

KROFTA ENGINEERING LIMITED

SEDICELL

Robust Circular Dissolved Air Floatation Unit

The application of Dissolved Air Floatation (DAF) is to separate solids from liquid, with the help of micro bubbles. These bubbles formed in the Air Dissolving Tube (ADT), attach themselves to light solid particles and rise to the surface. The solids at the surface are removed by our scoop system. The heavier solid particles settle at the bottom of the main tank and are removed periodically with the help of timer activated purge valves, leaving only the clear water to pass on to the side. This method of sludge removal generates a high consistency sludge, making it easier to handle for further sludge treatment. The entire system consists of a recycle pump, air compressor and pressure release valve.

Our Sedicell models are designed to sustain high Total Suspended Solids (TSS), Fats, Oils and Grease (FOG) loads as well as shock loadings and can treat a range of water flow rates with the maximum being 2000 m³/hr in a single unit.



Advantages & Applications of SEDICELL

- No requirement for a pipe flocculator, in line dosing achieves high removal efficiency
- Reliable and strong construction due to civil constructed base
- 30 minutes of retention time due to the height, giving high and efficient solids removal
- low sensitivity to variations in inlet parameters and shock loads
- Popular in paper industry, used for biological sludge thickening, municipal applications as well as in textiles and dyeing industry.

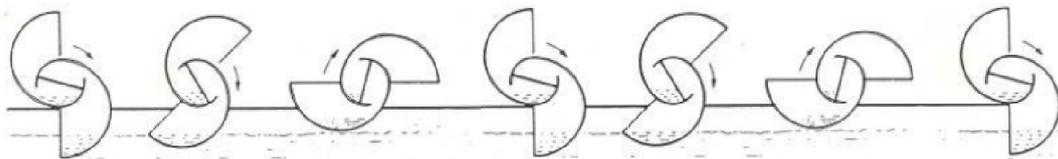


Krofta's patented Air Dissolving Tube (ADT) is used to saturate air into the recycled treated water. At atmospheric pressure, this created millions of micro bubbles in the size range of 30-50 micron.

The benefits of using our floatation unit with our ADT are:

- Entire process of air saturation takes only approximately 12 seconds
- Krofta ADT has a small footprint and easy O&M
- Micro bubbles lead to very high solids removal efficiency
- Other air systems may choke in the presence of TSS > 2000 mg/L

KROFTA SEDICELL SPIRAL SCOOP (U.S.A. and Foreign Patents)



DAF Model	Max Flow (m ³ /hr)	Diameter (mm)	Overall Height (mm)	Motor Scoop Power (kW)	Motor Carriage Power (kW)
SDC-8	34	2400	2850	0.55	-
SDC-10	60	3200	3300	0.25	0.25
SDC-12	90	3900	3300	0.55	0.37
SDC-15	115	4500	3300	0.55	0.37
SDC-18	180	5500	3300	0.75	0.75
SDC-20	220	6100	3300	1.1	1.1
SDC-22	250	6700	3300	1.1	1.1
SDC-24	300	7200	3300	1.1	1.1
SDC-27	380	8100	3300	1.1	1.1
SDC-30	470	9000	3300	1.1	1.1
SDC-36	700	11000	3300	1.5	1.5
SDC-40	850	12200	3300	1.5	1.5
SDC-44	1000	13400	3300	1.5	1.5
SDC-49	1250	14800	3600	1.5	1.5
SDC-55	1500	16700	3600	1.5	1.5
SDC-65	2000	19700	3600	2.2	2.2

Table 1: Sedicell Technical Details, *Approximate Values



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