epecousa

Dissolved Air Flotation Systems

ep.daf *i*

up to 500 m^3/day

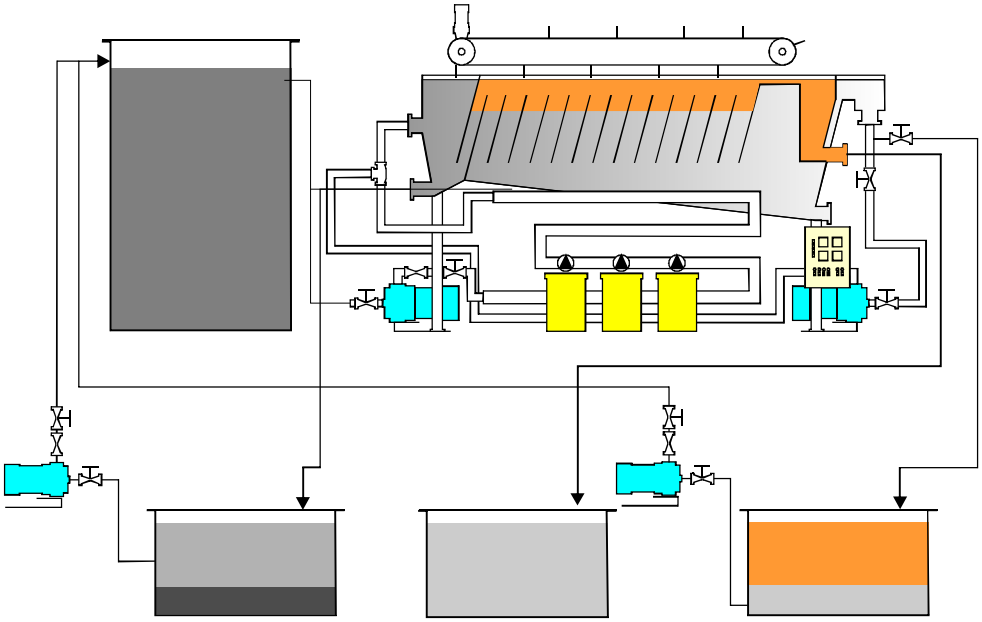
ep.daf.....Why?

Fats, Oil & Grease (FOG) are hardly biodegradable, and considered severe contaminants to the environment.

ep.daf the Dissolved Air Flotation systems from EPECO.USA provid an extremely efficient method for the clarification of water that is highly contaminanted with FOG. It is also used to reduce biological oxygen demand (BOD), chemical oxygen demand (COD) and suspended solids.

ep.daf systems, how it works

The feed wastewater stream is fed through a mixing pipe system where it is injected with Coagulants/Floculants to achieve maximum liquid/solids separation of suspended solids under controlled process conditions. The reconditioned wastewater is introduced to an Air Saturation Vessel, where it is mixed-under pressure- with small portion of the re-circulated treated effluent to create microscopic air bubbles. When the Wastewater becomes saturated with air bubbles, it's diffused into the Dissolved Air Flotation DAF compartment where the pressure is released, freeing the air bubbles which rises up, pushing-up the floatable matters forming a top layer of oil,fat & grease along with flottable matters (ash, feather,...etc.).



A mechanical Skimmer collects the surface scum and discharges it to the Scum Holding Tank. Settled Solids at the bottom of the Settling Tank is accumulated and periodically pumped to the Sludge Holding Tank. Clear Water is discharged for further treatment or disposal.

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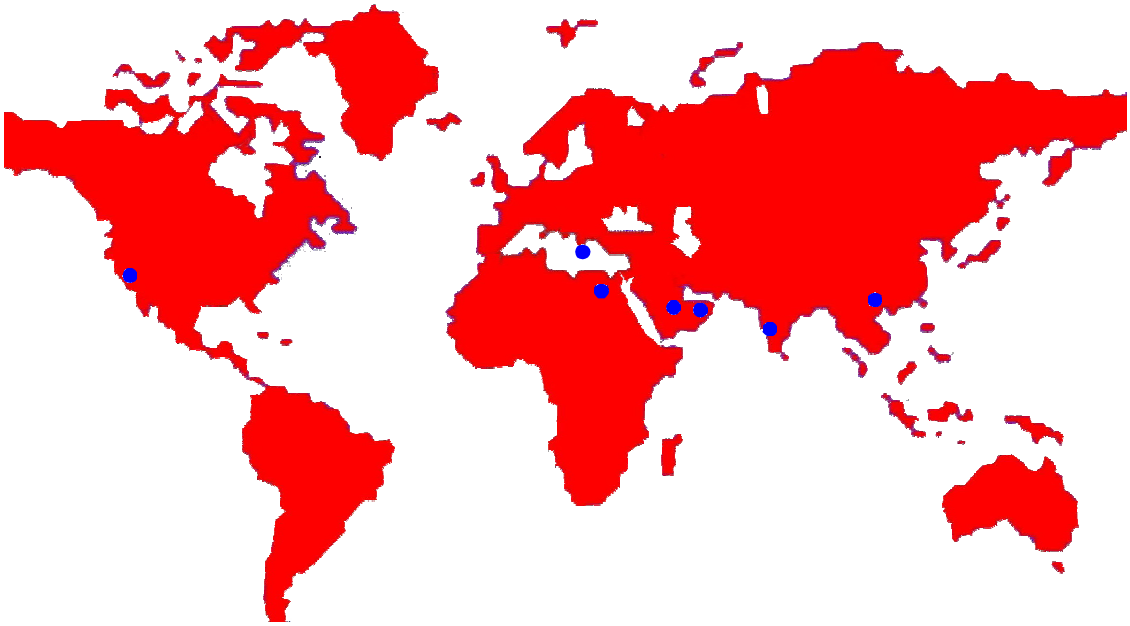
Technical Data

Model	Capacity m^3/day	Dimensions (1) Length x Width x Height m	Power Supply (2) Kw	Wt (Dry) Kg	Wt (Wet) Kg
ep.DAF 5 *i*	5	3 x 3 x 3	4	2500	24500
ep.DAF 10 *i*	10	6 x 3 x 3	8	4200	49200
ep.DAF 20 *i*	20	12 x 3 x 3	11	6750	96500

(1) Steel (Carbon) Structure., epoxy coated. Alternatives available

(2) power supply: 380-415v/3ph/50hz, Alternatives are available.

Manufacturing



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