



Enviro-STEP
Technologies inc.

Innovative Eco-Efficient Solutions
for Onsite Wastewater Treatment

Filtro-Flex

PREFABRICATED RECIRCULATING GRAVEL FILTER MODULE

FILTRO-FLEX is a prefabricated intermittent recirculating filter module producing high quality effluent. **FILTRO-FLEX** is specifically designed for its ease of installation and most importantly the capacity of adding modules easily to increase the site capacity. This makes the **FILTRO-FLEX** a system that evolves at the same pace as your project and your budget. Land developers and any multi-phase projects such as campgrounds appreciate this advantage where it assures a minimal investment and easy and flexible increase of capacity.

The module is made of an optimized concrete reservoir that can be handled by standard excavation machinery or small crane. The modules can sustain hydrostatic pressure and be buried up to 33% of the height of the module in saturated soil conditions. Each module comes with its pre-cut calibrated low-pressure distribution system, venting and collection device. For every project, Enviro-STEP Technologies sources the best readily available filtering media required to meet the performance objectives. As a standard configuration, the **FILTRO-FLEX** uses clean 1 to 3 mm (1/8") washed fine gravel or 1 to 2 mm coarse washed sand.

Commercial

Institutional

Small communities and clusters

These highly flexible units provide high quality effluent and can be adapted to meet your project needs and evolution

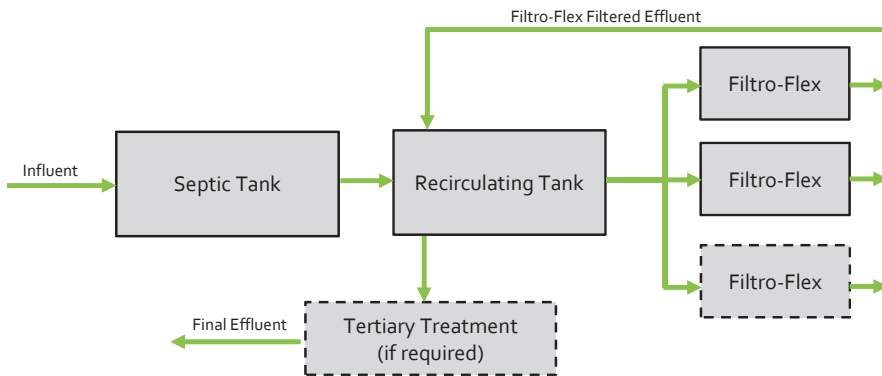


A FLEXIBLE AND EVOLUTIVE TREATMENT SOLUTION

The concept of recirculating filters relies on blending untreated primary effluent with filtered effluent in a mixing and dosing tank. The wastewater is dosed multiple times using a low pressure distribution system over the coarse media filters within the **FILTRO-FLEX** modules. The filtered effluent is collected at the bottom of the filters and is drained back to the mixing and dosing tank. These multiple passes allow for the use of coarser media which does not clog while still providing highly treated effluent.

By adjusting the recirculation ratio, it is possible to achieve nitrogen removal. Each filter can treat between 1400 to 2400 liters per day depending on the strength of the sewage. When an increase of capacity is required, it is very easy to add more modules to an existing train. Enviro-STEP Technologies technical personnel will assist you in your design.

General Process Diagram



ADVANCED SECONDARY TREATMENT PERFORMANCE LEVEL

Parameter	Filto-Flex Effluent
CBOD ₅ (mg/L)	≤ 15
TSS (mg/L)	≤ 15
Fecal Coliforms (CFU/100 mL)	≤ 50 000

APPLICATIONS

- Residential Developments
- Small Municipalities
- Campgrounds
- Restaurants
- Hotels and Inns
- Golf Courses
- Gas Stations / Rest Areas
- Schools

FEATURES & AVANTAGES

- Robust
- Passive
- Easy increase of capacity
- Sustain flow and strength variations
- Superior Performances
- Low maintenance
- Modular and easy to install
- Multiple configurations to address specific pollutants



1 877 925-7496
 info@enviro-step.ca
 www.enviro-step.ca