



# DAF TECHNOLOGY IN TERTIARY TREATMENT FOR MUNICIPAL SEWAGE



KWI Group is considered one of the pioneers of Dissolved Air Flotation (DAF) technology and is one of the oldest existing DAF unit manufacturers in the world.

Our DAF range includes **11 standard models**, as well as custom designs, to meet all customer requirements.

With nearly **70 years'** experience and the supply of **7000 DAF units** for **4700 references** globally, our Group is strategically qualified to provide excellent treatment for municipal sewage plants.



Effluent from municipal WWTPs usually contains excessive phosphorus and needs further treatment to meet emission standards.

KWI DAF system is a robust solution that is easy to operate and is especially efficient in phosphorus removal.

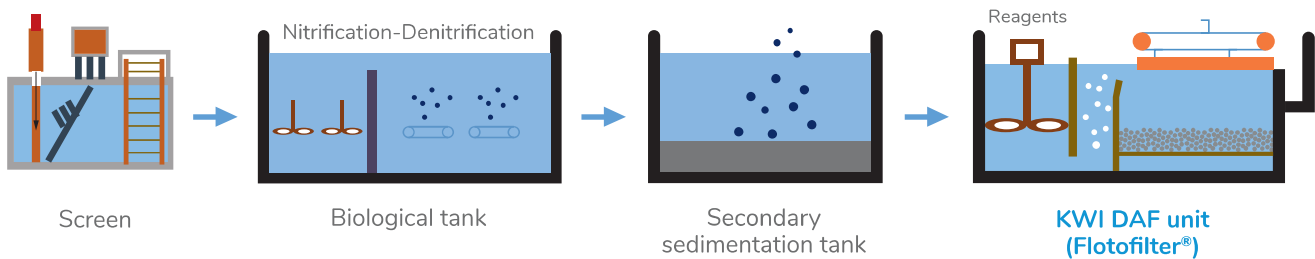
**FLOTOFILTER®** is highly recommended for municipal sewage dephosphorization.

This original combined process is a compact system which guarantees very good results in tertiary treatment and dephosphorization, as proven in many KWI projects.

## KEY FEATURES AND BENEFITS

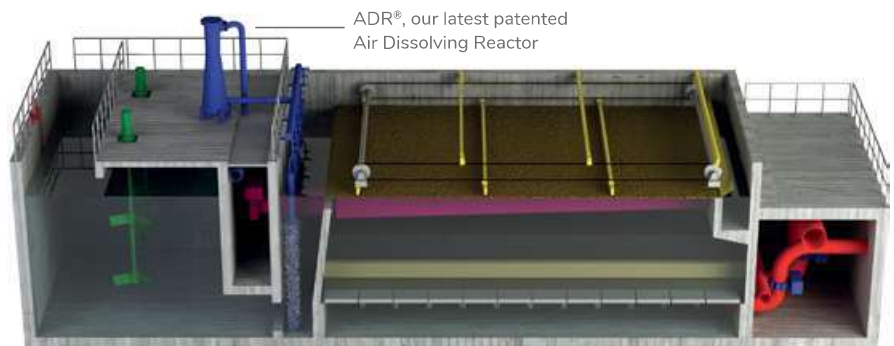
- Can reduce the use of reagents by 10-20%
- Smaller footprint than conventional DAF + media filter
- High phosphorus sludge concentration: up to 3% of solid content
- Sludge can be dewatered directly
- Combined with filtration for even higher efficiency
- Suitable for revamping existing WWTPs

## ■ Typical municipal sewage treatment process with Flotofilter®



## ■ Performance & Operating Parameters

Effluent phosphorus concentration:	<b>&lt;0.5 mg/l</b>
Effluent water SS:	<b>&lt;5 mg/l</b>
High hydraulic load:	<b>10 m<sup>3</sup>/(m<sup>2</sup>.h)</b>
Sludge concentration:	<b>3%</b>
Recirculation ratio:	<b>15%-20%</b>
Air dissolving rate:	<b>&gt;80%</b>



FLOTOFILTER®

## ■ Flotofilter® range

TYPE	MAXIMUM INLET FLOW* (m <sup>3</sup> /hour)	SCRAPER POWER (kW)	FILTRATION AREA SIZE LxW (m)
FF 70	730	0.25	11 x 6
FF 80	860	0.25	12 x 6.5
FF 90	1030	0.25	12 x 7.8
FF 100	1080	0.25	12 x 8.2
FF 110	1190	0.25	12 x 9

\*The maximum flow includes recycle flow and depends on SS loading and on the application.

KWI specialists have vast expertise and experience ranging from engineering to building and commissioning, and from investment to operation.

**Let's work together to make your project a success!**



Member of the **SafBon** Group

www.kwi-intl.com  
office-at@kwi-intl.com

KWI International Environmental Treatment GmbH  
Auengasse 8  
9170 Ferlach, Austria  
Tel. +43 4227 3266  
Fax +43 4227 3449

