

REVISIONS

REV	DESCRIPTION	DATE	APVD
A	Revision 102	04/10/23	

RainFlo Above Ground Bundle		
Item #	Description of System Components	Qty. Supplied with Package
1	Roof Gutters	
2	Downspout	
3	Rain Filter: Leaf Eater Advance	1
4	3 Inch Rain Harvesting First Flush Diverter (See Installation Instructions)	1
5	3" PVC Pipe	
6	3" or 4" Multi Tite Gasket	2
7	Graf 1" Stainless Steel Floating Extractor (See Pump Connection Detail)	1
8	1" Pump Suction Hose (See Pump Connection Detail)	1
9	Overflow Siphon with 4" Gasket	1
10	Bulkhead Drain Fitting and Plug Typically Pre-Installed in Tank	
11	16" Tank Access Lid with Vent	1
12	Compacted Soil, Gravel or Concrete for Tank Base	
13	RainFlo MHP75A Pump	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	Optional Pump Cover (Not Supplied in Bundle)	
17	Tank Level Gauge (See installation Instructions Included with Gauge)	1
18	Polyethylene Tank, Sizes Vary	

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.

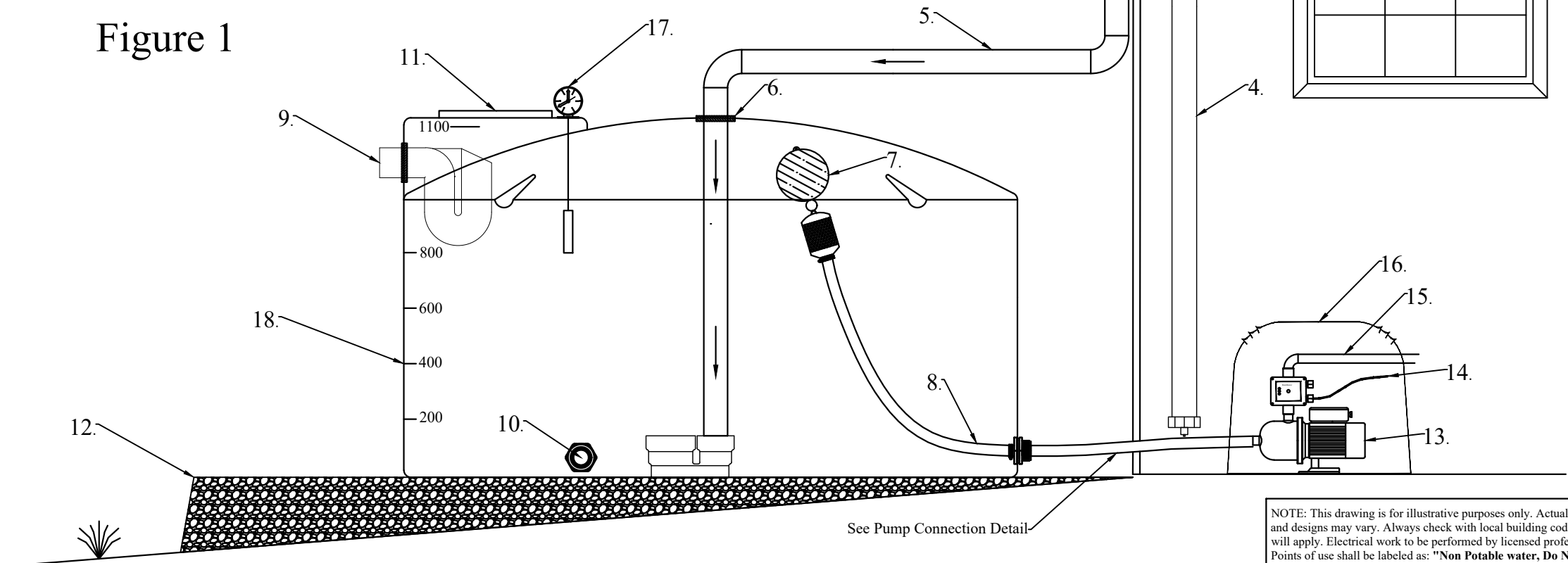
NOTE #3: It may be necessary to pipe the tank overflow such that water runoff does not erode area around tank.

NOTE #4: The upper Bulkhead Fitting can be Removed and the hole size increased to accommodate the Overflow Siphon.

NOTE #5: Tank must be placed on level surface. Compacted soil, gravel or concrete is best. Locate as close to inlet of gutter system as possible.


NOTE #6: Fasten the calming inlet (number 3) to PVC pipe using 2 stainless steel screws to prevent it from disconnection from pipe

Figure 1



NOTE #7: Above ground polyethylene tanks can be modified by adding bulkhead fittings and multi-tite gaskets where necessary. Use a hole saw of the correct size for the fitting being installed.

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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ADDITIONAL RESOURCES	DWN	RainFlo Above Ground Bundle Installation	
	CMG	 RainHarvest Systems LLC. 4475 Alicia Lane Cumming, GA 30028 Tel: 770-889-2533 www.rainharvest.com	
	CHK		
DIMENSIONS	APVD		
INCHES	CMG		
SH.#	WEIGHT		
1 OF 1	SIZE	B	SCALE NTS
			ITEM NO
			QUOTE NUMBER

Important Information
 Warning: Do not drink untreated rainwater. This system does not include disinfection, therefore is non-potable water. Refer to our filtration products for potable water solutions.
 User shall determine the suitability of the product for the intended application before installation. NO WARRANTY of MERCHANTABILITY, FITNESS for PURPOSE, or OTHERWISE is explicit or implied. User assumes all risk and liability whatsoever in connection with, regardless of any employee's suggestions or statements, the system application or construction. Furthermore, consult local building codes for system use, conditions, restrictions, or requirements.

Above Ground Bundle Rainwater Collection System Installation Instructions

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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 a large domed top and its best to install the inlet pipe in the center. This is the area where you will install the 3" or 4" inlet pipe (Item #5 Fig 1). Connect the inlet pipe (Not supplied in bundle) from the First Flush through the tank and down to the Calming Inlet resting on the bottom of the tank. Using either a 4" (for 3" pipe) or a 5" (for 4" pipe) hole saw, cut a hole in the center area. Insert the rubber pipe gasket (Item #4 Fig 1) in the hole. It is helpful to apply soap liberally to the pipe and gasket to aid in the installation.

Assemble the interior inlet pipe as shown in detail Fig 2. Glue together using PVC cement.

3. Install the Overflow Siphon:

The tank overflow Siphon (Item #9 Fig 1) should be installed on the side of the tank that is away from the house. Using a 5" hole saw, cut in desired location. Install the overflow siphon from the inside of the tank with the straight section protruding through the gasket to the outside of the tank.

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 and First Flush Filter 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 and First Flush should be fastened to the wall with fasteners appropriate for the wall type. Once the Leaf Eater/First Flush is fastened to the wall, depending on which kit you have use 3" or 4" Schedule 40 PVC pipe, elbows and ensure 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. Optional 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.

Important Notes:

1. Use Teflon thread tape on all threaded fittings.
2. Use soap to ease installation of hose onto barb.
3. If water level in tank is low the suction hose may have air in hose and need to be primed.
4. Tighten all connections securely.
5. For best results do not install pump higher than the connection at bottom of tank.

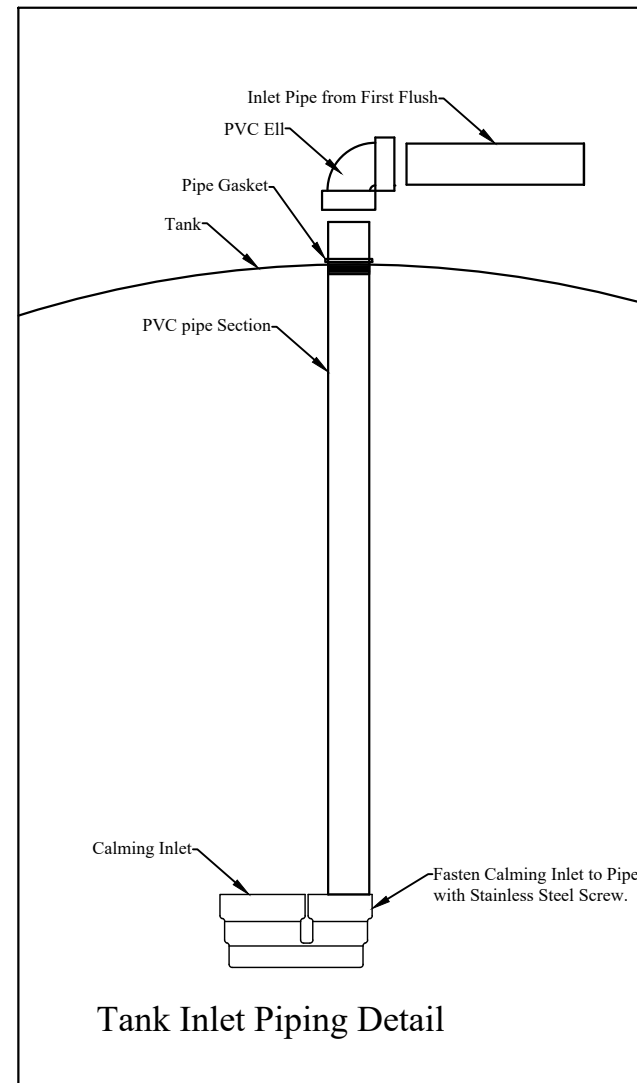


Figure 2

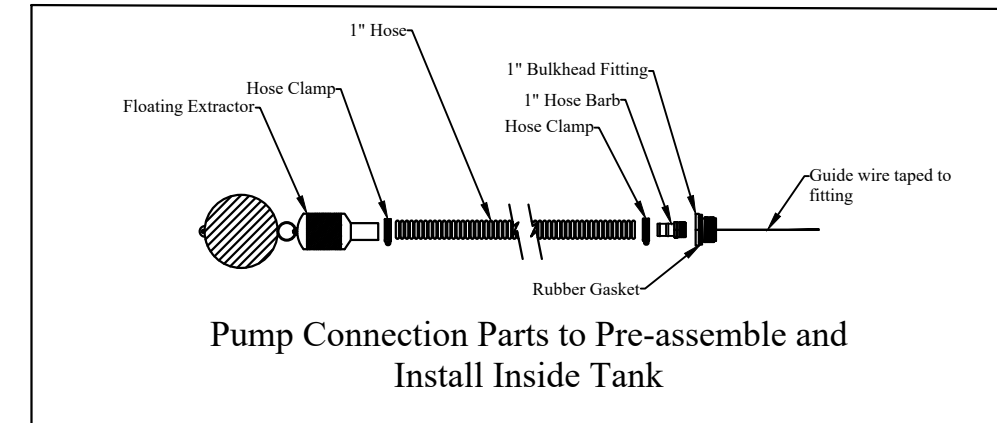


Figure 3

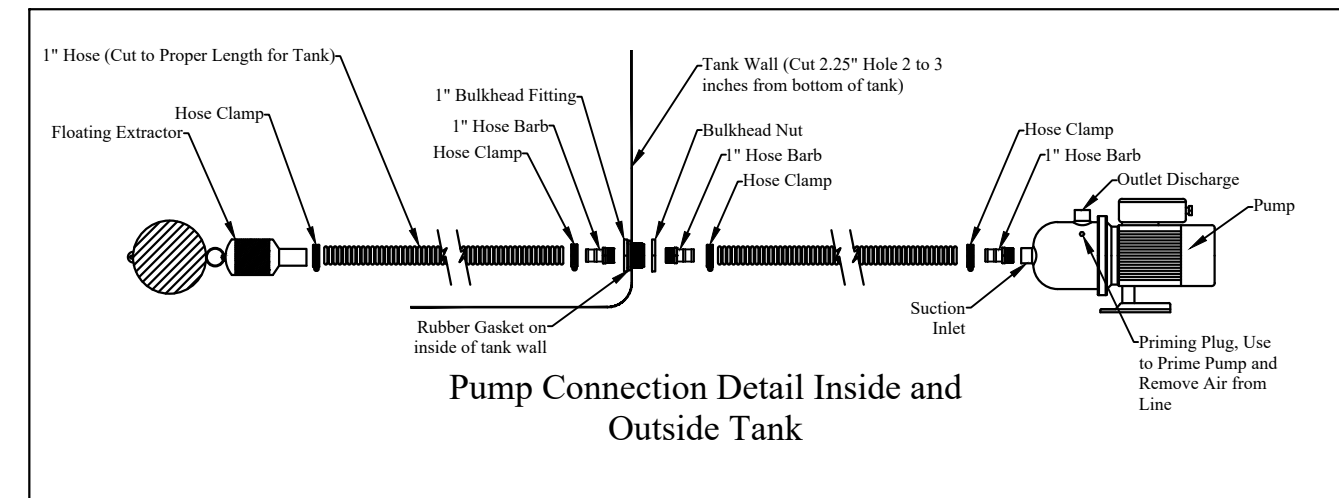



Figure 4

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