# HydraPump™ Mini

## Owner's Guide

## USAGE GUIDE

**NOTE:** This Water Pump has been designed to operate on 110-120 Volt, 60 Hz exclusively. Using any other voltage or Hz adversely affects performance.

**IMPORTANT:** Keep this guide for future reference.

**CAUTION:** Be sure to review SAFETY INSTRUCTIONS FIRST PERTAINING TO A RISK OF FIRE, ELECTRICAL SHOCK OR INJURY TO PERSONS before using the pump.

## TOOLS AND MATERIALS YOU MAY NEED

- Absorbent cloth or HydraTowel™ to for clean up and maintenance
- Standard hose for the outlet, a small hose is provided for the inlet
- PTFE tape, sometimes this is referred to as 'plumber's tape'

## PACAKAGE CONTENTS

1 piece - HydraPump Mini
1 piece – Plastic Inlet strainer
1 piece – Short inlet hose
1 piece - repair and maintenance kit
1 Tablespoon – Food grade vegetable oil

## SITE PREPARATION

Make sure your work area where you intend to use the pump is clear of clutter and well lit. Also ensure that the pump is in a location that it will not be submerged or in contact with external water.

The pump is designed to pump **fresh water** so please make sure that the water source does not contain large bits of debris.

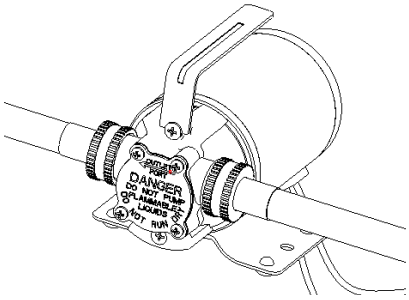
## IMPORTANT SAFETY INSTRUCTIONS

**INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS. SAVE THESE INSTRUCTIONS.**
**WARNING – When using electrical pumps, basic precautions should always be followed, including the following:**

1. Read all instructions before using the pump.
2. To reduce the risk of injury, close supervision is recommended at all times that the pump is in operation.
3. Do not put fingers or hands into a water pump inlet our outlet when operating.
4. Unplug the power before attempting to move the pump.
5. For proper grounding instructions see the ELECTRICAL CONNECTION portion of this manual.

# WATER AND ELECTRICAL CONNECTIONS

## HOSE CONNECTIONS




Connect a standard garden hose to the both the inlet and outlet of the pump. If using another hose than the provided short hose for the inlet connect, then ensure that the supplied inlet hose is less than 25' long and less than 10' above the water source.

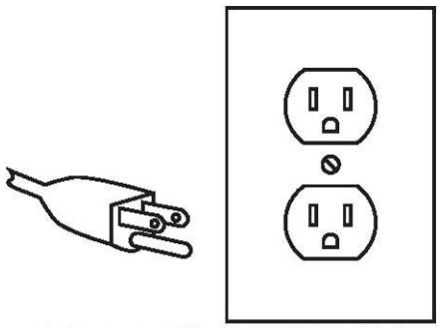
Note: Keep the hoses as straight as possible and this will improve the efficiency of the pump.

## GROUNDING INSTRUCTIONS

THE WATER PUMP IS EQUIPPED WITH A GROUNDED PLUG-IN POWER CORD. This pump must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This pump is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

## ELECTRICAL CONNECTIONS

A. Connect pump to 110-120 Volt, 60 Hz AC current only.
B. Use a three prong plug, see figure below:



**3-Prong Plug and Outlet**

**CAUTION:** Do not allow the pump, electrical cord, or electrical outlet to come into contact with water. This may result in serious injury. If unsure of how to install or use this pump consult a licensed electrician.

# OPERATING INSTRUCTIONS

## PUMP PREPARATION

Before operating, the pump needs to be oiled. Pour ½ tablespoon of food grade vegetable oil into the inlet of the pump. This should provide the necessary lubrication to the impeller.

## OPERATION

The following are the steps for operation

1. After oiling the pump, make sure inlet and outlet hose are connected firmly attached.
2. Verify that the pump is placed in a safe area and will not be submerged or come in contact with a water source.
3. Check that the inlet hose is submerged connected to a water source.
4. Make sure the end of the outlet hose is connected correctly.
5. Carefully plug the pump into a 3-wire, 120 Volt, 60 Hz, grounded A.C. Outlet to begin operation.
6. The pump is self-priming and water should begin to flow 30 seconds or less.
    a. If water does not flow unplug the pump and check the connection and setup.
    b. Operating the pump without water for an extended period may damage the pump and cause it to fail.
7. Once pumping has completed, unplug the pump. The pump may become hot during operation. Be careful we working near or touching the pump.

**CAUTION:** Water and electricity do not mix. Make sure continuously check that the power connections and cables are not in contact with water. Consult an electrician if you have any questions or concern about the electrical circuit or pump operations.

## TROUBLESHOOTING

| Problem | Possible Causes | Possible Solutions |
|---|---|---|
| Pump will not start | 1. No power or cord not connected | 1. Check outlet power or plug in pump |
| Pump is on but no water is flowing | 1. Pump not oiled<br>2. Inlet hose is too long<br>3. Hoses kinked | 1. Oil pump through inlet<br>2. Shorten the inlet hose<br>3. Straighten out the hoses |
| Pump stops with warning | 1. No water to pump<br>2. Pump has overheated and thermal overload has tripped<br>3. Hoses have become kinked | 1. Check inlet water supply<br>2. Unplug and let the pump cool<br>3. Straighten out hoses |
| Pump leaks | 1. Hose O-rings missing | 1. Remove inlet and outlet hoses and reinstall |

### CONTACT

For additional questions or comments please contact Watershed Innovations at the following:
Email: info@hydrabarrier.com
Phone: +1 (888) 876-4068 9AM to 5PM Pacific

## CLEANING AND MAINTENANCE

### BEFORE EACH USE

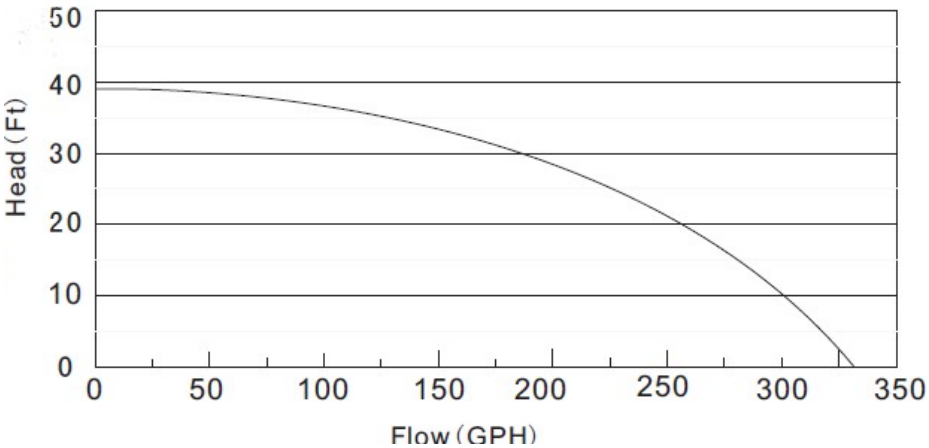
Inspect the general condition of the pump. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.

### AFTER USE

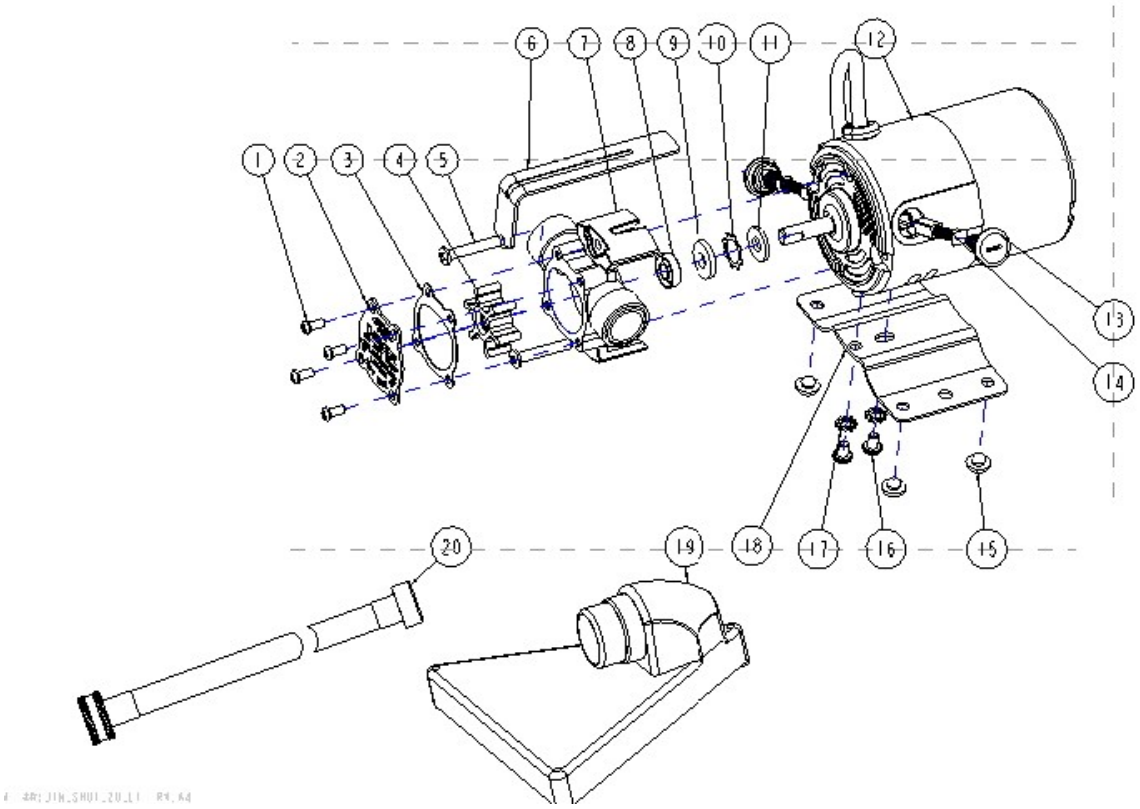
Unplug the pump and let cool, as it may be hot from operating. Remove the hose connections. Carefully tilt and drain all excess water from inside the pump. Lastly, clean external surfaces of the pump with clean cloth or sponge.

## SPECIFICATIONS

- 1/10 HP, Single Phase 120V ~60Hz, 2.3A
- 3/4” Chrome-plated bronze suction/discharge connectors.
- Easy-carry handle for portability.
- 18AWG power cord, 6’ long
- Flow, please see chart below:



# REFERENCE PARTS LIST




Parts list reference:

| No. | Component | No. | Component |
|---|---|---|---|
| 1 | M4*10 Phil. Pinhead screws | 11 | Water thrower |
| 2 | End cover | 12 | Motor |
| 3 | Seal washer | 13 | Brush cap |
| 4 | Impeller | 14 | Brush and spring set |
| 5 | M5*30 Phil. Pan head screws | 15 | Foot pad |
| 6 | Easy-carry handle | 16 | M5*7 Phil. Pinhead screws |
| 7 | Pump body | 17 | Serrated gasket |
| 8 | Oil seal | 18 | Baseboard |
| 9 | Wool felt | 19 | Suction attachment |
| 10 | Oil slinger | 20 | Inlet hose |