



Operating instructions

Translation of the original operating instructions

RedWave Plus System

1032486-01A / en / 09.2026

wellsystem

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:

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



This device is designed to apply near-infrared and red light technology to one person at any one time. More detailed information can be found on page 8.

Infants and small children up to age 7 may not utilize this unit.

Adolescents up to the age of 17 years are only allowed to use the unit in agreement with a parent or guardian, or after consulting a doctor.

Some people are not permitted to use the unit, see Section '1.4.1 RedWave Plus system'.

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!

A person responsible for their safety must ensure, through supervision or instruction, that the unit is used correctly and safely.

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. Otherwise the bed panel could break and cause injuries.
- People with a body weight of more than 150 kg may not use the unit. Otherwise the bed panel could break and cause injuries.
- 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.
- 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 Safety information for the RedWave Plus system

1.4.1 RedWave Plus system

The following people may not use the unit:

- Pregnant women
- People with epilepsy
- People with acute illnesses
- People with feverish illnesses
- People with acute vein thrombosis
- People with xeroderma pigmentosum
- People who are taking azathioprin or thiopurine
- People who suffer from porphyrias / heme bio-synthesis disorders
- People who have or had skin cancer
- People with an increased risk of contracting skin cancer (e.g. somebody in the family has had skin cancer)
- People with acute sunburn
- 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 which cause light sensitivity
- People who take medication or herbal remedies which cause light sensitivity (e.g. antibiotics, antirheumatic agents, antifungal agents or St. Johns wort)
- People with illnesses of the immune system / auto-immune diseases
- People with collagenosis (e. g. lupus erythematoses, 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

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:

- Never use the unit when the housing is broken or damaged, or the timer is faulty!



An application is not recommended in the following circumstances:

- If you have utilized an oxygen facial pack in the last 24 hours,
- If your skin has undergone electrical muscle stimulation (EMS) in the last 24 hours
- If your skin has been scoured,
- If you have received an injection in the last 24 hours.

Behaviour before, during and after an application:

- When the unit is in use no other people may remain in the room, in particular children.
- Remove all jewellery (including piercings) before treatment.
- Remove all make-up in good time prior to treatment and do not apply any SPF or sun screen.
- Due to the intensity of the light, we recommend keeping your eyes closed during the treatment. To make your experience more enjoyable, we also recommend wearing protective goggles.
- Please observe the recommend treatment lengths.

1.4.3 Application times

We recommend using the unit for between 15 and 30 minutes.



1.5 Safety instructions and warnings

1.5.1 Operator's obligations

As the operator you are responsible for providing clear operating, cleaning and maintenance instructions and ensuring the intended use and the proper operation of the unit by means of training and instruction for the personnel.

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

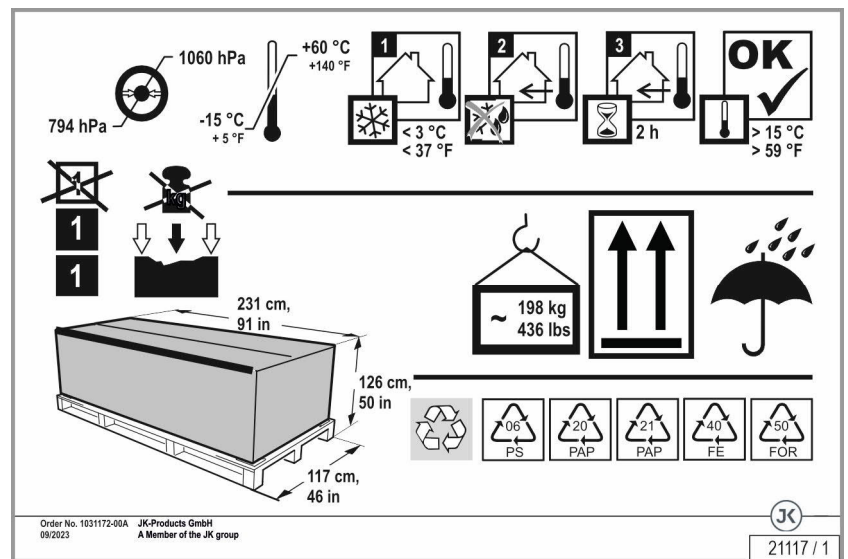
As the operator, you are obliged to train your personnel and instruct them in the existing legal and accident prevention regulations. Ensure that your staff have understood and observe these operation instructions. This applies, in particular to the

- Information in 'Intended use' and 'Foreseeable misuse'
- Safety instructions in the chapter "Operation"
- Operating instructions
- Cleaning and maintenance instructions
- Please make the operating instructions and additional information from the manufacturer available to the personnel at their workplace.
- Regularly check your staff'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 session.
- Ensure that your staff provide customers with appropriate advice, in particular regarding the application times, possible risks and operation of the unit.

1.5.3 Scope of delivery

Information regarding the scope of delivery is contained in the 'Description' chapter on page 21.

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



DANGER!



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 residual-current 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 41).
- Risk of fire from overheating! Never use multi-plugs, socket boards and extension cables.



Ventilation

WARNING!



Risk of overheating due to air flow problems!

Operating faults possible.

- 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 12).

Setup location

WARNING!



Salty air! Contaminated air!

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

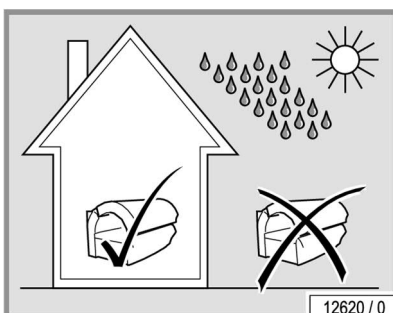
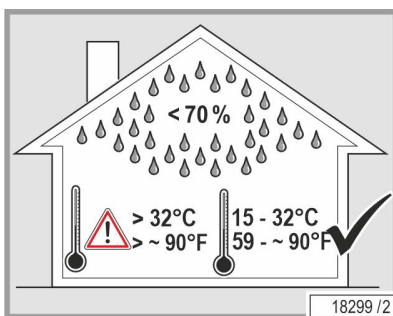
Possible damage to the unit!

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.



The unit must not be connected to the mains socket if the mains plug or cables are damaged. The mains power cable must be replaced with a special power cable available from the manufacturer or its customer service department.

Order no. for mains power cable: see table on page 43.



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 RedWave Plus 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.



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.

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!

The unit is only to be used if it is in perfect working order!

Do not allow children to play with the unit. Cleaning and user maintenance tasks must not be carried out by children.

During longer periods of absence or during operating interferences, pull out the mains plug to disconnect the unit from the power supply.



NOTE:

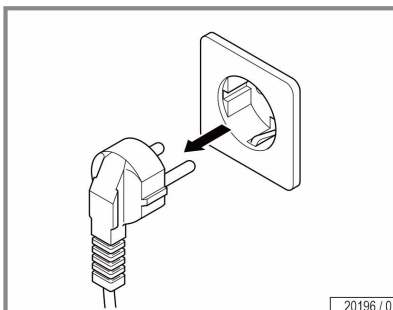
If a fire is suspected, immediately disconnect the power supply as long as this is safely possible.

Continue to observe all regulations required by law, public authorities and employer's liability insurance associations, which remain unaffected by the aforementioned instructions.

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

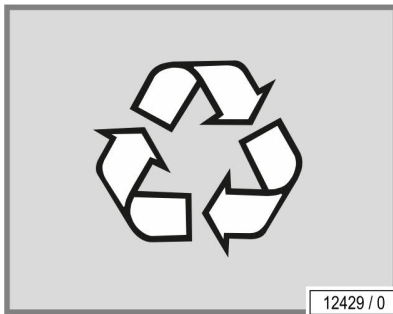
1.5.9 Disposal

Environmental regulations – disposal of batteries

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

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.



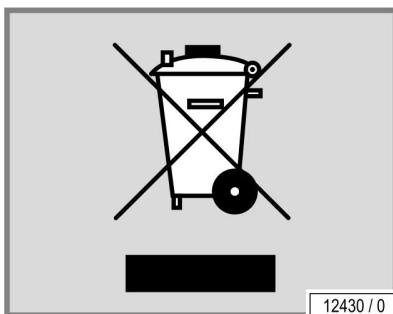
Disposal of old units

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 assume all obligations in connection with the German Electrical and Electronic Equipment Act.

Registry number JK-Products GmbH (units):
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

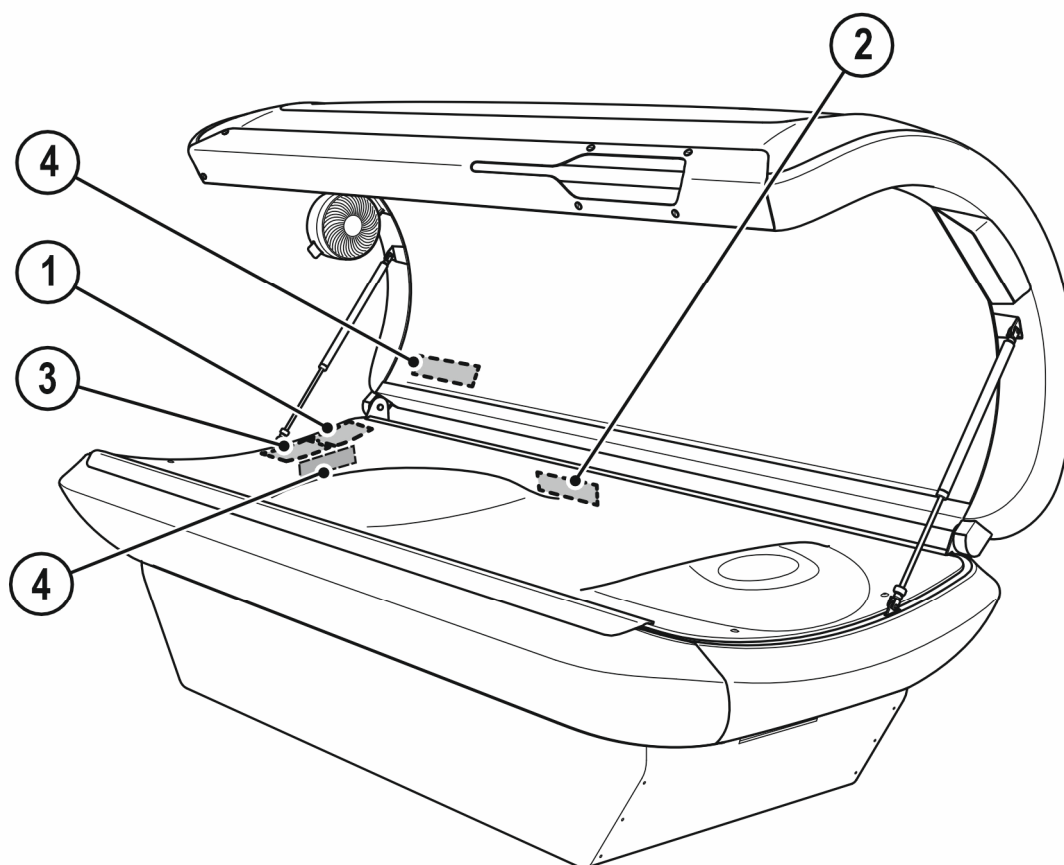
The unit is built according to the state of the art and the valid safety regulations. The illustrations and specifications on these operation instructions are subject to technical modifications which are required in order to improve the unit.

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.



21316 / 0



1: EU warning sticker (1026852-..)

WARNUNG:

Bitte Gebrauchsanweisung/ JK-Schutzhinweise aufmerksam lesen. • Zum Schutz vor hellem Licht müssen während der Anwendung die Augen geschlossen und ein Augenschutz getragen werden. • Auf keinen Fall das Collagen-Gerät benutzen, wenn Personen bestimmte Medikamente einnehmen die Lichtempfindlichkeit verursachen. • In Zweifelsfällen ärztlichen Rat einholen!

WARNING:

Please read the operating instructions/JK protection advice carefully. • In order to protect your eyes against the bright light, your eyes must be closed and eye protection must be worn during the application. • People who take medication that may cause light sensitivity are not allowed to use the collagen device. • Seek medical advice if in doubt!

XXXXXX-03-

12226 / 0

This sticker also includes the language form 1512793-.. (see accessories Technical Documentation).

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

2: 'No export USA/Canada' sticker (84829-..)

HINWEIS

Wir weisen darauf hin, daß die Geräte nicht in die USA oder nach Kanada exportiert und dort betrieben werden dürfen. Bei Nichtbeachtung dieses Hinweises wird keine Haftung übernommen.

NOTE

We emphasize that these devices must not be exported to or operated in the USA or Canada! The manufacturer does not accept any liability in case of non-observance of this notice!

REMARQUE

Nous attirons votre attention sur le fait que les appareils ne doivent pas être exportés ni utilisés aux Etats-Unis ou au Canada! Nous ne pourrions nullement être tenus responsables de dommages si cette remarque n'est pas respectée!

11977 / 2

The sticker is located on the back of the base.

3: Type plate

Ergoline

JK-Products GmbH
53578 Windhagen / Germany

2011

Typ: 100001410

Art-No.: 00000000

Serial-No.: 00000000

Spannung/Voltage ~

400 - 415V 3N~ / 50Hz

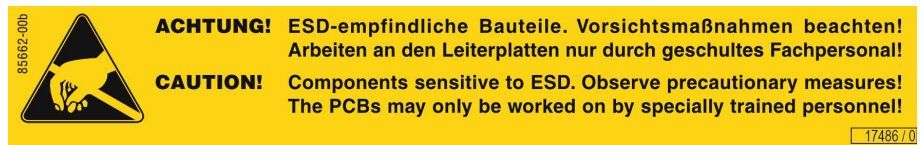
Lstg./Input

60000 W

11991 / 2

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, consumables (aroma) or acrylic glass panels.

Should the product contain faults, JK-International is entitled and obliged 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 Description



2.1 Scope of delivery

- RedWave device
- Allen key
- Protective goggles
- Technical documentation
- Connecting lead

2.2 Equipment

The equipment of the units differs depending on the model.

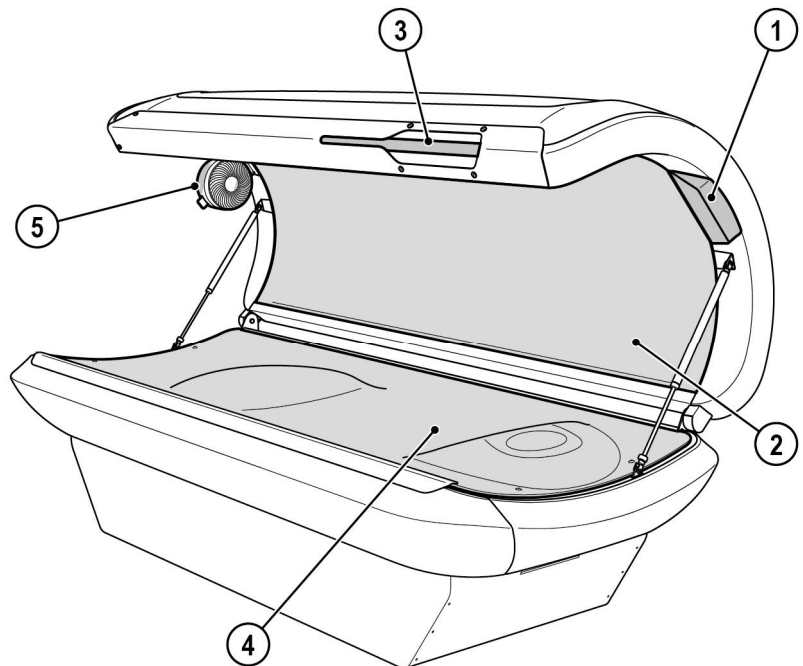
In this description, all standard and optional components/functions are taken into account which must be observed during operation and/or when performing maintenance.

The control panel also differs according to the varying equipment:

The illustrations only show buttons that can be operated.



2.3 Unit description



21159 / 0

1. Control panel
2. Red light & near-infrared LEDs, canopy
3. Handle, canopy
4. Red light & near-infrared LEDs, base
5. Body cooling with AROMA

2.4 Functional description

The combination of red light and near-infrared offers a range of bio-positive effects for the body.

3 Operation



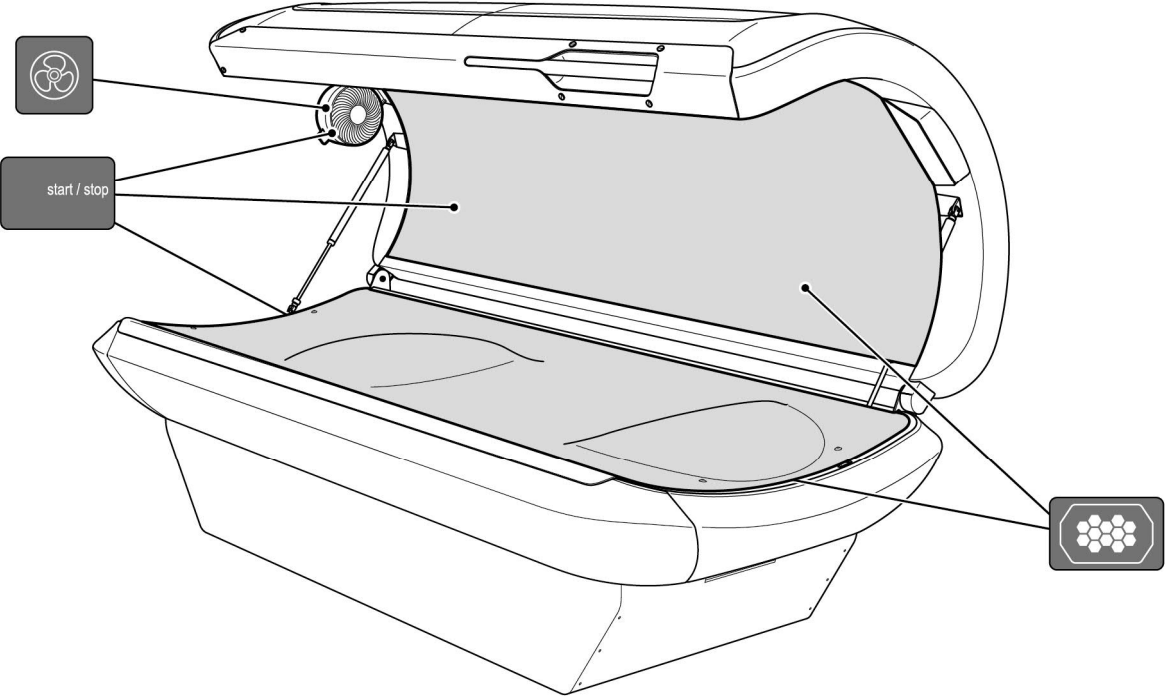
3.1 User safety information

3.1.1 RedWave Plus system

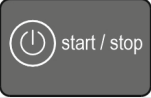
Please observe the safety instructions and warnings in chapter 1.

- During the application no other people may remain in the cabin, in particular no children.
- Remove all jewellery (including piercings) before the application.
- Remove cosmetics before using the device and do not use sun screen products.
- Wear protective eyewear that limits or reduces the intensity of bright light and these wavelengths during use.
- Always comply with the recommended application times.

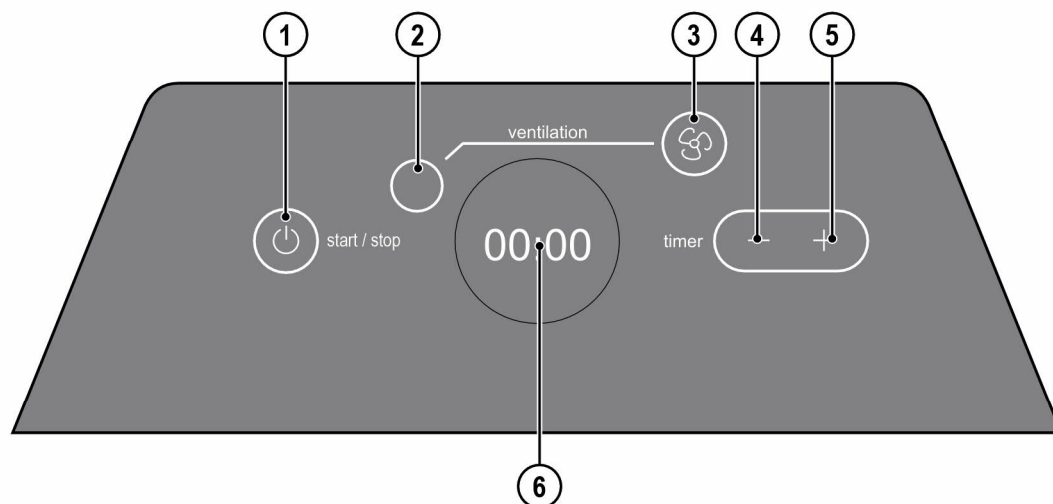
3.2 Operating overview



21317 / 0

Symbol	Information
	START/STOP Red light & near-infrared LEDs
	Body cooling

3.3 Functions

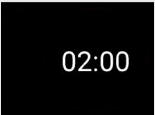
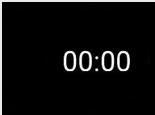
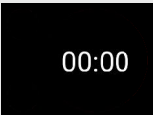
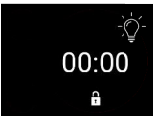
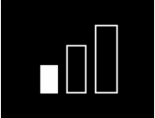
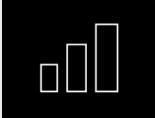


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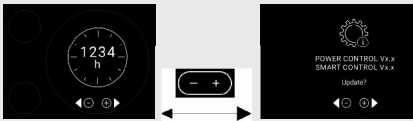
INTERIOR DISPLAY

1. START / STOP BUTTON
2. BODY COOLING (display)
3. BODY COOLING (button)
4. MINUS (button)
5. PLUS (button)
6. Display

3.3.1 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		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.
 	START/STOP button		Pressing the button after setting the time starts the unit. The unit stops. Press the START/STOP button for 3 seconds. Unit status: Standby
	Standby without button lock.		The unit is ready for operation.
	Standby with button lock.		 Pressing and holding the button for 3 seconds deactivates the button lock for 60 seconds.
 	BODY COOLING button		 Pressing this button changes the fan speed. Levels 0–3

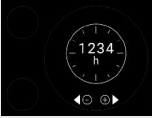
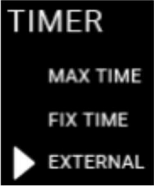
3.3.2 Info / Maintenance / Button lock

Icon selection / Key sequence	Description/display	Information
	Info mode	 Press and hold for 3 seconds.  or press  
	Activating the button lock:	  Press for 3 seconds to unlock the unit.
	Operating hours display:	Shows the unit's total operating hours.
	Software version display:	Shows the unit's software version.
		 Press briefly for the unit status: Standby mode.



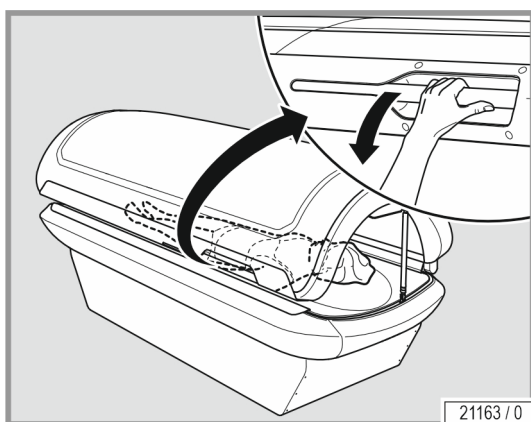
NOTE:
The unit automatically switches to standby mode 10 seconds after the last button was pressed; the settings currently selected are saved.

3.3.3 Time setting / External time setting

Icon selection / Key sequence	Description/display	Information
	External time control	 Press and hold for 3 seconds.  or press    
	Activating external time control:	  Press and hold for 3 seconds to change the mode.  External time control is activated.
	Activating the maximum application time, for example:	  Press and hold for 3 seconds to change the mode.  The maximum application time is activated.
	Setting the maximum application time:	    Press and hold for 3 seconds to change the time. The time changes by 5 minutes each time this action is taken (min. 5 min., max. 60 min.).

Icon selection / Key sequence	Description/display	Information
	Setting a fixed application time:   	 Press and hold for 3 seconds to change the fixed time. The time changes by 5 minutes each time this action is taken (min. 5 min., max. 60 min.).  This function is not available for this unit.

3.4 Start



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

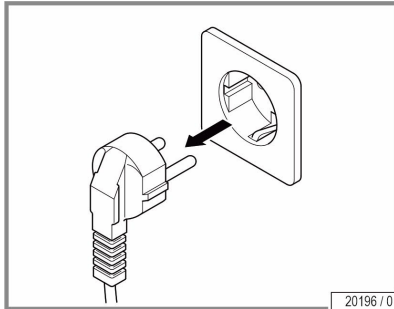
When started, the following functions are activated:

- Red light & near-infrared LEDs

4 Cleaning and maintenance



4.1 Safety instructions when undertaking cleaning or maintenance work



DANGER!



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!



NOTE

Disconnect the plug connection so that the operator/private user is able to check whether the plug is still disconnected from any location that is accessible to them.

4.2 Faults

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

- Check the mains plug,
- Please contact Customer Service.



4.3 Cleaning



DANGER!



Infections can be spread by skin contact!

All objects / unit parts that may come into contact with the user during use must be disinfected after every use:

- Base panel and entry area
- Handles and control panel
- Protective goggles

4.3.1 Disinfection

We recommend a suitable rapid surface 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.



4.3.2 Cleaning the surfaces

Acrylic glass surfaces



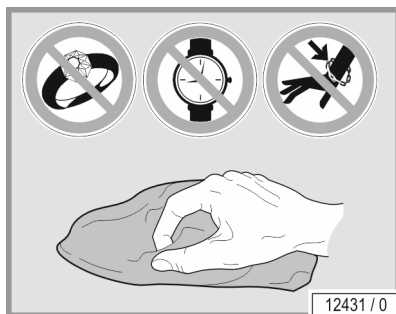
Do not rub dry – danger of scratching!

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 rendered unusable due to contamination!

- Remove fingerprints, cleaning residues and other soiling carefully.



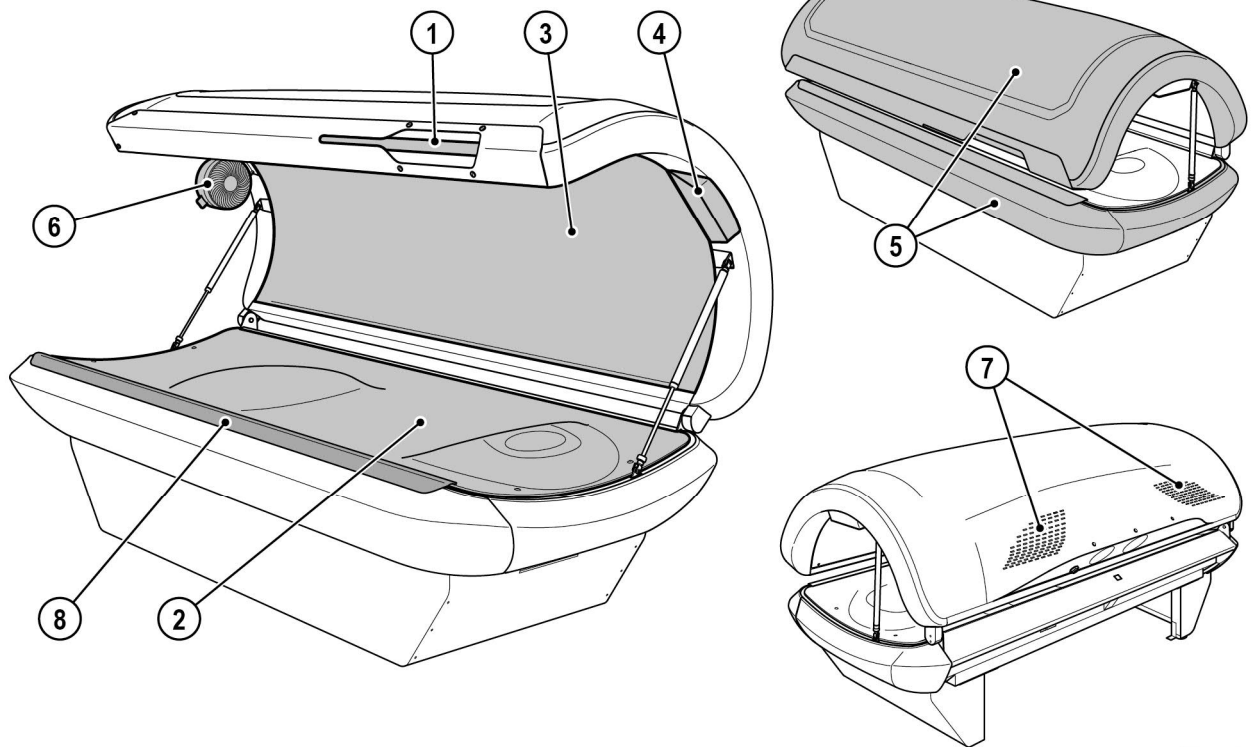
Plastic surfaces

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.

4.4 Cleaning plan



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Component		Interval		Activity	See page
		After each use	As necessary		
1	Handle	X		Clean and disinfect	31
2	Acrylic glass panel	X		Clean and disinfect	32
3	Canopy panel		X	Clean	32
4	INTERIOR DISPLAY	X		Clean and disinfect	31
5	Surfaces		X	Clean	32
6	Fan		X	Clean	31
	Protective goggles	X		Clean and disinfect	31
7	Ventilation slots		X	Clean (vacuum)	40
8	Entry area	X		Clean and disinfect	31



4.5 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. 1019967-..).

4.5.1 Acrylic glass

WARNING!



Cosmetics may cause cracks to form on the surface!
Cosmetics or sunscreen products lead to damage over the course of time (e. g. cracks on the surface).

- Ensure that cosmetics and sunscreens are removed before the application.

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.

4.6 Maintenance schedule for wear parts



WARNING!



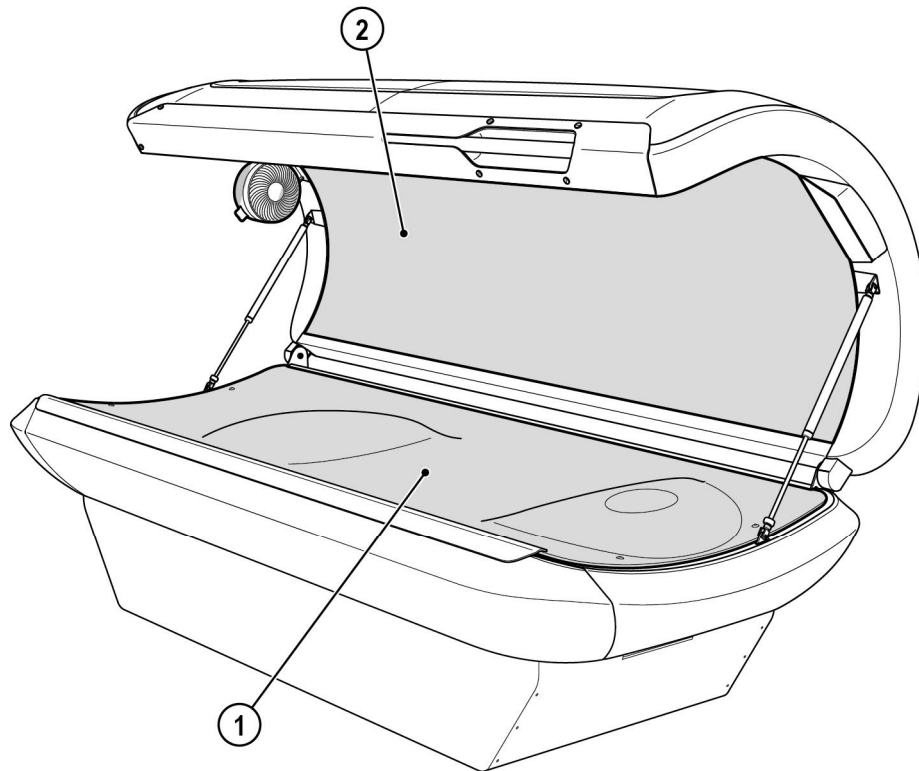
Only use genuine spare parts of the same type! If other parts are used then the device no longer complies with the conformity declaration and may not be operated any longer!

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.



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Component		Interval	Activity	See page
		5000 Operating hours		
1	Acrylic panel, base	X	Replace	39
2	Acrylic panel, canopy	X	Replace	37



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

 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 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.



4.7 Disassembly for maintenance and cleaning work

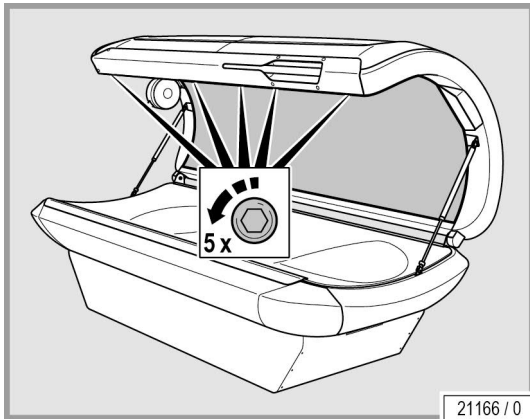
4.7.1 Removing the canopy panel



NOTE:

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

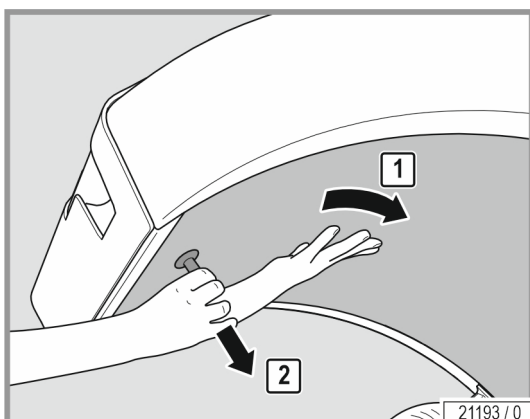
- Release and unscrew the five screws.

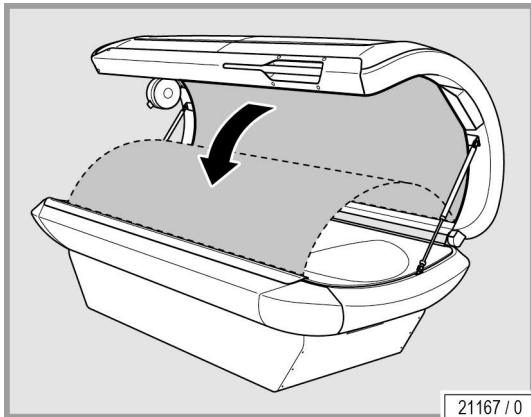


NOTE:

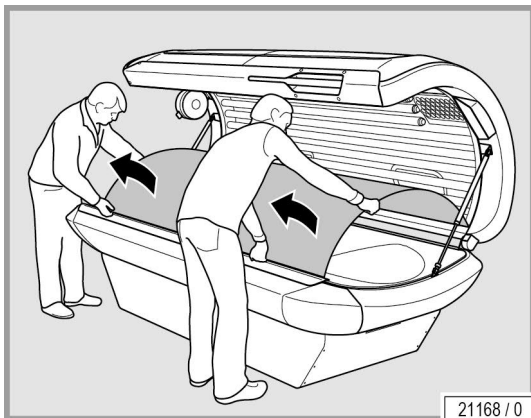
Remove the outside screws first and then remove the screws in the middle.

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

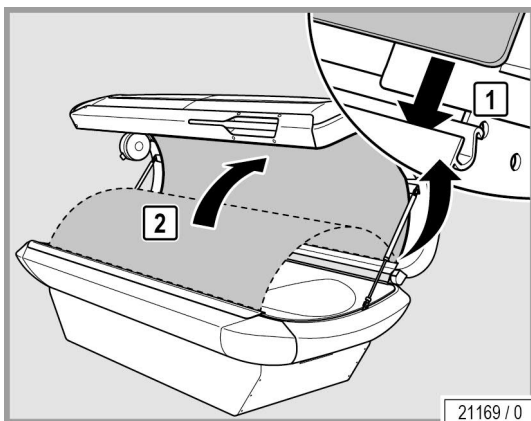




- Carefully lay the panel aside on the scratch guard.



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



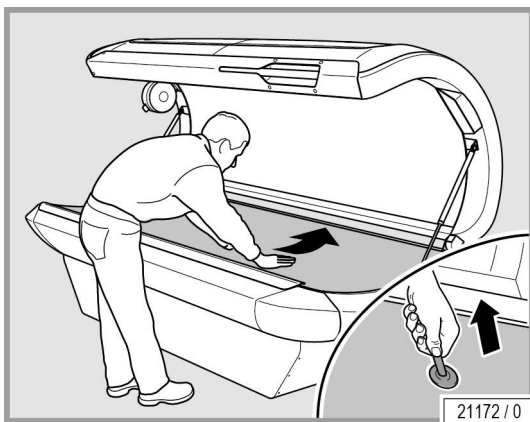
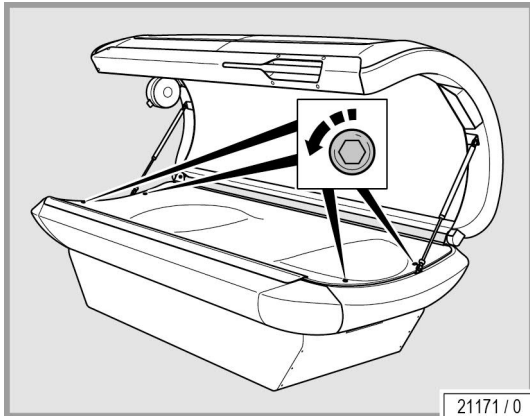
The assembly is the same process in reverse order.
When assembling please note:

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

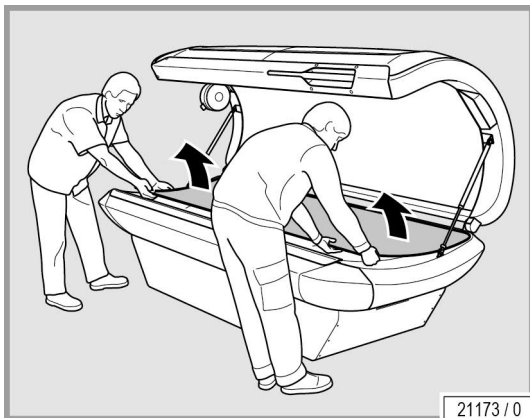
4.7.2

Removing the acrylic glass panel

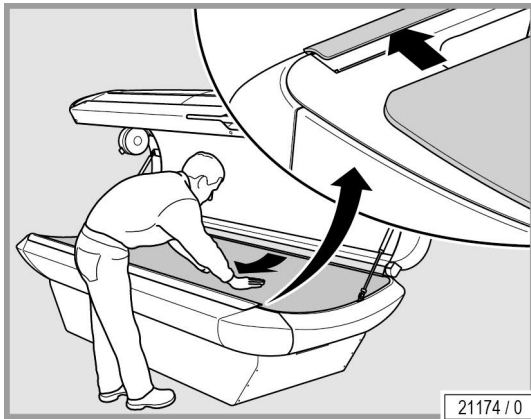
- Remove the screws and remove the washers.



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



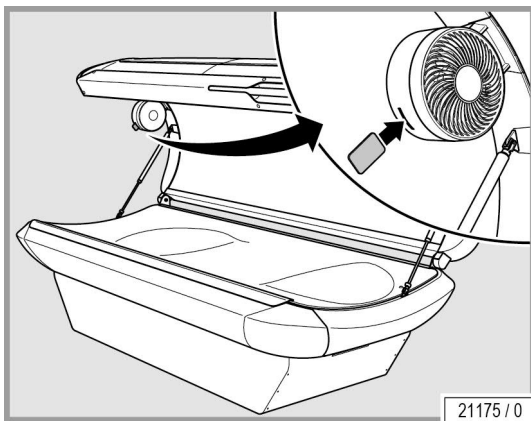
- With a second person to help you, remove the base panel and carefully place to one side.



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

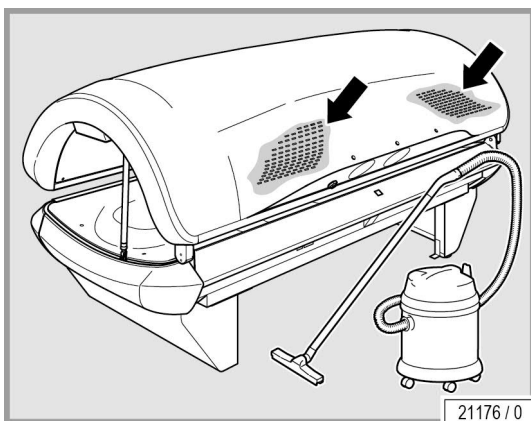
- Carefully lay the panel in the guide.
- Remove fingerprints and other soiling carefully.

4.8 Changing the AROMA card



- Insert the AROMA card into the side opening on the fan.

4.9 Cleaning the ventilation slot

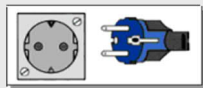
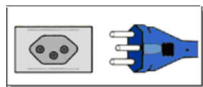


- Use a vacuum cleaner to clean the ventilation slot.

5 Technical data

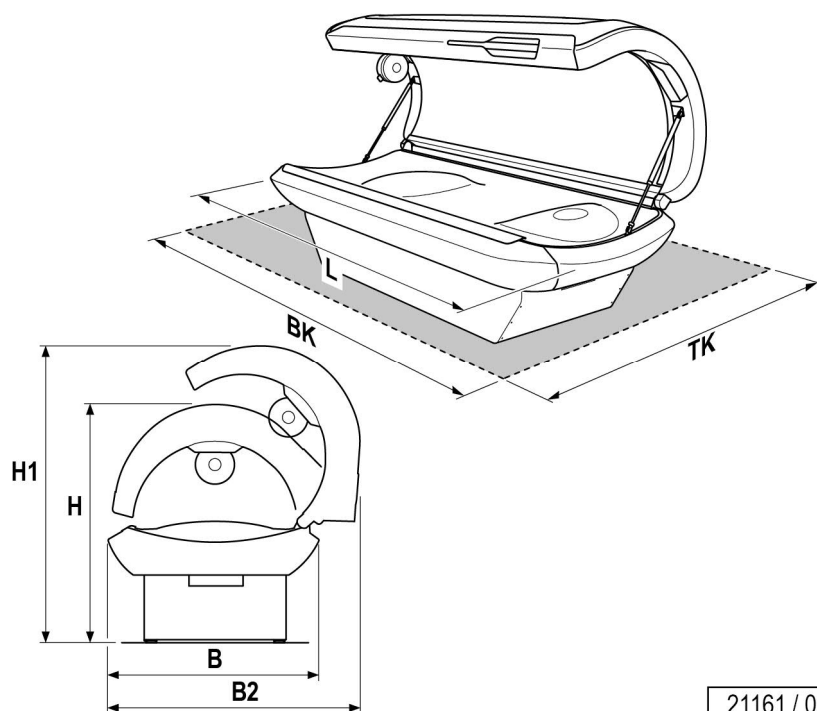


5.1 Power, connection rating and noise level

RedWave Plus		
Power consumption rating:	1400 W	
Rated frequency:	50 Hz	
Rated voltage:	230 V ~1	
Rated fuses:	1 x B16A	
Connection type for DE/NL/AT:	Earthed plug (Type F) ¹	
Connection type for CH:	Hexagonal plug with 3 round contacts arranged in a triangular pattern (type J)	
Connection type For UK:	2 flat contacts and 1 rectangular contact (type G) with 13 A micro-fuse	
Noise level 1m away from device:	62.9 dB(A)	
Noise level inside the device:	<70 dB(A)	
Load on the acrylic glass panel:	max. 150 kg	
Weight:	190 kg	

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

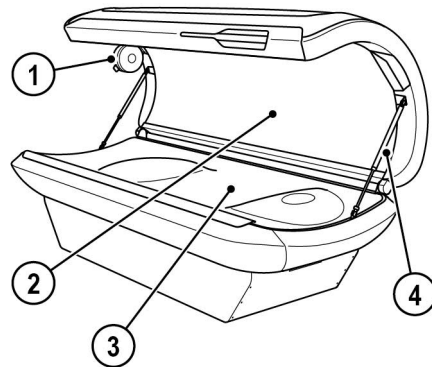
5.2 Dimensions



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B =	925 mm
H =	971 mm
H1 =	1236 mm
B2 =	1118 mm
L =	2160 mm
BK =	2400 mm
TK =	1500 mm

5.3 Spare parts, wear parts and accessories



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Number Description			Order-no.
1	1	Aroma card	1514150-..
2	1	Canopy panel	1518576-..
3	1	Base panel	1514682-..
4	1	Gas strut	1513924-..
	1	Mains power cable with Type F Schuko plug	1503304-..
	1	Mains power cable with Type J Schuko plug (for CH only)	1516709-..
	1	Mains power cable with Type G plug (for UK only)	1516713-..
	1	SW4 Allen key with T-handle	84500-..
	1	Protective goggles	1027147-..

6 Appendix



6.1 JK timer controls

The following time control system can be utilised with the RedWave Plus series units:

HK MICROTIMER 8250 order no.: 500001653



NOTE:

Please contact Customer Service (see page 3) if you have any questions about JK time control functions.

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