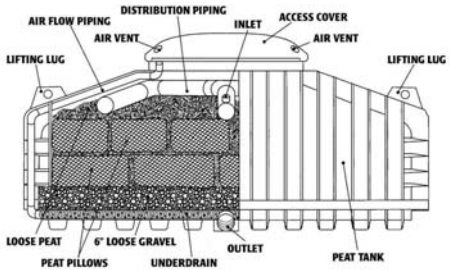
# 300 SERIES PEAT MOSS FILTER
## Technical Information and Specifications

*The Pure Choice In Treatment Systems*

**300 Series Peat Moss Filter Component Materials**

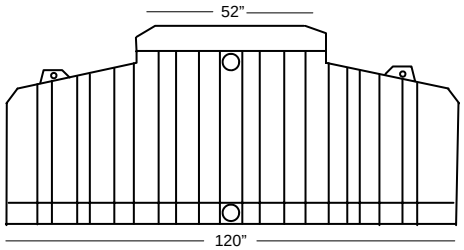
- 1 - Eco-Pure HDPE module and cover
- 1 - Insulation cover (white)
- 42 - Sphagnum peat moss pillows (green bags)
- 10 - Loose bags of sphagnum peat moss (white bags)
- 1 - Distribution plate
- 1 - 4" x 2" Inlet pipe assembly
- 1 - 4" Black corrugated discharge pipe and air vent pipe



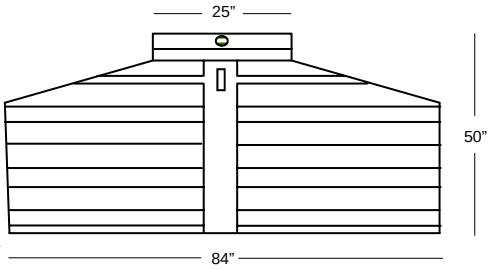

| Dimensions | | |
|---|---|---|
| **Length** | **Width** | **Height** |
| 120" | 84" | 50" |

| Treatment Capacity | |
|---|---|
| **Parameter** | **Capacity** |
| GPD | 600 |
| 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*




**Front View**




**Side View**

**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.

**Operating Procedures**

To ensure proper performance of the 300 Series Peat Moss Filter the system should be operated per the 300 Series Peat Moss Filter Owners Manual.

**<u>300 Series Peat Moss Filter Specifications</u>**

**1. Eco-Pure Module and Cover**

Each 300 Series Peat Moss Filter module shall be constructed of high density polyethylene (HDPE) and manufactured using the rotational molding process. The color of the module shall be blue and the empty weight is 550 lbs. The dimensions of the module shall be 120" x 84" x 50" (L x W x H). The inlet elevation is 42". The outlet is at the bottom of the module or 0".

The module shall be drafted at the bottom towards the center of the module and shall contain a 4" black slotted corrugated pipe which acts as the discharge manifold and air vent.

The module shall have a green HDPE cover (lid). The cover is 52" x 25" (L x W) and must be exposed for accessibility. The module must be placed on a minimum of 6" of stone.

**2. Insulation Cover**

The insulation cover shall be a hard backed Styrofoam sheet 24" x 43" x 2" (W x L x H). The insulation cover shall rest on top of the 1-1/2" PVC support pipes in the module man-way, below the cover / lid.

**3. Sphagnum Peat Moss**

Each 300 Series Peat Moss Filter shall have the following amount of proprietary sphagnum peat moss:

**a. Peat Moss Pillows**

The pillows shall be mesh, polypropylene, non-degradable bags filled with proprietary sphagnum peat moss. The pillows shall be filled to the appropriate amount at Eco-Pure's facility.

Each module shall contain forty-two (42) pillows. Each pillow weighs between 35 - 40 lbs. The pillows will fit together without any void space. The pillows shall be placed in two rows, perpendicular to each other, one on top of the other.

**b. Peat Moss Bales**

In order to fill in any potential void spaces between the pillows, each module shall contain ten (10) loose peat moss bales. Three (3) bales shall be placed, spread and leveled over the first row of peat pillows. Seven (7) bales shall be placed, spread and leveled over the top row of peat pillows.

The peat moss pillows and bails are placed on a pallet and shrink wrapped. One module contains one pallet of peat.

**4. Inlet Pipe**

Each 300 Series Moss Filter shall contain a 4" PVC inlet pipe reduced to 2", with a 90 degree fitting. The inlet pipe shall be connected to the gravity or pressure fed sewer pipe entering the Eco-Pure module using the provided rubber coupling. The bottom of the inlet pipe shall be elevated 6" above the distribution plate.

**5. Distribution Plate**

Each 300 Series Moss Filter shall contain a distribution plate constructed of high density polyethylene (HDPE) and manufactured using the rotational molding process. The color of the distribution plate shall be white.

The dimensions of the distribution plate shall be 66-1/2" x 20-1/2" (L x W). The distribution plate rests directly on top of the leveled sphagnum peat moss.

The distribution plate shall be corrugated and shall contain thirty-nine (39), 1/2" discharge holes placed 6" apart. Thirteen (13) discharge holes are placed in each of the distribution plate's three (3) troughs.

**6. Discharge Piping and Air Vent**

The discharge piping and air vent shall be 4" slotted pipe placed in the sump channel located in the bottom of the module. This discharge piping shall be bedded in 1" - 2" diameter non-reactive, clean river rock. The discharge piping shall run beneath the peat bed and shall be connected at the top of the module allowing for passive movement of air throughout the entire peat bed.

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Waste Water Systems
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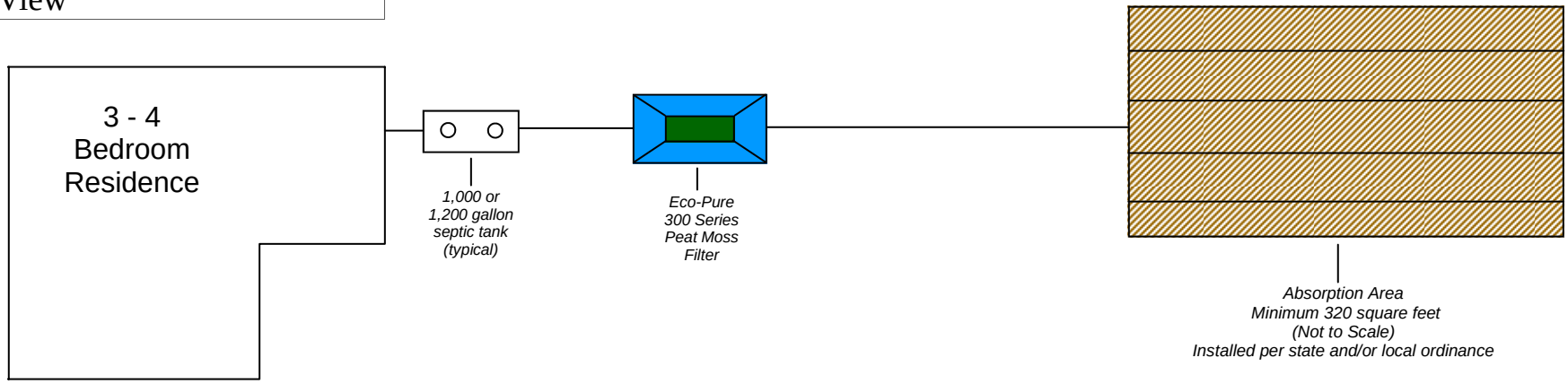
# 300 SERIES PEAT MOSS FILTER

Example 3 - 4 Bedroom Home

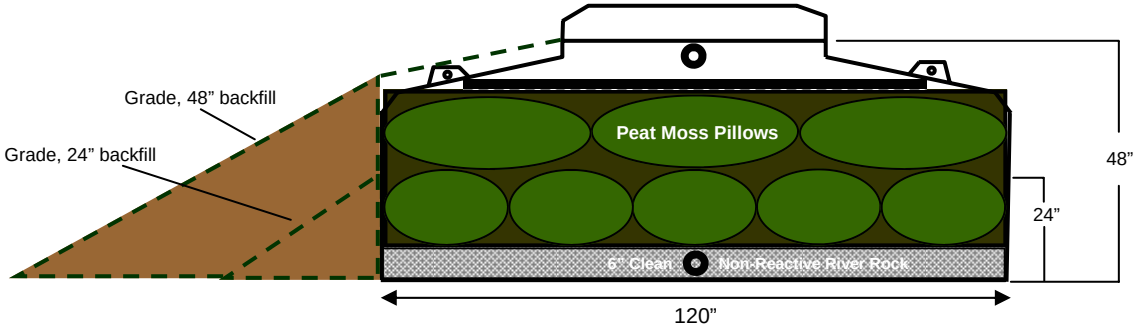
Gravity System

*Not to Scale*

## Plan View




## Sectional View




- Module may sit on native soil
- Eco-Pure cover (lid) must be exposed
- Backfill grade away from module, clean backfill only, sod or seed immediately to limit erosion
- Module may be backfilled with 24" - 48"

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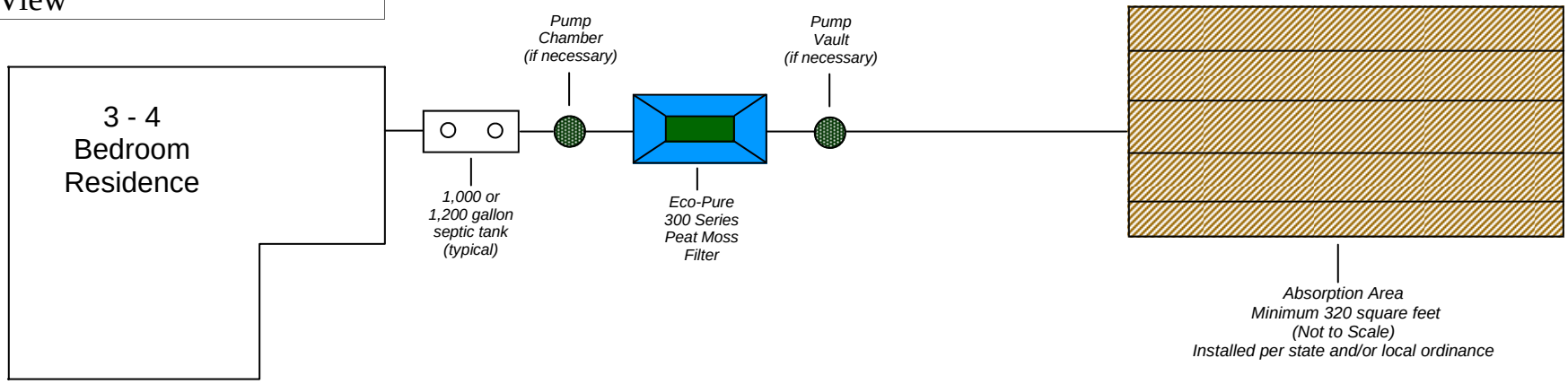
# 300 SERIES PEAT MOSS FILTER

**E**xample 3 - 4 Bedroom Home

*Not to Scale*

## Plan View

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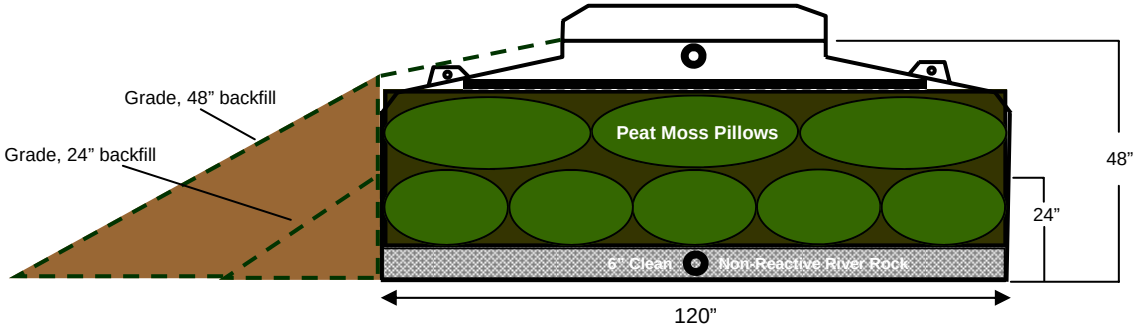


- Module may sit on native soil
- Eco-Pure cover (lid) must be exposed
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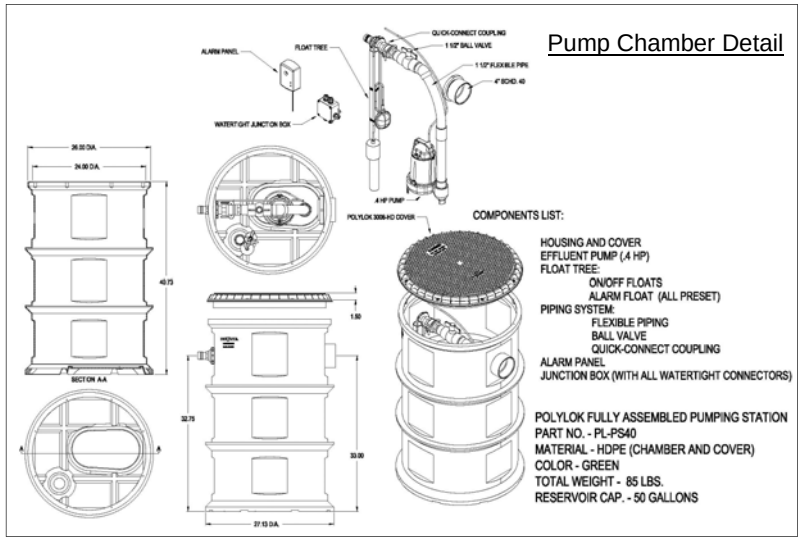
- Module may be backfilled with 24" - 48"



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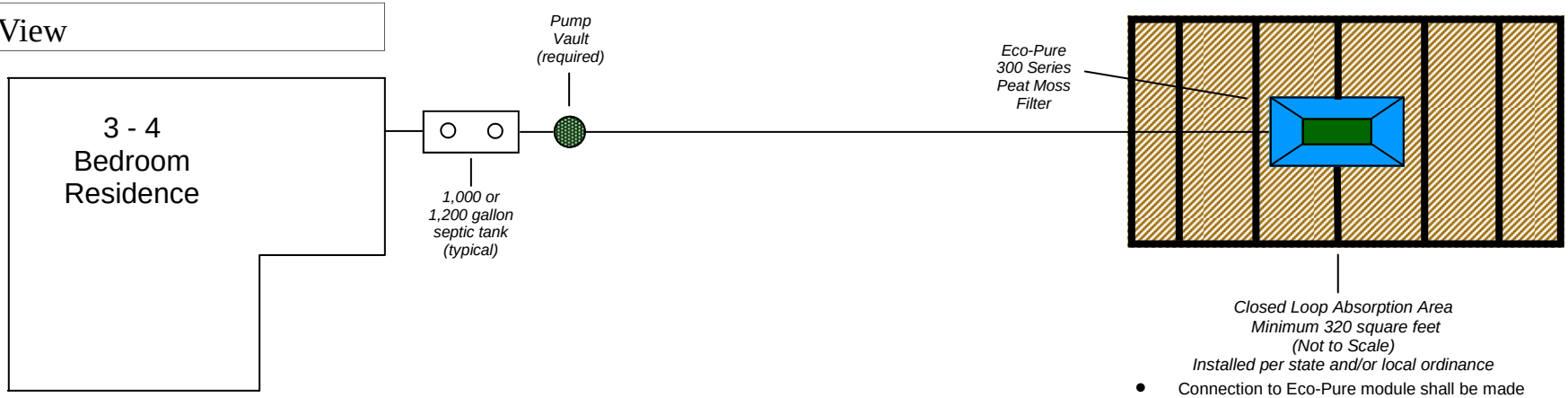
## Example 3 - 4 Bedroom Home

*Not to Scale*

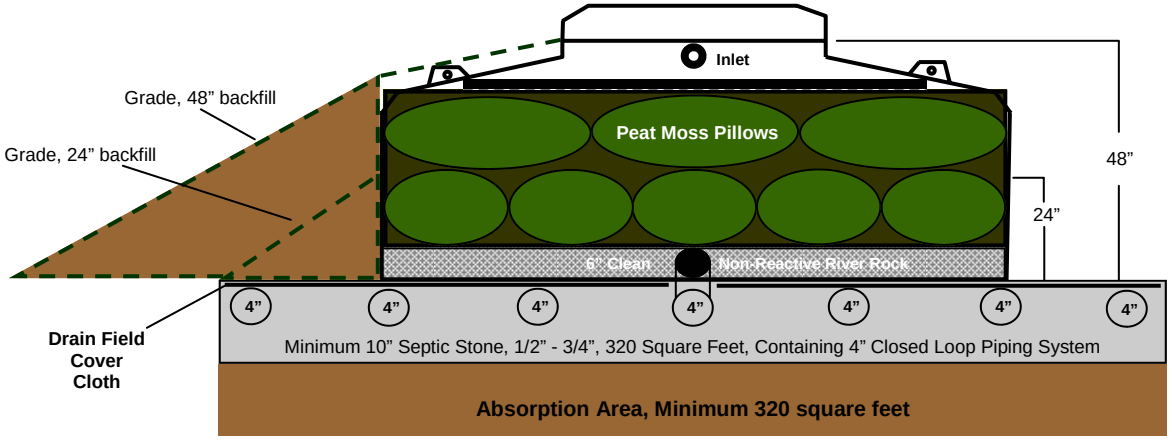
## Plan View



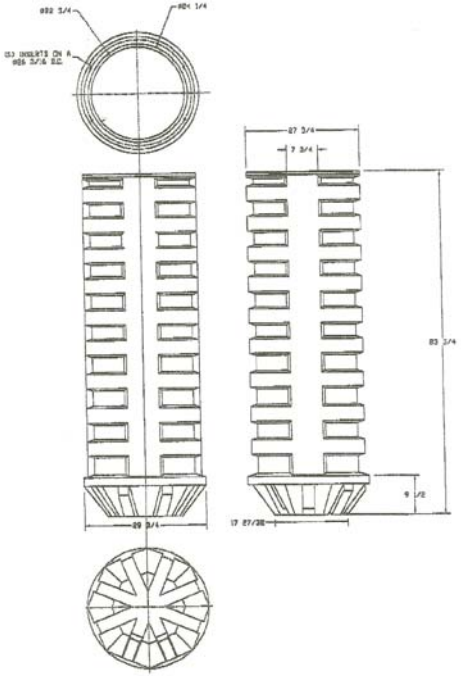

*Closed Loop Absorption Area*
*Minimum 320 square feet*
*(Not to Scale)*
*Installed per state and/or local ordinance*

- Connection to Eco-Pure module shall be made with a 4" x 4" rubber coupling, butyl mastic placed around seam
- Piping shall be 4" perforated with 5/8" holes
- Pipe shall be PVC or corrugated plastic pipe

## Sectional View *(not to scale)*




- Eco-Pure cover (lid) must be exposed
- Backfill grade away from module, clean backfill only, sod or seed immediately to limit erosion
- Module may be backfilled to 24" - 48"



### Pump Vault Detail

1. The Pump Vault shall be high density polyethylene.
2. The pump vault lid must be at grade.
3. The pump shall be of an incremental horsepower ranging from 4/10 to 1/2 hp.
4. The pump shall dose on demand by use of a tethered or vertical float switch.
5. An audio visual alarm must be installed to notify of pump failure.

June 2007