



## Dissolved Air Flotation – DAF

### GENERAL INFORMATION

The **Westlake Environmental** Dissolved Air Flotation (WDAF) system is very versatile and effective for cleaning industrial wastewater. It very efficiently removes suspended solids, oil and grease, metals as well as the suspended biological oxygen demand (BOD) and chemical oxygen demand (COD). Removal rates in excess of 95% are common. Some installations report 99.9% FOG and TSS reduction.

Westlake Environmental utilizes proven concepts and designs combined with innovative features that have yielded cost effective, robust, high performance systems that range from 5 GPM to over 3,000 GPM in a single DAF unit.

The Westlake Environmental DAF systems are specifically designed utilizing inclined plate technology and can be used to treat waste streams in both primary and secondary applications. The WDAF is compact in size relative to the amount of flow it can treat. Designed to handle both floating and settling solids effectively, the WDAF is a very versatile machine for a variety of applications.

The inclined plate design of the WDAF allows for the utilization of effective surface area to significantly increase the hydraulic capacity of the DAF system while preventing solids build-up often found in systems with plates or media.

The WDAF utilizes a unique skimmer design that is reliable, robust and virtually maintenance free. The settled solids removal system is simple to use and requires little maintenance. These low maintenance characteristics combined with a heavy-duty design and proven treatment efficiencies allows the machine to be the safest and best use of your capital when considering a DAF system for your application.

A tube flocculator is used to thoroughly mix a chemical recipe and monitor the Floc building process prior to the DAF tank. The simple pipe-based design has no moving parts and is virtually maintenance free. Standard materials of construction are Sch. 80 PVC with alternative materials available. Westlake Environmental also offers traditional Chemical Blending Systems with mixers, chemical pumps, pH probe assembly and is application specific.



### APPLICATIONS

- Algae Removal
- Aircraft/Auto/Railroad
- Canning Plants
- Chemical Processing Plants
- Food Processing
- Heavy Metals Removal
- Meat Packing
- Oil Refinery Waste
- Pet Foods
- Poultry Processing
- Power Plants
- Prepared Foods
- Produced Water
- Refinery
- Rendering
- Seafood Processing
- Snack Foods
- Storm Water Treatment
- Tank Truck Cleaning
- Tanning
- Textile

**Westlake Environmental LLC | Water Cleaning Systems**

P.O. Box 480, Grand Haven, MI 49417 | 616-610-1450 | [www.WestlakeEnv.com](http://www.WestlakeEnv.com)

## Dissolved Air Flotation – DAF

MODEL	MAX FLOW	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
WDAF-100	100	4'-6"	10'-0"	10'-10"	6" Dia.	6" Dia.	4" Dia.	2" Dia.	4" Dia.
WDAF-200	200	8'-0"	10'-0"	10'-10"	8" Dia.	8" Dia.	6" Dia.	4" Dia.	4" Dia.
WDAF-400	400	8'-0"	13'-6"	10'-10"	10" Dia.	10" Dia.	6" Dia.	4" Dia.	6" Dia.
WDAF-600	600	8'-0"	17'-0"	10'-10"	10" Dia.	12" Dia.	8" Dia.	4" Dia.	6" Dia.
WDAF-800	800	8'-5"	18'-0"	16'-0"	10" Dia.	12" Dia.	10" Dia.	4" Dia.	6" Dia.
WDAF-1200	1,200	8'-5"	21'-6"	16'-0"	10" Dia.	14" Dia.	12" Dia.	4" Dia.	6" Dia.
WDAF-1600	1,600	8'-5"	25'-0"	16'-0"	10" Dia.	14" Dia.	14" Dia.	4" Dia.	6" Dia.
WDAF-2000	2,000	9'-6"	29'-6"	16'-0"	10" Dia.	18" Dia.	16" Dia.	4" Dia.	6" Dia.
WDAF-2400	2,400	12'-0"	25'-0"	16'-0"	12" Dia.	18" Dia.	16" Dia.	6" Dia.	6" Dia.
WDAF-3000	3,000	13'-2"	30'-2"	16'-0"	12" Dia.	20" Dia.	18" Dia.	6" Dia.	6" Dia.

Max flow rate is in GPM and varies based on TSS concentration.  
Information subject to change without notice.

