

REDOX WASTEWATER-TREATMENT-SYSTEMS WWL

The Redox engineers have developed for many years, reliable and efficient wastewater-treatment-systems. Depending on the industry and application, mechanical, physical, physico-chemical or biological treatment-systems are applied. Often systems are applied separately but any combination is possible due to the modular design. The Redox flotation system is designed on present



investing in new additional

treatment-systems. Suspended solids, grease and oil are very efficiently removed by dissolved air-flotation (DAF) while sediments like sand, etc. are removed by a spiral conveyor over the total flotationtank length. This ensures a trouble free operation with hardly any maintenance. The floated materials are collected at the surface of the flotationsystem, where they are dewatered to a maximum by a scraper-/ thickener-system. This system is a unique development, resulting in exceptionally high dry solids contents.

The combination of screening and DAF results in BOD/COD-reductions up to 50% depending on the application.

tems. A significant innovative feature is the flotation of biological sludge, resulting in dry solid contents of the separated sludge of 8-12% with effluent suspended solids of less than 10 mg/l.

In many cases however chemical additions are re-

quired to obtain higher reductions of the pollutants.

Coagulation and flocculation is realized in a so called

"pipe reactor" where under strict controlled con-

ditions chemicals are dosed for coagulation (destabi-

lization of f.e. emulsions) and flocculation (conglome-

Chemical treatment in combination with dissolved air

flotation results in BOD/COD reductions of 80% and

ration of destabilized particles).

more depending on the application.

Consequently further dewatering costs by presses, centrifuges, etc. will be minimized.

Redox BV is represented all over the world, ensuring local service before, during and after the installation of its watertreatment-systems.