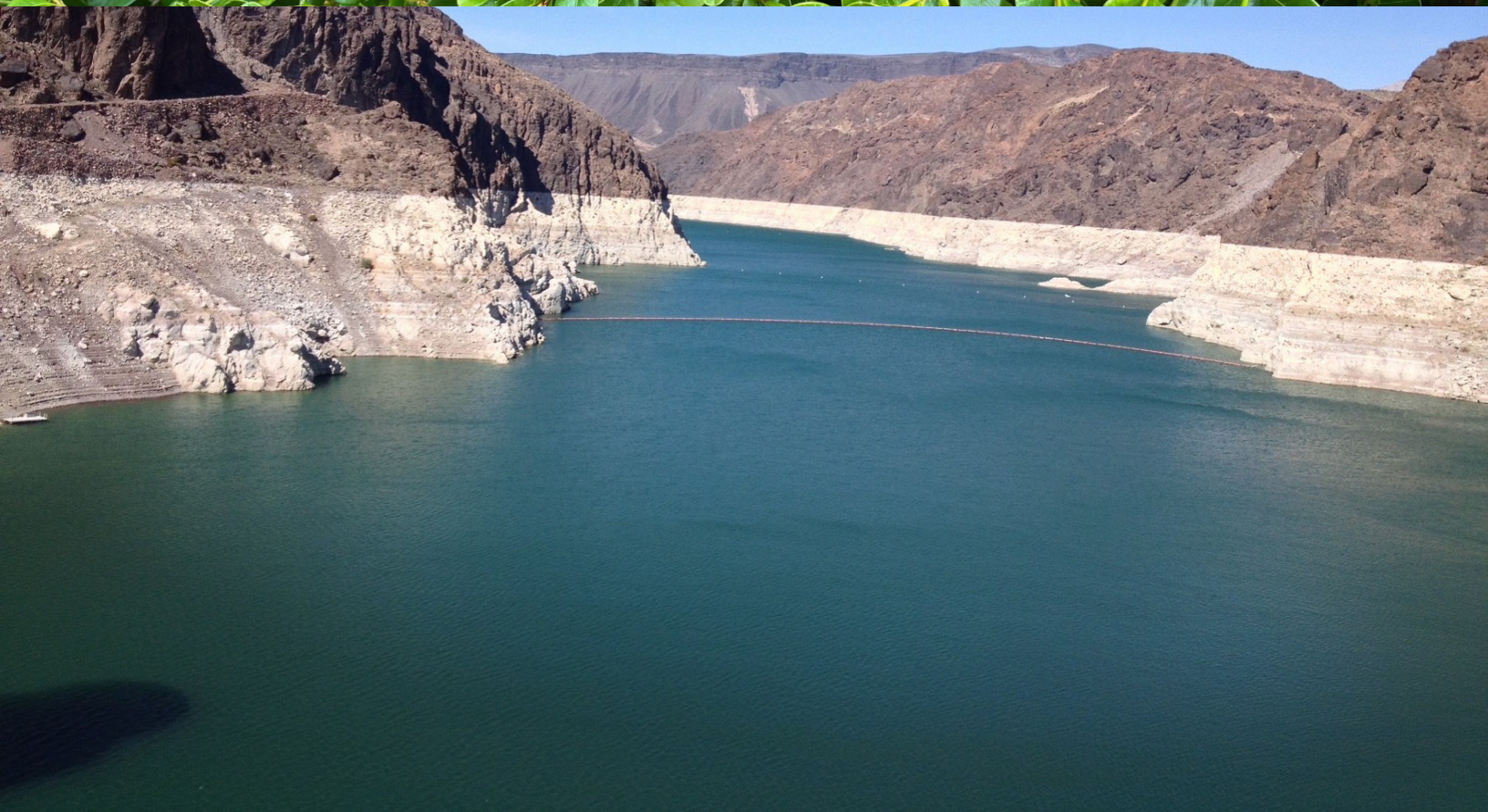




Installation, Service & Troubleshooting Manual

# GXL Series Greywater Irrigation Systems

[www.flotender.com](http://www.flotender.com)  
2025









# CONTENTS

Thank you for purchasing a Flotender™ Greywater Irrigation System. This installation manual will guide you through a Flotender™ GXL Series installation. Additional instructions are also included with individual kits and accessories. If you have any questions feel free to contact us at [support@filtrific.com](mailto:support@filtrific.com), or call (425) 643-2312.

## Table of Contents

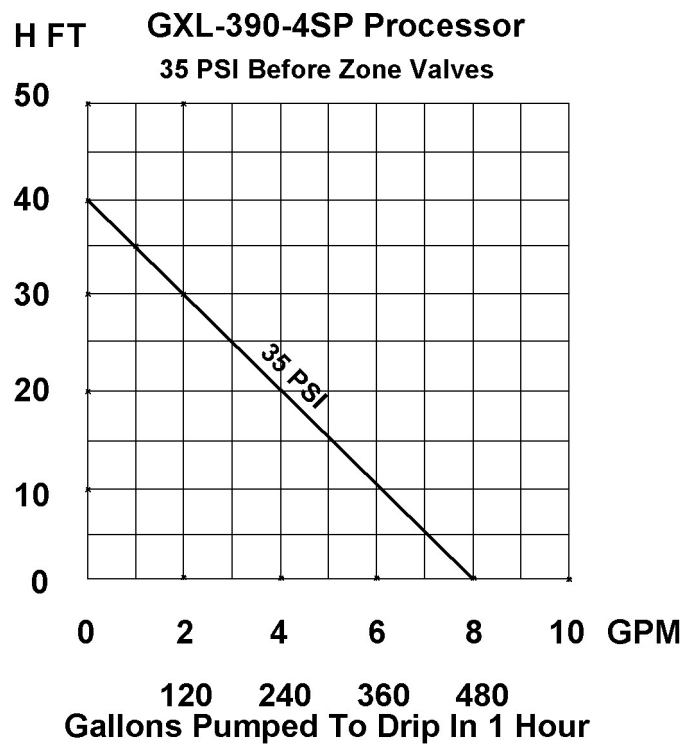
### INSTALLATION

Planning .....	02
Processor Installed In Landscape .....	04
Processor Installed In Building.....	12
Intake Elevations.....	16
Water Supplement Connections.....	18
Operating Controls.....	19
Programing.....	21

### OPERATION & SERVICE

Servicing Guidlines.....	22
Cleaning Primary Filters.....	23
Cleaning Secondary Filters.....	26
Processor Internal Access.....	29
Filter Wash Strainer.....	32
Troubleshooting.....	33
System Warranty.....	36





## Recomended Drip Line

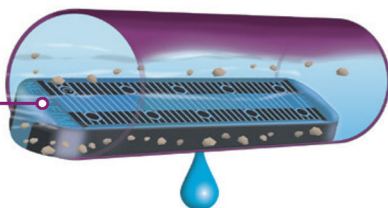
### Netafim™ Bioline®:

- Self Cleaning, pressure compensating
- Dripper flow rates: 0.4, 0.6, 0.9 GPH
- Pressure compensating range: 7 to 58 psi
- Built-in physical root barrier
- Anti-bacterial-impregnated drippers prevent buildup of microbial slime



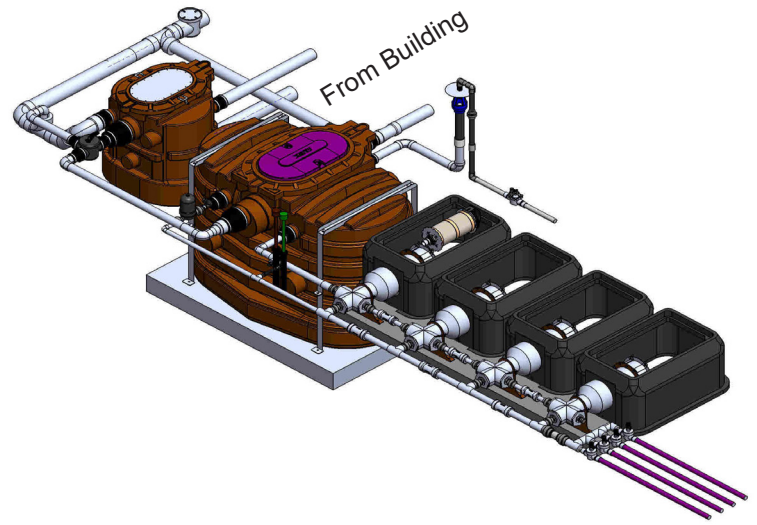
### CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest

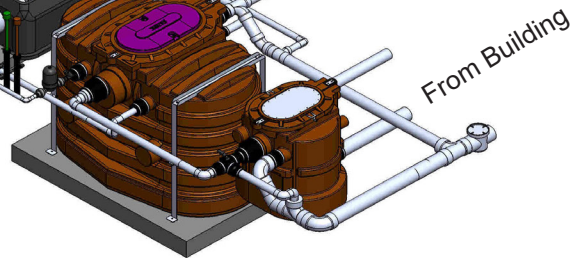




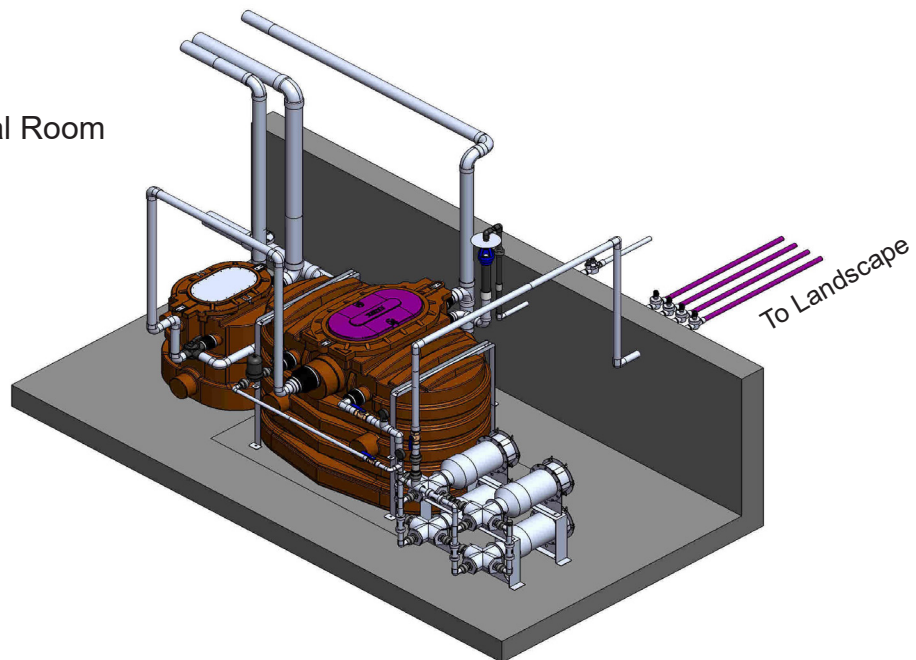
In Landscape  
Left Side  
Greywater Intake  
(Page 04)



In Landscape  
Right Side  
Greywater Intake  
(Page 08)



In Building Mechanical Room  
(Page 12)

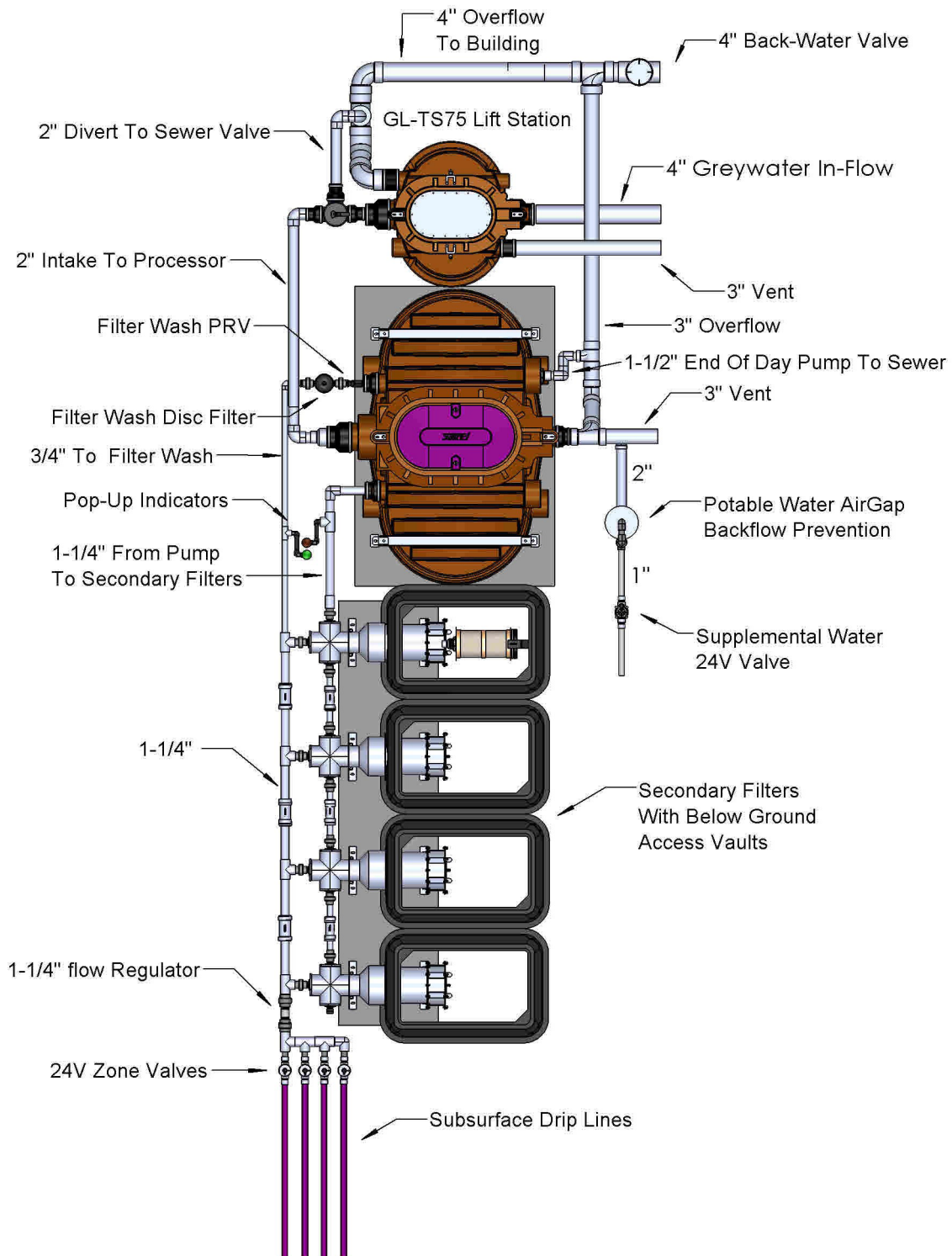




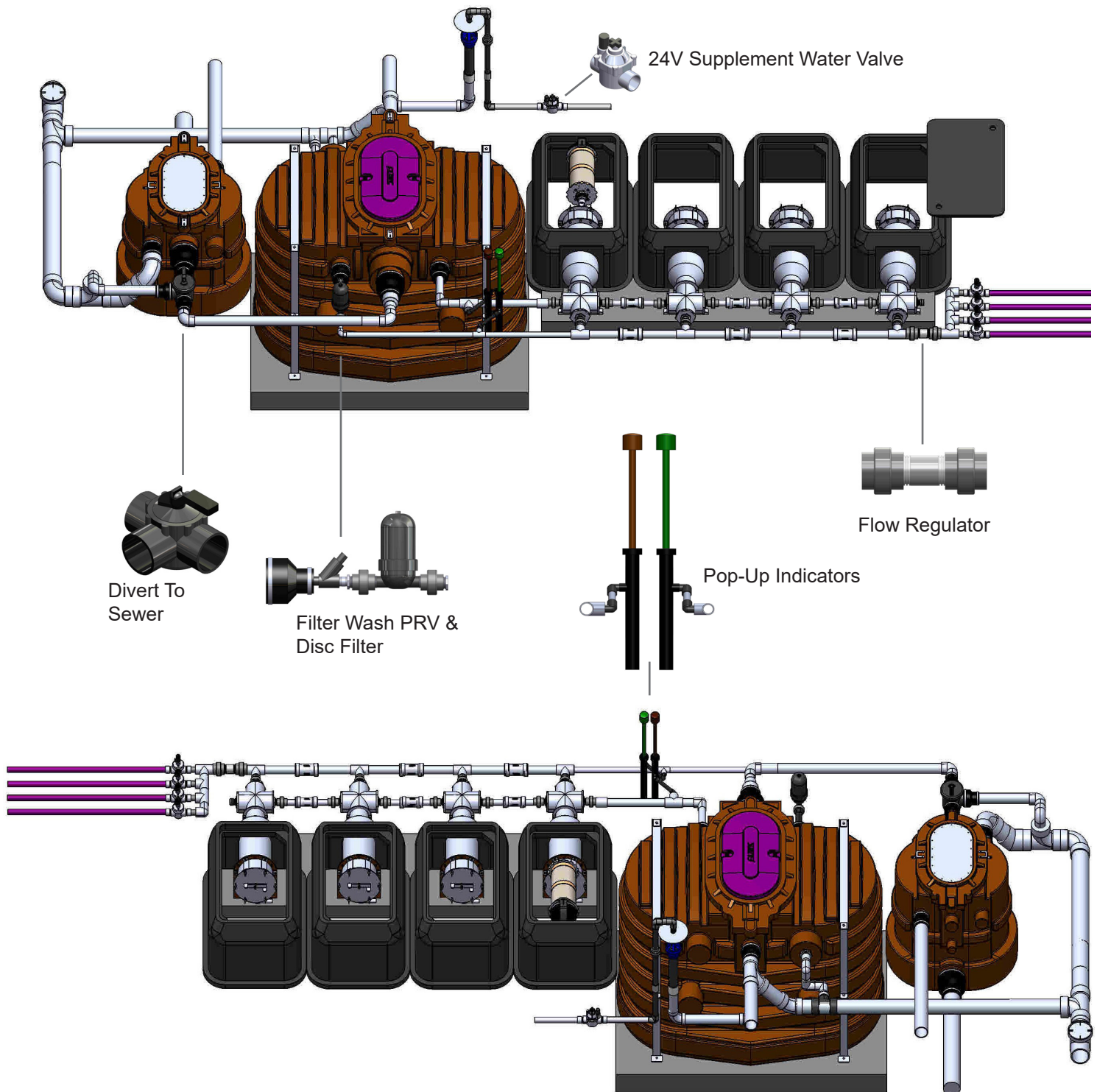
# PROCESSOR INSTALLED IN LANDSCAPE

## INSTALLATION

**GXL-4SP-MZP4 Processor With Left Side Lift Station**

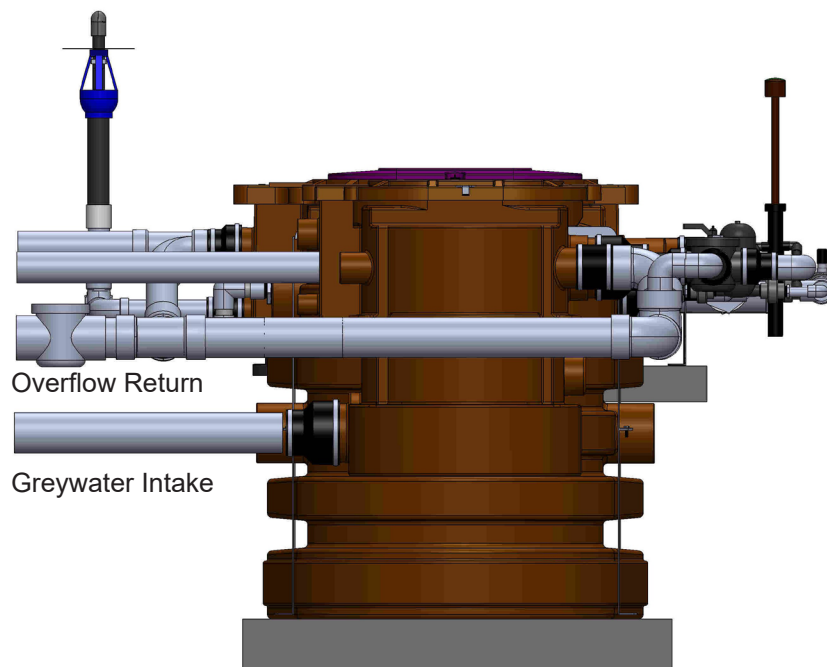
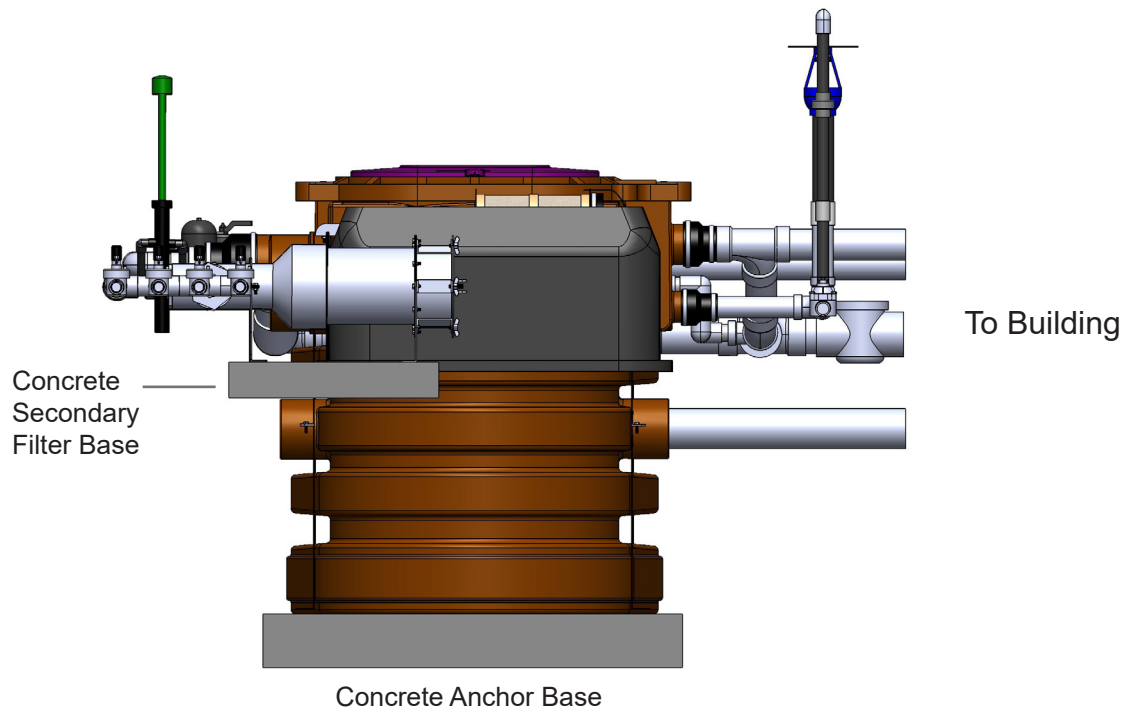




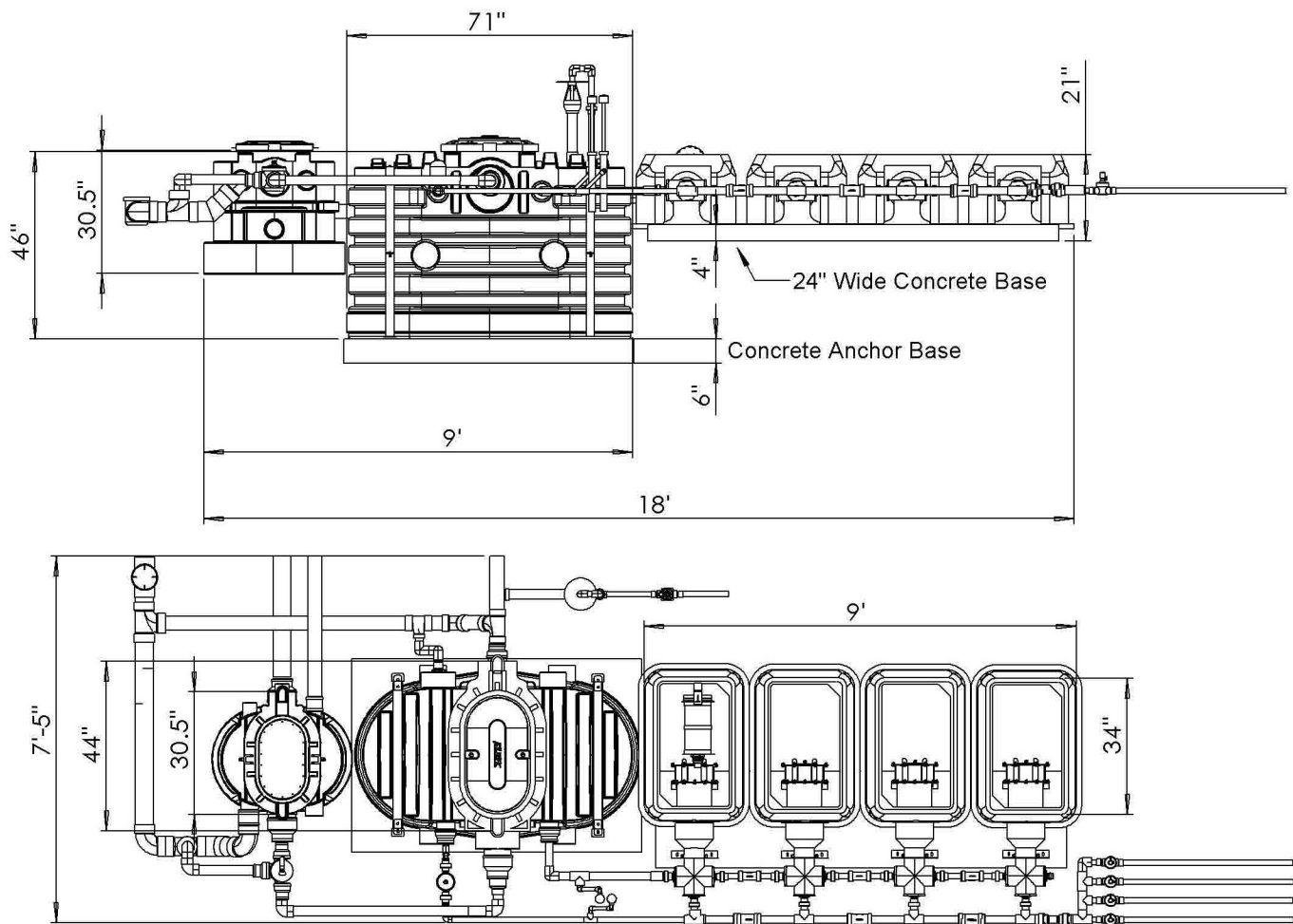


# PROCESSOR INSTALLED IN LANDSCAPE

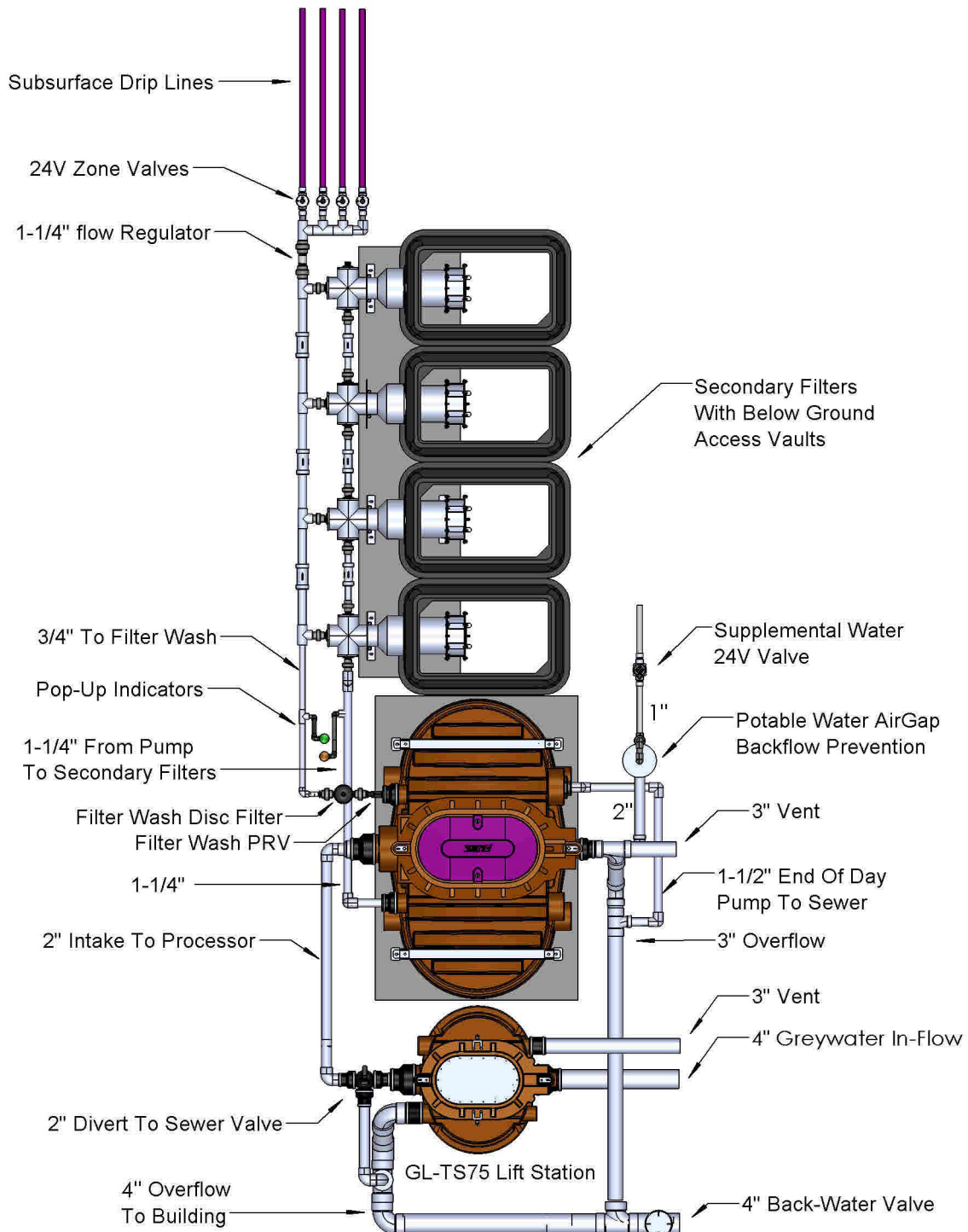
## INSTALLATION



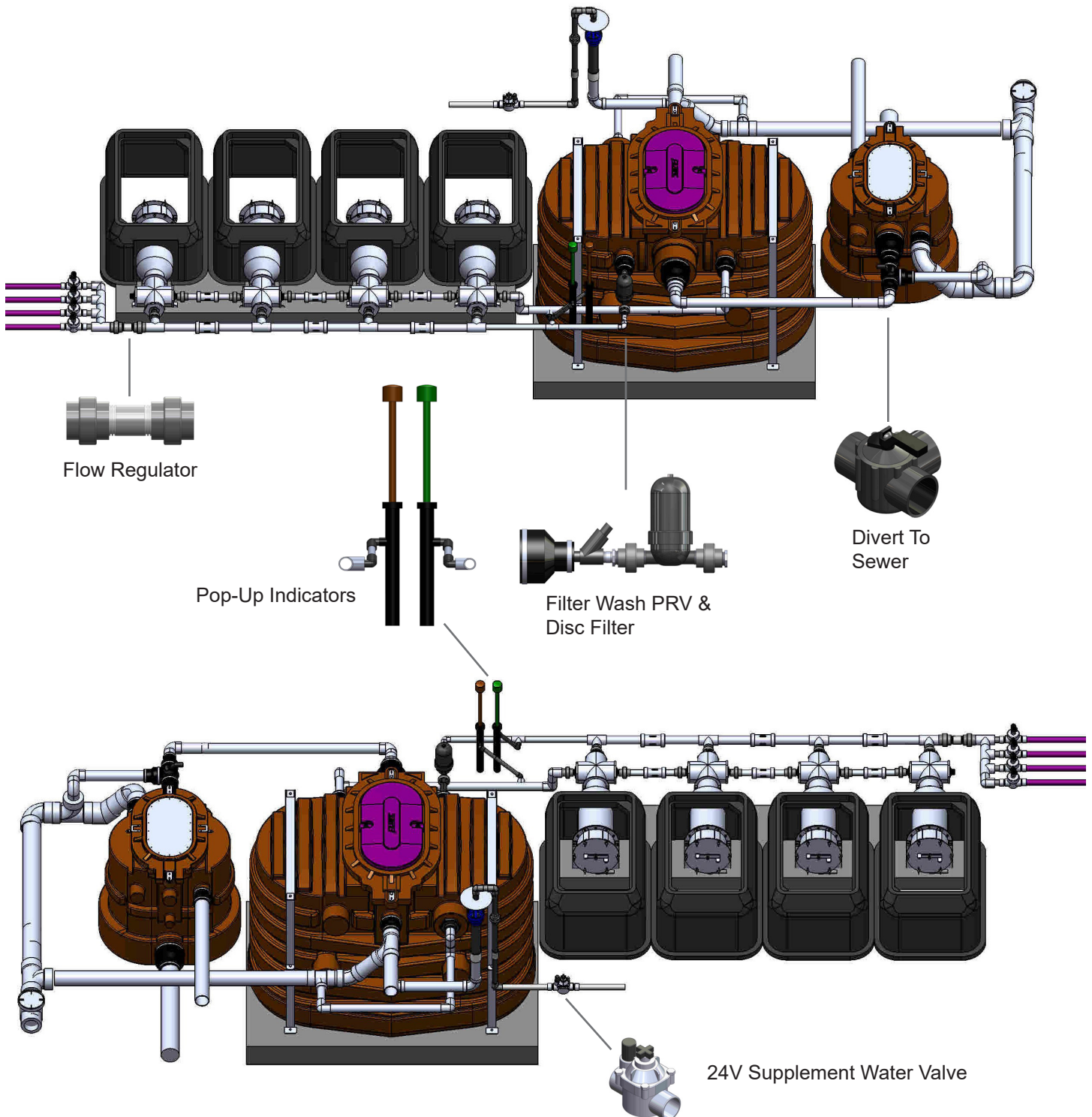




### GXL-4SP-MZP4 Processor With Right Side Lift Station

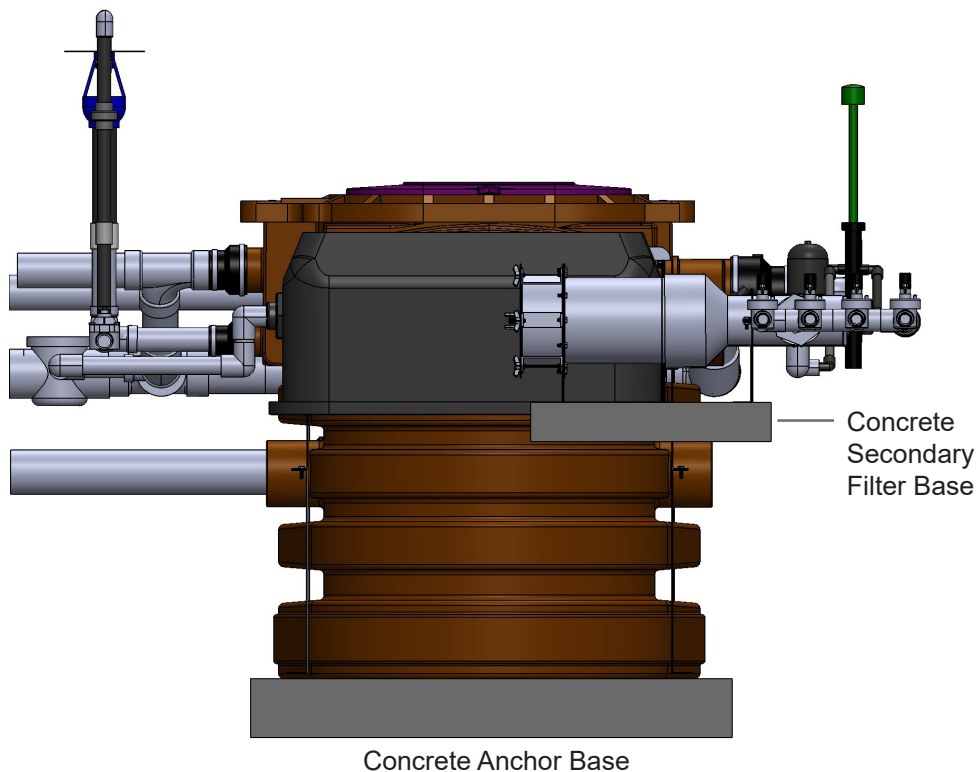
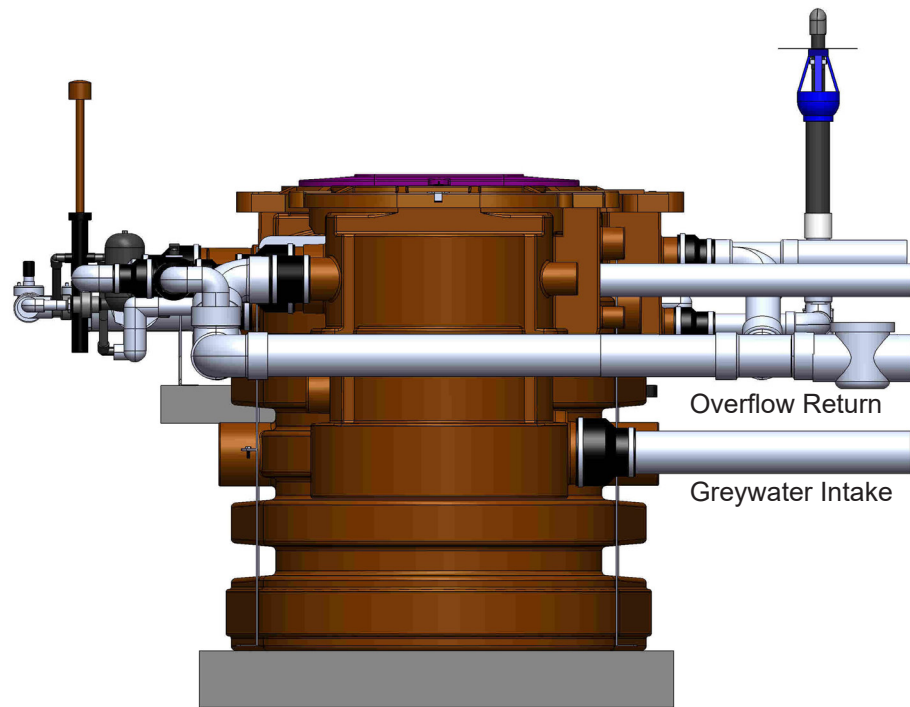




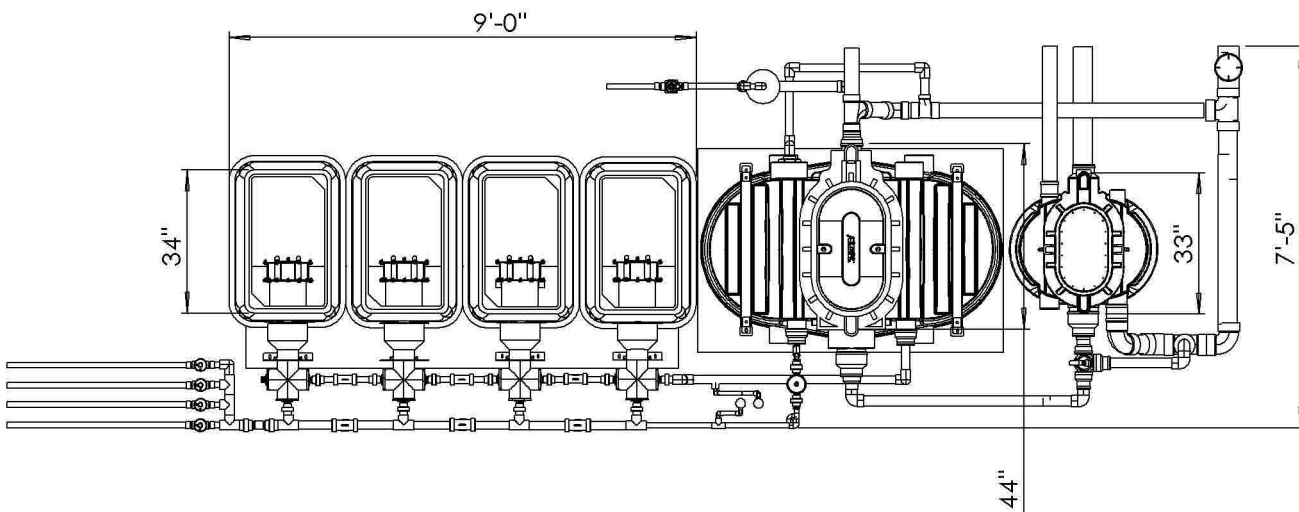
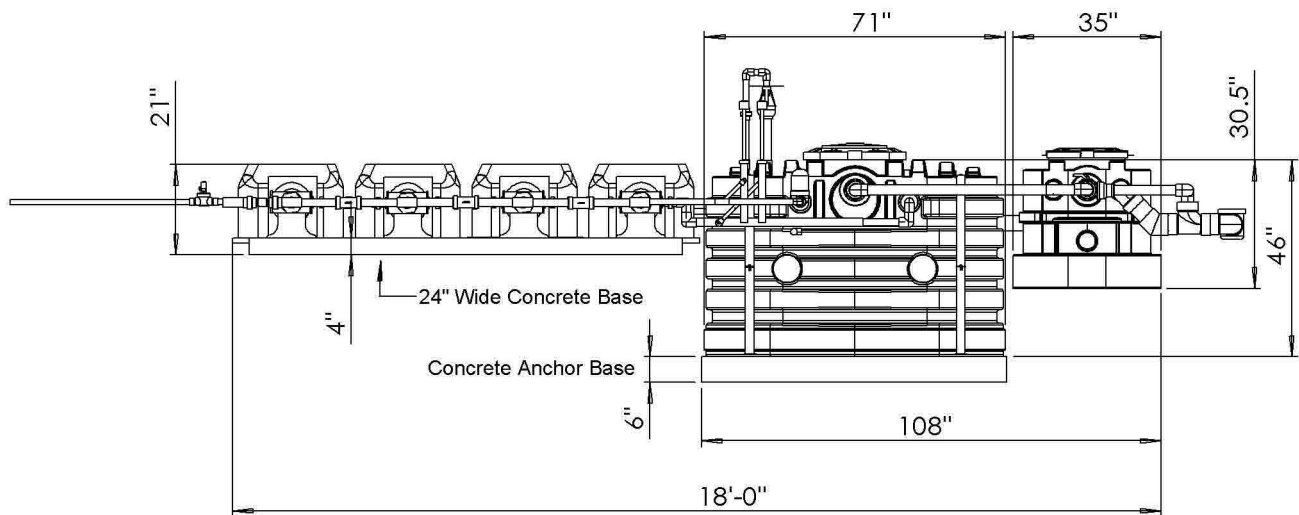


# PROCESSOR INSTALLED IN LANDSCAPE

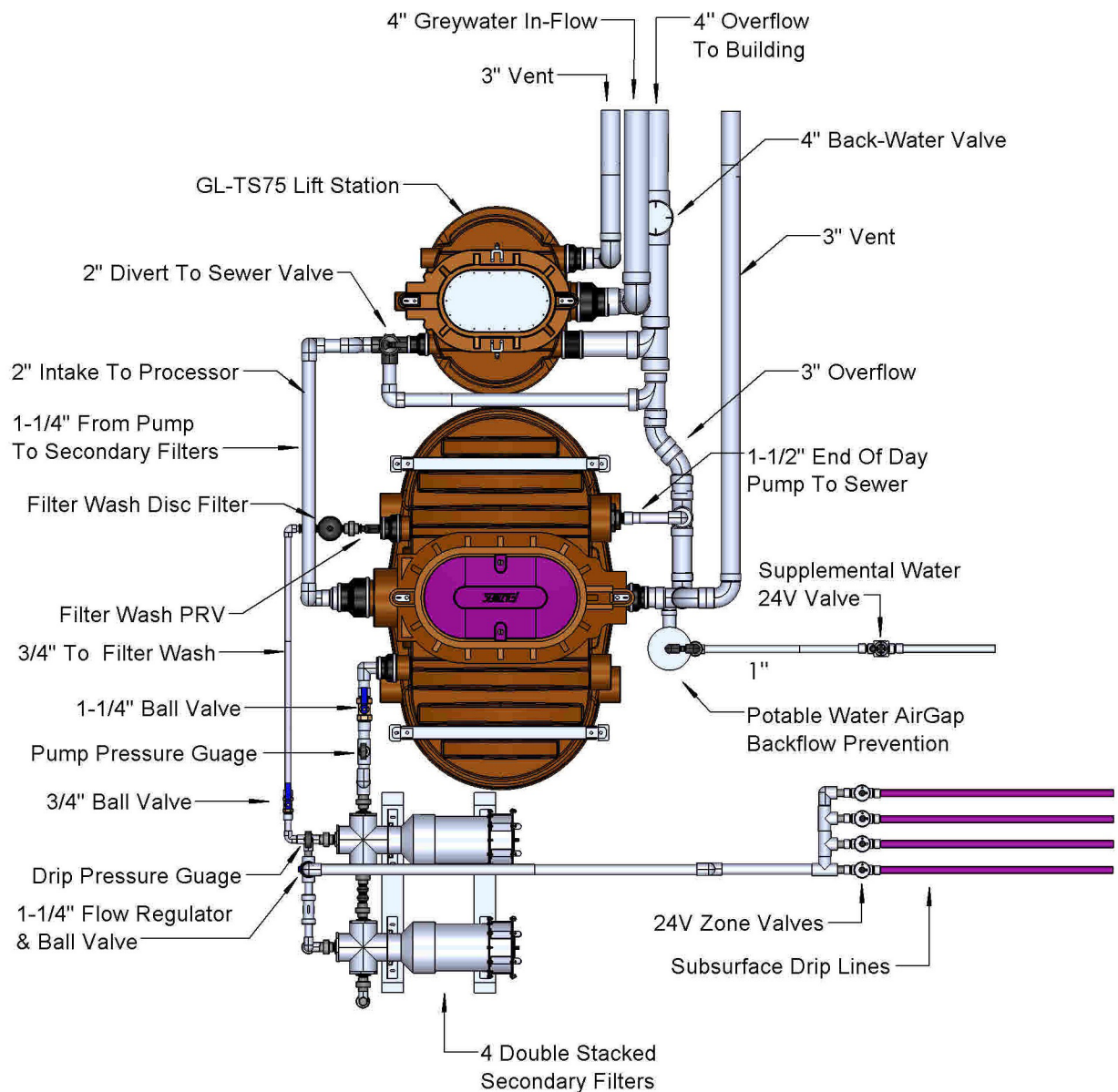
## INSTALLATION



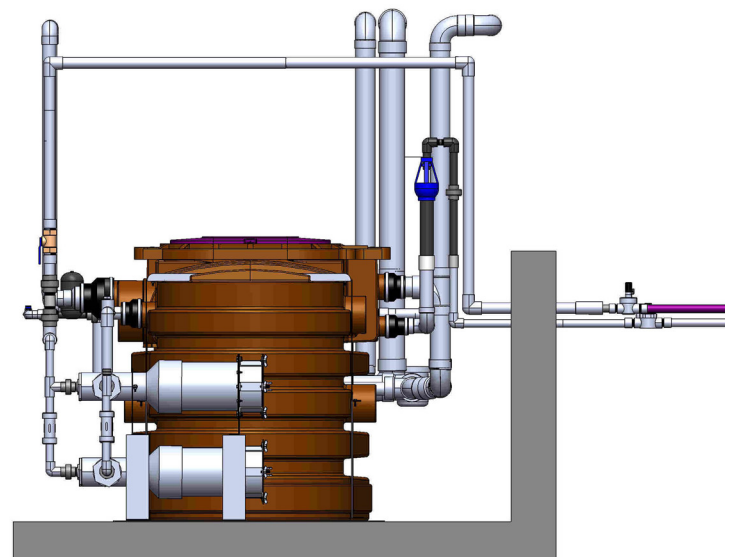
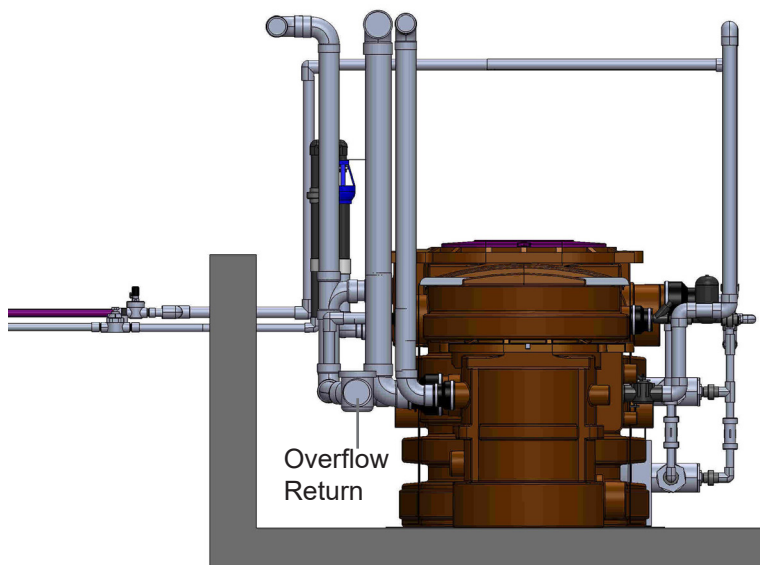
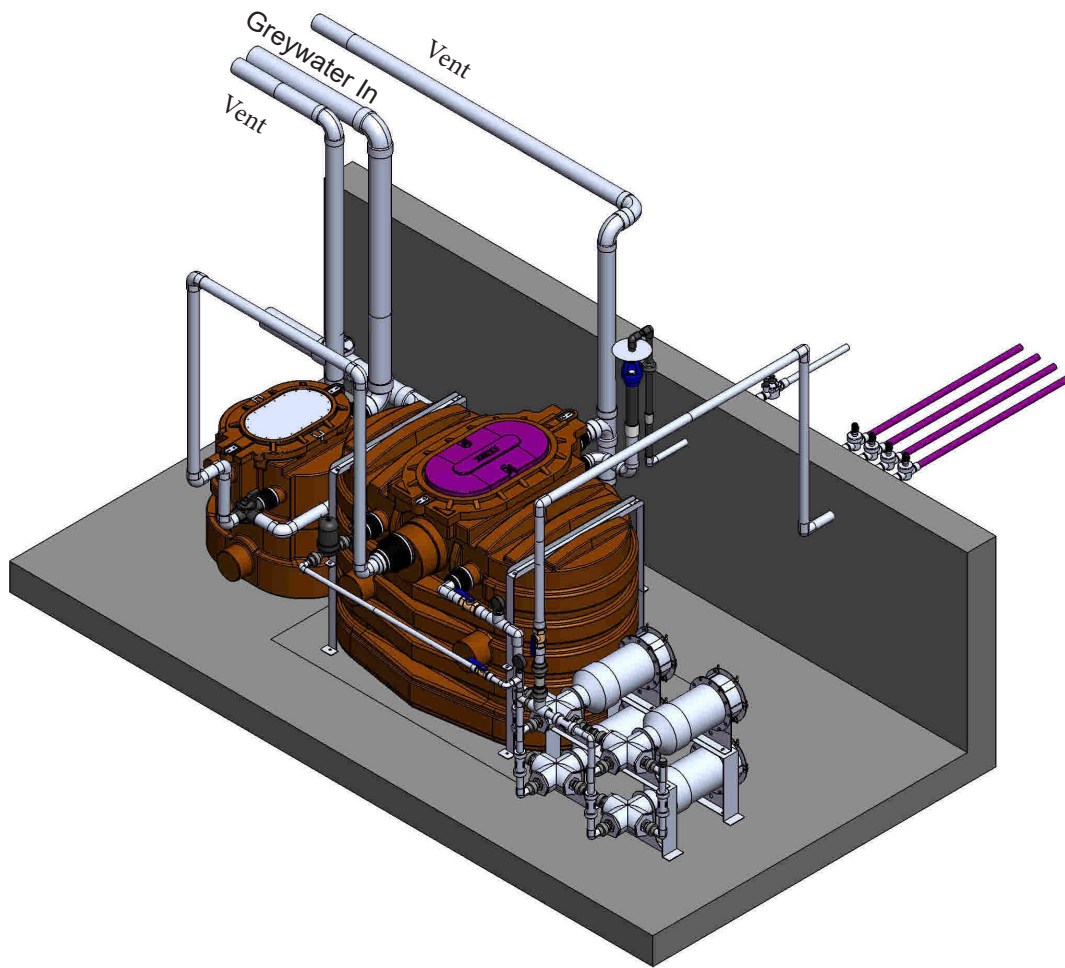




## GXL-4SP-MZP4 Processor With Lift Station Installed In a Mechanical Room

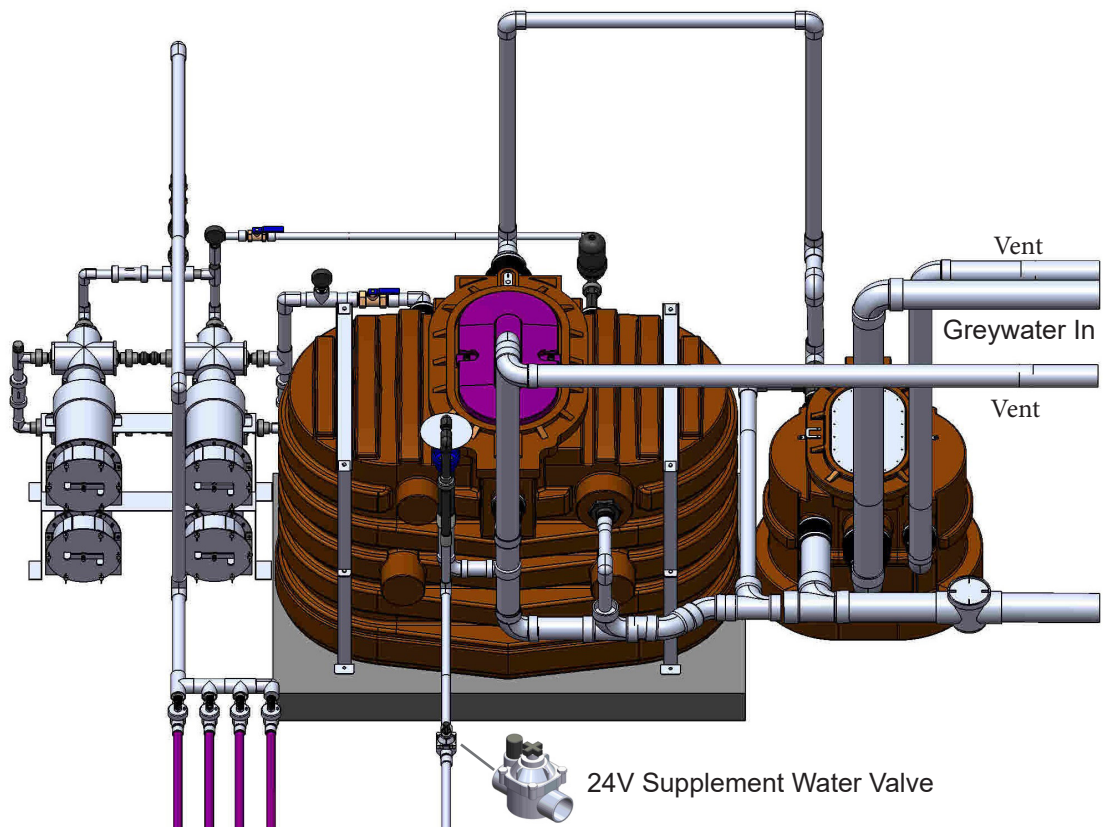
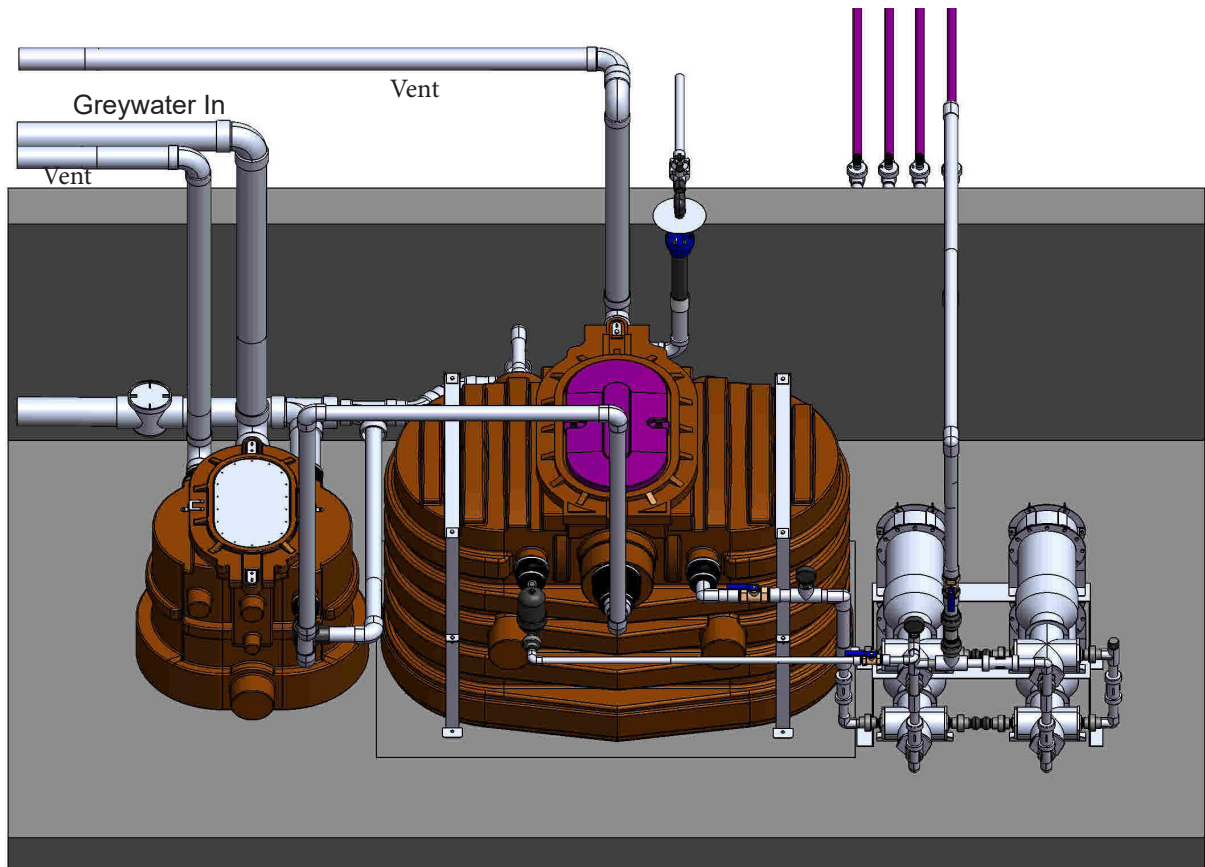




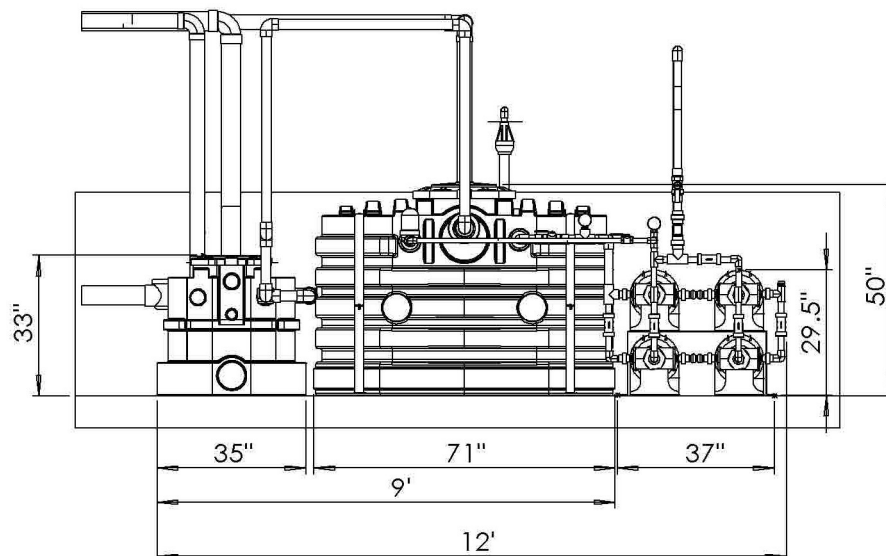
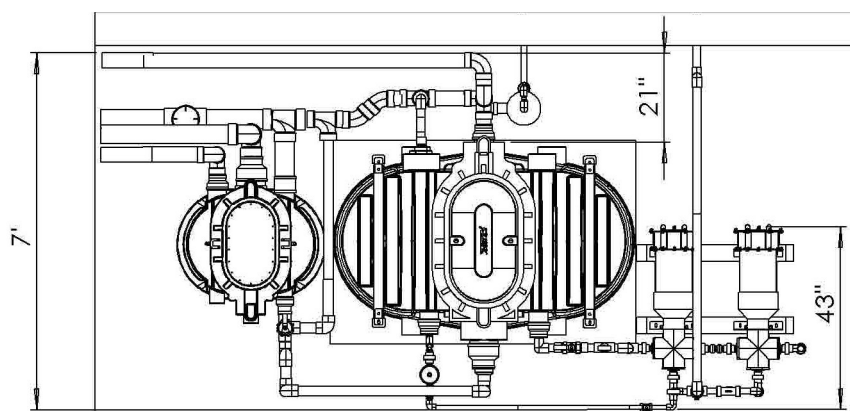
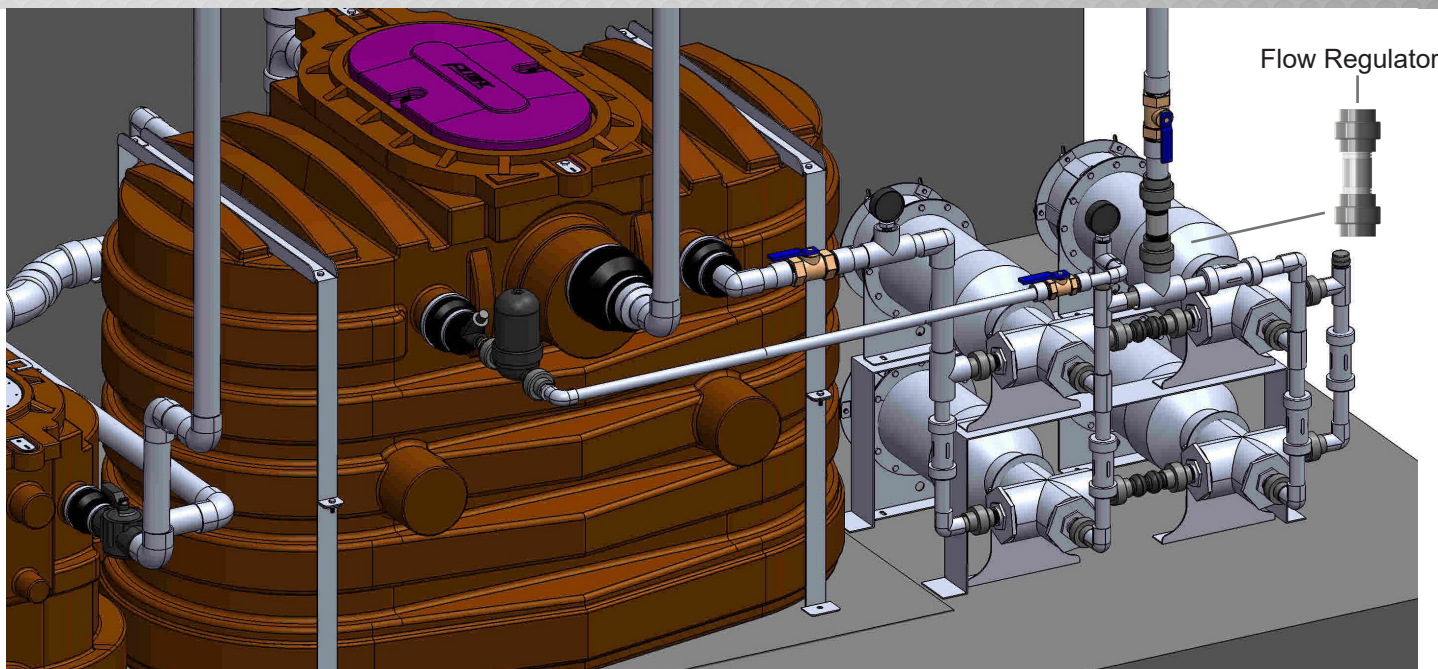


# PROCESSOR INSTALLED IN BUILDING

## INSTALLATION









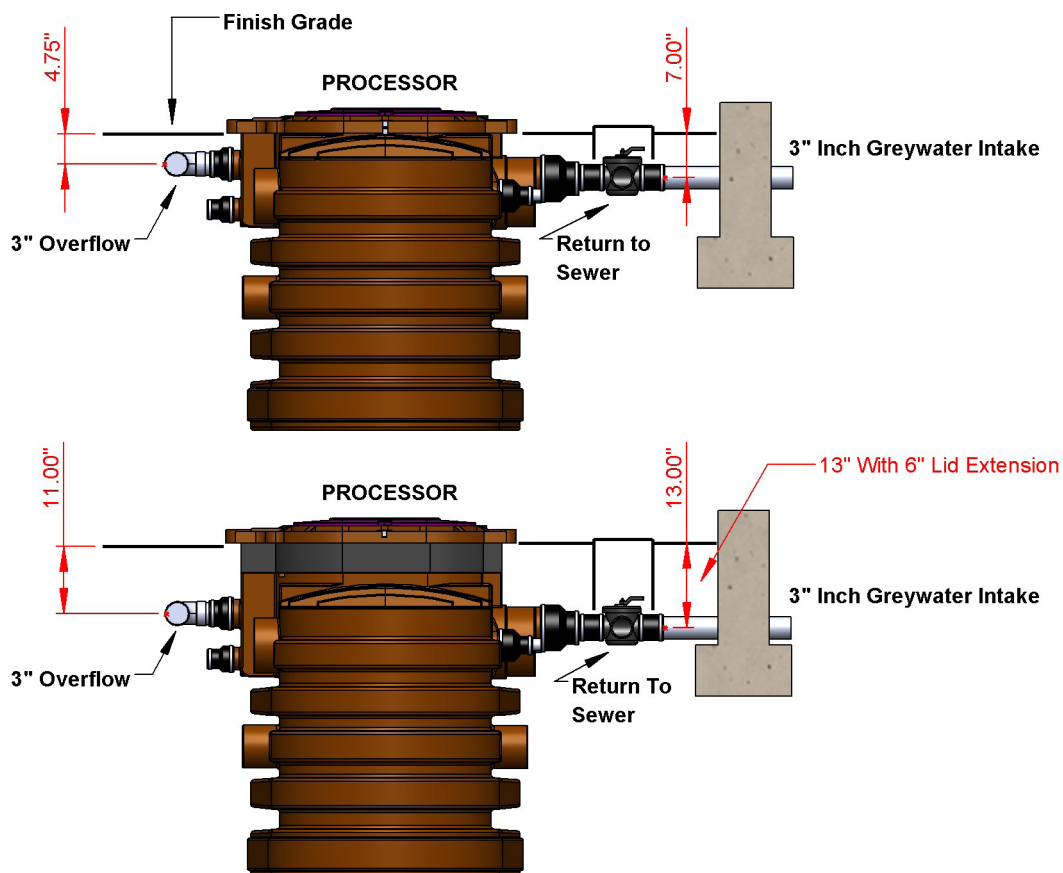
The first step in the Flotender system installation is to determine the location of the greywater processor. In-flowing greywater must be either gravity-fed from the building's greywater stub-out or pumped into the greywater processor using an external transfer station. (sold separately)

### ABOVE-GROUND GREYWATER PROCESSOR INSTALLATIONS:

Ensure that the greywater processor is placed at an elevation which can be gravity-fed from the stub-out in the building. It is recommended that the processor and external components are placed on a level surface with at least 29" of clearance above the top of the processor's lid for filter removal.

### FOR IN-GROUND GREYWATER PROCESSOR INSTALLATIONS:

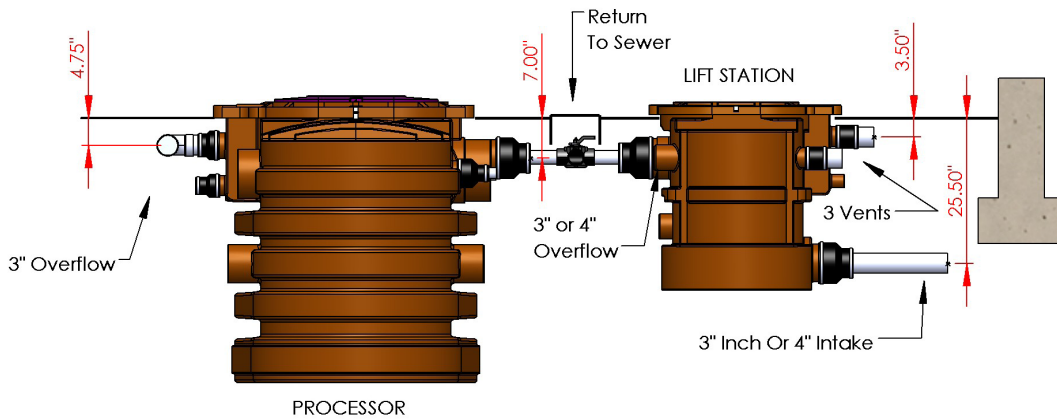
For in-ground installations, excavate and place the Greywater Processor on 1 inch of compact sand to help with leveling or on a concrete anchor slab if required. Refer to the following diagrams when placing the greywater processor in the ground. Ensure that the incoming greywater is able to gravity-flow from the building stub-out.



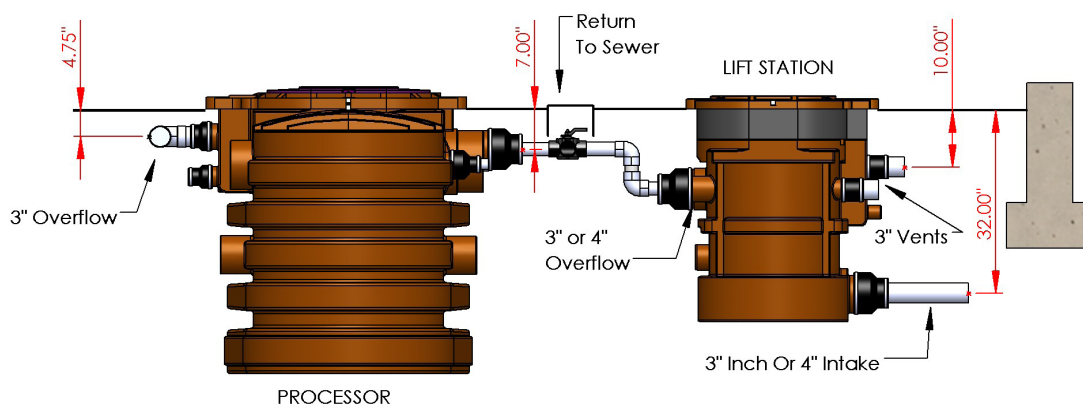
## LOW GREYWATER STUB-OUTS

For installations where the greywater stub-out is below the intake of the greywater processor, a lift station may be installed. The lift station features a built-in pump, and activation float switch which pumps the incoming greywater up and into the greywater processor intake port.

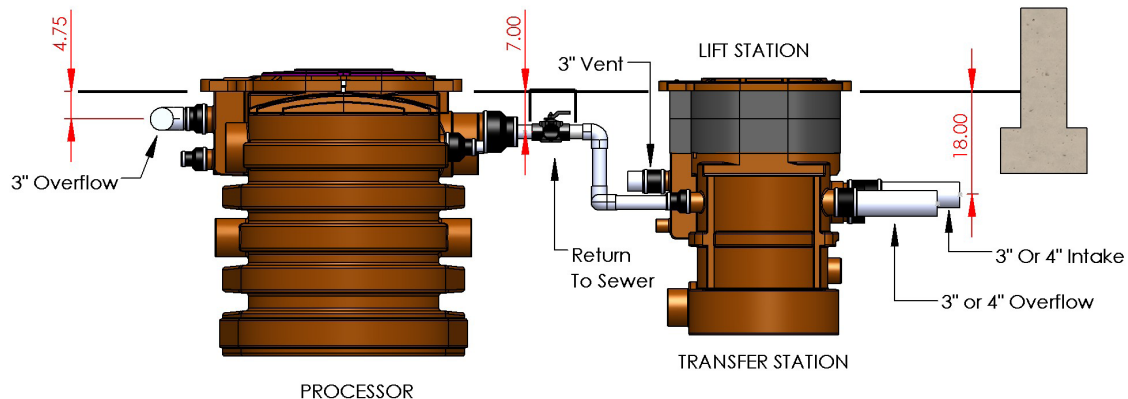
Greywater Processor With Transfer Station



Greywater Processor With Transfer Station And Lid Extension



Greywater Processor With Mid-Level Intake and Lid Extensions

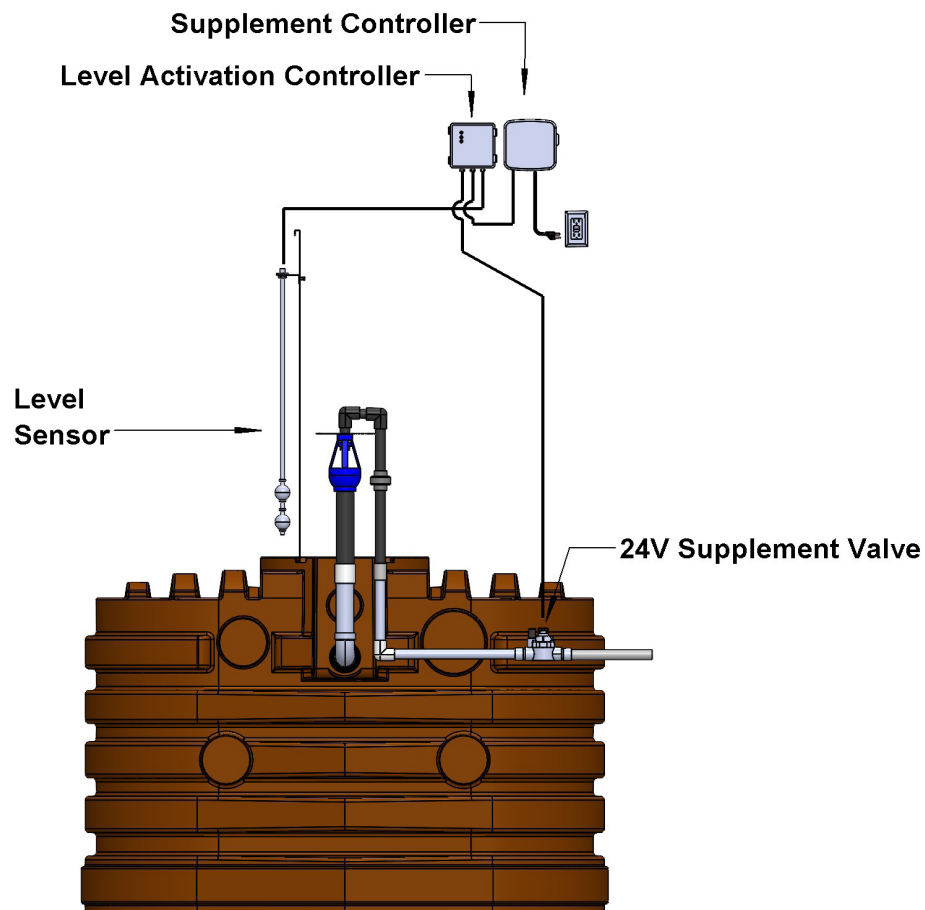


### AFS-GXL GL Series Supplemental Water Package

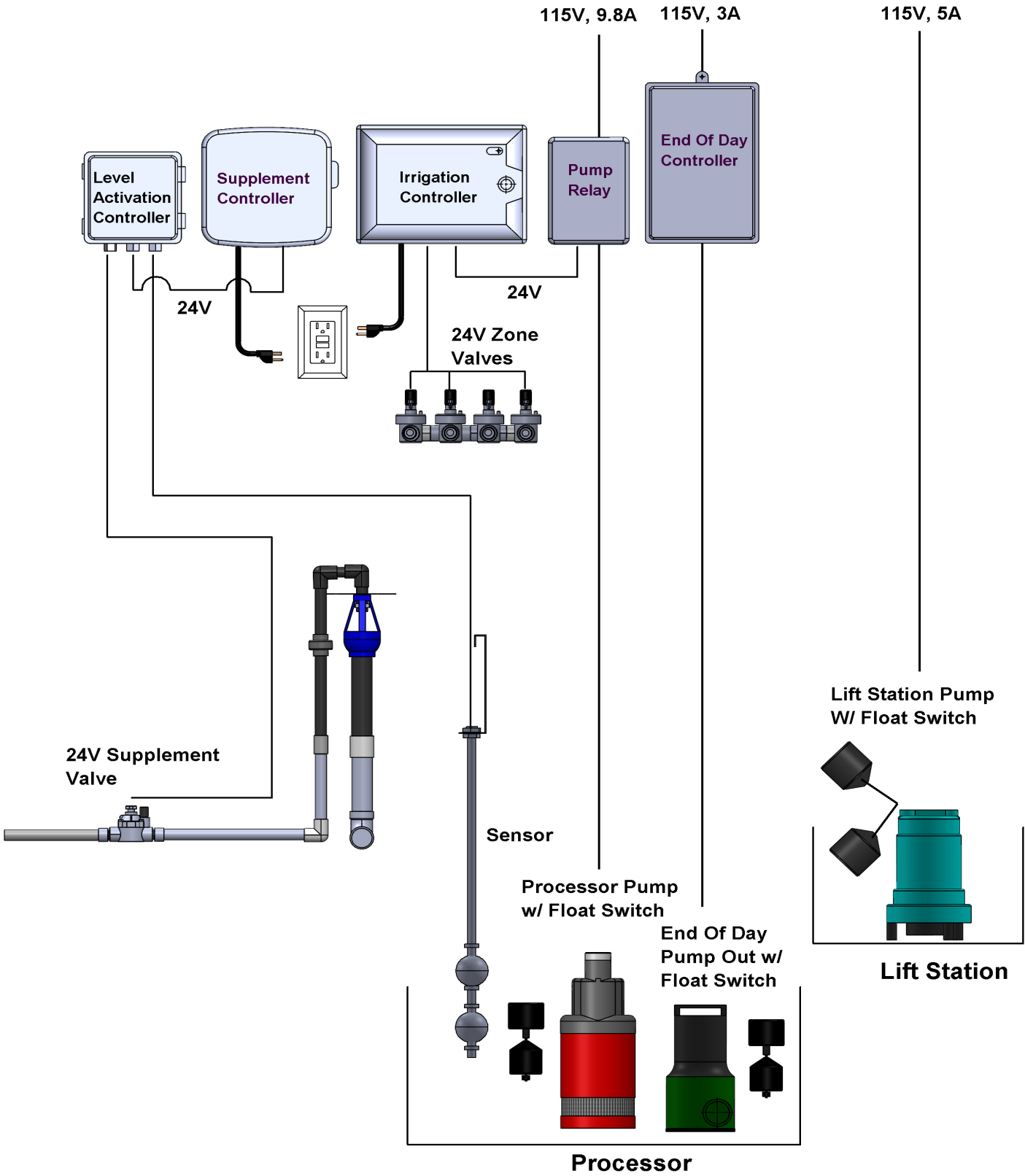
An upper and lower float switch adds water at a low water level and turns it off when water reaches the upper float.

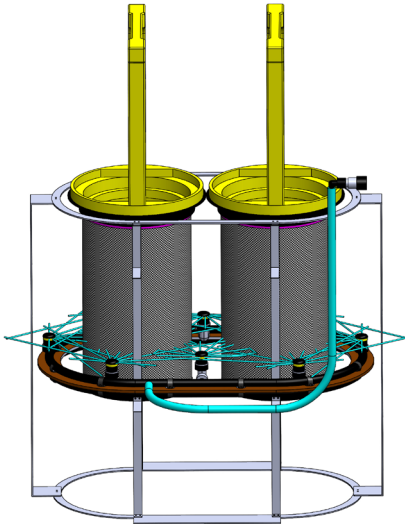
Includes:

- 1 - Sensor w/ Mounting Bracket
- 1 - Level Activation Controller
- 1 - Supplement Controller
- 1 - Auto-Fill Valve
- 30 ft 24V 18-3 Multi-Strand
- 30 ft 24V 18-2 Multi-Strand
- 1 - Auto-Fill Port Connection Fitting
- 7- Spade Connectors
- 2 - Grease Filled GreyBlack wire Nuts
- 1 - AF-AG2 Air-Gap Assembly

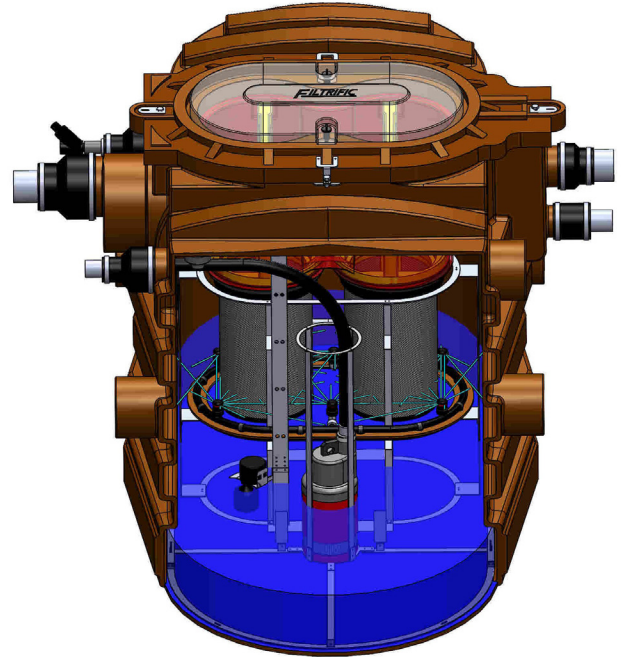








**Greywater zones should be scheduled to water throughout the day. This will assure the filter baskets are being washed whenever greywater enters the Processor.**



## Greywater Irrigation Zone Controller



Set to operate 7 days of the week

- Indoor or outdoor
- 4 stations expandable to 16.
- 4 individual programs, A,B,C,D
- 6 Independent start times per program

## Supplemental Water Controller



Set Station # 1 to operate the supplement electric valve the days of the week where zone supplement watering is needed.

- Indoor or outdoor
- 3 individual programs, A,B,C for station # 1.
- 4 independent start times per program
- Operates any or all days of the week as needed.

## Example Programing Guide



### Supplement Controller Program A

#### Station # 1

Mon, Tues, Wed,  
Thurs, Fri, Sat, Sun

Start Time # 1:  
7:00 AM

Run Time  
15 Min.

Start Time # 2:  
1:00 PM

Run Time  
15Min.



### Irrigation Greywater Controller Program A

#### Station # 1

Mon, Wed, Fri, Sun

Start Time:  
7:00 AM

Run Time:  
6 Hrs

### Irrigation Greywater Controller Program B

#### Station # 2

Mon, Wed, Fri, Sun

Start Time:  
1:00 PM

Run Time:  
6 Hrs

### Irrigation Greywater Controller Program C

#### Station # 3

Tues, Thurs, Sat

Start Time:  
7:00 AM

Run Time:  
6 Hrs

### Irrigation Greywater Controller Program D

#### Station # 4

Tues, Thurs, Sat

Start Time:  
1:00 PM

Run Time:  
6 Hrs

**Only available greywater (or supplemental water added) will be dispersed during zone run times! This will happen multiple times during the time the zone is running, depending on the greywater flowing into the system.**

## The Supplemental Water Controller:

Set the supplemental controller to add water to zones requiring more water than is available from inflowing greywater sources. In order for supplemental water to go to an irrigation zone, it must be adding water at the same time as a zone valve is open. When a zone valve is activated, supplemental water can be added. Set the start time to match the irrigation controller. Looking at the chart above, the suggested time for this would be 7:00 AM and 1:00 PM. Turn the Supplemental Controller off during wet months or when additional water is not needed.



# SERVICE GUIDELINES

## SYSTEM SERVICE

The Flotender GXL System requires periodic maintenance. The following are recommendations based on average usage as detailed below:

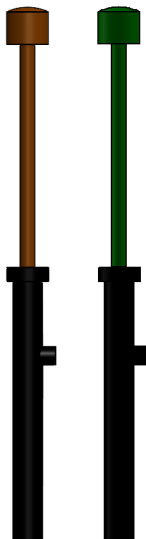
Suggested Service Guidelines For Shower, Sink and Tub Systems	
Primary Filter:	6 months
Secondary Filter:	1 year
Suggested Service Guidelines for High Use Washing Machine Systems	
Primary Filter:	2 months (See Below)
Secondary Filter:	6 months (See Below)

When the primary filters have collected excessive lint, the filters will flush through the overflow tubes.

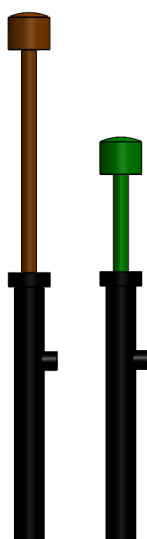
If this is happening regularly, check the irrigation zone scheduling so watering is occurring more frequently throughout the day. This will allow more water to more freely pass through the filter baskets.

The performance indicator positions shown below will also indicate if the system needs attention.

Secondary Filters  
are Clean



Secondary Filters  
Need Cleaning



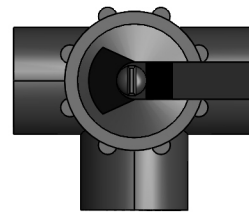
Low Pump Pressure



Before cleaning the Primary Filter, turn the diverter gate so it is blocking the greywater flowing into the processor. The return to sewer will be on the left or right as shown below with the handle pointing at the port being blocked.

Flow To  
Processor  
Is Blocked  
(Maintenance Position)

To Processor

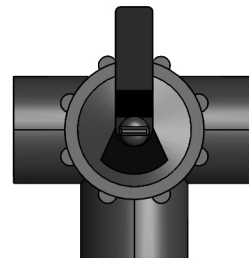


In

To Sewer

Flow To  
Sewer Is  
Blocked

To Processor

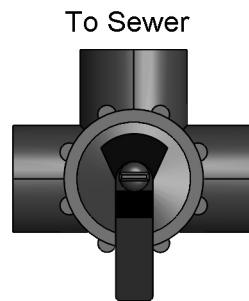


In

To Sewer

Flow To  
Sewer Is  
Blocked

To Processor

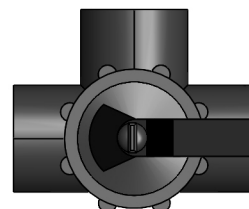


In

To Sewer

Flow To  
Processor  
Is Blocked  
(Maintenance Position)

To Processor



In

# CLEANING PRIMARY FILTERS

## SYSTEM SERVICE



### REMOVE ACCESS CAP

Turn the knobs on each side of the cap so they are parallel and past the dot as shown.

Occasionally, it is recommended that the primary filter is manually cleaned. In order to access the primary filters, the overflow flush tubes must be removed.



### STEP 1:

Pull back on the Filter Flush Tube to disconnect pipe from the overflow port.



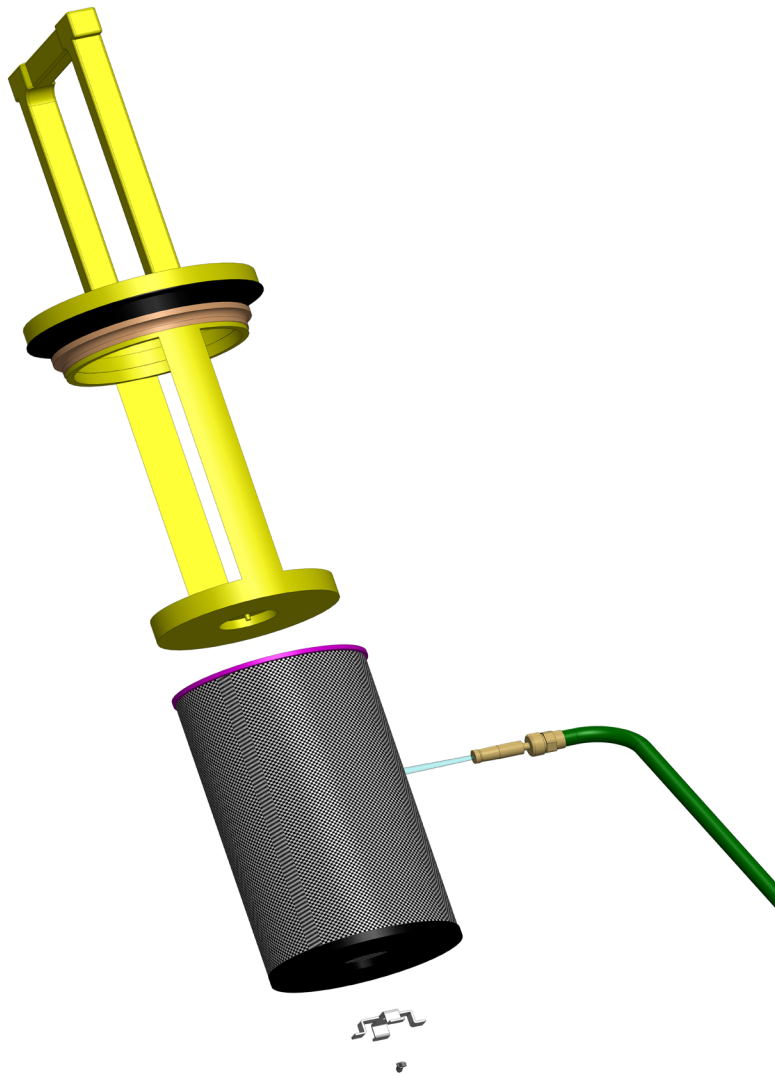
### STEP 2:

Lift the Filter Flush Tube from the Filter Carriage. The Primary Filter Baskets can now be lifted out.





Remove the filter screen from the filter frame by removing the wing nut on the bottom of the basket. Use a standard garden hose to spray debris from the basket. Once the debris is removed from the basket, reconnect the screen, replace the basket in the processor and reconnect the overflow flush tubes.



Add 1 cup of Bio-Clean to each Filter Basket every two months to minimize bio-slime build up on internal components. This will reduce the frequency of secondary filter cleaning as well as maintaining the best performance of pumping equipment..

# CLEANING SECONDARY FILTERS

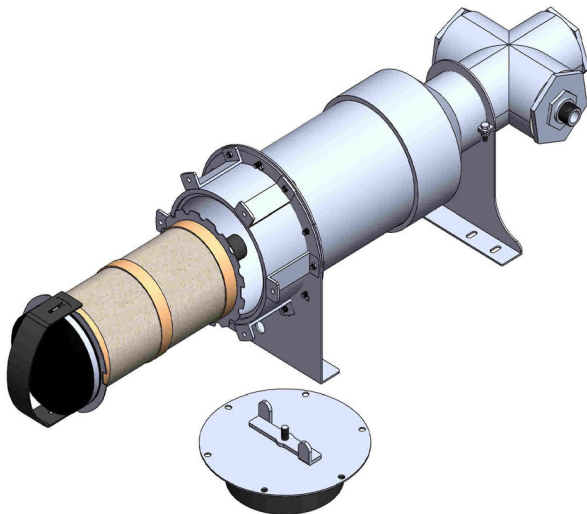
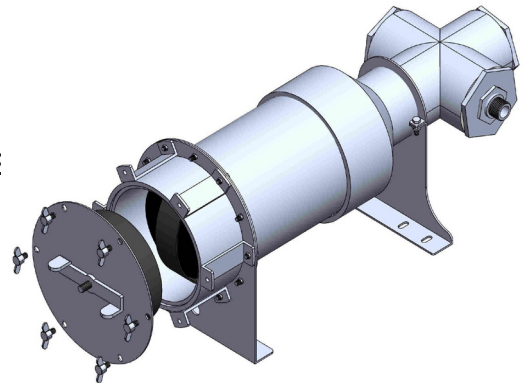
## SYSTEM SERVICE



**NOTE:**  
TURN THE IRRIGATION CONTROLLER TO OFF, OR DISCONNECT THE POWER FROM THE PUMP BEFORE CLEANING THE SECONDARY FILTER.

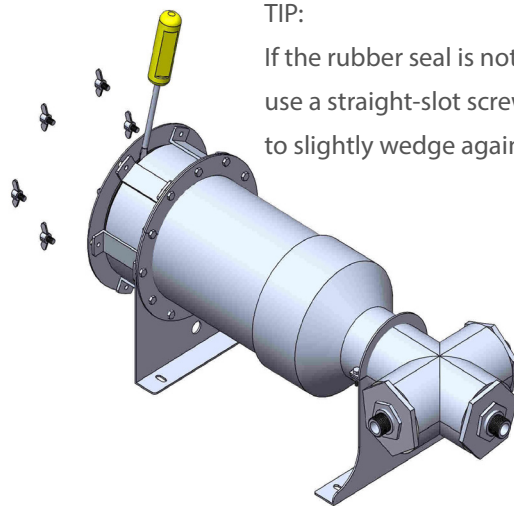
### STEP 1: REMOVE THE FRONT ACCESS PLATE

Loosen the wing nuts and pull back on the metal face plate to allow water to drain before removing the front access plate.



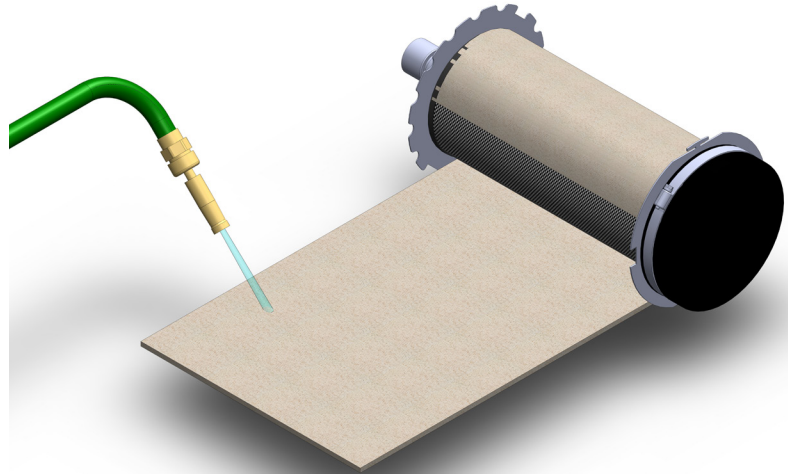
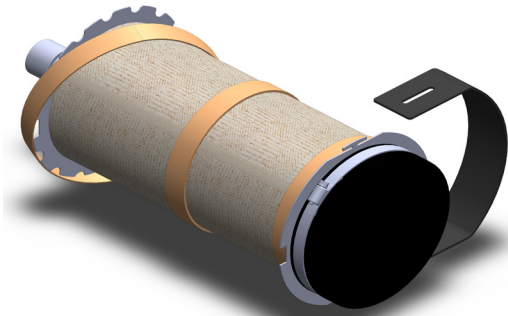
### STEP 2: REMOVE THE FILTER ELEMENT

Pull straight back on the filter handle to remove the filter element.

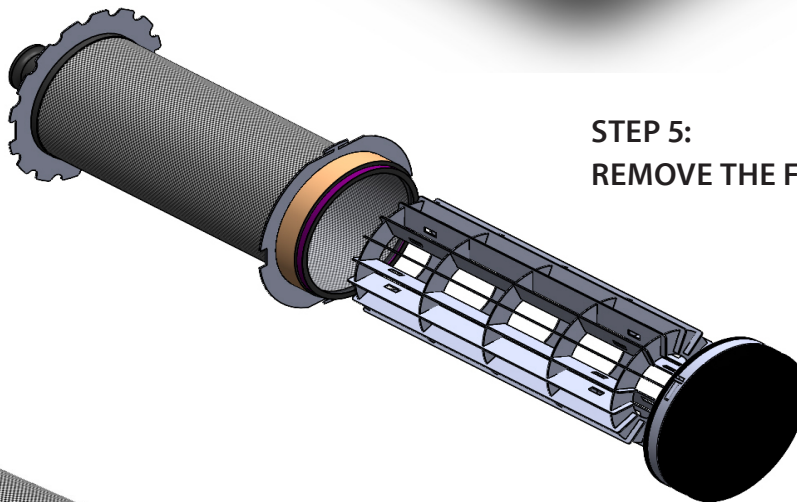


**TIP:**  
If the rubber seal is not releasing, use a straight-slot screw driver to slightly wedge against the housing.

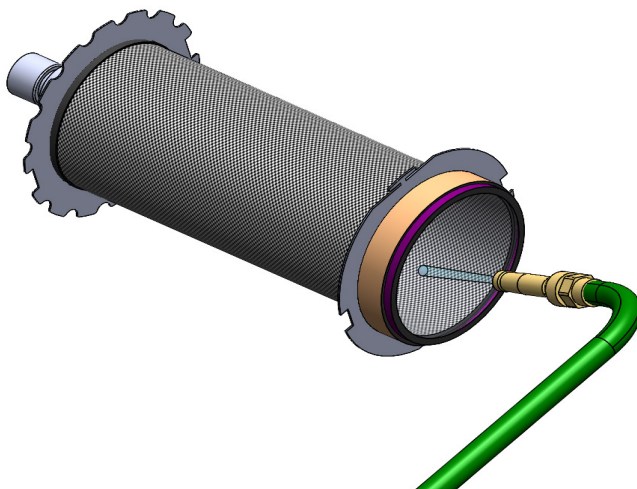
**STEP 3:  
REMOVE THE HANDLE AND  
SILICONE STRETCH BANDS**



**STEP 4:  
CLEAN THE FILTER FABRIC**  
Unroll the filter fabric and spray off the collected lint.



**STEP 5:  
REMOVE THE FILTER FRAME**



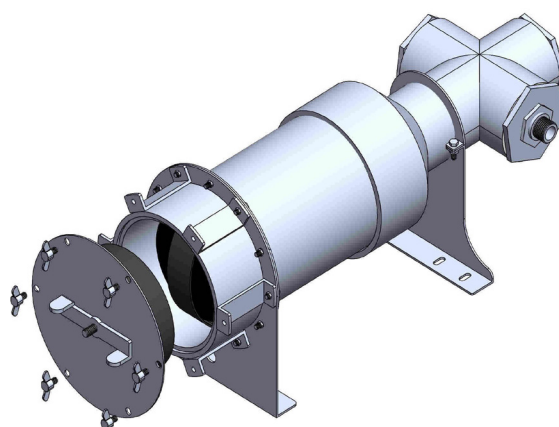
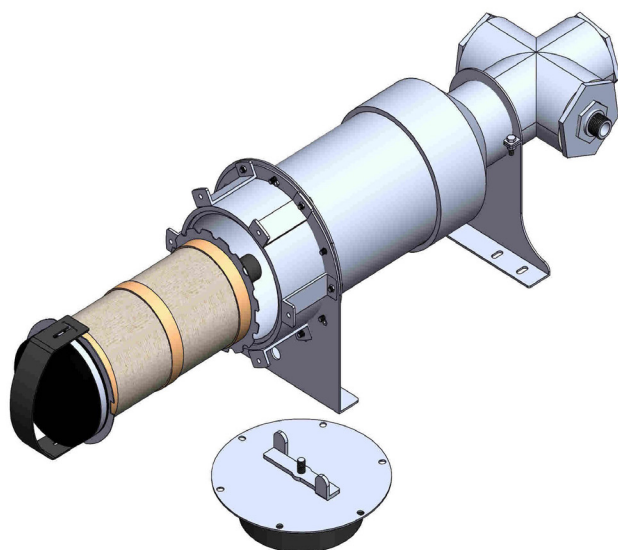
**STEP 6:  
WASH LINT FROM THE  
FILTER SCREEN**

Wash away lint accumulation on the filter element by directing a spray nozzle against the inside surface of the filter screen. This will reverse wash the lint from the outer surface of the screen.



# CLEANING SECONDARY FILTERS

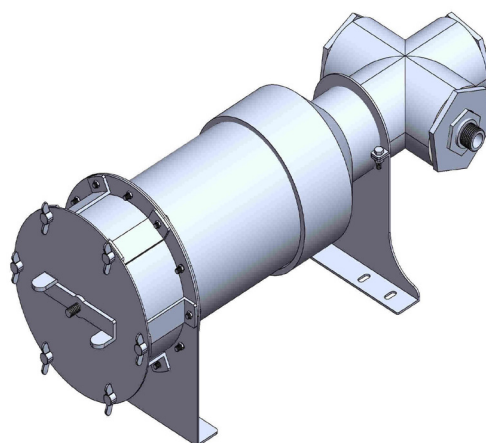
## SYSTEM SERVICE



### STEP 7:

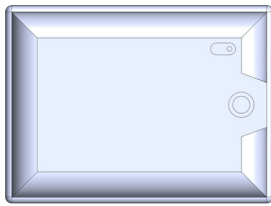
#### RE-ASSEMBLE

Insert the cleaned filter element and the face plate. Hand tighten the perimeter wing nuts then firmly hand tighten the center wing nut. (Note: Once the system is operating, further hand tighten the front wing nut as needed)



## NOTE:

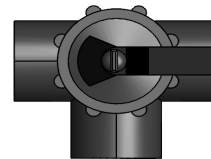
TURN THE IRRIGATION CONTROLLER TO OFF, OR DISCONNECT THE POWER FROM THE PUMP, OR TURN THE 3-WAY VALVE TO DIVERT IN-FLOWING GREYWATER BEFORE CLEANING THE SECONDARY FILTER.



Irrigation  
Controller

Flow To  
Processor  
Is Blocked  
(Maintenance Position)

To Processor

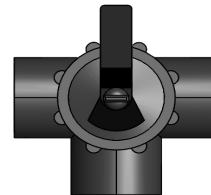


To Sewer

In

Flow To  
Sewer Is  
Blocked

To Processor



To Sewer

In

Follow the steps below to access the internal components inside of the Greywater Processor.



## STEP 1:

Remove front and back connection bolts.



## STEP 2:

Remove side connection bolts.

Continue

# PROCESSOR INTERNAL ACCESS

## SYSTEM SERVICE

### DISCONNECTING OVERFLOW FROM CARRIAGE:



**STEP 3:**  
Remove The Lid



**STEP 4:**  
Remove the bolt at the back of  
the filter carriage.



**STEP 5:**  
Remove poly-mat, overflow flush  
tubes and filter baskets.



**STEP 6:**  
Rotate the fastening nut left or right 90  
degrees to free the collar from the filter  
carriage and pull back on the accordion  
tube.



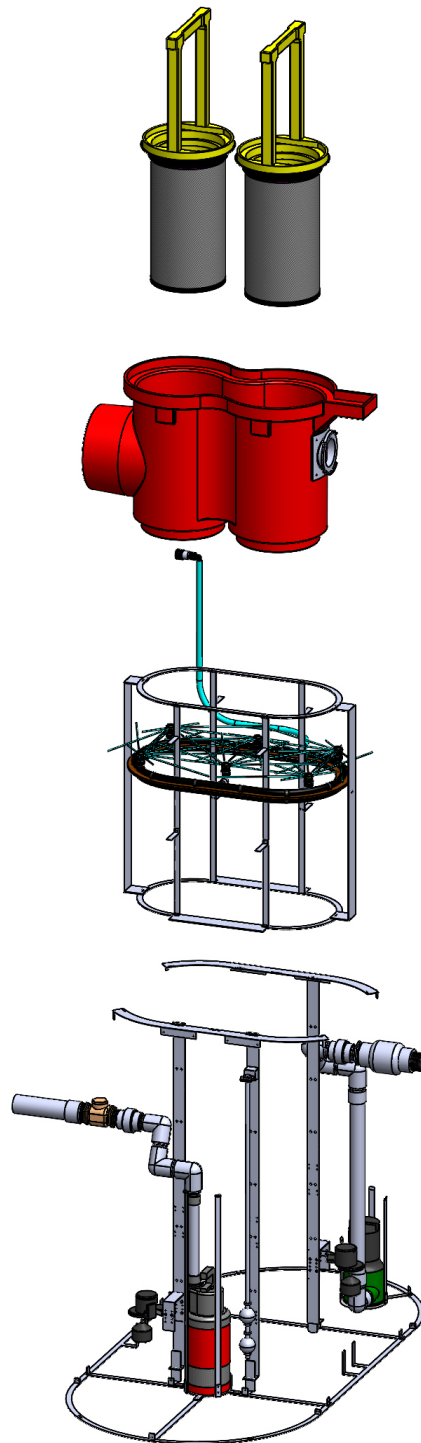
Overflow disconnected from carriage



**STEP 7:**  
Pull back of the filter carriage to  
clear the metal wash assembly then  
lift the filter carriage out.



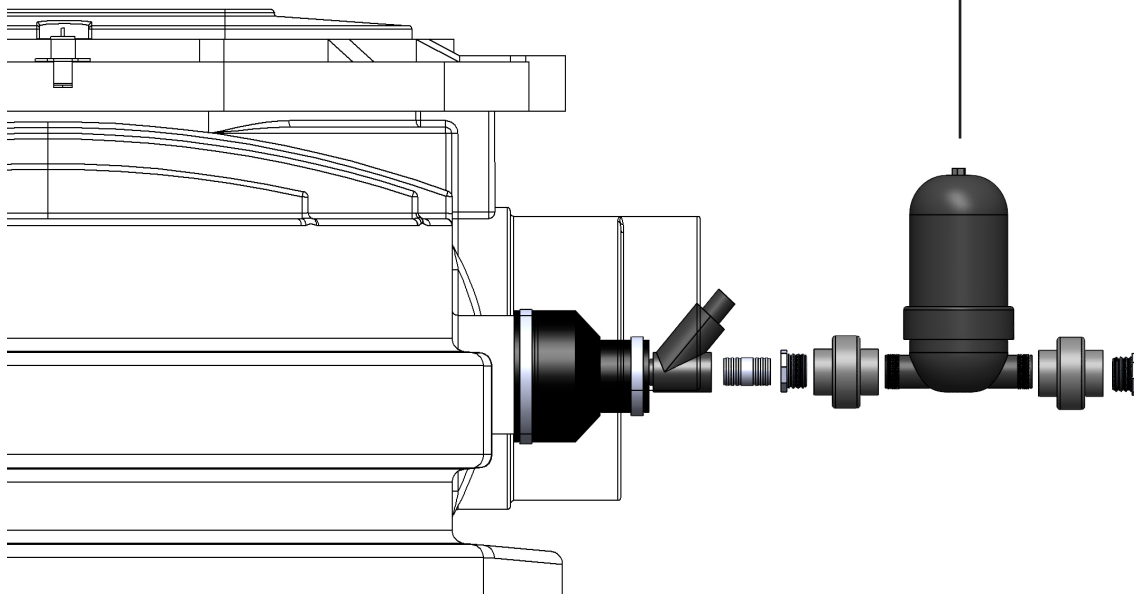
For full access to internal components for future replacement or servicing, disconnect the overflow and remove the red filter carriage. The spray ring frame can then also be lifted out.



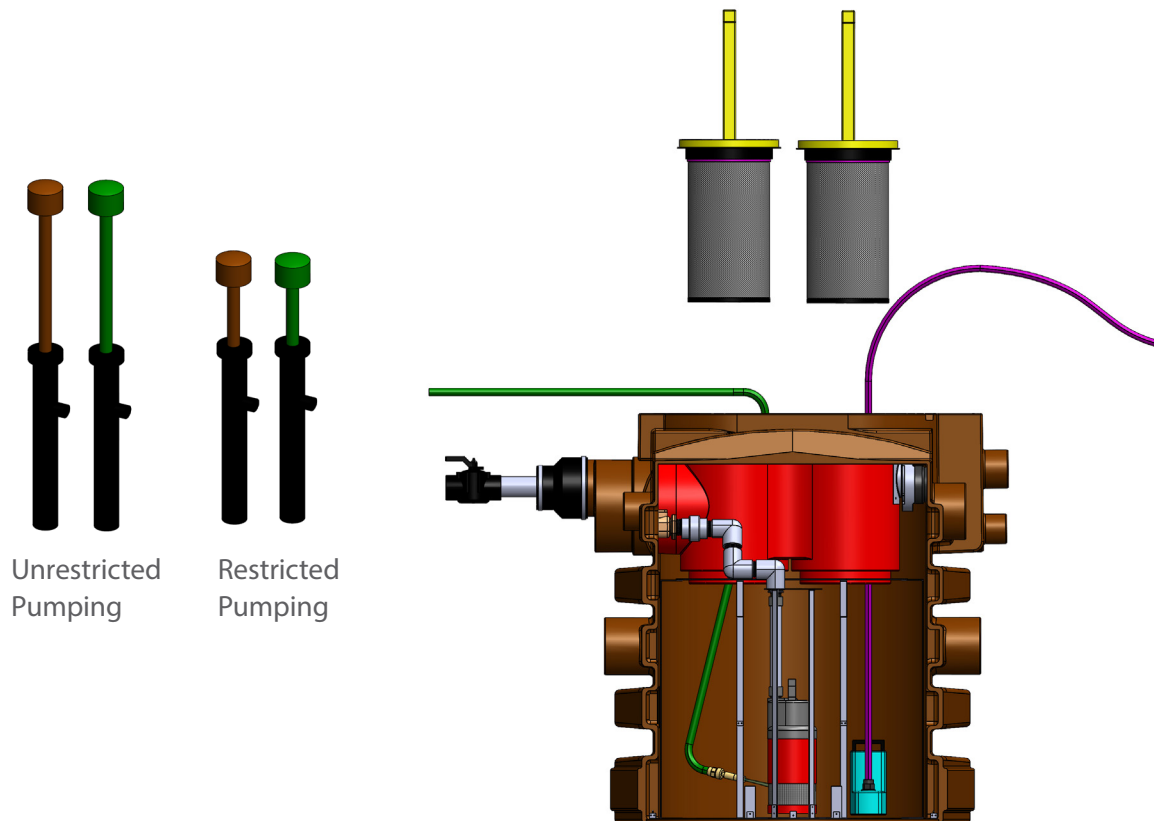
# CLEANING FILTER WASH DISC FILTER

## SYSTEM SERVICE

The filter wash disc filter prevents initial installation pipe debris from plugging the internal wash system. Unless there has been a disruption to the system this is not a regular maintenance item. To clean, unthread the top cover and lift out the filter discs and then rinse.



If the pop-up indicators are showing restricted pumping, there is probably a pump screen restriction. Pump all water from the processor using the service pump shown below. Then with a spray nozzle attached to a garden hose, wash off any accumulated bio-slime deposits from the pump housing.



The service pump provides a convenient drop in pump-out when spraying off any bio-slime that over time has collected on plastic surfaces and the pump screen intake.



**Problem:**

Neither performance indicators are fully popped up and minimal water is coming out of the drip emitters.

**Solution:**

Both the primary and the secondary filters need to be cleaned or there is a break in the drip line that needs to be fixed.

**Problem:**

When the pump is running and both primary and secondary filters have been cleaned, the pop-up indicators are still not popping up.

**Solution:**

The screen at the base of the pump has become coated with bio-slime and micro particles. Remove the red filter carriage then disconnect the pump and lift it out of the pump holder. Wash off the pump screen at the base of the pump and reconnect the pump. If the overflow drains to a drain pit, make sure there is sufficient drainage so that excess unfiltered greywater is not backing up and flowing over the top of the red filter carriage.

**Problem:**

Pump does not run.

**Solution:**

Check to make sure there is power to the pump. With at least 7 inches of water in the bottom of the filter tank, plug the pump in. If the pump does not turn on and you have power to the pump, unplug the low level pump float switch and plug the pump directly into the power outlet. If the pump starts pumping then the float switch needs to be replaced. If the pump does not run then the pump will need to be replaced.

**Problem:**

Primary filter baskets are requiring cleaning more frequently than usual.

**Solution:**

Check to make sure the spray system is operating. If the sprayers are not rotating then the Filter Wash Strainer needs cleaning. the primary filters require forcefull spraying to keep the mesh open.

## SYSTEM SERVICE

## NOTES

---

---

---

---

# SYSTEM WARRANTY

## LIMITED TRADE WARRANTY

The Filtrific Co. LLC (Filtrific) offers a 5 year warranty on all Flotender polyethylene components. All other products and accessory components are warranted to be free of defects in material and workmanship for a period of one (2) years from the original date of purchase. This warranty extends only to the original installer of the Flotender system. Filtrific will repair or replace any properly handled and installed product which fails under normal operating conditions within the warranty period, providing it was installed and maintained correctly, and all materials are returned to the factory (shipping prepaid). This warranty does not extend to labor or replacement charges, nor does it apply to any equipment of another manufacturer used in conjunction with Flotender products. Filtrific shall not be held liable for indirect, incidental, or consequential damages to Flotender products.









# GXL Series Greywater Irrigation Systems

**Flotender™ by Filtrific®**  
13280 NE Spring Blvd.  
Bellevue, WA 98005  
P: 800.906.0604 • F: 425.482.9559  
[www.flotendersystem.com](http://www.flotendersystem.com)

**Copyright 2025 by Filtrific® Company LLC. Printed in  
U.S.A.**

**Certain products illustrated in this installation guide  
are protected by applicable patents and patents  
pending. Filtrific® will aggressively defend all of its  
intellectual property.**



