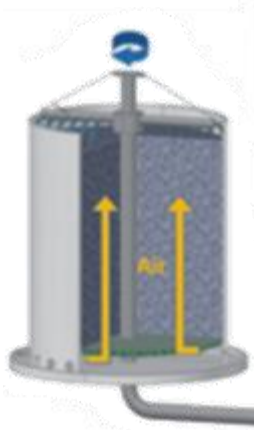


# Trickling Filter (TF)



The **trickling filter** or bacteria bed is a conventional technology based on the growth of biofilm for wastewater treatment. Aerobic conditions are achieved in the system through the percolation of water by gravity through a filter material and the contact with ascending air. The filter material constitutes the support where microorganisms grow and develop, forming a biofilm. The filling material is fixed, inside the reactor, presenting a high specific surface.

## KEY POINTS:

- Treatment of pre-treated wastewater
- Biofilm growth on high specific surface area plastic material
- Low energy consumption
- Natural or forced aeration
- Requires subsequent solids treatment
- Low mechanical maintenance needed

## MAIN FEATURES

- ✓ Simple and stable operation
- ✓ Aerobic process. Absence of odors.
- ✓ Footprint: 0,5 m<sup>2</sup>/PE
- ✓ Low energy consumption ~0,15-0,2 kWh/m<sup>3</sup>
- ✓ Mechanical elements (blower, distributor).