the value of the function's setting. When adjusting the value of the setting the display stops switching between the function itself and the setting and only displays the value of the setting. Press the START-button 'B' every time you wish to move on to the next function.



NB: If during 2 minutes no instructions have been entered, the Programming Menu is automatically exits without saving the data.

Adjustable functions

Function 1 - Operating mode

- 0 Stand-alone mode, no coin box..... factory setting
- 1 Coin box with timer mode
- 2 Coin box with pulse output mode
- 3 Reception control mode

Function 2 - Audio volume

- 0 Minimum
- 5 factory setting
- 32 Maximum

Function 3 - Maximum tanning time

- 5 Maximum tanning time in minutes (lowest)
- 30 Maximum tanning time in minutes (highest)..... factory setting

Function 4 - Starting time

- 5 Starting time in Stand-alone mode, in minutes (lowest)
- 12 Starting time in Stand-alone mode, in minutes factory setting
- 30 Starting time in Stand-alone mode, in minutes (highest)

Function 5 - Follow-on time

- 6 Units of 30 seconds (lowest)..... factory setting
- 10 Units of 30 seconds (highest)

Function 6 - Coin time

- 1 Time per coin, pulse mode, in minutes (lowest)
- 5 Time per coin, pulse mode, in minutes..... factory setting
- 60 Time per coin, pulse mode, in minutes (highest)

Function 7 - Undressing time

- 0 Units of 30 seconds (lowest = off) factory setting
- 9 Units of 30 seconds (highest)

Function 8 - Not Applicable

Function 9 - Low setting Body Cooler (0-9)

- 0 Off
- 3 Low setting factory setting
- 9 Highest

Function 10 - Middle setting Body Cooler (0-9)

- 0 Off
- 5 Middle setting..... factory setting
- 9 Highest

Function 11 - High setting Body Cooler (0-9)

- 0 Off
- 9 High setting (highest) factory setting

Function 12 - Not Applicable**Function 13 - Not Applicable****Function 14 - Delay start of Cooling**

- 0 Units of 30 seconds (lowest = off) factory setting
- 3 Units of 30 seconds (highest)

Function 15 - Aroma interval

- 1 Units of 30 seconds (lowest)
- 6 Units of 30 seconds factory setting
- 99 Units of 30 seconds (highest)

Function 16 - Aroma stand by interval

- 0 Units of 30 seconds factory setting
- 99 Units of 30 seconds (highest)

Function 17 - AquaBreeze interval

- 1 Units of 30 seconds (lowest)
- 6 Units of 30 seconds factory setting
- 99 Units of 30 seconds (highest)

Function 18 - Shoulder tanner symbol in display

- 0 Off
- 1 On factory setting

Function 19 - Face tanner symbol in display

- 0 Off
- 1 On factory setting

Function 20 - Aroma operation during stand-by

- 0 Off factory setting
- 1 On

Configuration Save Menu

The last programming function is followed by the 'Configuration Save Menu'. The words 'reset', 'cancel', 'save' and 'program' are shown consecutively when button 'E' (scroll back) is pressed or when button 'J' (scroll forward) is pressed.

Pressing START-button 'B' within two minutes will confirm your selection (Fig. 1). If no selection has been confirmed after two minutes, the Configuration Save Menu is exited without the changes being saved (compare with the 'cancel' selection).

reset

By selecting 'reset' all the settings (except for the counter settings) revert to the factory settings and the Configuration Save Menu is exited.

cancel

Selecting 'cancel' results in the Configuration Save Menu being exited without any changes being applied. The sun shower will return to Stand By mode.

save

By selecting 'save' all the changes that were made will be saved and the Configuration Save Menu is exited.

program

By selecting 'program' you will return to the Configuration Main Menu without any data being saved.

Operation

Once the user has entered the SunVision V 250 XXL, the door can be closed. The control panel is located on waist level in the shaft. The material and printing of the control panel are designed to allow the user to easily read the text and symbols while wearing UV goggles. The control panel is covered with a clear membrane that makes it easy to clean and prevents dirty edges.

Description of the control panel

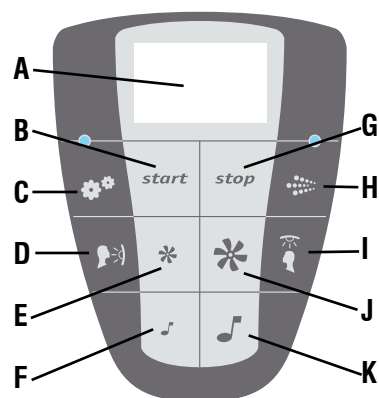


Fig. 1 Control panel SunVision V 250 XXL

On the control panel the following buttons can be seen from top to bottom (as shown):

- A Display
- B Start
- C Aroma
- D Face tanner on/off
- E Reduce body cooling
- F Reduce sound volume
- G Off
- H AquaBreeze
- I Shoulder tanners on/off
- J increase body cooling
- K increase sound volume

Display (A)

The display shows the tanning time in minutes, rounded off. The last minute is counted down in seconds. More information is provided in the chapter 'PROGRAMMING'.

START-button (B)

Stand alone mode

If your SunVision V 250 XXL has been programmed in the 'stand alone mode' (code 0, see 'PROGRAMMING', function 1) the following operating instructions should be followed:

The user presses the START button (B). The display now shows the tanning time in minutes. Every time the START button (B) is pressed, the tanning time is reduced by one minute. This can be repeated until the desired tanning time has been reached. The tanning time cannot be increased.

Coin box mode

If your V 250 XXL has been programmed in the 'Coin box with timer mode' (code 1, see 'PROGRAMMING', function 1) the following operating instructions should be followed for the sunbed:

The user inserts a number of coins into the coin box and the V 250 XXL will start up. '00' will appear on the display and the tanning time will increase to the value of the coins inserted. The coin box will switch the V 250 XXL off when the tanning time has run out. If the STOP-button (G) on the control panel is pressed during tanning, the V 250 XXL will switch over to pause mode for 30 seconds. If the START button (B) is pressed within these 30 seconds, the V 250 XXL will resume the tanning session. After the 30 seconds the V 250 XXL will stop and switch over to after-cooling.

If your V 250 XXL has been programmed in the 'Coin box with pulse output mode' (code 2, see 'PROGRAMMING', function 1) the following operating instructions should be followed for the sunbed:

The user inserts a number of coins into the coin box while the tanning time shown on the display increases according to the value of the coins inserted. Each time a coin is inserted a beep will be heard. Coins can be inserted until the maximum tanning time has been reached. If coins are inserted after the maximum tanning time has been reached, three beeps will be heard each time.

15 Seconds after the last coin has been inserted the undressing time will start. The undressing time is counted down on the control panel display of the sunbed and the start button can be pressed. After the undressing time has finished or after pressing the START button (B), the V 250 XXL will start. Inserting coins during tanning has no effect. If the STOP button (G) on the control panel is pressed during tanning, the V 250 XXL will switch over to pause mode. If the START button (B) is pressed within 30 seconds, the V 250 XXL will resume the tanning session. After the 30 seconds the V 250 XXL will stop and switch over to after-cooling.

Reception control mode

If your V 250 XXL has been programmed in the 'reception control mode' (code 3, see 'PROGRAMMING', function 1), the V 250 XXL can be started in two different ways:

When start is pressed at reception, the V 250 XXL emits three beeps. These beeps indicate that the undressing time has begun. The reception control display indicates the number of tanning minutes. If set, the undressing time is shown on the V 250 XXL display and counts down to 0. The user undresses, steps into the V 250 XXL and presses the START button (a). This interrupts the remaining undressing time and the V 250 XXL switches on straight away. When the undressing time has run out, the V 250

XXL will come on, regardless of whether the user is prepared for it or not.

At that point the tanning time can be seen counting down in minutes (the last minute in seconds) on the reception display. By pressing the START button (B) repeatedly either at reception or on the V 250 XXL, the tanning time is decreased by 1 minute each time. If STOP is pressed at reception, the V 250 XXL switches off.

If the sun shower has not been started at reception, the user can indicate readiness by pressing the START-button (B). Three beeps will be heard at reception. The V 250 XXL display and the reception control display will start flashing with the tanning time that has been set. Reception can switch on the V 250 XXL by pressing the START button and, if necessary, can then decrease the tanning time in one-minute steps by holding down the start button. Increasing the tanning time is not possible.

If someone presses the STOP-button at the reception during tanning, the V 250 XXL will switch off. If the STOP-button (G) on the control panel is pressed during tanning, the V 250 XXL will switch over to pause mode for 30 seconds. If the START button (G) is pressed within these 30 seconds, the V 250 XXL will resume the tanning session. After 30 seconds the V 250 XXL will stop and switch over to after-cooling.

STOP-button (G)

The STOP button (G) allows the user to put the V 250 XXL into pause mode. The body lamps will switch off. The remaining tanning time on the display continues to 0. The pause mode will last for 30 seconds.

If the user presses the START-button (B) within these 30 seconds, the pause mode is cancelled and the tanning time will continue from the point before the pause. This makes it possible for the user to continue the tanning session after accidentally pressing the STOP button (G).

If the START button (G) is not pressed again within the 30 second pause, the V 250 XXL will switch itself off. The fans of the cooling system will continue to provide after-cooling so that the V 250 XXL is quickly ready for the next user.

Adjusting the level of body cooling (E/J)

The level of body cooling can be adjusted from the control panel.

Pressing the button with the large fan symbol (J) makes the body cooling blow harder. By pressing the button with the small fan symbol (E) the level of body cooling is reduced. When either one of the fan buttons is pressed the cooling level is shown on the display by an indicator. There are 4 possible settings: off, low, medium and high.

Adjusting the sound volume (F/K)

The sound volume can be adjusted from the control panel.

Pressing the button with the large musical note (K) will increase the volume while pressing the button with the small musical note reduces it. When either one of the musical note buttons is pressed the volume level is shown on the display by an indicator. There are 4 possible settings: off, low, medium and high.

Face tanners on/off (D)

Pushing this button will turn the face tanners on or off. If the face tanner symbol is displayed the tanners are on. It is not possible to switch the face tanners immediately back on after you've turned them off. Due to the nature of the lamps they need to cool down till below a certain temperature first. Until the face tanners are ready to start up again, the face tanner symbol on the display keeps blinking.

AquaBreeze (H)

Pushing this button will release an AquaBreeze shot. A shot has a duration of 3 seconds.

The time which goes by before a user can give a new shot (interval) is adjustable (please refer to 'PROGRAMMING', function 17). This interval has a standard setting of 3 minutes (6 units of 30 seconds). The blue LED light next to the button shows when the AquaBreeze system is working (the light is permanently on) or is in stand-by mode (no light) or is inoperable (blinking light).

When the AquaBreeze is inoperable you might need to check the fluid container for its contents. The AquaBreeze has been programmed to give 2000 shots of 15 seconds each.

Aroma (C)

Pushing this button will release an Aroma shot. A shot has a duration of 15 seconds.

The time which goes by before a user can give a new shot (interval) is adjustable (please refer to 'PROGRAMMING', function 15). This interval has a standard setting of 3 minutes (6 units of 30 seconds). The blue LED light next to the button shows when the Aroma system is working (the light is permanently on) or is in stand-by mode (no light) or is inoperable (blinking light). When the Aroma is inoperable you might need to check the Aroma tank for its contents. The Aroma has been programmed to give 2000 shots of 15 seconds each. If you want to replace the scent by another one, you need to clean the 500 ml tank at least two times in a dishwasher before filling it again. Be sure to reset the counter after refilling the 500 ml tank (please refer to 'READING THE COUNTER DATA').

Special Aroma adjustments

It's possible to activate the Aroma shots when the machine is in stand-by mode. To do this you need to adjust the interval time with function 16 (please refer to 'PROGRAMMING'). 0 minutes is the standard setting.

Shoulder tanners on/off (I)

Pushing this button will turn the shoulders tanners on or off. If the shoulder tanner symbol is displayed the tanners are on. It is not possible to switch the shoulder tanners immediately back on after you've turned them off. Due to the nature of the lamps they need to cool down till below a certain temperature first. Until the shoulder tanners are ready to start up again, the shoulder tanner symbol on the display keeps blinking.

Operating modes

The V 250 XXL can operate in a number of different modes. These are: Power Up, Stand By, 'ON', After-cooling and Configuration mode. These are discussed in more detail below.

Power Up mode

The power supply to the sunbed is switched on by putting the plug into the socket. The appliance then goes into 'power up' mode. The display (A) will first of all show the number of the operating component software version.

After 1 second the number of the circuitry software version is shown. To help make the distinction the 'sun' symbol is also shown.

After 7 seconds the appliance will go into Stand By mode.

Stand By mode

Once it is in this mode, the sunbed is ready for use. The numbers shown on the display are '00'.

When in this mode the sun shower can be switched on or switched over to the Configuration mode (please see the description of this mode later on in this chapter).

'ON' mode

The sunbed is switched on. The display shows the remaining time in minutes (also refer to 'START-button (B)' above). The last minute is shown in seconds.

After-cooling mode

Once the selected time is finished, the lamps of the V 250 XXL will switch off. The fans will continue to provide after-cooling (the time for this can be adjusted, see 'PROGRAMMING',

function 5) so that the V 250 XXL is quickly ready for the next user. Once this is finished, the V 250 XXL will return to Stand By mode.

Configuration mode

When you are in this mode, you can program or reprogram certain functions of the unit. Counter readings can also be taken in this mode, for example working hours of the lamps.

The main menu in the Configuration mode can be reached from the Stand-by mode by pressing the Bodycooling buttons (J) and (E) simultaneously for 10 seconds. Other programming details are described in the chapters 'PROGRAMMING' and 'READING THE COUNTER DATA'.

Tanning with the SunVision V 250 XXL

As the owner or employee of a tanning studio you naturally know how to use your tanning equipment. Nevertheless, we will list the 'regulations' and recommendations once again. This should enable you to offer your guest good advice about healthy, safe and hygienical tanning using the SunVision V 250 XXL.

Benefits

The use of tanning equipment has a number of beneficial effects on our health. Apart from a 'healthy' colour, sunlight promotes the generation of vitamin D3, which is important for our entire bone structure. Sunbathing thus has a beneficial effect in the treatment of osteoporosis. Many people experience an alleviation of muscular pain and rheumatic complaints after a tanning course. There are also indications that sunbathing has a beneficial effect upon metabolism, blood pressure and cholesterol levels. But by far the greatest effect of sunshine appears to be its effect on our mood. We become happier and more energetic and it is a great way of combating stress and fatigue.

Skin types

White skinned people can be divided into four skin types: I to IV inclusive. Skin type I contains no pigmentation and cannot tan at all or can tan very little, when exposed to the sun. People with this skin type are most likely to suffer from sunburn and should not use any tanning equipment without seeking advice from a doctor first. Skin type IV is a tinted, light skin, the epidermis of which naturally contains a pigment, which can easily be further developed by sunbathing without the danger of sunburn. Skin types II and III represent the transition from I to IV.

It is important that your guest is aware of the sensitivity of his or her skin and skin type before using tanning equipment. Your guest's experience with natural sun is an important guideline here. The list of questions can help your guest to reach a reasonable approximation of his or her skin type.

How sensitive is the skin?

Answer the questions below and write down the score:

What colour are the eyes?

Light blue/green/grey 0 Blue/grey/green.....2
Light brown..... 4 Dark brown/black.....8

score:

What is the natural hair colour?

Red/blonde/brown..... 0 Mid-brown2
Dark brown/black 4

score:

What colour is the untanned skin?

Reddish 0 White but not pallid2
White to beige..... 4 White to brown8
Light brown/olive coloured ... 16 Dark brown.....20

score:

Has your guest got many freckles?

Yes 0 No.....4

score:

How does the skin react after having been out in the sun for a few hours at the beginning of summer?

Painfully burnt, peeling..... 0 Burnt/peeling slightly.....2
Somewhat burnt..... 4 Very slightly burnt.....8
Not burnt 12

score:

How brown is your guest after a week's holiday with lots of sun?

Not brown or hardly brown..... 0 Somewhat brown2
Deep brown 4 Skin is naturally brown8

score:

Fill in the scores and add up the total. You can determine your guest's skin type using the table on the next page.

Skin sensitivity table

Total	Skin type	Definition
<12	I	Very sensitive skin
12-18	II	Sensitive skin
19-25	III	Normal skin
26-40	IV	Skin with very good resistance to the sun
>40	V of VI	Naturally brown skin

Tanning course

A course plan consists of eleven days (or thirteen days, depending upon the skin type), with the second day as a rest day. There is a rest period of 48 hours between the first and second tanning session, and a rest period of 24 hours between all subsequent tanning sessions. The tanning time on the first day is never less than 3 minutes. Recommend your guests not to use tanning equipment more than 50 times per year. Also recommend to observe a rest period of 4 weeks between each sunbathing course.

In table 2 you can find the tanning time for your guest, which depends upon your guest's skin type and the type of lamps in your SunVision V 250 XXL.

IMPORTANT: The tanning times (in minutes) in the following tables are based upon the standard version of the SunVision V 250 XXL. Different lamp combinations require different tanning times. Tables for other lamp combinations are available on request from your distributor.

Please note: When the face tanners are used it is advised to keep at least 20 cm distance from these tanners.

IMPORTANT: Bear in mind that new lamps emit around 20% more 'UV output' during the first 50 hours. During this period you should reduce the tanning time by around 20%.

SunVision V 250 XXL**UV-type 4****Lamps: Cosmolux 200 VHR4**

Sunbath	skin type II	skin type III	skin type IV
1	3	3	3
2	3	3	4
3	3	4	4
4	3	4	5
5	4	5	5
6	4	5	6
7	4	5	6
8	4	6	7
9	5	6	8
10	5	6	9
11	5	7	10
12	5	7	10

SunVision V 250 XXL - 160 watt**UV-type 2****Lamps: SV XTR 200 Intensive**

Sunbath	skin type II	skin type III	skin type IV
1	3	3	4
2	3	4	5
3	4	4	5
4	4	5	7
5	5	6	7
6	5	6	8
7	6	7	8
8	6	8	10
9	7	9	12
10	7	9	12
11	8	10	13
12	8	12	14

Sensible tanning

Tanning with tanning equipment is not without risks. Careless and excessive use of tanning equipment, like excessive exposure to the sun, increases the probability of eye and skin disorders. The degree to which these effects occur is partially determined by the intensity and duration of sunbathing, but is also influenced by the sensitivity of the person in question.

Various European countries have guidelines and recommendations to reduce or prevent the risks associated with sunlight. It is in your own interest and that of your guest to follow your country's guidelines for tanning.

The safe annual dose of sunlight was found to be 15 Kj/m² by CEI/ICE (reference number: 335-2-27:1995).

Your guest would do well to strictly observe the instructions in this manual before beginning tanning.

- ✓ Care should be taken in determining your guest's skin type before tanning and you should ensure that the tanning plan based upon this skin type is followed.
- ✓ Children under 16 years of age and people with skin type I are advised not to sunbathe, i.e. not even outside. The only possible use of tanning equipment for people with skin type I is for 'light therapy' in consultation with a doctor.
- ✓ We recommend that cosmetics are removed several hours before tanning. Some substances can influence the skin's sensitivity to light. Sun cosmetics with a protection factor may not be used during tanning. Special cosmetic products for sunbathing can, of course, be used.
- ✓ Recommend your guests not to wear jewellery during tanning.
- ✓ Bathing or showering before tanning is not recommended, because soap dissolves the natural oils of the skin. Furthermore, the same precautions apply to the SunVision 500 as those for any other electrical equipment: Do not use in the direct vicinity of water or with wet skin.
- ✓ Just as for natural sunbathing it is a good idea to look after the skin using a moisturiser and nourishing cream after tanning (and showering).
- ✓ UV light is harmful to the naked eye. Never look into the lamps when they are on. Unprotected eyes can become infected due to sunbathing and in certain circumstances - for example in the event of excessive exposure - sunbathing can damage the retina. Excessively frequent exposure may eventually lead to cataracts. Ensure that your guest protects his or her eyes with sunglasses that are suitable for this purpose (UV goggles).
- ✓ Contact lens users are advised to remove their lenses.

- ✓ Excessive exposure to UV light from the sun or from tanning equipment can lead to a burnt skin. Sunbathing too often can lead to a rapid ageing of the skin and an increased probability of skin complaints.
- ✓ Point out to your guest that the skin may not be exposed to UV light more frequently than once per day.
- ✓ Ask your guest to be patient. Tanning is not like painting where the final coat 'covers' immediately. Try not to force the pace.
- ✓ Some medicines contain light-sensitive substances that can influence the skin's sensitivity to UV light. Advise your guests to carefully read the instructions accompanying any medication and to consult a doctor in case of any doubt.
- ✓ If the skin unexpectedly goes red during tanning, there is probably a heat erythema due to blood vessel dilatation. This causes excessive heat to be carried away more quickly. Allow the body to cool, reduce tanning times and try to prevent perspiration.
- ✓ Refer your guest to a doctor if he or she suffers skin problems.
- ✓ When pregnant, some women react differently to UV light than normal. Be well aware of this and avoid UV light in the event of excessive sensitivity. UV light is not dangerous to an unborn child.
- ✓ Sunbathing with varicose veins is not a problem, provided the feet are raised slightly, for example by resting them on a rolled up cloth.
- ✓ Pacemakers are tested thoroughly by the manufacturer and are resistant to normal UV light.

Further information

More information about sensible tanning can be found on our website at www.alisun.com

Maintenance

IMPORTANT: Always disconnect the power supply from the SunVision V 250 XXL before performing maintenance or servicing.

Cleaning

Clean the acrylic sheets after each use with an appropriate, non-abrasive cleaning agent. Choose a cleaning agent that does not contain ammonia or alcohol. These substances will cause hairline cracks in the acrylic sheet. Wipe the acrylic sheets with tissue or a soft, clean cloth

For optimal results, and to guarantee a long and trouble-free lifetime, we recommend that you clean the sunbed regularly, according to the following procedure:

- 1) Clean both sides of the acrylic sheets. Further down in this chapter we describe how you can remove the acrylic sheets.
- 2) Turn the lamps 90° and remove them from the lamp holders. Clean the entire length of the lamps with a damp cloth.
- 3) Use a vacuum cleaner to clean dirty areas in the SunVision V 250 XXL.
- 4) Put the clean lamps in the lamp holders. To replace the lamps, push the contact pegs of the lamp as far into the lamp bases as possible, then turn the lamp through 90°.

ATTENTION:

- ✓ Avoid touching the lamp with your fingers. Fingerprints will burn into the surface of the glass.
 - ✓ Reflector lamps should be placed so that the label is visible at the bottom-end of the SunVision V 250 XXL.
- 5) Replace the acrylic sheets and check that they are secured.

Removal of the acrylic sheets

Comment: Only remove acrylic sheets from the V 250 XXL when it is at room temperature.



Perform the following operations to remove the acrylic sheets:

Remove the E40 profiles that hold the acrylic sheet in position.

Get hold of the sheet. The easiest way to do this is by pushing with the thumb halfway the sheet, slightly off centre. Now the edge of the sheet will lift a bit and you can grasp it with your other hand. Pull the sheet toward you.

The edge of the sheet is sharp, so this should be done carefully.

Whenever the sheet seems to be stuck a slight push in the opposite direction usually helps



Fitting the acrylic sheet

Basically the steps are the same for removing it, but then in reverse order.

Gently guide the acrylic sheet through the rail at the top and the bottom of the panel. It is a matter of careful manoeuvring and not so much a matter of applying force. Halfway the panel there is a ridge. You may have to lift the sheet a bit to get past this obstacle.

Put the E40 profiles back. Start at the top and step by step click it back in place until you are halfway down the panel. Then, by bending it a bit, you put the bottom end in position and work your way up to where you were.

Lamps

The Cosmolux 200 VHR4 lamps or the SV XTR 200 Intensive lamps in the panels of the V 250 XXL provide an average of 600 effective operating hours. The lamps may function for longer but the 'UV output' is reduced to the degree that tanning is noticeably reduced after this period. If you are not sure whether the lamps have sufficient 'UV output' you can have the lamps measured and replaced if necessary. Contact your distributor.

IMPORTANT: Bear in mind that new lamps in the first 50 hours of use emit around 20% more 'UV output'. During this period the tanning time should be reduced by 20%.

Only replace lamps with lamps of the same type. A different type of lamp will also have a different UV output, which will alter the prescribed tanning times.

Replacing the 2 metres 200 W lamps

Perform the following operations to replace the lamps in the panels:

- ✓ Disconnect the power supply from the SunVision V 250 XXL.
- ✓ Remove the acrylic sheet from the panel where you need to replace a lamp.
- ✓ releasing the lamp from the socket by turning it 90°.



- ✓ Now pull the lamp slightly toward you, thereby releasing the lamp from the holder.
- ✓ Place the new lamp, by placing it in the bottom socket first and then in the top one. Turn the lamp about 90°. A slight click will tell you when the lamp is in place.
- ✓ Place the acrylic sheet back into place.

Replacing the face tanners



Perform the following operations to replace the face tanners:

- ✓ Disconnect the power supply from the SunVision V 250 XXL.
- ✓ Remove the front of the shaft (see step 22 of the assembly instructions).
- ✓ Hold the rim of the reflector and turn it 45° counter clockwise.
- ✓ Pull the reflector straight toward you. Doing this under any other angle may damage the fitting in the shaft.
- ✓ Now you can replace the face tanner lamp. It is a simple plug-socket fitting. Just pull it out straight and plug it in straight. Don't touch the lamp with your fingers, but use a piece of cloth or paper for protection instead.



- ✓ When putting the reflector back in make sure the knobs for fitting are in the right position. See image on the left. Put the reflector in the fitting and turn it 45° clockwise.
- ✓ Replace the front of the shaft.

Replacing the shoulder tanners:

Perform the following operations to replace the shoulder tanners:

- ✓ Disconnect the power supply from the SunVision V 250 XXL.



- ✓ Remove the acrylic filter. The easiest way to do this, although it should be done carefully is by using a screwdriver for leverage. To get the screwdriver around the edge you may apply a little pressure with your thumb on the centre of the filter.

- ✓ Hold the rim of the reflector and turn it 45° counter clockwise.

- ✓ Pull the reflector straight toward you. Doing this under any other angle may damage the fitting in the shaft.



- ✓ Now you can replace the shoulder tanner lamp. Pull the fitting through the rubber trap. Once that's done, it is a simple plug-socket fitting. Just pull it out straight and plug it in straight. Don't touch the lamp with your fingers, but use a piece of cloth or paper for protection instead. Once the new lamp is plugged in, the fitting must be pushed back through the rubber trap.

- ✓ When putting the reflector back in make sure the knobs for fitting are in the right position. See image on the left.
- ✓ Put the reflector in the fitting and turn it 45° clockwise.
- ✓ Replace the acrylic filter by clicking it in back in place

High-pressure lamps have a very high intensity in the UV-B range and even in the dangerous UV-C spectrum. If UV-C radiation reaches the skin, the skin will burn immediately. It is therefore absolutely imperative to avoid direct radiation from high-pressure lamps.

IMPORTANT: If an acrylic in front of a face or shoulder tanner is broken, the SunVision V

250 XXL may not be used under any circumstances.

High-pressure lamps contain heavy metals that sometimes precipitate onto the inside of the glass lamp. This is a normal effect and the metal globules will vaporise as soon as the lamp reaches its operating temperature.

Replacing the lamp in the door display

To replace the lamp in the door display the front of the door must be removed.



Remove the E40 profiles on both sides of the door's front panel.



By pushing with your hand somewhere near the centre of the panel it will 'flip' out of the bottom and/or top rail.



BEWARE: Near the bottom on the right hand side the panel is connected to the door itself by two electrical wires. Once the front has come loose of the door, just let it lean against it. Because the wires are not too long, you cannot locate the front panel far away from the actual door.



Inside the door panel there is one lamp which you can replace the same way it is done for the 2 metres lamps in the panels.

To replace the front panel of the door it must be put back in the top and bottom profile and then secured with the two E40 profiles for both sides of the door's front panel.



Changing Aroma and Breeze

When taking away the front of the unit you see a blue tank for the AquaBreeze fluid held in place by a strap and the tank with aroma fluid.

AquaBreeze

To replace the tank the strap must be loosened first. Next unscrew the cap with the tube inlets. Take the cap off of the new tank and then replace the old tank with the new one. Put the cap with the tubes back on the new tank and tighten the strap. After the tank has been replaced it will take a short while to pump the AquaBreeze back up again to the breeze center. The studio owner should make sure this is taken care of before another customer uses the V 250 XXL.



Aroma

Take the 500 ml tank from its housing and remove the lid and tube. After this remove the air tube by pushing on the bronze socket and gently pulling the hose.

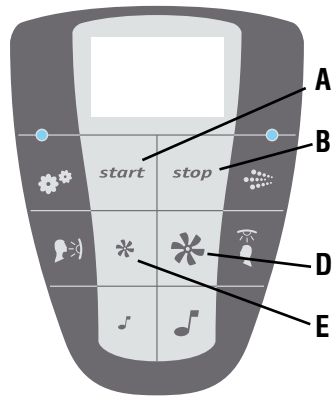
When you're done cleaning, the hose can easily be pushed back into the speed coupler.

Check if the tube is properly secured. Clean the empty container once before filling it with the same scent. Clean it twice when filling it with another scent.



NB: Be sure to reset the counter after refilling the tank (please refer to 'READING THE COUNTER DATA').

Reading the counter data



The V 250 XXL gives the (studio) owner the possibility to read out a variety of service data. By using the control panel you can enter the software into the Configuration Counter Menu via the Configuration Main Menu. The Configuration Counter Menu enables you to view details concerning the use of your SunVISION V 250 XXL

Configuration Main Menu

The main menu in the Configuration mode can be reached from the Stand By mode by holding down buttons 'D' and 'E' simultaneously for 10 seconds (see Fig. 1). The Configuration Main Menu allows you to program certain function settings (see 'Configuration Programming Menu' in the chapter 'PROGRAMMING') and also gives you the choice of taking an Hour Counter reading (see 'Configuration Counter Menu').

The display will show 'Pr' or 'Cn' with the word 'program'. 'Cn' (counters) is the first option in the Configuration Main Menu. Pressing button 'E' will take you to 'Pr' (programming); pressing button 'D' will take you back to 'Cn'. Your selection is confirmed by pressing the START-button 'A' (Fig. 1).

Configuration Counter Menu



Fig. 2 Display selection Counter Menu

You have now arrived at the first readout function (see 'READOUT FUNCTIONS' below). Every time you press the start button 'A', that will take you to the next function. After the fourth and last readout function you will arrive at the Configuration Save Menu (refer to this section).

NB: If during 2 minutes no instructions have been entered, the Counter Menu is automatically exits and any changes that may have been made will not be saved.

Readout functions

The display can show two digits at once. Counter readings that contain more digits are displayed in groups of two digits, always at one second intervals.

Function 1: Operating hours

This counter records the total number of operating hours up to a maximum of 65,000 hours.

This counter cannot be reset.

Taking a total of 59,624 operating hours as an example, the following figure groupings are displayed one after the other:



Function 2: Coin pulse counter

This counter records the number of coins inserted in the coin box (if connected) up to a maximum of 65,000.

This counter can be reset (see 'Resetting the counters to zero').

Taking a total of 58,966 inserted coins as an example, the following figure groupings are displayed one after the other:

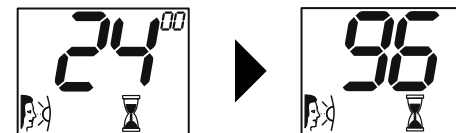


Function 3: Number tanning hours of face tanners

This counter records the total number of tanning hours of the face tanning lamps up to a maximum of 65,000.

This counter can be reset (see 'Resetting the counters to zero'). Resetting this counter after every lamp change is recommended because it can help determine when the next lamp change is due.

Taking a total of 2496 tanning hours as an example, the following figure groupings are displayed one after the other:

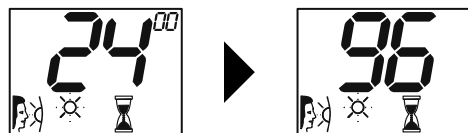


Function 4: Number tanning hours of shoulder tanners

This counter records the total number of tanning hours of the shoulder tanning lamps up to a maximum of 65,000.

This counter can be reset (see 'Resetting the counters to zero'). Resetting this counter after every lamp change is recommended because it can help determine when the next lamp change is due.

Taking a total of 2496 tanning hours as an example, the following figure groupings are displayed one after the other:

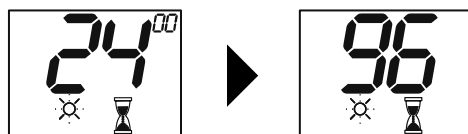


Function 5: Number tanning hours of body lamps

This counter records the total number of tanning hours of the lamps in the panels up to a maximum of 65,000.

This counter can be reset (see 'Resetting the counters to zero'). Resetting this counter after every lamp change is recommended because it can help determine when the next lamp change is due.

Taking a total of 2496 tanning hours as an example, the following figure groupings are displayed one after the other:

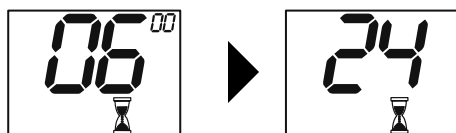


Function 6: Number of aroma shots

This counter records the total number of times an aroma shot was released up to a maximum of 2,000.

This counter can be reset (see 'Resetting the counters to zero'). Resetting this counter after every aroma container change is recommended because it can help determine when the next change is due.

Taking a total of 624 aroma shots as an example, the following figure groupings are displayed one after the other and meanwhile the aroma LED is on:



Function 7: Number of breeze shots

This counter records the total number of times an breeze shot was released up to a maximum of 2,000.

This counter can be reset (see 'Resetting the counters to zero'). Resetting this counter after every breeze cannister change is recommended because it can help determine when the next change is due.

The display is identical to that of the aroma counter. When this counter is active the breeze LED instead of the aroma LED is lit

Resetting the counters to zero

If it is possible to reset the counters to zero, this can be done by holding down buttons 'D' and 'E' simultaneously for 2 seconds (Fig. 1).

Configuration Save Menu

The last programming function is followed by the 'Configuration Save Menu'. The words 'reset', 'cancel', 'save' and 'program' are shown consecutively when button 'e' (scroll back) is pressed or when button 'd' (scroll forward) is pressed (Fig. 1).

Pressing START-button 'a' within two minutes will confirm your selection (Fig. 1). If no selection has been confirmed after two minutes, the Configuration Save Menu is exited without the changes being saved (compare with the 'cancel' selection).

reset

By selecting 'reset' all the settings (except for the counter settings) revert to the factory settings and the Configuration Save Menu is quit.

cancel

Selecting 'cancel' results in the Configuration Save Menu being exited without any changes being applied. The sun shower will return to Stand By mode.

save

By selecting 'save' all the changes that were made will be saved and the Configuration Save Menu is quit.

program

By selecting 'program' you will return to the Configuration Main Menu without any data being saved.

Troubleshooting

1. The V 250 XXL 'does nothing'

- ✓ Check whether the SunVision V 250 XXL is plugged in.
- ✓ Check whether the SunVision V 250 XXL is correctly programmed. See the chapter 'PROGRAMMING'.
- ✓ Check the main supply; if necessary replace the group fuse.
- ✓ Check whether the fuse in the SunVision V 250 XXL is defective, which is located inside the shaft near the main circuit board.

2. The SunVision V 250 XXL still does not work

- ✓ The SunVision V 250 XXL is possibly connected to a group to which several appliances are already connected and the demand for power exceeds the supply. When in doubt, contact your distributor or the electricity company.
- ✓ The control panel needs replacing. Contact your distributor.

3. One lamp does not come on

- ✓ Replace the lamp that does not work with one that does.
- ✓ If this lamp does not work, replace the starter.
- ✓ If this lamp does work, replace the previous lamp.
- ✓ If the lamp still does not work, the ballast probably has to be replaced. Contact your distributor.

4. The lamps flash on and off

- ✓ The voltage is too low. Consult your electricity company.
- ✓ The temperature of the surroundings is too low. Warm the surrounding air (temporarily).

5. The SunVision V 250 XXL gets too hot

- ✓ Check whether the ventilators turn (and check if they turn in the right direction) when the SunVision V 250 XXL is switched on. Contact your distributor if this is not the case.
- ✓ The temperature of the surrounding air is too high. Ventilate the area.

Error messages and solutions

When the appliance is in stand-by mode you will normally see 00 on the display.

If a fault has developed the display shows the letters 'Er' (error), alternating with an error code. The error codes that may appear are described below.

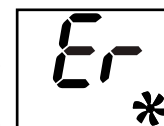
If the symbol 'Cooling during follow-on time' is visible, there is still communication with the PCB. If this symbol is not visible, communication has ceased.



display V250XXL



display reception



display V250XXL



display reception

Error code 1 Safety switch when PCB is open

Not applicable.

Error code 2 Sticky relay

It is impossible to determine which relay is 'sticky'. Remove the voltage and then reconnect. If the error message returns, contact your distributor to have the switching PCB replaced.

Error code 3 Maximum time of the switching PCB exceeded

This (highly unlikely) situation can occur if the clock of the control PCB has become slow or that of the switching PCB too fast. Contact your distributor to have the switching PCB replaced.

Error code 4 Communication drop-out with switching relay PCB

Restore the connection with the switching PCB; check whether the cord has developed defects and whether the connectors are properly connected.

Error code 5 Communication drop-out of reception control system

Restore the connection with the reception control system; check whether the cord has developed defects and whether the connectors are properly connected.

Error code 6 Phase error

Disconnect the power supply and reconnect.

Parts list

Error code 7 Not applicable

Error code 8 Control unit is overruled

This error code occurs when the cable to the control unit is broken or when it was disconnected while the V 250 XXL is on. Disconnect the power supply and reconnect.

The following parts for the SunVision V 250 XXL can be ordered from your distributor:

Description	ART. NR.
Back panel SV V 250 XXL.....	341540
Cosmolux VHR4/200 180/200W	350186
SunVision XTR 200 Intensive 160W.....	350452
Face tanner SV V 250 XXL.....	350863
Control unit BP5	356205
Circuit board SP4.....	356224
Circuit board SP5.....	356225
Aroma Exotic Attraction, 5 x 100 ml.....	348641
Aroma Sensual Wellness, 5 x 100 ml	348642
Aroma Summer Energy, 5 x 100 ml (standard).....	348643

Environment, declaration of conformity and warranty conditions

Environment

Some cleaning products are not suitable for cleaning your sunbed. For example: Cleaning agents containing ammonia or alcohol will attack the surface of your sunbed, which will accelerate the ageing process.

Other cleaning products may react with the UV light from the sunbed. We recommend that you make sure you are well informed about the products that you use for cleaning your sunbed.

Old UV lamps are chemical waste and should be handed in at institutions that treat chemical waste according to the laws of your country.

If you wish to replace any tanning equipment please contact your distributor for the correct disposal procedure.

DECLARATION OF EC CONFORMITY

In accordance with the appropriate directives 73/23/EEC and 93/68/EEC (European Low Voltage Directive) and 89/336/EEC (EMC-Directive) we, Alisun Europe BV - Celsiustraat 33, 1704 RX Heerhugowaard, The Netherlands - herewith confirm that the sunbeds in the SunVision V250 XXL series are in compliance with the standards named below.

EN 60335-1 / 1994 + A11 + A1 + A12 + A16,

EN 60335-2-27 / 1997, + A11,

EN 61000-6-3:2001,

EN 61000-3-2:1995 + A1:1998 + A2:1998

EN 61000-3-3:1995

EN 61000-6-1:2001

EN 61000-6-2:2001

This declaration is based upon the EMV-certificate nbr. 05C01372CRT01 by DARE.

WARRANTY CONDITIONS

- The warranty period begins on the date of purchase and ends 12 months after this date. The warranty is non-transferrable and is therefore only valid for the first purchaser.
- Work under the warranty will only be carried out upon presentation of the invoice for the SunVision V 250 XXL.
- Components that are subject to the normal wear process such as lamps, starters and acrylic sheets, are not covered by the warranty.
- The warranty is invalidated if modifications are made to the SunVision V 250 XXL without the express written permission of the manufacturer. This is true regardless of whether these modifications can be shown to be directly associated with the defect.
- Malfunctions that are the result of installation errors and/or incorrect usage are not covered by the warranty. We therefore strongly recommend that you read carefully and follow the regulations regarding assembly, installation and use.
- When reporting a fault under warranty you should quote the serial number and the model.
- The warranty only covers the replacement of defective components. Normal wear excepted. Travelling and labour costs are not covered by the warranty.