



Installation Manual

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Call: 844-218-1631



DIY Splash Pads Committment

We are extremely excited for the opportunity to help bring your landscape to life! DIY Splash Pads are becoming the more popular choice when choosing between a swimming pool and a splash pad. Whether it be a simming pool or a splash pad, we understand how much fun playing in water can be. However, we want to take safety to the next level and that's why we provide splash pads instead of swimming pools, offering the same great enjoyment with less worry about your kids and water.

DIY Splash Pads will provide our customers with the most innovative products and processes that will exceed any industry standard. Each of our splash pad kits will give you the piece of mind that you are looking for when investing in a back yard spray park. All of our equipment that isn't a 3rd party product will carry a 2 year warranty from the purchase date.

Our product, process and promise is to provide you with the best experience possible. We stand by our work and our quality assurance so you can be sure you are getting the best product available and feel confident in your investment. You will not be disappointed with your purchase.

Materials

Your splash pad kit will come pre-built, ready to install. Every kit will be color coded as far as piping, and the majority of piping will be sized according to your preference. To make it a bit easier, here is a list of items that you will need outside of your kit purchase.

- ★ Concrete (volume will vary by size of pad)
- ★ Concrete surfacing (optional)
- ★ Water source to your tank
- ★ Schedule 40 PVC pipe - 3/4" or 1/2" (measure how much you'll need)
- ★ Schedule 40 PVC fittings - same as piping (elbows, tees, etc.)
- ★ PVC Primer and Glue
- ★ PVC 2" for drain system
- ★ Irrigation box to cover tank (optional)

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Precautions

BEWARE - Risk of Electrical Shock

Your DIY equipment will need to be supplied with 110v, 20 amp service. The service must have a GFCI (ground fault circuit interrupter) outlet where your equipment will be plugged into. If you are installing this yourself, install at your own risk. We recommend a licensed electrician to install a GFCI if needed. Every electrical component must have a minimum of 10 feet between the equipment and the splash pad play area.

We recommend children being watched to ensure that the drain never becomes plugged while in play. Your pad area must be designed to have the water drained. 1/4" drop per foot towards the drain area. Larger play areas may require extra drains.

Water Chemistry - Be sure to check the chemistry before each use or at minimum, once a week. Chlorine levels need to be between 3-5 ppm. Be sure to never mix chlorine and bromine.

Preparation For The Site

Prior to excavation, we recommend calling a “call before you dig” company to ensure that no utility lines are near your splash pad site. Buried lines can cause unexpected harm and cost so please be sure to make the call before you dig. Your concrete will need to be a minimum of 4” thick. Plan accordingly for the depth that is needed for all parts and processes for installing your splash pad. Areas around the splash pad need to be graded so the splash pad will drain correctly and if any water makes it off the splash pad, that it will drain away from the play area.

To make quick work of your installation, we recommend renting machinery to make your job easier. Should you decide to forgo any machinery, a couple of shovels, some friends and some well fed tummies will make the work go fast as well.

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Laws, Permits and Inspections

Depending on where you live and the location of your splash pad, you may need to purchase permits for your splash pad. Oftentimes, this is not required for residential applications but we always want you to be aware of it so you can ask about it. In certain locations across the USA, they may ask for what the anticipated end result will look like. If that is the case, contact us and we will send you a picture of a finished splash pad along with a 3D model of what it can/will look like.

Please check with your city, county or state to see if any permits or inspections are required. In most cases you should be ok, but if it's closer to a commercial pad or location, you will want to follow all laws in regards to building a commercial splash pad. If you need a company for commercial installations, we can highly recommend one to you.

Splash Pad Kit

Your kit will include the following items: Holding tank, float valve, check valve, pump, filter, chlorinator, 3 way valve, manifold, control box, drain and nozzles.



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Grading and Plumbing

Now that you have called for utility marking and flagging and have dug out the area of your splash pad, you will want to prep it for plumbing and pouring. You will want to dig a minimum of 12" deep. Set your forms in the shape of your pad layout. Dig a hole in the center of your pad layout for the drain. Remember you will need to have 1/4" drop per foot so measure from the edge of the pad area to the center and dig your drain to be low enough for the correct grade for drainage. Next, you will lay 2" of inch-minus rock, layout your plumbing, glue it accordingly, and then lay 4"-6" of sand to cover the piping. All concrete will need to be reinforced with #3 rebar every 36" on center. All plumbing of water lines will need to be a minimum of 6" under the grade level so take that into account.

Nozzle Installation

You will also need to match your nozzle heads to the anticipated concrete grade. The light colored o-ring supplied with the nozzle, will help maintain the nozzle placement during the concrete pour. The best way to set your nozzle height, is take a string from one side of the form to the other. Pin the string on the drain with a heavy object which will mimic your pad slope. Set your nozzles to that string height. You may have to move your string from side to side depending on the placement of your nozzle layout.

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Tank and Drain

When digging the hole to set your holding tank, there are a few items that you will want to take into consideration.

- ★ The distance of the tank to the equipment will affect the ability of the pump to operate correctly, you will want to make sure the tank is within 20-30 feet of the equipment.
- ★ The tank will also need to be low enough for a 1/4" drop per foot for drainage from the splash pad.
- ★ Your drain line will need to be a 4" line from the drain from the pad to the tank.
- ★ The tank is approximately 46" in height so your hole will need to be a minimum of 46" deep.

- ★ The drain will be the lowest point of your splash pad.
- ★ Be sure to layout your drain plumbing before gluing.
- ★ If you opt in for a valve cover box, you will want to make sure it will cover the top of the tank.

Testing and Pouring

Prior to pouring your splash pad concrete, you will want to do a pressure test to ensure that all your pipes are tight and that your glue has held up during the gluing process. The way to pressure test the pipe is to cap everything you can and pressurize it with a compressor up to but not exceed 25psi with a gauge that will give you a read out. This must maintain 25psi for 2-4 hours. If it doesn't maintain the correct amount of psi, you'll need to locate and fix your leak in the plumbing before you pour. If it does, move forward and pour your concrete while the pipes are pressurized.

We recommend you hire a local concrete crew to pour and finish your pad. You will need to convey to the crew of the slope for the splash pad and also help them be aware of the functionality of the splash pad. Be sure they understand not to cover your nozzles or drain when pouring your pad or you will have problems. A broom finish will suffice for the look and feel of your splash pad. Should you decide to opt in for the acrylic coating, you will be able to add that to a broom finish and it will adhere to that finish a lot better.

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Splash Pad Start Up

Items you will want to check off, prior to starting up your splash pad.

- ★ Holding tank needs to be filled
- ★ 3 way valve is set to bypass
- ★ Pump needs to be primed
- ★ Plug in equipment after other items have been completed

Once the pump has been fully primed, according to manufactures instructions, slowly divert the water to the splash pad by way of the 3 way diverter valve. If this is fully open instead of in the bypass position, your nozzles will spray really high and you will lose some water. Adjusting the 3-way valve will allow you to control the height of the water to a reasonable level.

If you run into issues at any time during the splash pad installation process, we are here to help. Feel free to give us a call or send us an email and a Customer Service Rep will be in contact to assist you with your project.



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