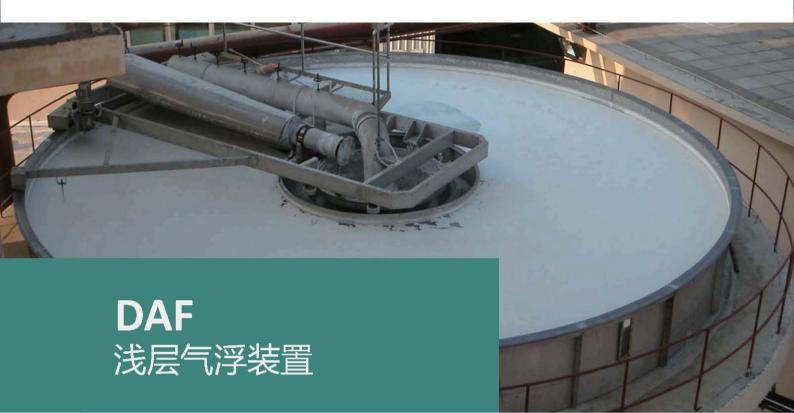


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DAF SERIES DISSOLVED AIR FLOTATION CLARIFIER

DAFR dissolved air flotation claifier







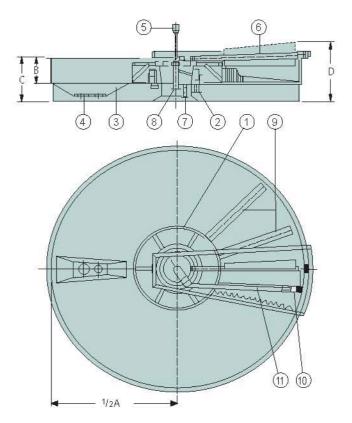
Applications

- 1. Paper making white water treatment and fibre recovery
- Physical treatment of industrial wastewater such as dyeingwastewater, chemical wastewater, light Industry wastewater,food wastewater and pharmaceutical waste.
- Separation of water and biologic floccules in biotreatment (instead second setting tank)
- Reuse of cooling water in production and water baths, other waste water treatment for separating the solid and liquid.

Features

- 1. The retention time is short, only 3 minutes are required.
- 2. Super high surface load: 180~200 m³/(m²d).
- 3. The water depth of air flotation basin is approximately 40cm, which will not change due to different handling capacity.
- 4. The above-mentioned three features make the volume, area and height of our company's air flotation basin small and compact. Removal ratio for suspended solid is above 90-95%, after-treated concentration of suspended solid maintains 30-50mg/l.
- 5. The unit weight of air flotation basin is light. It can be mounted on everywhere. When it is in-service use, the elevated installation can utilize its space as well as its after-treated clear water and scum more efficiently, the costs for design of sludge pump and motive power can be saved because of gravity action.
- 6. The costs for stainless steel's manufacturing, operation and maintenance are low, and water-producing effect is ideal under the condition no medicament is added.
- The equipment can be used in sludge concentration basin, making scum to concentrate to 5-8%, increasing dehydration effect for sludge and relieving treatment burden for sludge.
- 8. All central collectors with special phosphorus-copper material and exterior cable steel rope racks are equipped up to the standard.
- 9. Motor shaft has a particular plug-in structure.

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Construction

NO.	Name
1	Movable rotating section
2	Clarified water outlet
3	Settled sludge sump
4	Settled sludge & drain outlet
5	Rotary contact
6	Scoop
7	Floated sludge outlet
8	Raw waterinlet
9	Clarified water extraction pipes
10	Gear motors
11	Distribution duct

Performance parameters

	Dimensions								Flow		
Туре	(<i>mm</i>)	B (in)	B (mm)	C (in)	C (mm)	D (in)	D (<i>mm</i>)	(m³/min)	US GPM	(m³/h)	
DAFR8	2400	23.5	600	33	850	45	1150	0.56	148	34	
DAFR10	3200	23.5	600	33	850	49	1250	1,00	263	60	
DAFR12	3900	25.5	650	35	900	51	1300	1.50	394	90	
DAFR15	4500	25.5	650	37	950	57	1450	2.00	525	120	
DAFR18	5500	25.5	650	37	950	58	1480	3.00	789	180	
DAFR20	6100	25.5	650	37	950	61	1560	3,65	961	219	
DAFR22	6700	25.5	650	37	950	62	1580	4.40	1160	264	
DAFR24	7200	25.5	650	37	950	63	1600	5.08	1340	305	
DAFR27	8100	25.5	650	37	950	67	1700	6.44	1695	356	
DAFR30	9000	25.5	650	37	950	71	1820	7.95	2090	477	
DAFR33	10000	25.5	650	37	950	72	1840	9.80	2580	588	
DAFR36	11000	25.5	650	37	950	73	1860	11.87	3125	712	
DAFR40	12000	26	660	38	960	76	1920	14.6	3840	876	
DAFR44	13400	27	685	39	985	78	1980	17.6	4630	1056	
DAFR49	14800	27	685	39	985	82	2070	21.5	5650	1290	
DAFR55	16800	27	685	39	985	87	2200	27.7	7290	1662	
DAFR62	18900	29.5	750	41	1050	93	2350	33.3	8800	2000	
DAFR70	21300	29.5	750	41	1050	93	2350	41.6	11000	2500	

DAFS dissolved air flotation claifier









Applications

- 1. Food Industry effluents with high solids concentration.
- 2. Oil and Fats.
- 3. Sludge Thickening.
- 4. Galvanizing Electro planting.
- 5. Pharmaceutical Industry.
- 6. Leather Industry, etc.

Features

- 1. High loaded rate with hydraulic capacity (q=3 5 m3/m2h, SS=1000mg/L)
- 2. Compact footprint with high stability of operation.
- 3. High-rated clarification for low turbidity water (light particles, oil and colloid).
- 4. Efficient in energy saving, highly cost effective.
- 5. Package systems bring about lower installation cost.
- 6. Safety operation because of using fully closed scraper.
- 7. Positive sludge discharge because of W-shape sludge sedimentation hopper.

Carbon Steel surface finish and corrosion treatment

- Sand Blasting/ Shot Peening, ISO Sa≥2.5, epoxy Zinc Rich Primer, 50µm/coat.
 Internal: a) Epoxy Zinc-rich Primer, 50µm/coat×1;
 - b) Epoxy Mastic Paint, 100μm/coat×2~3;
 - c) Total film thickness: $\geq 250 \mu m$.
- 3. External: a) Epoxy Zinc-rich Primer, 50µm/coat×1;
 - b) Epoxy Micaceous Iron Intermediate Paint, 50µm/coat×1;
 - c) Polyurethane Finish, 50µm/coat×1;
 - d) Total film thickness: ≥150µm.

Spraying Method: High-Pressure Airless Spraying Device Color: Light Sea Blue (PANTONE No.RAL5015), or according to customers' demands.

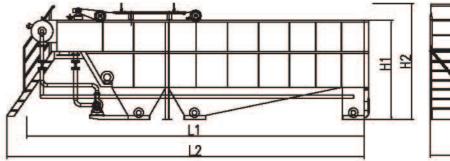
Standards for Interface Flange

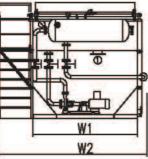
China: JB/T81-1994, PN 1.0 America: ANSI 150 Japan: JIS 10K

Bolts and Nuts

Liquid Part: SUS304 Uncontact Liquid Part: Carbon Steel Galvanized

Performance parameters





	Capacity	Power (kW)			Dimensions (m)			Pipe connection dimensions(DN)		
	(<i>m³/h</i>)	Pump	Air Compressor		L1/L2	W1/W2	H1/H2	inlet	outlet	
DAFS2	2	0.75	0.55	0.2	2.7	1.32	2	40	40	80.
DAFS3	3	0,75	0.55	0.2	2.7/3.6	1.5/2.2	2.1	80	50	100
DAFS5	5	1,1	0.55	0.2	2.8/3.6	1.7/2.3	2.1	80	80	100
DAFS10	10	1.5	0.55	0.2	3.7/4.5	1.9/2.6	2.4	100	80	100
DAFS20	20	3	0.75	0.2	5.0/5.7	2.0/2.9	2.1/2.5	150	100	100
DAFS30	3.0	3	0.75	0.2	5.9/6.5	2.2/3.0	2.2/3.0	150	150	150
DAFS40	40	5.5	0.75	0.2	7.5/8.1	2.2/3.0	2.2/3.0	200	150	150
DAFS50	50	5.5	0.75	0.2	8.5/9.0	2.2/3.0	2.3/2.7	200	200	150
DAFS60	60	7.5	1.5	0.2	9.0/9.5	2.6/3.6	2.3/2.7	200	250	150
DAFS70	70	7.5	1.5	0.2	9.0/9.5	2.8/3.8	2.3/2.7	250	200	150
DAFS80	80	11	1.5	0.2	11.6/12.0	2.8/3.8	2.3/2.7	250	200	150
DAFS90	90	11	15	0.2	11.2/11.6	3.0/4.0	2.3/2.7	250	250	150
DAFS100	100	15	1.5	0.2	11.6/12.0	3.0/4.0	2.3/2.7	300	250	150
DAFS120	120	15	2.2	0,2*2	9.0/9.5	6	2.3/2.7	300	300	150
DAFS150	150	18.5	3	0.2*2	11.6/12.0	6.5	2.3/2.7	250*2	200*2	150*2
DAFS200	200	22	4	0.2*2	11.6/12.0	6.7	2.3/2.7	250*2	250*2	150*2

DAFSS sedimentation dissolved air flotation claifier









Applications

1. For treating suspended solids or contaminants of gravity generally closed to or less than water, especially efficient for suspensions settling slowly, remaining in suspension, or having a tendency to float.

- 2. Oil and Fats.
- 3. Food Industry effluents with high solids concentration.
- 4. Sludge Thickening.
- 5. Galvanizing Electro planting.
- 6. Pharmaceutical Industry.
- 7. Leather Industry, etc.

Features

- 1. High hydraulic load and less footprint.
- 2. High-rated clarification for high SS water (light particles, oil and colloid).
- 3. Better outlet water quality.
- 4. Effectively minimize chemical consumption.
- 5. No blind angle in scum collection chamber.

Carbon Steel surface finish and corrosion treatment

1. Sand Blasting/ Shot Peening, ISO Sa \geq 2.5, epoxy Zinc Rich Primer, 50 $\mu m/coat.$

- 2. Internal: a) Epoxy Zinc-rich Primer, 50µm/coat×1;
 - b) Epoxy Mastic Paint, 100µm/coat×2~3;
 - c) Total film thickness: ≥250µm.

3. External: a) Epoxy Zinc-rich Primer, 50µm/coat×1;

- b) Epoxy Micaceous Iron Intermediate Paint, 50µm/coat×1;
 - c) Polyurethane Finish, 50µm/coat×1;
 - d) Total film thickness: ≥150µm.

Spraying Method: High-Pressure Airless Spraying Device Color: Light Sea Blue (PANTONE No.RAL5015), or according to customers' demands.

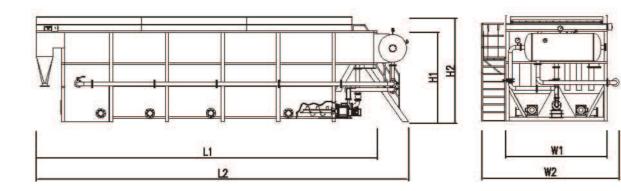
Standards for Interface Flange

China: JB/T81-1994, PN 1.0 America: ANSI 150 Japan: JIS 10K

Bolts and Nuts

Liquid Part: SUS304 Uncontact Liquid Part: Carbon Steel Galvanized

Performance parameters



	Capacity	Power (kW)			Dimensions (m)			Pipe connection dimensions(DN)		
	(m³/h)	Pump	Air Compressor	Skimmer	L1/L2	W1/W2	H1/H2	inlet	outlet	sludge outle
DAFSS32	3	1.1	0.55	0.12	2.3	1.3	2.4	50	50	50.
DAFSS5	5	1,1	0.55	0.12	25/3.7	1.5/2.2	2.1/2.5	80	50	100
DAFSS10	10	1.5	0.55	0.12	3.8/5.1	1.7/2.4	2.4/3.0	100	80	100
DAFSS20	20	3	0.75	0.12	4.1/5.4	2.2/2.9	2.4/3.0	150	150	150
DAFSS30	30	5.5	0.75	0.12	4.9/5.5	2.1/3.1	2.5/3.1	150	150	150
DAFSS40	40	7.5	0.75	0.12	5.2/6.5	2.0/2.9	2.5/3.1	200	150	150
DAFSS50	50	7.5	1.5	0.18	6.6/7.2	2.0/2.9	2.5/3.1	200	200	150
DAFSS60	60	7.5	1.5	0.18	7.3/7.9	2.2/3.1	2.5/3.1	2.00	200	150
DAFSS70	70	7.5	1.5	0.18	7.4/8.2	2.4/3.3	2.7/3.3	250	200	150
DAFSS80	80	11	2.2	0.18	8.5/9.4	2.4/3.1	3.3	250	250	150
DAFSS100	100	15	2.2	0.18	8.8/10.0	3.0/3.7	3.3	300	300	200
DAFSS120	120	18.5	3	0.18	9,7/10,9	3.0/3.7	3.3	300	300	200
DAFSS150	150	18.5	3	0.18	12.2/13.5	3.0/3.7	3.3	350	350	200
DAFSS200	200	22	4	0.18*2	9.6/10.8	6.7	3.3	300*2	300*2	200*2
DAFSS300	300	37	5.5	0.18*2	12.6/13.5	6.7	3.3	350*2	350*2	200*2
DAFSS500	500	45	7.5	0.18*2	15	7.2	3.3	450*2	450*2	200*2



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