

ROTATING BIOLOGICAL CONTACTOR



Categorization of Technology

BIOLOGICAL → **AEROBIC** → **ATTACHED GROWTH**
Mechanized Treatment System

Technology Brief

This technology has the advantages of both the activated sludge process and the trickling filter. It comprises a cylindrical media made of thin and flat plastic sheets or discs that are placed on a shaft. This disc arrangement is kept partially immersed in wastewater. During the process operation, the discs (RBC) rotate around the shaft and almost 95% of the area gets alternately exposed to the atmosphere and submerged in the wastewater. The RBCs provide the media for building attached microbial growth; facilitate the growth of microbes in contact with wastewater and also aerate the wastewater and suspended microbial growth in the wastewater tank. The sloughing of biological solids is almost continuous due to which the effluent has a relatively constant concentration. This method provides a high degree of treatment, including biological conversion of ammonia to nitrates.