

## AquaMax Installation and Operating Instructions

The AquaMotion APB-30 is designed to increase the water pressure in a home by approximately 30 psi over the incoming pressure to the home. The incoming pressure is either the pressure supplied by the municipality on the main to the home or the pressure developed by the homes water well system.

Note: When used with a water well system a flow control device may be required to avoid over pumping the well. Selection of the flow rate for the control device should be based on the rated flow of the well pump. For instance, a 10 gpm well pump will require a 10 gpm flow control setting.

### Safety Instructions

**“Warning”** warns of hazards that can cause serious personal injury, death or significant property damage if ignored.

**“Caution”** warns of hazards that can or will cause minor personal injury or property damage if ignored.

### General Safety

**Read and follow the following safety instructions.**

Maintain safety labels, replace missing or damaged labels.

- 1) Follow all local and national plumbing, building and electrical codes when installing the pump and control. Use rigid pipe.
- 2) **“Warning” Hazardous Pressure.** The pump body may explode if used to boost pressure above 140 psi. Do not use this pump with inlet pressure greater than 60 psi. If not already in the plumbing system, install a pressure relief valve in the pump discharge pipe capable of passing the full pump flow at 125 psi. If local code requires installation of a pressure relief valve capable of passing the full flow of the pump at a pressure less than 125 psi, follow the code requirements.
- 3) **Never run the pump dry.** This can damage internal parts of the pump or cause the pump to overheat and void the warranty.
- 4) **“Warning” Risk of fire and explosion.** To avoid risk of fire and explosion, **Pump Water Only** with this pump. Do not pump flammable liquids or chemicals. Do not use the pump near gas pilot lights or where chemical or gas fumes are present. Use of an electric pump with liquids other than water or in an atmosphere containing chemical or gas fumes may ignite those liquids or gases and cause injury or death due to explosion or fire.
- 5) **“Warning” Burn Hazard.** If water is trapped in the pump during operation it may turn to steam. Trapped steam can lead to an explosion and burns. Never run the pump with the outlet closed or obstructed.
- 6) **“Caution” Do not touch an operating motor.** Modern motors operate at high temperatures. To avoid burns when servicing the pump, allow it to cool for 20 minutes after shutting down before handling.

### Electrical Safety

**The pump is equipped with a 3-conductor grounding cord. Connect only to a GFCI protected outlet or circuit. Do not lift the pump by the power cord.**

**“Warning” Hazardous Voltage. Can shock, burn or cause death. Ground the pump before connecting it to a power supply. Shut power off to the pump prior to doing any work on the pump or motor.**

**Do not allow water to come in contact with the motor, pump controller or power cords.**

**Allow the pump to cool after it is unplugged.**

**Plug the pump and controller into a GFCI protected outlet.**

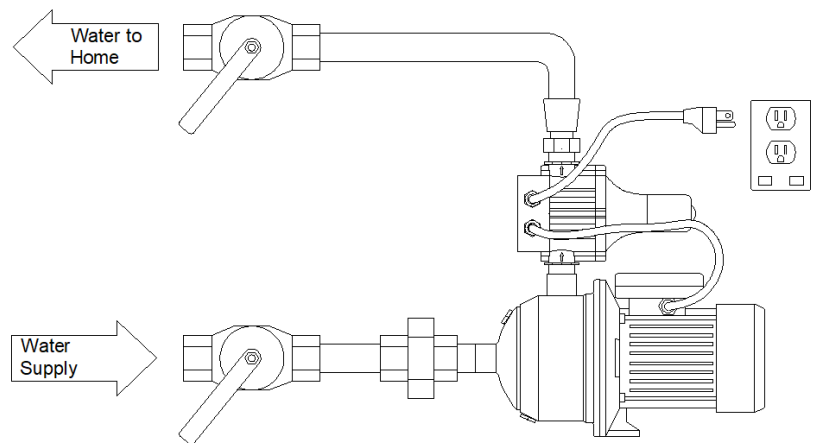
## General Information

- Pump only clear water
- The water supply line to the pump should be 1" or larger
- Protect the pump and control from freezing
- Do not use pipe dope on the controller threaded connections. Use Teflon tape
- Mount the pump securely and level to minimize movement and vibration
- Protect your system with a pressure relief set at or below 125psi. System must be capable of sustaining the pressure relief setting.

## Installation

Choose a location that will be dry, flat and stable with access to a GFCI outlet. Orient the pump to ease plumbing connections so the pump control panel is visible. Decide where and how the incoming piping will be connected and what additional fittings may be required to attach the home's plumbing to the pump. The pump has a 1" Female NPT inlet connection and a half union 3/4" male NPT discharge fitting. If the home water supply is 1" use a 3/4"x 1" female NPT adapter to attach the half union discharge fitting to the home's plumbing. To avoid a prolonged period for the home to be without water, source these items prior to proceeding with the installation.

1. Mount the pump to a firm base
2. Shut off the main water supply valve to the home
3. Open a faucet to relieve the pressure on the system. Close the faucet
4. Drain the system by opening the highest faucet in the home to allow air to enter and the lowest faucet in the home to allow water to drain.
5. If the installation is in a basement below grade separate your piping and use a bucket to drain the remaining water.
6. Close the faucets that were opened.
7. **"Caution"** Do not use flexible hoses to connect the pump to the home's plumbing. Use only ridged piping
8. Installing a full union on the inlet to the pump and shut off valves on the water supply line and the pump discharge will ease the installation and any future maintenance. Fig.1
9. When all piping has been connected and sealed, pressurize the system by opening the main water supply valve and check for leaks.
10. If a leak occurs shut off the main water supply valve, drain the system and repair the leak.
11. To clear air from the pump and the system open a faucet and allow water to flow until the stream becomes steady. Close the faucet.
12. Plug in the pump. The pump will run for a short time and then stop. The system is now fully pressurized. Recheck for leaks and correct as necessary.



To ease assembly and maintenance install with a full union and shut off valves on the water supply and discharge to the home

## Operation

### Start Up

- When the pump is plugged in the green "Power on" light is illuminated.
- When the pump runs the yellow "Pump on" light is illuminated
- If the red "Failure" light is illuminated, open a faucet and press and hold the "Restart" button until the red light goes out. Close the faucet.
- The pump/control will now activate whenever water is drawn.
- If the "Failure" light is illuminated it indicates the pump is running dry. Check for blockage in the supply line to the pump. After the blockage has been cleared press and hold the reset button with a faucet open until the "Failure" light goes out.

Fig. 1