

Halia® Ozone Sludge Disintegration



“Biosolids disposal is becoming increasingly restricted and therefore expensive. Ozone Sludge Disintegration provides a robust solution to sludge management.”

Halia® Sludge Disintegration is an innovative technology using ozone as a disinfectant agent able to kill bacteria converting their weight into COD that is released into the aerobic biological basin.

The standard biological treatment plant will digest the additional COD using the gaseous oxygen released by the Halia® Sludge Disintegration process.

This technology is able to reduce the total sludge produced by a conventional biological waste water treatment plant by up to 80% .

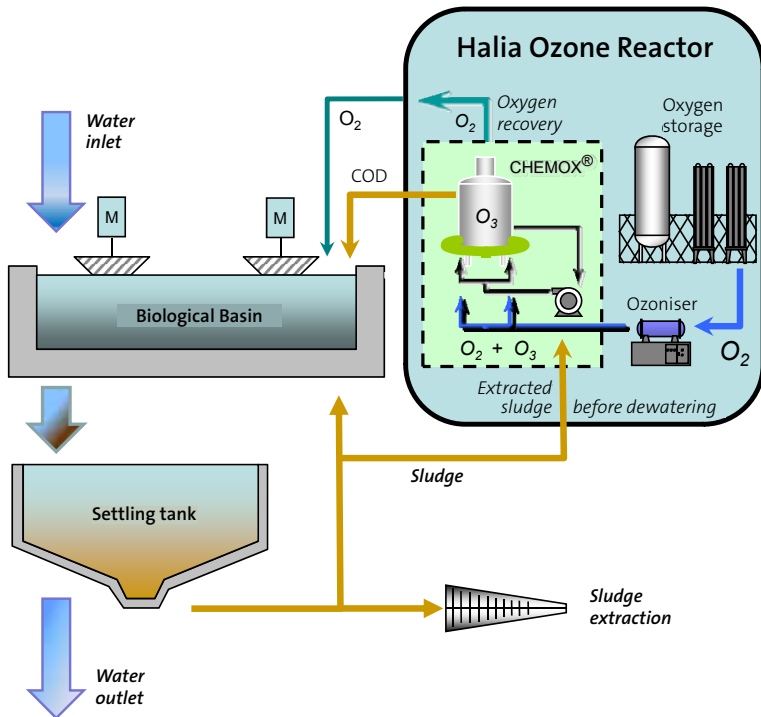
The sludge is treated directly at source. No extraction is required. The only addition to the original waste water treatment plant is an “ozonisation loop”.

Parameter	Unit	Before O ₃	After O ₃
Waste sludge	kg/year	55,000	19,000
O ₃	kg/kgwaste sludge	—	0.12 (0.75kg/h)
Energy	kWh/kg O ₃	—	14 ¹
O ₂	kg//kgO ₃	—	10
Disposal cost	£/year	110,000	38,000
Halia® Ozone Reactor	£/year	—	14,6002
Savings	£/year	57,400	

¹ includes 10kW for the ozoniser and 4kW for cooling and dissolution

² £80/MW = £405/tonne sludge reduced

Ozone Sludge Disintegration can reduce the solids by up to 80%



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