



FLOTATION, ICF

Plug and play modular pre-treatment solution



For decades the Nijhuis Dissolved Air Flotation technology has been known as the most robust and best DAF technology available on the global market. However, in response to variations in industrial activity and customers' requirements to quickly and efficiently relocate production facilities, Nijhuis has redesigned their DAF concept. The result is an even more efficient system than before.

Located within a high cube container or boxframe, the revolutionary and innovative **Intelligent Containerized (Flocculation-)Flotation** system allows customers to achieve environmental compliance within a very limited time scale and footprint.

The Nijhuis Intelligent Dissolved Air Flotation (i-DAF) system is based on the Nijhuis innovative and intelligent aeration system (i-AIRATION) which forms fine air bubbles for the separation of particles.

APPLICATIONS

- Modular pre-treatment for industrial and municipal applications.
- Short delivery time possible in case of an emergency.
- Also available as a temporary rental solution.

CUSTOMER BENEFITS

1. Proven and robust flocculation-flotation technology to ensure production stability and continuous water treatment quality.
2. Flexible modular solution based on a 'plug and play' principle.
3. Remote control and monitoring by NI-Connect.
4. Reduced installation and commissioning time.
5. Simplify permitting procedures.



TECHNICAL DESCRIPTION

The Intelligent Containerized Flocculation-Flotation (ICFF) is a revolutionary next generation wastewater solution available in 40, 80 and 120 m³/hr capacity based on a plug-and-play principle.

The ICFF 40, 80 and 120 incorporate smart rail technology making it easy to pull out the flotation unit from inside the container for periodically maintenance.

The ICFF design is including:

- i-AIRATION system to control & monitor the aeration process.
- Decentral frequency controllers & motor starters.
- Pre-cabled & pre-piped design.
- One standardized location for inlet connection.
- Two standardized locations for “outlet” connections and power.
- Incorporate smart rail technology.
- Sludge reducer and sludge transferpump.
- Optimized flow distribution.

Series, type	Capacity m ³ /hr	Modular size	ICFF with flocculator and chemical dosing pumps
ICF(F) 40	40	20 feet high cube	+20 feet high cube
ICF(F) 80	80	20 feet high cube	+20 feet high cube
ICF(F) 120	120	20 feet high cube	+20 feet high cube

