



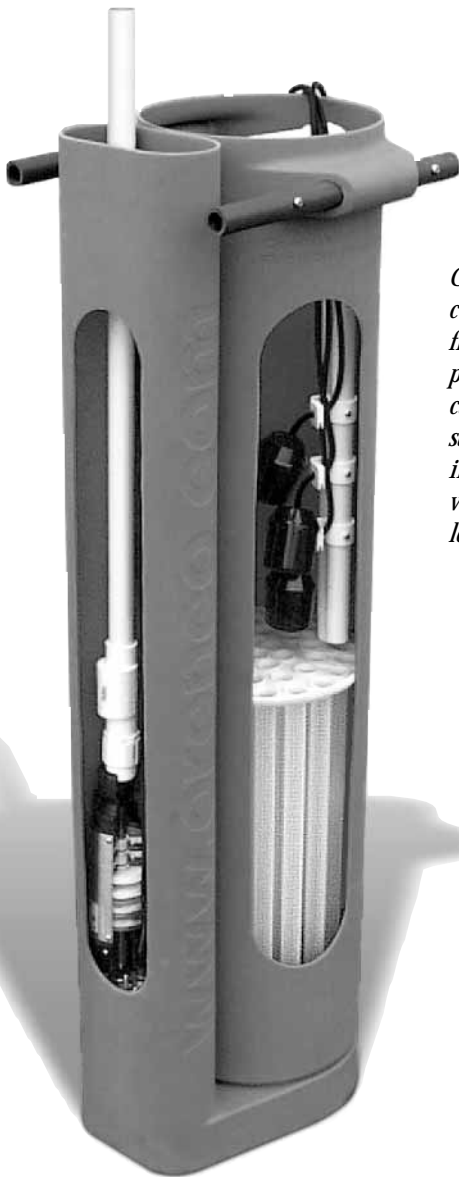
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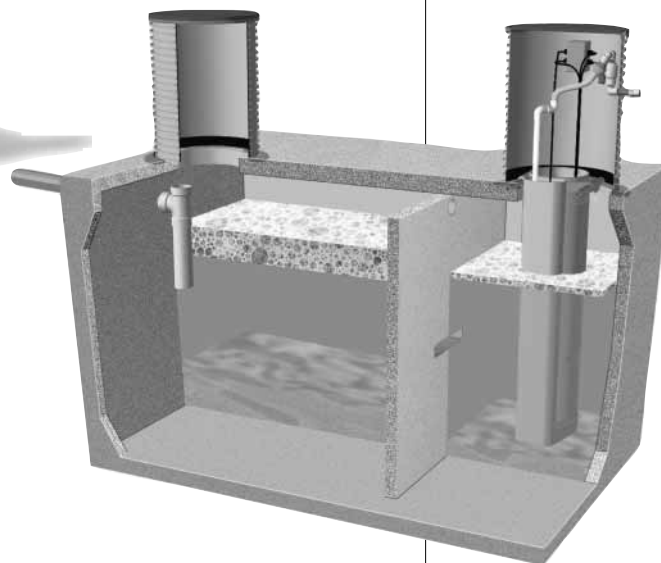
# Biotube<sup>®</sup> Pump Vault

## Applications

Orenco's patented\* Biotube Pump Vaults are ideal for filtering and transporting effluent from septic tanks or separate dosing tanks in effluent pumping systems. They prevent large solids from leaving the tank, dramatically improving wastewater quality and extending the life of downstream treatment systems. Each pump vault houses either one (Simplex) or two (Duplex) High Head Effluent Pumps, discharge assembly(ies), Biotube filter cartridge, float switch assembly, and float stem bracket. Pump(s), float switch assembly, and discharge assembly(ies) are ordered separately.



*Orenco's Biotube Pump Vault comes with Biotube filter cartridge, float stem bracket, and support pipes. The unique Biotube filter cartridge provides a large filter surface area (see specs. on back) in a small space, to resist clogging while providing maximum long-term protection.*



## Standard Features & Benefits

- Installs quickly in new or existing tanks
- Easy access design allows filter cartridge removal without pulling the pump or vault; simplifies filter inspection and maintenance
- Patented Biotube filter has several times the filtering capacity of other pump vaults
- Removes approximately two-thirds of suspended solids, on average
- Accommodates Simplex or Duplex configuration, for use with one or two pumps
- Float stem bracket allows easy removal and adjustment of float assembly
- Sturdy, molded polyethylene and corrosion-proof construction ensure long life

## Biotube Filtering Process

Effluent from the relatively clear zone of the septic tank, between the scum and sludge layers, enters the Biotube Pump Vault through inlet holes in the housing. Effluent then

enters the annular space between the housing and the Biotubes, utilizing the Biotubes' entire surface for filtering. Particles larger than the Biotube's mesh are prevented from leaving the tank.

\*Covered by patent numbers 5,492,635 and 4,439,323



## Model Code for Ordering

### Biotube® Pump Vault

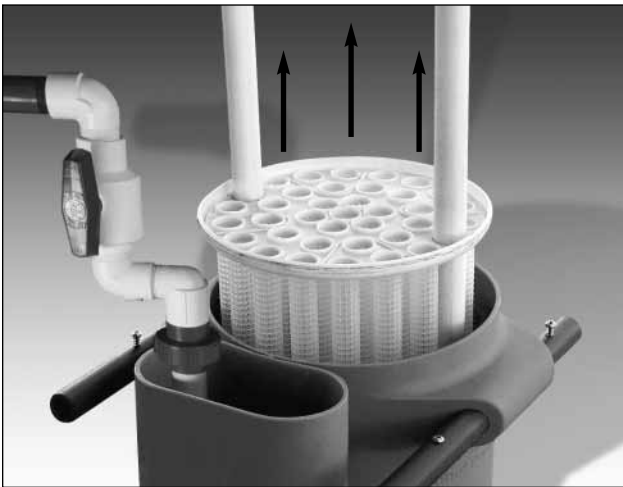
PVU   -

Indicates inlet hole height: (inches)

Cartridge height: 18", 24", 36" standard

Vault height: 57", 66"-96" in 6" increments

Universal Pump Vault



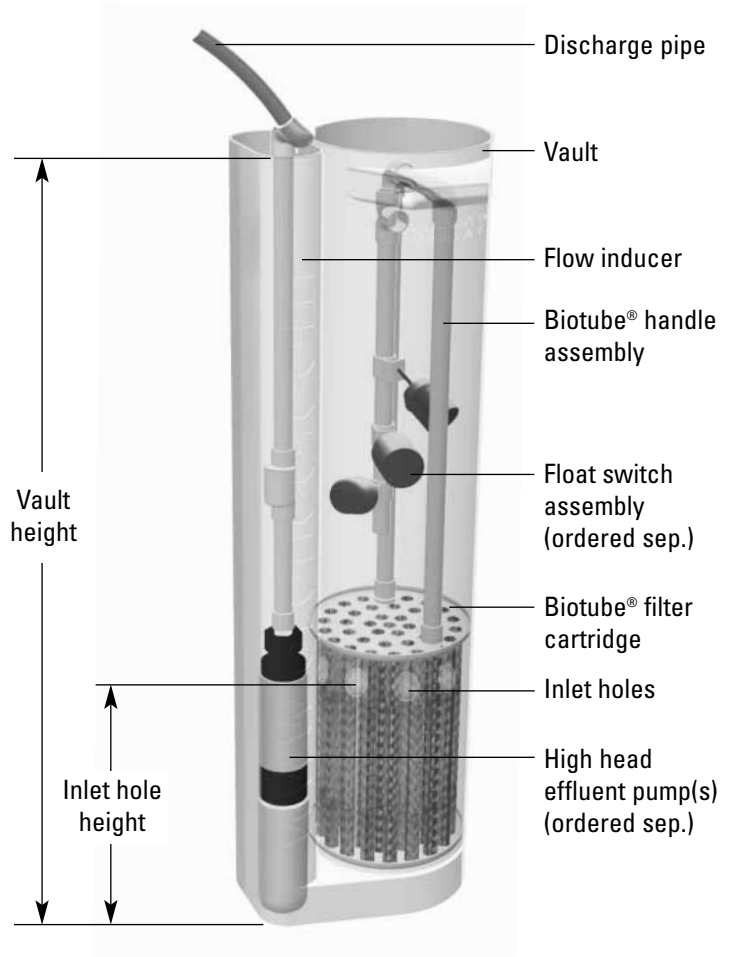
*Easy access design allows filter cartridge removal without pulling the pump or vault; simplifies filter inspection and maintenance*

### Biotube Cartridge Effective Filter Surface Area

Cartridge Height	12" Diameter
18"	15.5 ft <sup>2</sup>
24"	20.6 ft <sup>2</sup>
36"	30.9 ft <sup>2</sup>

*Orenco's Biotube Pump Vault is available in standard and customized configurations. Contact Orenco or your nearest distributor for sizing recommendations.*

## Biotube Pump Vault Components



## To Order

Call your nearest Orenco Systems®, Inc. distributor.  
For nearest distributor, call Orenco at 1-800-348-9843 or go to [www.orenco.com](http://www.orenco.com) and click on "Distributor Locator."

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## Tank Access and Riser Diameter

Biotube Series	Tank Access Dia. Minimum	Tank Access Dia. Recommended	Riser Dia. Minimum
PVU w/Simplex Pump	19"	20"	24"
PVU w/Duplex Pumps	19"	20"	30"

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