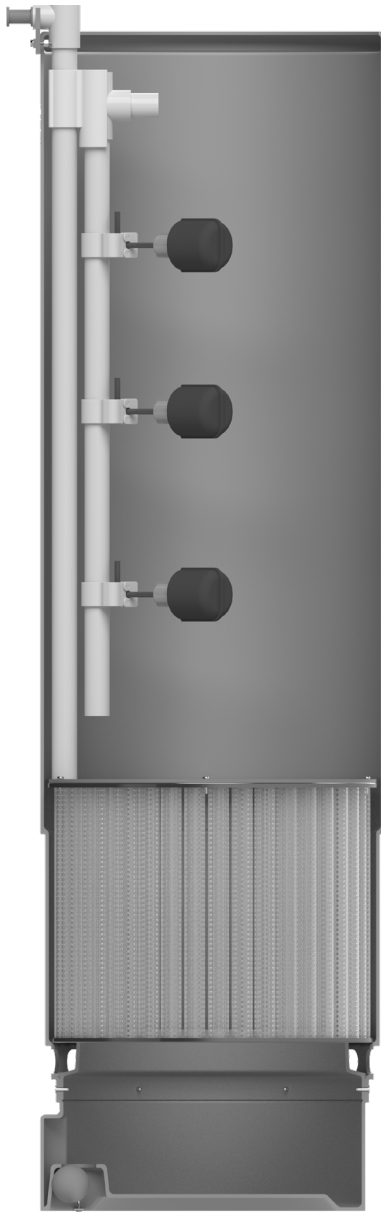


# Biotube® Low-Head Pump Vaults

## Applications

Orenco's patent-pending Biotube Low-Head Pump Vaults are designed to filter and pump effluent from a two-compartment septic tank or dose tank to an on-site wastewater disposal system. These vaults house one Biotube effluent filter, one low-head effluent pump, and one float switch assembly. They are designed to fit in tank openings of 18in (457mm) to 21in (533mm) with a riser of at least 24in (600mm) nominal diameter.



Biotube Low-Head Pump Vault with float switch assembly (sold separately),  
cross-sectional side view

## General

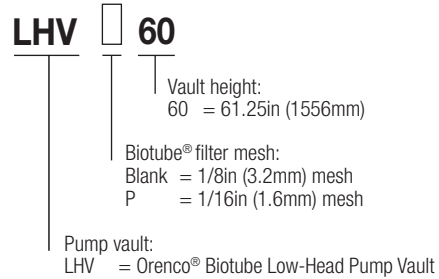
The Orenco Biotube Low-Head Pump Vault includes an earless, molded polyethylene housing with an internal Biotube filter cartridge constructed of polypropylene and PVC. The passively self-cleaning design extends maintenance cycle intervals.

For more information on float switches, see [Float Switch Assemblies Technical Data Sheet, NTD-GOP-FSA-1](#).

## Standard Models

LHV60, LHVP60

## Product Code Diagrams



### Pump Vault

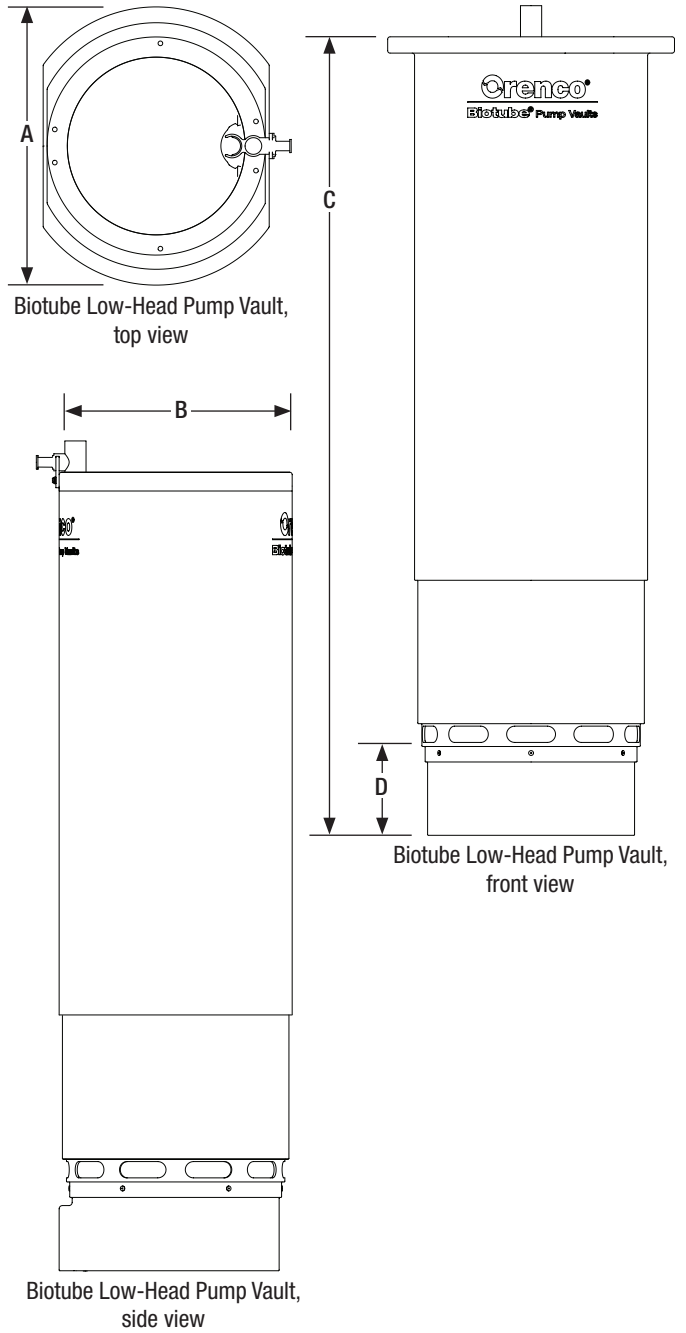
Orenco's Biotube Low-Head Pump Vault is designed to be passively self-cleaning for reduced maintenance and service needs.

#### Materials of Construction

Vault body	Polyethylene
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#### Vault Dimensions, in (mm)

<b>A</b>	22 (559)
<b>B</b>	17.88 (454)
<b>C</b>	61.25 (1556)
<b>D</b> Inlet height	7.13 (181)



## Biotube Effluent Filter

The Orenco Biotube Low-Head Pump Vault filter is designed for effective filtration of effluent and passive self-cleaning for longer cleaning intervals.

### Materials of Construction

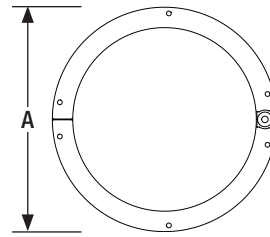
End plates	DCPD
Filter tubes	Polypropylene
Handle assembly	Sch. 40 PVC
Screws	Stainless steel

### Dimensions in (mm)

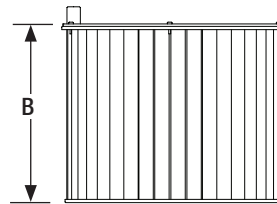
<b>A</b>	16.69 (424)
<b>B</b>	13.5 (343)

### Performance

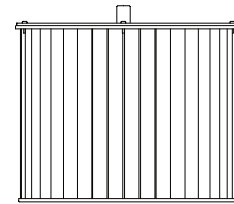
Biotube mesh opening, in (mm)	0.125 (3)
Total filter flow area, ft <sup>2</sup> (m <sup>2</sup> )	3.78 (0.35)
Total filter surface area, ft <sup>2</sup> (m <sup>2</sup> )	12.5 (1.16)



Biotube Low-Head Pump Vault filter cartridge, top view



Biotube Low-Head Pump Vault filter cartridge, side view



Biotube Low-Head Pump Vault filter cartridge, front view