

FLUIDART

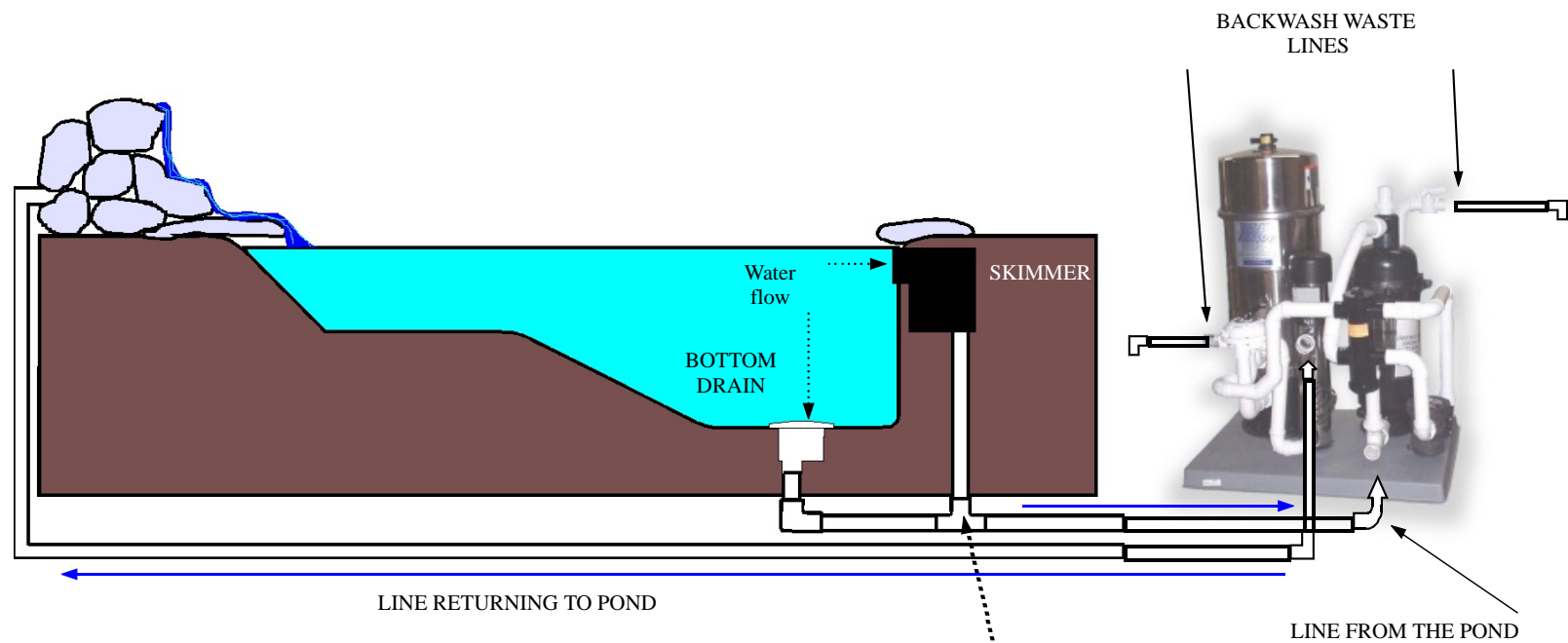
TECHNOLOGIES

ULTIMATE SYSTEM



INSTRUCTION MANUAL

Typical installation of FluidArt Ultimate System



THIS T MAY BE SUBSTITUTED FOR A 3 WAY MIXING VALVE AND MOVED CLOSER TO THE EQUIPMENT PAD. THIS WILL ENABLE YOU TO VARY THE AMOUNT OF FLOW COMING FROM THE BOTTOM DRAIN AND SKIMMER.

Getting to know your **ULTIMATE SYSTEM**

*Your **ULTIMATE SYSTEM** is made up of different filtration components and each one has been carefully selected to be the finest made to insure that you do indeed have an **ULTIMATE SYSTEM**. Since **ULTIMATE SYSTEMS** come in a variety of sizes and components and by special order configuration your system may not be exactly as the one shown, however your system will include a **FLU I-DART FILTER**, **TURBOVORTEX**, **PUMP** and **UV-1 stainless steel UV**. Your system was carefully chosen to fit your pond size, fish load and your personal preferences. With your system you also received separate manuals for each system component. Those manuals will include instructions specific to the particular filter that you now own. Please consult those manuals for specific filtration or component instructions.*



Your system includes a UV of the UV-1 series. This insures clear water free of green algae and helps to control harmful pathogens.



*The **TURBOVORTEX** is a solids separator that holds solids until backwashed to waste. This improves filter efficiency and lowers backwashing frequency.*



*Your filter is the main part of your **ULTIMATE SYSTEM**. This is where nitrification occurs. Shown is the **FLUIDBEAD FILTER**.*

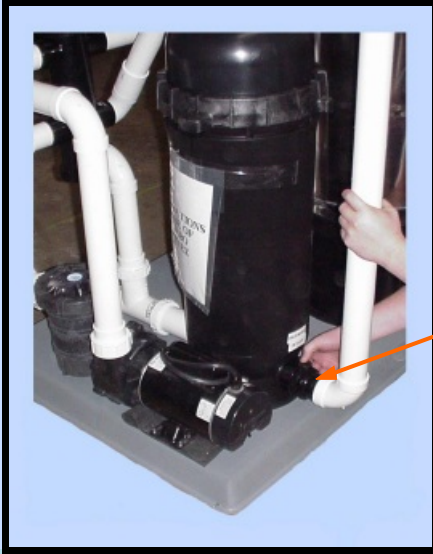


*Shown is the **FLUIDBEAD ULTIMATE SYSTEM***



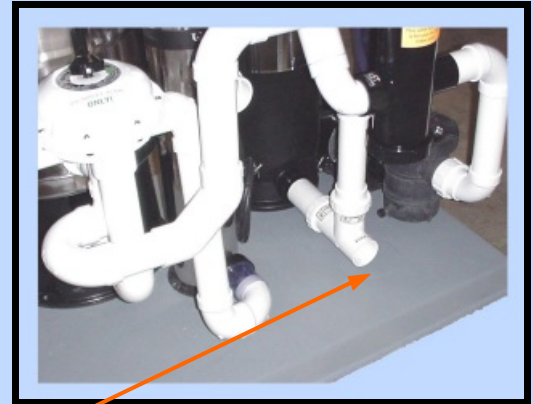
*The pump is the heart of **ULTIMATE SYSTEM** and was chosen to be economical to run and to provide you dependable service.*

SETTING UP YOUR ULTIMATE SYSTEM

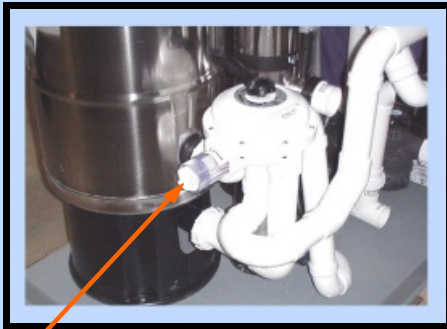


1. After finding a suitable, level place to set your ULTIMATE SYSTEM the first thing we will do is connect the waste line from the TURBOVORTEX to wherever you're going to discard the backwash water.

Attach the TURBOVORTEX waste pipe by hand tightening the black nut to the black nipple on the waste pipe. The waste pipe must rise to this height for proper backwashing, but may be returned to ground level or below for backwash water elimination.



4. This is the inlet where you will connect the line from the pond such as the bottom drain and skimmer. You may bring bottom drain and skimmer line together prior to the inlet to TURBOVORTEX via a 3-way valve and you will be able to vary the flow between skimmer and bottom drain if you desire. It is recommended that you use a union when connecting to the inlet of the TURBOVORTEX.



2. The next thing to do is hookup the waste line from the filter. You may connect the waste line from the backwash valve to the same line the TURBOVORTEX uses for its backwash. A clear site glass is included. Make sure it is properly cemented into the valve or you may move the sight glass to a more convenient location.



3. Now we hook up the line back to the pond. You will make this connection at the UV outlet. You may install a 3-way valve here to divert the flow to a waterfall/venturi, etc.



5. It's now time to install the baffle balls into the TURBOVORTEX. Open the TURBO by spinning the locking ring counter clock wise, then lift the dome up. Be sure to fill the TURBO half full of water before emptying the baffle balls into the TURBO. NOTE: ONLY INSTALL 1 BAG OF BAFFLE BALLS-SEE TURBOVORTEX INSTRUCTIONS. Re-install the dome and locking ring. The locking ring may not turn far enough to "lock" in to place. This is normal.

QUESTIONS?
405-843-9060

SETTING UP YOUR ULTIMATE SYSTEM



6. *Installations of the beads is the next step. Consult the filtration part of this manual for individual filter instructions.*



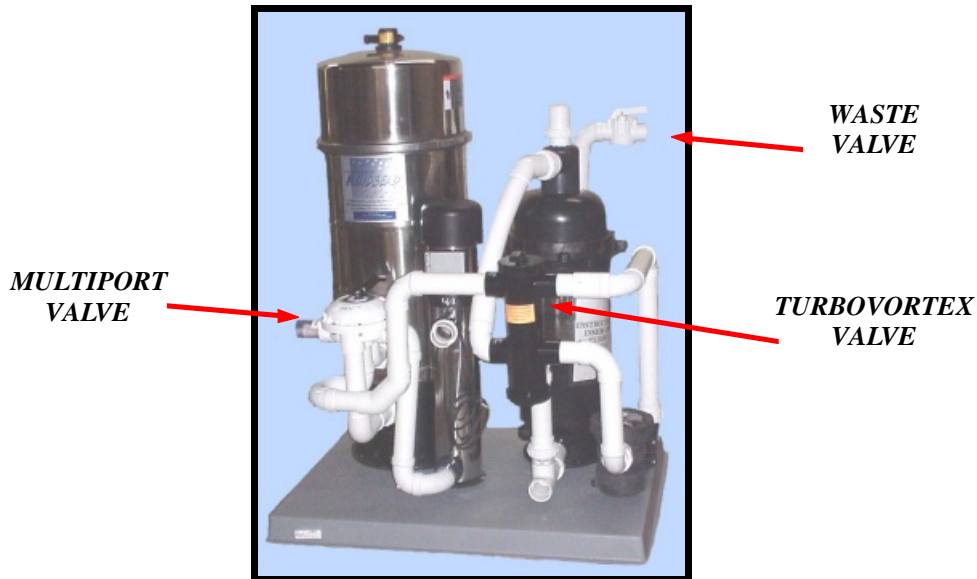
7. *Priming the system is the next step. Prime the system by filling the pump strainer basket and then fill the TURBO by opening the priming cap and filling the TURBO to the top with a hose, bucket, etc. Note: occasionally depending on system location you may need to put the filter multiport valve on "closed" until TURBO is full. Then move multiport back to "filter" and start pump in normal fashion. On some occasions you may have to perform this operation more than once on new start ups. If system is hard to prime it may be because there needs to be a swing check located below water level. Refer to TURBOVORTEX SECTION.*

MAINTAINING YOUR ULTIMATE SYSTEM

ALL FILTRATION SYSTEMS NEED MAINTAINANCE, WHEN IT'S TIME TO SERVICE YOURS YOU WILL APPRECIATE THE PLANNING AND DESIGN THAT HAS GONE INTO YOUR ULTIMATE SYSTEM.

PLEASE CONSULT THE INDIVIDUAL MANUALS FOR INSTRUCTIONS.

BACKWASHING THE ULTIMATE SYSTEM



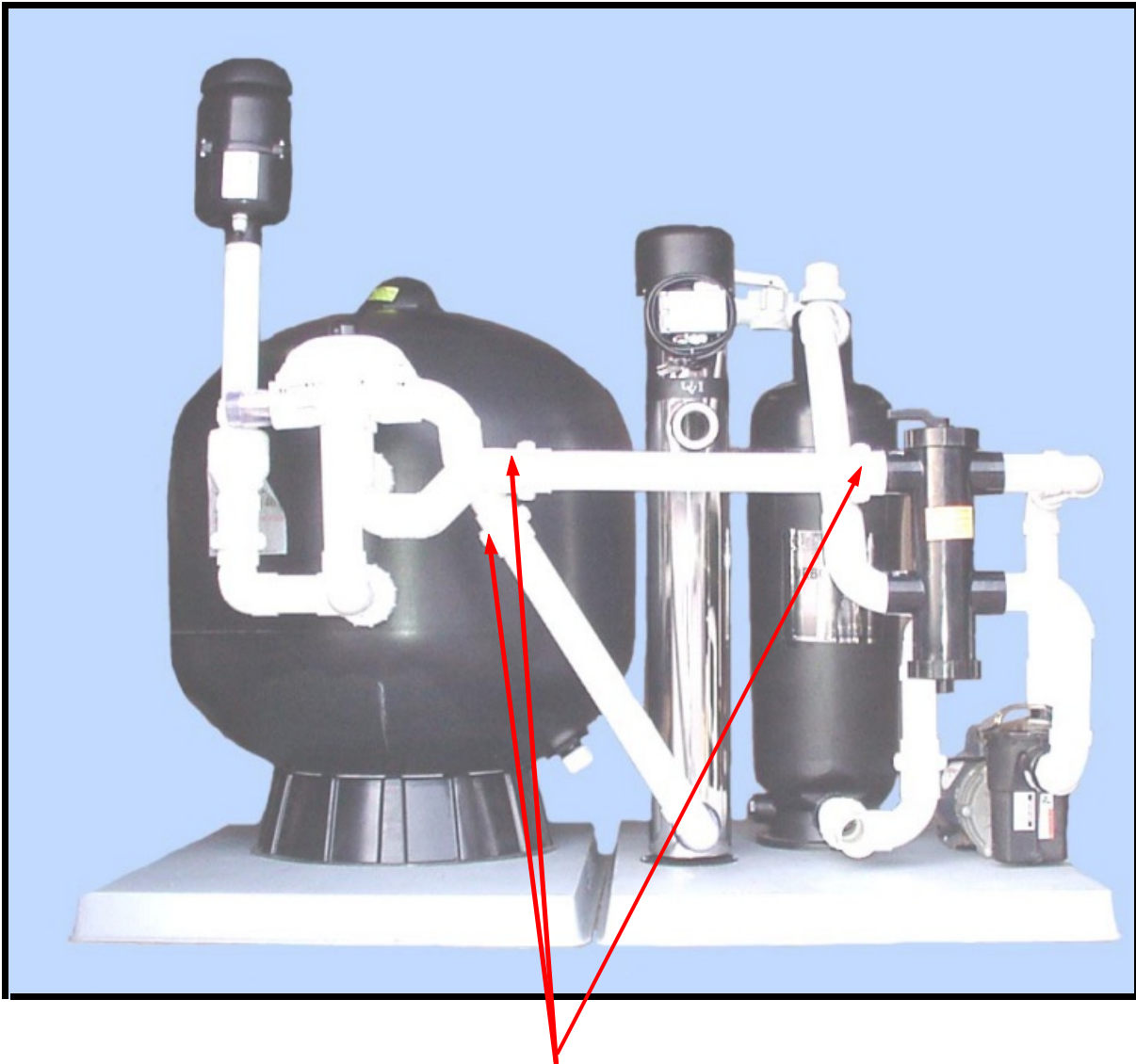
Backwashing is easily accomplished with these simple guidelines:

1. *Remember before moving the TURBOVORTEX valve or the FILTER valve to any setting the pump must be turned off.*
2. *Always backwash the TURBOVORTEX before the FILTER. Do this by turning off the pump. Move waste valve to "open" position and backwash valve to "backwash" position.*
3. *Restart pump and run for about 1 minute.*
4. *Stop pump and reset valves to original position.*
5. *With pump still off move filter "MULTIPORT" valve to "backwash" and restart pump for 1 to 3 minutes until water is clear.*
6. *Stop pump. Move "MULTIPORT" valve to "rinse" for a few seconds. This will prevent any debris from going back to the pond.*
7. *Place valve in "FILTER" position and restart pump.*
8. *That's it, your done.*

IF YOU HAVE A **CHALLENGER FILTER** YOUR FILTER CONTAINS THE **HYDRATHRUST BEAD** AGITATION SYSTEM (BLOWER) AND YOU WILL NEED TO CONSULT YOUR FILTER MANUAL FOR BACKWASH INSTRUCTIONS

***QUESTIONS?
WE'RE HERE TO HELP!
405-843-9060***

ULTIMATE CHALLENGER 15,20 ADDITIONAL INSTRUCTIONS



The CHALLENGER 15, 20 ULTIMATE SYSTEMS which use the CHALLENGER 100 OR 140 require the use of 2 pads to set the system on. Still everything is preplumbed and all that is necessary to hook the systems together is the connections shown above which are unions. Simply screw the unions together in addition to the regular instructions in this manual.

FILTER BACKWASH INSTRUCTIONS WITH BLOWER

- 1. TURN OFF PUMP.**
- 2. MOVE MULTIPOINT VALVE TO BACKWASH POSITION AND TURN ON THE PUMP FOR 10-15 SECONDS. THIS DOES AN INITIAL BREAKUP OF THE BEADPACK. TURN THE PUMP OFF.**
- 3. MOVE THE MULTIPOINT VALVE TO RINSE . AIR WILL GO OUT OF THE FILTER TO WASTE AND A SMALL AMOUNT OF WATER WHEN THE BLOWER IS ACTIVATED.**
- 4. ACTIVATE THE BLOWER UNIT FOR 1 -2 MINUTES. DURING THIS TIME THE BEADS AND DEBRIS ARE DISPERSED THROUGHOUT THE INTERIOR OF THE FILTER. THIS BREAKS UP ALL TRAPPED PARTICLES IN THE FILTER ALLOWING THE DEBRIS TO BE EASILY BACKWASHED OUT TO WASTE.**
- 5. STOP PUMP AND MOVE THE MULTIPOINT VALVE TO FILTER POSITION AND RE-START PUMP FOR 10 -15 SECONDS TO EVACUATE THE AIR OUT OF THE TOP OF THE FILTER. ONE CAN TELL WHEN THE TANK IS FULL BY OPENING THE AIR VALVE AT THE TOP OF THE FILTER , WHEN WATER COMES OUT OF THE VALVE THE TANK IS FULL.**
- 6. TURN OFF PUMP. CLOSE AIR VALVE IMMEDIATELY.**
- 7. MOVE MULTIPOINT VALVE TO THE BACKWASH POSITION. TURN ON THE PUMP AND RUN UNTIL BACKWASH WATER RUNS CLEAR. TURN OFF THE PUMP.**
- 8. MOVE THE MULTIPOINT VALVE TO THE RINSE FEATURE. TURN THE PUMP ON AND RUN UNTIL THE WATER IS CLEAR. THIS TAKES ANY LEFT OVER DEBRIS THAT WOULD HAVE GONE BACK TO THE POND AND SENDS IT TO WASTE, INSTEAD OF SENDING A CLOUD OF GRUDGE BACK TO THE POND. TURN OFF PUMP.**
- 9. MOVE THE MULTIPOINT VALVE BACK TO THE FILTER POSITION AND RESTART THE PUMP. YOU ARE DONE.**