

Puraflo[®]

Peat Fiber Biofilter

Polishing Filter Guidelines



Only modules bearing the NSF[®] logo and designated P150N*XX are certified to NSF/ANSI Standard 40



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The Puraflo Peat Fiber Biofilter may be used for polishing effluent from an aerobic treatment unit in lieu of a sand filter. The following conditions must be met:

Timed Dosing

- Timed dosing is recommended. Timed dosing requires a pump tank, pump, floats and a timed dose control panel. Dosing application intervals are dependent on the number of modules involved. Therefore, dosing regimes, pump sizing and tank sizing will be calculated on a site-by-site basis.
Note: No override capability of the normal timed dosing interval is allowed.

Effluent Filtration

- Effluent filtration is required prior to the Puraflo modules. Acceptable effluent filtration devices include the Sim/Tech Pressure Filter STF-100, Zabel A300, BEST GF10-32, Lifetime Filter LT9-1/32, and Polylok PL-625. Screen or disc filters that provide equivalent filtration may be used if approved by the secondary treatment device manufacturer.

Loading Criteria

- The maximum hydraulic load applied to the peat fiber media shall not exceed 70 gallons per person per day (EPA, 2002) and/or 280 gallons + ~10% per day per Puraflo module.
- The maximum aerobic treatment unit effluent concentrations applied to the peat fiber media shall meet the hydraulic and organic loading standards in the table below under "Sizing".

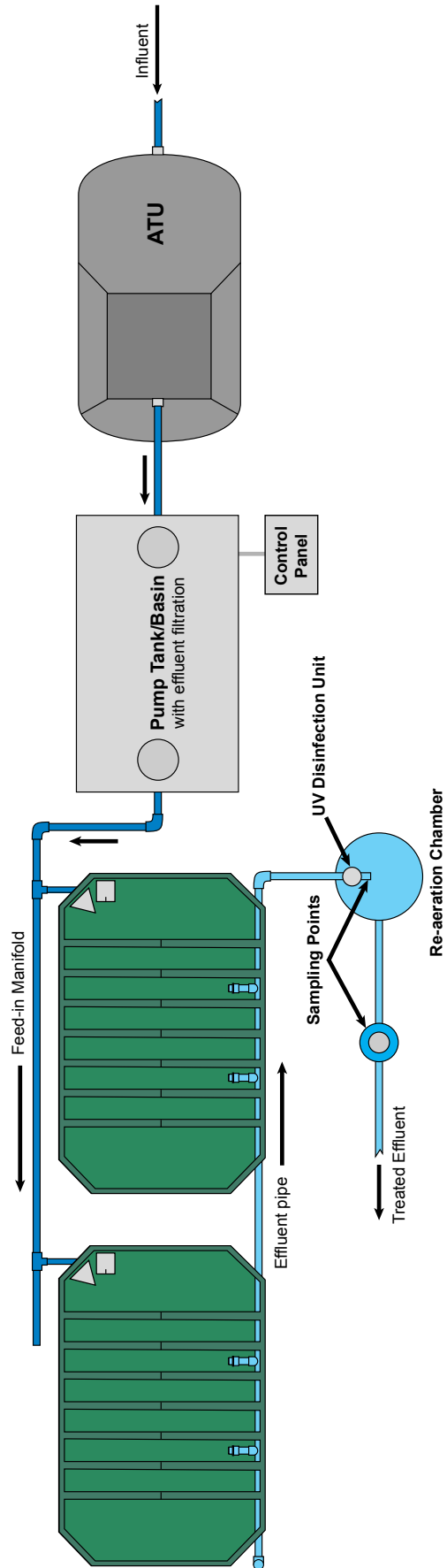
Sizing

- The minimum criteria used to size the Puraflo polishing filter is outlined below. More conservative sizing can be used if the designer deems it necessary.

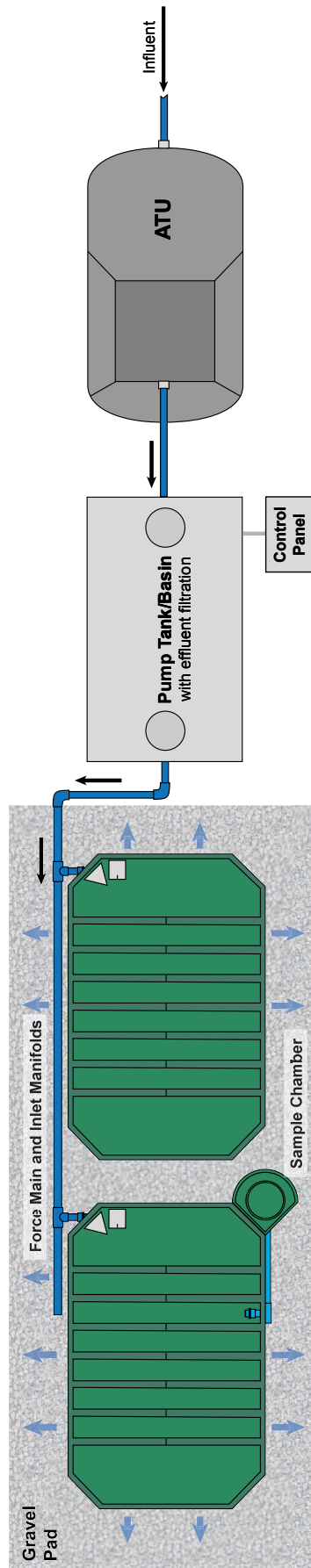
Occupants	Hydraulic Loading	Organic Loading	# Puraflo Modules
4	280 gpd + ~10%	0.2012 lbs/d	1
8	560 gpd + ~10%	0.4024 lbs/d	2
12	840 gpd + ~10%	0.6036 lbs/d	3
16	1120 gpd + ~10%	0.8048 lbs/d	4
20	1400 gpd + ~10%	1.006 lbs/d	5

Reference: U.S. Environmental Protection Agency. (2002). Onsite Wastewater Treatment Systems Manual. EPA/625/R-00/008. U.S. Environmental Protection Agency, Washington, D.C.

Typical Configuration
Puraflo Polishing Filter
Surface Discharge



Typical Configuration Puraflo Polishing Filter Type A Pad



Blue coded modules with weep holes and one green coded module with sampling chamber, drain into a stone pad for final treated effluent disposal. Pad dimensions can be selected to match site conditions and modules can be installed side-by-side as well as end-to-end (as shown here).