

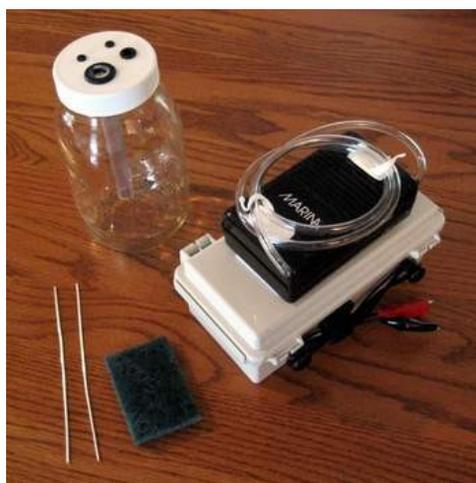
# Setting Up and Using Your 18V & 27V Battery-Powered Small-Particle Generator

*First of all, we THANK YOU for your purchase from ColloidalSilverHowTo.com!  
We hope we'll have the opportunity to serve you again in your quest for optimal health.*

*If you have any questions, please feel free to contact us at:  
robb.mcdaniel@gmail.com (the BEST way to reach us)  
870-480-9700*

Thank you for your purchase!

Below is a list of steps in using your 18V & 27V Battery-Powered Small-Particle Generator with our own Silva-Cap design. We have found that it is one of the simplest and least expensive battery-operated small-particle silver generators on the market. It is a means of producing quality colloidal silver without dependency on electricity to run your generator.



1. We recommend that you unpack the box, lay everything out on a table or countertop, and rinse or wash the following items: If you purchased a kit that included a quart jar, please hand wash this jar with soap and hot water, and rinse thoroughly. Your kit includes a battery-powered air pump and hose, so we suggest that you wipe the hose clean with a cloth or paper towel and warm water. (The vinyl tubing used with the air pump is NSF approved and safe immediately from the carton. We just want any residue accumulated in any process in getting the generator to you to be rinsed away.). Your generator includes the production jar with the Silva-Cap with PVC clear rigid tube installed. We suggest that you rinse this rigid PVC tube in warm water as well. (This tubing is also NSF approved and rated safe for contact with foods or beverages.) If you purchased silver rods with your generator, we suggest that you clean these rods first, by rinsing them in warm water, drying them, and then lightly cleaning them with the green abrasive pad included with your rods. Then, wipe the rods with a clean paper towel.
2. Next, find a location to make your colloidal silver. We recommend a place, usually the kitchen, away from direct sunlight.
3. Next, fill your clean jar with distilled water. It's okay to fill it all the way up to the bottom of the jar threads where the Silva-Cap screws on.
4. Now, while your Silva-Cap is off the jar, take the Cap and install your 12-gauge or 14-gauge silver rods from the underneath side of the cap. Install them one at a time through each of the smallest rubber supports in the cap. Push each rod through the rubber support until approximately 1/4" to 3/8" appears on top of the jar.



5. Install the Silva-Cap onto the jar. This might require carefully lowering the lid, with both rods and the rigid PVC air pump support tube dropping down into the distilled water. Then, carefully turn the jar while holding the lid until the lid is snugly tightened onto the jar.
6. Check to make sure that the silver rods are parallel to each other in the distilled water. The rubber supports will hold the silver rods in the ideal position, but check to see if you need to adjust them slightly from outside the cap.
7. Next, uncoil the small clear tubing from the battery-powered air pump. Then, push the end of the vinyl tube through the PVC air tube support in the Silva-Cap. Push the tubing from the air pump all the way through the rigid tube until approximately 1” of the small vinyl tubing is visible beyond the rigid tube inside the jar of distilled water. This will direct the air bubbles away from rigid tubing so that water does not bubble up through the rigid tubing creating splashing.
8. The 4th ring in the Silva-Cap is to allow air generated by the air pump to escape. So it is to be left open and free of obstruction.
9. On the generator box containing your 9V batteries, unwrap enough of the cord so that you can work easily and move your jar unencumbered. Then, take the two colored alligator clips and apply them to the ends of the silver rods visible above the surface of the Silva-Cap. It does not matter which colored clip attaches to which rod. Note: This is all the action needed to set the generator to work! A low voltage circuit is created between the positive and negative battery poles by the rods inside the distilled water. You have now begun the process of production.
10. But now we need to activate the air pump to create the agitation necessary to produce small-particle silver during production. This well-kept secret in the industry is accomplished by you by simply turning on the air pump agitator by activating the rocker switch at the top of the unit! That’s all it takes! You are now making small-particle silver without dependency on electricity!



#### Suggested production times:

For the 27V (3-battery) model, we suggest a production time of 3 hours.

For the 18V (2-battery) model, we suggest a production of approximately 4-1/2 hours.

#### After production:

1. Pull the vinyl air tubing from the jar through the rigid PVC tube in the Silva-Cap. Loop the tubing around and secure it in the tubing holders found on top of the air pump.
2. Unclip your alligator clips from the silver rods, and wind up your cord in a “figure 8” fashion around the knobs on the side of the generator box. Secure the wires with the method shipped to you with your box.  
NOTE: Typically, the ends of the alligator clips will never touch each other in normal storage conditions because of the plastic red and black clip guards that are manufactured on the alligator clips. But always be aware that the alligator clips must not touch each other. This is because when they touch, they are conducting current, and this will drain your 9V batteries.
3. Unscrew the Silva-Cap from the production jar, and pour your small-particle colloidal silver through a funnel lined with a conventional or unbleached natural coffee filter (your choice) into a clean storage jar with lid. Pouring through a filter will trap any silver oxide that is produced sometimes during production. Silver oxide (see below) is a harmless by-product and most will be trapped to be discarded while filtering prior to storing.

#### Changing the batteries on both units:

1. To change the 9V batteries in your generator box, remove the air pump from the top of the box. The air pump is attached with Velcro strips. It is secure during production times, but is easily removed by gently pulling the air pump unit from the generator box.

2. Flip the 2 box top taps away from the box. This will release the generator box lid. The box is designed to be water tight and secure when the lid is engaged (it contains a rubber seal in the lid), so gently pull the hinged lid open to break the seal, and lay the box open. There you can view the 9V batteries.
3. The 9V battery holders are attached inside the box with Velcro strips so that you may remove the battery and battery holders to change the batteries if required. However, if you use this method, please be gentle so that you do not damage the wiring that connects the batteries to one another, and the batteries to the alligator clips cord. The most preferable method to change the 9V batteries is to change them while they are secured in the box. To do this, just take a butter knife, placed between the terminals at the top of the battery. Twist the knife to move the battery away from the battery holder. Then take the knife and place it at the bottom of the battery inside the battery holder. Pry the battery up and out of the holder to discard.
4. To insert a new battery, simply drop the battery into the holder. Line the battery terminals with the battery holder terminals. Again, use a butter knife at the bottom of the new battery and the battery holder, gently twist to apply pressure, and with a thumb on the knife, push the battery into the battery holder to make a solid connection with the terminals.
5. To replace the batteries in the air pump, find the snap latch on the left long side of the air pump. Twist the snaps to open the lid. Lift each of the D batteries out of their terminal holders, and replace (making sure the batteries are in the correct orientation). Snap the lid shut again.
6. We recommend that you re-attach the air pump to the generator box for storage and during production by simply lining up the Velcro strips and pressing into place.



*You're on your way to producing top-quality small-particle colloidal silver from home!*

Below are some general comments and Frequently Answered Questions about our process:

*Things you can expect using this production system that might differ from your previous experiences:*

Because you are agitating the water you are creating high small-particle silver content in your colloidal silver. And you will not see the following occur during production:

—You will not see a cloud of silver ions coming off the positive rod (because the water is agitated)

—You will not see air bubbles coming off the positive rod until far into the production process

(approximately 2 hours or more)

—You will more than likely not see the negative rod turn black unless your production period goes for several hours or more

—You will not see an amber color. My experience tells me that the amber cloud is composed of ionic silver, and far less colloidal particles. Your colloidal silver is powerful, and usually crystal clear and will remain clear and very stable over time. Your colloidal silver will acquire a “color,” something close to what I call a “champagne” hue, and thus a much higher level of small-particle colloids if you extend your colloidal silver production time.

—As a result of the absence of some of the above up till now “normal” indications of colloidal silver production, some people do not feel that the generator is working properly. There’s no ion cloud, there’s no black rod, there’s no air bubbles, there’s no yellow to amber color. Please know that none of the absences of these things are inhibiting the quality of your colloidal silver. Quite to the contrary. Use a laser pointer in a darkened room shining horizontally across the solution. You will see a beam of light across your finished product. If you are using distilled water for your process, you have will have produced an extremely high-quality batch of small-particle colloidal silver. I urge you to review the processes, outside independent tests, and results of this process on the website: [www.ColloidalSilverHowTo.com](http://www.ColloidalSilverHowTo.com), and click onto the FAQs: Production page.

*What is the Parts Per Million (ppm) reading of the colloidal silver I am producing?*

If you've read my website information, you will notice that I am not a big fan of TDS meters because they are incapable of measuring true colloids. TDS meters are designed to measure "impurities" in tap water, and electrically charged ions only. You are generating true suspended colloids, and very little ionic silver.

Depending on the quality of the TDS meter used, after 4 to 5 hours of production, you might receive a TDS meter reading of as little as 4ppm from standard off-the-shelf TDS meters, to as high as 16ppm of relative silver ionic content from a PWT meter.

However, after reliable testing, with the 18-Volt Battery Generator (using two 9-volt batteries), your colloidal silver will contain:

- \* 2-1/2 hours production time: 4ppm
- \* 3 hours production time: 5ppm
- \* 3-1/2 hours production time: 6ppm
- \* 4 hours production time: 9ppm
- \* 4-1/2 hours production time: 12ppm (Commercial, retail level of many colloidal silver products)
- \* 5 hours production time: 17ppm

With the 27-Volt Battery Generator (using three 9-volt batteries), the ppm (parts per million) colloidal content you will generate during production:

- \* 2 hours production time: 20ppm (Commercial level or higher of many colloidal silver products)
- \* 2-1/2 hours production time: 29ppm
- \* 3 hours production time: 36ppm
- \* 3-1/2 hours production time: 48ppm
- \* 4 hours production time: 60ppm
- \* 4-1/2 hours production time: 66ppm
- \* 5 hours production time: 72ppm

*Remember that the key to these successes is agitating the water.*

You will soon find through use and experience that your small-particle colloidal solution is EXTREMELY effective in treatments, and EXTREMELY stable over time. (Even after 8 months, my colloidal silver has remained clear, and provides me with the same results as the day I made it). So please: **Do Not rely on a TDS meter to judge the quality or effectiveness of your colloidal silver.**

*I see "gray stuff" beginning to form on one of the rods. Should I be concerned?*

During the course of production, it is not unusual to begin to see a black coating forming on one of your silver rods, and if production occurs for longer periods, you will see gray-looking stuff forming on the negative rod as well. This is simply silver oxide, is harmless, and can be filtered away if it becomes free and floats in the water prior to colloidal silver production ending. It is a by-product of colloidal silver production, when running a very low current through distilled water. Know that the longer your production is in process, the more silver oxide will form. Again, it is a harmless bi-product of the process.

*Should I filter my colloidal silver solution after production?*

I always filter my colloidal silver after production. I simply use a clean kitchen funnel (plastic), put in a standard coffee filter, and pour my colloidal silver through the funnel and filter into a clean jar for storage. I use all glass jars when I produce and store my colloidal silver.

*How should I store my colloidal silver?*

I have always simply stored my colloidal silver in a glass jar. The lid is metal, but that hasn't seemed to have affected the product at all over the many years I have been making colloidal silver. I keep the jar of colloidal silver in a darkened location. Mine is stored in a kitchen cabinet. I suggest that you try to make sure that you keep the colloidal silver out of the sunlight as much as possible. UV rays will alter the appearance of your colloidal silver (by clouding the CS and/or changing its color). So: glass jar in a location away from sunlight.

*How much colloidal silver should I consume?*

I use colloidal silver as a nutritional supplement, to enhance the level of health in my body by better enabling my body to care for itself. Therefore, during the summer months, I hardly take colloidal silver at all because (fortunately) I and my household are generally quite healthy. During the fall, winter and spring months, I generally take 1 to 2 tablespoons of colloidal silver per day, especially when I become aware that there are colds and flu in the air. I then increase dosages and numbers of dosages throughout the day if I feel that I am possibly becoming ill.

Most often, though, I now take colloidal silver via a nasal mister and inhaler mister. These methods provide me with superior protection over time, and require that I make colloidal silver far less often. This also means that I am producing less colloidal silver than before, and therefore my silver rods are lasting even longer!

*Are there any negative side effects to consuming colloidal silver?*

Frankly, in the dosages described above, over the years I have consumed colloidal silver, I have encountered no ill effects. The "blue man" syndrome we've all been frightened into believing is a risk can only be experienced, from my reading and personal use, if you produce colloidal silver 100x stronger, and consume upwards of 1 quart to 1 gallon of this super-strong solution per day on long periods of weeks and months. There is also evidence that persons adding salt or saline to their water during production are generating extremely large amounts of silver chloride, which can be harmful in large doses, and is thought to create the "blue man" syndrome. So I don't recommend using salt or saline during production.

*Are there any other uses for colloidal silver?*

I use colloidal silver for many things. When I have sinus issues, and feel a sinus infection may be on its way, I put colloidal silver in a mister bottle (available on our site), and spray each nostril 3 to 6 times every few hours until the symptoms go away. I spray colloidal silver on scrapes, cuts and sunburns to eliminate inflammation and infection. The uses are endless!

*For additional answers to frequently asked questions,  
please be sure to return to our website:*

*[www.ColloidalSilverHowTo.com](http://www.ColloidalSilverHowTo.com)*

*We're always updating and adding information to the website.*

*Thank you again for purchasing from [ColloidalSilverHowTo.com](http://ColloidalSilverHowTo.com)!*

*I hope we hear from you again in the future!*

*If you have any questions, please feel free to contact us:*

*[robb.mcdaniel@gmail.com](mailto:robb.mcdaniel@gmail.com) (the BEST way to reach us)*

*870-480-9700*