



Viagrow® Clone Machine 24 parts list

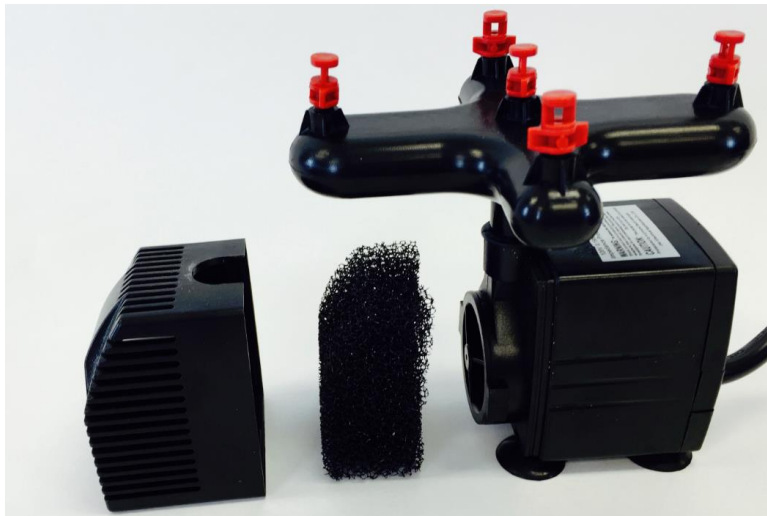
Part Number	Item	Quantity
VRCM-25	Clone Spray Misters (tested at factory)	7 (5 plus 2 extra)
VNC-25	Neoprene Clone Collars (9 blue, 8 green, 8 orange)	25 (24 plus 1 extra)
VCP160	Water Pump (UL listed)	1
V5MM	Viagrow® Clone Machine Manifold	1
Not Sold Separately	Viagrow® Clone Machine Lid	1
Not Sold Separately	Viagrow® Clone Machine Reservoir (bottom)	1



Viagrow® Clone Machine 24 Assembly Instructions

- 1) Remove all of the parts from the box and check that all pieces are accounted for.
- 2) We recommend you take the precautionary measure to rinse down the lid & reservoir prior to first use.
- 3) Remove the transparent protective film from the top of the Viagrow® Clone Machine Lid.
- 4) Gently ensure the preinstalled clone spray misters are secure and hand tight in the manifold. Do not overtighten the misters or you risk stripping the threads.
- 5) Take spray manifold with preinstalled spray misters and align the cylindrical column connector on the bottom of the manifold with the open hole on the top of the water pump.
- 6) Insert manifold column connector into the water pump and apply firm but gentle pressure until it is fully seated and can be inserted no further.

NOTE: water pump includes 1/2" and 3/8" connectors. These extra parts are not needed for attaching the manifold.



- 7) Take water pump/manifold assembly and place in bottom of the Viagrow® Clone Machine reservoir.
- 8) There is a rectangular mark in the bottom center of the reservoir indicating proper pump location. Looking down from above, align pump/manifold so the front end of the water pump (the end without the power cord) is squarely standing inside the pump installation marks.
- 9) Apply gentle pressure to the top of the water pump to engage the bottom mounted suction feet on the pump affixing the water pump in the correct location.
- 10) Run pump power cord to the outside of the clone machine making sure to seat the cord into the notch in the Viagrow® Clone Machine Reservoir.
- 11) Place Viagrow® Clone Machine Lid on top of reservoir (taking care to align the notch in the lid with the power cord and notch in the reservoir; apply gentle but firm pressure ensuring



the lid is fully seated against the reservoir and that the power cord is sandwiched in between the lid and bottom notches.

12) Place neoprene clone collars in recessed spaces on the top of the lid.

Viagrow® Clone Machine 24 Use Instructions

1) Once the Viagrow® Clone Machine is fully assembled remove the lid and neoprene clone collars.

2) Fill the Viagrow® Clone Machine Reservoir with water until the water level reaches the bottom of red clone misters (approximately 2.5 gallons). Do NOT allow the water to cover the mister heads or you will not get the proper mist size.

Note: Pump should be completely submerged at all times during operation!

3) Add 15 mil of the Clone Solution Concentrate of your choice per 2-2.5 gallons of water.

4) For ideal results, adjust pH level to 6.0. An acceptable level for the pH to range is from 5.8 –6.5.

5) For optimal results, the temperature of the water while taking clones should remain between 64°F - 72°F.

6) After taking a cutting from your donor (mother) plant dip base of stem (bottom 1"-2") in rooting compound gel of your choice.

7) Spread the Neoprene Clone Collar apart and slide the stem of your cutting into the center of the collar. Make sure not to rub off the gel from the stem. The bottom of your cutting should be covered in the rooting compound gel. Make sure that 1.5 – 2 inches of the stem protrude through the center of the cloning collar.

8) Place cloning collar with new cutting into position at the top of the lid, ensuring the cutting bottom is suspended inside of the Viagrow® Clone Machine.

9) Ensure that the lid of the Viagrow® Clone Machine is securely seated to prevent leakage.

10) The Viagrow® Clone Machine can be used with different light sources but we recommend you use 2 T5 two-foot ViaVolt® fluorescent lights held 12 to 18 inches over the top of your cuttings.

11) Plug in your lights and water pump.

NOTE: Use Caution when using electricity and water.

12) Now you can just relax and wait as the Viagrow® Clone Machine affords you the easiest cloning experience ever.



Cleaning Instructions

Once your cloning process has completed and your clones are planted out it is time to clean your Viagrow® Clone Machine. Cleaning the Viagrow® Clone Machine is an integral step in ensuring future success and disease free future cuttings.

- 1) Remove all of the neoprene clone collars and the pump/manifold assembly.
- 2) Empty all remaining water/clone solution from the Viagrow® Clone Machine Reservoir (bottom.)
- 3) Fill the reservoir to the top with 3 gallons of fresh water.
- 4) Add ¾ cup of unscented bleach (1/4 cup of bleach per gallon.)
NOTE: When working with bleach rubber gloves and eye protection are recommended
- 5) Remove manifold from pump and remove red misters from manifold.
- 6) Examine each mister for debris or material that is, or may clog them. You can use a small piece of wire (a bent paperclip) or a blast of compressed air to dislodge any debris.
- 7) Remove 1 cup of bleach/water from your Viagrow® Clone Machine Reservoir and soak misters in it for 30 minutes.
- 8) Take the Neoprene Clone Collars and place them in a five gallon bucket. Fill 5 gallon bucket with 4 gallons fresh water. Add one cup unscented bleach to the water and agitate water. Use a colander to help submerge the Neoprene Collars.
- 9) Remove filter housing from pump and rinse and squeeze repeatedly in the bucket of water and bleach until no sediment or debris remains. Re-assemble pump/filter.
- 10) Fill a 5 gallon bucket with 4 gallons of water. Add 1 cup unscented bleach to the water and agitate water. Re-attach manifold to pump and place pump/manifold assembly into bucket of water/bleach. With misters still removed from manifold, cycle the pump on and off submerged 100% under the water for a period of about 15 minutes. This will help sterilize the inside of the pump and manifold.
- 11) Wipe Viagrow® Clone Machine Lid inside and out with a towel soaked in a bleach water solution (1/4 cup bleach per gallon of water). Wipe outside of Viagrow® Clone Machine reservoir with same solution.
- 12) Empty the Viagrow® Clone Machine Reservoir of bleach and water solution and wipe down with non-abrasive scrubbing pad to remove any biofilm that may still be lingering on the interior walls of the reservoir. Then, wipe interior of reservoir with bleach water solution on clean cloth.
- 13) Empty the 5 gallon bucket of bleach and water holding the pump/manifold assembly. Fill the bucket with 3 gallons of clean water and cycle the pump on and off for another 15 minutes to ensure the bleach is removed from the pump/manifold.
- 14) Empty the Viagrow® Clone Machine Reservoir and rinse with clean water.



- 15) Rinse red misters with clean water and re-install into manifold taking care not to overtighten them.
- 16) Using a toothbrush or other small non-abrasive brush scrub cloning collars on all exterior surfaces as well as the interior "X" cut portion to remove any debris. Rinse the Neoprene Clone Collars with clean water ensuring no plant matter or bleach solution remains.
- 17) Re-Assemble system as per instructions.

Cloning Tips

- 1) If using razor blades to make cuttings rinse off oil from sharpening process with rubbing alcohol and then rinse in water before using them to cut plant material.
- 2) Do not use distilled water in clone machine as this may inhibit root development.
- 3) For ideal results, adjust pH level to 6.0. An acceptable level for the pH to range is from 5.8 –6.5.
- 4) For optimal results, the temperature of the water while taking clones should remain between 64°F - 72°F.

To purchase replacement parts for the Viagrow® Clone Machine please contact one of our online retailers:

Amazon

HomeDepot

Viagrow.com

Visit Viagrow.com and search VCLn24 for Viagrow Clone Machine.

Search VCLN24 on any of our online retailers for the Viagrow Clone Machine or search

VCP160M for replacement pump with manifold.

