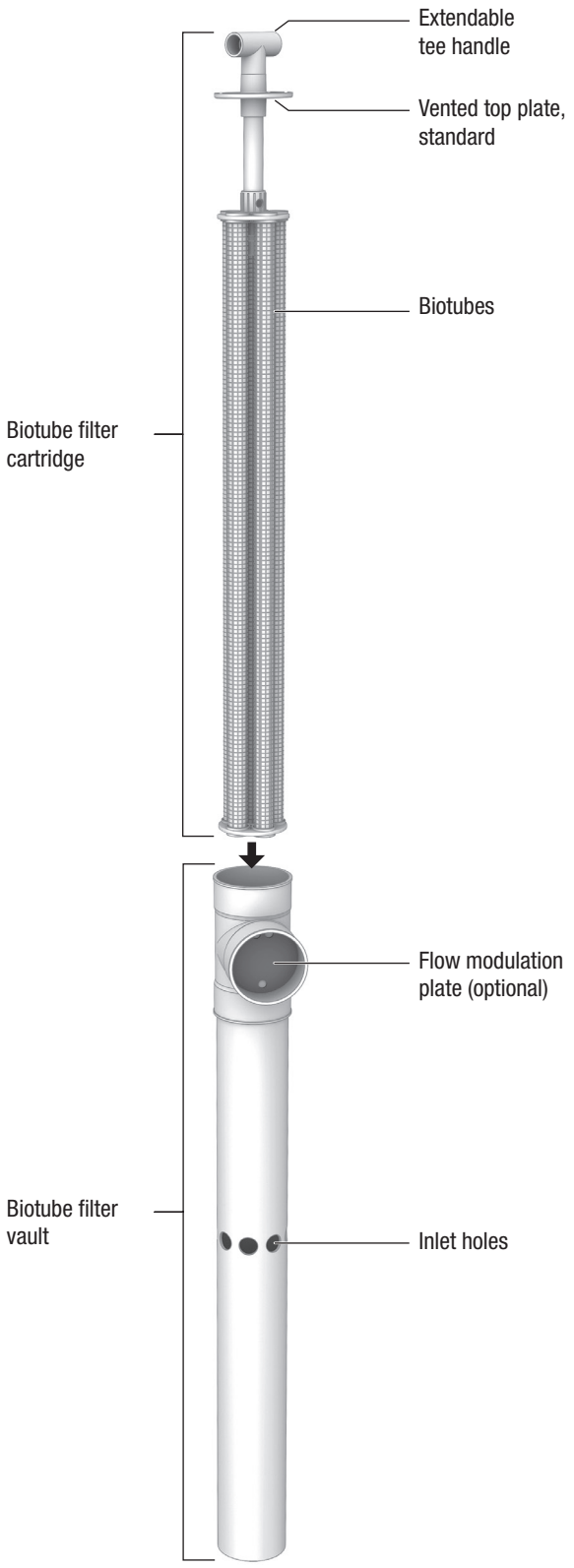
# Biotube® FT-Series 4in (100mm) Effluent Filters




## Applications

Orenco Biotube FT-Series 4in (100mm) 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 1200gpd (4.54m$^3$/day).

## General

Biotube FT-Series 4in (100mm) Effluent Filters 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. An optional flow modulation plate is also available.

## Standard Models

FTS0444-36, FTS0444-36M, FTW0436-28, FTW0444-36, FTW0444-36M

## Product Code Diagram

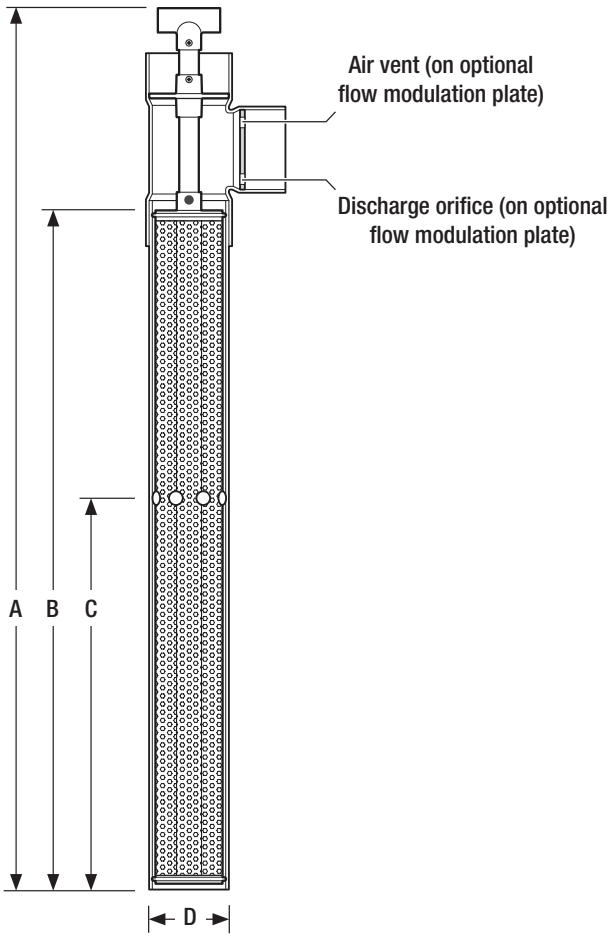
**FT □ □ 04 □ - □ - □**

- 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
- 4in (100mm) filter diameter
- Outlet tee:
  S = fits Schedule 40 outlet tee
  W = fits Type 3034 outlet tee
- Filter mesh option:
  Blank = 1/8in (3.2mm) filter mesh
  P = 1/16in (1.6mm) filter mesh
- Orenco® Biotube® FT-Series Effluent Filter

***Not all product code configurations may be available as standard products.***

## Materials of Construction

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




Biotube filter cartridge inside Biotube filter vault with optional flow modulation plate installed: side-cutaway view

## Optional Flow Modulation Plate Specifications

| | |
|---|---|
| Number of discharge orifices | 2 |
| Discharge orifice diameter, in (mm) | 1/2 (13) |
| Number of air vents | 1 |
| Air vent diameter, in (mm) | 1/2 (13) |

## Specifications

| Model | | FTS0444-36, FTW0444-36 | FTS0436-28, FTW0436-28 |
|---|---|---|---|
| **A** | Vault height, in (mm) | 44 (1118) | 36 (914) |
| **B** | Cartridge height, in (mm) | 36 (914) | 28 (711) |
| **C** | Inlet hole height*, in (mm) | 21 1/4 (540) | 19 1/4 (489) |
| **D** | Nominal diameter, in (mm) | 4 (100) | 4 (100) |
| | Number of inlet holes | 8 | 8 |
| | Inlet hole diameter, in (mm) | 1.13 (29) | 1.13 (29) |
| | Discharge coupling nominal diameter, in (mm) | 4 (100) | 4 (100) |
| | Filter surface area†, $ft^2$ ($m^2$) | 5.1 (0.50) | 3.9 (0.36) |
| | Flow area‡, $ft^2$ ($m^2$) | 1.5 (0.14) | 1.2 (0.11) |

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

*† Filter surface 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 (area of the mesh openings) of all the individual Biotubes within the filter cartridge.*