



Operating instructions

Translation of the original operating instructions

RedWave Plus

1034426-00 / en / 10.2025

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.

Copyright

The copyright remains with JK-Holding GmbH.

The contents may not be partially or completely duplicated, distributed or utilized for competitive purposes without authorization or disclosed to other parties.

The right to make technical changes in regard to the figures and information contained in these operating instructions is reserved!

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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

Person who provides the devices described here to users on a commercial basis. The operator is responsible for the correct operation of the device as well as compliance with the maintenance intervals.

User

A person who uses the device at a commercial location.

Personnel

People who are responsible for the operation, cleaning and general maintenance work and who instruct the users in the operation of the devices.

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 28.

This device is intended only for commercial use and not for private use.

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 device, see page 8.

The device may not be used by people with reduced physical, sensory or mental capabilities or who have insufficient experience and/or knowledge without supervision. A person responsible for their safety must ensure, either by supervision or instruction, that the device is used correctly and safely. If there is any doubt, use of the device by such categories of persons is to be forbidden!

This device is only to be operated with the specified lamps or their equivalent. The usage times given in these operating instructions 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 this. The operator bears the sole risk for this.

Proper use also includes compliance with the manufacturer's instructions and its operating and maintenance conditions. The device may only be operated, maintained and repaired by people familiar with these tasks and who have been informed of the dangers involved.

Vibra Shape Function

The vibration plate can be used additionally during the light application. The vibration plate is used for muscle stimulation of healthy people. If required, the vibration plate can also be operated independently of the lamps, but not when in standby.

The vibration plate is not intended for medical applications!

The vibration plate should not be used by pregnant women or by people with diseases and limited medical conditions. A list of the contraindications can be viewed on page 9.



1.3 Foreseeable misuse

The following uses of the unit are explicitly prohibited:

- The device may not be used by more than one person at the same time.
- People with a body weight of more than 150 kg may not use the device.
- 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.
- UV lamps must not be used in this device!

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

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 Vibra Shape (Vibration plate)

Contra-indications



DANGER!



Risks of damage to health!

Vibrations can cause or aggravate health problems.

The following people are not allowed to use the equipment:

- Pregnant women
- People with DVT (Deep Vein Thrombosis)
- People with fresh wounds following an operation or surgery
- People with epilepsy
- People with acute illnesses / inflammations
- People with pacemakers
- People suffering from retinal detachment
- People with acute osteoporosis



People with the following illnesses may only use the device after consultation with their doctor:

- Cardiovascular diseases
- Hip and knee implants
- Severe diabetes
- Severe migraine attacks
- Tumour diseases
- Gallstones or kidney stones
- Acute thrombosis
- Acute inflammation of the muscular-skeletal system
- New fractures to well-trained limbs
- New infections
- Acute hernia / intervertebral disc diseases / spondylolysis
- Rheumatoid arthritis
- Arthritic or arthropathic conditions (joint diseases)

People with recently implanted intrauterine devices (contraceptive coils), metal pins, screws or plates are also only to use the device after consultation with their doctor.

Side effects

The use of the vibration plate may lead to the following side effects:

- Itching in regions of the body being trained
 - Nausea and vertigo
 - Rapid and brief drop in blood pressure
 - Rapid hyperglycaemia in the event of diabetes
- Diabetics should always have dextrose on hand! The side effects of nausea, vertigo, drop in blood pressure and skin irritations are generally harmless. Older users should be especially warned about the possibility of vertigo and a sudden drop in blood pressure. People who have skin injuries such as blisters or wounds on the soles of their feet are not allowed to use the vibration plate.

1.4.4 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 24.



1.5.4 Transport, assembly and setup

The device is delivered by a specialist company and assembled and set up by the manufacturer's own service personnel or by an authorized service company.

As an operator you are responsible for complying with the on-site ventilation and electrical requirements at the setup location, see page 12.

Assembly

DANGER!



Personal danger due to electric shock or burns!

- The assembly and electrical connection must comply with the national regulations.
- The on-site electrical installation must be fitted with an easily accessible all-pole isolating device (master switch), complying with overvoltage category III. This means that each pole must have a contact opening width complying with the conditions of overvoltage category III for full isolation.
- If the connection is established via a plug-in connection then the connection system according to EN 60309 must be utilized.
- Assembly, installation, upgrading or repair of the device may only be carried out by specially trained and authorized personnel.

Information regarding the disassembly and assembly of the device is available in the separate assembly instructions. These assembly instructions are intended solely for use by the manufacturer's service personnel or by qualified specialists authorized by the manufacturer.

Ventilation

WARNING!



Risk of overheating due to air flow problems!

Operating faults possible.

- Do not change, obstruct or block the air inflow and outflow area to the unit or make any unauthorized changes to the unit. The manufacturer shall bear no liability for damage or injuries resulting from such actions.
- Observe the ventilation system data.
- Do not set up and operate the device on the transport pallet!

You can obtain data regarding the air supply and ventilation from the customer service department (see page 2).

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!

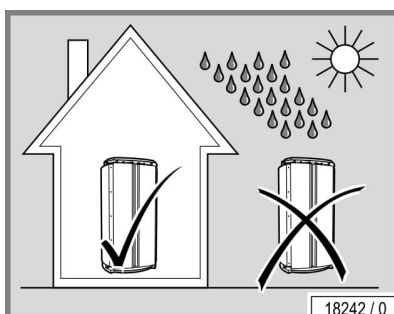
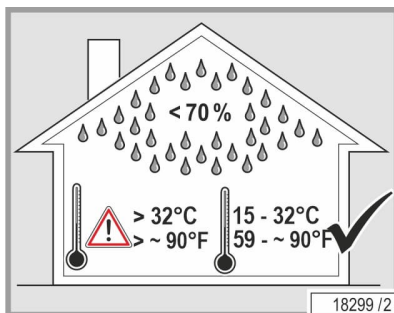
Where there are great differences in temperature between the transport route and the installation site the unit may not be put into operation immediately after being set up.

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

Risk of overheating due to air flow problems!

Operating faults possible.

- Do not change, obstruct or block the air inflow and outflow area to the unit or make any unauthorized changes to the unit. The manufacturer shall bear no liability for damage or injuries resulting from such actions.
- Observe the ventilation system data.
- Do not set up and operate the device on the transport pallet!



Environmental conditions

Possible damage to the unit!

The unit is not to be used outdoors.

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

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

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

The device is not suitable for operation in mobile facilities (ships, buses, trains). Adaptation of the unit is required in order to guarantee trouble-free operation when used in mobile facilities.

Please contact the Customer service department without fail before putting the unit into operation - see page 2.



1.5.5 Commissioning



DANGER!



Damaged mains power cable!

Danger to persons through electric shock or burns.

- Only the manufacturer or specialist companies are permitted to replace the mains power cable.

Initial commissioning will be undertaken by the manufacturer's own service personnel or by an authorized service company. The device will be handed over ready for use.

If the device has not been used for a longer period of time, then it must first be inspected by our customer service department or by another authorized company before being put back into operation again.

The device is operated with an external time-control unit.

A time control unit must be attached so that the device automatically switches off at the latest after <110 % of the selected running time even if the controller fails. The device running time must be secured with a timer control that complies with the standard EN 60335-2-27).

Dependent on the local power supply company, the devices can transmit interference to the power system of the building that impair the audio-frequency remote control system used by the power supply company. This can, for example, interfere with the function of night-storage heaters.

If faults occur due to the operation of the devices, then the operator is responsible for the installation of an audio frequency blocking device in the building electrical installation. Please contact your electrician. The electrician is familiar with the technical connection conditions of your local utility company so that the audio-frequency blocking device can be matched to the power system of your power supply company.

The unit can be operated temporarily or continuously with a stand-alone or non-mains-synchronous power supply (e.g. microgrid or back-up system). However, you must contact the customer service department before putting the unit into operation in this way – see page 2.



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 device is in a fault-free operating condition.

Please observe the information and recommendations provided in these operating instructions. Please 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.

Unauthorized modifications and changes to the device and its control unit are prohibited. Failure to comply with this invalidates the operating licence!

To avoid hazards, the device must not be used if the mains power cable is damaged. A damaged mains power cable must be replaced by the manufacturer or their customer services, or by trained and qualified specialist personnel.

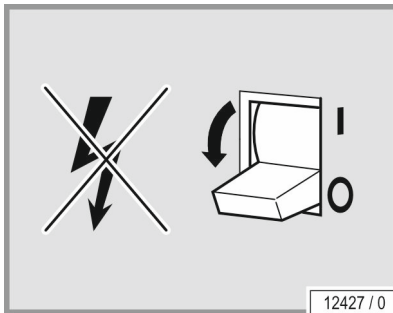


NOTE:

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 device must be disconnected from the power supply in order to temporarily or permanently decommission it.

You must abide by the legal disposal requirements when permanently decommissioning the device.

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 containing mercury. Batteries contain heavy metal compounds.

Within the European Union the national implementation of the Waste Framework Directive 2018/851/EG 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 and batteries.

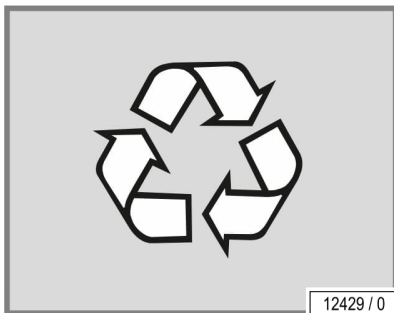
Your local sales agency will be happy to assist you with the disposal of lamps and batteries:

- Inform your local agency of the number of lamps and batteries 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. Outside Germany, the respective national legislation applies. 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.



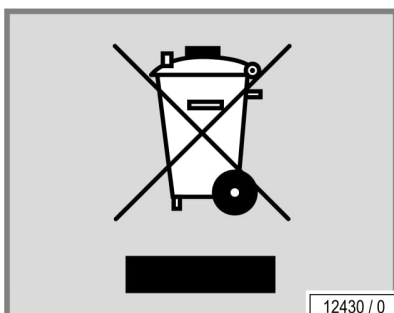
Disposal of old units

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 Directives

See the included EC Declaration of Conformity.



1.5.11 Export

We emphasize that these units are only intended for the European market and must not be exported to or operated in other countries e.g. the USA or Canada! The manufacturer does not accept any liability in the event of non-observance! We explicitly emphasize that non-compliance may result in high liability risks for the exporter and/or the operator.

1.5.12 AUX (music, optional)

If a smartphone is used privately during the application, this does not constitute a public performance within the meaning of the Copyright Act, so that the studio operator is not obliged to report or pay fees to the awarding body for commercial performance rights.

For the public use of music files, the same regulations apply as for other sources of music: As the owner/operator of the studio, you are only permitted to play original audio files on your premises and/or in the "MP3 music module" included in JK International GmbH units if you have acquired the performance rights required for this purpose. You can obtain these rights from the organisation responsible for granting commercial performance rights in your country (in Germany: GEMA/GVL).

Copyright-protected audio files and the tracks included on these sound storage media may not be converted into MP3 format and/or stored on HDDs, audio CDs, MCs, audio DVDs, etc., if the conversion/storage process uses software that invalidates or bypasses the copyright protection included on the sound or data storage media.

You must be ready at any time to prove your granting of stage rights by presentation of the appropriate stage rights certificate when requested by a representative or another controlling body of the responsible organisation.

Provided that you have complied with all the information above and acquired the rights required for using the "MP3 music module", you can also convert your original audio files into the MP3 format required for the playback device. However, only one copy (duplicate or copy converted into MP3 format) may be produced of each legally acquired audio file. The source media (original sound storage media) must be kept and may not be used simultaneously.



NOTE:

Recorded SD cards that are supplied with a JK audio system as accessories are also subject to payment for commercial use if they contain PRS for Music-liable content.



1.5.13 Technical modifications

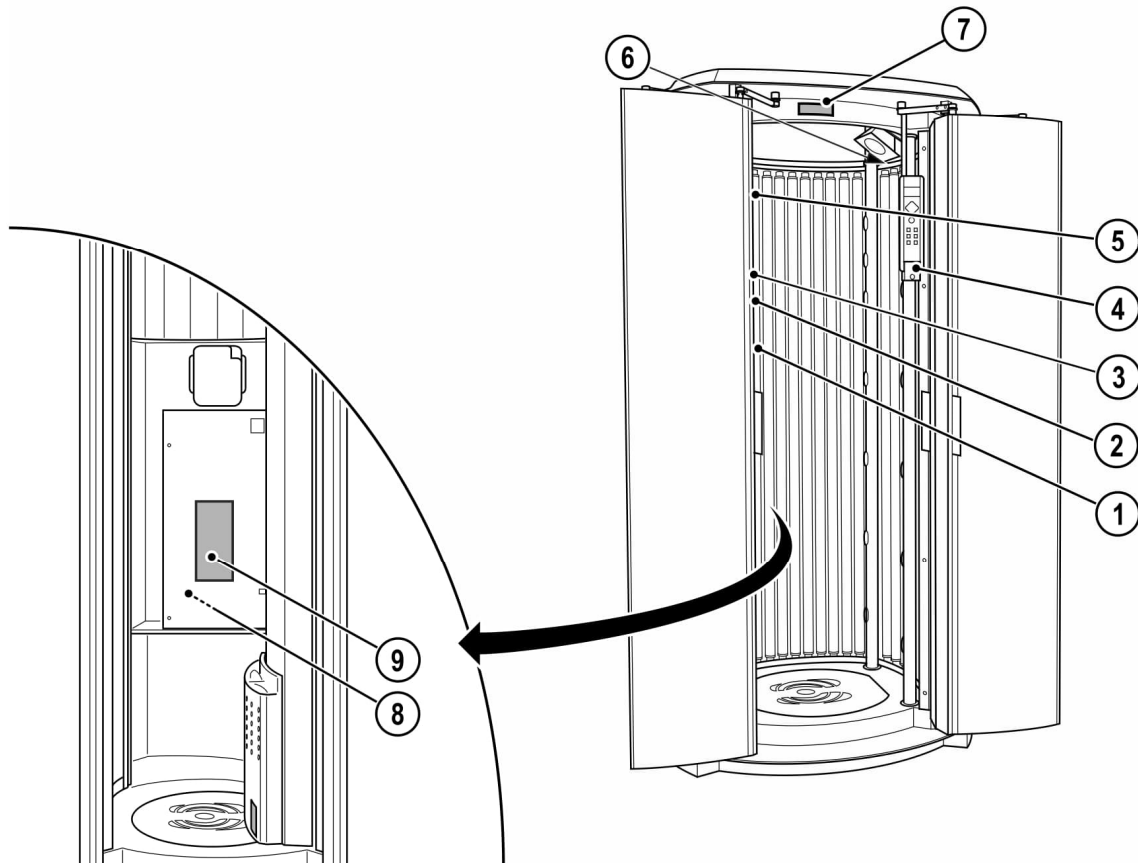
The device has been constructed in accordance with the current state of the art and the applicable safety regulations. The illustrations and specifications in these operation instructions are subject to technical modifications which are required in order to improve the device.

Unauthorized modifications and changes to the device and its control unit are prohibited. Failure to comply with this invalidates the EC conformity!

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

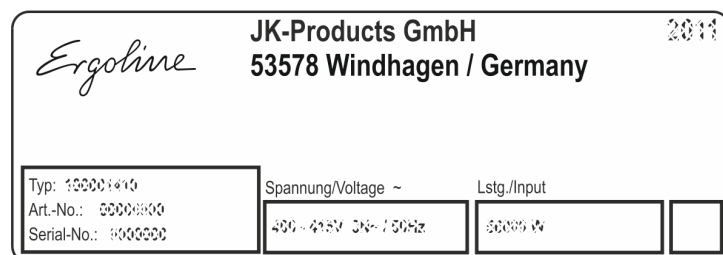
1.6 Signs and stickers on the unit

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.



18515 / 0

1: Type plate

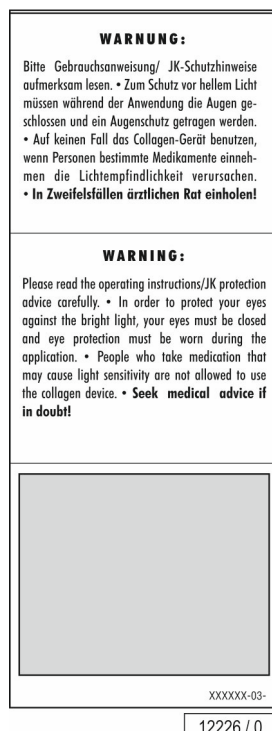


11991 / 2

The nameplate is located on the upper left of the lamp cover. It contains important information for identifying the device (e. g. the serial number = Serial-No.).



2: Warning sticker (1019018-..)

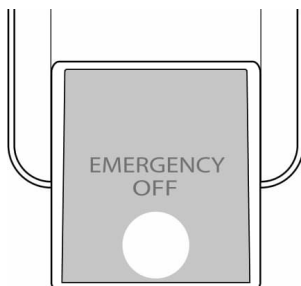


12226 / 0

The sticker is located on the lamp covering on the right side section.

This sticker also includes the language form 1019017-.. (see accessories Technical Documentation).

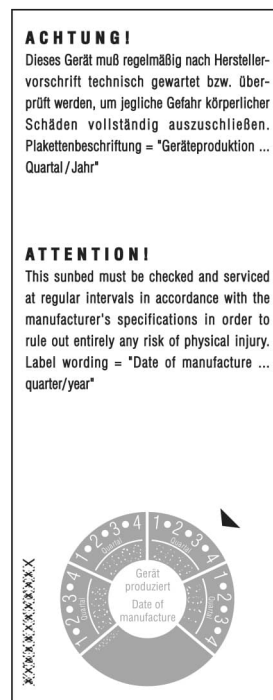
3: Sticker EMERGENCY OFF (1018687-..)



18465 / 1

This sticker also includes the language form 1018688-.. (see Technical Documentation folder).

4: Maintenance instruction sticker (800701-..)



12225 / 1

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



11977 / 2

6: Lamp set sticker (example)

	Ergoline SUNRISE 488 DYNAMIC POWER			
	①	16x	Ergoline TREND 80-200 W E14	1005900-
	②	16x	Ergoline TREND 80-200 W E14	1005900-
	③	16x	Ergoline TREND 80-200 W E14	1005900-
EN EN 60335-2-27, max. Out 0,3 W/m²				
JK-Products GmbH / GERMANY				1003086-01
13738 / 0				

The sticker is located on the lamp covering on the left side section.

HINWEIS!

In diesem Gerät dürfen nur Originalteile von JK-Products GmbH bzw. von JK-Products GmbH freigegebene Teile verwendet werden. Ersatzteile, die die oben genannten Voraussetzungen nicht erfüllen, jedoch den Anspruch erheben, mit obigen Teilen identisch zu sein (Ident-Teile) dürfen grundsätzlich nicht eingebaut werden. Über Ausnahmen im Einzelfall entscheidet die JK-Products GmbH.

WARNHINWEIS!

Der Einbau von nicht frei gegebener Fremdelektronik oder ungenehmigte Änderungen jedweder Art an Konstruktion, Verdrahtung o. ä. führen zum Erlöschen der Gewährleistungsansprüche. Zuweiterhandlungen können Brandgefahren auslösen, durch die Personen infolge Rauchvergiftung und/oder Feuer getötet oder schwer verletzt werden können. Des Weiteren erlischt die für das Gerät ausgestellte EU-Konformitätserklärung (CE-Zertifikat). Es besteht ferner die Gefahr, dass Sie die Ansprüche aus der gesetzlichen Produkthaftung verlieren.

NOTE!

Only genuine parts or parts approved by JK-Products GmbH or JK-Products GmbH may be used in this device. Replacement parts that do not meet the above requirements, but which, however, claim to be identical with the above mentioned parts (pattern parts), must not be fitted under any circumstances. JK-Products GmbH will judge exceptions to this in a case by case basis.

WARNING!

The installation of unapproved electronics made by other manufactures or unapproved changes of any kind to the design, wiring etc. shall result in and all warranty Claims being forfeited. Non-conformance may result in a risk of fire, through which, persons may be killed or badly injured as a result of smoke inhalation or fire. Moreover, the EU conformity declaration (CE certification) for the unit will be invalidated. There is also a danger of losing the right to any claims based on legal product liability.

Sicherheitskategorie:
Zum offenerhaltenen Gerätebehälter muß der Steuerbedeckel
immer ordnungsgemäß verschlossen sein!
Wichtiger Hinweis:
The control box cover must always be properly closed on for
live-line device operation!

GEFAHR
Bei geöffnetem Gerät nicht spannungsfrei!
DANGER
Voltage is not switched off, when cabinet
is opened.

ACHTUNG!
ESD-sensiblen Bauteile,
Vorhandenhandlungen beachten!
Berühren der Leiterplatten nur durch
speziell geschultes Personal!
CAUTION!
Components sensitive to ESD. Observe precautionary measures!
The PCBs may only be worked on by specially trained personnel!

151015-01

18473 / 0

The sticker is located on the cover of the control box.

1.7 Preclusion of damage



On behalf of customers who have purchased a RedWave Plus device for private or commercial utilisation from one of the JK-International GmbH sales partners, JK-International GmbH accepts liability for any defects on the device that arise in accordance with the following regulations; wearing parts such as high pressure lamps (bulbs), low pressure lamps (tubes) and starters and consumables (e.g.: Aqua-System, Aroma-System) as well as the acrylic glass panels are not covered by the warranty.

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

Warranty and liability claims for personal injury and property damage are excluded if they are the result of one or more of the following causes:

- improper use of the device;
- improper assembly, commissioning, operation and maintenance of the device;
- operating the device with faulty safety equipment or improperly attached or non-functional safety and protective equipment incl. warning signs;
- not complying with the information in the operating instructions regarding transport, storage, assembly, commissioning, operation and maintenance;
- the use of untrained personnel or unqualified technicians;
- unauthorized changes to the device or the control 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.

2 Description



2.1 Scope of delivery

- RedWave device
- RED LIGHT TECHNOLOGY lamps
- Protective goggles
- Allen-key
- Sound system
- AUX cable
- Connecting lead
- Technical documentation (operating instructions, error code brochures and Professional Setup Manager and other documents)

2.1.1 Options

- Bluetooth®
- Vibra Shape
- 3D sound
- AROMA SYSTEM

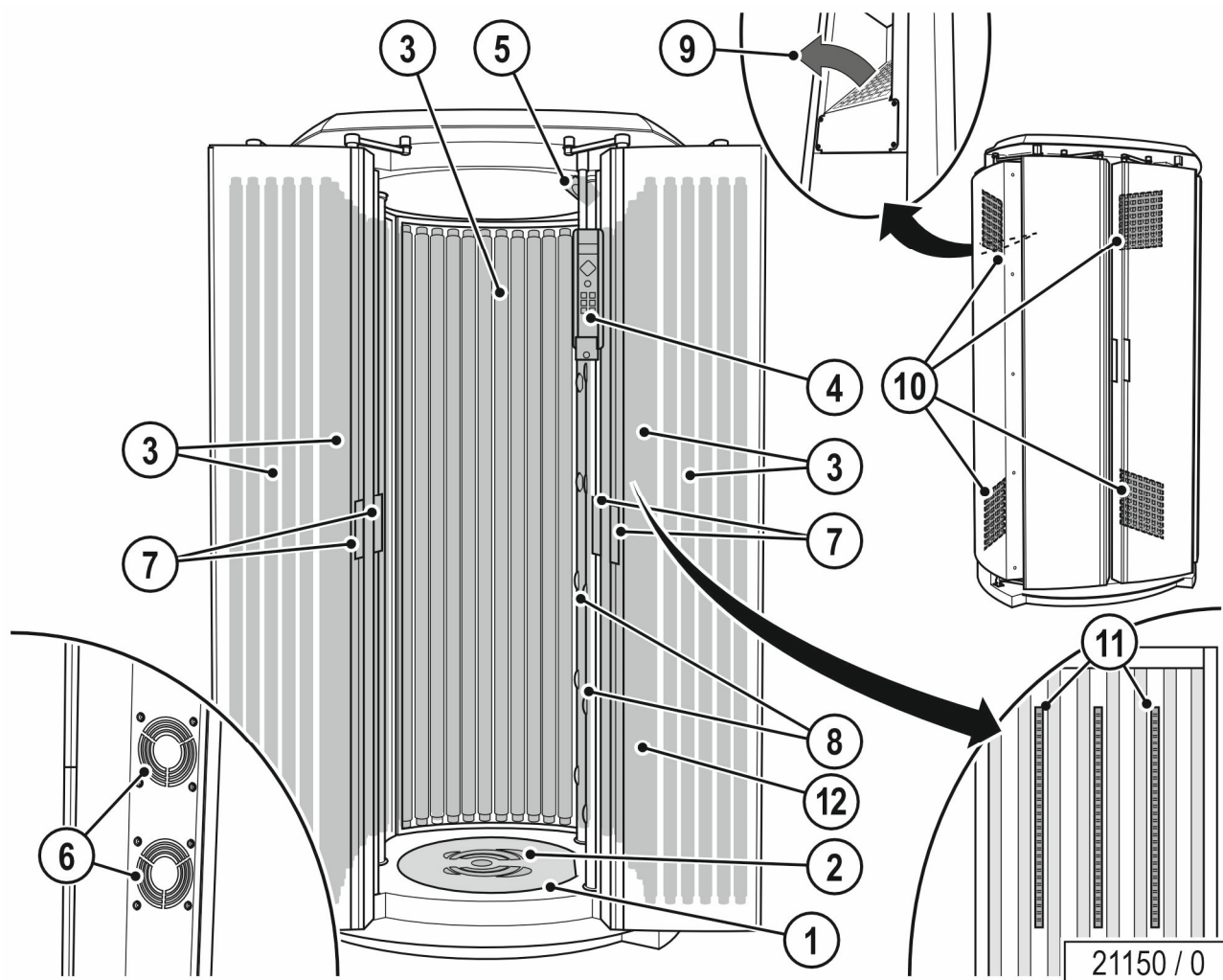
2.2 Equipment

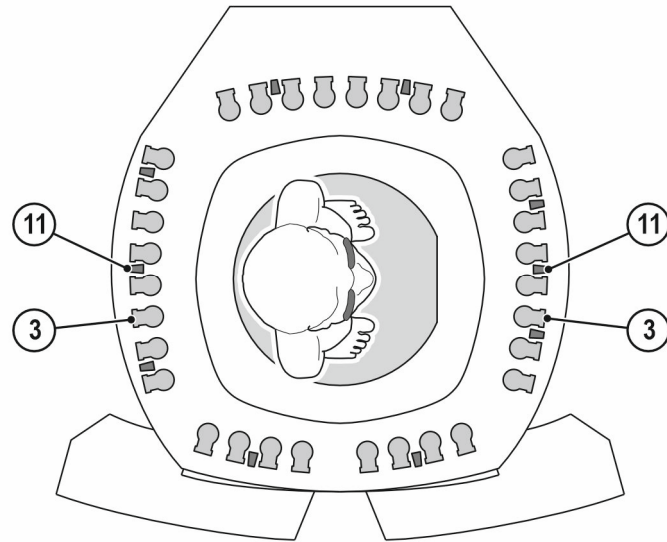
Device equipment varies depending on the model.

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: Only those buttons are illuminated from behind that can be operated, i.e. the corresponding function must be included in the device's equipment.

2.3 Unit description

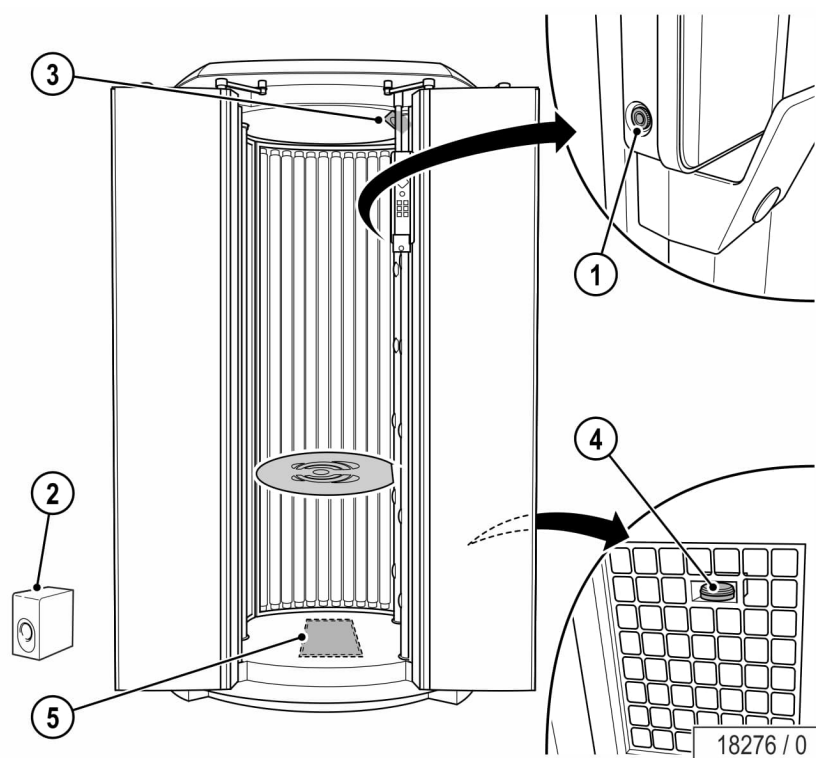




21060 / 0

1. Entry area
2. Foot mat (silicone) and vibration plate (additional feature)
3. Low-pressure lamps
4. Operating panel
5. Loudspeakers
6. Fans (door cooling)
7. Door handles (outside / inside)
8. Body cooling air nozzles
9. Not applicable for this device.
10. Supply air filter
11. Red Light & Near Infrared LED's
12. AROMA SYSTEM (optional)

2.4 Accessories (optional)



1. AUX port
2. Subwoofer
3. Loudspeakers
4. AROMA SYSTEM
5. Vibration plate



2.5 Functional description

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



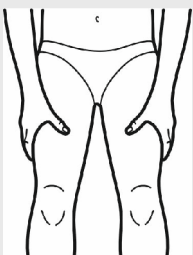

Vibra Shape

The body immediately responds to the patented, pre-programmed movement of the vibration platform. Muscles automatically flex and relax as the Vibra Shape technology stimulates muscle activity and locally increases the circulation temporarily.

Your skin feels smoother and softer, the muscles appear firm and toned.

2.6 Description: Vibration programmes



Program ¹⁾	Process	Frequency
	Loosening and relaxation of the muscles (RECOVER)	Low vibration frequency
	Fitness program for beginners	Medium vibration frequency
	Fitness program for advanced users (RECHARGE)	High vibration frequency
	Refining the skin's appearance and preventing cellulite	Changing vibration frequency

¹⁾ Each program begins with a warm-up phase and ends with a cool-down phase.

3 Operation



3.1 User safety information



DANGER!



Danger of hearing damage!

Using earphones or headphones at high volume can result in permanent hearing damage.

- Do not set the volume too high.

3.2 RedWave Plus System

Please observe the safety instructions and warnings in chapter 1.

Procedure to be followed before, during and after an application:

- During the application no other people may remain in the room, in particular no children.
- While using the unit no pets may be present in the room.
- Remove all jewellery (including piercings) prior to the application.
- Remove cosmetics before using the device.
- Due to the light intensity, we recommend keeping your eyes closed during the application. To make your experience even more pleasant, we also recommend wearing protective goggles.
- Always comply with the recommended application times.

3.3 Application tips

**DANGER!****Risk of crushing!**

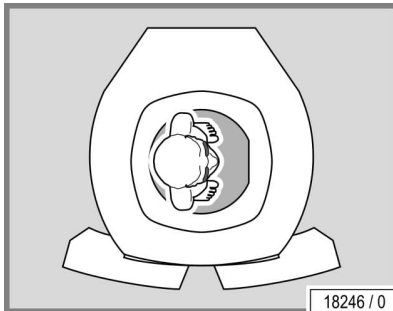
Parts of your body could get into the gaps between base plate and vibration plate.

- Never operate the device without foot mat.



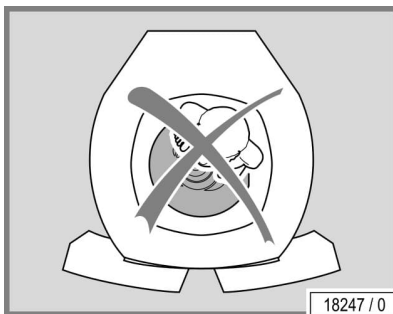
Behaviour before, during and after an application:

- When the unit is in use no other people may remain in the room.
- Remove all jewellery (including piercings) prior to the application.
- Remove cosmetics before using the device and do not use sun screen products.
- Always comply with the recommended application times.



RedWave Plus device

- Stand up straight and in the centre of the device during the application.





Vibra Shape

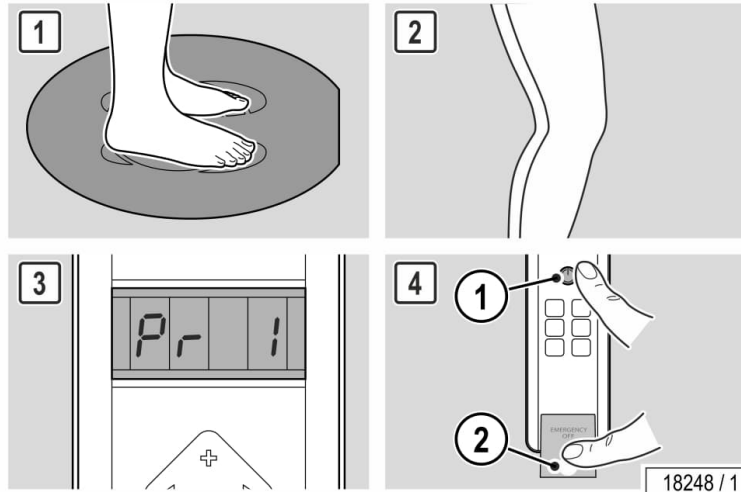
 **DANGER!**



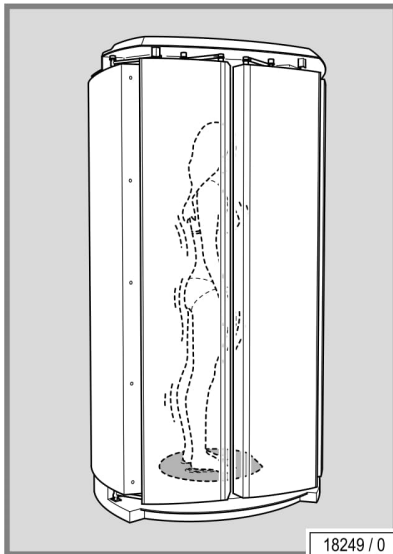
Risk of injury!

The vibration function is not suitable for all users.

- Please observe the contraindications on page 9.



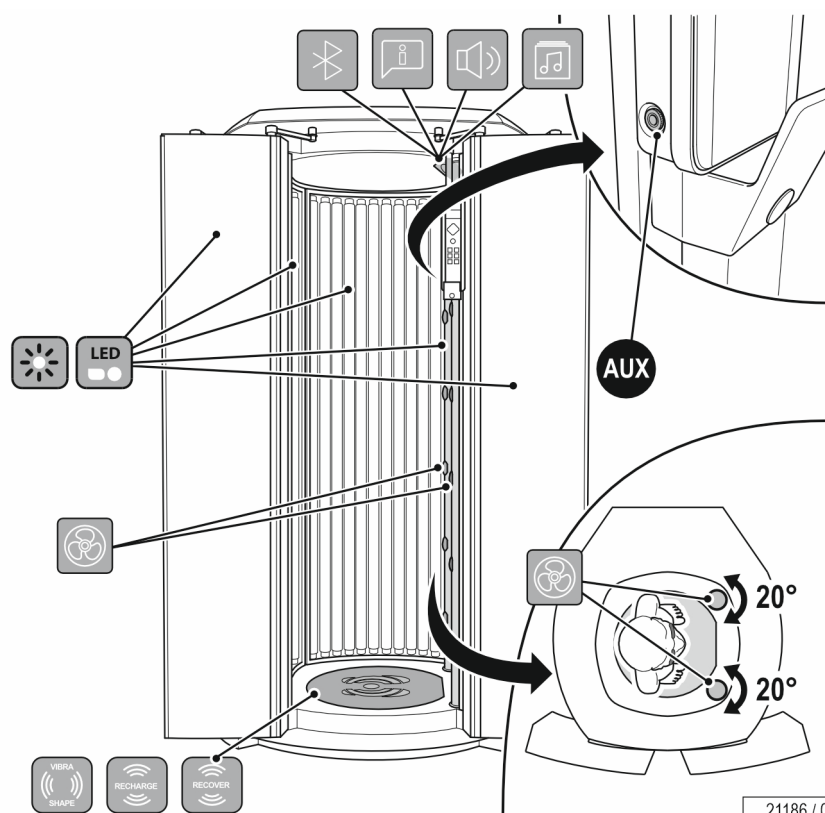
18248 / 1



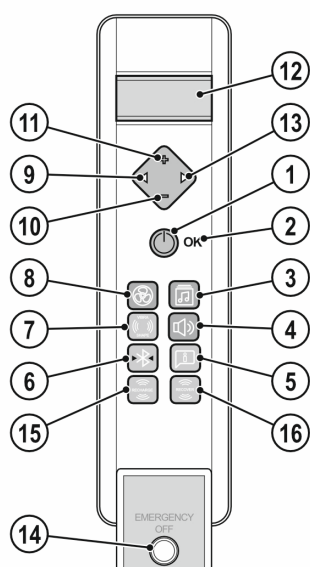
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- Place your feet on the footmarks (1).
- Do not completely lock your knees (2).
- Select Program 1 as the first application in order to test the compatibility (3).
- Press the START/STOP button (4/1) to stop the vibration plate if you think that it is causing discomfort or vertigo. Press the EMERGENCY OFF button (4/2) to stop the device. If the EMERGENCY OFF button is pressed, the device shuts down except for the operating panel. The EMERGENCY OFF can only be operated after a locking period of 2 seconds. Then the device starts again in the application mode.

3.4 Operating overview



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1. START/STOP button
2. OK button (not always visible)
3. Audio system pictogram
4. Volume pictogram
5. VOICE GUIDE pictogram
6. Bluetooth® pictogram (only before application)
7. Vibra Shape pictogram (optional)
8. Body cooling pictogram
9. Left navigation arrow button
10. Minus button
11. Plus button
12. Display – Functions ...
13. Right navigation arrow button
14. EMERGENCY OFF button
15. Vibra Shape 'RECHARGE' (optional) pictogram
16. Vibra Shape 'RECOVER' (optional) pictogram

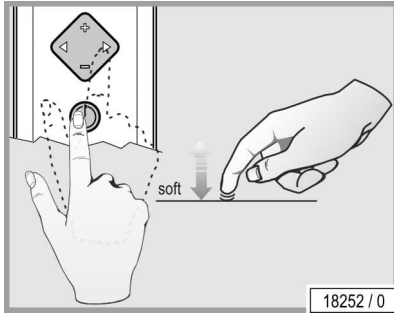


3.4.1 Navigation

Via the Control Center the most important settings can be made before starting the device. During the application session, functions may be activated or deactivated via the control panel inside the device.

Navigation unit - Control Center

The Control Center enables comfortable access to special functions.



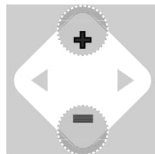
Acknowledge selection.

This button's availability is displayed on the operating panel, depending on the function that has been selected.



Acknowledge selection.

This button's availability is displayed on the operating panel, depending on the function that has been selected.



Select device function.


Pictograms of available functions are illuminated in default mode after starting up the RedWave Plus-device. After selecting a function, the corresponding indicator flashes for a short time. During this time settings may be changed.

Information about the setting options can be found in the separate user manual 'Professional Setup Manager' (order number: 1017127-..) in the technical documentation.




NOTE:

Only for the studio operator:

To open the Professional Setup Manager, press button  for approximately 3 seconds in standby mode.



NOTE:




















Pressing and holding  button for 3 seconds activates the demo mode. This allows you to demonstrate the following functions without the application.



NOTE:

If a button is not pressed within 8 seconds, the settings return to default mode.

3.5 Functions

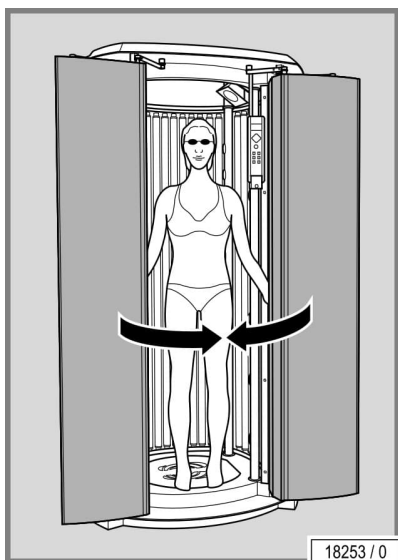
Pictogram selection / key sequence	Navigation	Description / Display	Information
		START/STOP Switches the RED LIGHT TECHNOLOGY lamps and LEDs on / off during the application. The process is interrupted.	The application time continues to run if the RED LIGHT TECHNOLOGY lamps and LEDs are switched off during the application.
 9  1		Adjust body fan, levels 1-9	
 14		Adjust volume: levels 0 - 14	
 0			
   		Audio system SD card selection: Press the plus button Studio channel selection: Press the plus button Select own music, AUX or Bluetooth®: Press the plus button Switch off the audio system: Press the minus button	The +/- buttons can be used to select titles for internal music in demo mode and during application. The +/- buttons can be used to select titles for internal music in Bluetooth® mode and during application.
 		Switch off VOICE GUIDE: Press the minus button Switch on VOICE GUIDE: Press the plus button	The VOICE GUIDE provides acoustic device operation assistance and is only available if an audio system is fitted. VOICE GUIDE is switched on by default during stand-by and the application.
 		Switch off Bluetooth®: Press the minus button Switch on Bluetooth®: Press the plus button	



Pictogram selection / key sequence	Navigation	Description / Display	Information
EMERGENCY OFF 		EMERGENCY OFF	<p>In standby, the EMERGENCY OFF button does not have any function.</p> <p>If the EMERGENCY OFF button is pressed, the device shuts down except for the control element. In this state, the display indicates that the EMERGENCY OFF button has been pressed.</p> <p>The application time is ended.</p> <p>The Voice Guide verbally navigates the user through the EMERGENCY OFF function.</p> <p>The EMERGENCY OFF can only be cancelled after a locking period of 2 seconds. Then the device starts again.</p>

	0		Vibra Shape
	1		RECHARGE: Press the plus button
	2		Program 2: Press the plus button
	3		RECOVER: Press the plus button
	4		Program 4: Press the plus button

3.6 Start



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

Upon starting the following functions are switched on:

- RED LIGHT TECHNOLOGY lamps and LEDs
- Body cooling
- Audio system (optional)
- Voice Guide (optional)





3.7 Coupling with Bluetooth® devices



DANGER!



Danger of hearing damage!

Using earphones or headphones at high volume can result in permanent hearing damage.

- Do not set the volume too high.

The user can connect their own private smartphone with Bluetooth® to the device.

Coupling between the unit and the private smartphone of the user is possible via Bluetooth®¹ Connect or with the stereo jack plug. When using Bluetooth Connect, the user can transfer their favourite music into the solarium wireless (e.g.) from their smartphone. The operation is carried out during the application session conveniently via the Control Center.



NOTE:

- Ergoline cannot guarantee full compatibility with all Bluetooth® devices.
- Before coupling a device with this system, read the user manual to find out more about the Bluetooth® compatibility.
- Make sure that the Bluetooth® function is activated on your device and that the device is visible for all other Bluetooth® devices.

Pairing with a Bluetooth® player

Activate the Bluetooth® function and search for Bluetooth® devices.

Activate the Bluetooth® function on the iPhone®:

iPhone®:

Settings → General → Bluetooth® → ON (search for units is started.)

Activate the Bluetooth® function on the Android® smartphone:

Android® smartphone:

Press the Bluetooth® symbol → SCAN (search for units is started.)

¹ Communication system: IEEE 802.15 WPAN Bluetooth® class II version 3.0 compatible with Bluetooth version 2.1+EDR, 1.2, and 1.1; max. operating range: approx. 10 m; frequency range: 2,4 GHz range (2,4000 GHz – 2,48 GHz); compatible Bluetooth® profiles: A2DP, AVRCP; equipment supported at the same time (Pairing): one device

**NOTE:**

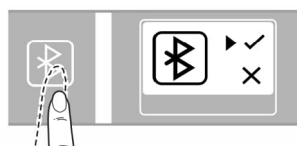
The device can store a maximum of ten coupled Bluetooth® devices. In the event of recoupling the device must first be deleted from the Bluetooth® device. The activation process must then be repeated.



Activate Bluetooth® Connect on the Control Center



- Press the Bluetooth® symbol on the Control Center.



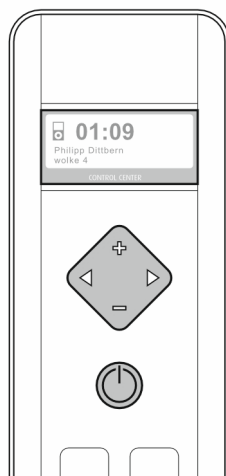
- Activate Bluetooth® Connect on your audio device.
- Select e.g. RedWave Plus 01.



Successful coupling on the Control Center.

**NOTE:**

Start with the audio player music on the Bluetooth® player.



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Display in the control panel in a successful coupling.

**NOTE:**

When successfully coupled, the Bluetooth® symbol lights up continuously blue.

**NOTE:**

The Bluetooth® function only works inside the device. Outside of the device reception interference may occur.



3.8 Own music

DANGER!



Danger of hearing damage!

Listening to music at a high volume can result in permanent hearing damage.

- Do not set the volume too high.

WARNING!



Heat damage to smartphones possible.

- Do not place the unit directly in the radiation area.

The cable might tear, the connectors might be damaged.

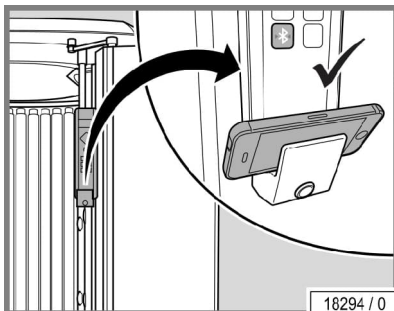
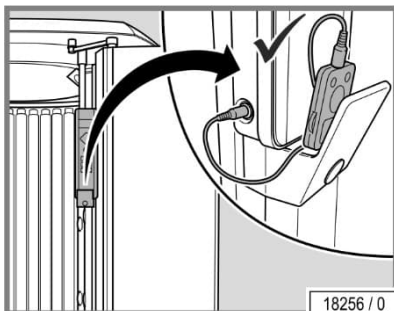
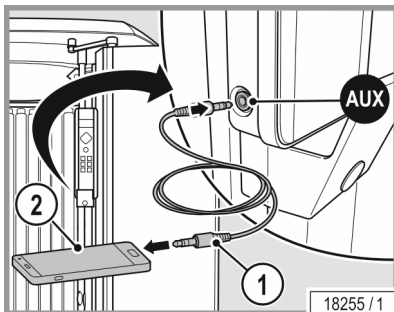
- When unplugging the smartphone, do not pull the cable.

The user can connect their own private smartphone with Bluetooth® to the device.

1. Mat.-No. 1001855-.. provided for use by the studio operator (1.5 m / 2 x 3.5 mm stereo jack plug).
2. For connecting to the smartphone, refer to the manufacturer's documentation.

Connecting:

- Insert the AUX cable (stereo jack plug) in the audio system.
- Insert the AUX cable into the smartphone.
- Select the music title and then start.
- Where necessary, set the volume level on smartphone so that the audio signal from the smartphone is recognized by the audio system.



4 Cleaning and maintenance



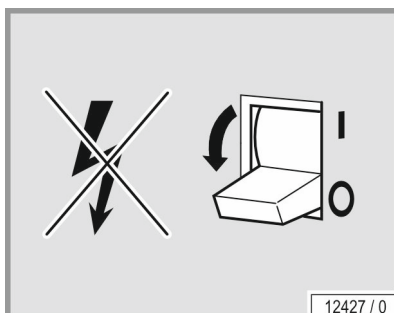
4.1 Safety instructions when undertaking cleaning or maintenance work

DANGER!



Electricity throughout entire device!
Personnel danger due to electric shock or electric burns.

- Before beginning work, disconnect all of the power connections from mains voltage.
- Secure all of the disconnected connections against accidental reactivation.
- Check that the device is disconnected from mains voltage.
- All of the work and electrical connections must comply with the national regulations of the country in which the device is being operated (e.g. the VDE regulations in Germany) and must be undertaken by appropriately trained specialists.



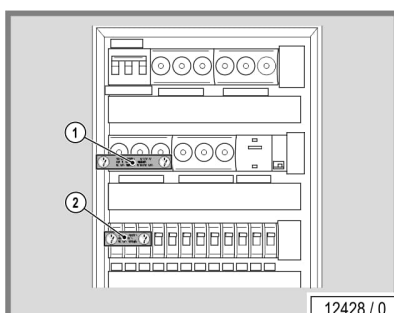
12427 / 0

If work is to be performed on the devices, they must be deenergized. That means that all live cables must be switched off.

Switching off the unit alone is insufficient, as certain points may remain energized. Therefore, switch off fuses before performing any work and – if possible – remove them.

Accidental reactivation can result in serious accidents. Immediately after deenergizing, secure all switches or fuses used for deenergizing against being switched on again.

- Lock the fuse box with a padlock.



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In case of circuit breakers which cannot be unscrewed, a strip of adhesive tape may be applied over the actuation lever with the wording 'Do not switch, danger!' (1 + 2).

A prohibition sign with the text:

'Work in progress!'

'Place:'

'Sign may only be removed by:'

must always be securely mounted immediately.



4.2 Faults

Error codes are output to the display to simplify troubleshooting:

- If a fault occurs, the error code flashes on the display.
- If several errors occur, the error messages are displayed alternately.
- Error elimination is acknowledged by pressing the START/STOP-button.
- If the error cannot be cleared, inform Customer Service - see page 2.

More detailed information regarding the error description and solutions is available in 'Error Codes' (order no. 1019969-..).

4.3 Cleaning



DANGER!



Infections can be spread by skin contact!

All objects/device parts, which can come into contact with the user during the application, must be disinfected after every application:

- Handles and control panel
- Protective goggles
- AUX cable
- Acrylic glass panels
- complete base plate including foot mat (silicone)



DANGER!



Risk of crushing during the cleaning/disinfecting of base plate and vibration plate!

Between the base plate and the vibration plate is a small gap, which can lead to crushing of the fingers.

- Do not put your fingers into the gap when cleaning.

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.



4.3.1 Cleaning the surfaces

Acrylic glass surfaces

**CAUTION!**

Do not rub dry – danger of scratching!

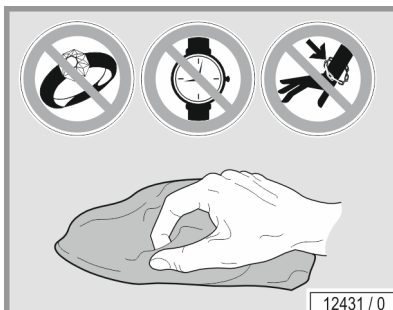
Failure to observe this will invalidate all guarantee claims.

- 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.



Plastic surfaces

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

During cleaning a slight discolouration of the leather cloth by the rubber seals must be expected for production-related reasons.

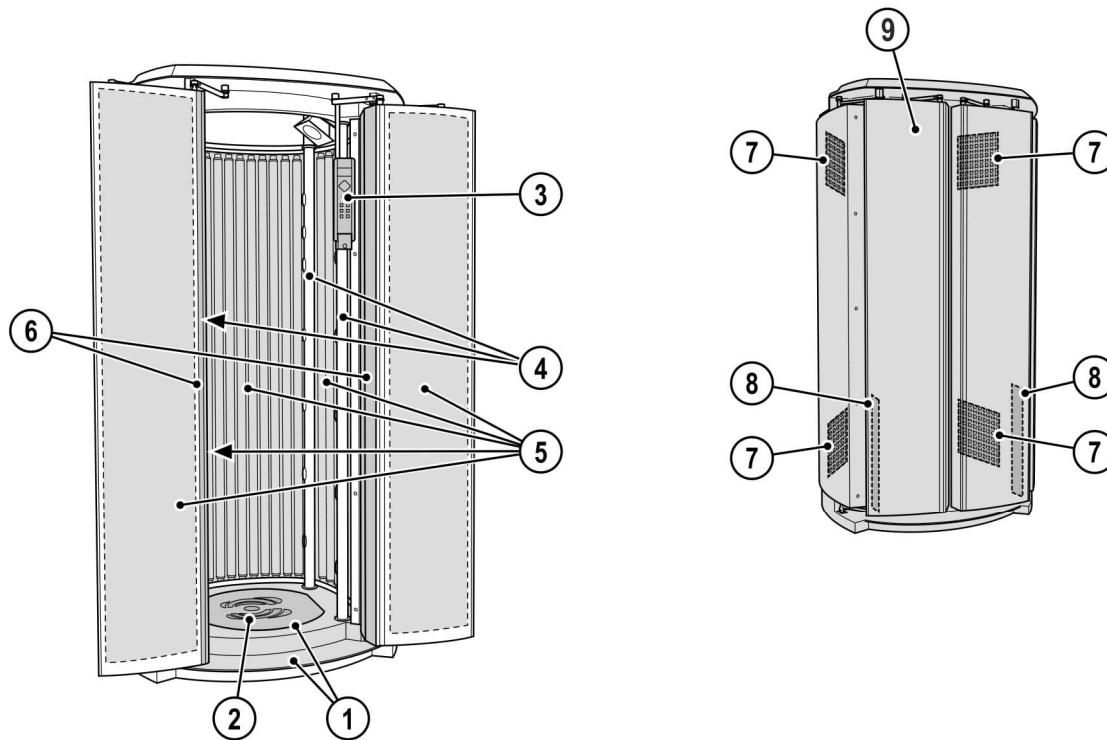
Prevent damage to the acrylic glass and plastic surfaces.

- Remove rings, watches, bracelets etc. before starting cleaning work.

4.4 Lamps

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

4.5 Cleaning plan



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Component		Interval		Activity	See page
		After each application	When necessary	50 h	
1	Entry area	X		Clean and disinfect	42
2	Foot mat (silicone)	X		Clean and disinfect	42
3	Control Center	X		Clean and disinfect	42
4	Handles (inside)	X		Clean and disinfect	42
5	Acrylic glass panels		X	Clean	43
6	Handles (outside)	X		Clean and disinfect	42
7	Filter			X Remove and clean filter	59
8	Filter mats			X Remove and clean the filter mat	59
9	Surfaces		X	Clean	43
	Protective goggles	X		Clean and disinfect	42
	AUX cable	X		Clean and disinfect	42

**NOTE:**

Cleaning must be confirmed after each application by pressing the START/STOP button (when the warm-down time for the main fan has finished).



4.6 Maintenance

Maintenance and care play a major role in deciding whether the device meets the requirements placed on it in a satisfactory manner. Compliance with the specified maintenance intervals and the careful conducting of the maintenance and care work are therefore absolutely necessary.

The current operating hours of maintenance parts can be called up in service mode (see 'Professional Setup Manager'), order no. 1017127-..

We point out that the device 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!

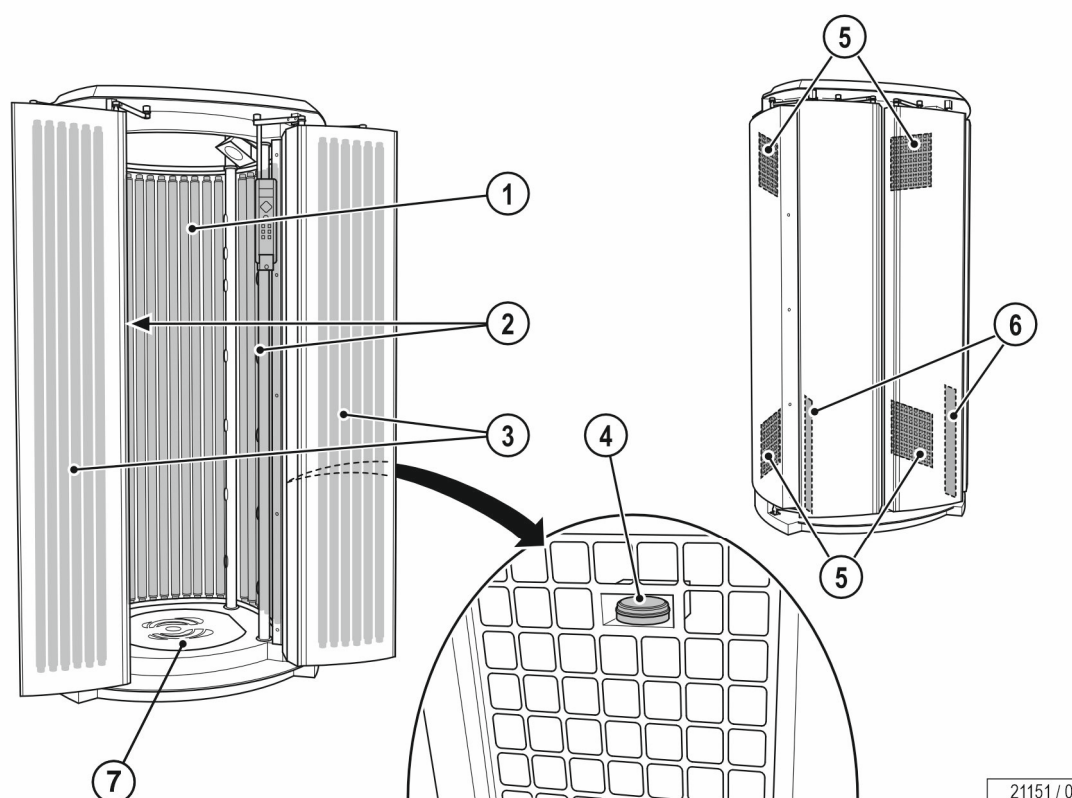
Inspections and maintenance work that has been carried out must be entered in the equipment, operating and maintenance booklet (order no. 1010363-..).

4.7 Maintenance plan

**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.



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Component		Interval				Activity	See page
		Before each use	800 Operating hours	1000 Operating hours	3000 Operating hours		
1	Low-pressure lamps, rear wall		X			Replace	51
2	Low-pressure lamps, Side walls		X			Replace	56
3	Low-pressure lamps, front doors		X			Replace	51
1	Acrylic glass panel, Rear wall	X				Check and replace if necessary.	51
2	Acrylic glass panels, side walls	X				Check and replace if necessary.	56
3	Acrylic glass panels, front doors	X				Check and replace if necessary.	56
1	Acrylic glass panel, rear wall				X	Replace	56
2	Acrylic glass panels, side walls				X	Replace	56
3	Acrylic glass panels, front doors				X	Replace	51
4	AROMA tank					Check and replace if necessary.	61

Component		Interval				Activity	See page
		Before each use	800 Operating hours	1000 Operating hours	3000 Operating hours		
5	Filter			X		Replace	59
6	Filter mats			X		Replace	59
7	Foot mat (silicone)					Check and replace if necessary.	



Maintenance performed by authorized, trained and qualified staff



WARNING!



Danger to people from maintenance work that has not been carried out!

If maintenance work is not carried out, it can lead to material damage or personal injuries!

- Maintenance work may only be carried out by trained and skilled personnel who have been authorised, instructed 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 at the following intervals:

- Annually or every 2000 hours, whichever is sooner.
- Every 3000 hours
- Every 5000 hours
- After 10 years or 20,000 hours, whichever is sooner.

Once the age of the unit reaches ten (10) years from the date of manufacture, its condition must be assessed by a JK-International GmbH, Division JK-Global Service Certified Technician before use of the unit can be continued.

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.



4.8 Instructions for replacing the lamps

DANGER!



Danger of burns from hot lamps and device parts!
If the RedWave Plus-device was operated before being switched off and opened, lamps and housing parts may be hot.

- Before replacing lamps or spare parts, wait until lamps and metal parts of the device have cooled down sufficiently.

RED LIGHT TECHNOLOGY lamps

- Never replace with UV lamps of any type!
- Replace faulty lamps immediately.
- Always replace the entire set of lamps after the specified operating time.
- Call the customer service department to order replacement lamps or with any questions, see page 2.
- Turn 90° and carefully remove from the socket.



NOTICE:

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

- Immediately disconnect the device from the mains power.
- 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.

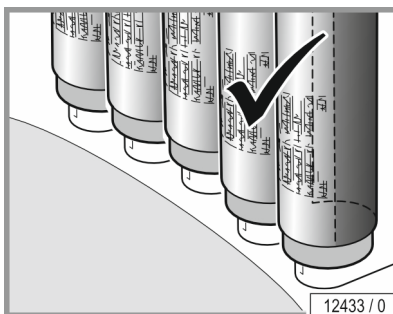
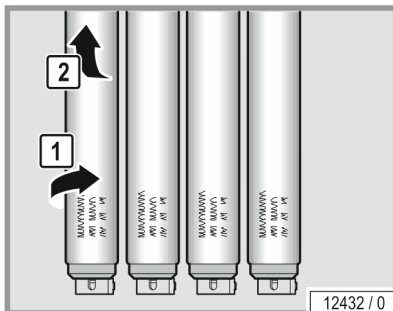
4.8.1 Low-pressure lamps

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.

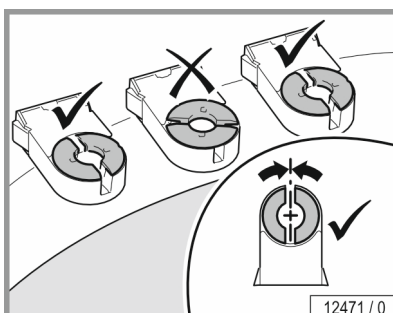
- Low pressure lamps possess a reflector which directs the light outwards.
- The lamps must be mounted so that the rear side of the reflector faces the interior of the unit.

WARNING!

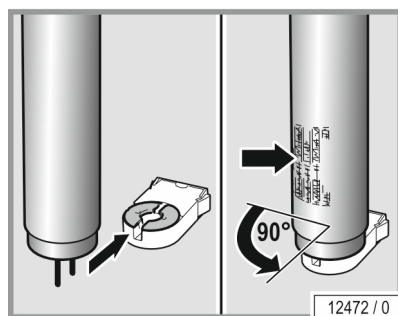


Risk of fire due to incorrect alignment of the lamps!
Incorrect alignment of the lamps leads to loose connections. This can cause overheating and sparking.

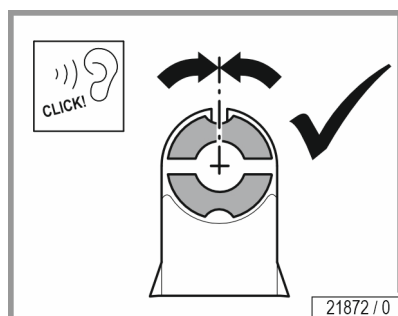
- Check that the socket is correctly aligned!



- 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).



4.9 Cleaning or replacing lamps in the doors



CAUTION!



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.



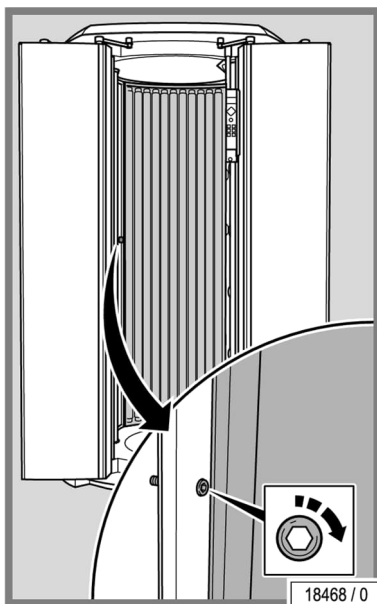
NOTE:

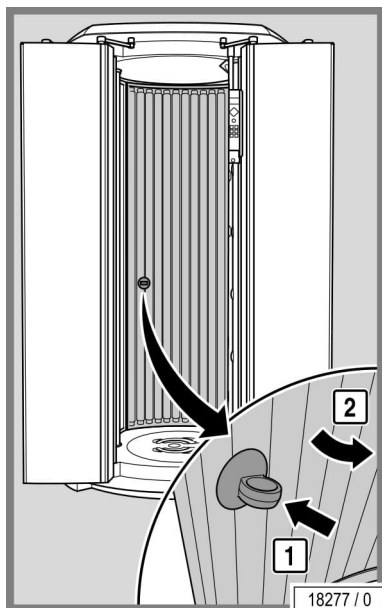
There is a risk of damage being caused to the acrylic glass panels and the operating unit and air ducts!

- Do not knock the acrylic glass panel against the operating unit.

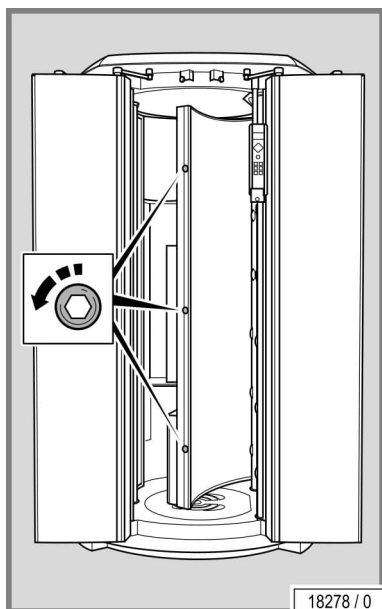
Rear door

- Tighten the screw.

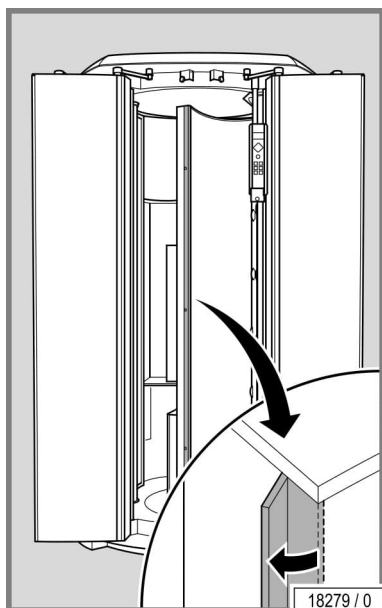




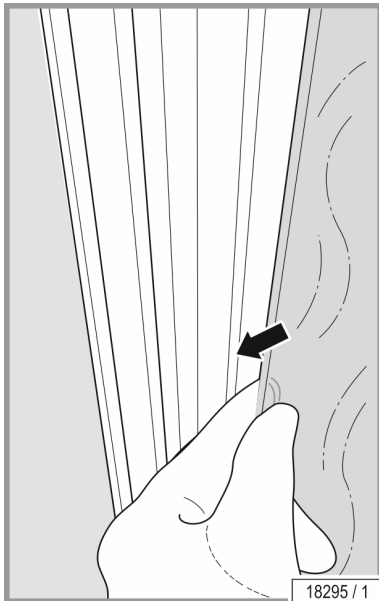
- Use suction cup to open the rear wall.



- Unscrew the screws of the strip.

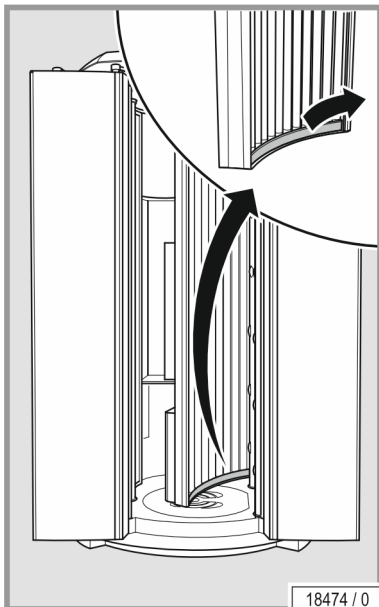


- Fold down the strip.

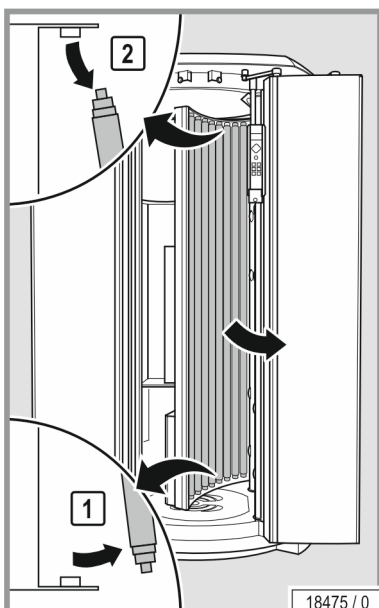


- Remove the acrylic glass panel and carefully lay it aside.

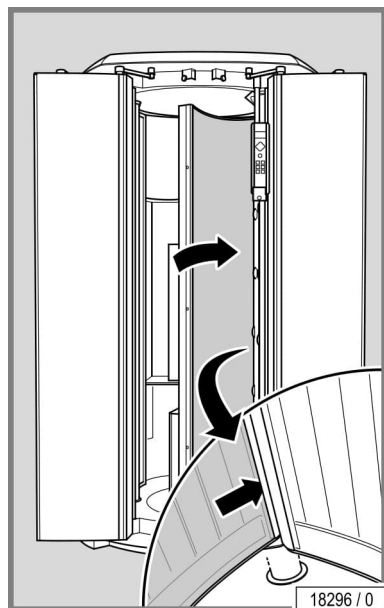
Changing the lamps: see page 48.



- Remove the magnetic cover.



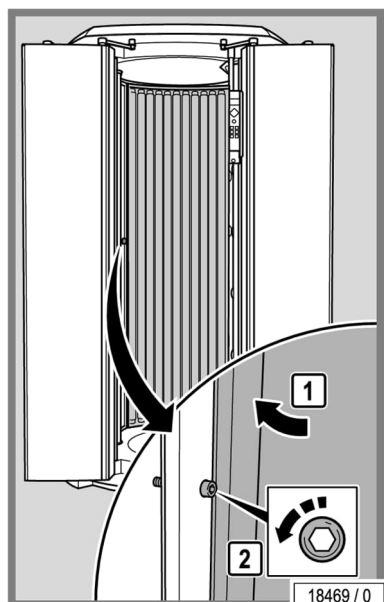
- Pull the lamps out downwards in order to remove them.



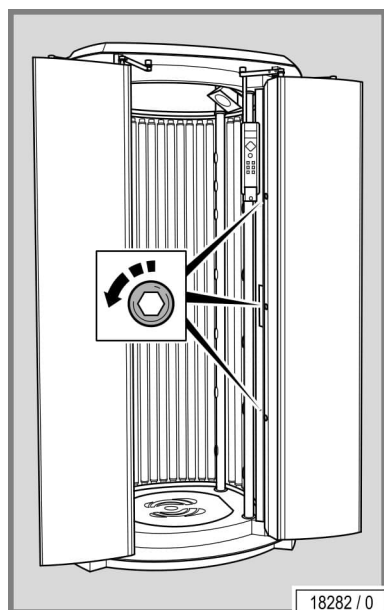
The assembly is the same process in reverse order.

During assembling, observe:

- Insert the panel carefully into the rear guide.
- Close and screw the strip tight.

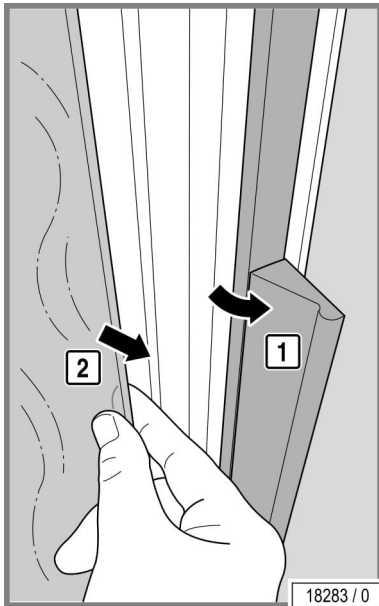


- Close the rear wall against slight resistance.
- Unscrew the screw to lock the door.

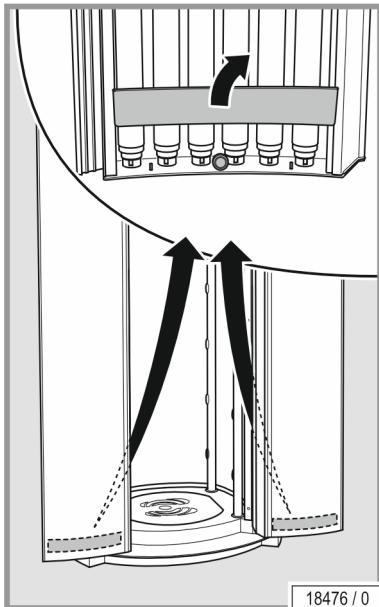


Front doors

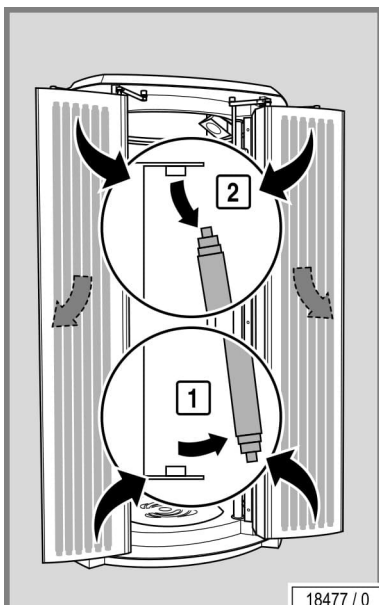
- Unscrew the screws.



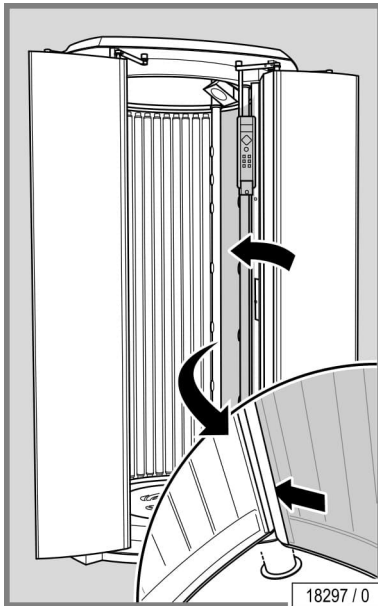
- Fold the strip away.
 - Remove the acrylic glass panel and carefully lay it aside.
- Changing the lamps: see page 48.



- Remove the lamp cover.



- Pull the lamps out downwards in order to remove them.



The assembly is the same process in reverse order.
During assembling, observe:

- Insert the panel carefully into the rear guide.

4.10 Cleaning or replacing lamps on the side walls

CAUTION!



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.

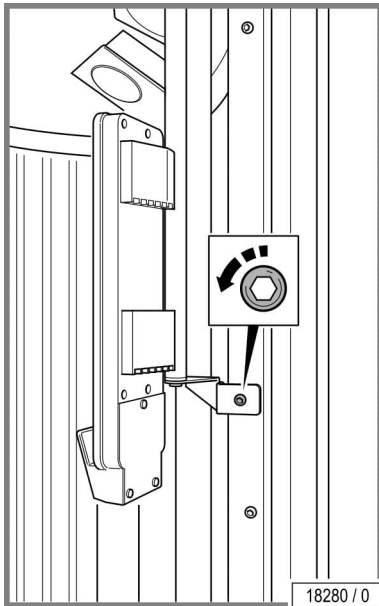
- Remove fingerprints, cleaning residues and other soiling carefully.



NOTE:

There is a risk of damage being caused to the acrylic glass panels and the operating unit and air ducts!

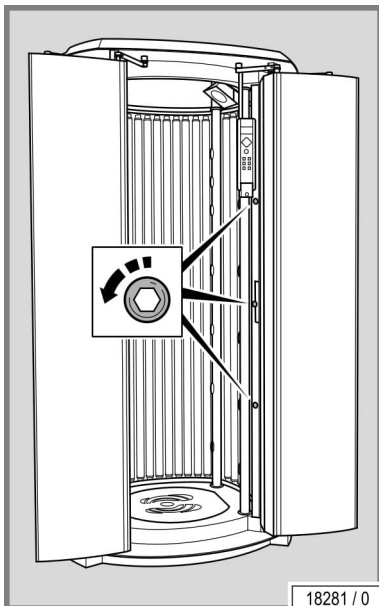
- Do not knock the acrylic glass panel against the operating unit.



Right side wall:

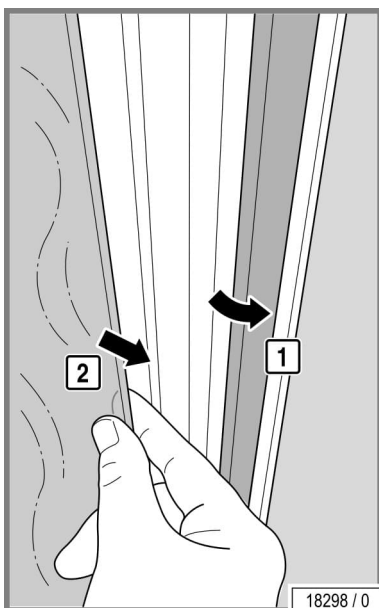
- Unscrew the screws.

Where required, the operating panel can be turned away.



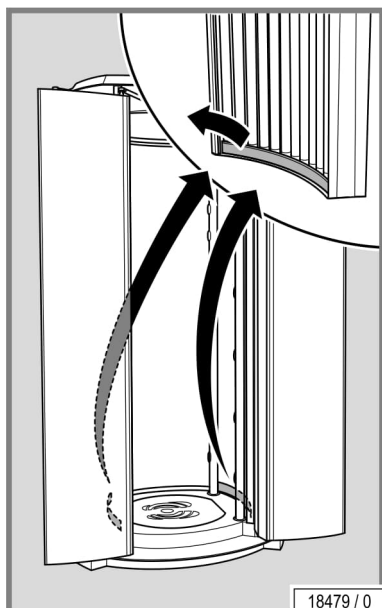
The following work steps apply for both side walls.

- Unscrew the screws of the strip.
- Fold the strip away.

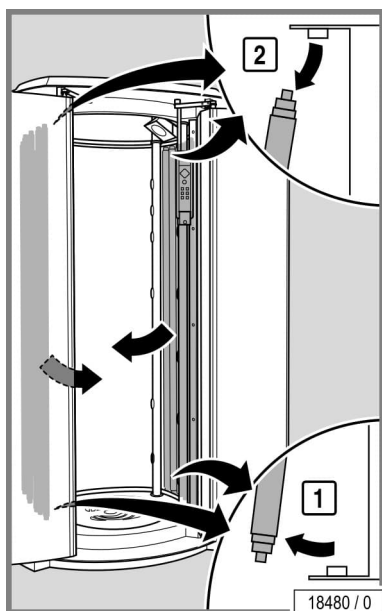


- Remove the acrylic glass panel and carefully lay it aside.

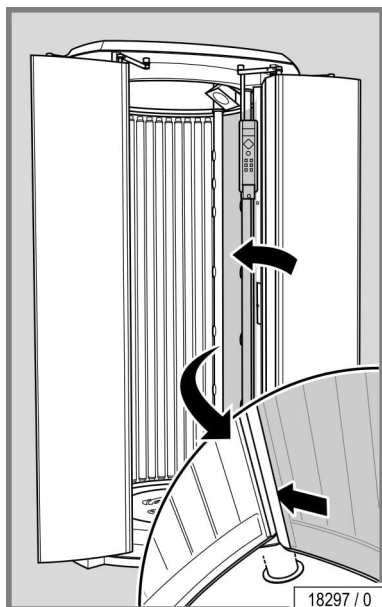
Changing the lamps: see page 48.



- Remove the lamp cover.



- Pull the lamps out downwards in order to remove them.



The assembly is the same process in reverse order.
During assembling, observe:

- Insert the panel carefully into the rear guide.

4.11 Cleaning the filters



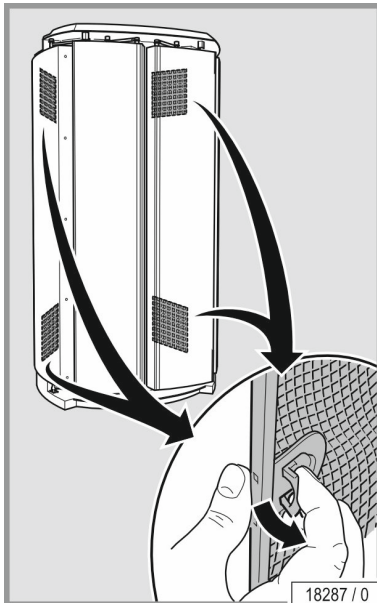
DANGER!



Sharp fan blades!

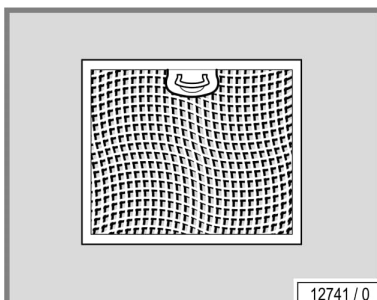
Risk of cuts from the edges when fans are exposed.

- The covers on the sides and the door may only be opened by customer service personnel.



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- Remove the filters.



12741 / 0

- Cleaning the filters when moist or dry.

Dry cleaning: Vacuum cleaner (depending on the degree of soiling)

Moist cleaning: Use water and detergent or put in a dish-washer

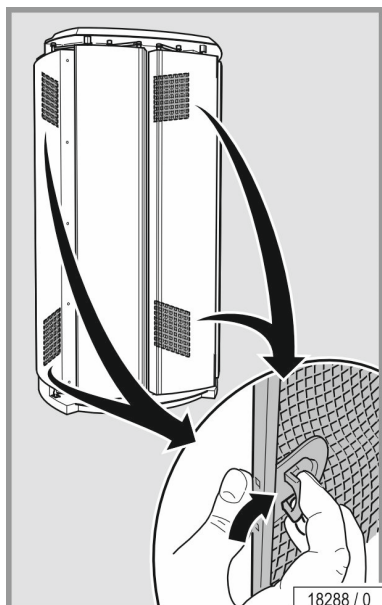


WARNING!



The device may be damaged by moisture!

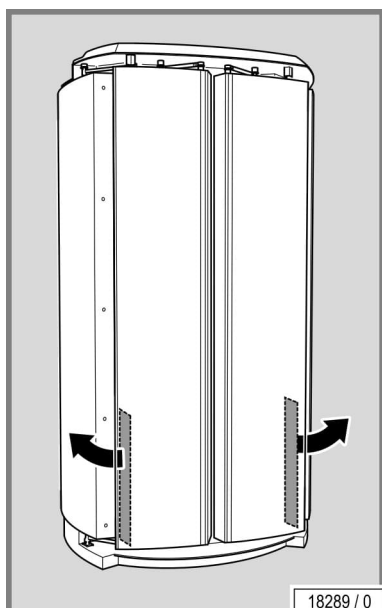
The cleaned filters must be dry before they are re-placed.



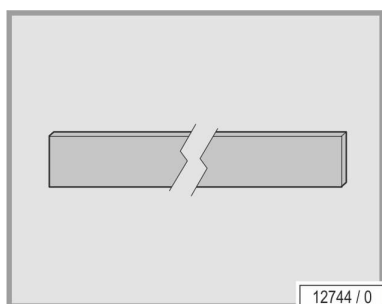
- Refit the cleaned and dried filters.

The assembly is the same process in reverse order.

4.12 Cleaning the filter mats



- Remove the filter mats on the rear side of the doors.



- Dry or moist clean the filter mats or replace with new ones.

Dry cleaning: Vacuum cleaner (depending on the degree of soiling)

Moist cleaning: water and detergent

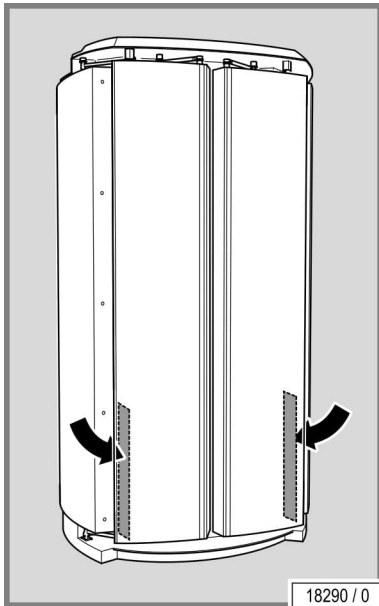
- Do not clean in the dish-washer!

 **WARNING!**



The device may be damaged by moisture!

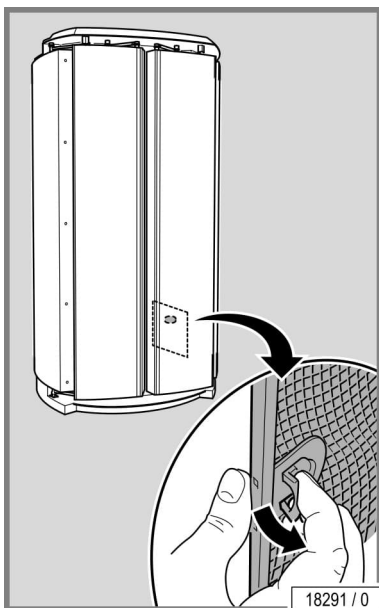
The cleaned filters must be dry before they are replaced.



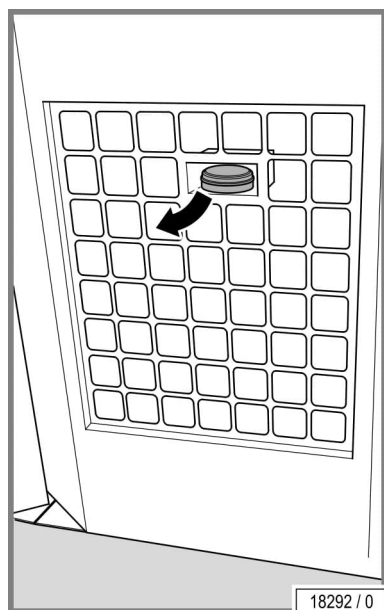
- Refit the cleaned and dried filter mats.



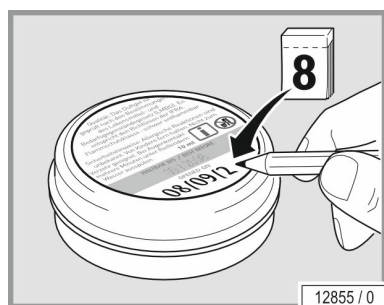
4.13 Changing the AROMA canister



- Remove the filter.



- Remove the VITAL scent can.



- Write the current date on the rear of the new scent can.
- Remove the lid from the canister.
- Insert the new scent can.
- Refit the filter.

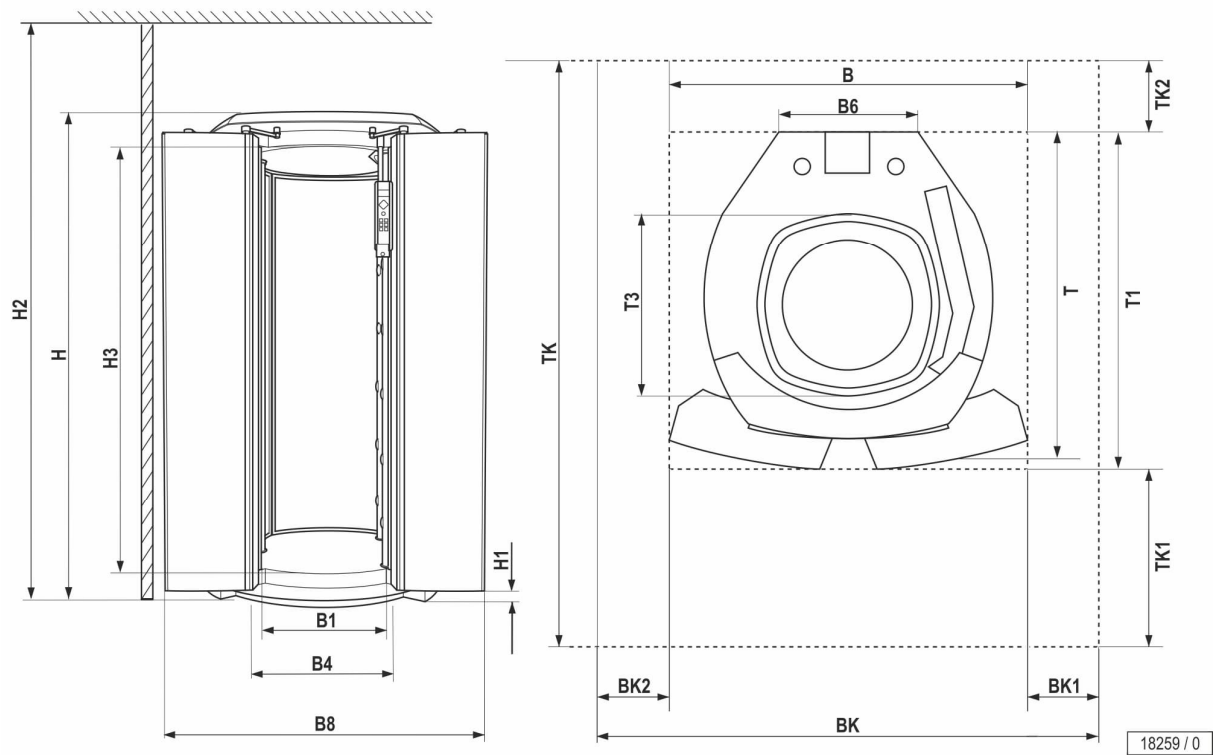
5 Technical data



5.1 Power, connection rating and noise level

RedWave Plus			
Power consumption rating:	6000 W		
Rated frequency:	50 Hz		
Rated voltage:	400-415 V 3N~		230-240 V ~3
Rated fuses:	3 x 16 A (inactive)	or	3 x 20 A (inactive)
Connecting line:	H05VV-F 5G 2,5 mm ²		H05VV-F 4G 4 mm ²
Noise level 1m away from device:	71,6 dB(A)		
Noise level inside the device:	<70 dB(A)		
Load on the base plate:	max. 150 kg		
Weight:	415 kg		

5.2 Dimensions



BK = 1935 mm	B4 = 760 mm
BK1 = 346 mm	B8 = 1440 mm
BK2 = 346 mm	T = 1340 mm
TK = 2400 mm	T1 = 1370 mm
TK1 = 730 mm	T3 = 770 mm
TK2 = 300 mm	H = 2315 mm
B = 1242 mm	H1 = 145 mm
B6 = 590 mm	H2 = 2400 mm
B1 = 580 mm	H3 = 2170 mm

5.3 Lamp sets



DANGER!



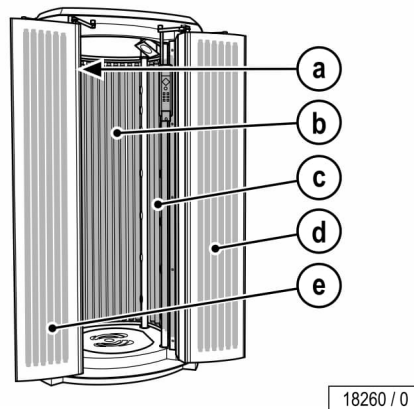
Danger of burns from hot lamps and device parts!

If the RedWave Plus-device was operated before being switched off and opened, lamps and housing parts may be hot.

- Before replacing lamps or spare parts, wait until lamps and metal parts of the device have cooled down sufficiently.



5.3.1 RedWave Plus

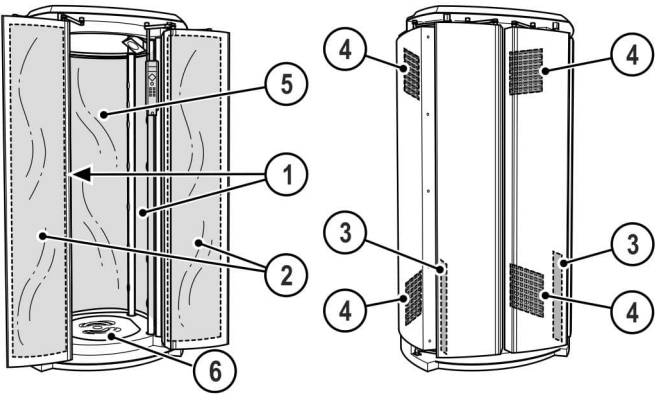


Lamp set

	Number	Description	Length	Power	Control	Order-no.
a)	8	Low-pressure lamps RED LIGHT TECHNOLOGY 180W C3	2,00 m	180 W	180 W	1516505-..
b)	8	Low-pressure lamps RED LIGHT TECHNOLOGY 180W C3	2,00 m	180 W	180 W	1516505-..
c)	8	Low-pressure lamps RED LIGHT TECHNOLOGY 180W C3	2,00 m	180 W	180 W	1516505-..
d)	4	Low-pressure lamps RED LIGHT TECHNOLOGY 180W C3	2,00 m	180 W	180 W	1516505-..
e)	4	Low-pressure lamps RED LIGHT TECHNOLOGY 180W C3	2,00 m	180 W	180 W	1516505-..



5.4 Spare parts and accessories



18293 / 0

Number Description			Order-no.
1	2	Acrylic glass panels (side walls)	1510487-..
2	2	Acrylic glass panels (front doors)	1510485-..
5	1	Acrylic glass panel (inside, door)	1510486-..
	1	Protective goggles	1027211-..
	1	AUX cable	1001855-..
	1	Allen key	83828-..
3	2	Filter mats	1510494-..
4	4	Filter	51937-..
6	1	Foot mat (silicone)	1506532-..
5	1	VITAL scent can	1502665-..

6 Appendix



6.1 JK timer controls

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

HK MICROTIMER 8250 order no.: 500001653

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