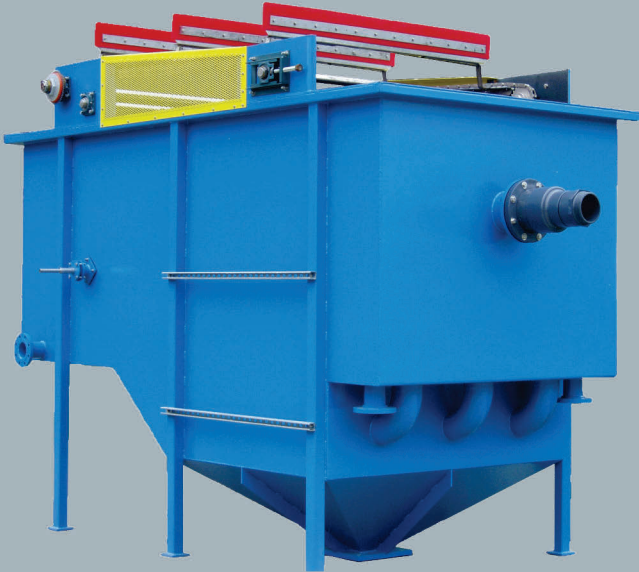


# DISSOLVED AIR FLOTATION (DAF)

Dissolved Air Flotation (DAF) systems are a great way to remove positively and neutrally buoyant liquids and particulate from a waste stream. This removal method is a time tested and economical treatment solution for the removal of solids, oils, grease, fibrous materials, and BOD/COD. Removal rates of solids can continuously exceed 99%.



## HOW IT WORKS

Air flotation utilizes the injection and thorough mixture of small air bubbles into water to enhance the buoyancy of contaminants. Air is saturated into a recycle stream which is introduced with the influent at the front of the tank. The air saturated water equalizes with the atmosphere when injected into the tank, which causes the release of microbubbles into the wastewater. Once released, the microbubbles adhere to flocculated solids and liquids in the waste stream causing them to float to the surface of the tank. The water then flows under a baffle ensuring a clean effluent. The floated solids are then mechanically skimmed from the surface. Any solids that do not float will settle to the bottom for removal.

## APPLICATIONS

- Food and beverage production
- Dairy, poultry, and meat processing
- Pulp and paper manufacturing
- Industrial laundries
- Glass manufacturing
- Tanker and railcar washing
- Petroleum and petrochemical refining
- Plastics recycling
- Ground water remediation

## FEATURES & BENEFITS

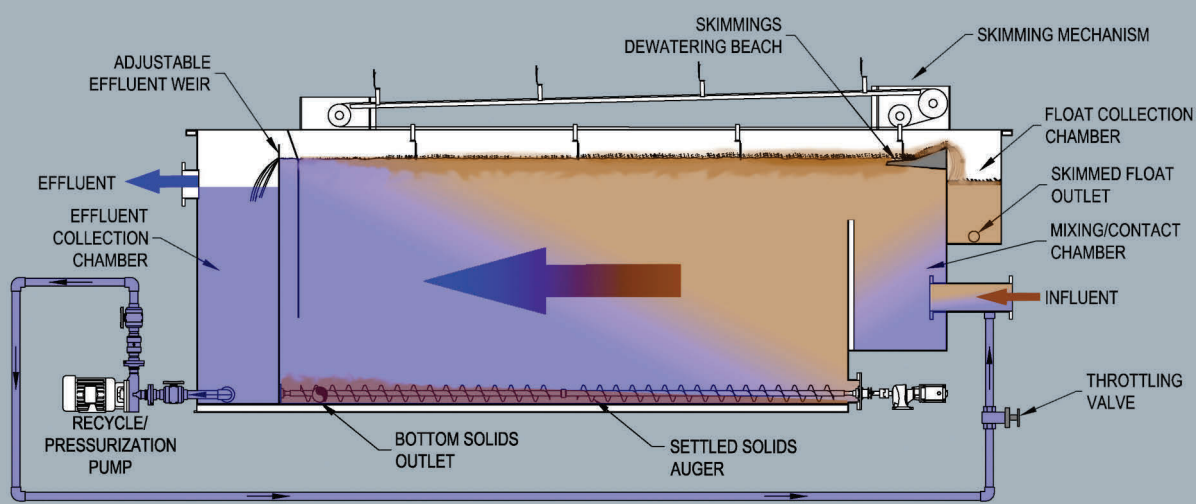
- Removes up to 99% of contaminant solids and fats, oils, and greases (FOG)
- Integrated chamber design reduces the overall footprint
- Lower sludge production compared to conventional clarifiers
- Some recycle pump styles do not require compressed air
- Construction options include coated steel, stainless steel, or polypropylene
- EPS Wastewater can custom fabricate to any desired size
- EPS Wastewater can provide the entire wastewater treatment system around the DAF unit
- Flow ranges from 5-1000 GPM



Our mission is to deliver wastewater treatment equipment and solutions that effectively and economically address the needs of our customers.

## OUR FULL LINE OF TECHNOLOGIES INCLUDE:

- Inclined Plate Clarifiers (IPC)
- Multi-Media Filters (MMF)
- Ultrafilters (UF)
- pH Adjustment Systems
- Pump Skids
- Control Panels
- Dissolved Air Flotation (DAF)
- Oil / Water Separators (OWS)
- Batch Treatment Systems
- Skid Mounted Equipment
- Filter Presses
- Flash Mix and Flocculation



## SIZING CHART

Model	Overall Length	Overall Width	Overall Height	Surface area (ft <sup>2</sup> )	Design flow rate (GPM)
DAF10	11' - 0"	4' - 3"	12' - 1"	10	5-25
DAF15	12' - 6"	4' - 3"	12' - 1"	15	15-40
DAF20	14' - 0"	4' - 3"	12' - 1"	20	20-50
DAF25	16' - 0"	4' - 3"	12' - 1"	25	25-65
DAF35	16' - 3"	5' - 3"	12' - 1"	35	35-90
DAF50	20' - 0"	5' - 3"	12' - 1"	50	50-125
DAF75	21' - 1"	6' - 9"	12' - 1"	75	75-190
DAF100	25' - 7"	6' - 9"	12' - 1"	100	100-250
DAF125	26' - 6"	7' - 9"	12' - 1"	125	125-315
DAF150	30' - 6"	7' - 9"	12' - 1"	150	150-375
DAF175	34' - 6"	7' - 9"	12' - 1"	175	175-440
DAF200	34' - 0"	8' - 9"	12' - 1"	200	200-500
DAF225	37' - 6"	8' - 9"	12' - 1"	225	225-565
DAF250	40' - 6"	8' - 9"	12' - 1"	250	250-625
DAF275	39' - 6"	9' - 9"	12' - 1"	275	275-690
DAF300	41' - 0"	10' - 3"	12' - 1"	300	300-750
DAF325	43' - 6"	10' - 3"	12' - 1"	325	325-815
DAF350	46' - 0"	10' - 3"	12' - 1"	350	350-875
DAF400	51' - 6"	10' - 3"	12' - 1"	400	400-1000

