



SPF

Advanced Dissolved Air Flotation

A new way to make flotation



IDRAFLOT® SPF is the new generation of DAF units boosting water treatment by using a revolutionary patented system which combines nozzles to mixers for the production of whitewater. This particular device allows to eliminate the traditional saturation tank with benefits in footprint and costs saving. IDRAFLOT® SPF is equipped with a water level adjustment for the automated different flow rates handling and it offers, as well, the opportunity for the automated management of the inlet quality variations, by means of a specific optional device.

MEETING YOUR NEEDS

- to **improve productivity**
- to **remove insoluble COD, FOG, suspended solids and phosphorus**
- to achieve **a reduction in load suitable for following steps (biological processes)**
- to achieve **suitable water characteristics for discharge (after MBBR)**
- to have **robust and reliable equipment** requiring minimal unplanned maintenance
- to cope with **production peaks** while complying with stringent regulations
- to guarantee **long-term efficiency** and **cost control** through operation services

FEATURES

patented nozzles in combination with a high performing mixer allows to obtain ideally sized microbubbles for an optimal whitewater

Revolutionary patented water mixing system

an unconventional design devoid of saturation tank for a very small footprint and a less stringent regulations assessment

No saturation tank

the optional automated adjustment of the chemicals dosage allows for a prompt reaction to inlet water quality variations

Automatic management of effluent quality

Automatic water level adjustment

an automated flow rate system handles the inner water variation level for an optimised management of production peaks

Very compact unit

skid mounted and modular designed to make transport easy and affordable; simple upgrade of existing plants with no significant space-related need

Robust clarifier

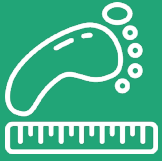
very high removal of TSS, FOG, COD, and phosphorus, high concentration of sludge, no chemicals required in some specific applications



Higher flotation speed:
20-25 m/h, often double
if compared to compact
flotation units on the market



Up to **20% chemicals reduction**



Footprint reduced of 35-40%



Designed to optimise the
flotation process by improving the
contact time between whitewater
and flocs



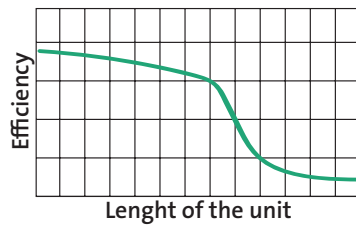
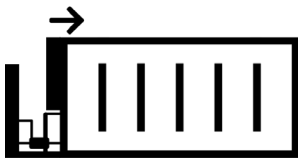
Fit for container:
easier and less expensive
transport



Manufactured in stainless steel
to treat a wide range of effluents
avoiding corrosion phenomena

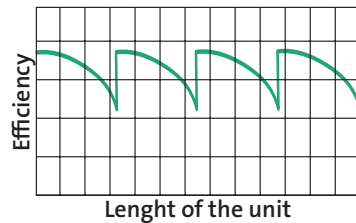
BENEFITS

TRADITIONAL DAF
SYSTEMS



Stable process efficiency along
the whole length of the unit
thanks to new patented nozzles
for water mixing working as a
multiple feeding system.

IDRAFLOT® SPF



TYPICAL APPLICATIONS:

- Food & Beverage industry
- Municipal wastewater
(small municipalities, turistic areas)
- Pre-treatment
- Sludge separation (MBBR)
- Tertiary treatment

FLOW RATES
from 30 to 260 m³/h



Digital services for a smart water treatment



IDRA Life Remote Monitoring and Support

- operational costs reduction
- efficiency and stability improvement
- manual maintenance and downtimes minimization
- 24/7 monitoring
- backed by today's most secure cloud-based systems
- opportunity to choose the service level that meets your needs

Resourcing the world

Veolia Water Technologies Italia

Solutions Division

Via Pra' di Risi, 3 • 33080 Zoppola (PN) • Italy
tel. +(39) 0434 516311 • fax +(39) 0434 516310

info@idraflot.com • www.idraflot.com