



KROFTA ENGINEERING LIMITED

SUPERCELL

Krofta's Original 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 the 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. 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 Supercell models are designed to sustain high Total Suspended Solids (TSS), Fats, Oils and Grease (FOG) loads and can treat a range of water flow rates with the maximum being over 2500 m³/hr in a single unit.



Advantages & Applications of SUPERCCELL

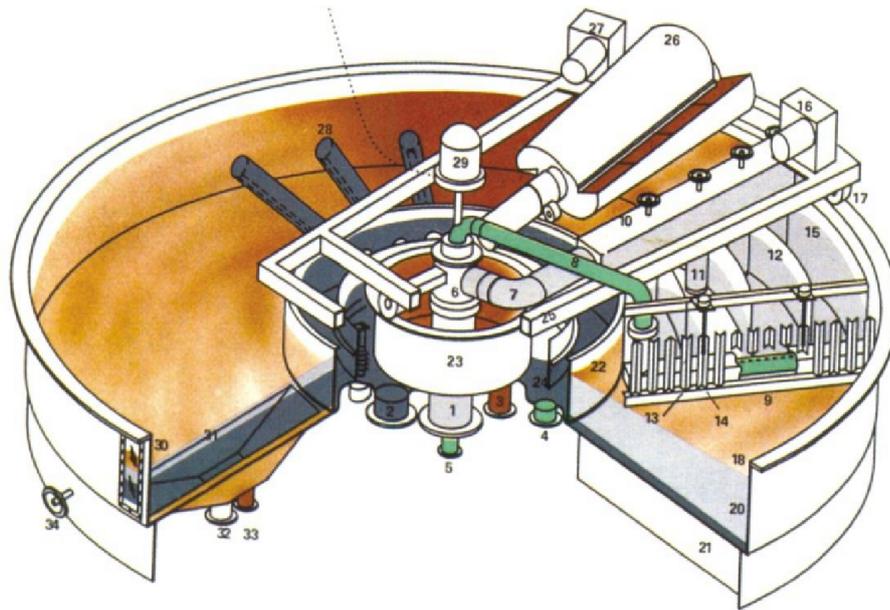
- Competitive pricing as compared to traditional larger height circular DAF units
- No requirement for a pipe flocculator, in line dosing achieves high removal efficiency
- Low Footprint, fully metallic structure with minimal to no civil construction required and is highly compact
- 3 height options available for the most efficient performance based on the inlet characteristics
- Popular in food and beverage, automobiles and paint as well as chemical industries



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



DAF Model	Max Flow (m ³ /hr)	Diameter (mm)	Depth of Supercell Tank (mm)	Depth of Supercell with bottom support (mm)	Minimum Overall Height (mm)
SPC - 4	6	1230	560	660	900
SPC - 6	12	1858	600	755	1000
SPC - 8	34	2400	600	850	1150
SPC - 10	60	3200	600	850	1250
SPC - 12	90	3900	650	900	1300
SPC - 15	120	4500	650	950	1450
SPC - 18	180	5500	650	950	1480
SPC - 20	219	6100	650	950	1560
SPC - 22	264	6700	650	950	1580
SPC - 24	305	7200	650	950	1600
SPC - 27	386	8100	650	950	1700
SPC - 30	477	9000	650	950	1820
SPC - 33	588	10000	650	950	1840
SPC - 36	712	11000	650	950	1860
SPC - 40	876	12200	660	960	1920
SPC - 44	1056	13400	685	985	1980
SPC - 49	1290	14800	685	985	2070
SPC - 55	1662	16800	685	985	2200
SPC - 62	2112	19900	750	1050	2200
SPC - 70	2696	21300	780	1080	2300



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Durga Bhavan, A-68, FIEE Complex, Okhla Industrial Area Ph-II,
 New Delhi-110020. INDIA • Tel: +91-11-4724 2500 Fax: 91-11-4160 7026
 Email: krofta@kroftaengineering.com • Website: www.kroftaengineering.com