



Large Sugar Kettle Fountain Kit Installation Manual



For use with
48" Sugar Kettle Fountains

48" SUGAR KETTLE INSTALLATION PREP



Notice the size of this Sugar Kettle is as wide as the Basin area. There are a few important things you can do during installation to prevent excess water loss.

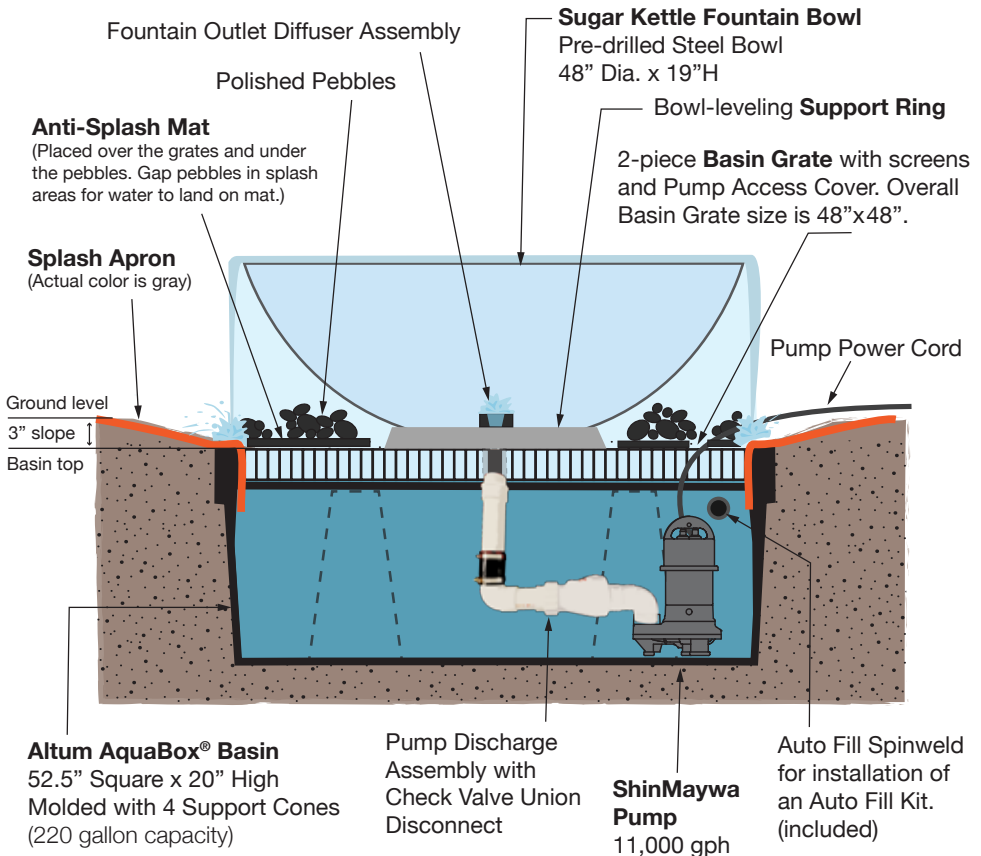
1. Make sure the Altum basin is excavated to set approximately 3" BELOW ground level.
2. Properly cut and install the gray **Splash Apron** to direct overflow back into the basin.
3. Use the black **Anti-splash Mat** to reduce splash.

About Excavation and Installation of the Basin:

For this application, excavate a slope approximately 3" below ground level for the **Splash Apron** to direct water back into the Altum Basin.

Note: The **Splash Apron** with 40"x40" center cut out should be in place before setting the **Fountain**. It will not fit over top of the installed 48" Sugar Kettle.

Side Cross-Section View



ALTUM AQUABOX® BASIN INSTALLATION



Altum Specs:

52.5"square x 20"H Basin with 4 molded supports,
2-piece 48"square Grate, and
Pump Access Cover with cord notch in one of the halves.

Recommended Tools for Installation:

Shovel, Marking Paint, Level, Rake and/or Tamp

**Be certain to avoid underground utilities.
If uncertain call your utility company or Miss Dig.**

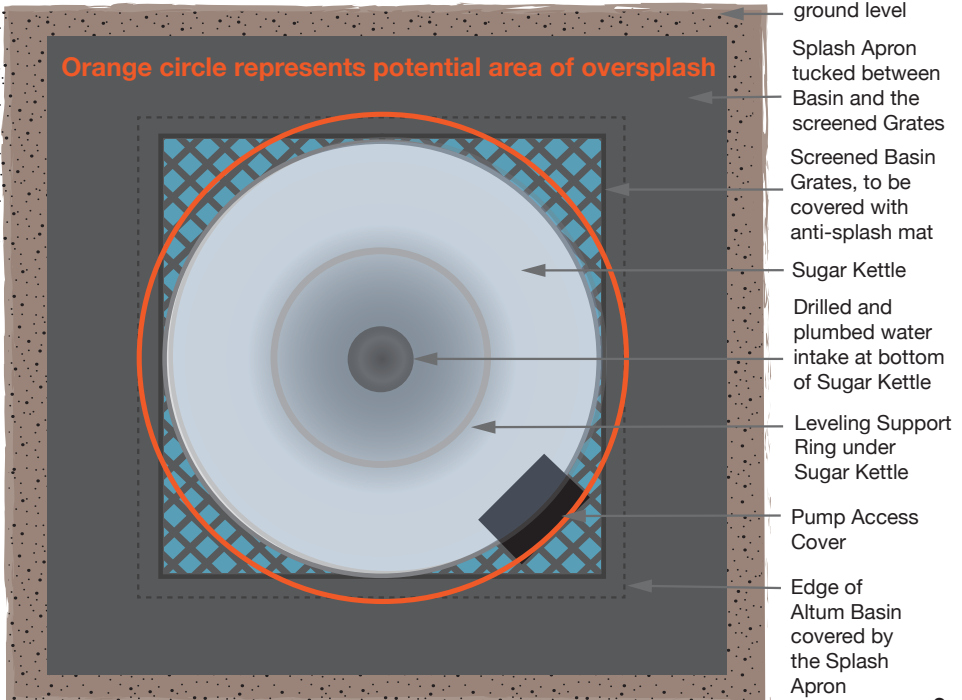
About Installing the Splash Apron:

Because the 48" Sugar Kettle extends the full width of the basin grates, this fountain will lose water if a Splash Apron isn't installed prior to placing the Sugar Kettle Fountain.

The **Splash Apron** will come as a piece of rubber liner, approximately 10 ft square, with the center cut out to direct oversplash back into the basin. We recommend tucking the surrounding liner into the basin then placing the grates to hold the Splash Apron in place. This leaves the grates open for maximum water retrieval.

The Splash Apron will extend about 3 ft from the basin grates in all directions. Once fountain installation is complete, the splash apron and screened grates may be disguised with Polished Pebbles.

Top View





STEP 1

Choose Basin Location

Consider your fountain location. Keep it near your preferred viewing area where both water and electricity services are accessible for the pump and fountain you will be adding. If your basin comes with a cardboard cover, you may leave it in place to keep dirt from falling in during installation.

Prepare to excavate by using marking paint to trace around your basin about 1"-2" wider than the top. Move basin aside.



STEP 2

Excavation of Basin Area

Using a shovel, dig 22"-23" straight down into the ground, slightly wider than the fountain basin making sure to remove any sharp rocks or roots.



STEP 3

Level and Tamp Soil

Important! Level the bottom of the hole with a layer of sand or small gravel and tamp it down thoroughly. This prevents settling over time, especially in the center where the weight load is heaviest.



STEP 4

Set Basin in Place

Set basin in the hole and verify that the box top is level and approximately 3" below grade.

Position the basin within the hole. Make sure the pump access in the grate is orientated near electrical service.



STEP 5

Check Basin is Leveled

Using a level, ensure the fountain basin remains level side to side. The basin should sit solidly on the leveled ground below. Hanging the lip of the basin on the surface can cause the basin to buckle over time.

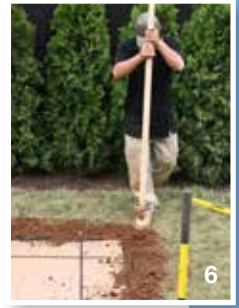
STEP 6

Backfill to Stabilize and Secure the Basin

If your basin included a cardboard cover leave it in place while you backfill to prevent soil from falling into the basin.

Backfill around the box and soil using excavated soil or self-compacting material such as sand or pea gravel. When using excavated soil be sure to regularly compact with a tamper.

Now you may brush off and remove cardboard. Vacuum out any dirt that may have fallen into the basin.



STEP 7

Slope and Smooth from Ground to Basin

Refer to the diagrams on page 2 for details on this process. Using a shovel, create a gentle slope starting approximately 18 inches from the edge of the basin. Slope the ground toward the basin lip to help direct any water runoff back into the basin, minimizing water loss. Clear any rocks and tamp to smooth.



STEP 8

Measure and Cut the Splash Apron

8a Measure to find center on the 10 ft x10 ft sheet of liner, then measure 20 inches in each direction from the center point.

8b Cut out a 40 in. x 40 in. square out of the splash apron center. This size will leave 4 inches all around to tuck under the basin grate.



STEP 9

Install the Splash Apron

Lay the splash apron over the open basin and set grates over the liner. Adjust until positioning of the splash apron is secure and satisfactory.



STEP 10

Place Grates Over Splash Apron

Carefully place grates over the splash apron on the basin. The sloped ground and splash apron will direct oversplash back into the basin.

Note: Normal evaporation is about 1-2" weekly, however, water loss is dependent on many factors including region, humidity, rainfall, and wind, as well as splash. You may want to consider our Auto Fill Kit (Item #ABDAUTO), see back.



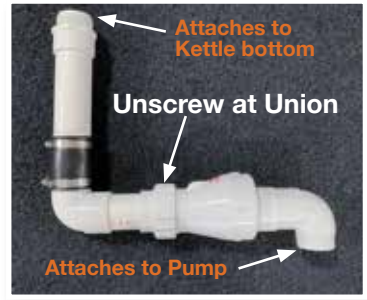
SUGAR KETTLE BOWL INSTALLATION

Next you will install the Sugar Kettle Fountain. The 48" Sugar Kettle weighs 122 lbs and is best installed by 2-3 people. It has been drilled and the bulkhead is installed and ready for plumbing. To install the pump and plumbing you will need to slide the grate with the pump access hole over to the side, taking care not to disturb the splash apron.

STEP 11

Plumbing Setup

For ease of installation, the plumbing assembly will be complete. However, you will want to separate the pump attachment from the bowl attachment, and easily reattach the union once the sugar bowl and pump in place. Simply unscrew the union at the check valve.



This plumbing assembly process allows easy access to the pump after the functioning sugar kettle fountain is in place.



STEP 12

Attach Pump Plumbing

- 12a** Remove blue flange from your ShinMayWa pump.
- 12b** Do not lose the black gasket beneath the blue flange.
- 12c** Thread the Check Valve assembly onto the flange.
- 12d** Reconnect flange to the pump, with the gasket back in place.
- 12e** Place the pump in the basin directing the pump plumbing toward the center of the basin where it will meet the bowl plumbing when in place.



STEP 13

Attach Sugar Kettle Plumbing to Pump Plumbing

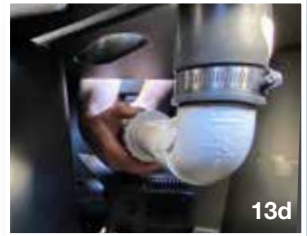
13a Tip and balance the the kettle on its edge (with help) while threading the intake assembly with the Fernco onto the bulkhead on the bottom.

13b Place the support ring on to the grates, in the center of the basin. Shift the grate with pump access cover off to the side a bit, so there is a larger opening into the basin.

Lift and set the kettle carefully guiding the plumbing assembly through the support ring and into the basin. Set set the kettle bowl on the support ring.

13c Slide grate back into place under the support ring.

13d The plumbing will easily connect, or disconnect, under the Sugar Kettle Bowl. Simply reach through the pump access and twist the pvc union by hand to attach to the pump with installed check valve assembly.



STEP 14

Install Finishing Items

14a **Place Pump Access Cover** Place the pump access cover on grate opening with the cord threaded through the notch.

14b **Place Splash Mat Over the Grates** You may easily cut your splash mat for your best fit. The splash mat limits water loss by allowing water to filter through it.

14c **Place Water Diffuser** The diffuser moves the water in the bowl so it flows evenly. Turn the water diffuser by hand onto the bulk head inside the bowl.



STEP 15

Level the Kettle Bowl

Leveling in all directions is important for keeping the fountain flowing evenly out of the bowl. To adjust simply slide the bowl on the support ring. You may use plastic shims under the support ring if the basin isn't level. Now you are ready to add water!



STEP 16

Fill and Test

If you haven't already added water to the fountain basin, use a garden hose to add water until the basin is filled to the bottom of the grates. Also fill the kettle with water until it begins to spill over.

Plug in the pump cord to test your fountain. Your kettle bowl should evenly flow over in all directions.



Finishing

Select decorative gravel that compliments your fountain, adjacent landscape and is sized appropriately to not fall through the cracks of the grates into the fountain basin. For the best look, consider adding plants and moisture loving ground covers around the footprint of the fountain basin, or adding a lighting kit.

Kit Tips



Elite Auto Fill Kit
#ABDAUTO



Muck Buster®
#PB2682

- Plumber's tape or silicone (not included) can be used to provide a watertight connection.
- These bowls will naturally evolve in coloration. The finish requires no maintenance, but upon occasion you may want to clean it with detergent and a soft cloth, do not use an abrasive.
- It is OK to run pump continuously 24/7, or you may choose to connect it to a timer.
- Fill evaporated water as necessary or considering installing our **Elite Auto Fill Kit #ABDAUTO**.
- Add **Muck Buster® #PB2682** every couple of weeks to the basin to ensure muck doesn't build-up over time and clog the pump.
- If algae forms on columns, brush off and use **CrystalClear® Algae D-Solv® #PB2002** to quickly clear organic debris and remove odors.



Now, snap a picture of your completed waterfall and post it to our Facebook page at facebook.com/bluethumbinc/!

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