

Why choose a Heron SAF instead of a DAF? (SAF—Suspended Air Flotation)



A SAF system offers superior performance to a DAF and requires less chemicals and power! A retrofit system can often pay for itself in less than one year.



The froth created by the SAF is comprised of bubbles (7 to 25 microns) that have an electrically-charged surface and greater surface tension. This gives them higher solids capture rate and removal.

- ✓ **It Offers Superior Treatment:** The Heron SAF system can handle 5-10 times the hydraulic rate and 10-20 times the solids loading rate of a DAF.
- ✓ **Greatest Value:** Does not require the DAF's recirculation pump, header, compressor, and air/airlines. Can reduce the required horsepower of a DAF by 90% and is six times more efficient.
- ✓ **Treatment in a Small Footprint:** When used as a retrofit, SAF provides 3 to 4 times hydraulic and solids loading in the existing DAF tank. Reduces the footprint of a DAF by approximately 85% when installed as a new system.
- ✓ **Flexible Operation:** Easily tolerates variation in processes as it produced a thicker, more stable float.
- ✓ **Simple Installation:** Can be retrofitted into an existing DAF system, or our SAF can be placed on a skid for a plug and play installation.
- ✓ **Operator Friendly:** SAF is more stable and requires much less operator attention.

Flotation Without Dissolved Air!
A unique process with many uses within your plant.

Special Features

- Its performance is NOT affected by temperature!
- No pressure vessel required as there is no dissolved air!
- SAF bubbles are charged and have from 100 to 1,000 times the ability to attract and float a particle than a DAF bubble.
- Easily handles the removal of algae.
- Can be used as a primary or secondary clarifier, or for economical sludge thickening or dewatering prior to the final dewatering stage.

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