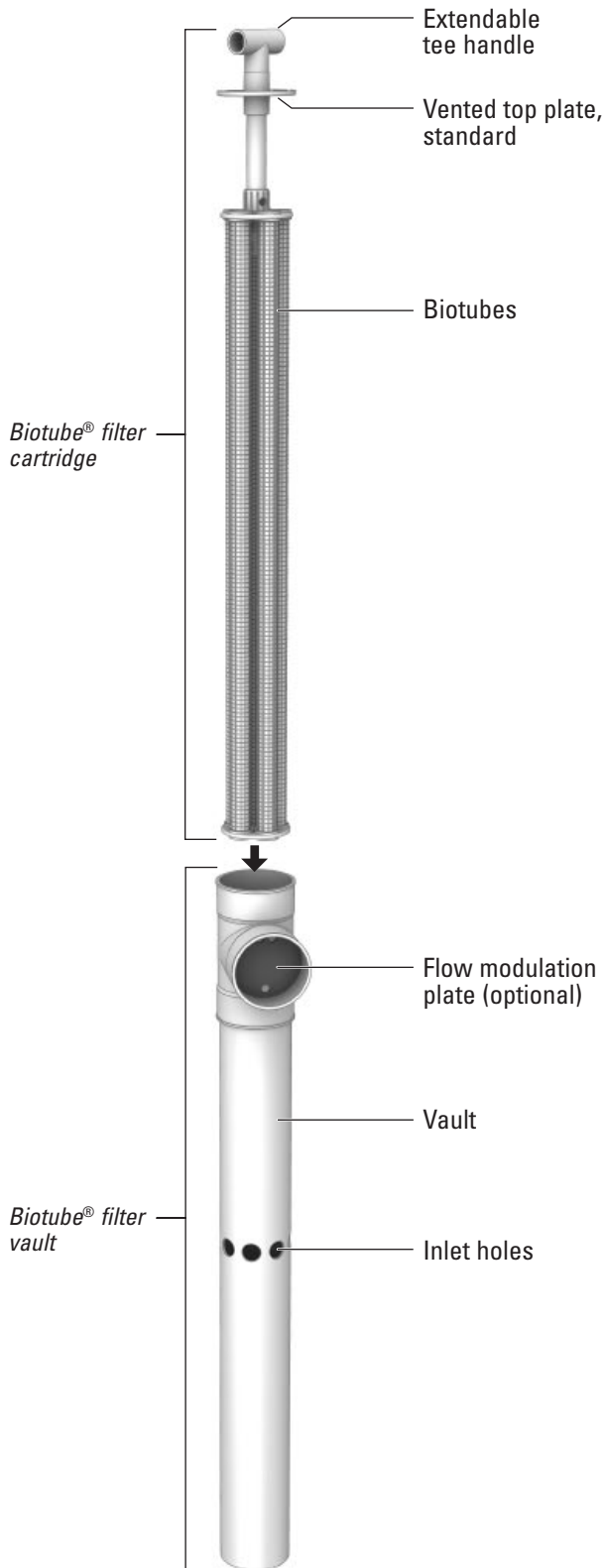


4-inch (100-mm) Biotube® Effluent Filters



Applications

Orenco® 4-inch Biotube® Effluent Filters are designed to remove solids from effluent leaving residential septic tanks. They can be used in new and existing tanks at flows of up to 1200 gpd.

General

Orenco 4-inch Biotube Effluent Filters (U.S. Patents No. 4,439,323 and 5,492,635) are used to improve the quality of effluent exiting a septic tank in a residential septic system. Increased effluent quality improves system performance and extends drainfield life.

The Biotube cartridge fits tightly in the vault and is removable for maintenance. The tee handle can be extended for easy removal of the cartridge.

Standard Models

FTS0444-36, FTS0444-36M, FTW0436-28, FTW0436-28M

FTW0444-36, FTW0444-36M

Product Code Diagram

FT 04 - -

Flow modulator and float switch bracket options:
 Blank = no options selected
 M = flow modulation plate installed
 A = float switch bracket installed

Cartridge height, in. (mm):
 28 = 28 (711), standard
 36 = 36 (914), standard

Filter housing height, in. (mm):
 36 = 36 (914), standard
 44 = 44 (1118), standard

4-in. (100-mm) filter diameter

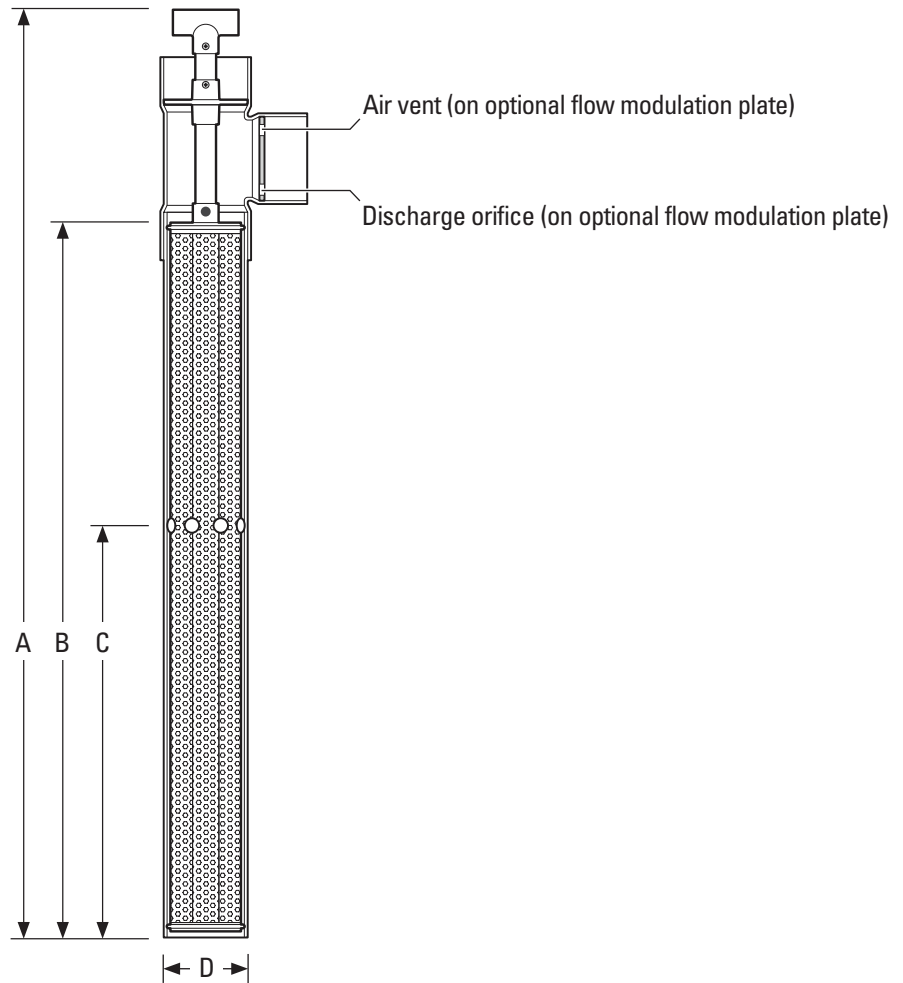
Outlet tee:
 W = fits Type 3034 outlet tee
 S = fits Schedule 40 outlet tee

Filter mesh option:
 Blank = 1/8-in. (3-mm) filter mesh
 P = 1/16-in. (1.6-mm) filter mesh

Biotube® effluent filter

Materials of Construction

Vault	PVC
Biotube® cartridge	Polypropylene and polyethylene
Handle components	PVC, polyethylene, stainless steel



Specifications

Model	FTS0444-36 / FTS0444-36M FTW0444-36 / FTW0444-36M	FTW0436-28 / FTW0436-28M
A - Vault height, in. (mm)	44.00 (1118)	36.00 (914)
B - Cartridge height, in. (mm)	36.00 (915)	28.00 (710)
C - Inlet hole height,* in. (mm)	21.25 (540)	19.25 (489)
D - Nominal diameter, in. (mm)	4.00 (100)	4.00 (100)
Number of inlet holes	8	8
Inlet hole diameter, in. (mm)	1.13 (29)	1.13 (29)
Number of discharge orifices	1 or 2 [†]	1 or 2 [†]
Discharge orifice diameter, in. (mm)	4.00 or 0.25 (100 or 6) [†]	4.00 or 0.25 (100 or 6) [†]
Discharge coupling diameter, in. (mm)	4.00 (100)	4.00 (100)
Number of air vents	1	1
Air vent diameter, flow modulation plate, in. (mm)	0.50 (13)	0.50 (13)
Filter surface area, [‡] ft ² (m ²)	5.1 (0.50)	3.9 (0.40)
Flow area, ^{**} ft ² (m ²)	1.5 (0.15)	1.2 (0.12)

* Inlet hole height can vary depending on the configuration of the tank. Optimum hole height is 70% of the minimum liquid level.

[†] Available on optional flow modulation plate.

[‡] Filter area is defined as the total surface area of all individual Biotubes® within the filter cartridge.

** Flow area is defined as the total open area (or area of the mesh openings) of all the individual Biotubes within the filter cartridge.