

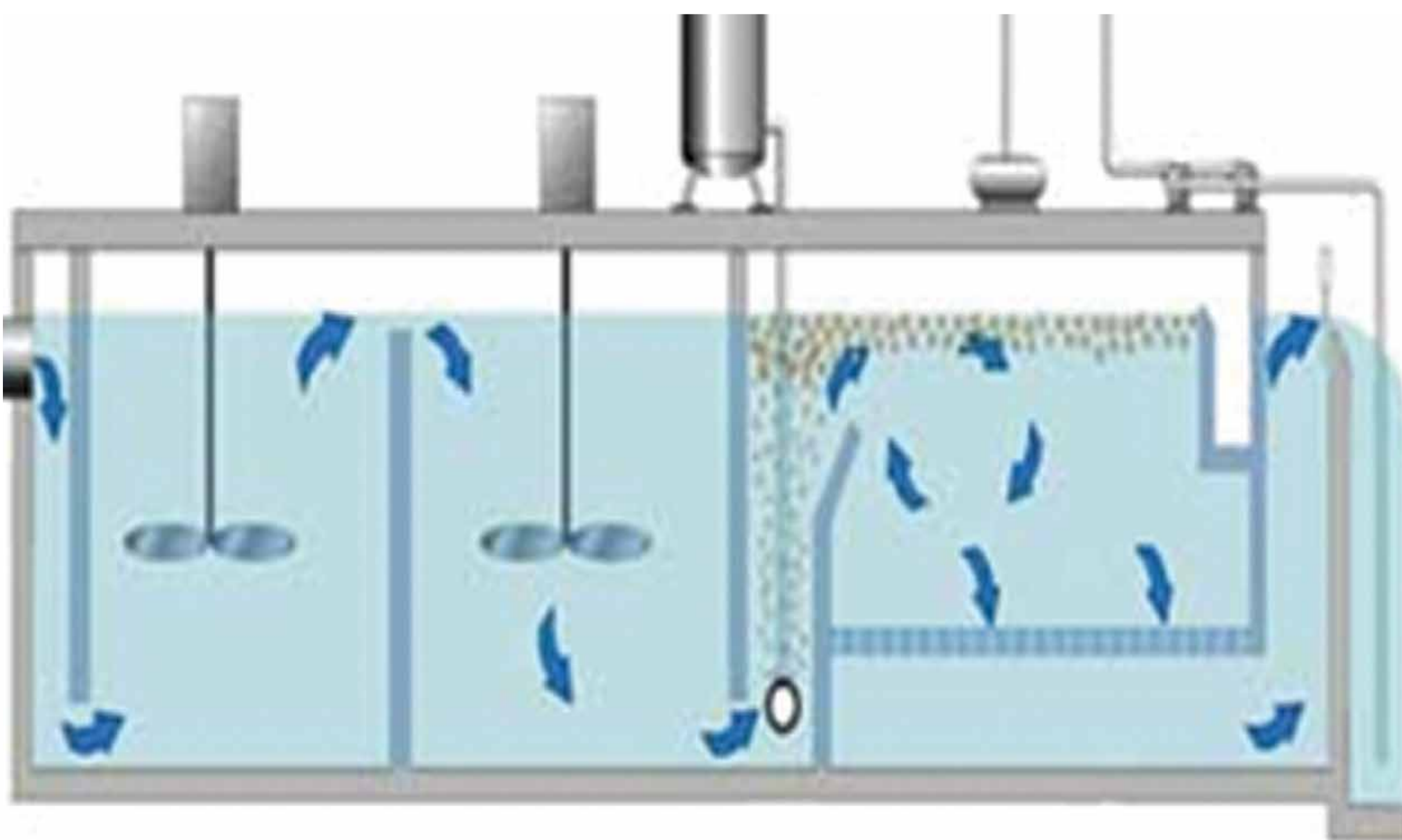
Dissolved Air Flotation(DAF)

Introduction

Dissolved Air Flotation(DAF) system is a kind of commonly used solid-liquid separation equipment in the wastewater treatment industry, which can effectively remove suspended solids, such as Total Suspended Solids (TSS), Fats, Oil & Grease (FOG) and other pollutants in the wastewater, and is the main equipment of the wastewater preliminary treatment. DAF system is widely used in industrial wastewater reuse, pretreatment system before membrane treatment, reclaimed water reuse, MBBR biological film process.

Contaminants are removed by using a dissolved aqueous solution of water produced by injecting air into the recirculating stream of clear DAF effluent under pressure. The recycle stream is then mixed with the upcoming wastewater in the internal contact chamber. Air bubbles and contaminants rise to the surface and form a floating bed material that is removed by a surface skimmer into the internal hopper for further processing.

DAF is an alternative clarification process that uses micro air bubbles to attach and float flocculated particles and suspended solids to the water surface for removal. In contrast, sedimentation removes settled solids from the bottom.



Aeration

Nano aerator is a new generation of high efficiency and energy saving water treatment technology. Nano aerator has huge development potential, as the functional properties of the bubble, bubble with anion, speed slow, ozone bubble explosion equivalent can have antiseptic effect. The bubble size is less than 10um, Dissolved gas efficiency is over 95%.

Low cost and high efficiency

1. Using high-pressure rotary flow transient release technology, high density of micro nano bubble, non-clogging, easy to maintain.
2. Functional bubble diameter of 200 nm ~ 50μm, saturated water can be quickly produced with good gas-liquid dissolving effect.
3. Stable performance, high efficiency, low noise.



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