



INSTALLATION INSTRUCTIONS

WARNING: NEVER ENTER A SEPTIC TANK. SEPTIC GASES ARE TOXIC AND CAN CAUSE ILLNESS OR DEATH. AVOID PROLONGED EXPOSURE TO THESE GASES.

UNPACKING THE SEPTIC GENIE

First, remove the Septic Genie from the tall box. It will be wrapped in plastic that must be removed before installation. Try and remove the Septic Genie in an area where there is no wind. There are light weight packing materials that may come out of the box as you remove the Septic Genie that will blow around. Check the Septic Genie for damage. Notify the company immediately if you find damage. You will find the bacteria pack and a large Septic Genie envelope either taped to the Septic Genie or in the box containing the Septic Genie. The large envelope contains important information and instructions. **Second**, open the smaller box and remove the air pump. Please dispose of the boxes and packing material in a responsible, environmentally friendly manner.

NOTE: Prior to the installation of the Septic Genie unit in the septic tank, Septic Genie strongly recommends that the septic tank be pumped and cleaned. As the homeowner / installer isn't as experienced in judging the amount of solids within the septic tank or can define the physical condition of the septic tank, pumping will make this lack of knowledge and experience of little concern. If the septic tank has been pumped within the past six months of installation of the Septic Genie, pumping should not be necessary. If you are in doubt, pump the septic tank as a precaution. **You can call or email Septic Genie for directions regarding any issues you might have concerning pumping of your septic tank.** If the septic tank is pumped, allow it to refill by using the septic system as before. When the liquid depth of the septic tank is greater than 38 inches, install the Septic Genie. If you prefer to install the Septic Genie immediately after pumping and cleaning of the septic tank, first install the Genie following the enclosed installation instructions, refill the septic tank with household water using a hose from a hose bib to the top of the Genie insert, add 15 pounds of granulated sugar and two cans of inexpensive canned dog food as starter food for the inoculated bacteria and start operating the Genie. Try to break up the contents of the dog food so it will disperse more evenly. Continue to use the septic system. As the septic tank refills, there will be a rich inoculum of bacteria from the sugar, the canned dog food and organic waste products from the residence when the effluent leaves the septic tank and enters the clogged disposal field.

PREPARING THE SITE

If you don't have an existing GFI protected outlet where you want to put the air pump, have a qualified electrician provide a surface mounted, GFI protected, exterior outlet within two feet or three feet of the site. You can plug the air pump cord into the GFI outlet. This electrical connection should only be done by a qualified electrician and all work and materials must be done according to local electrical codes. Do not plug in or energize the air pump at this time.

- 1) Install a riser over the inlet opening of a two chambered septic tank. **If you have a single chamber septic tank see below.** The opening will need a minimum of 12 inches of clear space for the Genie to be installed. Make certain you have an air tight lid that can be secured against unauthorized access. If preferred, the riser and Septic Genie can be installed in the outlet opening of the two chambered septic tank.
- 2) **Septic Genie recommends that an effluent filter be installed on the outlet pipe of a single chambered septic tank.** Then the Genie can be installed in either end of the single chambered septic tank. In a two chambered tank, the Genie unit can be installed in either compartment. **The new upgraded Septic Genie is most frequently installed in the inlet chamber.** A "Handyman" or septic contractor can assist in installing this riser if you feel unsure how to do the installation. See [Pictures 1 and 2](#). *Keep the lid on the riser as much as possible while working on the installation of the Septic Genie to limit exposure to septic gases.*

- 3) Dig a trench from the air pump to the riser, typically 10 to 12 inches deep. Drill a 15/16 inch hole in the riser for the PVC pipe to enter the inside of the riser. Install ½ inch Sch 40 PVC pipe as shown in [Pictures 3 and 4](#) as an air supply line. Do not allow dirt or debris to enter the PVC pipe. Use “Wet / Dry” (blue) PVC glue. This will allow you to easily check that all connections were glued. **If you live in an areas where there are freezing winter temperatures or the soil becomes frozen, you need to install weatherproof foam insulation (that is typically used on exposed water pipes) around the PVC air supply line where it becomes subject to the outside weather and also in the trench between the air pump and the riser. Bury the insulation with the pipe.** This is to make sure the temperature of air supply that is heated by the air pump isn’t reduced to the ambient temperature of the outside air or of the frozen ground. Freezing cold air will cause the special bacteria in the Septic Genie to go into a condition much like suspended animation. They are alive but not active and produce little or now treatment or population growth. Insulate from the first point of exposure to the outside weather and in the trench. Bury the insulated pipe in the same depth of trench described above. If other forms of insulation are used in your area, then you can make the choice which pipe insulation to use. *Keep the lid on the riser as much as possible to avoid contact with septic gases.*

INSTALLING THE AIR PUMP

- 1) If there isn’t a convenient GFI protected exterior electrical outlet, hire a licensed electrical contractor to expand an interior outlet circuit form the inside common wall where you want to place the air pump. In our area of the country, we can drill though the back of the inside outlet box to the exterior of the wall using a minimum 14/2 Romex wire with ground through the wall into a surface mounted exterior outlet box. The electrical contractor would then install a 15 amp GFI outlet. He would wire this expanded electrical line to the interior outlet, thus energizing the exterior GFI. As codes differ around the country, the electrical contractor will know how to accomplish this within the code requirements of your local area should he take this approach.
- 2) Place the air pump on a concrete stepping stone near enough to the exterior GFI protected outlet to allow the air pump cord to be plugged in. Check that no flooding of the air pump from ground flow water during periods of rain can occur.
- 3) Install the ½ inch PVC pipe end of the clear plastic connector assembly that comes with the Septic Genie unit to the ½ inch PVC, Schedule 40 air line to the riser and Genie unit. Attach the clear plastic tubing to the outlet port of the air pump and clamp tight. You can shorten the clear plastic tubing to fit your installation. You can install the air pump under a deck, in a utility shed, equipment room, basement or garage. See [Pictures 16, 17, 18](#)
- 4) You can get a plastic tub or create other waterproof coverings to go over the air pump. The air pump is UL approved for exterior installations but we recommend that you put some cover over the air pump for added protection during wet or freezing weather and to keep the curious from finding the air pump of interest. Make sure to provide a minimum of six one inch diameter or larger holes for venting to keep heat build up under control. The length of the PVC air supply pipe is not of concern. There are installations with 300 lin/ft of ½ inch PVC pipe between the air pump and the riser.
- 5) If you upgraded your air pump to one with a built in low pressure alarm, check the switch to see if it is in the correct position. The switch is on the bottom right end of the alarm (when it is facing you) and should be in the middle position. The little switch has three positions; right, middle and left. The middle position is the “run” or “on” position. **In the event of a problem, disconnect the electrical supply (unplug cord) and contact Septic Genie immediately.**

INSTALLING THE SEPTIC GENIE

- 1) Most septic tanks are buried within 18 inches of the top of the soil. Should yours be deeper, you may need to adjust upward the recommended lengths for the pipe. You may then also need an extension for the rope attached to the Septic Genie. This rope is for installation and removal of the Septic Genie.
- 2) Glue a 4 ft piece of ½ inch PVC Sch 40 pipe to the coupling on the inside of the Septic Genie as shown in [Pictures 5 and 6](#). This is a critical glue connection and should be done with care.
- 3) Holding onto the rope to carry the weight of the Septic Genie, lower it into the septic tank with the Septic Genie facing toward the center of the riser as shown in [Picture 7](#). Allow the Septic Genie to settle to the bottom of the septic tank with the body of the Septic Genie facing into the center of the riser area. “Bounce” the Septic Genie up and down a few times to push away any sludge that may be on the bottom and under the Septic Genie. Settle the Septic Genie so that the vertical pipe remains basically where you want it. Moving the Septic Genie should be done with the weight of the Septic Genie being carried by the rope and the vertical pipe can help guide it in to the correct position.

- 4) Cut the horizontal PVC pipe coming through the riser as close to the riser wall as is practical. Cut the vertical PVC pipe coming out of the Septic Genie to the correct length to allow a PVC 90 degree elbow to be installed connecting the horizontal and vertical pipes as shown in [Pictures 8 and 9](#). Tie off the rope with a Zip Tie to the horizontal pipe as shown in [Pictures 9 and 10](#).
- 5) Now take the bacteria pack and glue a five or six foot piece of ½ inch PVC pipe to the coupling or elbow end as shown in [Pictures 11 & 12 or 13A](#). If the liquid depth over the Septic Genie is less than six inches, use the installation shown in [Picture 13A](#).
- 6) Clip the “C” clip around the vertical pipe coming from the Septic Genie as shown in [Pictures 13 or 13A](#). Lower the bacteria pack to rest on the top of the Septic Genie.
- 7) Cut the PVC pipe from the bacteria pack so that it will not stick up out of the riser and glue a PVC Tee onto the end. Use 12 inch Zip Tie through PVC Tee and around vertical air pipe to keep Bacteria Stick vertical. See [Picture 14](#).
- 8) Plug in the cord from the basin or energize the electrical service so that the air pump starts. Inspect the surface of the septic tank to see if there is active agitation of the effluent similar to [Picture 15](#). The installation is complete.

AFTER START UP OF THE SEPTIC GENIE THERE WILL BE A NOTICABLE INCREASE IN ODORS. THIS IS NORMAL AND EXPECTED. THESE ODORS WILL TYPICALLY ABATE WITHIN TWENTY FOUR TO FORTY EIGHT HOURS. THEY WILL NOT RETURN AS LONG AS THE SEPTIC GENIE IS PROPERLY OPERATED, MAINTAINED WITH NO STRESS EVENTS OR TOXIC SHOCK TO THE BACTERIA COMMUNITY. SEE HOMEOWNER’S GUIDELINES TO OPERATING A SEPTIC GENIE.

IF YOU HAVE QUESTIONS OR CONCERNS ABOUT THE INSTALLATION OR ANY QUESTIONS ABOUT THE OPERATION OF YOUR SEPTIC GENIE AFTER THE INSTALLATION, PLEASE CONTACT THE FOLLOWING:

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