

LEVAPOR IFAS PROCESS



A Truly Hybrid Process Combining Both:
Attached and Suspended Growth System

Ideal WWT Process for BNR
and Industrial Effluent Treatment

A CONCEPT THAT DELIVERS THE RESULTS

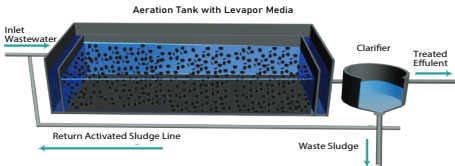
A well designed and tested process configuration which brings benefits of Attached Growth and Suspended Growth activated Sludge System along with PACT (Powdered Activated Carbon Technology) for industrial effluents to a single unit making the process most resilient, compact, reliable and manageable for a wide range of wastewater treatment applications.

LEVAPOR CARRIERS



Higher process protection against toxic
shock loads compared to
conventional Activated Sludge

COLONIZED CARRIERS



LEVAPOR IFAS PROCESS

- Levapor IFAS Process is a hybrid process which combines the benefits of MBBR (attached growth), Activated sludge and PACT (Powdered Activated Carbon Activated Sludge Process)
- The Process can be applied for Biological Nutrient Removal (BNR) meeting the stringent discharge standards of the municipal wastewater
- Levapor IFAS Process is the most suitable process for the treatment of refractory, highly toxic industrial effluents and their nitrification
- The Process can be equally applied for both, an upgradation of existing plants as well as for the new ones

A PROCESS WHICH CAN BE CONFIGURED WITH ANY SUSPENDED GROWTH BASED PROCESS

- MLE Process
- A20 Process
- SBRs can be converted to SBBR Using Levapor IFAS
- BardenPho Process
- Step Feed Process Configuration
- RBC combined with an Activated Sludge System

RESILIENT PROCESS WITH SIMPLICITY OF APPLICATION

- Lower degree of reactor filling (12-15% of total aeration volume)
- Weight: 25 kg/m³ (Dry Weight), lower fluidization energy
- Reversible Adsorption and Biodegradation of toxic pollutants
- Higher internal porosity protecting the biomass against shock loads
- Faster wetting and colonization

AFFORDABLE REUSE AND RECYCLE

- A solution that delivers lowest possible BOD/COD/TSS & TN making the post treatment cost more economical & sustainable for reuse and recycle applications.

LOWER ENERGY CONSUMPTION AND SOLIDS HANDLING COSTS

- Simultaneous Nitrification and Denitrification (SNDN) reducing Internal Recycle (IR) flows and reactor sizing
- Applicable on a fine bubble diffused Aeration system, which improves the Aeration Energy Cost compared to other plastic MBBR/IFAS media based systems
- Well settled and compact, lower sludge production reducing sludge handling and treatment costs
- Application of light weight hydrophilic specially synthesized material of Levapor IFAS Media allows for lower energy requirement for fluidisation

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