



PROECO
PRODUCTS

Installation Instructions

Pump Vaults



ProEco Products Pump Vault Installation Guide:

1. Choose Pump Vault Location
 - a. The Pump Vault should be located at the bottom of a streambed where a waterfall or stream ends. This will be the ending point for your stream/waterfall and is where your pump will be located for recirculation of the water.
2. Excavation of Basin Area
 - a. Your Pump Vault should be used within a basin area along with another water storage system, like ProEco Pro Cube. Refer to the Layout Diagrams on the following page for reference.
 - b. Excavate your basin area per your chosen layout from the Layout Diagram.
3. Underlayment & Rubber Liner
 - a. Once you've completed the excavation you can lay the protective Underliner in the basin. Spread the Underliner evenly.
 - b. Next, lay Rubber Liner in the basin on top of the protective Underliner.
 - c. After the Underliner and Liner are installed you can add another layer of Underliner on top of the liner for additional puncture resistance.
4. Position Pump Vault
 - a. Position the Pump Vault within the basin in the desired position. It is recommended that you position the Pump Vault so that it can be easily accessed for future maintenance of your pump.
5. Fill Basin Area
 - a. Fill the basin area around the Pump Vault with ProEco Pro Cubes. These will allow you to maximize the volume of water kept in the basin and help to support the weight of the rockwork above. Finish off the tops of the ProEco Pro Cubes with decorative gravel large enough that it won't fall through the openings of the ProEco Pro Cubes.
6. Add in Submersible Pump
 - a. The PV-1416 Pump Vault can handle pumps with volumes up to 3200gph (gallons per hour).
 - b. The PV-1822 Pump Vault can handle pumps with volumes up to 8000gph.
 - c. Plumb an appropriately sized pump into the Pump Vault and connect to flex pipe running up to Pump Vault.
7. Set a flat rock over the lid of the Pump Vault as an identifier so you know where it is located.
8. Optional Automatic Water Fill Kit
 - a. Depending on a number of factors up to 1" of evaporation is possible per day. You can either fill the basin from a garden hose or install an automatic water fill kit. This kit can be connected to any garden hose connection or irrigation line to automatically fill any evaporated water. See your ProEco Products dealer for additional info.