NIJHUIS HIGH RATE i-DAF
DAF systems for larger volumes
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Currently, efficient algae, solids and phosphorus removal solutions for sea, surface, and wastewater are a major theme in the industrial and municipal water treatment markets. Additionally, the rise of membrane filtration technology applications has presented companies with new challenges to minimize membranes and energy cost and minimize system failures.

The Nijhuis High Rate i-DAF is a solid solution that guarantees maximum and efficient solids removal, taking primary, secondary and tertiary solids-removal technology to the next level. Especially for the purification of sea and surface water above 800 m3/hr / 20 MLD, pre-treatment solutions have to be compact, robust, stable and modular at the same time.

CUSTOMER BENEFITS

- Lower energy consumption up to 30% by the fine patented non-clogging Nijhuis i-AERATION system.
- Reduce sludge disposal by Nijhuis smart level control.
- Operational flexibility by anticipating on fluctuating flows (high turn-down ratio, without affecting level).
- Reduce operations time and maintenance costs by i-MONITORING and integrated Nijhuis intelligence.
- Execution in stainless steel, (super) duplex or concrete.
- Minimized transport costs due to on-site integration in civil structures.
- Added benefits with plate pack technology:
  - Reduce footprint requirements by 30 – 75%.
  - Ensuring maximum protection of any downstream treatment.

APPLICATIONS

- Desalination pre-treatment
- Drinking water preparation
- Process water production
- Wastewater treatment
- Industrial zones – large volume effluent treatment
- Sewage water treatment - carbon harvesting
- Sewage water treatment- tertiary P removal
- Sewage water – primary sludge thickening
- Flocculant free Activated Sludge separation
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References

Singapore, 800 m³/hr / 20 MLD, Tank Farms

Saudi Arabia, 875 m³/hr / 21 MLD, Industrial Zone Wastewater

Singapore, 1000 m³/hr / 24 MLD, Tank Farms

Singapore, 1200 m³/hr / 29 MLD, Petrochemical

China, 1400 m³/hr / 34 MLD, Refinery

Brno Czech rep., 1625 m³/hr / 39 MLD, Metal Processing
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References

Corsica, France, 1675 m³/hr / 40 MLD, Municipal post-MBBR

U.S.A., 2000 m³/hr / 48 MLD, algae removal

Chile, design | engineering | manufacturing for a desalination plant

Egypt, 60,000 m³/hr / 1440 MLD, Industrial Zone
Pre-treatment (4x stainless steel units) and activated sludge flotation (16x concrete units)

Singapore, 15,000 m³/hr / 360 MLD, Desalination Pre-treatment