

# TRIDENT DAF Unit

The **TRIDENT Dissolved Air Flotation (DAF) Unit** clarifies wastewater by removing suspended organic material. Pressurized air injected into a mixing reactor optimizes air entrainment forming microbubbles that float the suspended solid particles in the wastewater to the surface. The particles form a layer of sludge on the surface which is skimmed off by a rake assembly. The captured sludge is then transferred by an auger to a collection chamber.

The excellent air to solid ratio optimizes sludge capture ensuring maximum nutrient recovery. The thickened sludge contains exceptionally high percentages of NPK which can be harvested for various uses.

Constructed from 304 stainless steel and other high quality non-corrosive components the TRIDENT DAF Unit will provide long life and trouble free operation. Completely automated the DAF can perform as a standalone component or be integrated into any existing system.



PERFORMANCE					
PERCENT RECOVERED	N 45%	P 85%	K 20%		
MODEL	50	100	200	300	400
TECHNICAL					
LIQUID CAPACITY	2000 gal	3400 gal	8200 gal	13,000 gal	16,800 gal
EFFECTIVE AREA	50 ft <sup>2</sup>	100 ft <sup>2</sup>	200 ft <sup>2</sup>	300 ft <sup>2</sup>	400 ft <sup>2</sup>
INLET	4"	6"	6"	8"	8"
EFFLUENT OUTLET	6"	8"	8"	10"	12"
SLUDGE OUTLET	6"	6"	6"	6"	6"
DRIVE HP	3/4 HP	3/4 HP	3/4 HP	3/4 HP	3/4 HP
AIR TUBE HP	7.5 HP	15 HP	20 HP	25 HP	30 HP
SPECIFICATIONS					
OVERALL LENGTH	17'	23'	33'	38.5'	48.5'
OVERALL WIDTH	74"	90"	110"	132"	132"
OVERALL HEIGHT	84"	105"	120"	120"	120"
APPROX. WEIGHT					
Empty	5,000 lbs	8,500 lbs	13,000 lbs	17,000 lbs	20,000 lbs
Full	22,000 lbs	35,000 lbs	79,000 lbs	121,000 lbs	155,000 lbs



604.330.2500 • 1.800.799.3740 • info@tridentprocesses.com  
 446 Harrison Street, #81D Sumas, WA 98295  
 #101-2238 Queen Street, Abbotsford, BC Canada V2T 0B7