



VAPORESSO™
Beyond the ordinary

VAPING 101

What is vaping, and how
to get started?



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Introduction

Vaping has evolved into more than a fad over the last five years and has become an accepted cross-cultural custom, so naturally many men and women out there who have only “dipped their toes” into what vaping requires are now actively looking for the information needed to consider themselves consciously informed. In this guide, Vaporesso aim to provide all the information needed to successfully address any possible concern or questions about novice vaping.

In this eBook we'll introduce:

- » **What vaping is**
- » **What the different parts of vapes are, and their purpose: Mods, tanks, atomizers, batteries**
- » **What is E-liquid and how to choose it**
- » **How to vape correctly**

Ready to enjoy vaping? Let's get started!



1. What is “vaping”?



Quite simply, vaping is the act of vaporizing, by means of an atomizer cell or an exposed heat-conductive coil, some form of viscous and often flavored liquid referred to as E-liquid or E-juice for the purpose of inhalation.

Vaping is perhaps best known as a route by which smokers kick their habit, preferring to vape E-liquid with added nicotine than to smoke cigarettes. However more recently it has become a fun activity with a cult following beloved by all ages, with many vaping competitions cropping up, and strong links to other modern and edgy styles and activities.

The process itself is characterized by different steps and only carried out through a specific device, a vape, with precise requirements which can be customized to enhance and personalize the user's experience. The customization is not only limited to the type of liquid being used, so its flavor, viscosity, and nicotine content, but also it is extensively inclusive of the hardware components by dictating their power output, portability, and functions.

Essentially every vape has a different set of capabilities. Some use higher heat to create more vapour, allowing users to create large clouds. Some are small, lower-powered, and don't create too much vapour, leading to a more subtle vaping experience.

Novice vapers tend to prefer AIO (all-in-one) vapes, which perhaps look something like a cigar tube, or at least a starter vape kit which includes the mod, tank, battery, and atomizer. As vapers become more advanced, they may choose to mix and match components with different capabilities (for instance, adding a larger tank, or more powerful mod with an array of settings), or even build their own atomizers for a truly bespoke vape. But most beginners prefer a vape that they can fill with E-liquid, press a button to vape, and then just go.





2. What's a vape mod?



A mod is the term by which a vaper describes the vaping “device” as a whole but, more specifically, its electronic / battery component.

Vape mods are the ‘heart’ of your vape - the main ‘body’ of the vape to which a tank and its atomizer are attached. Typically when vaping, you hold the mod in your hand and push a button to vape. In the case of an all-in-one vape the mod, tanks, and battery are all included in one body, but the more famous vapes today take the form of a mod, with tank and other components branching out from it.

Mods can be very different in shape, size, weight, and style but what distinguishes them from each other the most are a few details that greatly impact their functionality. Some mods, for instance, are electronic, most in fact, which means that the power is delivered to the atomizer through an input generated by a circuit. The advantages of having an electronic mod include built in safety features, variable functions and modes it commonly provides, and a display (generally) to keep track of your battery life and to help you modify the device's functionality. Other advantages may be the higher "portability" coefficient, due to the fact that the battery, whether it is built in or not, can generally be recharged through a common micro-usb slot and the fact that the device can be powered on or off on command to avoid unintended discharges. A mod can also be Mechanical or Hybrid which means the output is a direct result of the battery's power in relation to the atomizer/coil, unaltered, and this is achieved by having the battery connect to the atomizer/coil either through a connective pin (Mechanical) or directly by having the "deck," where your coil is positioned, directly built onto it (Hybrid).



A photograph of four Tarot 2007C vape batteries arranged in a row, slightly overlapping. The batteries are rectangular with a textured front face and a smooth top. The first two are silver, and the last two are black. The background is a blurred desk with a white object and a pen.

3. Choosing vape batteries

How do we power our vapes?

When it comes to batteries, most [vape mods](#) will come with either a built-in lithium rechargeable battery or with an empty slot in which you, the user, will have to correctly position the rechargeable cell lithium-ion battery/batteries. All batteries purchased for the purposes of vaping are chosen primarily (not solely) by two characteristics: size, and mAh (milliamperes). The first one is always decided in relation to the mod's user manual, or more simply by the size of the slot itself, most commonly it is a **medium sized 18650 battery**. The second, mAh, is more complicated to get "just right" but it is also a much more flexible requirement stretching for a single 18650 battery between mAh1500 and over mAh3000. The mAh will be the deciding factor for how long your battery will last, without necessarily going into too much detail, so a higher mAh is indicative of a longer lasting cell, however the trade off for a high mAh cell is a low continuous current, which would make it less safe, hotter, and generally unfit for vaping. The compromise is to generally stick to a middle ground, possibly with an inclination towards a higher continuous current if you can manage a more demanding recharging routine, and to choose renowned brand names whenever possible when purchasing your 18650 battery.



A collection of various vape tank components, including a large cylindrical tank, a smaller sub-tank, a coil head, a base, and a small cap, are arranged on a textured surface. The background is a light gray with faint, large letters 'VAPOR PRESS' and a circular logo. The text '4. What's a vape tank?' is overlaid in a bold, black font.

4. What's a vape tank?

[Vape tanks](#) hold your E-liquid and atomizer, so they're where the magic happens!

The word tank is used to describe the part of your vaping "set" dedicated to storing the juice, vaporizing it, and delivering it. A tank is therefore characterized across the spectrum primarily by its capacity and its distinguishing qualities like the atomizer/coil it uses, its ease of use, its airflow system, the comfort and style of its mouthpiece, and certainly its design and materials. A tank determines, as much as the mod, which output it should receive given that it is the part possessing the atomizer and therefore dictating what is required in terms of power from the mod in order to create the vapour that the user wants.

To choose a tank, the deciding factors are your personal taste (how much vapor you can or are willing to handle, for instance), and the intended mod that will complement the set. Beginner vapers usually prefer a lower powered mod and a fully inclusive tank which contains the vaporizer, however more advanced vapers will ideally choose a significantly powerful mod set up with an RTA ([rebuildable tank atomizers](#)) or an RDA ([rebuildable dripping atomizers](#)), which due to their nature are commonly able to handle more significant wattage, however these are generally preferred by experienced vapers.





5. Choosing vape atomizers

An atomizer is the heating element of your vape, where E-liquid wicked onto it is super-heated until it turns into vapour which is then inhaled.

The act of heating the liquid can either be simple, or complex depending on whether you're a novice or more experienced vaper. For the beginner you just need an atomizer which works when you push the vape button (or trigger), and this will generally be set by the manufacturer to offer a consistent vape. Vaping experts will change atomizers regularly, using different types of atomizer to provide differing amounts of vapour depending on what they're trying to achieve, for example, large clouds of vapour.

Atomizers dictate, as much as the mod, what wattage/output you will vape at, however their range is generally indicated explicitly on the package, manual, and the unit itself as point of reference. Different atomizers have different characteristics that determine their range and performance, for instance, the metal used to compose the heating coil, its resistance, and the type of wick. The metals used for the vaporizing process are most commonly Kanthal, Nickel, Stainless Steel, and Titanium; all of which have pros and cons that differentiate them. However their determining practical difference are their respective coefficient of resistance which is a deciding factor in the wattage range they can effectively handle. Generally Nickel, Titanium and Stainless Steel coils are preferably used with a temperature control mode selected on your electronic mod to cater for their particular resistance coefficients and avoid "burning them out" or to under-stimulate them with miscalculated raw wattage settings.





6. What's the best E-liquid for me?

E-liquid, or E-juice, is added to your vape and inhaled as vapour. Its flavour and make-up varies, some including nicotine, and some without.

E-liquid is the motive behind vaping and must be therefore selected carefully because a bad E-liquid could truly undermine what would otherwise be a pleasant vaping experience. Primarily the user, you, should determine how much nicotine are you looking to get from it, if at all. Many people venture into vaping for the sole purpose of quitting their smoking habit, and nicotine can be a significant incentive as a first step in quitting smoking. Once the level of nicotine is determined, the second most obvious selection is the taste, are you looking for a sober, traditional E-liquid aroma or are you perhaps one to venture down a more daring road, the choices are plenty, to say the least, from strawberry and cream to coffee, from sweet tobacco to breakfast cereal. Common Brands in the states, and the world, are products made in California, like Charlie's Chalk Dust, Cuttwood, Five Pawns, and so on, but many european E-liquids are also on the rise for vapers looking to stay local or to go overseas, according to their locations.



Other determining factors may be the VG to PG ratio, a little bit more technical, however, VG is commonly associated with more vapor production and a higher viscosity whereas PG is associated with a more intense taste delivery and a more fluid, water-like consistency of the liquid. Your liquid choice, more so than your hardware choice, is currently determined by your geographical location given the recent regulations put forward in Europe through the TPD and in the USA through the FDA, therefore please take the time to thoroughly look into it accordingly, plenty of original documents online as presented by these institutions can clearly explain it to beginner vapers.





7. How to vape?

Vaping is accomplished through a pretty simple process, and as such, the correct way to vape is just as simple, as long as these steps are properly followed: Have what you need, Set it up, "Fire" it up and enjoy. All you really need to set up your Vape are a tank with an atomizer, E-liquid, and a charged mod. All of these items can be selected separately from each other and do not always need to consist in a "kit," or "AIO vape," but rather together they'll make a "set-up." As we intend to speak on behalf of those who have recently joined the vaping world or have the intention of doing so, our instructions are structured in a way to benefit all new-comers.

To purchase an E-liquid, your best bet is to analyze the primary concern, nicotine content, and perhaps discuss it at your local vape shop to see what will prove most satisfactory according to your specific case, for the rest, choosing a liquid can be a fun "sensory" experience across a sea of aromas.



Choosing your mod, at this point, is a matter of taste. The average mod is fit to work with any average type tank due to their matching connective input, however, what you need to look out for at this stage is a model capable of satisfying the needs of your atomizer in terms of wattage output; other than that, choose a mod with a built-in battery or one which requires you to use your own 18650 batteries and conclude your set-up in style.

Fill up your tank according to the instructions specified on the manual, most commonly it will be a “top-fill” tank asking you to twist open the top lid and fill it from the slits you shall uncover, be careful not to pour the juice into the main central channel reserved for the vapour to flow through or that may result in leakage, hot liquid squirts, and potential clogging. Once you have done that be patient and don’t rush for your drag, let the liquid soak the atomizer for about 5 minutes to avoid any “dry-hits.”

In the meantime, in case your mod is capable of variable functions, go ahead and follow the instructions to get it ready for your vape. Once you are ready to go hit your vape trigger, hold it to heat up the atomizer, and take a drag! A drag can either be a Direct To Lung (DTL) or Mouth To Lung (MTL) according to your set-up. Generally a good way to tell whether you’re using MTL or DTL is the power of your mod and the size of your tank’s mouthpiece, an MTL set-up is generally characterized by a thinner mouthpiece with a tighter airflow and a less powerful mod, generating a smaller cloud. After your first drag feel free to regulate the mod accordingly: take a longer drag, regulate the wattage, or even change your liquid preferences.





8. Conclusion



If you want to learn about vaping, the key is to try it! Nobody is arguing that theory isn't enough, but the feel your mod will have, or the heat of your vapor, the taste of your juice, can only become a concrete reality after they have been directly experienced. It is important, however, to keep in mind that a wise vaper always begins with the basics; there's no need to rush through it.

The course is a pleasant one and the more obstacles you'll find, the more solutions you will collect. Ideally you should start off with a medium sized mod, possibly one requiring one 18650 lithium-ion battery, and one classic style tank, one requiring atomizer heads. Practice filling your juice and regulating your output settings accordingly. Once you become comfortable with the routine of recharging the mod, filling your tank, and changing your atomizers, if you feel the curiosity to take vaping up a notch the next level is just one step forward: purchase your first RDA or RTA and "get building your own atomizer;" remember, the sky's the limit, that's why we call them clouds.

About Vaporesso

Learn about our vapes, and components

At Vaporesso we're passionate about vaping culture and the energy that surrounds the vaping community. We work to bring our innovative technologies to customers new, and old that love vaping like we do.

The Vaporesso brand was created to bring safety, convenience, and accessibility to the e-cigarette industry in a way not yet seen. From a fundamental level, Vaporesso looks to leverage technological advances in research and development and expert manufacturing to make e-cigarette hardware safer, with improved heating elements, more convenient with leakless tanks, and more accessible, with mods that meet the needs of every kind of vaper, be they novices or experts. We imagine a world where our products change the lives of our end users, whether to quit smoking or for recreation, for our partners to bring these advances to their customers in markets around the globe.



Advanced Technology

At Vaporesso we guarantee not only our passion and dedication but also a highly advanced research and development team that consistently surpasses our customer's expectations; through our continuous customer-centric innovation we have achieved technology breakthroughs in e-cigarettes and own more than 300 key patents in fundamental technology and design models. Our R&D division is comprised of several hundred experienced engineers, with their industry experience averaging six years.

Craftmanship

We imbue our products with our passion for an unparalleled vaping experience, with meticulous attention to detail and finishing. Our consumer-driven design combined with a plethora of industry experience results in refreshing concepts and hardware we are proud of.

From brainstorm to blueprint, from the blueprint to testing and delivery to you, our ever-growing product portfolio is fed by curiosity, bravery, and passion.



Quality Manufacturing

On-going safety assurance is the top priority at Vaporesso. We continuously improve our manufacturing standards to ensure our **electronic cigarette products** meet quality and safety requirements and are in compliance with all laws and regulations. We work to achieve and exceed the best standards available by using only the best materials in our production produced at the highest manufacturing standards, honed since 2006 in our three production facilities.

