



Volatizer® VM3™

User's Manual

VOLATIZER
35 Main Street, Suite B236
Ventura, CA 93001
U.S.A.
1-800-485-7305
www.volatizer.com
www.vm3revolution.com

copyright©2008 Vapor Trails LLC

VOLATIZER® VM3™ USER'S MANUAL

Welcome to the VM3 Revolution™ and congratulations! You have just purchased the most compact and efficient vaporization device available. The VM3™'s patented, rapid-onset and smokeless nature, and its easy to use design, is revolutionizing the vaporization industry. Protected by U.S. and foreign patents, with additional patents pending, the Volatizer® VM3™ represents the cutting edge of vaporization. Developed after years of research, with its concealable mouthpiece, state of the art Lithium Ion Polymer battery [LiPB], temperature control unit [CPU], built-in safety features and ergonomic design, the VM3™ is the only hand held, pocket size, battery operated, rechargeable vaporizer on the market. No more burning. No more flasks or water filled containers. No more balloons. No more hoses. No more attached power cords. Whether your interest is in aromatherapy, medicinal herbs, essential oils or tobacco, the VM3™ represents phyto-inhalation at its best.

IDENTIFICATION OF FEATURES

Before using the VM3™ please familiarize yourself with its various controls and components (See Figures 1 & 2) as well as the accessories that came with the unit.

Each VM3™ comes with a custom lockable case, a recharging unit, extra ceramic heating chambers, and a cleaning kit.

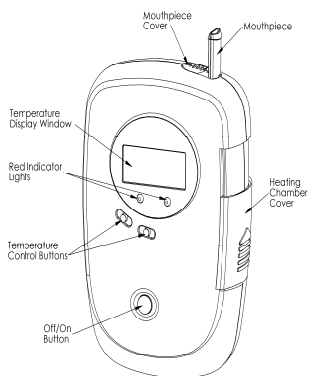


FIG. 1

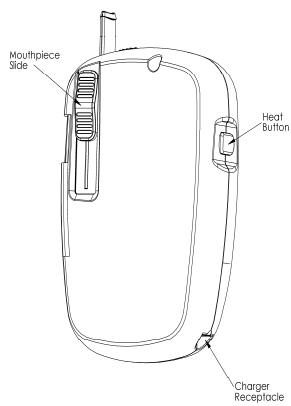


FIG. 2

QUICK START TIPS AND REMINDERS

1. Safety Feature: The VM3™ cannot be turned on unless the mouthpiece is fully extended. Retracting the mouthpiece and closing the mouthpiece cover automatically turns off the unit.
2. Safety Feature: The heating element cannot be energized and will not function if the heating chamber cover is open or not completely closed.
3. Do not drop, disassemble, misuse the VM3™ or expose to extreme heat, cold, liquids or moisture.
4. Depending upon the age, blend, cut and moisture content, tobacco vaporizes at 230°-250° C. Most herbs vaporize at 190°-250°. However, the moisture content, potency and essential ingredients of botanical constituents vary. No two constituents are the same. Therefore, you must experiment with different amounts and temperature settings. Always begin with a small amount and a lower temperature setting and work your way up. Do not exceed 250° C. After vaporization the tobacco or herb should be brownish and dry, not burnt. When crumbled between your fingers it should turn to dust.
5. Inhale slowly and deeply and hold your breath for a few seconds before exhaling. Keep the heat button depressed as you inhale. If the outside or ambient air is colder than normal, set the temperature 10° higher to compensate. If you exhale too quickly you will see a vapor that appears like smoke. You can easily tell the difference. Smoke lingers. Vapor almost immediately disappears.
6. Clean mouthpiece with an alcohol wipe between use.
7. Clean heating chamber and internal screens after use.

8. Retract mouthpiece and close mouthpiece cover after use to turn off unit and conserve the battery.
9. Only use constituents that you are familiar with and that are free from additives, contamination or pesticides.
10. Be extremely careful vaporizing tobacco. Nicotine is a poison. A nicotine overdose can be fatal.
11. Do not use the VM3™ or any other vaporizer if you are pregnant, ill or under a doctor's care.
12. Please review our websites at www.volatizer.com and www.vm3revolution.com to completely familiarize yourself with all Volatizer® products and the informational and educational materials and references there.

GENERAL USE AND OPERATION OF THE VM3™

To use the VM3, slide the mouthpiece cover into the open position. Extend the mouthpiece by pressing up on the mouthpiece slide. PLEASE NOTE: AS A SAFETY FEATURE THE VM3™ CANNOT BE TURNED ON UNLESS THE MOUTHPIECE IS EXTENDED AND THE HEATING CHAMBER COVER COMPLETELY CLOSED! To access the heating chamber, slide the heating chamber cover up. (See Fig.1) The ceramic heating chamber can then be inserted into the unit or if there is already a heating chamber in the unit it will then be partially ejected so it can be removed and reloaded. (See Fig. 3)



FIG. 3

The VM3™ comes with fifteen ceramic heating chambers. All fifteen have a mesh screen at the bottom and a removable mesh lid. The mesh screens and lids help ensure that loose tobacco or herbs do not touch the heating element or interfere with the various heating chamber components. The mesh lids help keep debris from clogging the upper internal screen and allow you to preload your tobacco or herb ahead of time and carry the extra heating chambers in the soft case which is included with the unit.

To load the VM3™ place a very small amount of tobacco or herb in the heating chamber. Unlike smoking where 80%-90% of the essential ingredients are burned off and never absorbed by the lungs, vaporization is very efficient. Therefore, begin with a small amount of constituent and work your way up to that amount which satisfies your personal needs. For most finely ground herbs, enough to cover the bottom of the vapor chamber and no higher than the interior ridge the mesh lid seats against. Less is better.

As indicated earlier, tobacco vaporizes at 230°-250°C, and most herbs vaporize at 190°-250°C. However, the moisture content, potency and essential ingredients of botanical constituents vary. No two constituents are the same. Therefore, you must experiment with different amounts and temperature settings. Always begin with a small amount and a lower temperature setting and work your way up. When it comes to vaporization less is better. Do not exceed 250°C since tobacco and most herbs will incinerate or burn at temperatures above 250°C which, of course, defeats the whole purpose of vaporization.

If using an essential oil, insert a small cotton ball in one of the vapor chambers and place no more than a drop of the oil on the cotton ball. Any common drugstore sterile surgical cotton will do. Simply tear off a small amount, roll it into a ball and insert it into one of the heating chambers. You do not need to use one of the mesh lids when vaporizing essential oils. Most essential oils are very strong; therefore, a micro-drop is usually all you need.

Aromatherapy is an ancient art. Likewise, the literally hundreds of essential oils and herbs available are very different as to their various qualities, the amount to be used, application, and the temperature of vaporization. Therefore, do not use any essential oils or herbs without professional advice and proper research. There are many references concerning the use and application of herbs and essential oils in our website, www.volatizer.com. Be sure and study these before using the VM3™ for this purpose.

After inserting the constituent into the heating chamber, following the above instructions, replace the heating chamber in its original position in the unit with your thumb while sliding the heating chamber cover down. (See Fig. 3) You can remove your thumb as the lower edge of the heating chamber cover passes the upper edge of the heating chamber. Continue sliding the cover down until it completely closes. The resistance you feel in sliding the heating chamber cover into the closed position is normal since in doing so an internal mechanism seats and seals the various heating chamber components.

To turn on the unit, extend the mouthpiece as described above and press the OFF/ON button. As soon as you turn on the unit, numbers will be displayed on the screen. The first number you see will be the actual or real time temperature in degrees Celsius (also called Centigrade) in the heating chamber. You can then set the temperature you want the heating chamber to reach by pressing the temperature increase or temperature decrease buttons located immediately below the display screen. The desired temperature setting will then be displayed on the screen. After about 10 seconds, the display will show the real time or actual temperature again; however, the CPU's memory will retain the preset temperature. To begin the vaporization process, depress and hold the HEAT activation button.

When the HEAT button is depressed, the right red indicator light will go on which indicates that the heating element is on. You can follow the temperature increase in the display window.

As soon as the heating chamber reaches the preset temperature, the heating element automatically shuts off and the red indicator light goes out. After the preset temperature is displayed and the red light goes out, anywhere from 20-60 seconds depending upon the preset temperature, slowly and deeply inhale the vapor through the mouthpiece just as you would if you were smoking a pipe or using a cigarette holder. Keep the heat button depressed as you inhale. As you inhale the outside or ambient air through the heating chamber, the internal sensors will

energize the heating element to maintain the desired temperature. You can see this process occur as you inhale during which time the red light will come back on. If the outside or ambient air is colder than normal, set the temperature 10° higher to compensate.

The number of inhalations per single dose of tobacco, herb or essential oil depends upon the nature of the constituent, the amount you use, the moisture content if an herb, and the user's lung capacity. For some materials or constituents, one or two inhalations may be all that is necessary to extract all of the essential ingredients. Other constituents, tobaccos for example, may require multiple inhalations before the essential ingredients are exhausted.

When it comes to botanicals, there are too many variables to generalize as to how many inhalations are possible. However, as the user you can tell when the constituent's ingredients have been exhausted. This is particularly true of the nicotine in tobacco. As you become more familiar with the device and the product you are using in it, you will be in a better position to anticipate the best number of inhalations. The same can also be said as to temperature settings.

To remove the constituent, wait a few moments until the ceramic heating chamber cools down. As indicated in these instructions, the heating chamber can reach a temperature as high as 280° C. Do not attempt to remove the heating chamber immediately after using the unit since it can get hot during the vaporization process. The amount of time you have to wait for the heating chamber

to cool down will depend upon the temperature you preset in the device. In most cases it will be only warm to the touch. Take your time. Better safe than sorry.

Once the ceramic heating chamber has cooled down and is no more than warm to the touch, you can remove it from the unit and remove the constituent which will appear dried out and brownish in color. If any of the constituent or debris does not shake out or cannot be gently blown out, it can be removed with the brush or tweezers from the cleaning kit supplied with every VM3™. If using an essential oil, replace the cotton insert.

When in use the VM3™ will be warm to the touch. This is normal. The VM3™ is powered by a high capacity, state of the art, Lithium Ion Polymer battery [LiPB]. It takes a considerable amount of power to energize the heating element and reach the temperature necessary to vaporize the essential ingredients of most herbs and tobacco. Therefore, always allow the VM3™ to cool down after each use or session. The VM3™ is designed for individual use. It should not be used in rapid succession. To avoid any problems in this regard, there is an additional internal safety mechanism that will shut off the power if the temperature of the VM3™ housing or case approaches too high a temperature.

Always remember most herbs and botanicals contain dozens if not hundreds of different compounds, each of which may vaporize at a different temperature. Therefore, only through practice and experimentation will you be able

to determine just what you are looking for in using the constituent in question.

As to the temperature in the heating chamber, there are sensors within the device that ensure that the desired temperature will be reached as well as not exceeded. For example, even though you are depressing the HEAT button, if the temperature in the heating chamber is higher than the setting temperature, the heating element will automatically shut down.

Likewise, as soon as the heating chamber temperature falls below the preset temperature, the heating element will switch back on as long as you are still depressing the HEAT button. When the heating element is off and not being energized, the right red indicator light will be off. When the heating element is energized or on, the light will be on.

So as to accommodate the widest variety of herbal or botanical products, and different mixtures and moisture contents of botanical products and botanical extracts, the VM3™ is engineered to function in a temperature range of from 10° C to 280° C. However, most botanicals, particularly tobacco and medicinal herbs, will char or burn at temperatures higher than 250° C.

Therefore, **unless you are a trained herbalist or chemist, do not set or use a temperature higher than 250° C** which is below the ignition point of the most commonly used botanicals and herbs.

Volatile oils such as camphor and mint vaporize at as low as 30°-60° C. The ingredients in many herbs vaporize at only 100°-190° C. The nicotine in tobacco, for example, vaporizes at about 230°-250° C. Likewise, the most common medicinal herbs vaporize at 190°-250° C.

However, as noted above, a lot depends upon the moisture content of the constituent, the type or blend of essential oil or botanical, and the personal preferences of the user.

Only through experimentation can the user determine what temperature is best for a particular constituent. For some herbs and botanicals, two inhalations will exhaust the essential ingredients while others will require more. After two or three inhalations you may be able to “push” the vaporization process further by increasing the temperature.

However, “pushing” the process often results a slightly different by-product and a different “taste” since different compounds vaporize at different temperatures. Experimentation and personal preference will determine what is best for each user.

In addition to the internal temperature sensors that automatically shut off the power to the heating element when the desired temperature is reached, there are other safety features to ensure that the VM3™ cannot be

accidentally turned on or activated. For example, the unit cannot be turned on unless the mouthpiece is extended. Likewise, the heating button will not work and the heating element cannot be energized unless the heating chamber cover is closed.

CHARGING AND RECHARGING THE UNIT

Before using the VM3™ you will need to charge the unit. To do so plug the charger into a standard 120 AC outlet and insert the plug from the adaptor into the charger receptacle or socket at the bottom of the VM3™. Since battery charging develops a certain amount of heat, always charge the unit on a flat, open surface, never in a confined space or drawer. When the unit is being charged, both red indicator lights under the display window will be lit to indicate that the charging transformer is connected and charging is in process.

When the battery is fully charged, a green light on the display screen will be illuminated. When the charger is removed, the red indicator lights will go off. To ensure that the unit is fully charged before its initial use, keep the charger plugged in overnight.

How long the charge lasts will depend upon temperature settings and use. The higher the temperature and the greater or more frequent the use, the shorter the period of time before the unit needs to be recharged. Most heavy tobacco “smokers” switching to vaporization will need to recharge the unit every 2-3 days. Occasional users will need to recharge every 4-5 days. The battery is

guaranteed to last six months; however, since it can be recharged several hundred times, it should go for a year or more before it needs to be replaced.

When one of the red indicator lights under the display begins to wink and/or the unit makes a beeping sound, it indicates the battery is low and needs to be recharged. At this time, the battery has only 5-7 more minutes of use. When the battery is fully discharged, the unit will turn itself off automatically. When this happens, any function, including the memory of the temperature setting, will disappear. After recharging the unit you can reset the desired temperature following the above instructions. Note: Even when the unit is turned off, it is always in a sleep mode which maintains the last preset temperature. Therefore, if the unit is not used for a week or so the battery will become discharged and will have to be recharged.

The charger can also be used to supply the power directly just as you might use a power supply directly to a cell phone or digital camera. However, we do not recommend leaving the charger plugged in longer than necessary to charge the battery since this may reduce the life of the battery.

FAQ's

When I press the OFF/ON power button, why is no information displayed on the screen?

Answer:

- a) The battery is low or discharged and needs to be recharged.
- b) The mouthpiece cover is closed and the mouthpiece not extended.
- c) The heating chamber cover is open or not completely closed.
- d) There is some malfunction in the circuitry. [Following the instructions below, return to Vapor Trails LLC for repair or replacement.]

When I press the power button, there are numbers shown on the display screen but when I press the heating button the right indicator light does not go on and the temperature shown on the display does not change. Why is that?

Answer:

Check the setting temperature. When the difference between the setting temperature and real temperature is less than 10° C, the heating element will not go on. Raise the temperature setting another 10°-20° then press the heating button. The red indicator light should then go on and the displayed temperature should begin to rise.

If I don't use the VM3™ for a week or so the battery goes dead. Why is that?

Answer:

The unit is never completely off. When not in use, it goes into a sleep mode to maintain the last preset temperature. Therefore, even when not in use the battery will discharge in a week or so and need to be recharged.

CARE, CLEANING, MAINTENANCE, REPAIRS

The VM3™ is a precision, hi-tech device with a powerful battery and some very sophisticated and delicate electronic circuitry, including a central processing unit [CPU]. Therefore, treat it and care for it like you would a cell phone, digital camera or computer.

Do not expose it to extreme heat, cold or moisture. Do not immerse it in water or any liquid and do not get it wet. Do not drop or handle the unit in a rough manner. Never force the operation of any of the removable or moving components.

Clean the heating chamber area and internal screens after use. You can clean any loose tobacco or herb out of the heating chamber area by gently shaking or blowing it out or using the tweezers or brush in the cleaning kit that comes with the unit. You can also use a Q-tip moistened with alcohol. You must be especially careful to keep the upper screen clean and free of debris. This can be accomplished with either the brush or the tweezers, or both. The tweezers in the cleaning kit are angled so you can reach the upper screen. If after using the brush and

tweezers there is any residue still remaining on the screen, hold a tiny cotton ball moistened with alcohol with the tips of the tweezers and clean the screen just as you would with a Q-tip. Be careful not to damage the screen.

Should the screens become so clogged or dirty that you cannot clean them, or any part of the mouthpiece-vapor collector components becomes obstructed, call Volatizer® at the toll free number to receive a return authorization number and instructions as to how and where to ship the unit so a trained technician can clean, repair or replace any needed part.

Do not under any circumstance attempt to disassemble or take apart the unit. Any attempt to do so may damage the internal components and will void the warranty.

Warranty

The VM3™ carries a 10 day 100% satisfaction money back guaranty, a 90 day warranty on parts and labor, and a six month warranty on the battery. If within the 10 day period you are not completely satisfied or if you need the unit repaired or a part replaced, call the toll free number for a return authorization number then return the complete and undamaged unit back for a complete refund or repair. We believe the VM3™ is the best vaporizer on the market and we want you to be completely satisfied.

CONDITIONS OF SALE-DISCLAIMER- CONDITIONS OF SALE

Thank you for your purchase of the VM3™. As indicated earlier, you have just purchased a one of a kind device that revolutionizes the concept and method of vaporization. Under no circumstances should the VM3™ be used with any illegal substance. The proper and legal purchase and use of this device by one 18 years old or older is a condition of sale. Therefore, by purchasing this device you are agreeing to the above terms and conditions, and to only use the VM3™ in a proper and lawful manner as intended by the manufacturer. Any illegal use of this device could subject the user to severe fines, penalties and/or imprisonment.

This device is only to be used by, in the presence of, or with the advice and assistance of someone knowledgeable in the fields of aromatherapy, naturopathy, phytotherapy, herbology, and natural, organic, or alternative healing. Likewise, only legal, safe, known, and identifiable and commercially developed and marketed essential oils, herbs, or botanicals should be used in this device.

This device is a sensitive piece of scientific equipment. It should be handled with care and never dropped or tapped on any hard surface as this could damage the delicate heating element and temperature control circuitry, and cause possible premature failure of the device. Evidence of this having occurred will void the warranty. As with any electrical device, extreme care must be taken around water or other fluids to avoid shorting or damage to its electrical components.

Keep this device and all aromatherapy, botanical and tobacco products out of the reach of children. Study carefully all of the instructions in this brochure before using the VM3™. Even commercially marketed botanicals, herbs and tobaccos can be dangerous. Tobacco, for example, contains nicotine, which is a poison.

Just as the Surgeon General has determined that smoking tobacco [or any other herb or botanical in our opinion] can be hazardous to your health and can cause a variety of other diseases or conditions, an overdose of nicotine can be fatal. Therefore, do not vaporize or volatilize any material without research, training or guidance. In this regard, a list of books, manuals, articles and research documents on aromatherapy, herbology, botanicals and phyto-inhalation can be found on our website, www.volatizer.com.

The information contained in this instructional brochure and cautionary instructions, and all of the documents and literature included with and accompanying the VM3™, were developed for informational purposes only. In no way is any of the information contained in these documents intended to be a medical or prescriptive guide or to be used for diagnosing or treating a health problem, condition or disease.

No essential oil, herb or botanical should take the place of any prescribed medication. Neither the manufacturer nor the seller of the VM3™ can be held responsible for the misuse of this device or the misuse of any essential oil,

herb or botanical. You, the purchaser and/or user of this device, are responsible for your own actions.

If pregnant, nursing or diagnosed with epilepsy, a heart condition, allergies or any other medical condition, seek the advice and assistance of a physician or trained health care professional before using the VM3™, or any other vaporizer for that matter, or any essential oil, herb or botanical.

If you believe or suspect that you have a medical problem or condition, do not use the VM3™, or any other vaporizer, and promptly contact your doctor or health care provider.

VOLATIZER
35 Main Street, Suite B236
Ventura, Ca 93001
U.S.A.
1-800-485-7305
www.volatizer.com
www.vm3revolution.com