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Dear customer,

Thank you for purchasing the newest product of the Taifun®-Series from SmokerStore, the "Skarabaeus" (scarab).

It is an unregulated battery carrier for an exclusive use in so-called "e-cigarettes".

A unregulated battery carrier passes the instantaneous battery voltage (approximately 3.0 - 4.2V depending on the charge level) DIRECTLY to the evaporator.

In contrast to a regulated battery carrier, which makes the battery voltage or power available to the evaporator REGARDLESS of the battery voltage!

We wish you to spend a long and comfortable time with this high quality and easy-to-use unit.

We warrant this product for a period of 12 months from purchase.

In addition, national warranties apply.

SAFETY INSTRUCTIONS

Please read these instructions carefully! The manufacturer is not liable for any damage caused by improper use.

- The device is not suitable for children or people with limited power of comprehension. Keep the device away from these people! This device is not a toy!
- Use only ONE protected Li-ion battery for this unit! A protected Li-ion battery is a rechargeable battery with an integrated electronic fuse (e.g. 7A).

Accordingly build your coil. E.g.:

Max. battery voltage 4.3V / 7A protected battery = 0.61Ω

=> coil resistance > 0.61Ω !

Max. battery voltage 4.3V / 5A protected battery = 0.86Ω

=> coil resistance > 0.86Ω !

Ask your specialty retailer for protected batteries!

- In case of reverse polarity the RED LED lights up, the battery carrier vibrates and the steaming starts immediately (DANGER).

REMOVE THE BATTERY COVER IMMEDIATELY and place the battery in the correct orientation!

The battery carrier is NOT damaged.

- If you do not use the battery carrier for a long time, e.g. at night, please remove the battery!
- The evaporator coil gets hot (red hot). Turn on the device fully assembled only. Fire and burn hazard!
- Do not operate the unit in an environment that is near or around flammable gases, vapors or dusts! Danger of explosion!
- The battery is heavily loaded during operation. Using unsuitable batteries can cause short circuits with consequences such as fire or explosion!

Follow the safety instructions of the battery manufacturer!

- Pay special attention on deformation, smell or smoke emission of the battery! There is a danger of explosion or fire in case of a faulty battery!
- Keep the device dry!
- Keep the device away from heating elements!
- Do not apply electrical voltage to the device!
- The device is only intended to provide the battery voltage to an evaporator unit with a minimum of voltage drop, for the purpose of a so-called "e-cigarette"!

Any other use is neither permitted nor covered by the warranty!

- This device is neither a medical device, nor it is suitable for such purposes!
- For all personal injury and property damage that are caused by improper use, the operator is responsible, not the manufacturer!
- Due to the many possibilities and scenarios (various types of batteries and coils), all operating and connection errors are beyond our control.

For damages arising out of it, we can assume no liability!

- The manufacturer is not liable for damaged evaporators!

OPERATION

This battery carrier is characterized by its simple technical construction. But it eliminates the usual drawbacks of a mechanical power buttons like relatively high on-resistances and increased wear at high currents.

The "Skarabaeus"-button only switches a control signal for a "final stage" with a resistance of less than 0.002Ω .

This enables the battery carrier to switch currents up to 30A. Use only the protected battery (see safety instructions)!

However, high currents ($> 10A$) challenge EVERY battery extremely (Note the safety regulations of the battery manufacturer).

The contacts and the internal resistance of the battery (bad quality or end of life) can then form a higher resistance than the coil, so they convert more power into heat (such as a short circuit)!

In this case - even with a fully charged battery - you measure a CLEARLY lower voltage at the evaporator than without load (no evaporator).

This voltage drop occurs at the battery-internal resistance and the contact points and NOT at the electronics (see voltage loss of the electronics in the specifications)!

When you insert the battery correctly (the positive terminal first) and TIGHTLY screw the battery cap (without violence), you can enable the evaporator with the button.

Through an opening in the switch, a green LED lights up more or less intensely, depending on battery level, until it fades at about 3V.

Note: Continued use is still quite possible! But eventually you damage or destroy the battery (see specifications of the battery manufacturer)!

If the LED does not light up, the battery is empty or faulty, or the evaporator has a short circuit!

If the LED lights red (additional vibration of the battery carrier and maximum current flow to the evaporator) the battery is inserted the wrong way round!

In this case, IMMEDIATELY REMOVE THE BATTERY and place it in the correct orientation!

For short-term protection against accidental switching on, pull the switch up slightly and turn it counter-clockwise (to the left) until it

stops! Accordingly reversed for a restart.

But this is NO ALTERNATIVE TO TAKING THE BATTERY OUT OF THE DEVICE when not using it for a longer period of time.

You have to consider the possibility of a defect or malfunction and its consequences on EVERY technical device!

Prevent any ingress of liquid through the button!

Repeated Warning: This device takes no account of coil resistance or internal resistance of the battery!

In case of disregarding the instructions or lack of knowledge about Ohm's law, this device can DESTROY the coil and / or battery IMMEDIATELY (especially in reverse polarity)!

Sample calculations for coil resistances and the power range of a conventional battery:

battery voltage (fully charged) of 4.2V ; coil resistance of 1Ω
=> $4.2V / 1\Omega = 4.2A$ => $4.2V * 4.2A = 17.6W$

battery voltage (empty) of 3.0V ; coil resistance of 1Ω
=> $3.0V / 1\Omega = 3.0A$ => $3.0V * 3.0A = 9.0W$

Only use protected batteries!

SPECIFICATION

Operation with ONE protected Li-ion battery with flat (flat-top) or increased (button-top) positive.

Max. operating voltage: 4.5V

Min. coil resistance: 0.13Ω

Max. operating current: 30A – Danger to the battery

Max. peak current: 50A(70A) – Short-circuit the bat.

Standby current: < 0.1mA

Voltage loss (Volt-drop) of electronics without contact resistances and internal resistance of the battery:

Voltage loss @ 10A: ca. 0.02V

Voltage loss @ 20A: ca. 0.04V

Voltage loss @ 30A: ca. 0.07V

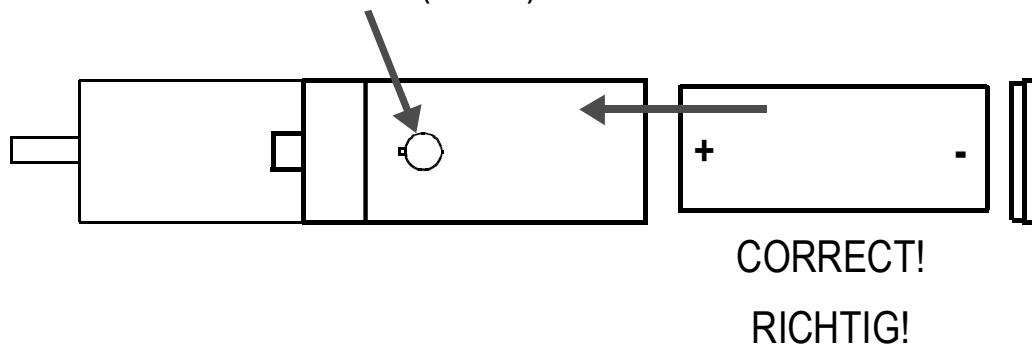
INSERTION OF THE BATTERY / EINLEGEN DER BATTERIE

LED lights green = okay

No LED = battery empty (<3.0V) or Short-circuit

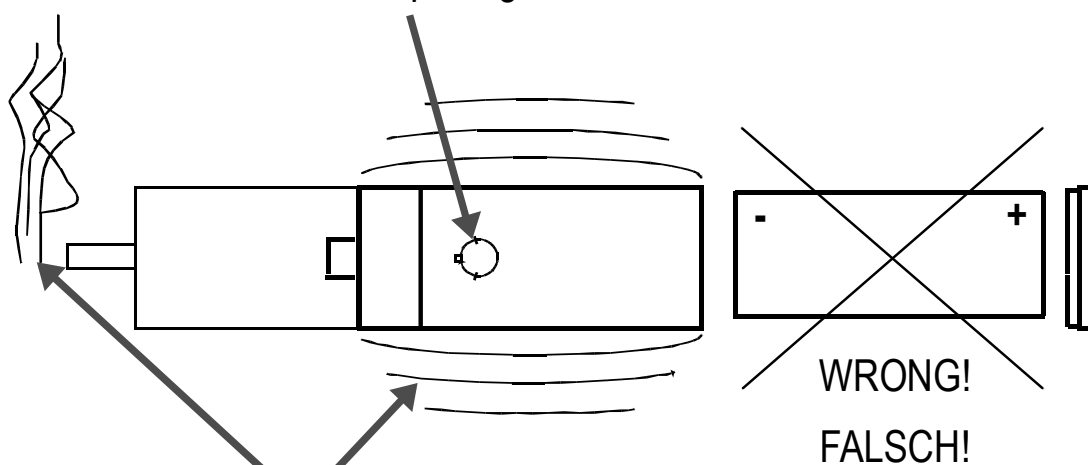
LED leuchtet grün = okay

Keine LED = Batterie leer (<3,0V) oder Kurzschluss



LED lights red = wrong direction!

LED leuchtet rot = Verpolung!



Steam without pressing the button!
battery carrier vibrates!

Dampf, ohne den Taster zu drücken!
Batterieträger vibriert!

Use a single protected Li-ion battery exclusively!

Ausschließlich einen einzelnen Li-ion-Akku verwenden!