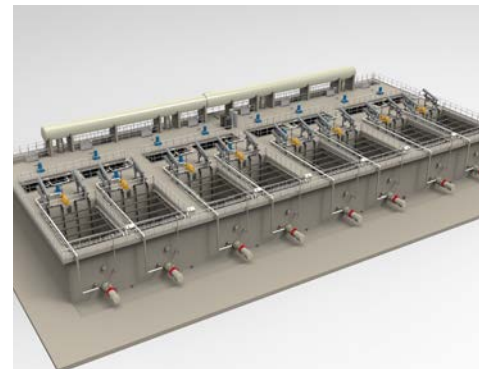




# NIJHUIS HIGH RATE i-DAF

DAF systems for high flows



# NIJHUIS HIGH RATE i-DAF

## DAF systems for high flows

As the clean water demand increases in the last decades, desalination plants utilizing membrane filtration acquire more attention and popularity to tackle the water scarcity issue. While supplying large amount of clean water for process or drinking purposes, the membrane filtration also puts extra stress on the quality and efficiency of the preceded pre-treatment step to meet its operational requirements. In areas prone to seasonal algal blooms, effective algae removal by pre-treatment is critical to prevent membrane fouling issues at the desalination plants.

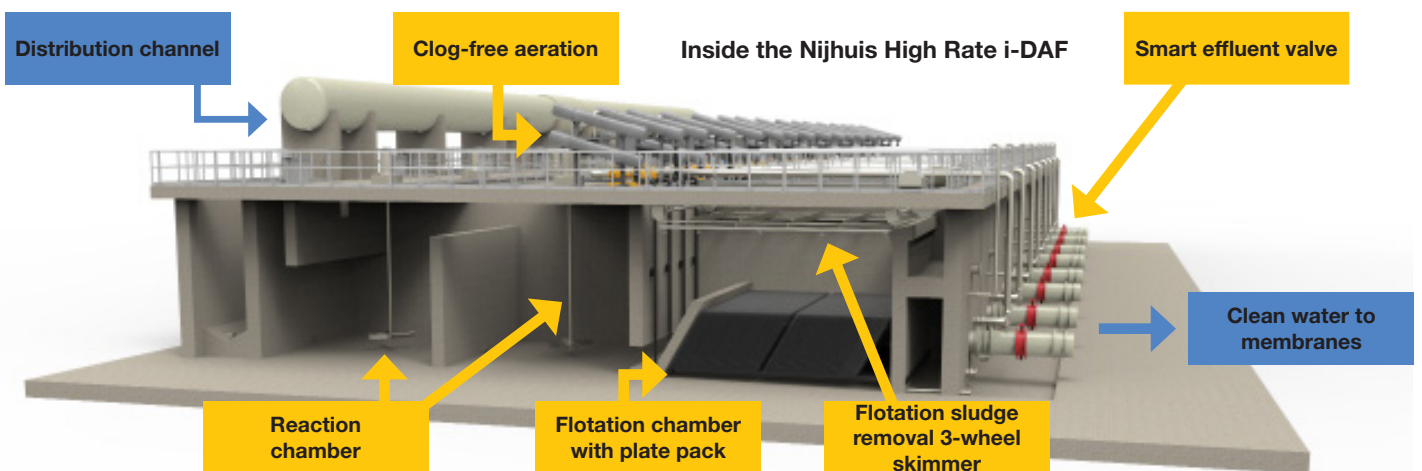
Dissolved Air Flotation (DAF) is commonly employed before membranes in desalination application. By integrating platepack technology, **Nijhuis High Rate i-DAF** offers the most compact model available in the desalination market, while its effluent quality and operational flexibility are secured by its unique design features.

### CUSTOMER BENEFITS

- Reduced footprint & enhanced separation by PLATEPACK
- High effluent quality by 3-WHEEL SKIMMER, without affecting level.
- Operational flexibility by SMART EFFLUENT VALVE
- Reduced OPEX by CLOG-FREE AERATION
- Optional bottom settlement removal by SUCTION PIPE/BOTTOM SCRAPER

### APPLICATIONS

- Drinking water preparation
- Algae removal
- Industrial effluent treatment
- MBBR solid/liquid separation
- Sewage pretreatment
- Tertiary P removal



### First reference Marina East Desalination plant, Singapore

- Singapore's fourth desalination plant
- Producing 137,000 m<sup>3</sup>/d drinking water
- Installation: May-September 2019
- Operation since June 2020

