

ALL FOR
WATER

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DISSOLVED AIR FLOTATION

THE BEST SOLUTION
IF YOU THINK
ABOUT CLEAN WATER



IN-EKO[®]
TEAM

FH / DISSOLVED AIR FLOTATION

Physical flotation is a process enabling the removal of a larger quantity of undissolved solids from wastewater. Flotation is applied where any other method of filtration and sedimentation cannot be used. Is used for removal of undissolved matters with a density close to that of water.

There is also an intense process where, besides the air, also the chemicals are closed. This process is a chemical-physical flotation and the result is the formation of thick foam on the surface. The foam is continuously collected and discharged. For this purpose, the flotation unit is equipped with chemical agents – coagulant and soda supply

tank, including the dosing pumps. The chemical reaction is happening in a highly efficient tube mixer, which is directly connected to the flotation tank. The wastewater is led to the inflow part of the flotation tank with saturated recirculated water. High pressure saturated water with pollution arising precipitating flocs which are easily separable from the surface. All our units are designed for fully automatic operation. Flotation unit can be applied for thickening of sludge at municipal waste water treatment plants, separation of substances from industry – dairies, slaughterhouses, meat factories, leather factories, chemical industry etc.

DAF SERIES

Type	Hydraulic capacity [m ³ /h]	Surface [m ²]	Volume [m ³]	Dimensions (l×w×h) [m]
FH_5	5	1.9	1.8	2.9×1.0×1.6
FH_10	10	2.9	3.7	2.9×1.4×1.6
FH_20	20	5.7	7.3	3.6×1.6×1.5
FH_40	40	7.8	14.7	3.9×2.0×1.8
FH_60	60	10.1	22.0	5.0×2.0×1.9
FH_80	80	11.9	29.3	5.7×2.1×2.1
FH_100	100	14	36.7	6.7×2.1×2.3

BENEFITS

- Cost-effective operation
- High reduction of pollution → high quality of treated water and separated sludge
- Separation of hardly sedimentable particles
- Fully automatic operation
- Made of stainless steel AISI 304/AISI 316

EXPECTED REDUCTION

Parameter	Chemical-physical flotation
COD	55–80 %
BOD*	55–80 %
TSS	80–95 %
Fats, oils	80–95 %

* Reduction of BOD parameter depends on the type of wastewater

USE

- Slaughterhouses
- Dairies
- Manufacture of fiber glasses
- Pharmaceutical production
- Sugar factories
- Meat factories
- Sludge thickening
- Leather production
- Oils and waxes separations

**IF YOU HAVE ANY QUERIES, PLEASE CONTACT US
BY EMAIL, PHONE OR IN PERSON.**

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Trnec 1734
666 03 Tišnov
Czech Republic

+420 549 415 234
info@in-eko.cz
www.in-eko.com



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