

hotty LED

No. 1461-0000 / No. 1461-1000

Bedienungsanleitung

Instruction manual • Mode d'emploi

Istruzioni d'uso • Instrucciones de servicio

Инструкция по эксплуатации

取扱説明書 • 사용 설명서 • 操作说明书



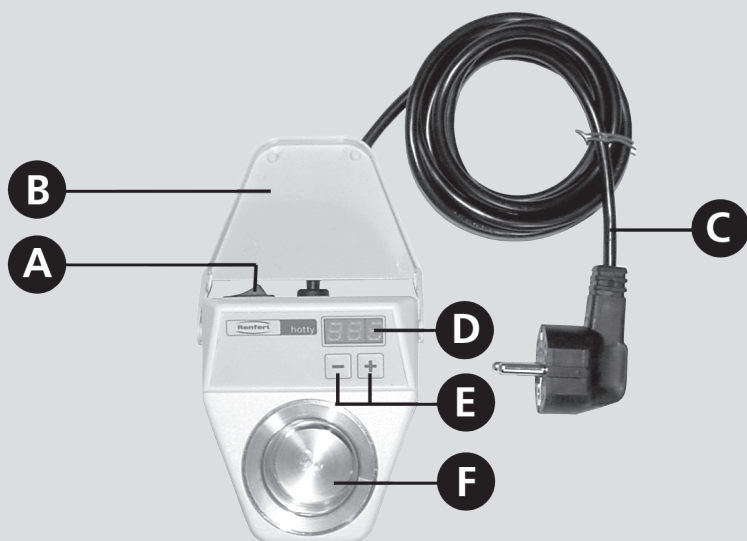
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Made in Germany

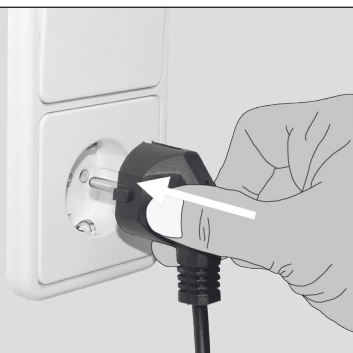
Renfert

Ideas for dental technology

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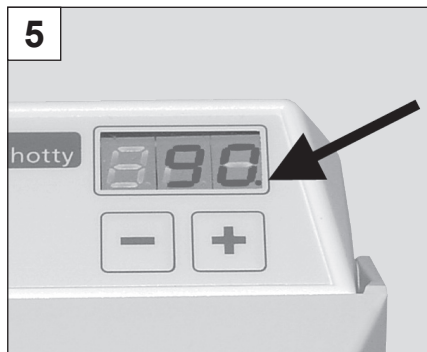
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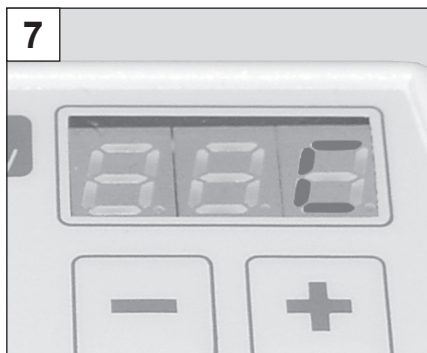
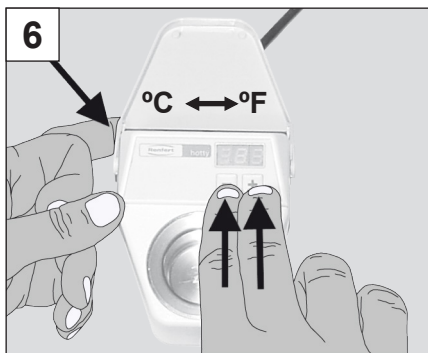


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ENGLISH

1. Introduction

Thank you for purchasing our *hotty LED* wax dipping unit.

Please observe the following notices, they will help provide you a long and problem free lifetime of your wax dipping unit.

2. Application area

The *hotty LED* is an electronically regulated wax dipping pot. It is ideally suited for melting and retaining any conventional dipping wax.

The *hotty LED* shows its quality in use when it comes to the following points:

The **precise temperature control** (+/- 2 °C [3.6 °F]) provides you with a very constant quality of copings. Together with the heating unit, which reacts to the environmental temperature, this excludes the possibility of over heating and consequent damage to the dipping wax.

Please be aware that the initial heating process is very gentle to the dipping wax and it may take some time before the wax is fully melted. Thanks to a slow **continual increase of the working temperature**, there is no chance that the temperature inside the pot will exceed the set point.

The *hotty LED* offers you **optimal working conditions**. The housing is designed to let both left and right-handed people rest their hand on the working table whilst dipping. In addition, the lid of the wax-dipping unit can be moved completely out of the working area.

2.1 Environmental conditions

(In accordance with EN 61010-1)

The unit may only be operated:

- Indoors;
- Up to an altitude of 2,000 m [6,500 ft] above sea level;

- At an ambient temperature of 5 - 40 °C [41 - 104 °F] *;
- At a maximum relative humidity of 80 % at 31 °C [87.8 °F], decreasing linearly to 50 % relative humidity at 40 °C [104 °F] *;
- With a mains power supply where current fluctuations do not exceed 10 % of the nominal value;
- Under level 2 contamination conditions;
- Under overvoltage category II conditions.

*) Between 5 - 30 °C [41 - 86 °F], the unit can be operated at a relative humidity of up to 80 %. At temperatures between 31 - 40 °C [87.8 - 104 °F], the humidity must decrease proportionally in order to ensure operational readiness (e.g., at 35 °C [95 °F] = 65 % humidity; at 40 °C [104 °F] = 50 % humidity). The unit may not be operated at temperatures above 40 °C [104 °F].

3. Safety Information



***hotty LED* is an electrical appliance with a danger potential. This appliance may be connected / used only by authorized and qualified persons after checking its conformity with respect to the national norms.**



Before initial use, check the voltage recommendations on the name plate (rear side of the unit) and compare with the mains supply.



Units with damaged power cables or other defects are not to be used.



Mains supply cable (C) must be unrolled when in use (danger of over heating in the event of short circuit).



Molten wax can cause severe burns to the skin. Do not move the unit once in operation.



The wax melting pot (F) heats up during use right to the rim. Incorrect use can lead to burns, even 30 min. after the unit has been switched off.



The *hotty LED* is only intended for use with conventional dental dipping wax. Under no circumstances should it be filled with other materials.



Please remember: overfilled pots can easily overflow!



Materials with a flash point below 175 °C [347 °F] are not to be stored in the vicinity of or in contact with the *hotty LED*.



Do not rinse or dip into water! Mains supply can cause electric shock!



It is the responsibility of the operator that national regulations during operation and regarding a repeated safety inspection of electrical equipment are complied with. For Germany these are BGV A3 in relation with VDE 0701-0702.



Only spare parts and accessories supplied or authorized by Renfert GmbH may be used with this product. If other spare parts or accessories are used, this could have a detrimental effect on the safety of the device, increase the risk of serious injury and lead to damage to the environment or the device itself.

- The product is repaired by other than an authorised facility or if any but Renfert OEM parts are employed;
- The product continues to be employed, despite obvious safety faults;
- The product is subjected to mechanical jarring or is dropped.

4. Operating Elements (fig. 1)

- A) On / Off Switch
- B) Lid
- C) Power Cable
- D) LED Display
- E) Temperature Setting - / +
- F) Heating Pot

5. Commissioning / Operation

1. Connect *hotty LED* to the mains supply (fig. 2).
2. Flip the lid (B) open (fig. 3).
3. Fill the pot with dipping wax (F) (fig. 4).
4. Turn on the *hotty LED* by pressing the button (A). The LED-Display (D) now shows the chosen temperature setting (°C or °F), changes then to show the nominal temperature, then changes finally to show the actual temperature.
5. The LED-Display shows a small indicator in the bottom right hand corner (fig. 5). As soon as the nominal temperature has been reached, this indicator will go out.

5.1 Setting the Temperature scale to °C or °F



Please observe that all 230 V units are pre-set to centigrade (°C) and that all 120 V units are pre-set to Fahrenheit (°F).

1. Steps 1 - 4 (point 5) must be fulfilled before doing this.
2. Press and hold buttons - and + (fig. 6) and turn on the *hotty LED* by pressing the button (A).

3.1 Liability Exclusion

Renfert GmbH shall be absolved from all claims for damages or warranty if:

- The product is employed for any purposes other than those cited in the operating instructions;
- The product is altered in any way other than those alterations described in the operating instructions;

3. The LED-Display (D) now shows
C = degrees Celsius (fig. 7) or
F = degrees Fahrenheit (fig. 8).
4. After 5 seconds, the display changes between **C** and **F** or vice versa, then release buttons - / +. Following this, you will see the nominal temperature displayed shortly, then the actual temperature.

5.2 Setting the nominal temperature

To set the temperature, press buttons -/+ (E) repeatedly until the required value is displayed (fig. 9). This value is saved automatically after 5 seconds even after the unit is switched off.



Notice:

The nominal temperature is saved automatically within 5 seconds. After that the *hotty LED* can be turned off using the button (A) or the mains supply. All values will be saved.

5.3 Dipping (fig. 10)

- Support the hand well.
- Dip your object quickly into the wax, past the preparation margin.
- Pull the object back out in a slow movement.
- Hold shortly before the tip of the die leaves the wax pot, allowing excess wax to drip off.

6. Cleaning and Maintenance

The *hotty LED* is maintenance free. Wipe off the surface from time to time using a damp soft cloth.

Never use detergents or solvents!



Never rinse the *hotty LED* with running water!

Cold wax remnants can be removed by carefully scraping them off.

Lightly warming the surface with a hairdryer makes it easier to remove any unwanted wax.

7. Spare Parts

You can find components subject to wear and the spare parts on the spare part list in the internet at www.renfert.com/p918.

The components excluded from the warranty (such as consumables or parts subject to wear and tear) are marked on the spare part list.

Serial number and date of manufacturing are shown on the type plate of the unit.

8. Guarantee

Under proper use, Renfert warrants the *hotty LED* for a period of **3 years**. Conditions for the fulfilment of this warranty include the presentation of original buyers receipt from a recognised dealer. Parts which are subject to natural wear and tear (wear parts) and consumables are excluded from the guarantee. These parts are marked in the spare part list.

Warranty becomes void in a case of improper use, failure to observe operating, cleaning, maintenance and connection instructions. Also in the case of independent repairs or repairs carried out by unauthorised personnel, or if unauthorised spare parts are used and when influences unusual or in noncompliance with the instructions for use apply. Services carried out under warranty do not extend the warranty period.

9. Technical Specifications

Maximum power: 23 W (+/- 10 %)

Minimum operating temperature: 60 °C [140 °F]

Maximum operating temperature: 110 °C [230 °F]

Power Supply: 230 V / 50 - 60 Hz
100 - 120 V / 50 - 60 Hz

Safety Appliances:

Fuse (not changeable)
rating: 230 V = T 500 mA / 250 V
100 - 120 V = T 250 mA / 250 V

Dimensions
(w x h x d): 90 x 65 x 98 mm
[3.55 x 2.56 x 3.86 inch]

Weight: approx. 400 g

10. Scope of Delivery

1 *hotty LED* Wax dipping unit

1 Operating Instructions

11. Accessories

GEO-Dip Dipping Wax (elastic):

No. 482-3000 *GEO-Dip* yellow, 200 g

No. 482-3200 *GEO-Dip* orange, 200 g

No. 482-3300 *GEO-Dip* green, 200 g

Rewax Dipping Wax (hard, non-elastic):

No. 651-0000 *Rewax* yellow, 210 g

12. Troubleshooting

Error	Possible cause	Corrective action
No display / no operation, although the unit is switched on the main switch (A).	• Power supply interrupted. • Faulty overheat fuse. • Faulty unit fuse.	• Check the power supply and power cords. • Have fuse replaced by Service Department. • Have fuse replaced by Service Department.
The unit is operating but there is no increase in temperature.	• Faulty thermal sensor. • Faulty heater.	• Have probe replaced by Service Department. • Have heater repaired by Service Department.
Temperature has been changed but is not saved.	• Mains supply interrupted before saving values (5 seconds after changing values).	• Change again temperature and turn off unit only after 5 seconds.

13. Disposal instructions for countries in the EU

To conserve and protect the environment, prevent environmental pollution and improve the recycling of raw materials, the European Commission adopted a directive that requires the manufacturer to accept the return of electrical and electronic units for proper disposal or recycling.

Within the European Union units with this symbol should not therefore be disposed of in unsorted domestic waste:



For more information regarding proper disposal please apply at your local authorities.

Subject to modifications.

**Hochaktuell und ausführlich auf ...
Up to date and in detail at ...
Actualisé et détaillé sous ...
Aggiornato e dettagliato su ...
La máxima actualidad y detalle en ...
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Ideas for dental technology

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