Commercial Biotube® Effluent Filters

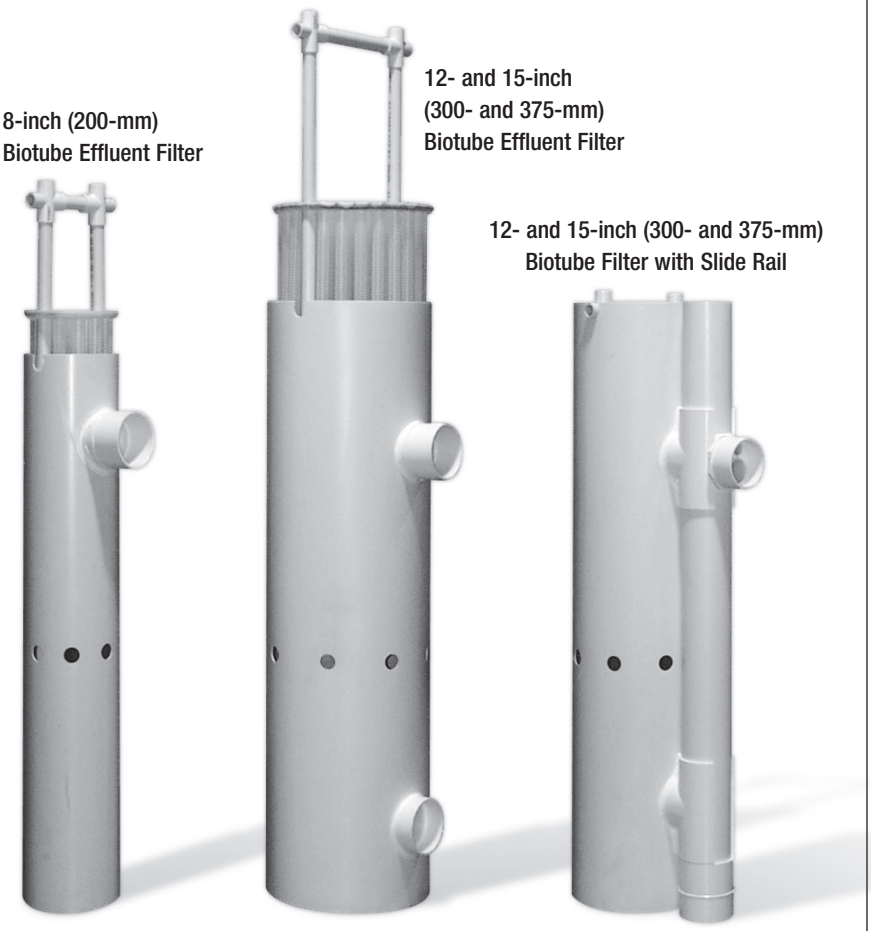
Applications

Our patented* Biotube® Effluent Filters in 8-, 12-, and 15-inch (200-, 300-, and 375-mm) diameter sizes are ideal for large residential, commercial, and community applications. They prevent large solids from leaving the tank, dramatically improving wastewater quality and extending the life of downstream treatment systems. For more information, see our "Filter Facts" document, AFL-FT-2-PRN, which is available on our online document library at www.orenco.com.

8-inch (200-mm) Biotube Effluent Filter

12- and 15-inch (300- and 375-mm) Biotube Effluent Filter

12- and 15-inch (300- and 375-mm) Biotube Filter with Slide Rail



Orenco's commercially-sized effluent filters are the only effluent filters on the market capable of handling large wastewater flows. Standard models have up to 52 ft² (4.8 m²) of filter area, to resist clogging while providing maximum long-term protection. Large filter area increases the time between cleanings.

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

Standard Features & Benefits

- The only large, commercial-size effluent filter available
- Removes about two-thirds of suspended solids, on average, extending drainfield life
- Flow modulating discharge orifices to limit flow rate leaving tank, mitigating surges and increasing retention time
- Extendible cartridge handle, simplifies filter removal
- Easy to clean by simply hosing off filter cartridge
- Corrosion-proof construction, to ensure long life

Optional Features & Benefits

- Alarm available, to signal the need for cleaning
- Slide Rail System available, required when there is only one tank access to the effluent filter compartment
- Multiple filters may be used to accommodate larger flows

Biotube Filtering Process

Effluent from the relatively clear zone of the septic tank, between the scum and sludge layers, horizontally enters the Biotube Effluent Filter 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.

To Order

Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Where to Buy."

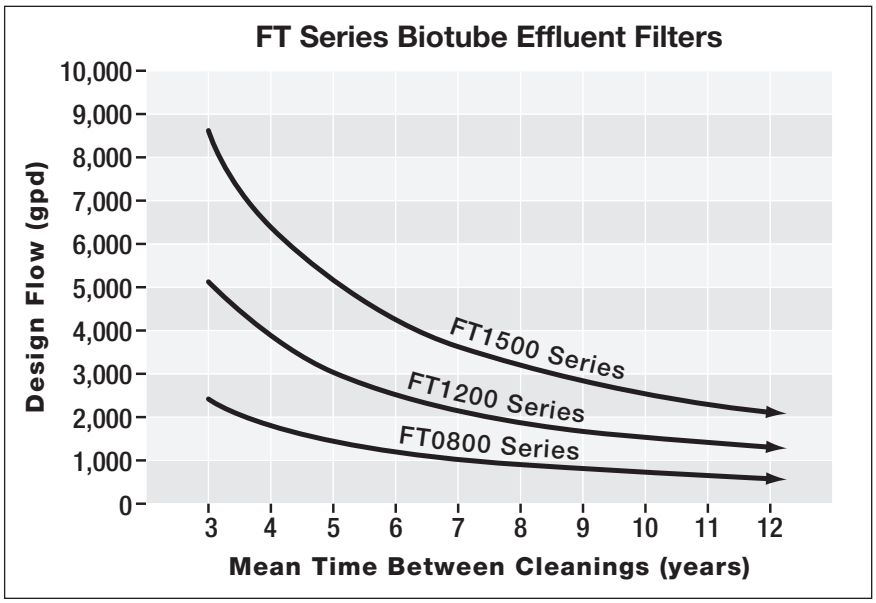
Orenco® SYSTEMS

Orenco Systems® Inc. , 814 Airway Ave., Sutherlin, OR 97479 USA
800-348-9843 • 541-459-4449 • www.orenco.com

Select Biotube® Filter to Match Design Flow and Desired Cleaning Interval

This chart shows the relationship between Biotube Filter size (diameter), design flow, and mean time between cleanings. The larger the filter and the smaller the flow, the longer you can go between cleanings. For example, a typical 3-year cleaning frequency would require an 8-inch (200-mm) filter for up to 2500 (9.4 m^3) gpd, a 12-inch (300-mm) filter for up to 5000 (18.9 m^3) gpd, and a 15-inch (375-mm) filter for up to 8500 (32.2 m^3) gpd. See NDA-FT-FT-1, "Biotube Effluent Filter Sizing," for more sizing information.

Modulating orifice calculations are also required for applications with large surge flows. Contact Orenco for assistance.



Model Codes for Ordering

FT [ ] [ ] [ ] - 36 [ ]

- Biotube® effluent filter
- Filter mesh option:
  Blank = 1/8-in. (3-mm) filter mesh
  P = 1/16-in. (1.6-mm) filter mesh
- Filter diameter, in. (mm):
  08 = 08 (200)
  12 = 12 (300)
  15 = 15 (375)
- Housing height*, in. (mm):
  48 = 48 (1219)
  54 = 54 (1372)
  60 = 60 (1524)
  66 = 66 (1676-mm)
- Cartridge height, in. (mm):
  36 = 36 (914), standard
- Float switch bracket and slide rail options:
  Blank = no options selected
  A = float switch bracket installed
  R = slide rail installed†

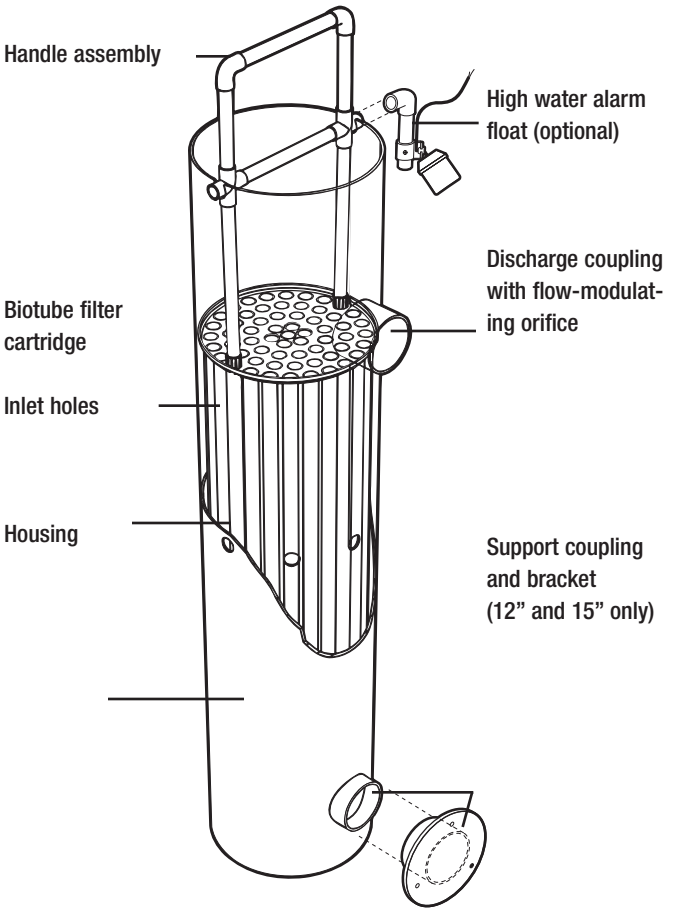
* Minimum liquid level (MLL) information:
48-in. (1219-mm) housing for MLL of 37-46 in. (940-1168 mm)
54-in. (1372-mm) housing for MLL of 47-63 in. (1194-1600 mm)
60-in. (1524-mm) housing for MLL of 64-84 in. (1626-2134 mm)
66-in. (1676-mm) housing for MLL of 85-112 in. (2159-2845 mm)

† For 12- and 15-in. (300- and 375-mm) only; use slide rail option when only one access is available for the filter chamber

Distributed By:

Biotube Effluent Filter

8-, 12-, and 15-inch (200-, 300- and 375-mm)



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