



V4.5/V4.5L

Instruction manual



english

**IMPORTANT!**

Please carefully read this instructions manual before using your Flash-e-Vapor V4.5/V4.5L rebuildable atomizer.

The Flash-e-Vapor V4.5/V4.5L is a fiber evaporator where the user has to wind his own coils.

Both rebuildable atomizers come with a precision ground connecting piece made from borosilicate 3.3 glass. The scope of delivery also includes a connecting piece made from stainless steel and polycarbonate. The service kit with O-rings, screws and winding material makes the set complete.

The evaporator consists of stainless steel and is manufactured and assembled entirely in Germany. All parts will be cleaned prior to the delivery without leaving any residues. The development of the Flash-e-Vapor focused on the functionality and the handling. Its design is characterised by functional gripping aids such as knurls and grooves. The tank is filled without the help of tools and without special vials or needles. Since the design of the Flash-e-Vapor allows it to create an unusually good flash, we recommend using e-liquids with a moderate nicotine content.

**IMPORTANT!**

Use only liquids (e-Liquids) that are intended exclusively for the use in e-cigarettes.

The Flash-e-Vapor V4.5/V4.5L is a rebuildable atomizer, which has been designed exclusively for the use with e-liquids.

Before use, it is necessary to wind a coil from suitable resistance wire (e.g. Kanthal A or NiCr heating wire as well as a suitable wick (Ortmann-Schnur, organic cotton (e.g. muji), silicate fiber) and to attach it according to the instruction manual (p.6).

For the liquid supply from the tank, you must attach two wicks from the included cotton cord and cut them according to the instruction manual (p.7).

Once a new coil has been attached, it is important to measure the resistance of the coil, which should be between 1.0 — 2.5 Ohm. For this purpose use a multimeter, a suitable battery mount with resistance measurement or an especially designed resistance meter from a specialist store for e-vaporizers.

Should you detect a short circuit, do not operate the evaporator under any circumstances. Short circuits may damage the battery mounts and/or batteries. Correct the coil in this case or create a new coil!

**IMPORTANT!**

Use only suitable battery mounts from specialist e-evaporator stores for your Flash-e-Vapor V4.5/V4.5L.

You should use only electronically controlled devices.

## Scope of delivery Flash-e-Vapor V4.5/V4.5L

1x socket

1x evaporation chamber (airscrew 1.2 mm mounted)

1x mounted tank with borosilicate 3.3 glass (precision ground)

1x connecting piece polycarbonate (not suitable for liquids containing menthol and triacetin)

1x connecting piece stainless steel

2x airscrews (each 1x 1.4 mm, 2.1 mm)

1x original drip tip

1x accessories (0.5 m Ortmann fiber, 0.5 m 0.32 mm Kanthal A wire , 0.25 m cotton wick, 1x needle)

1x screw-in tool for air duct (1 cent)

### 1x Service Kit V4.5-V4.5L

#### Content:

3x O-ring 18x1 chamber, socket

2x O-ring 19x1.5 tank parts

1x O-ring 10.5x1 air duct top

2x O-ring 6x1 air duct bottom, drip tip

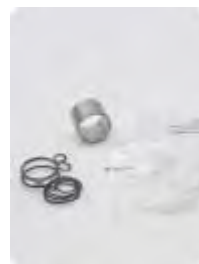
2x screws M2x3 heating wire fastener

**Unpack with care!**

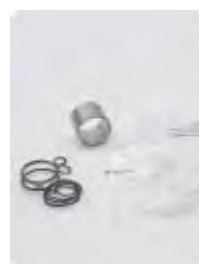
**There are small parts in the packaging!**



### V4.5



### V4.5L



## **Technical data V4.5/V4.5L**

Diameter:	23mm
Length (without drip tip):	60mm / 76mm
Weight (empty):	95g / 100g
Capacity:	approx. 6ml / 9ml
elec. threaded connection:	510 (adjustable)
Material:	Stainless steel
	Borosilicate 3.3 glass
	POM (Polyoxymethylen)
	PC (Polycarbonate)
	PEEK (Polyetheretherketone)

## **Cleaning - Flash-e-Vapor V4.5/V4.5L**

The tank parts and the evaporation chamber of your Flash-e-Vapor V4.5/V4.5L can be cleaned in an ultrasound bath.

The socket is tightly screwed in place but should not be put into the ultrasound bath in order to retain its tightness.

It is usually sufficient to clean the parts of the Flash-e-Vapor V4.5/V4.5L under warm running water using a brush (e.g. toothbrush) and some detergent.

Afterwards, rinse well under running water and dry all parts well.

In order to make the assembly easier and to increase the life of the O-rings, we would recommend moistening them with a little bit of liquid.

## Creating and attaching a coil (example)



**Picture 1:**

Coil up 6 windings with 0.32 Kanthal A wire using a winding tool with a 2.5mm diameter.



**Picture 2:**

Place the wire as shown underneath the two pole screws. Then carefully tighten them and remove the winding tool.



**Picture 3:**

Use a wire cutter or any other suitable tool to cut the projecting wire ends flush with the screw heads.



**Picture 4:**

**Note:** The gap between the upper edge of the coil and the bottom of the socket may not exceed 8.5mm as it would otherwise come into contact with the chamber bottom, which might result in a short circuit.



**Picture 5:**

Use a wire loop to pull a double Ortmann cord through the coil.



**Picture 6:**

Now cut the Ortmann cord flush with the outer edge of the socket bottom and moisten well with liquid. In order to absorb any excessive liquid from the socket bottom, we recommend placing one strand of the cord on the socket bottom to act as a wick.

**The mentioned materials and wire thicknesses are only examples; other heating wires, different numbers of windings as well as larger/smaller diameters are also possible.**

### **Caution!**

**The coils get very hot during the operation!  
Risk of burns when the coil is exposed!!**

## **Cutting and inserting wicks (cotton cord)**



Wind the socket of your Flash-e-Vapor V4.5/V4.5L.  
Cut two wicks of approx 10mm from the included cotton cord.



Attach the evaporator chamber to the socket.  
Make sure that the guide pin of the socket is inserted into the groove of the evaporator chamber. Now insert the two wicks into the wick holes of the evaporator chamber and slightly press down until they rest on the wick.



Now cut the projecting part of your wicks flush with the evaporator chamber using scissors or a wire cutter. Moisten the wicks with a little bit of liquid to ensure the immediate functioning of the wicks. Screw the socket with the evaporator chamber to the filled tank.

## Filling e-liquid



For the filling of the tank, the tank has to be turned upside down.

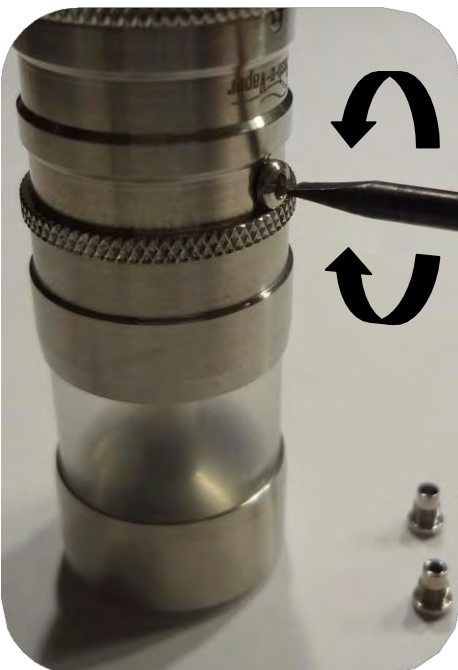
Maximum quantities for an empty tank:

- Flash-e-Vapor V4.5: 6 ml

- Flash-e-Vapor V4.5L: 9 ml

Make sure that the liquid is not above the upper edge of the arched / circular recesses in the tank bottom cap. Now unscrew the tank while it is upside down.

## Airscrews—draft resistance



By screwing in air screws of different sizes, the draft resistance or the air volume will be adjusted individually. The scope of delivery includes the following air screws:

Bore 1.2mm - strong draft resistance

Bore 1.4mm - medium draft resistance

Bore 2.1mm - light draft resistance

Our online-shop also sells air screws with the bores 1.6mm and 1.8mm.



## Changing the connecting pieces



In order to change the connecting piece, unscrew the air duct from the tank top cap using a 1 cent coin.



Remove the tank bottom cap together with the air duct. Now remove the connecting piece from the tank to cap.



Insert the new connecting piece part into the tank to the top cap, attach the tank bottom cap together with the air duct and fasten.

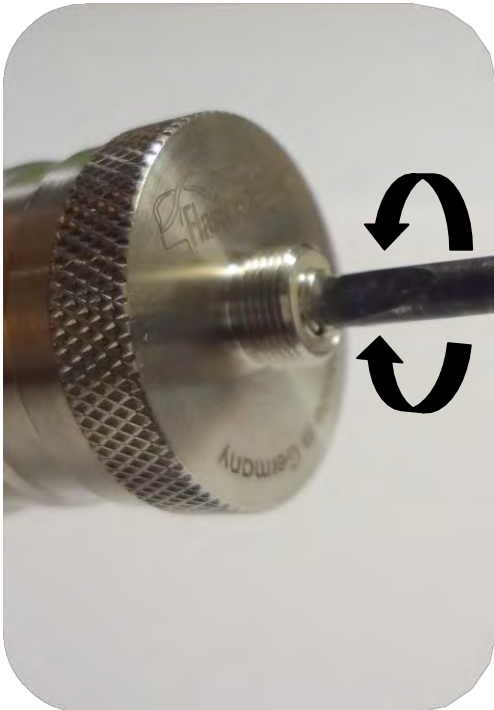
Make sure that the connecting piece is introduced into the grooves of the top or bottom cap.



In the delivery state, the tank is completely assembled with a connecting piece made from borosilicate 3.3 glass. Optionally, you can install the included connecting pieces made from stainless steel or polycarbonate.



## Adjusting the plus pole



Some battery mounts may require you to adjust the plus pole to fit the evaporator connection.

Use a suitable screwdriver to unscrew or screw in the plus pole screw in the 510 connection with a maximum of 1-2 rotations.

### **IMPORTANT!**

During the operation of temperature-controlled Mods, the adjustable plus pole must be completely screwed into the 510 connection.

Otherwise, it might lead to a malfunction.

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Owner S. Schittko

[www.flash-e-vapor.de](http://www.flash-e-vapor.de)