



# Lil Guppy with External Tank

OWNER'S MANUAL

Serial No. \_\_\_\_\_



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# Lil Guppy with External Tank Owner's Manual

## Product Specifications

Description: The Lil Guppy with External Tank is a pump system designed for kids of all ages. The manually operated stainless steel pump simulates the action of a traditional water hand pump. However, no well is needed as it can be connected to a pressurized water line (like city water) which automatically refills the external tank as water is pumped out.

### Features

- Automatic tank refill
- Self-priming and no routine maintenance
- 10' Hose, hose barbs, and hose clamps included

### Composition

- Hand pump body, handle, and lift rod are stainless steel
- Tank material is NSF approved Acetal
- Fasteners are stainless steel
- Gaskets, Cup Seals, O-rings are food-grade Buna rubber
- All other components are stainless steel, NSF approved Acetal or lead-free brass

### Physical Characteristics

- Tank Dimensions: 16" x 12" x 14 ½" (LxWxH)
- Tank Holding Capacity: Approximately 3 gallons
- Tank Weight (dry): 5 lbs.
- Tank Inlet Connection: ¾" GHT (¾" NPT Female Optional)
- Tank Outlet Connection: 1" hose barb

## **System Components:**

- One (1) Lil Guppy Playground Pump
- One (1) Tank Assembly
- One (1) 10' Clear Braided Hose
- One (1) 1" Hose Barb Adapter – PVC
- One (1) 1" Hose Barb Adapter – Stainless Steel
- Two (2) Stainless Hose Clamps
- One (1) ¾" GHT x ¾" NPT Adapter (Optional)
- One (1) 2" x 1" Reducer Bushing

## **Required Tools:**

Two (2) 9/16" wrenches or sockets, one (1) pipe wrench, one (1) flathead screwdriver, one (1) roll of pipe thread tape

## Installation

**Warning – You must comply with your local plumbing code. Contact a certified plumber if you have questions about proper plumbing codes in your area.**

Before you begin the installation of your new pump, open the box and inspect the contents. Verify that you have received everything that you ordered. If there is anything that is missing or does not match, please contact us immediately to correct the situation at [Sales@CadronCreekPlay.com](mailto:Sales@CadronCreekPlay.com).

Record your Pump Serial Number on the front page of this manual.

Before deciding on the location of your pump and tank, you should consider the physical limitations of this style of pump and tank. The pump should be installed in a location that meets the vertical and horizontal pumping limitations of your pump. See the pump manual and **Diagram B** for more details.

The following are precautions for tank placement and usage: do not place tank under direct sunlight, do not allow tank temperature to rise above 100°F, do not abuse tank either by excessive force, impact, heat or by use of chemicals, tank should only be used to store water, avoid potential damage to tank (consider surrounding and what could cause puncture to the tank), the water should be considered non-potable unless the inside of the tank is cleaned prior to installation and is properly maintained thereafter.

Read the instructions completely before beginning the process.

### **Review **Diagram A** before starting the installation process**

#### **Step 1: Connecting to city water supply line**

Add the following items to the incoming water supply line:

- 1) Shutoff valve
- 2) Pressure reducing valve (if you know the line pressure exceeds 60 PSI)
- 3) Backflow preventer valve if required by your local or state regulations
- 4) The supply line to the tank should not be smaller than ¾" diameter from the supply valves to the tank connection. A flexible line, such as a standard water hose, can be used to connect to the ¾" GHT tank connection on the lower side of the tank. If desired, pipe and/or pipe fittings can be used to connect to the ¾" NPT (black plastic) connection of the lower side of the tank by removing the adapter.

#### **Step 2: Install Tank**

- A) The tank should be installed inside an enclosed sturdy platform at the desired location.

- B) Position the tank so there is adequate room for the incoming water supply line and fittings as well as room to attach the hose leading to the pump. (Reference Diagram A)
- C) Be sure the tank is relatively close to the desired pump location if using the provided 10' clear braided hose.
- D) Once tank location is determined and tank is in place, attach the supply line to the tank inlet fitting on the lower side of the tank. (Use thread tape and tighten with pipe wrench if using NPT fittings)

### **Step 3: Connecting the Lil Guppy Playground Pump to the tank**

- A) Place a hose clamp over the end of the hose and leave loose.
- B) Attach the provided 10' clear braided hose to the 1" PVC hose barb fitting on the outlet at the top of the tank by working the hose over the barb fitting.
- C) With the hose fully attached to the hose barb, secure the two by placing the hose clamp over the hose and hose barb then tightening the hose clamp using a flathead screwdriver.
- D) Anchor bolt and supply line holes should be drilled through the top of the pump mounting surface. See the installation portion of the pump manual for more details.
- E) Attach the reducer bushing to the bottom of the pump if not already attached. Be sure to use thread tape and secure with a pipe wrench.
- F) Attach the 1" stainless hose barb fitting to this reducer bushing using thread tape and a pipe wrench.
- G) Place a hose clamp over the downstream end of the hose and leave loose.
- H) Bring this end of the hose up through the supply line hole of the pump mounting surface. Attach this end of the hose to the hose barb on the bottom of the pump by working the hose over the barb fitting.
- I) With the hose fully attached to the hose barb, secure the two by placing the hose clamp over the hose and hose barb then tightening the hose clamp using a flathead screwdriver.
- J) Position the pump in its desired location.
- K) Attach anchor bolts, nuts, and washers (not included) as instructed in the installation portion of the pump manual to secure the pump to its platform.
- L) Be sure there are no kinks in the hose and that all connections are secure.

### **Step 4: Filling the tank with water**

- A) Turn on the water supply line.
- B) Open the Shutoff Valve to allow the water to fill the tank. The tank will be filled to approximately 3 gallons as a reserve for pumping.

### **Step 5: Operation of Lil Guppy Playground Pump**

Begin pumping the handle on the Lil Guppy pump. Water should begin to flow from the spout after 2-3 strokes. Make sure there are no leaks at any of the connections.

Please refer to the Lil Guppy Playground Pump Owner's Manual for operation and maintenance information about the Lil Guppy Playground Pump.

## **Winterize the System**

**\*\*\* Failure to winterize may void the warranty. \*\*\***

- A) Shut off the water supply at the shutoff valve
- B) Disconnect the supply line from the tank connection on the side of the tank to drain the water from the tank.
- C) To drain the water from the Pump, hold the pump at an angle and pump the handle until all the water is removed. Remove and store in a safe warm place.
- D) Reconnect the supply line to the tank after water is completely drained. If desired, remove tank and store in a safe warm place.

## **Dewinterize the System**

- A) Place the tank back in its desired location if removed.
- B) Reconnect the supply line to the tank if not already.
- C) Reconnect the downstream end of the hose to the hose barb on the bottom of the pump as done in installation.
- D) Position the pump in its desired location.
- E) Attach anchor bolts, nuts, and washers as instructed in the installation portion of the pump manual to secure the pump to its platform.
- F) Turn on the water supply at the city supply valve
- G) Make sure there are no kinks in the hose and that all connections are leak free and secure.

## **Contact**

Please read and understand all instructions. If help is needed or you have questions regarding your product, you can email technical support at [sales@CadronCreekPlay.com](mailto:sales@CadronCreekPlay.com) or call our toll-free number **1-888-403-7867**.



## Appendix

## DIAGRAM A: Standard Installation

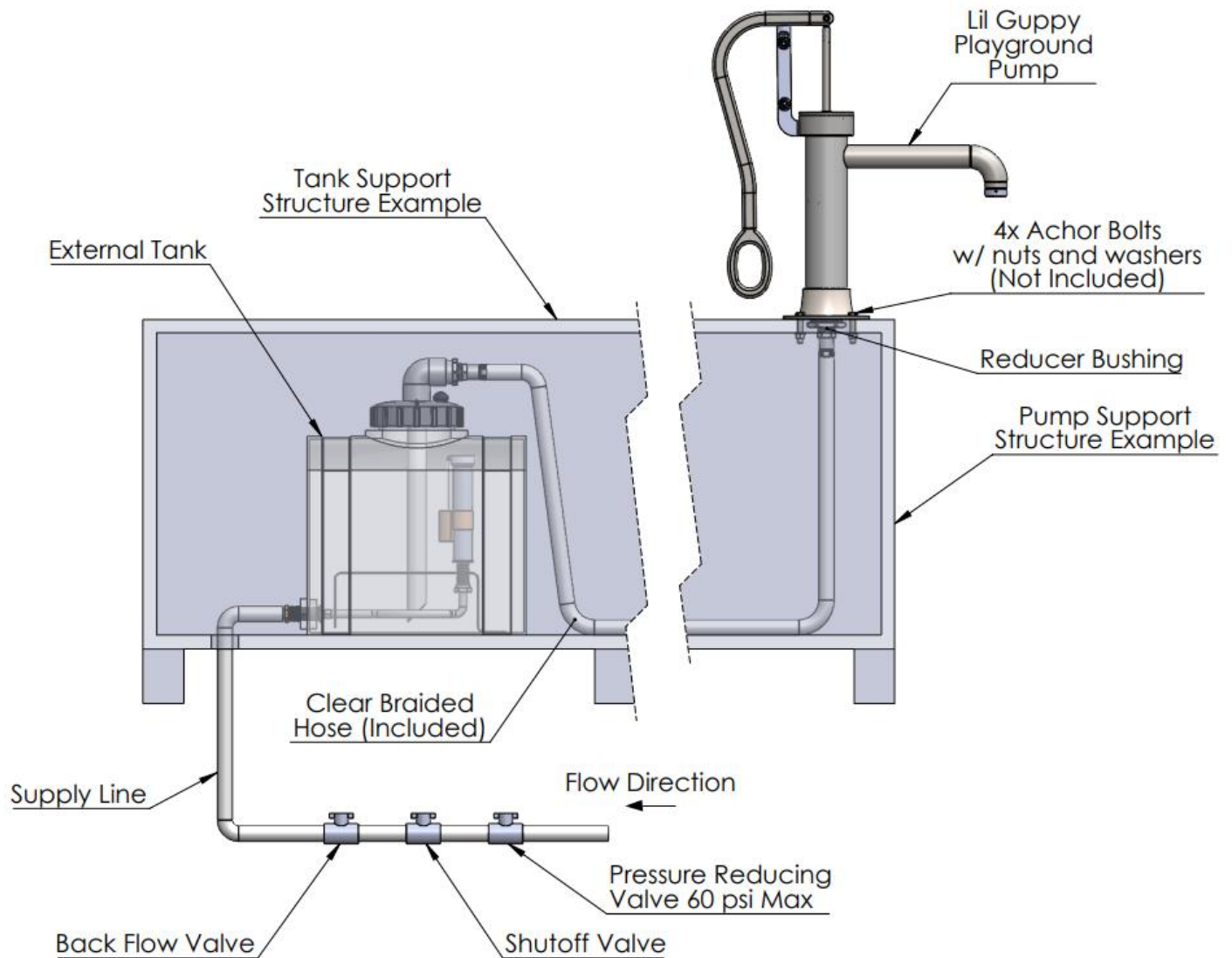


DIAGRAM B: Tank Dimensions

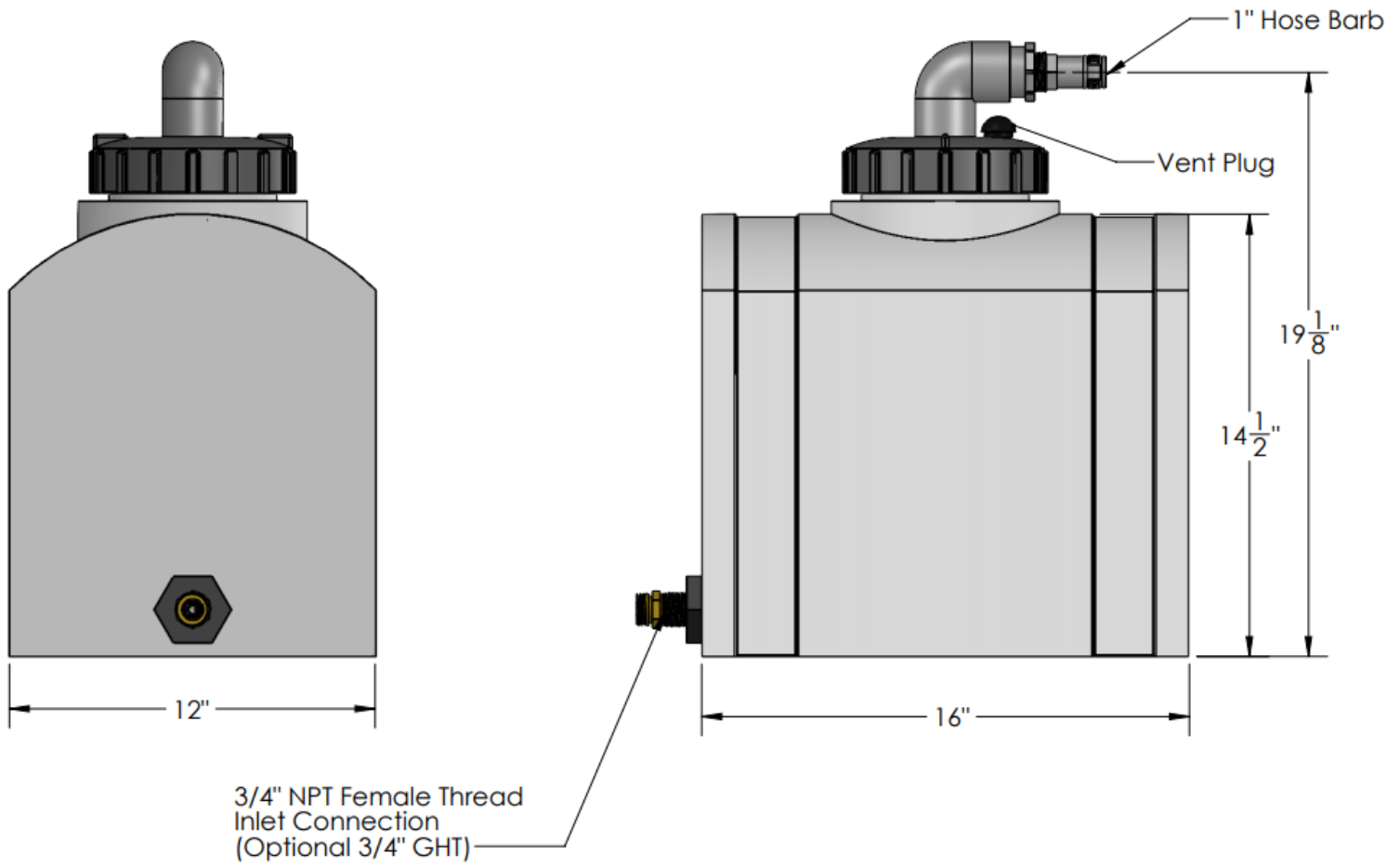
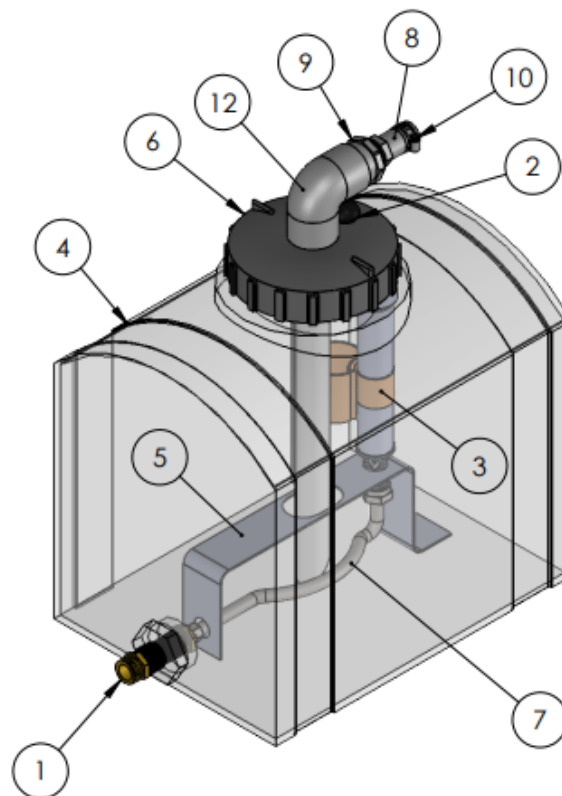
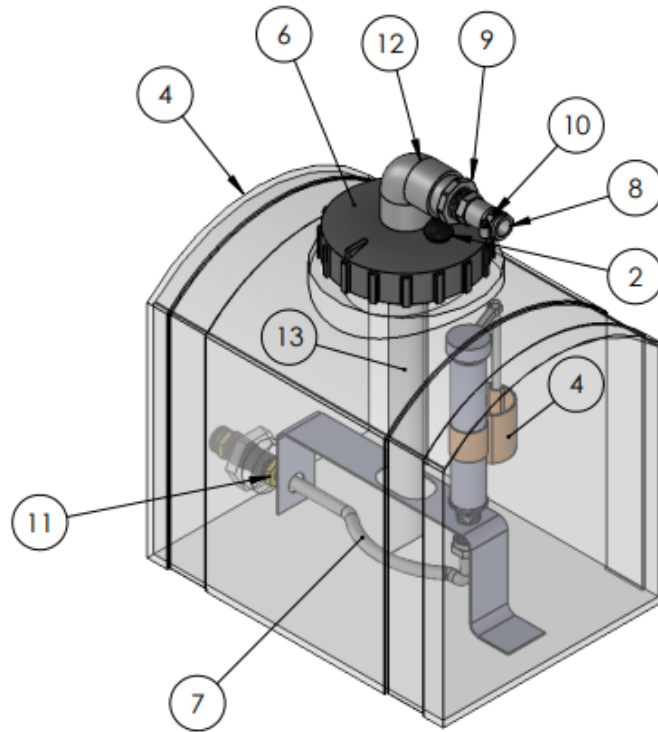


DIAGRAM C: Tank Iso Views



## Diagram D: Tank Part Listing

Item No.	Part Number	Description	Quantity
1	04-035-0-72-01	$\frac{3}{4}$ " GHT x $\frac{3}{4}$ " NPT Adapter	1
2	50-200-0-11-01	Vent Plug	1
3	65-005-0-10-10	Float Valve	1
4	65-007-0-10-02	Tank Body	1
5	65-007-0-10-03	Support Bracket	1
6	65-007-0-10-04	Tank Cap	1
7	65-007-0-10-05	Stainless Braided Water Connector	1
8	65-007-0-10-06	1" Hose Barb Adapter - PVC	1
9	65-007-0-10-07	1 $\frac{1}{4}$ " x 1" PVC Adapter	2
10	65-007-0-10-10	Stainless Hose Clamp	2
11	65-007-0-10-11	$\frac{3}{8}$ " CMP x $\frac{3}{4}$ " MPT Adapter	1
12	65-007-0-10-12	1 $\frac{1}{4}$ " PVC Elbow	1
13	65-007-0-10-13	Tank Suction Pickup Tube	1
(Items not shown but included)			
	04-029-0-74-02	2" x 1" NPT Reducing Bushing	1
	65-007-0-10-09	10 ft. Clear Braided Hose	1
	65-007-1-10-06	1" Hose Barb Adapter – Stainless	1