

Tank Dimensions

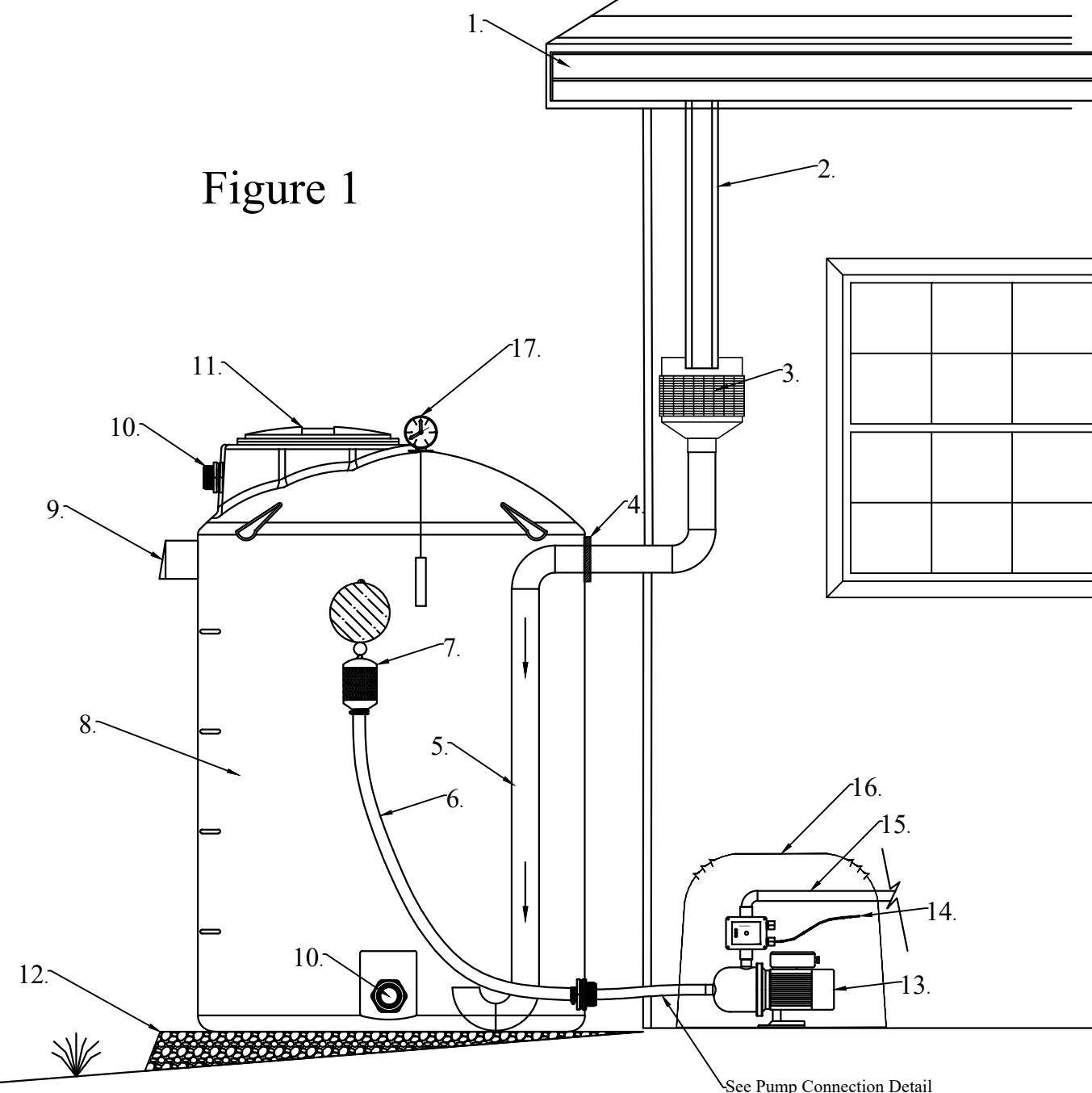
| RainFlo 500 Gallon Above Ground Tank System | | |
|---|--|----------------------------|
| Item # | Description of System Components | Qty. Supplied with Package |
| 1 | Roof Gutters | |
| 2 | Downspout | |
| 3 | Rain Filter: Leaf Eater Advance 3" with 3" PVC Pipe to Tank Inlet | 1 |
| 4 | 3" Pipe Gasket | 1 |
| 5 | 3" PVC Pipe with Elbows for Rain Water Inlet | 1 |
| 6 | 1" Pump Suction Hose (See Pump Connection Detail) | 1 |
| 7 | Graf 1" Stainless Steel Floating Extractor (See Pump Connection Detail) | 1 |
| 8 | Norwesco 500 Gallon PE Tank | 1 |
| 9 | Tank Overflow Outlet | 1 |
| 10 | Bulkhead Fitting and Plug Pre-Installed in Tank | 2 |
| 11 | 16" Tank Access Lid with Vent | 1 |
| 12 | Compacted Soil, Gravel or Concrete for Tank Base | |
| 13 | RainFlo MHP50A Pump and Controller | 1 |
| 14 | Pump Power Cord, Requires 115 volt Power Supply | |
| 15 | 1" Schedule 40 PVC Pipe and Adapters for Discharge to Use Point (Not Supplied) | |
| 16 | Pump Cover | 1 |
| 17 | Tank Level Gauge (See installation Instructions Included with Gauge) | 1 |

NOTE #1: Pump should be located within close proximity to the tank.

NOTE #2: Pump plumbing should be run with schedule 40 or better with thread by slip adapters at pump outlet, pump control and bulkhead fittings. A union is advisable for easy removal.

NOTE #3: It may be necessary to pipe the tank overflow such that water runoff does not erode area around tank.

USER'S Responsibility
Rainwater supplied by RainHarvest Systems is NON-Potable water. Warning do not drink water supplied from RainHarvest Systems rainwater systems and related equipment. We will be happy to offer suggestions on the use of our various products either by way of printed material or through direct contact with RainHarvest Systems team members. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WEATHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of RainHarvest Systems. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any team members suggestions or statements as to the application or construction. In no event of the purchase price of the product. Consult local building codes for the system use.



NOTE: This drawing is for illustrative purposes only. Actual systems and designs may vary. Always check with local building codes as they will apply. Electrical work to be performed by licensed professional. Points of use shall be labeled as: "Non Potable water, Do Not Drink!"

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|---|-------------|--|-----------|------------|
| Date: Aug 2020 | APP BY: CMG | DRAWN BY: CMG | QUOTE NO. | SH# 1 OF 1 |
| RainFlo 500 Gallon Above Ground Complete Rainwater Collection System | | | | |
| | | RainHarvest Systems LLC. 4475 Alicia Lane Cumming, GA 30028 Tel: 770-889-2533 | | |

500 Gallon Complete Above Ground Rainwater Collection
System Installation Instructions

1. Tank:

A level area within four to six feet from the house and downspout is recommended for the tank location. If the tank location is not level, a pad can be constructed from gravel or concrete (Item #12 Fig. 1). If concrete is desired, an experienced contractor may need to be consulted.

2. Inlet pipe:

Your tank has 4 flat areas at the top portion of the tank wall. Determine which flat area is closest to the wall where the downspout is located. This is the area where you will install the 3" inlet pipe (Item #5 Fig 1) . The hole will need to be accessible and should be located within an arm's reach. The best locations are the flat areas closest to the access lid. The internal 3" pipe kit supplied has the necessary fittings to install the pipe in any of the locations. Using the 4" (Large) hole saw, cut a hole in the flat area you have chosen 2-1/2" down from the top of the flat area Insert the rubber pipe gasket (Item #4 Fig 1) in the hole Assemble the interior inlet pipe as shown in detail Fig 2. Some of the pipe will come pre-assembled, the remaining pieces will need to be glued together using PVC cement. Lower the assembly into tank through the tank opening. Apply a liberal amount of soap to the surface of the gasket that will come into contact with the pipe. Push the straight end of the pipe through the hole so that approximately 6" of the pipe protrudes on the outside of the tank.

3. Install the Overflow Kit:

The tank overflow (Item #9 Fig 1) should be installed on the side of the tank that is away from the house. Using the large hole saw, cut a 4" hole and install the overflow kit per the instructions included with the kit.

4. Floating pump suction line inside the tank:

Install the 1" bulkhead fitting supplied with the kit on the tank close to where you will be installing the pump. Using the 2 1/4" hole saw, cut a hole approximately 4" from bottom of tank. Remove the reverse thread nut from the bulkhead fitting leaving the rubber gasket in place. Assemble all parts that will be inside the tank, hose barb, hose and floating extractor to the bulkhead fitting. See detail Fig 3. Tighten all hose clamps securely. Using a stiff wire, flexible rod or other means insert the assembly through the 2 1/4"hole in tank from outside and feed up towards tank access opening. Affix bulkhead fitting assembly to guide wire with tape. Guide bulkhead fitting to hole in tank and pull through. Remove the tape and guide wire. Install reverse thread bulkhead nut and tighten snugly.

5. Set Tank:

Once the inlet and pump suction assemblies are installed, place on tank pad. Make sure tank is oriented with the inlet pipe closest to the downspout.

6. Leaf Eater:

The Leaf Eater should be installed in the downspout at a level that is slightly higher than the inlet into the tank (Item #3 Fig 1). The Leaf Eater should be fastened to the wall with fasteners appropriate for the wall type. Once the Leaf Eater is fastened to the wall, use 3" Schedule 40 PVC pipe, elbows and coupler to connect to the inlet pipe on the tank to the Leaf Eater. Dry fit all pipe components to ensure proper fit. PVC cleaner and cement are recommended to make all connections. Use support straps if necessary.

7. Pump and pump connections:

Connect the pump suction line included with the system according to the installation detail provided (Figure 4). Install 1" hose barb in the 1" bulkhead fitting located near the bottom of the tank. Use Teflon thread tape to seal all threaded connections. Install one end of the flexible hose supplied on the hose barb. A small amount of lubricant such as dish soap may be used to allow the hose to slip on to the hose barb. Secure the hose with the hose clamp provided. Install the other 1" hose barb in the suction inlet of the pump. Be sure to use thread tape to prevent leakage. Install the hose clamp and tighten securely.

8. Pump cover:

Place the pump cover base on a level location, place pump on base. The pump does not need to be fastened to the base but can be if required for security. Connect the discharge plumbing (Item #15 Fig 1 not provided) to outlet of the MHPXXA which is located on top of the controller (Item #13 Fig 1). Cut the pump cover as needed for the suction and discharge piping. Use a pair of tin snips to cut out openings in the cover. Make sure the pump cover sits securely over the pump and rests on the base.

9. Start up:

Once you have collected enough water in the tank, plug the pump into an 115v receptacle. The pump will start and run but there may be some air in the suction line and pump housing. This could prevent the pump from building pressure. It may be necessary to remove the small plug on the pump housing to bleed the air from the line. Once all the air is purged from the plumbing, the pressure should build to 65 PSI and the pump should shut off. If the pump restarts repeatedly, there may be leaks in the plumbing. Check all connections for any leaks and repair.

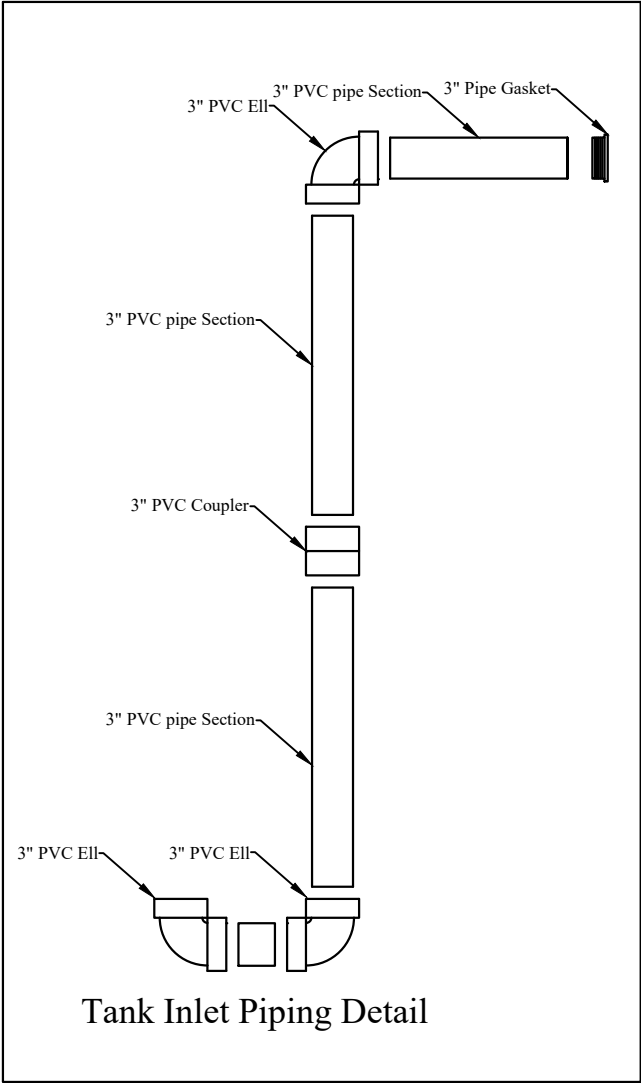


Figure 2

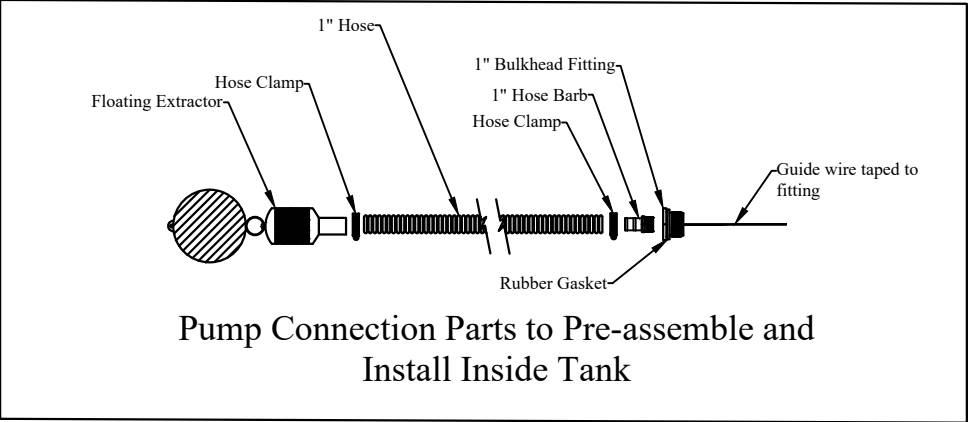


Figure 3

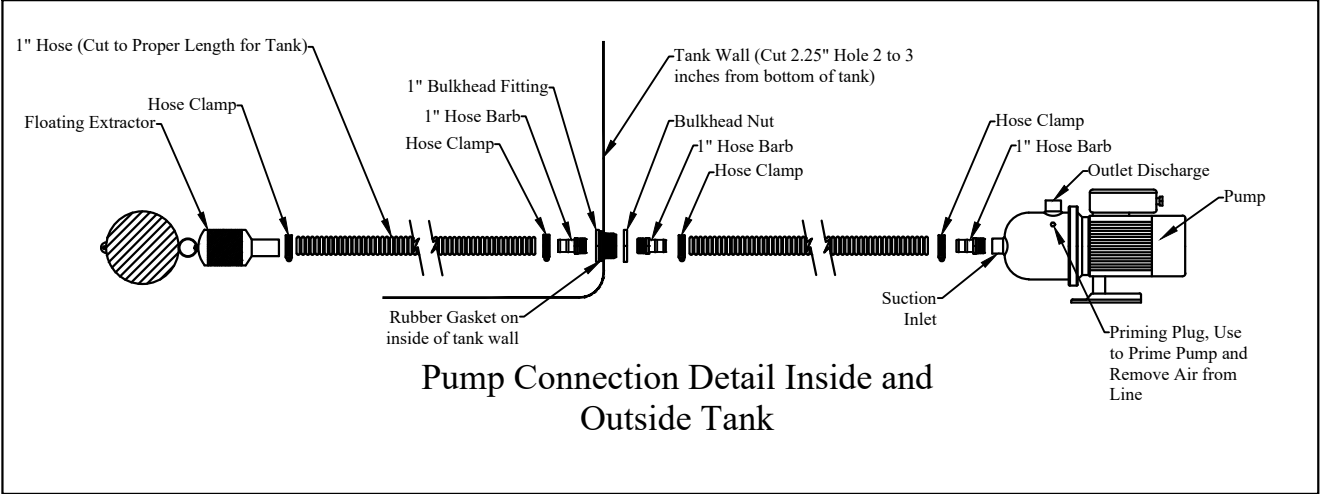


Figure 4

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