

## 300 Series Peat Moss Filter



Edward Festa, Joan Brooks, PhD and Jeffery Festa developed the Eco-Pure 300 Series Peat Filter throughout 1998. The system was designed based on the research conducted at the University of Maine during the 1980's and 1990's and especially the research conducted by Dr. Brooks.

Throughout her professional career, Dr. Brooks dedicated herself to study the use of sphagnum peat moss as a wastewater treatment media. In addition, Dr. Brooks researched the influence of fungus on the process of wastewater treatment.

In her paper Pollution Abatement with Peat Onsite Wastewater Treatment Systems, Dr. Brooks concludes:

*"On adverse sites, where the use of conventional subsurface soil adsorption systems does not provide acceptable levels of treatment, sphagnum peat moss may be used as an economical method of onsite wastewater treatment. The peat system, when properly designed and constructed, is relatively simple to install, requires minimal energy and maintenance, and provides a high quality effluent without additional disinfection".*



900 Gallon Per Day System

### Applications

- Single Family Homes
- Multi-Family Homes
- Apartment Complexes
- Churches
- Office Buildings
- Restaurants
- Seasonal Use Homes
- Water-Front Homes
- Small Lots
- High Groundwater

## Part Number 300-SS

### Features and Benefits

- Depending on site conditions the 300 Series Peat Moss Filter can cost 30% - 40% less than other advanced secondary treatment systems
- The system can be completely passive
  - No Electricity Needed for System
  - No Dosing Pumps Needed
- No additional charges for training or use
- Ease of Installation
- Lowest Cost of Operation
  - No Costly Blowers to Replace
  - No Excess Sludge Removal
- Low Cost of Maintenance
- Ease of Maintenance
- Can discharge into the following:
  - Pad / mound system
  - Gravity leach field
  - Pressure dosed leach field
  - Drip Irrigation System
  - Surface or water body *(if allowed, check local regulations)*
- Low profile, great for high water table
  - Will not float
- Great For Seasonal Use Homes
  - No ramp up time
  - No shut down procedures

### Design Procedures

The 300 Series Peat Moss Filter must be designed per the Eco-Pure Design, Installation and Maintenance Guide, January 2009. All systems incorporating the 300 Series Peat Moss Filter must be designed by a state registered Professional Engineer or a state approved system designer.

### Installation Procedures

The 300 Series Peat Moss Filter must be installed per the manufacturer's Installation Guide, February 2007. Only factory certified personnel may install the 300 Series Peat Moss Filter.

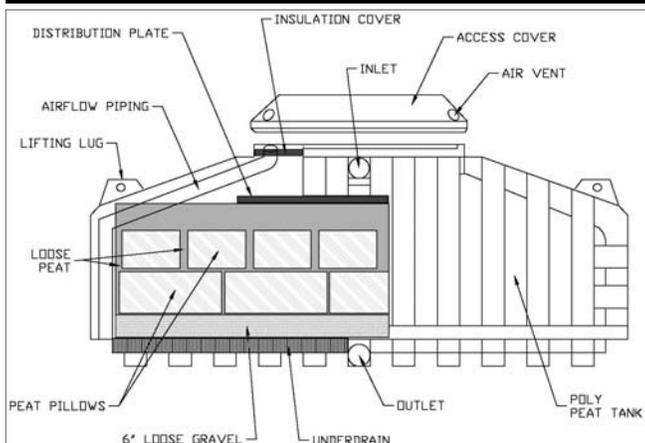
### Maintenance Procedures

Routine inspection and maintenance must take place at least once per year. Maintenance must be performed per the Eco-Pure Maintenance Manual, February 2007. Only factory certified personnel may perform maintenance.

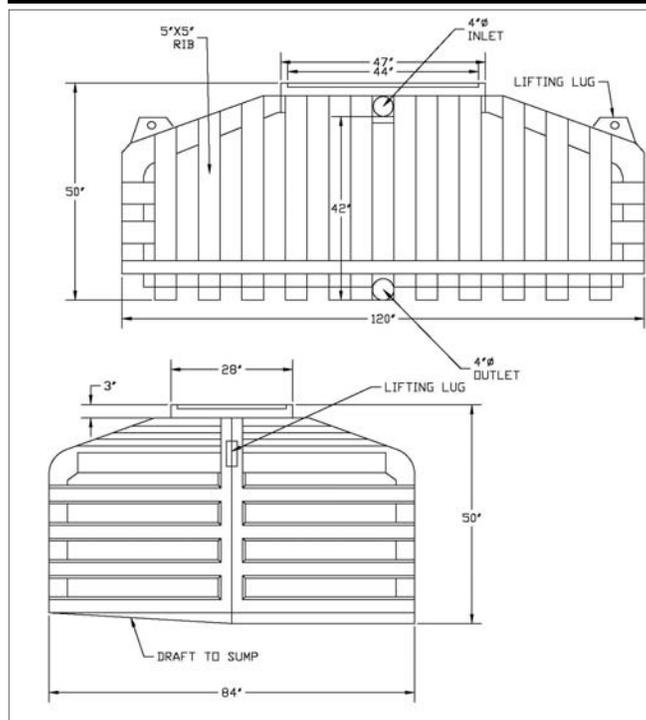
*Please refer to your state and/or local onsite wastewater treatment and disposal regulations for details pertaining to your systems design, installation and maintenance requirements.*

# 300 Series Peat Moss Filter

## Sectional View



## Outline Dimensions



## Ordering Information

Part Number	300-SS
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## Dimensions

Length	Width	Height
120"	84"	50"

## Treatment Capacity

Parameter	Capacity
GPD	600 maximum peak flow
BOD5	240 mg/L
TSS	176 mg/L

*\*Up to a 4 bedroom home, 3,200 square feet or less  
\*Wastewater characteristics described as residential strength waste*

## Hydraulic Loading Rates

Gallons Per Day	GPD/ft. <sup>2</sup> /day
300	4.29
450	6.43
600	8.57

## Maximum Biochemical Loading Rates

(BOD5 Influent = 240 mg/L)

Gallons Per Day	Lbs./BOD/ft. <sup>2</sup> /day
300	.008583
450	.012878
600	.017166

## 300 Series Peat Moss Filter Component Materials

Part Number	Quantity	Description
NA	1	HDPE Module and Cover
EPA IC-109	1	Insulation Cover
EPA PP-99	41	Sphagnum Peat Moss Pillows
EPA PP-105	10	Sphagnum Peat Moss Bags
EPA DP-107	1	HDPE Distribution Plate
EPA FC-146	1	4" x 2" Inlet Pipe Assembly
NA	1	4" Discharge Pipe and Vent Pipe

In order to provide the best product possible, specifications and requirements are subject to change.

Patent #: US 6,620321 B2

EPPS300SS (1/09)