

GUARANTEE

The greatest of care was exercised in developing and testing this device: top-quality materials were selected for its manufacture and it was subjected to a final quality-control check before leaving the factory.

This guarantee is valid for a period of 12 month and covers the appliance with the exception of the UV lamp; the guarantee is not affected by any obligations on the part of the dealer which may arise from the sales agreement.

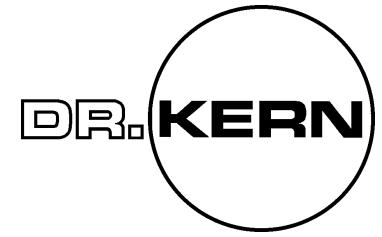
This guarantee does not cover natural wear and tear, damage due to incorrect use or the effects of chemicals or electro-chemicals; nor does it include cosmetic defects which do not affect the operation of the unit. Neither does it cover shipping damage, since claims for settlement in such cases must be lodged with the forwarder.

This guarantee goes into effect only when the purchase date has been confirmed with the dealer's signature and stamp on the attached guarantee card.

Export units are subject to the guarantee terms published by our representative in the particular country.

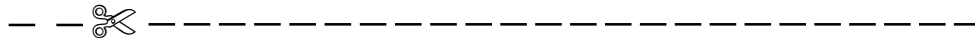
Entitlement to guarantee services is forfeited if the unit is repaired or otherwise tampered with by companies or persons not authorized by us to carry out service work. Claims above and beyond the repair of the unit are expressly excluded.

In case of guarantee claims, please contact our customer service center in the Federal Republic of Germany, if located outside Germany, the local representative or your dealer.



INSTRUCTIONS FOR USE

UVA-HT 420



GUARANTEE CARD

When returning the instrument:
name and address of the purchaser

Date of purchase _____

Stamp and
signature
of the merchant

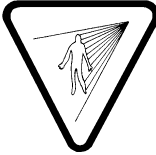


DR. KERN GmbH
Adolf-Weiss-Str. 43
35759 Driedorf
Germany

THIS PRODUCT CONFORMS WITH PERFORMANCE STANDARDS FOR SUN LAMP PRODUCTS UNDER 21 CFR PART 1040.20.

WARNING - ULTRAVIOLET RADIATION - FOLLOW INSTRUCTIONS - FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN SEVERE BURNS OR OTHER EYE INJURY - IF DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT A PHYSICIAN.

ATTENTION - RAYONNEMENTS ULTRAVIOLETS - VEUILLEZ SUIVRE LES INSTRUCTIONS - SANS DISPOSITIF DE PROTECTION DES YEUX, CE PRODUIT PEUT CAUSER DES BRÛLURES OU LÉSIONS OCULAIRES GRAVES - SI VOUS SENTEZ UN MALAISE, EN DISCONTINUER L'USAGE ET CONSULTER UN MÉDECIN.



IMPORTANT - BEFORE USING READ INSTRUCTIONS ON BACK

OPERATING INSTRUCTIONS FOR YOUR DR. KERN SUNLAMP HT420-U

- Read the instruction booklet before use
- Plug cord into 110-120 V 60 Hz A.C. receptacle
- Turn timer to switch on the sunlamp
- After exposure unplug the sunlamp

Model No. 91906900
120 volts 60 Hz A.C. only 420 watts

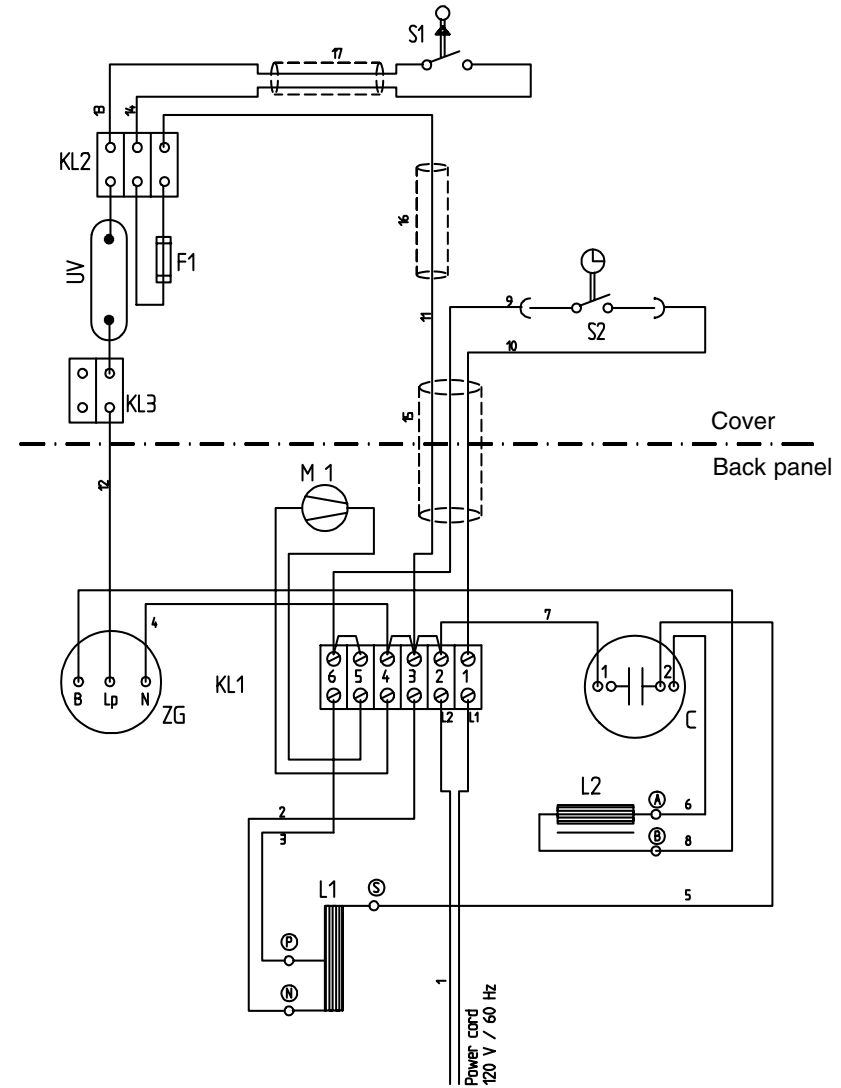
CAUTION - WEAR PROTECTIVE EYEWEAR INTREXCO No. 5635/1s. FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG-TERM INJURY TO THE EYES. THIS PRODUCT COMPLIES WITH 21 CFR 1040.20. RECOMMENDED EXPOSURE - INITIAL EXPOSURE SHOULD NOT EXCEED 15 MINUTES AT A DISTANCE NOT LESS THAN 20 INCHES - 0.5 METER. EXPOSURE AT DISTANCES LESS THAN 20 INCHES - 0.5 METER - IS NOT RECOMMENDED AND MAY RESULT IN OVEREXPOSURE. TANNING MAY APPEAR AFTER ONE APPLICATION. ALLOW 24 HOURS BETWEEN SESSIONS TO OBTAIN A BASE TAN. LAMP - REPLACEMENT ONLY WITH DR. KERN 400 W KAT. NO. 20009255 WITH FDA REF NO. 8720182

DANGER - AS WITH NATURAL SUNLIGHT, OVEREXPOSURE CAN CAUSE EYE AND SKIN INJURY AND ALLERGIC REACTIONS. REPEATED EXPOSURE MAY CAUSE PREMATURE AGING OF THE SKIN AND SKIN CANCER. MEDICATIONS OR COSMETICS MAY INCREASE YOUR SENSITIVITY TO THE ULTRAVIOLET RADIATION. CONSULT PHYSICIAN BEFORE USING SUNLAMP. IF YOU ARE USING MEDICATIONS OR HAVE A HISTORY OF SKIN PROBLEMS OR BELIEVE YOURSELF ESPECIALLY SENSITIVE TO SUNLIGHT, IF YOU DO NOT TAN IN THE SUN, YOU ARE UNLIKELY TO TAN FROM THE USE OF THIS PRODUCT.

ATTENTION - . COMME AVEC SOLEIL NATUREL, TROP DE L'EXPOSITION PEUT BLESSER LES YEUX ET CAUSER UN COUP DE SOLEIL. L'EXPOSITION RÉPÉTÉE PEUT CAUSER LE VIELLISSANT PRÉMATURÉ ET DU CANCER DE LA PEAU. - MÉDICAMENTS OU COSMÉTIQUES APPLIQUÉS À LA PEAU, PEUVENT AUGMENTER LA SENSIBILITÉ À LA LUMIÈRE ULTRA-VIOLETTE. UNE PERSONNE QUI NE SE BRONZE JAMAIS AU SOLEIL NE SERA PAS BRONZÉE AVEC L'USAGE DE CET APPAREIL. AYANT DES PROBLÈMES DE LA PEAU, ELLE DOIT CONSULTER UN DERMATOLOGUE AVANT L'USAGE. IL FAUT ÉVITER UNE EXPOSITION TROP LONGTEMPS. LES ENFANTS, LES PERSONNES D'UN CERTAIN ÂGE, OU LES PERSONNES BLONDES QUI TOUJOURS SE BRÛLENT FACILEMENT OU NE SE BRONZENT JAMAIS OU PRESQUE JAMAIS, NE DOIVENT PAS UTILISER CET ÉQUIPEMENT.

Dr. Kern GmbH, D-35759 Driedorf, Germany

WIRING DIAGRAMM



- C Capacitor 30 μ F
- UV HID lamp 400 watts
- F1 Thermal link
- ZG Ignitor
- L2 Lamp ballast 400 watts
- L1 Stray field transformer
- M1 Fan
- S1 Micro switch
- S2 Clock operated switch

For more information on Dr. Kern Tanning Lamps, call:

1-888-SOLARIA

MAINTENANCE

Always disconnect the plug before cleaning!

Please pay close attention to the condition of the filter glass; it must always be intact and clean. Touching the surface will leave marks which could burn into the glass and weaken the effects of the rays. Use a clean cloth and alcohol to clean the outside surface of the glass. Never open the appliance. All other parts may be wiped down with a cloth moistened with warm water to which a small amount of dishwashing detergent has been added. Do not use any abrasive cleaning agents.

Be careful that no liquid of any kind enters the unit.

SPARES

Only original spares must be used when replacing these. Original spares can be ordered from your after-sales service center or dealer, quoting the appliance Model No. (shown on the type rate label).

The lamp and filter glass are matched one to the other. Two types of glass filters have been certified for use in this appliance.

UVISOL 95 (blue glass)
Glaverbel VHR (clear glass)

Lamp-Replacement only with Dr. Kern 400 W lamp No. 20009355 with FDA reference No. 87200182.

The operating life time of the UVA high pressure HPA-lamp is approx. 500-800 hours.

CHANGING THE LAMP

As the case for all maintenance operations, the unit must be disconnected from the power supply. For changing the lamp, the housing of the appliance must be opened. For this unscrew the back panel of the housing, which is fixed with 5 screws to the front cover. The bulb is mounted between the ceramic clamps beside the reflector.

Do not touch the glass body of the new metal halogen lamp, it should only be held by the flat part at one end.

The changing of the lamp and all repairs should only be carried out by a specialist or by an authorized shop.

TECHNICAL SPECIFICATIONS

Supply voltage: 120 V AC 60 Hz
Power drawn: 420 W
Dimensions
H/W/D (mm): 465/255/150
Weight: approx. 8 kg
UV Generator: Dr. Kern Type HTC
400 W FDA 8720182
Metal-halogenide high-pressure lamp with special combination filter

The UV lamp unit complies with CFR 1040.20

Maximum recommended exposure period
30 minutes

Threshold/continuous ratio qs=6,3

Only those spare parts which we supply or approve may be used if repairs become necessary. The lamp and filter are matched one to the other. Repairs should be carried out only by an authorized shop

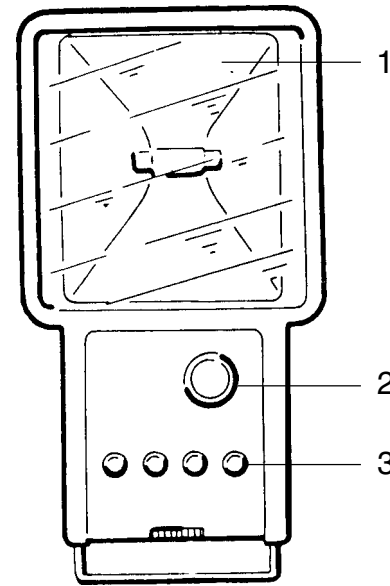


Fig. 1a

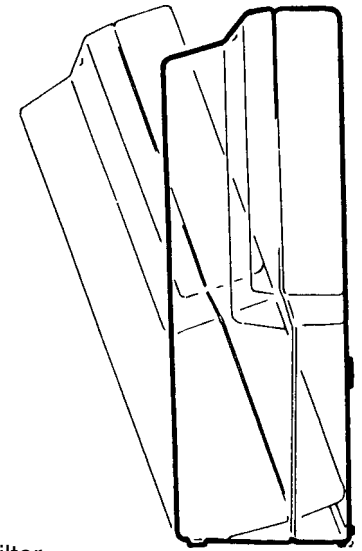


Fig. 1b

- 1 Special-design filter
- 2 Electromechanical timer
- 3 Reminder dials

The appearance of the appliance may vary from the details shown in the drawings.

GENERAL INFORMATION

The sun's natural rays give warmth, visible light and ultraviolet light. In regard to their effect on the skin, the UV spectrum is subdivided into the UV-A, UV-B and UV-C segments. The longer UV-A waves are gentle to the skin, even at higher concentrations, and tan the pigments just beneath the surface of the skin. Light in the UV-B range is what initiates the formation of pigment, but it can also cause sunburn. The atmosphere shields us against the UV-C rays, which as a result do not reach the earth's surface.

Filtering out these UV-B rays almost entirely will effectively eliminate sunburn. But the production of melanine would then not be stimulated. This substance is converted into pigment in the cells at the surface of the skin; it then darkens under the influence of UV-A light, causing the skin to tan.

The UV-A light of the sun is very slow in causing a tan. Only at intensities higher than those of natural sunlight is UV-A able to tan the skin more quickly, by means of so-called direct pigmentation of the pigments already present in the skin. Nowhere on earth the sun can supply UV-A radiation at this level without an accordingly high share of UV-B. Only a high-performance unit with a costly filter and cooling system can generate this level of UV output: The DR. KERN UVA HT 420. Special precautions must be observed when using the HT 420 - PLEASE READ AND OBEY THE FOLLOWING.

IMPORTANT!

Read the instructions for use carefully before putting the appliance into service.

- The appliance is intended for connection to 120 V/60 Hz.
- Unplug the power cord whenever the unit is not in use.
- Repairs to the appliance should only be carried out by a specialist or by an authorized shop.
- Objects which could fade or be damaged by the sun's rays should not be exposed to UV light of the unit for extended periods.
- The appliance should only be operated in a dry area shielded from splashing or dripped water. Do not use the unit in damp rooms or near swimming pools.
- Do not cover any part of the unit and the ventilation grilles in particular.
- In case of failure of the cooling fan (causing abnormal warming of the unit), switch the unit off immediately.
- Be absolutely certain that the filter pane is in perfect condition; tanning with a defective filter will cause serious skin burns.
- Do not switch on the unit in any area where there may be explosive vapors.
- Allow the appliance to cool down for at least 15 minutes before storing it.
- The unit is allowed to use only by one person at the same time.
- Protective eyewear must be worn by all persons in room with an operating lamp to avoid injury to the eyes. Only one pair of protective eyewear has been provided with the lamp.

- Do not use any tanning device without your physician's approval if there are signs of illness or unexplained symptoms. This also applies when taking medicines, and in particular those which will increase sensitivity to the sun or light.
- Children do not realize the danger which can occur in the use of electrical appliances and UV-radiation. Therefore, children must never be allowed to operate the unit. Do not allow children to use the tanning appliance without supervision.
- Always avoid overexposure to UV light. This is true for every tanning unit and to a far greater extent for the natural sun.
- Do not use any protective creams or a sun screen. The skin should be clean and free of cosmetics.
- The skin should be treated with a moisturizing cream after each tanning session to protect it from drying.
- This appliance is not designed for use in medical purposes.

TANNING INSTRUCTIONS

The length of the tanning sessions will depend on your particular skin type. See page 5. Always wear protective glasses or goggles when tanning. Ten sunbaths in a row make up the normal tanning cycle; the length of the individual sessions should be selected in accordance with the table. Then take a break for four weeks.

Do not attempt to achieve a quicker tan by extending the length of the tanning treatments. If you feel that your skin is tight and reddened, you should reduce your tanning time by 5 minutes and tan only on alternate days.

It is not possible to obtain a deeper tan than what would be possible in the sun at ideal conditions; your skin type is what ultimately determines the degree of tan which you will

achieve. It is quite natural that fair skin, in particular, which hardly develops any pigments at all in the natural sun, will be just as difficult to tan under artificial sun.

EXPOSURE TIMES

RECOMMENDED EXPOSURE SCHEDULE		MAXIMUM EXPOSURE TIMES (IN MINUTES)			
CLASS:	SKIN TYPES:	week 1	week 2	week 3	MAX
I	Sensitive Skin (Burns easily and severely, and does not tan.)	TANNING NOT ADVISED			
II	Light Skin (Burns easily and severely, and tans minimally.)	20	22	26	30
III	Normal Skin (Burns moderately, and tans moderately.)	28	32	36	40
IV	Dark Skin (Burns minimally, and tans well or above.)	40	48	54	60

Subsequent sessions of 30 minutes each may follow the fifth day of tanning. Then you should take a break of 3 to 4 weeks. Further "refresher" sunbaths may then be taken to maintain your tan: their frequency will depend on your skin type. Using a good moisture cream after each sunbath is strongly recommended.

SETTING UP FOR OPERATION

Place the appliance on a stable surface (usually a table). Connect the unit only to a 120 V AC power source.

The length of the tanning session is set at the electromechanical timer by rotating the knob. The unit switches on automatically when this knob is set.

Important! The lamp will not light if it is hot. Allow it to cool for three to four minutes before restarting the appliance.

Assume a comfortable position after setting the proper time (see the following section); the face should be about 20 cm (8 inch) from the filter glass. A shorter or longer distance will result in shorter or longer tanning periods. You may select the dis-

tance you prefer, remembering that the distance will affect tanning intensity. Tanning the upper body will require a distance of 50 cm; the light will then cover the area from the head to the waist.

Tanning begins once you have set the time. The UV lamp takes about three minutes to reach full power. Observe the tanning instructions.

REMINDER DIALS

As mentioned above, there are five to ten tanning sessions in a series. Advance the dial by one digit for each tanning session; this will help you keep track of how many sessions you have completed. There are dials for four users.