OPERATING INSTRUCTION



Beauty Angel Light SPA

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Operating instruction and installation instruction



Operating instruction and installation instruction

Translation of the original operating instructions and installation instructions

Beauty Angel Light SPA

1029643-00B / en / 07.2025

Ergoline

Legal notice



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DANGER!



Failure to observe these operating instructions:

- may result in serious injury and death,
- can result in damage to the unit and to the environment.
- Read these instructions carefully before putting this unit into operation.
- Please observe the instructions and the code of conduct required to operate the unit safely.
- Please make the operating instructions and additional information from the manufacturer available to the personnel at their workplace.
- Should you sell this unit or give it to another party, please make sure that you provide them with these operating instructions.

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1 Safety instructions and warnings

To ensure safe operation of the device, it is necessary to read the following safety instructions and warnings carefully and comply with them.

These instructions should be retained for future use.

The safety instructions summarized here are repeated in the corresponding chapters, where necessary.

1.1 General

1.1.1 Definitions

Operator

Owner or person who provides the units described here to users on a commercial basis. The operator is responsible for the correct operation of the unit as well as compliance with the maintenance intervals.

Private user

Owner or person who does not use the units described here on a commercial basis, but instead uses them privately or makes them available to other users. The private user is responsible for the correct operation of the unit as well as compliance with the maintenance intervals.

User

Person who uses the unit.

Staff

People who are responsible, on behalf of the operator, for the operation, cleaning and general maintenance work and who instruct the users in the operation of the units.

Electrician

A person with suitable professional training, knowledge, experience and knowledge of the applicable regulations which enable them to identify and avoid the dangers which can arise from working with electricity.

Authorized, trained and qualified personnel

Qualified staff from an external company who have been trained and authorized by the manufacturer to undertake assembly and maintenance work on specific equipment.





1.1.2 Symbol explanation

The following types of safety notices are employed in these operating instructions:

A

DANGER!



Type and source of hazard

This safety notice indicates the existence of a direct danger to body and life.



DANGER!



Type and source of hazard

This safety notice warns of dangers to body and life which are caused by electricity.



WARNING!



Type and source of hazard

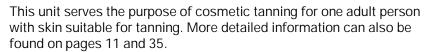
This safety notice warns of machine, material or environmental damage.



NOTE:

This symbol does not identify any safety notices, but provides additional information to better understand the processes.

1.2 Intended use





Some people are not permitted to use the unit, see Section '1.4.1 Prohibited usage'.

The unit may not be used by users with reduced physical, sensory or mental capabilities or who have insufficient experience and/or knowledge without supervision. If there is any doubt as to whether this can be achieved, use of the unit by these users is prohibited!

The device may only be operated with the specified or equivalent lamps. The tanning times given in this instruction manual are valid only for the specified lamp set.

Any other use shall be considered improper. The manufacturer cannot be held liable for damage or injuries resulting from improper use. The operator or private user alone bears the risk for improper use.

Proper use also includes compliance with the manufacturer's instructions and its operating and maintenance conditions. The unit may only be repaired by authorised, trained professionals familiar with this unit and that have been informed of the dangers involved.

1.3 Foreseeable misuse

The following uses of the unit are explicitly prohibited:

- The unit may not be used by several people at the same time. The base may otherwise break and cause injuries.
- People with a body weight of more than 135 kg may not use the unit. The base may otherwise break and cause injuries.
- Exceeding the specified tanning times may result in sunburn and long-term skin damage.
- When the unit is in use no other people may remain in the room, in particular children.
- While using the unit no pets may be present in the room.
- Do not hang any objects on the canopy that place any strain on it.
- The inlets and outlets must not be covered, e.g. with a hand towel or clothing.
- People under 18 years of age may not use the device.
- Do not connect the unit to a multi-plug, socket board and extension cable.
- The unit must always be connected to a separate socket with its own fuse.

1.4 Tanning safety information

1.4.1 Prohibited usage



DANGER!



UV radiation

Danger of skin and eye injuries or skin diseases!

- Please observe the following instructions.

The following people may not use the device:

- People under 18 years of age
- People who cannot tan
- People who cannot tan in the sun whithout risking a sunburn
- People who easily sunburn when in the sun
- People with acute sunburn
- People who repeatedly suffered from serious sunburn during childhood
- People with naturally red hair
- People with atypically discoloured areas of skin
- People who have or have had skin cancer
- People who suffer from an increased risk of skin cancer (e.g. cases of skin cancer in the family)
- People among whose closest relatives a melanoma has occurred
- People who are being medically treated for photosensitivity
- People taking photosensitivity causing medicine
- People with freckles and people who tend to develop freckles
- People with more than 16 moles on their body (2 mm diameter or larger)
- People with atypical moles (atypical moles are, for example, asymmetrical moles with a diameter greater than 5 mm, with varying pigmentation and irregular edges)
- Seek medical advice without fail if in doubt!

The following people may only use the device after consultation with their doctor:

- People with chronic illnesses, in particular those related to the skin
- People with illnesses of the immune system / auto-immune diseases
- People with collagenosis (e. g. lupus erythematodes, scleroderma)
- People suffering from rosacea (copper rose)
- People with spider veins (e. g. couperose, Osler's disease, spider nevi)
- People with low blood pressure, cardiovascular diseases
- People suffering from venous diseases
- People suffering from cancer
- People with fresh wounds following an operation or surgery
- People with tattoos or piercings which have not fully healed
- Pregnant women

Should there be any doubt with regard to compatibility, despite no known medical side effects, a test application of a maximum of 5 minutes should be initially carried out and the reactions observed. If no adverse reactions are found after 48 hours, normal application may be begun.





1.4.2 Important notes

All other people must observe the following instructions:

Danger of skin and eye injuries or skin diseases!

- The skin can become sunburnt when exposed to excessive radiation. Excessive, frequently repeated UV radiation exposure from natural sunlight or UV devices can result in premature ageing of the skin and an increased risk of skin tumours.
- Particular caution is advisable for individuals who are especially sensitive to UV radiation, and when certain medicaments or cosmetics are used. Seek medical advice without fail if in doubt!
- Seek medical advice if any unexpected consequences, such as itching, occur within 48 hours of the first tanning session.

Behaviour before, during and after a sunbath:

- During the tanning session no other people may remain in the room, in particular no children.
- Remove all jewellery (including piercings) before the tanning session.
- Remove cosmetics before tanning and do not use sun screen products.
- Do not use any products intended to accelerate tanning.
- UV light can cause irreversible eye injuries or skin damage. The surface of unprotected eyes can become inflamed and the retina can also be damaged by excessive radiation in certain cases. Cataracts can form after frequently repeated exposure to radiation. Use the accompanying UV-impermeable goggles. Contact lenses and sunglasses are not replacements for the safety goggles!
- Protect sensitive skin areas such as scars, tattoos and genitals before tanning.
- Observe the recommended tanning times.
- During a tanning session the quantity of radiation which results in the skin reddening (MED, minimum erythema dose) may not be exceeded. If reddened skin occurs around 16-24 hours after the tanning session you may not use the tanning device again for one week. After one week you can start again from the beginning with the first tanning session in accordance with the tanning table.
- The time between the first two sessions on the sunbed must be at least 48 hours! Do not take an additional sunbath on the same day.
- See a doctor if stubborn swelling, sores or pigmented moles form on the skin.

General instructions

Increasing tanning requires increased exposure time (= radiation time) or after a certain degree of tanning has been achieved, increased tanning is not possible. However, the radiation time may not be extended as desired within the scope of the permissible radiation doses! Therefore, only a certain level of final tanning, which depends on the skin type, can be achieved without endangering your health.

1.4.3 Skin type descriptions

DANGER!



Burns and long-term damage!

People with skin type I may not use the tanning device.

The following applies to people with skin types II, III and IV:

- Observe the tanning times.
- Observe the safety instructions.



NOTE:

The tanning times are only valid for the lamp set specified on the lamp set sticker.

The tanning sessions should be at least 48 hours apart.

The maximum dosage of 25 kJ/m² per year should not be exceeded.

The maximum dosage is weighted according to NMSC.¹

Skin type I	Skin type II	Skin type III	Skin type IV
			IV
Sensitive skin	Light skin	Normal skin	Dark skin
Always/fre- quently burns	Usually burns	Sometimes burns	Rarely burns
Tolerates only a small amount of natural sun.		x.Tolerates approx 20-30 min. of natural sun.	a.Tolerates approx. 40 min. of natural sun.

¹ NMSC: Non Melanoma Skin Cancer

1.4.4 Tanning times EN (UV type 3)



NOTICE:

People with skin type I should not use the device.

• Observe the tanning times

Observe the national requirements!

The tanning dosage of 3 kJ/m² per programme of tanning sessions should not be exceeded.

The maximum tanning time must not exceed 33.

The tanning sessions must be at least 48 hours apart.

The maximum tanning minutes per year should not exceed 833 minutes.

Beauty Angel Light SPA:

- Low-pressure lamps
 LightSpa BEAUTY by Ergoline R 120 W
 1515514-...
- Low-pressure lamps
 LightSpa BEAUTY by Ergoline R 100 W C 31 1515513-...
- Low-pressure lamps
 LightSpa BEAUTY by Ergoline R 120 W
 1515515-...

Number of tanning sessions	Skin type I	Skin type II	Skin type III	Skin type IV
	[min]	[min]	[min]	[min]
1	_	5	5	5
2	_	11	11	11
3	_	13	13	13
4	_	13	13	13
5	_	16	16	16
6	_	16	16	16
7	_	20	20	20
8	_	22	22	22
9	_	25	25	25
10	_	25	25	25



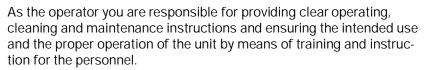
NOTICE:

According to standard EN 60335-2-27:2013 the tanning table is not depending on skin types.

Identical tanning times are valid for all skin types, with the exception of skin type I.

1.5 Safety instructions and warnings

1.5.1 Operator's obligations



Your operating instructions must enable the safe use and safe operation of the unit and take into account the characteristics and expertise of your company and also the national work safety and environmental protection regulations (within the European Union, the EU directive 89/391/EEC).

1.5.2 Personnel training

As the operator you are obliged to train your personnel and instruct them in the established legal and accident prevention regulations. Ensure that your personnel have understood and observe these operating instructions. This applies in particular to the

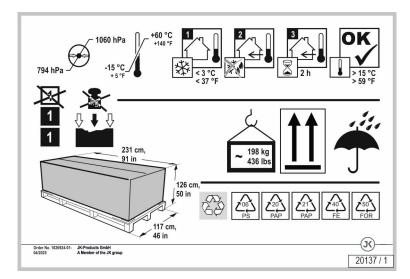
- information in 'Intended use' and 'Foreseeable misuse'
- safety instructions in the 'Operation' chapter
- operating instructions
- cleaning and maintenance instructions
- Please make the instructions and additional information from the manufacturer available to the personnel at their workplace.
- Regularly check your personnel's safety consciousness and awareness of the risks, taking into account your operating instructions.
- Please ensure that the cleaning intervals are complied with, in particular cleaning after every tanning session.
- Please ensure that your personnel provide your customers with appropriate advice, in particular regarding tanning times, possible risks and the operation of the device.
- People under 18 may not use the device. Please instruct your personnel to check the customer's identification in the event of doubt.

1.5.3 Scope of delivery

Information regarding the scope of delivery is contained in the 'Description' chapter on page 33.



1.5.4 Transport, assembly and setup



The unit is delivered by a specialist company and assembled and set up by an authorised service company.

Assembly

A D

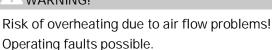




Personal danger due to electric shocks or burns!

- Ensure that the electrical connection complies with national regulations.
- Repairs to the unit may only be carried out by specially trained and instructed personnel.
- The unit must be connected with a mains power cable with a standard European Schuko plug.
- Disconnect the unit from the power supply before performing any work.
- The unit must only be connected to a socket with correctly installed protective contacts.
- The system should be protected using a residualcurrent circuit breaker (residual-current device) with a maximum rated residual current of 30 mA.
- Before connecting the unit, make sure that the power supply corresponds to the unit's power supply data (see page 56).
- Risk of fire from overheating! Never use multiplugs, socket boards and extension cables.

Ventilation





- Do not change, obstruct or block the air inflow and outflow to the device or make any unauthorized changes to the device. The manufacturer shall bear no liability for damage or injuries resulting from such actions.
- Note the environmental conditions (page 15).

Setup location

. WARNING!



Salty air! Contaminated air!

Device damage due to corrosion of the

Device damage due to corrosion of the housing and electrical components.

- Do not set up the unit at a swimming pool.
- Do not operate the device in locations with aggressive environmental conditions (e.g. air containing chlorine).

Damage to unit possible!

Where there are great differences in temperature between the transport route and the installation site the unit may not be put into operation immediately after being set up.

 Wait at least 2 hours before connecting the unit to the power supply.

Environmental conditions

- Optimum ambient temperature: Between +15°C and +32°C
- Storage temperature: Between -15 °C and +60 °C

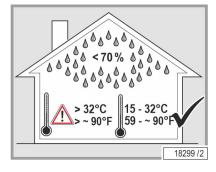
Possible damage to the unit!

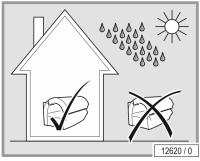
The unit is not to be used outdoors.

Keep the unit away from open flames or sources of ignition.

Adaptation of the unit is required for operating altitudes greater than 2000 m above sea level in order to guarantee trouble-free operation.

Fundamentally, the unit is not suitable for operation in mobile facilities (e.g. ships, buses, trains).







1.5.5 Commissioning



DANGER!



Damaged mains power cable!

Danger to persons due to electric shock and risk of burns.

 The unit must not be used if the mains power cable is damaged.



NOTE!

The process for replacing the mains power cable is described in Section 2 and 2.2.

The unit is delivered ready-to-use and ready to plug in.

The operator of the in-house electrical installation is responsible if faults occur that are attributable to the operation of a stand-alone energy system (such as microgrids or back-up systems). The protective measures provided for in the in-house installation and in the Beauty Angel Light SPA system must be replaced by equivalent measures in the installation, even with a stand-alone energy supply system, in terms of their function and mode of operation. This must also be ensured in non-mains-synchronous operation.

Please inform customer service if you discover any transport damage when unpacking and installing the unit.

Please observe the information below to make sure the damage can be regulated quickly and without any problems:

- Detectable damage must be reported in writing to the shipping company within a period of 4 working days – including the date of delivery and receipt of the notification by the shipping company.
- If you notice any transport damage during set-up, please report it immediately to your set-up team.
- You must claim for the damage sustained from the shipping company/set-up team which made the delivery, as risks during shipping are the client's responsibility under the shipping company's terms and conditions of business.

1.5.6 Operation and maintenance

Error-free operation, maintenance and service are required in order to ensure that the health and safety of the users is not endangered during operation and to ensure that the unit is in a fault-free operating condition.

Always abide by the information and recommendations given in this operating manual. Ensure that the intervals for the inspection, maintenance and service are complied with. Please ensure that the lamps are replaced after the specified usage time.

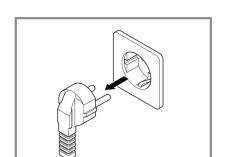
Unauthorised modifications and changes to the unit are prohibited. Failure to comply with this invalidates the operating licence!



NOTE:

If a fire is suspected, immediately disconnect the power supply as long as this is safely possible. Continue to observe all regulations required by law, public authorities and employer's liability insurance associations, which remain unaffected by the aforementioned instructions.





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1.5.7 Decommissioning

The mains plug must be disconnected in order to temporarily or permanently decommission it.

The legal requirements regarding disposal must be observed when permanently decommissioning the unit.

1.5.8 Storage

Store the devices in a dry location with a stable temperature. Once the device has cooled off, pack it in plastic wrapping to protect it against scratches.

Storage temperature: Between -15 °C and +60 °C

1.5.9 Disposal

Environmental regulations – disposal of lamps and batteries

Lamps contain fluorescent materials and other waste products containing mercury.

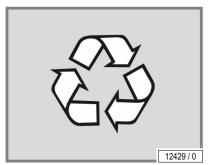
Within the European Union the national implementation of the Waste Framework Directive 2018/851/EC applies. According to the national waste disposal laws and in accordance with the municipal waste regulations; proof must be provided of the proper disposal of lamps.

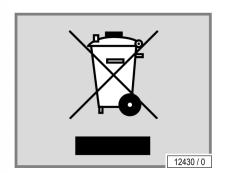
Your local sales agency will be happy to assist you with the disposal of lamps.

Report the number of lamps to your agency by telephone or in writing.

The agency will then provide you with the name of a free delivery point for your lamps or will take care, in conjunction with a disposal company, of the collection and proper disposal of the lamps. This service is available for a fee. Local national laws apply outside Germany. Please contact your local sales agency.







Packaging

All packaging consists of 100 % recyclable materials. Packaging brought into circulation by the JK Corporate Group that is no longer required can be returned to the JK Corporate Group. Your partner agency or dealer will be happy to advise.

Disposal of old units

The unit has been manufactured using recyclable materials. The JK Corporate Group will provide you with information on the content or potential hazards of the materials used.

The manufacturer is obliged to take back and dispose of certain electrical and electronic components in accordance with the 2012/19/EC Directive.

The components and units are labelled with the following symbol:

The unit will, if requested, be properly disposed of by the JK Corporate Group. This service is available free of charge. Your partner agency or dealer will be happy to advise.

Registration numbers

Companies within the JK Corporate Group are registered as manufacturers in Germany and accept all obligations in respect of the German Electrical and Electronic Equipment Act.

Registry number JK-International GmbH, Division JK-Licht GmbH (lamps):

WEEE-DE 61515020

Registry number JK-Products GmbH (Devices): WEEE-DE 62655951

1.5.10 EU guidelines

See the included EC Declaration of Conformity.

1.5.11 Export

We would like to point out that the units are intended exclusively for the European market.

The units must not be used in countries such as the USA or Canada.

The JK Group does not accept any liability in the event of non-compliance!

1.5.12 Technical modifications

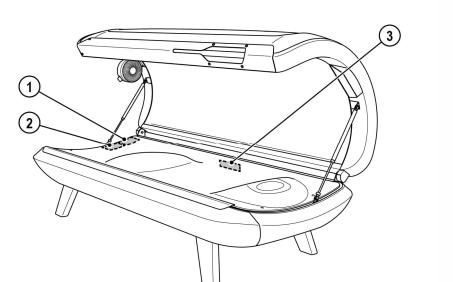
The unit is built according to the state of the art and the valid safety regulations. The illustrations and specifications on these operation instructions are subject to technical modifications which are required in order to improve the unit.

Unauthorised modifications and changes to the unit are prohibited. Failure to comply with this invalidates the CE conformity!

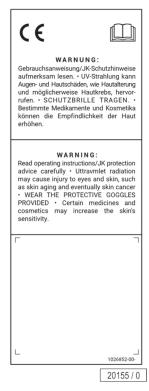
Please use only original spare parts. Failure to comply with this invalidates the CE conformity!

1.6 Signs and stickers on the unit

Danger area warning signs and important information about components are attached to the unit. The signs shown below are examples. Ensure that the warning signs are always clearly recognisable and legible. Any missing warning signs or stickers must be replaced.



1: EU warning sticker (1026852-..)



This sticker also includes the language form 1026933-.. (see accessories Technical Documentation).

The sticker is located on the well at the feet end of the unit.



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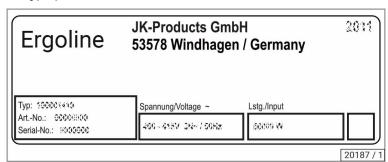
2: Lamp set sticker



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The precise details of the required lamps are available in the separate appendix.

3: Type plate



The name plate is attached to the back of the base. It contains important information for identifying the unit (e.g. the serial number = Serial-No.).

4: ESD (Electrostatic discharge) - sensitive components sticker (85662-..)

This sticker is mounted in several places in the device.

1.7 Preclusion of damage

Insofar as the customer asserts any rights related to a defect in the unit based on the legal warranty and/or guarantee, the following shall apply: The warranty and guarantee do not cover wear parts such as low-pressure lamps (tubes) or consumables (aroma) or acrylic glass panels.

Furthermore, wooden components are only covered by a limited warranty and guarantee because they are a natural product with natural differences and deviations. For this reason, the following cannot be accepted as defects:

- The shape of wooden rings and knots
- The colour and tone of wood
- Natural textures or knot content
- Natural shrinkage or swelling when absorbing or emitting moisture
- Slight twisting
- Cracking
- Any dry cracks
- Resin flow
- Unevenness in the wood.

Should the product contain faults, JK-International is entitled and obligated to repair or replace the product at its own discretion. Where it is not possible to repair or replace the product, the customer may withdraw from the purchase agreement or reduce the purchase price by a suitable amount.

The warranty period is two years from delivery or from acceptance, if an acceptance process is required. This does not affect the rights of the customer under the existing warranty with regard to any claims that the customer might have in accordance with the contract of purchase.



1.8 Exclusion of liability

Regardless of the legal grounds, liability of the JK Group shall be excluded if damage can be attributed to one or more of the following causes:

- improper use of the unit;
- improper assembly, commissioning, operation and maintenance of the unit;
- operating the unit with faulty safety equipment or improperly attached or non-functional safety and protective equipment including warning signs;
- not complying with the information in the operating instructions regarding transport, storage, setup, commissioning, operation and maintenance:
- Unauthorised changes to the unit
- inadequate monitoring of parts subject to wear;
- repairs carried out improperly;
- the use of non-original spare parts;
- emergencies and disasters resulting from the influence of foreign materials or force majeure.
- Use of untrained personnel or unqualified technicians.

Please note:

In the event of damage, JK-International GmbH shall assume no liability if the damage is caused by improper setup!

2 Dismantling/Setup/Commissioning

Two people are needed to dismantle and set up the unit.



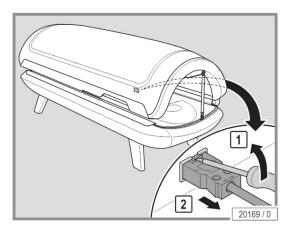


NOTE:

In the event of damage, JK-International GmbH shall assume no liability if the damage is caused by improper setup! Please read these instructions carefully before setup and follow all the steps.

Setup tools needed:

- 4 mm hex socket (included in the scope of delivery)
- Safety gloves
- Flat-head screwdriver
- Scissors or cutter



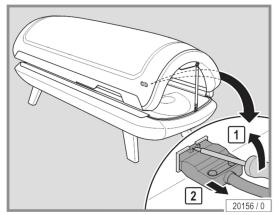
- Use a screwdriver to carefully lift up the catch on the connector.
- Remove the mains plug.



NOTE:

The connector on the mains power cable must be disconnected only when the unit has been setup.

- Use a screwdriver to carefully lift up the catch on the connector.
 - ➤ This plug connects the canopy to the base.
- Pull out the plug.





NOTE:

The plug on the connection cable must be disconnected only when the unit has been setup.

2.1 Dismantling the canopy

1 WA

WARNING!



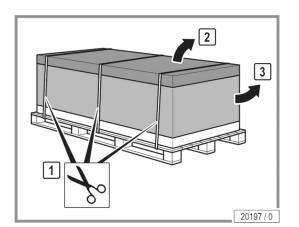
Danger of hand injuries!

 Wear protective gloves during assembly work to avoid injuries.



NOTE:

The unit may need to be dismantled in order to move it to its intended location. The unit should always be dismantled due to its weight and for handling reasons.



- Remove the packing:
- 1. Cut and remove the straps.
- 2. Lift the lid.
- 3. Remove the cardboard ring.



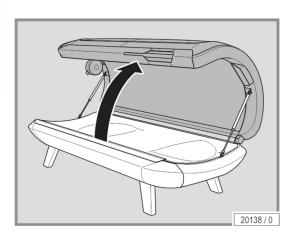
NOTE:

Dispose of the cardboard and pallet. More detailed information can be found in Section 1.5.9 Disposal on page 17.

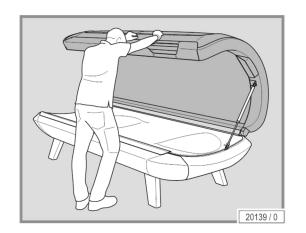


NOTE:

In the event of damage, JK-International GmbH shall assume no liability if the damage is caused by improper setup! Please read these instructions carefully before setup and follow all the steps.



- Open the canopy.



- The canopy must be held up by a second person.





NOTE!

Only gently prop the canopy otherwise it may tip back.

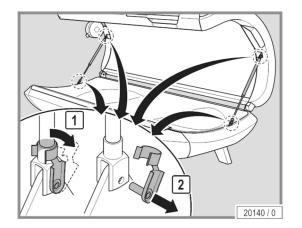


DANGER!



Risk of injury due to mechanical forces!

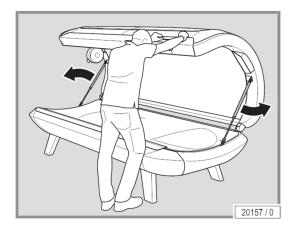
- Always remove the splint and pin when open!



Remove the gas pressure absorber

- Fold down the safety splint.
- Remove the pin.
- Store the safety splint carefully.

There is one safety splint on the top of the gas pressure absorber and one on the bottom.



- Remove the gas pressure absorber.





NOTE:

Place a scratch guard between the canopy and base to avoid damage to the unit.

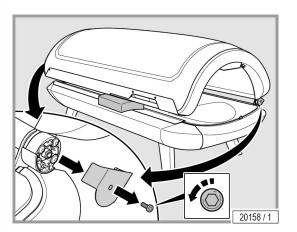
- Close the canopy.





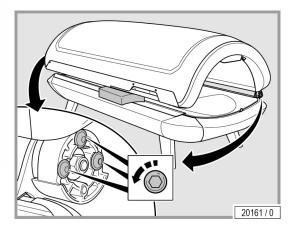
NOTE:

Prepare a clean, soft surface before lifting the canopy. Dimensions: approx.: 1200 mm x 2200 mm (e.g.: unit's cardboard packaging).

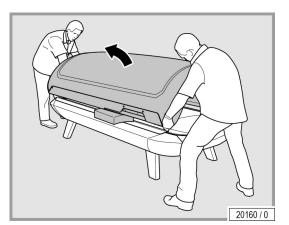


- Loosen the screw.
- Remove the safety cap.
- Store the screw safely.

Tool: 4 mm Allen key



- Release and unscrew the three screws.
- Store the screws safely.
 - ✓ Tool: 4 mm Allen key



This step must be performed by two people!

 Lift up the closed canopy and carefully move it to one side onto a clean, soft surface.





NOTE:

Prepare a clean, soft surface before lifting the canopy. Dimensions: approx.: 1200 mm x 2200 mm (e.g.: unit's cardboard packaging).

2.2 Assembly

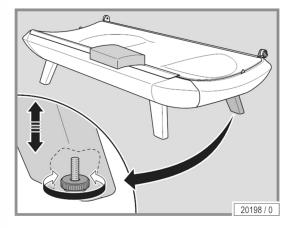


WARNING!

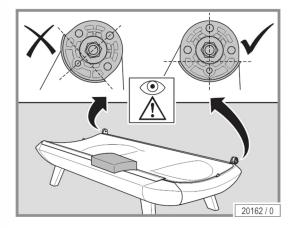


Danger of hand injuries!

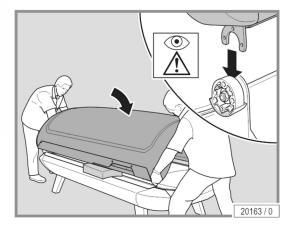
 Wear protective gloves during assembly work to avoid injuries.



- Adjust the right-hand foot at the feet end or the right-hand foot at the head end.
 - ✓ The foot adjustment process is complete when all four feet sit evenly on the floor.

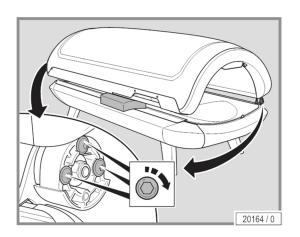


- Position the scratch guard.
- Align the mountings so they are horizontal.



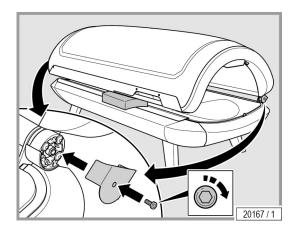
This step must be performed by two people!

Carefully place the canopy's sickle into the mountings on the base.



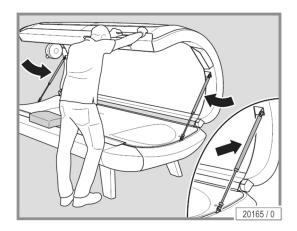
- Tighten the three screws on each one.
 - ✓ Tool: 4 mm Allen key





- Put on the safety cap.
- Tighten the screw.

Tool: 4 mm Allen key

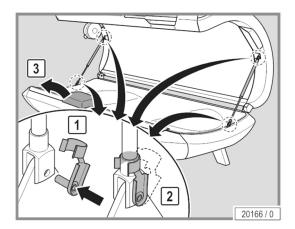


Install the gas pressure absorber

- Place the gas pressure absorber into the mounts.



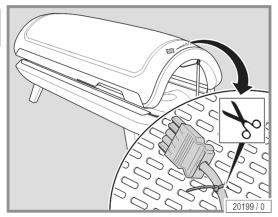
The gas pressure absorber's oil tank must always point upwards.



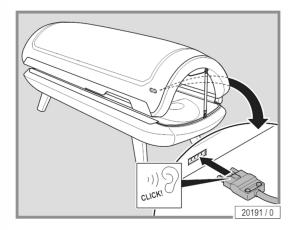
- Place the pin through the clevis.
- Fold in the safety splint.
- Remove the scratch guard.

There is one safety splint on the top of the gas pressure absorber and one on the bottom.

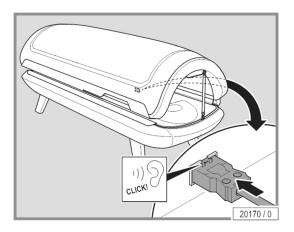




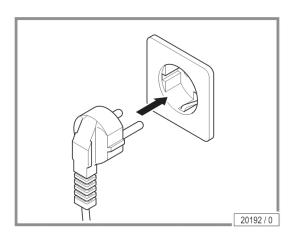
- Cut the cable ties to release the plug from the canopy.
 - ✓ Tool: Scissors or cutter



Insert the canopy's connection plug into the corresponding connector on the base so that it clicks into place.



Insert the mains connector so that it clicks into place.



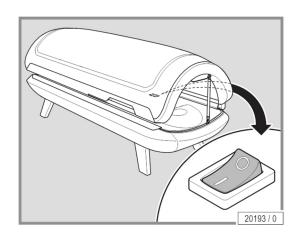
- Insert the Schuko connector into the socket.



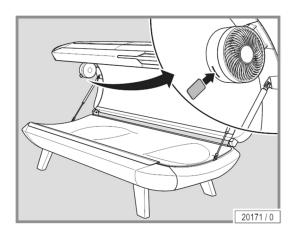


NOTE:

Make sure that the mains plug is always accessible so that the unit can be disconnected from the mains plug. More detailed information can be found in Section 'Commissioning', on page 16).



Set the on/off switch on the back of the unit to 'On'.



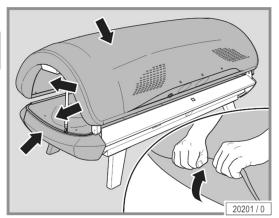
Insert the AROMA card into the opening on the fan.



NOTE:

The films on the acrylic panels must always be removed to ensure that the lamps can work safely. The films on the panels must also be removed straight away to avoid paint damage.





 Remove the protective films on the canopy, base and acrylic panels.



NOTE:

Clean and disinfect the unit thoroughly before using it for the first time. For further information about cleaning the unit, see Section 'Cleaning plan' on page 45.

3 Description



3.1 Scope of delivery

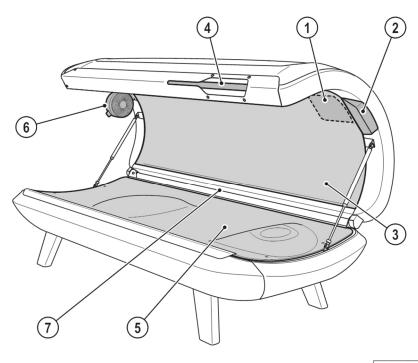
- Tanning device
- Allen key
- UV protective goggles
- Low pressure lamps
- Technical documentation
- AROMA card

3.2 Equipment

The equipment of the units differs depending on the model. In this description, all standard and optional components/functions are taken into account which must be observed during operation and/or when performing maintenance.

The control panel also differs according to the varying equipment: The illustrations only show buttons that can be operated.

3.3 Unit description



- 20110 / 0
- 1. SPECTRA LEDs (depending on the equipment)
- 2. Control panel
- 3. Low-pressure lamps, canopy
- 4. Handle, canopy
- 5. Low-pressure lamps, base
- 6. Body cooling with AROMA
- 7. On/off switch (on the back of the unit)

3.4 Functional description

The primary technical components of a solarium are an artificial source of UV radiation and a mechanical structure with a defined active surface.

Beauty Angel Light SPA is a treat for your skin, using a combination of tanning UV light and the gentle Beauty light. For a gentle, sun-kissed glow.

LightSpa Beauty

LightSpa Beauty looks after the face with UV-free Beauty LEDs (SPECTRA by Ergoline / Beauty). 28 LightSpa CARE tubes tan and pamper he body.

4 Operation



4.1 User safety information



DANGER!



UV radiation

Danger of skin and eye injuries or skin diseases!

Please observe the safety instructions and warnings in chapter 1.

4.2 Tanning - but correctly!

A few things need to be noted in order to obtain maximum enjoyment from a tanning unit. Here are some answers to frequently asked questions.

Make-up on the sunbed?

A wide variety of materials is found in cosmetics. Whether these are emulsifiers, greases, or fragrances — in conjunction with UV radiation, these can cause skin allergy reactions.

For this reason, always use cosmetics that have been specially developed for use in tanning booths.

So, this to-do list is a must before using a tanning unit: Remove all make-up. This is essential. Make-up clogs the pores in the face. The UV light from a tanning unit re-opens these clogged pores so that not only does the light penetrate the skin, but also the allergenic components of the make-up.

A further negative consequence of make-up is that the appearance of the skin deteriorates irreversibly over a period of time. However good decent make-up looks - in conjunction with UV light, it causes more harm than good. Therefore: Remove all make-up before a session on your sunbed - it will be much better applied afterwards.

Showering after leaving the sunbed?

The browning is in the skin, not on it. Therefore you cannot wash it off. Treat your skin to a moisturizing cream after showering.

Are medications and the sunbed compatible?

It is known that some medicaments increase the skin's sensitivity to UV light. This probability is particularly high with antibiotics, sulphonamides, psychiatric drugs, tranquillizers, anti-diabetes treatments and diuretics. Sun creams which contain psorale or kumarin also increase skin sensitivity. If you are in any doubt, first ask your doctor - then you can enjoy the sun at no risk.



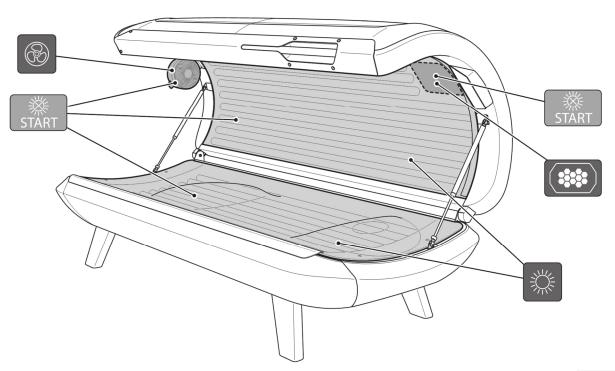
Contact lenses on the sunbed?

The answer is: Yes! Like any other tanning unit user, contact lens wearers should also wear special protective goggles which protect the eyes against UV radiation. To guarantee better protection, wearers of spectacles and contact lenses can ask their optician for exchange contact lenses with UV protection. The UV-A and UV-B filters built into exchange contact lenses will protect the cornea and the internal parts of the eye against almost 100 % of the energy in UV radiation.

This will benefit tanning unit users not only in the open air, but on the tanning unit itself. You can wear these contact lenses on the tanning unit without any restrictions. For more information, ask your optician or optometrist.

4.3 Operating overview



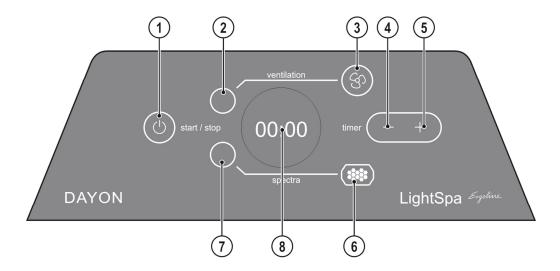


20112 / 0

Symbol	Information
START	START/STOP
	Body cooling
	LED lamps
	Lamps

4.4 Functions





20113 / 0

INTERIOR DISPLAY

- 1. START / STOP BUTTON
- 2. BODY COOLING (display)
- 3. BODY COOLING (button)
- 4. MINUS (button)
- 5. PLUS (button)
- 6. SPECTRA LEDs (button) (not in LightSpa Soft)
- 7. SPECTRA LEDs (display) (not in LightSpa Soft)
- 8. Tanning time / Fan / SPECTRA LEDs display

4.4.1 Navigation

Icon selection / Key sequence	Description/display	Information
+	PLUS button	Pressing this button changes the time setting.
	MINUS button	Pressing this button changes the time setting.
- +	Time setting 00:00 02:00	In standby mode, press the plus or minus button to change the time. Pressing and holding the plus or minus button for 2 seconds makes the minutes go up or down faster.
\bigcirc	START/STOP button 10:00	Pressing the button after setting the time starts the unit. The unit stops.
	Press the START/STOP button for 3 seconds.	•
00:00	Standby without button lock.	The unit is ready for operation.
	Standby with button lock.	Press and hold the button for 3 seconds deactivates the button lock for 60 seconds.
	SPECTRA LEDs button ON OFF OFF	Pressing the button turns the SPECTRA LEDs on or off. ON/OFF
(G)	BODY COOLING button	Pressing this button changes the fan speed. Levels 0–3

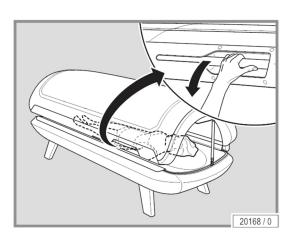


4.4.2 Info / Maintenance / Button lock



Icon selection / Key sequence	Description/display	Information
(G)	10 seconds after the last button is pressed, the unit automatically switches to standby mode; the current settings are adopted.	Press and hold for 3 seconds. The second s
	Resetting the lamp runtime after replacing a lamp:	Press for 3 seconds to reset the lamp's operating hours.
	Deactivating the button lock:	Press for 3 seconds to lock the unit.
	Activating the button lock:	Press for 3 seconds to unlock the unit.
	Operating hours display:	Shows the unit's total operating hours.
	Recommended lamp replacement display: 00:00	Replace a lamp and then reset the lamp runtime.
	Software version display: Software oversion display: Software version display: Software version display:	Shows the unit's software version. Press briefly for the unit status: Standby mode.

4.5 Start



- Close the canopy.
- Press the START/STOP button.

Upon starting the following functions are activated:

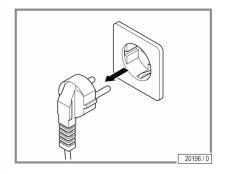
- Lamps and SPECTRA LEDs
- Body cooling



5 Cleaning and maintenance



5.1 Safety instructions when undertaking cleaning or maintenance work







Electricity is present throughout the entire unit! Danger to persons due to electric shock and risk of burns.

 Disconnect the mains plug before performing any work on the unit!

5.2 Faults

If the INTERIOR DISPLAY does not show 00:00 within 5 seconds:

- check the mains plug,
- switch the On/Off switch to 'On',
- please contact Customer Service.

5.3 Cleaning



DANGER!



Infections can be spread by skin contact!
All objects/unit parts that could come into contact with the user during tanning must be disinfected after every tanning session:

- Acrylic glass panel
- Handles and control panel
- UV protective goggles

5.3.1 Disinfection

We recommend a suitable rapid disinfectant as a cleaning agent for rapid and thorough disinfection.





NOTE:

- To ensure thorough disinfection, always adhere to the contact time specified for the disinfectant. Follow the manufacturer's instructions for use.
- After the prescribed contact time, remove any remaining residues of the cleaning/disinfecting agents.
- Use a soft, clean single-use paper towel for this purpose.
- Carry out a visual inspection. Repeat the cleaning procedure if you find dirty areas or residues of the cleaning/disinfecting agent.
- Carry out a further visual inspection.



5.3.2 Cleaning the surfaces

Acrylic glass surfaces

A CAUTION!



Do not rub dry – danger of scratching! Failure to observe this will invalidate all guarantee claims.

- Only use a rapid surface disinfectant for acrylic glass panels for fast, hygienic proper cleaning of acrylic glass surfaces.
- Do not use disinfectants or solvents (e.g. Lysoform, ethyl alcohol, or other fluids containing alcohol).

Acrylic glass panels unusable due to soiling! Soiling on the panels is burned in by the hot lamps and results in the long term in unserviceable panels.

 Remove fingerprints, cleaning residues and other soiling carefully.



12431 / 0

Plastic surfaces

To clean the painted and unpainted plastic surfaces, it is best to simply use warm water and a soft leather cloth. Never use alcohol-based aggressive cleaning agents or essential oils. These cause damage that is not covered by warranty claims.

Prevent damage to the acrylic glass and plastic surfaces.

- Before starting the cleaning process, remove any rings, watches, bracelets, etc.

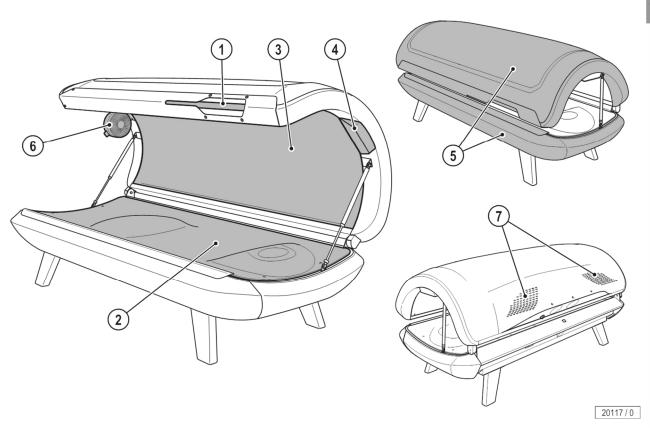
5.3.3 Lamps

 Low pressure lamps can be cleaned with a damp cloth and without additional cleaning agents where necessary.

Please note the cleaning schedule and the cleaning intervals specified in Section 'Cleaning plan' on page 45.

5.4 Cleaning plan





	Component	Interval		Activity	See page
		After each use	As necessary		
1	Handle	Χ		Clean and disinfect	42
2	Acrylic glass panel	Χ		Clean and disinfect	44
3	Canopy panel		Χ	Clean	44
4	INTERIOR DISPLAY	Χ		Clean and disinfect	42
5	Surfaces		Χ	Clean	44
6	Fan		Χ	Clean	42
	Protective goggles	Χ		Clean and disinfect	42
7	Ventilation slots		Χ	Clean (vacuum)	55



5.5 Maintenance

Maintenance and care play a major role in deciding whether the unit meets the requirements placed on it in a satisfactory manner. Compliance with the specified maintenance intervals and thorough maintenance and care are therefore absolutely essential.

For commercial use, we would like to point out that the unit must be subjected to regular inspections by our customer service or an approved specialized company every 12 months (from commissioning) to maintain its proper condition!

Any inspections and maintenance work must be entered into the unit, operating and service log (Order no. 1010363-..).

5.5.1 Acrylic glass



WARNING!



Cosmetics may cause cracks to form on the surface! Over the long-term cosmetics or sunscreens cause damage (e.g. crack formation on the surface).

Ensure that cosmetics and sunscreens are removed before tanning.

The acrylic panels are made of acrylic glass that is specially developed for this field of application. The acrylics used are characterised by a particularly high UV permeability and resistance, as well as an easy-care, hygienic surface that is agreeable to the skin.

The acrylic glass panels are formed to device-specific shapes in a technically complex production process. Despite state-of-the-art production know-how, the presence of minor spots, air bubbles or streaks in the acrylic panels is unavoidable. In addition, hairline cracks can occur on the acrylic glass panel during operation.

These occurrences are material-related and are unavoidable in processing. However, they have no significant effect on use and are therefore not accepted as defects.

Over the course of time the acrylic glass panels become more translucent as a result of usage and must be replaced on a regular basis according to the maintenance schedule for wear parts.

5.6 Maintenance schedule for wear parts



WARNING!



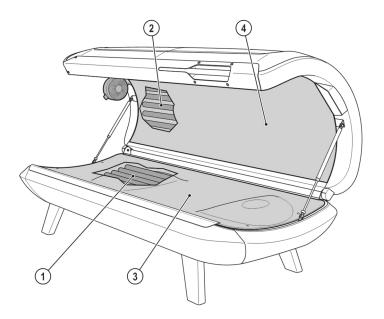
Only use genuine spare parts of the same type! If other parts are used then the device no longer complies with the conformity declaration and may not be operated any longer!

Any liability for damage or injury proven to be the result of the use of non-genuine spare parts is excluded.



NOTE:

This maintenance schedule applies to both private users and operators alike.



20118 / 0

	Component	Interval		Activity	See page
		600 Operating hours	5000 Operating hours		
1	Low-pressure lamps, base	Χ		Replace	54
2	Low-pressure lamps, Canopy	Χ		Replace	54
3	Acrylic panel, base		Χ	Replace	54
4	Acrylic panel, canopy		Χ	Replace	54



Maintenance by authorised, trained and qualified personnel for the operator or private user:

CAUTION!



Danger to people due to maintenance work not car-

If the maintenance work is not carried out, material damage and personal injury may occur!

- Maintenance work may only be carried out by persons who have been authorised, trained and qualified by JK-International GmbH, JK-Global Service department!
- The operator or private user is responsible for compliance with the maintenance intervals!

When the unit reaches an age of 10 years after the date of manufacture or after 20,000 operating hours, the condition of the unit must be assessed by a certified service technician from JK-International GmbH, JK-Global Service Department before the unit may be used further.

Failure to have this unit assessment performed may result in personal injury or property damage.

Any liability is excluded if use of the unit continues ten (10) years after the date of manufacture, without the "condition assessment" having been performed.

Maintenance by authorised, trained and qualified personnel for the operator

CAUTION!



Danger to people due to maintenance work not carried out!

If the maintenance work is not carried out, material damage and personal injury may occur!

- Maintenance work may only be carried out by persons who have been authorised, trained and qualified by JK-International GmbH, JK-Global Service department!
- The operator is responsible for compliance with the maintenance intervals!

The maintenance work must be carried out in accordance with checklist 1019858-.. by a JK Factory Certified Technician at the manufacturer or by personnel who have been authorized, trained and qualified by the manufacturer.

The correctly carried out maintenance work must be entered and confirmed in checklist 1019858-..

The maintenance work must be carried out after the following intervals:

- After 3000 operating hours
- After 5000 operating hours
- After 10 years or 20,000 operating hours, whichever occurs first.

5.7 Disassembly for maintenance and cleaning work



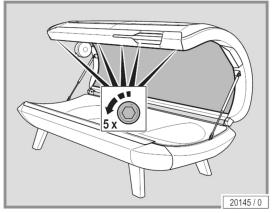
5.7.1 Removing the canopy panel



NOTE:

The base panel must be closed before the canopy panel is dismantled.

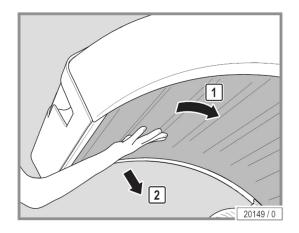
Release and unscrew the five screws.



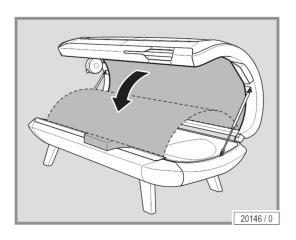


NOTE:

Remove the outside screws first and then remove the screws in the middle.

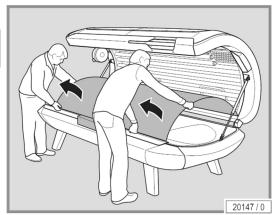


 Push the canopy panel to the rear with one hand and pull it out of the front guide.

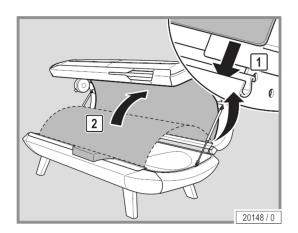


- Carefully lay the panel aside on the scratch guard.





- Remove the canopy panel with the aid of a helper.

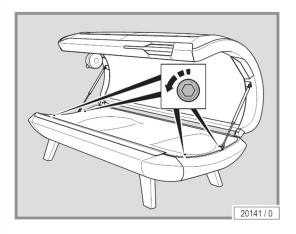


The assembly is the same process in reverse order. When assembling please note:

- Use the scratch protection.
- Carefully lay the canopy panel in the guide.
- Remove fingerprints and other soiling carefully.



Removing the acrylic glass panel

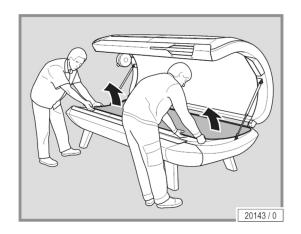


- Remove the screws and remove the washers.

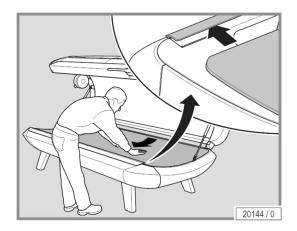


- Push the base panel to the rear with one hand and pull it out of the front guide.





 With a second person to help you, remove the base panel and carefully place to one side.



The assembly is the same process in reverse order. When assembling please note:

- Carefully lay the panel in the guide.
- Remove fingerprints and other soiling carefully.



5.8 Instructions for replacing the lamps



DANGER!



Danger of burns from hot lamps and surfaces! Finger and hands may get burned when replacing lamps.

 Before carrying out maintenance work, wait until the device has cooled down sufficiently.



NOTE:

Small quantities of mercury can escape if the bulb/lamp glass breaks! Please comply with the following instructions:

- Remove the mains plug immediately.
- Children must leave the room immediately.
- Ventilate the room for at least 15 minutes.
- Put on disposable gloves.
- With the window open: Collect the glass shards and escaped mercury in a sealable container.
- Bring the container to a collection site for waste lamps.

5.8.1 Low-pressure lamps

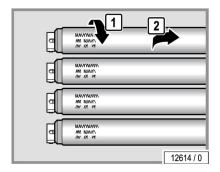
DANGER!



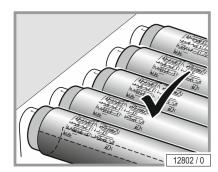


Danger of burns from hot lamps and surfaces! Finger and hands may get burned when replacing lamps.

 Before carrying out maintenance work, wait until the device has cooled down sufficiently.



- Replace faulty low-pressure lamps immediately.
- Always replace the entire set of lamps after the specified operating time.
- Turn 90° and carefully remove from the socket.



- Low-pressure lamps possess a reflector which directs the light outwards.
- The lamps must be mounted in such a way that the rear side of the reflector is located on the inside of the unit.

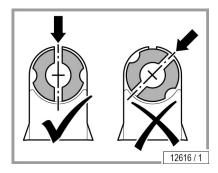


DANGER!



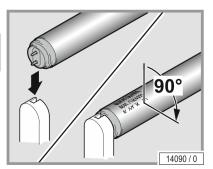
Risk of fire due to incorrect alignment of the lamps! Incorrect alignment of the lamps leads to loose connections. This can cause overheating and sparking.

Check that the socket is correctly aligned!

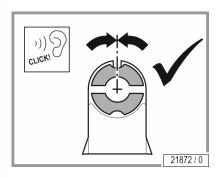


 Before inserting the new lamp, the alignment of the inner part of the socket must be checked.





- Insert the contact pins of the lamps vertically into the socket from above.
- For correct contacting, the lamp must be rotated 90° around its own axis.
- The lettering must be oriented towards the outside (i.e. towards the tanning room or towards the user).



5.9 Cleaning or replacing lamps in the base

See Section 'Removing the acrylic glass panel', page 50.

Replacing lamps: see page 53.

5.10 Cleaning or replacing lamps in the canopy

Removing the canopy panel: see page 49.

Replacing the lamps:

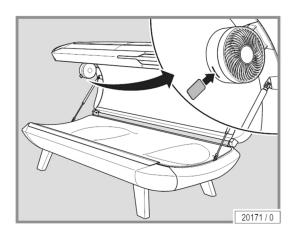
Low-pressure lamps: see page 53.

Depending on the equipment, the following components listed in the maintenance plan are fitted in the canopy:

- Low-pressure lamps 1.90 m
- Low-pressure lamps 1.60 m

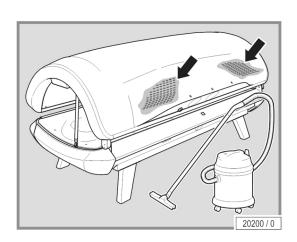
5.11 Changing the AROMA card





Insert the AROMA card into the opening on the fan.

5.12 Cleaning the ventilation slot



- Use a vacuum cleaner to clean the ventilation slot.

6 Technical data



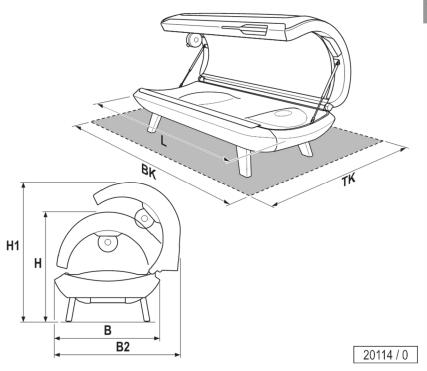
6.1 Power, connection rating and noise level

Beauty Angel Light SPA		
Power consumption rating:	3000 W	
Rated frequency:	50 Hz	
Rated voltage:	230 V ~1	
Rated fuses:	1 x B16A	
Connection type for DE/NL/AT: Connection type for CH:	Earthed plug (Type F) ¹ Hexagonal plug with 3 round contacts arranged in a triangular pattern (type 23)	
Load on the acrylic glass panel:	max. 135 kg	
Weight:	150 kg	

1) The scope of delivery includes a power cable with Schuko plug (type F).

6.2 Dimensions





B = 925 mm
H = 971 mm
H1 = 1236 mm
B2 = 1118 mm
L = 2160 mm
BK = 2400 mm

1500 mm

TK =



6.3 Lamp sets

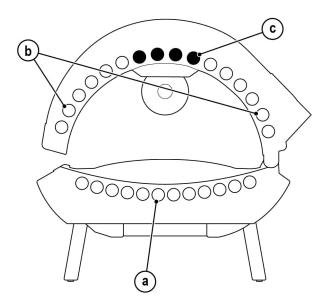
__ CAUTION!



The EC conformity declaration applies for the specified lamps. The operating licence is invalidated if other lamps are used.

Moreover lamps must be marked with a matching equivalence key, see attachment page 60.

6.3.1 Beauty Angel Light SPA



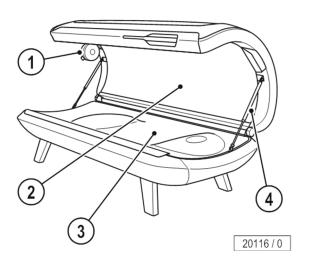
20115 / 0

Lamp set (UV type 3)

	Number	Description	Length	Power	Control	Order-no.
a)	12	Low-pressure lamps LightSpa BEAUTY by Ergoline R 100 W	1,80 m	100 W	100 W	1515513
b)	12	Low-pressure lamps LightSpa BEAUTY by Ergoline R 120 W	1,80 m	120 W	120 W	1515514
c)	4	Low-pressure lamps LightSpa BEAUTY by Ergoline R 120 W	1,60 m	120 W	120 W	1515515

6.4 Spare parts, wear parts and accessories





	Number	Description	Order-no.
1	1	Scent card	1514150
2	1	Canopy panel	1514013
3	1	Base panel	1514018
4	1	Gas pressure spring	1513924
	1	Mains power cable with Type F safety plug	1503304
	1	Mains power cable with Type 23 safety plug	1027142
	1	SW4 Allen key with T-handle	84500
	1	UV protective goggles	1027147

Appendix



7.1 Equivalence key range

Example for calculating the equivalence key range (1), see the lamp configuration sticker:

If the equivalence key of the lamp with which the device has been equipped during the type approval is

the equivalence key range with which the device should be marked is calculated as follows:

Bottom value of the X section: $0.75 \times 47 = 35.25$ Bottom value of the Y section: $0.75 \times 2.7 = 2.03$ $1,25 \times 2,7 = 3,38$ Top value of the Y section:

X is rounded up to the next whole value, Y will be rounded to the first decimal place after the point.

The equivalence key range for fluorescent lamps is then:



7.1.1 Description of the equivalence keys for fluorescent lamps



The equivalence key for fluorescent lamps for tanning that is represented in detail in the IEC 61228 and that is marked on the lamp in a readable and permanent manner, is described in the following.

The equivalence key has the following structure:

Wattage – Reflector type key – UV key.

The following reflector type key should be used for the equivalence key:

O with lamps without reflector;

B with lamps that have a wide reflecting angle $\alpha > 230^{\circ}$;

N with lamps that have a narrow reflecting angle α < 200°;

R with lamps that have the usual reflecting angle $200^{\circ} \le \alpha \le 230^{\circ}$.

The following UV key should be used for the equivalence key:

UV key = X/Y;

X = the entire effective erythematic UV radiation strength across the range 250 nm to 400 nm;

Y = the relationship of the non-melanoma skin cancer effective UV radiation strength \leq 320 nm and > 320 nm.

X is specified in mW/m² and rounded up to the next whole value, Y will be rounded to the first decimal place after the point. The effective values apply for a distance of 25 cm and under the conditions of an optimum UV radiation strength.

Note

One example for an equivalence key is specified below:

- 100 W reflector lamp with a reflector angle of 220°
- erythematic UV radiation strength (250 nm to 400 nm) = 47 mW/m²
- short wave NMSC effective UV radiation strength (≤ 320 nm) = 61 mW/m²
- long wave NMSC effective UV radiation strength (> 320 nm) = 19 mW/m²
- lamp equivalence key: 100–R–47/2,7

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