

O² Hydro Well System

Installation, Use & Care Guide



Parts & Material Included



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|--------------------------------|-------------------------------------|----------------------------------|
| 1. Funnel | 11. Drain Line | 21. Air Head |
| 2. Media Tank Distributer Tube | 12. Air Release | 22. Drain Fitting |
| 3. Air Tank Distributer Tube | 13. Air Pump Parts | 23. John Guest Fitting |
| 4. Inner Connect Assembly | 14. Canister Wall Mount Lag Bolts | 24. Long Blue Tube |
| 5. Air Release Tube | 15. Main Control Head | 25. Silicon |
| 6. Post Filter Canister | 16. Air Tank Pipe Assembly | 26. Teflon® Tape |
| 7. Post Filter | 17. Flow Switch Pipe | 27. Air Pump |
| 8. Post Filter Bracket | 18. Flow Switch Ball Valve Assembly | 28. Air Pump Wall Bracket |
| 9. Canister Wrench | 19. Male Adapters | 29. Air Pump Wall Bracket Screws |
| 10. Mass Transfer Tube | 20. Bypass | 30. Flow Switch |

Tools & Parts Needed

- Adjustable Wrench
- PVC Glue (included)
- Phillips Screwdriver
- 1/4" Nut Driver
- 3/8" Nut Driver
- 1/4" Allen Wrench
- Adapter from home pipe size to 1" PVC if needed

Installation Requirements

- Properly tighten all fittings to ensure a leak-free assembly.
- The system should be located after the connection to the outside hose bibs, sprinkler system(s), and/or irrigation line(s). These lines should be left untreated.
- Install in a location that is not susceptible to freezing temperatures as damage to the equipment could occur. Do not install where there is exposure from UV lights.
- Install away from direct sunlight as prolonged exposure to light can weaken plastic components.
- Wall brackets need to be mounted to a solid surface using the wall bracket screws and lag bolts.
- 11" clear space between the wall and the wall side of the tanks is needed to allow space for connections included.

Assembly Instructions

Begin assembling the Air Pump by removing the three fittings from the air pump using a 1/4" Allen Wrench (See Figure 1). Tape the male threads using Teflon tape. 4 to 5 wraps clockwise covering the threads is sufficient. Continue to tape all male threads. Attach the pressure gauge to the Air Pump. Attach the pressure adjustment. Attach the check valve with arrow pointing away from Air Pump. Attach the hose attachment. (See Figures 2 and 4.) Find a place to mount the Air Pump Wall Bracket to the wall near an outlet. Put the Wall Bracket Screws leaving several threads unscrewed. Thread the three Air Pump Feet to the underside of the Air Pump. Remove the washers and nuts from each of the three Air Pump Feet. Attach the Air Pump Wall Bracket to the Air Pump using the nuts and washers. (See Figure 3). Mount the Air Pump Wall Bracket with the Air Pump attached to the wall where your screws are in place. Tighten screws.



Figure 1



Figure 2



Figure 3



Figure 4

Begin to assemble the Air Tank by placing two taped Male Adapters onto the Air Head (See Figure 5). Coat the black o-ring on the Air Head with Silicon. Tape the Air Release threads and attach it to top of Air Head (See Figure 7). Insert Air Tank Distributer Tube and Air Release Tube into the Air Head by pushing them into place (See Figure 6). Place entire Air Head Assembly into the tank and thread into place. Attach the Air Tank Pipe Assembly to the Air Head inlet using PVC glue (See Figure 7). Thread the John Guest Fitting into the Mass Transfer Tube (See Figure 8). Use a wrench to tighten. Thread long end of taped Mass Transfer Tube into Air Tank Pipe Assembly with John Guest fitting facing away from the tank. The Mass Transfer Tube is the inlet source to the system. Insert Short Blue Tube into John Guest Fitting by pushing into place. Push on the Check Valve with arrow pointing towards the Mass Transfer Tube (See Figure 8). Push the Long Blue Tube into the Check Valve. Push the other end of the Long Blue Tube into the Hose Attachment on the Air Pump.



Figure 5



Figure 6



Figure 7



Figure 8

Begin to assemble the Media Tank by placing the Media Tank Distributer Tube into the tank with the basket down. Leave the cap on and put the funnel in place (See Figure 9). Pour in your Gravel Package first and then add the Media Packages. Remove funnel, wipe the mouth of the Media Tank, and remove the Distributer Tube cap. Coat the outside of the Media Tank Distributer Tube with silicon from top edge and down 1". Coat the inlet, outlet, and tank o-rings on the Main Control Head with Silicon. Attach taped drain fitting to the bottom of the Main Control Head (See Figure 10). Thread taped Male Adapters to the Bypass inlet and outlet (See Figure 10). Using a 1/4" Nut Driver, loosen screws of container clips on Main Control Head. Using container clips, attach Bypass to the Main Control Head and tighten back into place (See Figure 11). Line up Main Control Head with the Distributer Tube and thread into the tank. Line up the tanks side by side. Use PVC glue to place the Inner Connect Pipe Assembly into Main Control Head Bypass and Air Tank Head (See Figure 12).



Figure 9



Figure 10



Figure 11



Figure 12

Begin to assemble the Post Filter by removing the Canister Head. Remove the filter, remove the plastic from the filter, and replace the filter back into the Canister. Thread taped Male Adapters into the Canister head (See Figure 13). Ensure that they are tightened to prevent any leaks. Using 4 of the lag bolts, attach the Canister Head to the Post Filter Bracket keeping the red pressure release button on the right which is the inlet side. (See Figure 13). The Flow Switch has an inlet and an outlet. Glue the Flow Switch Pipe to the inlet of the Flow Switch. Glue the other end of the Flow Switch Pipe to the Bypass outlet on the Media Tank. Glue the Flow Switch Ball Valve Assembly to the Flow Switch Outlet (See Figure 14). Line up the Post Filter Bracket attached to its Canister Head with the outlet of the Ball Valve Assembly and mount to the wall using remaining four lag bolts. Thread Canister into its head and hand tighten. Use the Canister Wrench to give an additional quarter turn. Glue Canister inlet to the Flow Switch Ball Valve Assembly. Connect the drain line to the drain fitting using clamp provided and a 3/8" Nut Driver (See Figure 15). Run other end of drain line into your drain (See Figure 16).

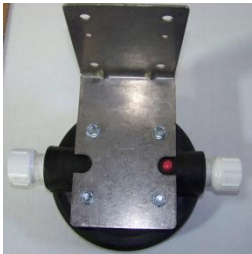


Figure 13



Figure 14

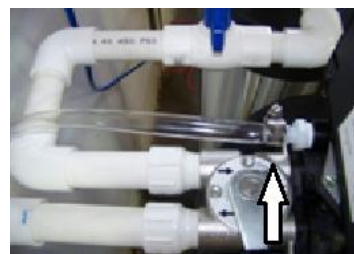


Figure 15

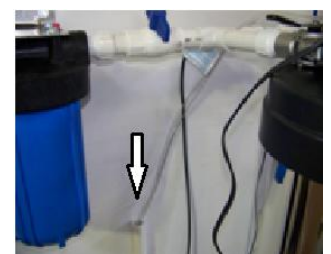


Figure 16

Remove face of Flow Switch Control Box with Phillips Screwdriver. Mount to the wall between the Air Pump and your electrical outlet and replace the face (See Figure 17).

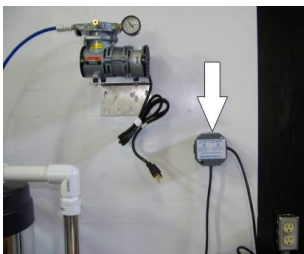


Figure 17



Figure 18



Figure 19



Figure 20

Connection Instructions

1. Installation must comply with any existing state or local plumbing codes.
2. Close all Ball Valves. Note: An open valve is in line with the pipe. A closed valve is perpendicular to the pipe.
3. Turn off your water supply. Turn off power to well. Turn off your water heater.
4. Release water pressure by opening a faucet.
5. Attach water source to inlet of the Mass Transfer Tube. Existing Inlet pipe size smaller or greater than 1” will require an additional adapter.
6. Attach the outlet of the Post Filter to your home plumbing. Existing Outlet pipe size smaller or greater than 1” will require an additional adapter.
7. Plug in Air Pump into Flow Switch.
8. Plug Flow Switch into wall outlet.
9. Turn the power to the well on.
10. Turn water on slowly. This will allow air to escape from the Air Tank. **FILL SLOWLY UNTIL AIR STOPS ESCAPING. DO NOT PROCEED UNTIL ALL AIR ESCAPES.**
11. Plug in Main Control Head into wall outlet.
12. Set time of day on Main Control Head. Refer to Owner’s Manual for instructions.
13. Open Inner Connect Valve part way to allow water to slowly fill the Media Tank (See Figure 18).
14. While tank is filling, turn Main Control Head to “BACK-WASH” by turning the main knob (See Figure 19). This will allow air to escape from Media Tank. Allow to fill fully. You will see clear water in the drain line.
15. Cycle Main Control Head knob clockwise to “IN SERV.”
16. Open Inner Connect Valve all the way.
17. Cycle Main Control Head knob once again clockwise to “BACK-WASH”. Let it run for a few minutes to ensure drain line is running clear.
18. Cycle Main Control Head again to “IN SERV.”
19. Turn Bypass valve with the arrow pointing to “SERVICE” (See Figure 20).
20. Open the Flow Switch Ball Valve slowly. At this time you will hear your air pump start. It has been activated by the Flow Switch. The pressure can be adjusted by using the Brass Control Valve located in the center of the Air Pump (See Figure 4). Refer to the Air Pump Instruction manual for your proper pressure setting.
21. Open outlet from the Post Filter to your home. Let water run to allow air to escape from lines.
22. Turn your water heater on and close your open faucet.

Troubleshooting Guide

- If water leaks at fittings: Tighten slightly more until leak stops.
- If leaks persist: Shut off water at the house water supply shutoff valve, remove threaded fittings, reapply Teflon® tape in a clockwise direction and thread back on.
- If there are leaks around Canister Head: Shut off water at the house water supply shutoff valve. Unscrew the canister from the head, and check the o-ring to make sure its seated flat along the edge of the canister. Re-lube the o-ring, and hand tighten the canister. If the drip persists, use the provided Canister Wrench to tighten slightly. Make sure to check the o-ring for cuts, burrs, and any other imperfections. Note: make sure the entire surface of the o-ring is well lubed. This is key to the water tight integrity of the Post Filter Canister.
- If your water pressure is low, or constantly dropping: This indicates that the filters need to be replaced.
- If you have further questions after thoroughly reading this guide, refer to owner’s manuals for Main Control Head and Air Pump.

Note: Fill out the enclosed Warranty Card and mail. Your serial number is located on the underside of the Main Control Head. Make appropriate entries on the Maintenance Card provided (ie. date installed and dates filters are changed). Keep attached to the system and updated when needed.

The HydroCare Service Department can be reached Monday – Friday, from 9am – 4pm PST at 253-887-7625 or at service@hydrocareusa.com.

