

MODULAR WASTE WATER TREATMENT SOLUTIONS





MUNICIPAL



WHAT'S THE CHALLENGES?

- Wastewater complexity
- Volume & concentration fluctuation
- Stringent discharge regulations
- Corporate demand & compliance for carbon footprint reduction

ACHIEVE COST EFFECTIVENESS WITH VEOLIA'S TECHNOLOGIES

-  Enable the reuse of water in industrial processes
-  Minimise waste processing costs
-  Shorten the set-up time for treatment plant
-  Reduce carbon footprint & environment impact

VEOLIA MODULAR WASTEWATER TREATMENT PLANT

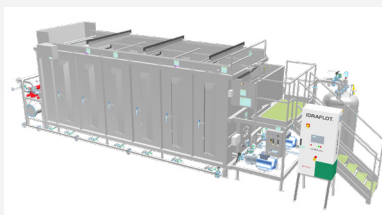
- **Exclusive process & proven know-how** backed by solid references
- **Smart integration of process** meeting customer needs
- Excellent value and quality: **robust, trusted & proven technologies**
- **Veolia's added value services** such as Hydrex Chemical Solutions and AQUAVISTA™ Digital Services



MBBR (Moving Bed Biofilm Reactor)

Leading **aerobic treatment**, using aerobic bacteria which are growing around moving carriers.

- Robust
- High tolerance in handling peak load
- Flexible as carrier can be added in the future to increase the treatment capacity

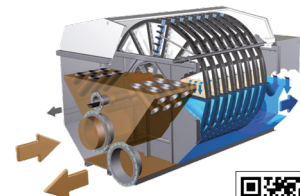


DAF IDRAFLOT (Dissolved Air Flotation)

Chemical-physical separation process

Coagulation, flocculation and clarification steps using a mix of air and water used as a separation agent to allow the sludge to float up.

- Low footprint
- Great performance with high TSS
- Avoid the issue of wild denitrification



HYDROTECH DISCFILTER

Self-cleaning mechanical filtration system

Disc filter offers a large filtering area in a small footprint for effluent polishing or water reuse.

- Modular design
- Easy maintenance
- Avoid noise & odour
- Low energy consumption
- Continuous filtration even during backwash

MODULAR WASTEWATER TREATMENT PLANT

COMPACT TECHNOLOGIES

Compact bundling solutions for space constrained area:

- DAF + MBBR + DAF
- MBBR + Disc Filter

Modular wastewater treatment plant offers high capacity treatment in small footprint for municipal effluent.

EXCELLENT QUALITY & VALUE

- In-depth pre-engineered solution
- Pre-selected equipment
- Established brands
- Earlier start of construction works
- Shorter execution time at site

TIME & COST EFFECTIVENESS

DAF

- Plug & Play Modules (delivered assembled & tested)
- Save time & cost as no concrete (slab only)

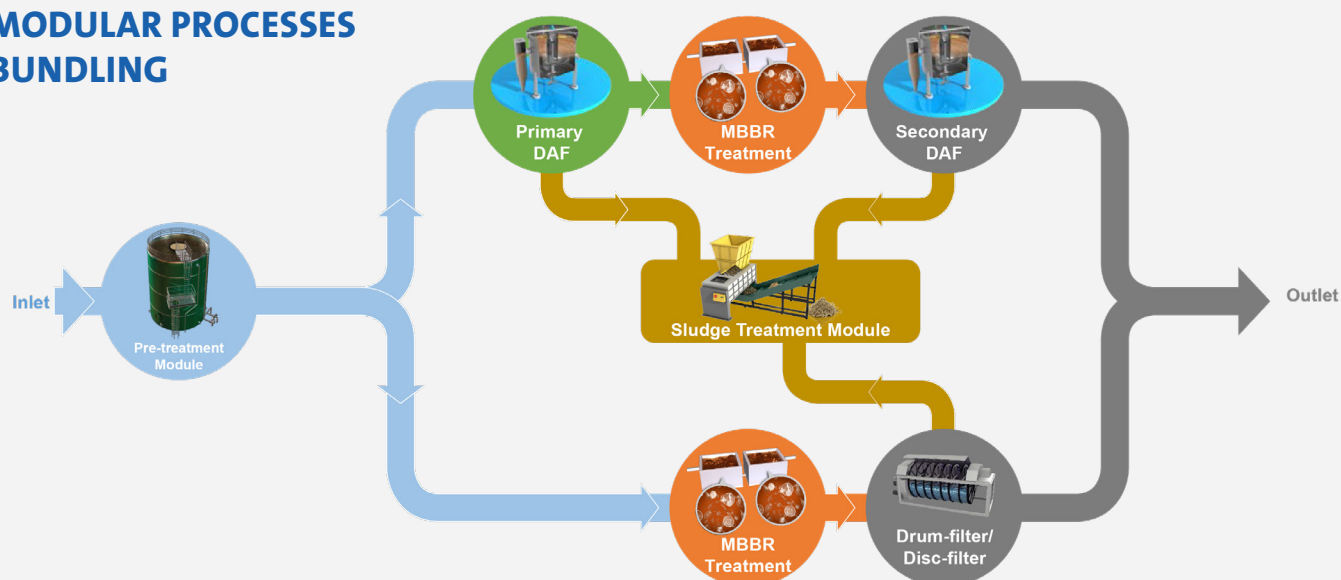
MBBR

- Cost & time saving on concrete work using MBBR panel tank
- Ready to be assembled

Ready to use

- Execution deliverables readily available

MODULAR PROCESSES BUNDLING



VEOLIA'S SERVICE ADVANTAGES

MAINTENANCE SERVICES CONTRACT



CORRECTIVE AND PREVENTIVE MAINTENANCE



LAB MANAGEMENT



STAFF TRAINING



ASSET MANAGEMENT

HYDREX™ CHEMICALS



CONTROL OF TSS



REDUCTION IN SLUDGE VOLUMES



ANTIFOAMS



INORGANIC COAGULANTS

AQUAVISTA™



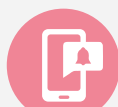
REAL TIME REMOTE MONITORING



DOCUMENT MANAGEMENT



QUICK GLANCE DASHBOARD



DYNAMIC ALARM MANAGEMENT

SPARE PARTS & CONSUMABLES



BLOWERS



PUMPS



FILTER PANEL



INSTRUMENTS



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