

**EQUIPMENT**



**DISSOLVED AIR FLOTATION (DAF) SYSTEM**

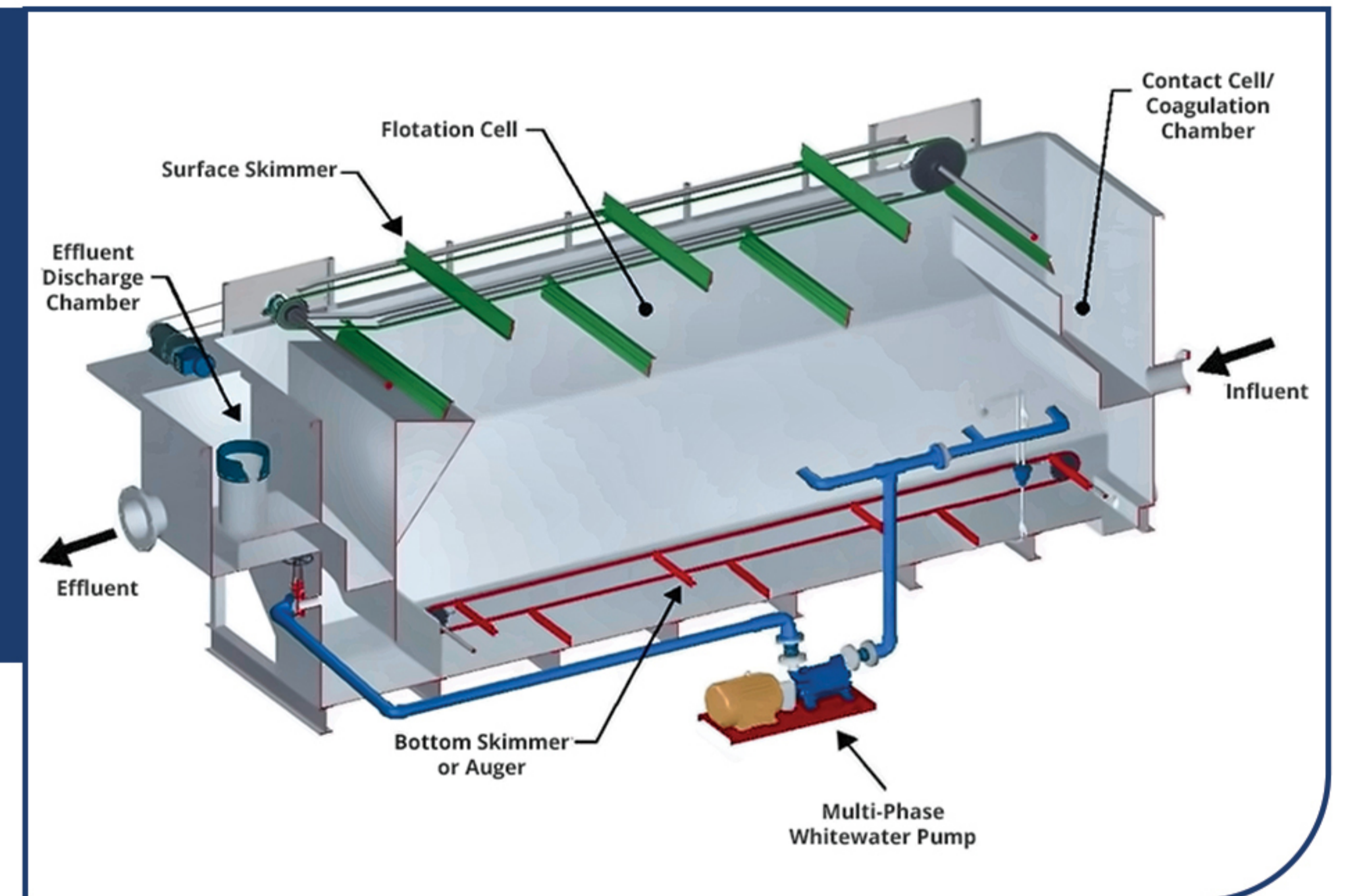
# DISSOLVED AIR FLOTATION (DAF) SYSTEM

- **Ultra-Fine Bubbles:** Bubble size  $\leq 10 \mu\text{m}$  for superior solid-liquid separation.
- **High Dissolved Gas Efficiency:** Efficiency above 95% for reliable operation.
- **Compact Footprint:** Space-saving design with effluent SS  $< 20 \text{ mg/L}$ .
- **Automated Operation:** One-button starts with unattended operation.
- **Cloud Digital Service:** Remote monitoring and digital integration available.



## Working Principle

The DAF system dissolves air into water under high pressure to create a supersaturated solution. When released into the flotation tank at atmospheric pressure, millions of microbubbles ( $\approx 20\text{--}50 \mu\text{m}$ ) attach to suspended particles, lowering their density and lifting them to the surface. The floated sludge is skimmed off for further treatment, while clarified water is discharged or reused.



## Features

### Standard Features

- Bubble Size  $\leq 10 \mu\text{m}$  for efficient flotation.
- Dissolved Gas Efficiency  $> 95\%$  for stable performance.
- Compact Structure requires less land area.
- Effluent SS  $< 20 \text{ mg/L}$  with proper treatment.
- One-Button Start & Unattended Operation for ease of use.
- Cloud Digital Service Ready for remote supervision.

### Options & Accessories

- Various Model Capacities from 5 to 100  $\text{m}^3/\text{h}$ .
- Carbon Steel Construction as standard (optional upgrades available).




## Specifications and Parameters

Model	Capacity ( $\text{m}^3/\text{h}$ )	L (mm)	W (mm)	H (mm)	Net Wt (T)	Running Wt (T)	Total Power (kW)	Reflux Pump (kW)	Air Compressor (kW)	Skimmer (kW)	Mixer1 (kW)	Mixer2 (kW)	Material
AQT-DAF005	5	2800	1000	2100	3	8	4.75	3	0.55	0.1	0.55	0.55	Carbon steel
AQT-DAF010	10	3200	1200	2200	4	12	4.75	3	0.55	0.1	0.55	0.55	Carbon steel
AQT-DAF025	25	5000	1500	1350	5.5	21	5.85	3.7	0.75	0.1	0.75	0.75	Carbon steel
AQT-DAF050	50	6500	2000	2500	7	36	9.05	5.5	1.5	0.2	1.1	1.1	Carbon steel
AQT-DAF080	80	7600	2600	2600	9	55	11.05	7.5	1.5	0.2	1.1	0.75	Carbon steel
AQT-DAF100	100	8300	3000	3000	12	70	16.2	7.5	2.2	0.4	1.5	1.1	Carbon steel

# WASTEWATER, CLEAN-GAS & ENVIRONMENTAL SOLUTIONS



 +61 (2) 40923110

 5 Moorak St  
Taringa QLD 4068  
Australia

 [AQUIPTEC.COM.AU](http://AQUIPTEC.COM.AU)

 [INFO@AQUIPTEC.COM.AU](mailto:INFO@AQUIPTEC.COM.AU)