



AOS 三合一污水處理系統

Anaerobic-Oxidation Sedimentation (AOS) System

低成本、高效能污水處理系統

A low cost and effective wastewater treatment system

簡介

AOS三合一污水處理系統可用於處理工商業活動所產生的污水，使之能直接排放。本系統掌握最新厭氣混合反應器的技術以處理食品加工及畜牧場所產生的污水。

三合一污水處理是集厭氧分解、好氧降解及物理沉澱三合一的組合污水處理器。在第一階段，污水中的頑固污染物會被厭氧微生物分解成較容易處理的物質，在第二階段再選用另一種好氧微生物將污染物加以徹底分解；最後，微生物及殘留污染物會在第三階段沉澱及排放，未符合排污標準的沉澱物更可再循環至第一階段，直至完全被微生物消化為止。

特色與優點

- 高有機廢物消除率
- 污泥生產量小
- 符合排放標準
- 最優化設計，可應用於不同行業，如飲食業、畜牧業等
- 操作簡易
- 體積細小
- 外型輕巧
- 成本低廉

應用

- 酒樓食肆
- 釀酒業
- 食物加工業
- 街市
- 屠房
- 酒店業
- 肉類包裝工場
- 住宅
- 罐頭食品廠

Description

The AOS Treatment System is designed to treat wastewater at industrial and commercial production sites to meet the water quality standards for discharge into foul sewers. It capitalises on a state-of-the-art anaerobic hybrid reactor to treat persistent pollutants in food processing and livestock industrial wastewaters.

The system is an anaerobic digestion, aerobic degradation and physical sedimentation 3-in-1 integrated unit. Organic pollutants in the wastewaters are biologically degraded in the first two stages, and suspended solids are then separated in the sedimentation stage. The supernatant is of qualities that meet the standards of discharge. The settled solids are re-circulated to the anaerobic stage for effective digestion.

Special Features and Advantages

- High organic removal
- Low sludge generation
- Meet discharge standards
- High design flexibility
- Simple operation
- Small floor area
- Light weight
- Low cost

Application

- Restaurant kitchen wastewaters
- Food-processing industry effluents
- Animal slaughter house wastes
- Meat packing factory wastes
- Canned-food factory wastes
- Brewery wastes
- Wet markets wastewaters
- Hotel and residential sewage



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