



**Mountain Wastewater Management**

# **Puraflo® Peat Fiber Biofilter**



## **Designer Instructions For Pennsylvania**



## **Mountain Wastewater Management**

### TABLE OF CONTENTS

#### **1.0 General Instructions**

**Design Aid 1 Puraflo Peat Biofilter Specifications, Top, Side & End View**

**Design Aid 2 Generic Dose Tank, Top & Side View**

**Design Aid 3 Optional PA Puraflo Dual Pump Tank, Top & Side View**

**Design Aid 4 Hydraulic Elevation Profile, Using PA Puraflo Dual Pump Tank**

**Design Aid 5 Hydraulic Elevation Profile, Using Separate Pump Tanks**

**Design Aid 6 Effluent Filter Specifications**

**Design Aid 7 PA Puraflo Construction & Maintenance Specifications**

**Design Aid 8 Puraflo Pump Calculations & Timer Settings**



## **Mountain Wastewater Management**

### **1.0 General Instructions**

These instructions are to assist designers in assembling a complete design package for submitting to the local agency for permitting. The designer can use the included design aids with his/her site plan. We offer design assistance at no charge so feel free to call or email us with any questions you may have. We can also review your design for completeness and accuracy.

Some of the design aids have blank boxes or areas for the designer to fill in. Below are detailed instructions for each design aid:

**Design Aid 1 – Puraflo Peat Biofilter Specifications:** The model number of P150N\_\_B should be filled in using the number of modules required for the particular design. For example, if 3 modules are required, enter 3 between the N and B.

**Design Aid 2 – Generic Dose Tank:** Most tank suppliers have detail drawings available for inserting with a design package and therefore, this aid is optional. If the designer chooses to use this aid, he/she can simply fill in the boxes, capacity in gallons, and gallons per inch and use as a generic tank.

**Design Aid 3 – PA Puraflo Dual Pump Tank:** This tank was designed to combine two pump tanks into one dual tank in order to save money and space. The key is that each compartment must be totally separate from each other to act as two separate compartments. Contact your local tank supplier to see if they stock this tank or if it can be produced by special order.



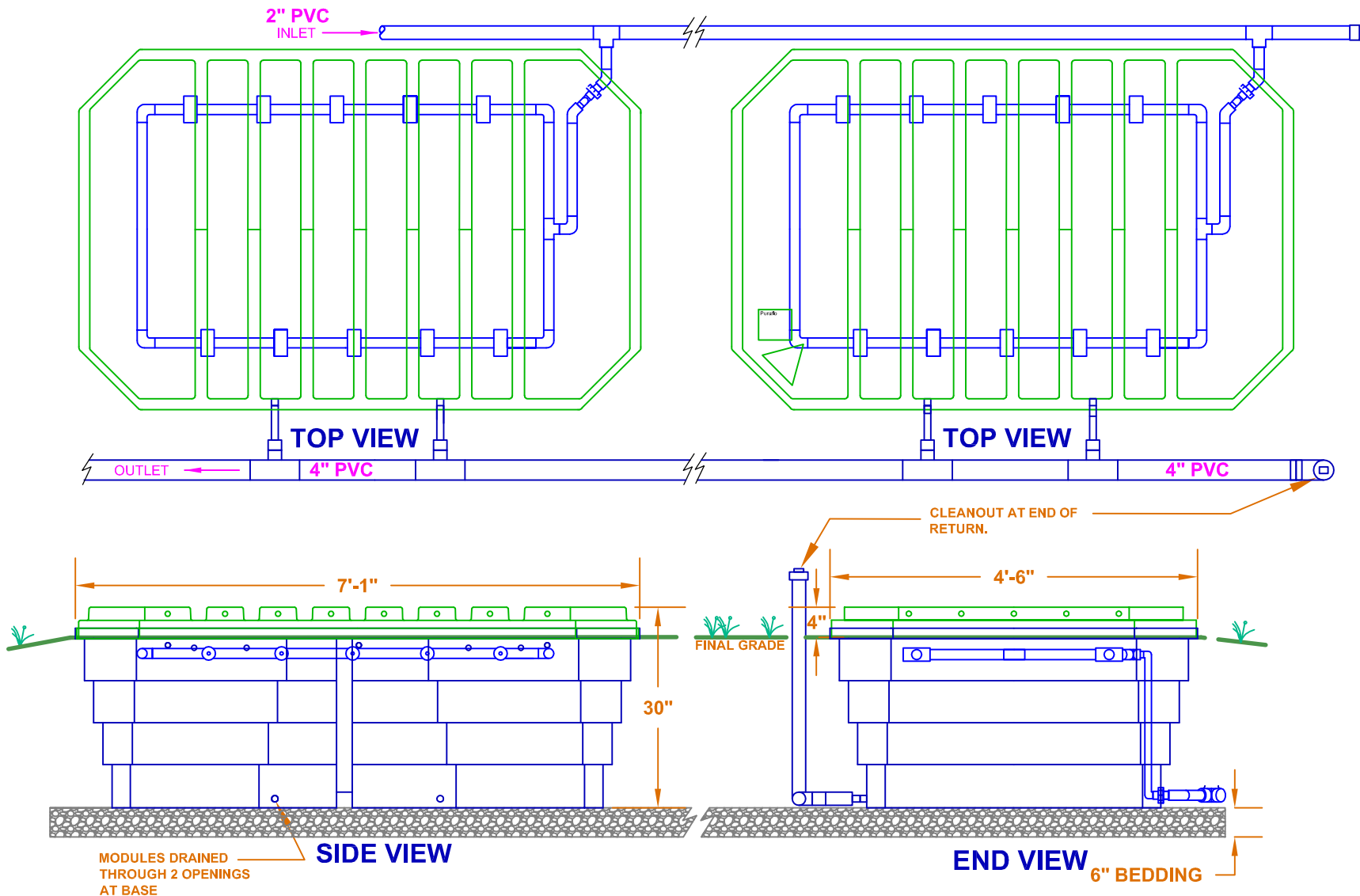
## **Mountain Wastewater Management**

**Design Aid 4 & 5 – Hydraulic Elevation Profile:** Choose one and fill in the elevations for each letter shown.

**Design Aid 6 – Effluent Filter Specifications:** included IS the Polylok PL-625 spec sheet, but one can choose an equal if desired. The filter must have 1/32" filtration.

**Design Aid 7 – PA Puraflo Construction & Maintenance Specifications:** These notes are intended to help the designer with any special construction and/or maintenance notes. These notes can be easily modified to suit your needs.

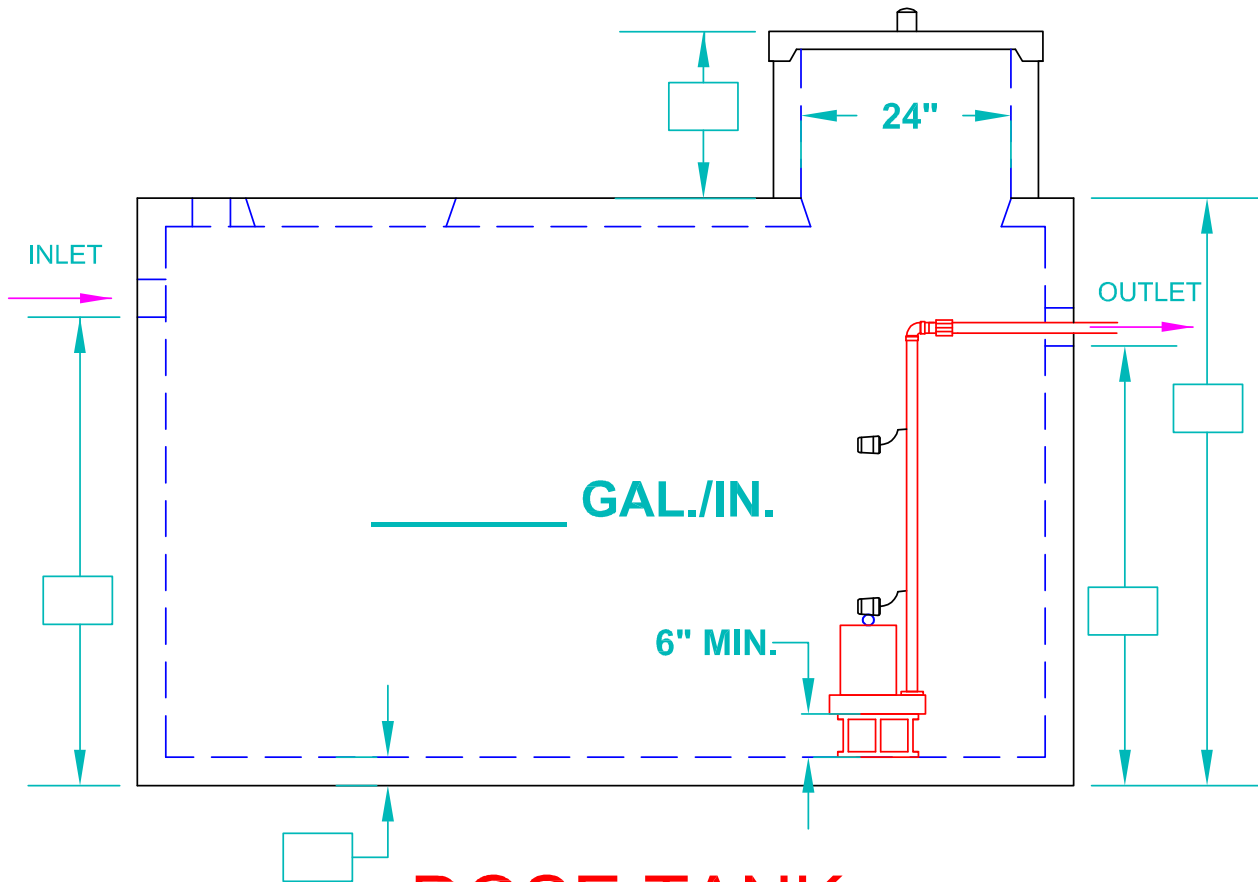
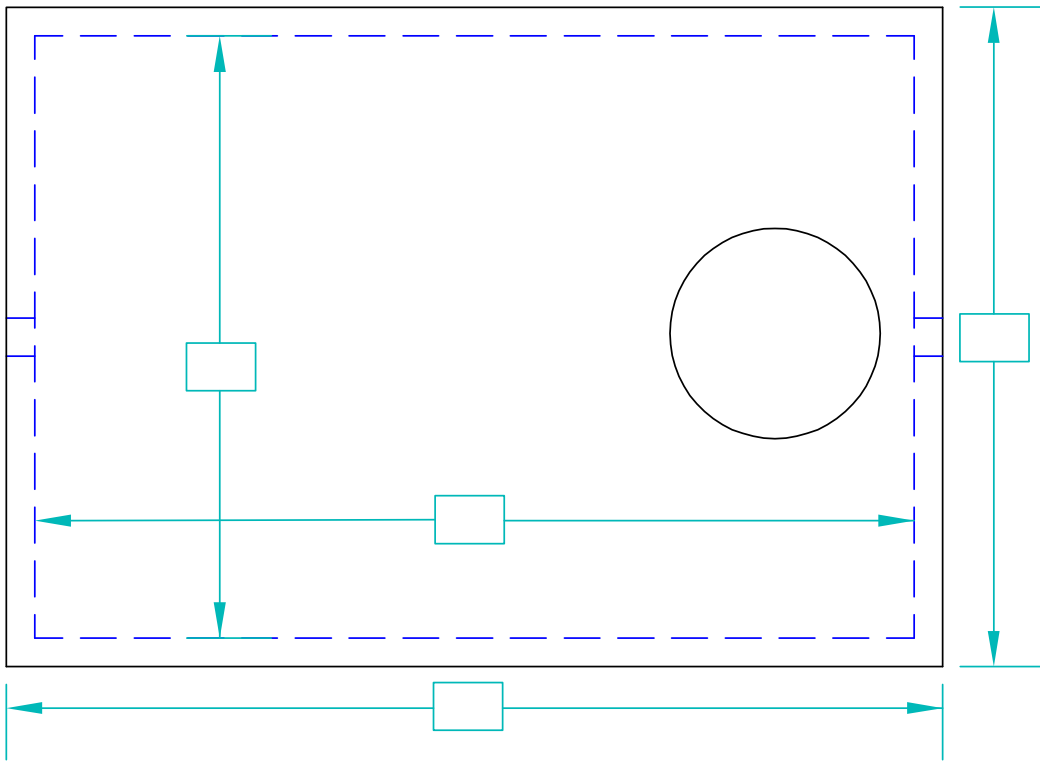
**Design Aid 8 – Puraflo Pump Calculations & Timer Settings:** Pump sizing and timer settings are calculated using Microsoft Office Excel spreadsheet software. A MS Excel file is available for download at [www.mountainwastewater.com](http://www.mountainwastewater.com) or can be sent via electronically if requested. If a designer does not have this program, he/she can simply call or email us the required information and we would be glad to run the calculations and send the results to you. Instructions on how to use the spreadsheet are found on the calculations sheet. However, if you have any questions, please call us.



**PURAFLO PEAT BIOFILTER SPECIFICATIONS**  
**P150N\_\_B, SEALED MODULES, WHITE COLOR CODE**  
**NOT TO SCALE**

MOUNTAIN WASTEWATER MANAGEMENT: 570-924-4696, [www.mountainwastewater.com](http://www.mountainwastewater.com)  
 PURAFLO MFG. BY ANUA: 1-800-787-2356, [www.anua-us.com](http://www.anua-us.com)

INSTALLATION REQUIRES A CONTRACTOR OR AN INSTALLER TRAINER, CERTIFIED BY PURAFLO.

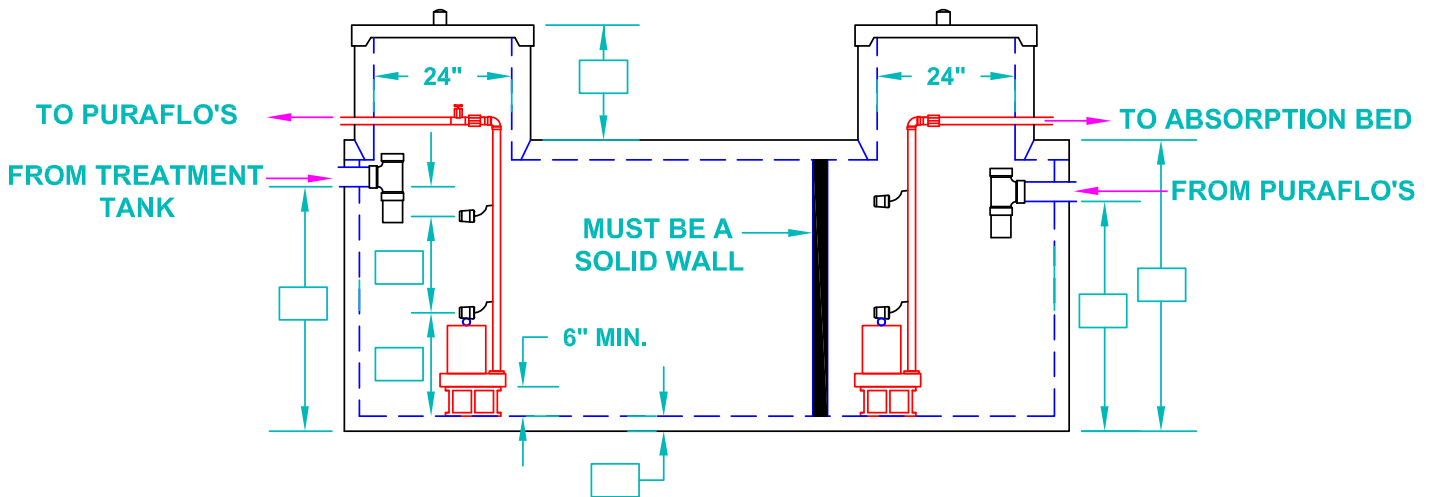
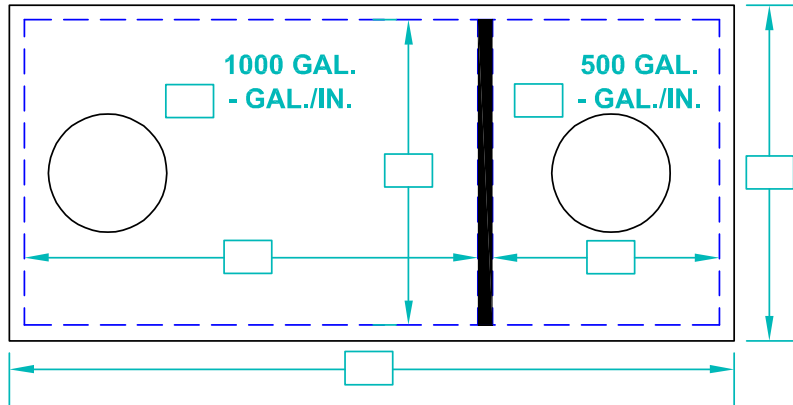


# DOSE TANK

\_\_\_\_\_ GALLON, 1 COMPARTMENT

Courtesy of **MWM**

[www.mountainwastewater.com](http://www.mountainwastewater.com)

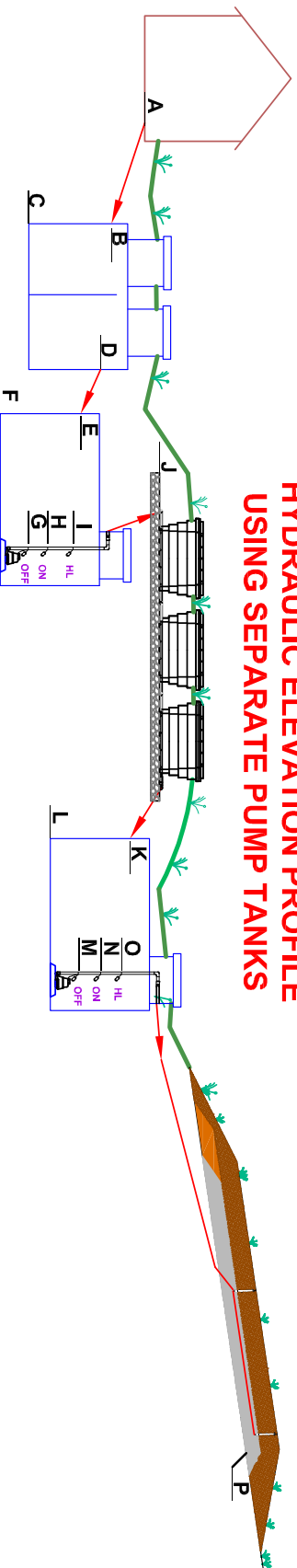


## PA PURAFLO DUAL PUMP TANK

1500 GALLON 2 COMPARTMENT  
 EACH COMPARTMENT SHALL BE TOTALLY  
 SEPARATE FROM EACH OTHER

TEE Baffles REQUIRED TO DIVERT INFLUENT  
 AWAY FROM IMPACTING THE PUMP

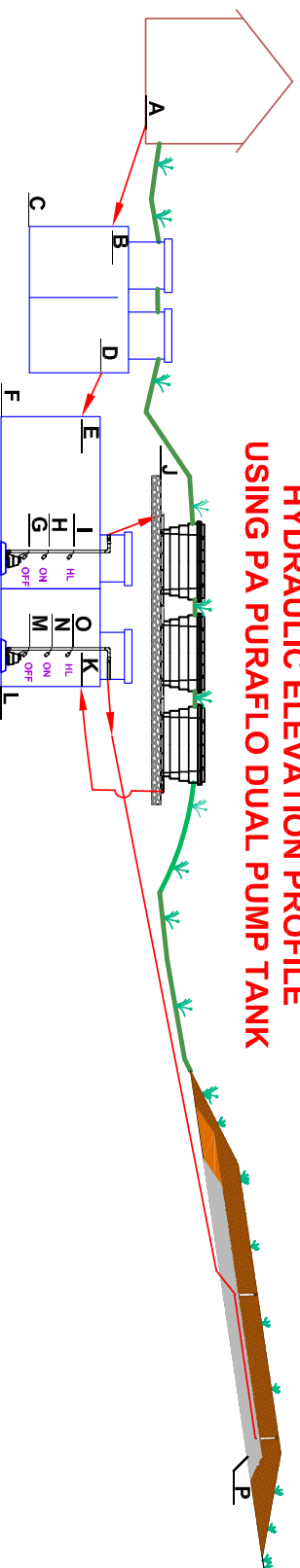
## HYDRAULIC ELEVATION PROFILE USING SEPARATE PUMP TANKS



- |   |                                  |   |   |
|---|----------------------------------|---|---|
| A | ' SEWER INVERT AT BUILDING       | I | ' HIGH LEVEL ALARM                          |
| B | ' SEPTIC TANK INLET INVERT       | J | ' PURAFLO MODULE INVERT                     |
| C | ' SEPTIC TANK INVERT             | K | ' DOSE TANK INLET INVERT                    |
| D | ' SEPTIC TANK OULET INVERT       | L | ' DOSE TANK INVERT                          |
| E | ' PURAFLO PUMP TANK INLET INVERT | M | ' PUMP OFF                                  |
| F | ' PURAFLO PUMP TANK INVERT       | N | ' PUMP ON                                   |
| G | ' PUMP OFF                       | O | ' HIGH LEVEL ALARM                          |
| H | ' PUMP ON                        | P | ' GROUND AT UPSLOPE EDGE OF ABSORPTION AREA |



## HYDRAULIC ELEVATION PROFILE USING PA PURAFLO DUAL PUMP TANK

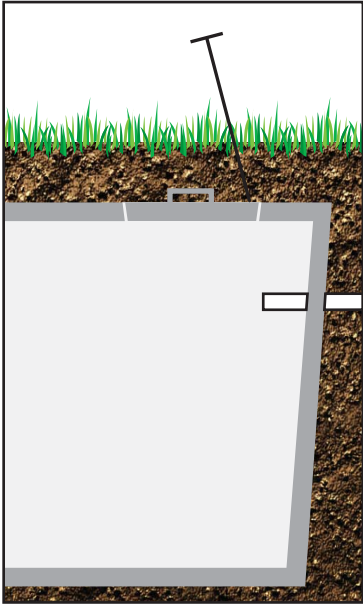


- |   |                                  |   |   |
|---|----------------------------------|---|---|
| A | ' SEWER INVERT AT BUILDING       | I | ' HIGH LEVEL ALARM                          |
| B | ' SEPTIC TANK INLET INVERT       | J | ' PURAFLO MODULE INVERT                     |
| C | ' SEPTIC TANK INVERT             | K | ' DOSE TANK INLET INVERT                    |
| D | ' SEPTIC TANK OULET INVERT       | L | ' DOSE TANK INVERT                          |
| E | ' PURAFLO PUMP TANK INLET INVERT | M | ' PUMP OFF                                  |
| F | ' PURAFLO PUMP TANK INVERT       | N | ' PUMP ON                                   |
| G | ' PUMP OFF                       | O | ' HIGH LEVEL ALARM                          |
| H | ' PUMP ON                        | P | ' GROUND AT UPSLOPE EDGE OF ABSORPTION AREA |

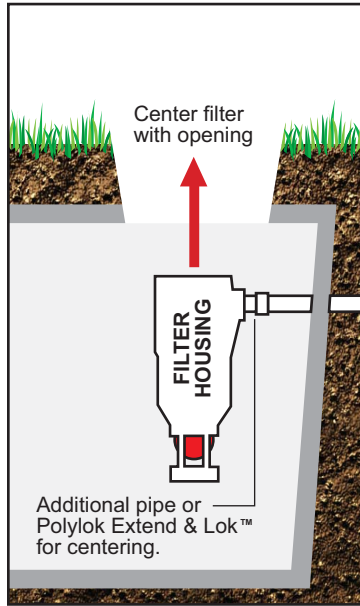
# INSTALLATION INSTRUCTIONS

## ~~PL-525~~/PL-625 FILTER

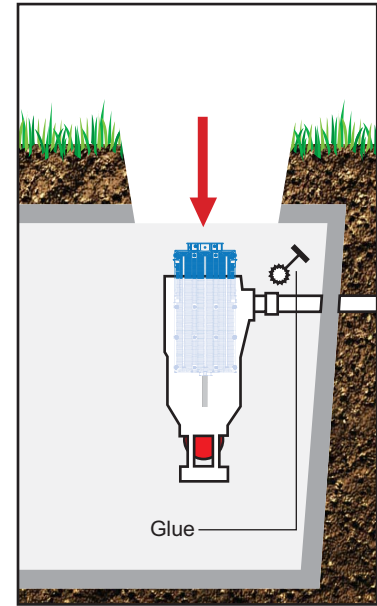
### INSTALLATION INSTRUCTIONS



- Step 1:**  
 (A) Locate the outlet of the septic tank.  
 (B) Remove tank cover and pump tank if necessary.

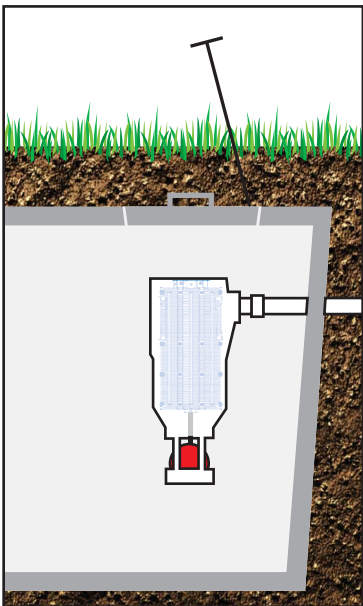


- Step 2:**  
 (A) Before installation, place the filter housing on to the outlet pipe.  
 (B) Make sure that the housing is positioned so the filter can be removed from the tank for maintenance and service.



- Step 3:**  
 (A) Glue the filter housing on the outlet pipe.  
 (B) Insert the filter cartridge in the housing, making sure the filter cartridge is properly aligned and completely inserted in the housing.

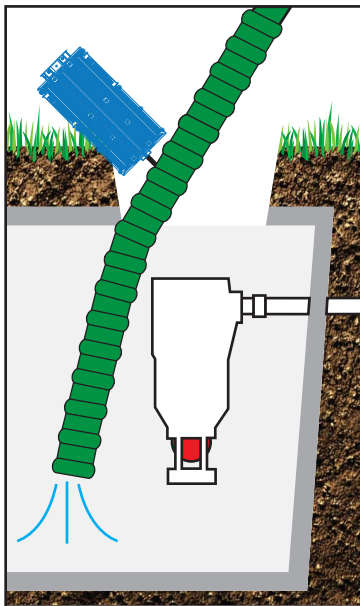
### MAINTENANCE INSTRUCTIONS



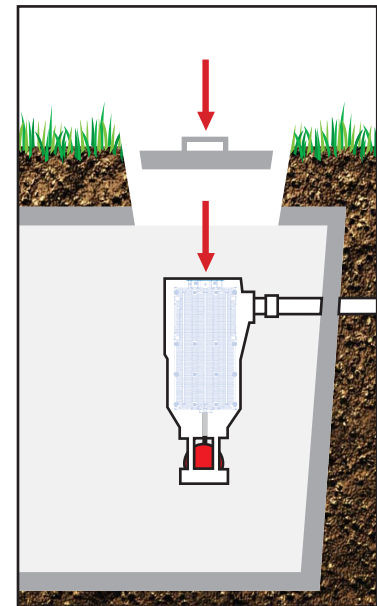
- Step 1:**  
 Locate the outlet of the septic tank.

**DO NOT USE PLUMBING  
 WHEN FILTER IS REMOVED**

**USE RUBBER GLOVES  
 WHEN CLEANING FILTER**



- Step 2:**  
 (A) Remove tank cover and pump if necessary.  
 (B) Pull the filter out of the housing.  
 (C) Hose off the filter over the septic tank. Make sure all solids fall back into the septic tank.



- Step 3:**  
 (A) Insert the filter cartridge back into the the housing making sure the filter is properly aligned and completely inserted.  
 (B) Replace septic tank cover

# INSTALLATION INSTRUCTIONS

## PL-525/PL-625 FILTER

### PL-525/PL-625 FEATURES & BENEFITS

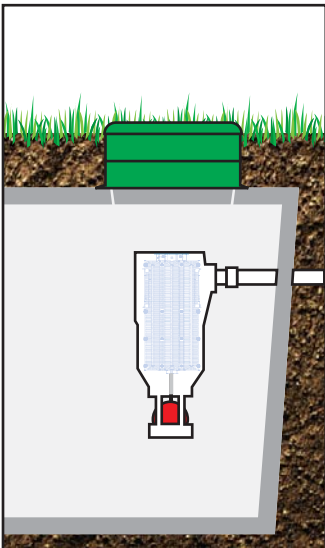


The PL-525/625 Effluent Filter should operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped or at least every three years. If the installed filter contains an optional alarm, the owner will be notified by an alarm when the filter needs servicing. Servicing should be done by a certified septic tank pumper or installer.

#### Features & Benefits:

- Rated for 10,000 GPD
- ~~PL-525 = 525 Linear Feet of 1/18" Filtration~~  
 PL-625 = 625 Linear Feet of 1/32" Filtration
- Accepts 4" and 6" SCHD. 40 pipe
- Built in Gas Deflector
- Automatic Shut-Off Ball when Filter is Removed
- Alarm Accessibility
- Accepts PVC Extension Handle

### RECOMMENDED PRODUCTS



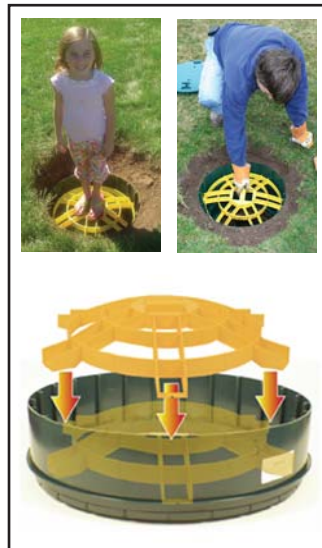
#### Risers & Riser Covers

Polylok risers bring your septic tank cover to grade. This allows locating and servicing your filter easier and time saving by eliminating digging to find tank entrance.



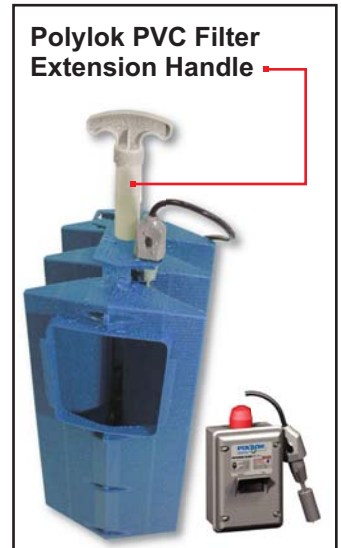
#### Extend & Lok™

Polylok Extend & Lok™ is a simple, easy to use solution that can extend the inlet or outlet pipe and make filter and/or baffle installation a snap. Fits 3" and 4" pipe.



#### Riser Safety Screens

Polylok safety screens prevent tragic accidents from happening by children and pets falling into open septic tank entrances.



#### Polylok PVC Filter Extension Handle Filter Alarm Panel and SmartFilter™ Control Switch

Polylok filter alarm panels and switches provide a visual and audible notification of impending filter and tank servicing.