



源 申 环 保

专注分离 服务环境

Focus on separation service for environment

产品手册

Product manual



我们合作伙伴、产品用户

无锡源申环保设备有限公司 成立于2011年，是一家致力于废水处理设备设计、制造、安装于一体的专业化公司。公司拥有专业的技术研发、规划设计、设备制造、施工安装、产品销售和售后服务团队。公司拥有多项专利技术。

自成立之初，考虑到客户对环保各方面的要求，引进欧美国家先进的环保理念和设备加工技术，依靠在国内多年制造污水处理设备的经验，组建了专业生产气浮、斜板沉淀池、水力筛、无轴螺旋输送、刮泥机、叠螺污泥脱水机等产品的环保公司。公司针对每个客户设计不同的方案，量身定做适合客户的规划方案。公司靠着优质的产品、合理的价格、专业的服务，在国内外电子、化工、制药、印染、造纸、焦化、食品、市政等各个领域，都收到了知名企业和单位的一致好评。

源申环保 引进先进的管理模式，以人为本，充分发挥出每位员工的力量。我们本着诚信为本，信誉至上的原则，为客户提供高品质的专业设备、准确高效的服务。

Wuxi Yosun Environmental Protection Equipment Co.,Ltd. established in 2011, Yosun is a professional manufacturer engaged in the research, development, production, sale and service of wastewater treatment. Yosun has a number of patented technologies.

We have taken into account the requirements of customers for environmental protection. Introduction of advanced environmental concepts and equipment processing technology in Europe and America, depended on the experience of manufacturing wastewater treatment equipment in China for many years, Our products include Dissolved air flotation、Lamella Clarifier、Hydraulic screen、screw conveyors、Center drive scraper、Stacking screw type sludge dewatering machine、flocculant agent、Coagulant agent etc.

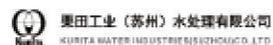
We provide different plans for each customer and tailored planning to customers. We are increasingly expanding our international. market share based on quality products,excellent service, reasonable price and timely delivery.

It has been well received in the fields of electronics, chemical industry, pharmacy, printing and dyeing, paper-making, coking, food, municipal administration ect. at mainland and abroad

Yosun has introduced advanced management mode, People-oriented concept, We pursue the management tenet of "Quality is superior, Service is supreme, Reputation is first", and will sincerely create and share success with all clients.



我们合作伙伴、产品用户



气浮篇

- DAF-标准型
- DAF2 -标准沉淀型
- SDAF-高密度沉淀型
- IDAF/IDAF2—
- SAF-超效浅层型
- DAF/DAF2 -大水量型

Dissolved air flotation





工艺原理及理论

主要用来分离去除水中难以沉降且密度接近于水或比水小的微小悬浮物、胶体、油或油脂类物质。

气浮过程中形成大量微细而均匀的气泡 ($5\sim 80\mu\text{m}$) 形成气泡、水、絮体 (油) 三相混合物, 气泡作为载体, 与水中悬浮絮体颗粒充分混合、接触、黏附, 形成夹气絮体上浮到液体表面, 通过机械刮沫机撇除浮渣达到分离杂质、净化水质目的。

溶气过程理论依据-亨利定律即溶气浮系统中, 空气在高压下溶于水并接近饱和状态, 在减压至近常压下释放, 溶解的过饱和空气以微小气泡形式从水中析出进行气浮。

Dissolved Air Flotation is liquid/solid or liquid/liquid separation process to remove tiny suspended solids that density close to the water, colloid, oil and grease etc. Jorsun DAF is an innovation combined with traditional dissolved air flotation concept and modern technology. A large numbers of fine and uniform bubble ($5 - 80\mu\text{m}$), bubbles, water, floc (oil) three-phase mixture, as a carrier, bubbles mixed with floc particles suspended in the water. Connection, adhesion, form floc with bubbles and float to the liquid surface, scraping scum to achieve separation of impurities, water purification

应用领域

目标是分离水中悬浮物、胶体、油或油脂以及藻类等物质。
分离或回收废水中油或油脂：石油开采及炼制、生物柴油、

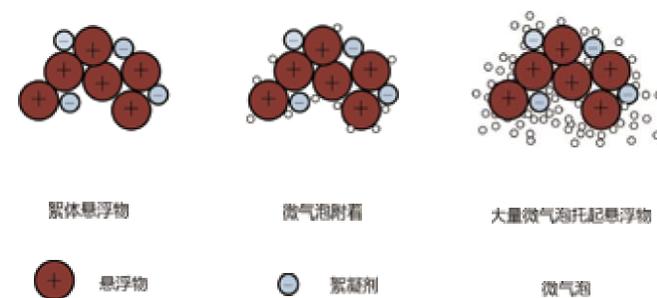
高浓度有机废水预处理：造纸、印染、纺织、皮革、制药、

生化出水固液分离（深度处理）：厌氧出水固液分离、好氧（活性污泥法、接触氧化、滤池）生化出水固液分离、二沉池出水深度处理等。

养殖及屠宰废水预处理：养（牛、猪、鸡）殖场、屠宰厂废水。

制造业废水物化处理：电镀、喷涂等。

水的深度净化：河道水处理、景观水及深度回用水等。

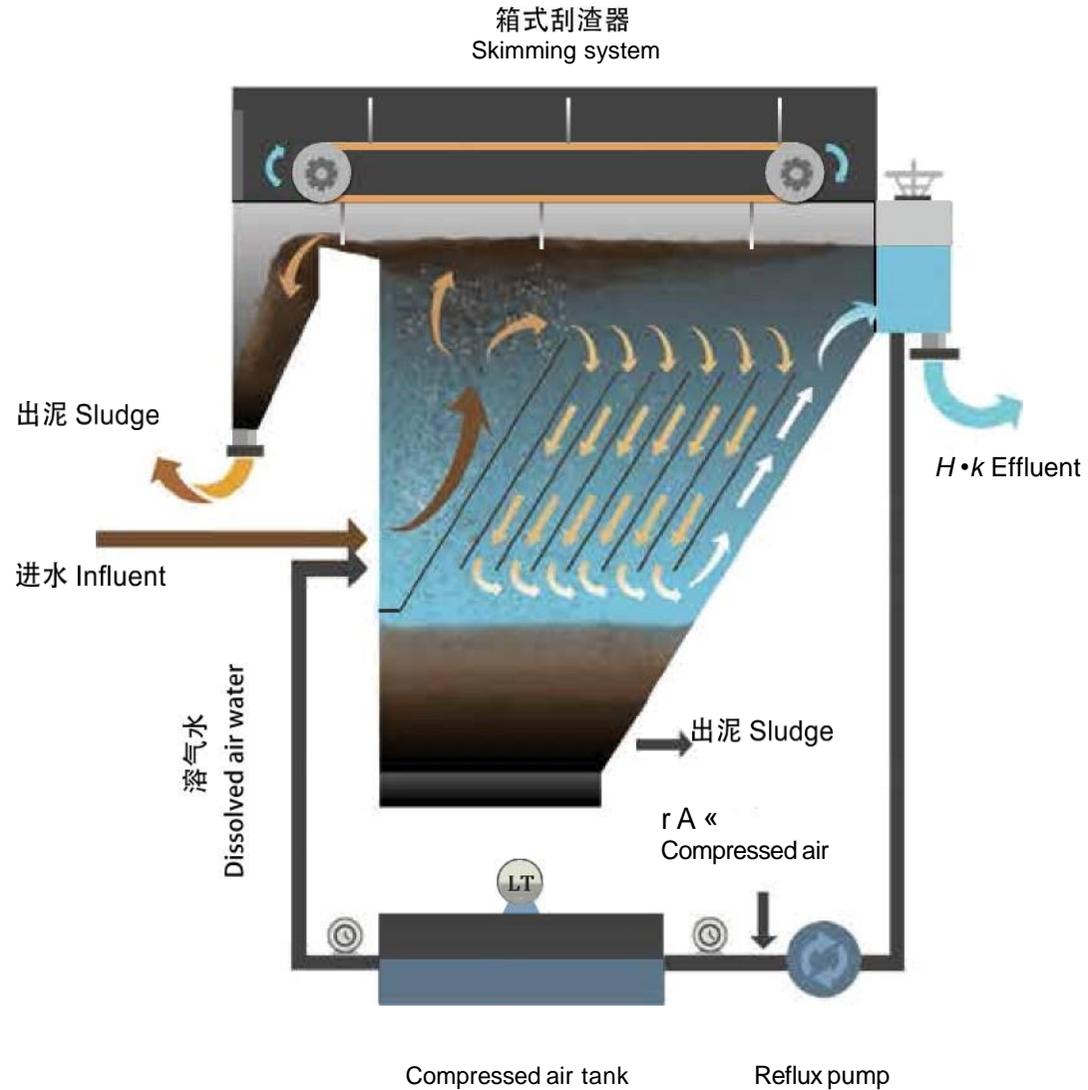


DAF Application

DAF's aim is to separate the fine suspended solids in water, algae and micro-floc. Separate or recycle waste oil or grease in high concentration organic wastewater treatment: paper, printing and dyeing, textile, leather, pharmaceutical, fermentation wastewater and so on. Biochemical effluent liquid/solid separation: the anaerobic effluent solid/liquid separation, aerobic (activated sludge process, contact oxidation, filter) biochemical water solid/liquid separation, the secondary settling tank Effluent treatment and so on. Farm and slaughter house wastewater treatment: cattle, pigs, chickens farm, slaughter house wastewater. Manufacturing waste: electroplating, painting, etc. Water purification: river, landscape, water reuse and so on.

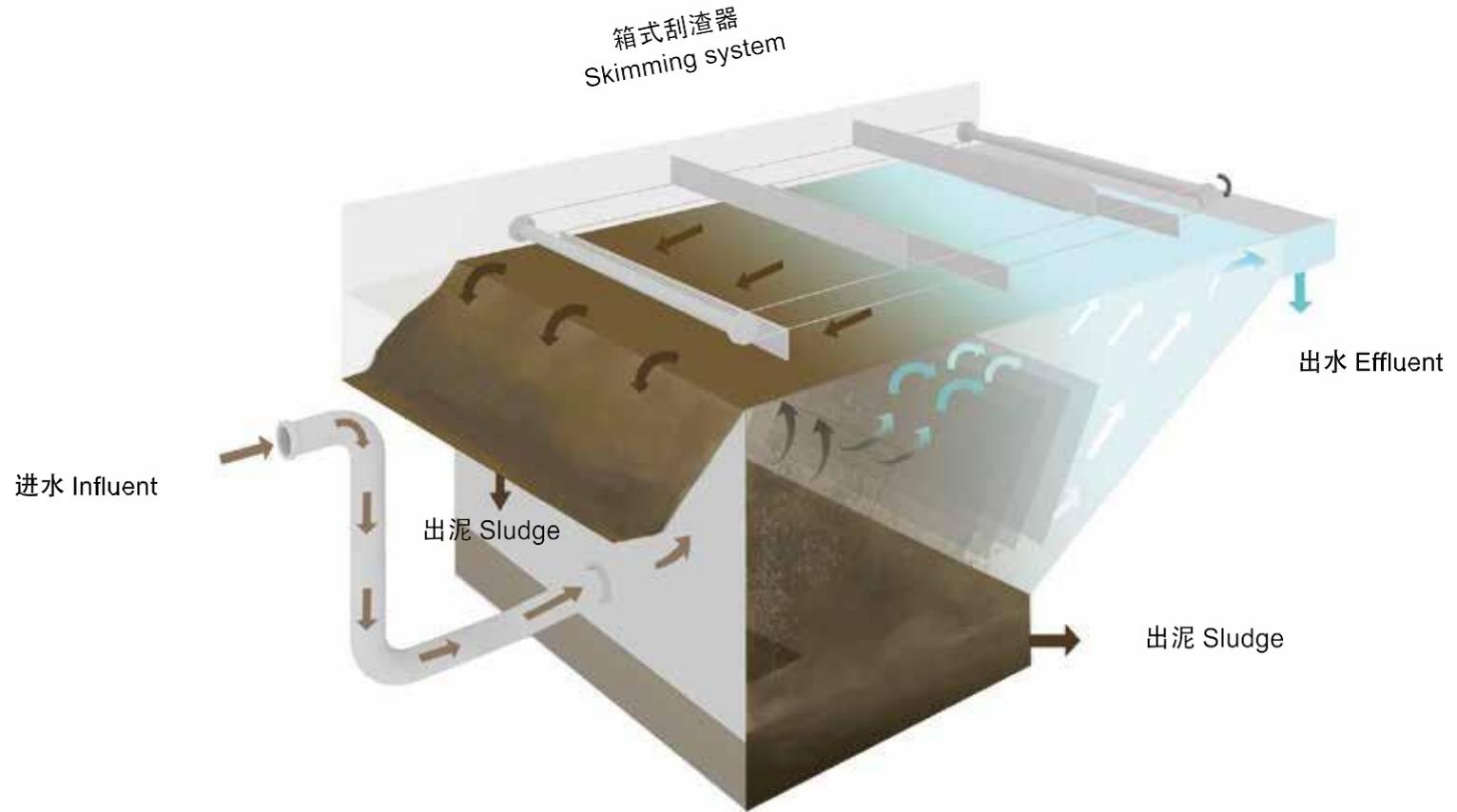


DAF Process



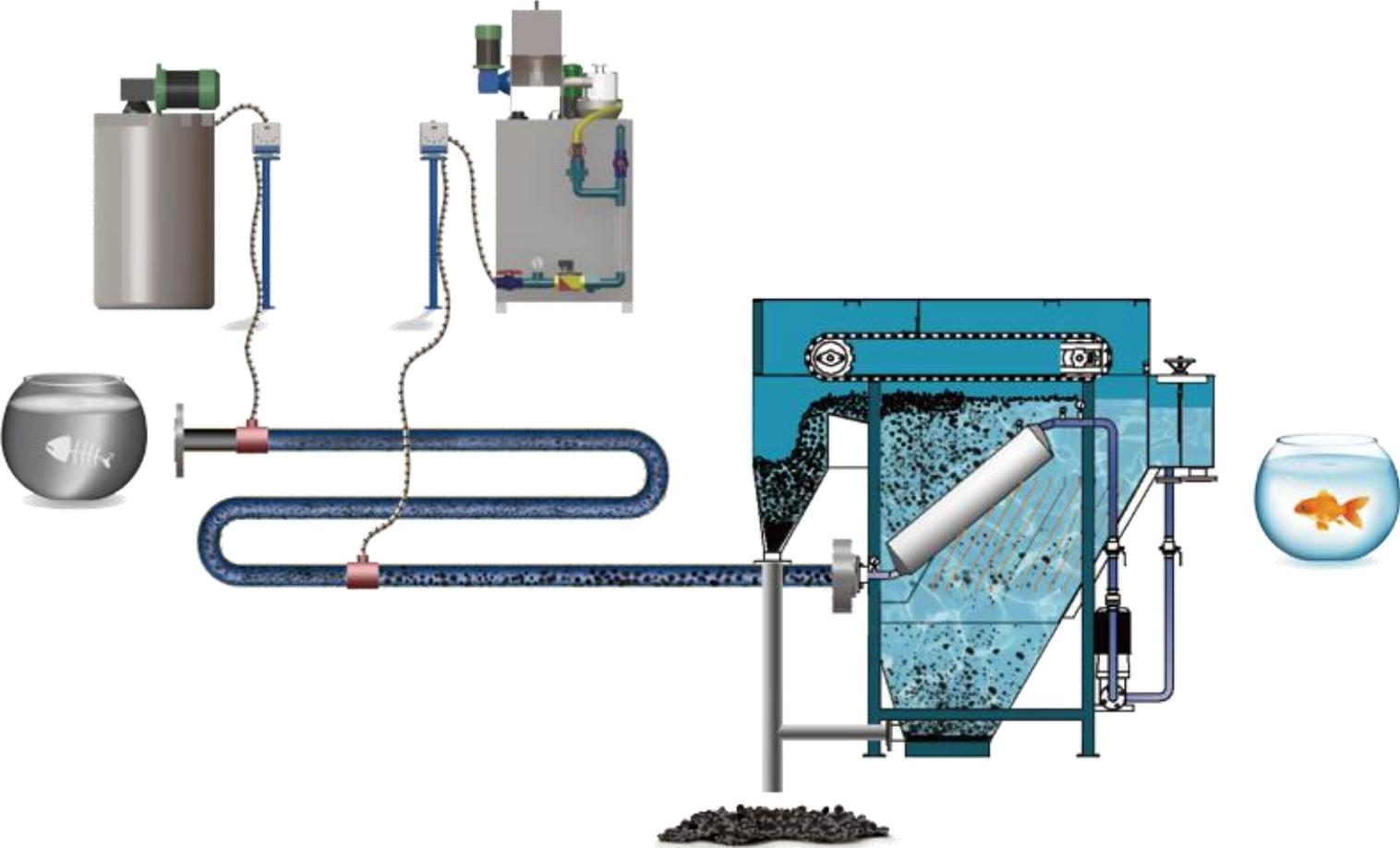
气浮分离原理

DAF Separation Mechanism

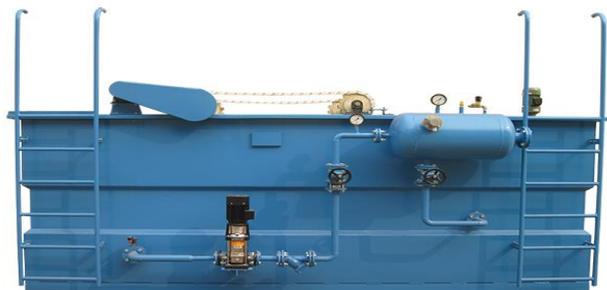


气浮系统原理

DAF System Process



标准式气浮 Standard DAF



特点及优势

- 整体成套化，结构紧凑、性价比高
- 市场保有量大，成熟度高，性能稳定，运行可靠
- 水力负荷：4~6m³/(m².h)
- 最大允许进悬浮物浓度~3000mg/L
- 浮渣可实现自动撇除，固含量可高达30~100g/L
- 及针对固絮体物密度普遍比水轻或接近于水沉淀现象微弱的水质

DAF

历经了三十多年的发展演变，积淀了精华并融入了现代技术，大幅度提升DAF运行稳定性和分离效率。用户量超过千例，遍布行业数过百。

核心技术：

- 微气泡发生技术
- 浮渣区固液分离技术

Core technology :

- Micro bubble generation technology
- Forth circulation and flocculation technology

Superiority

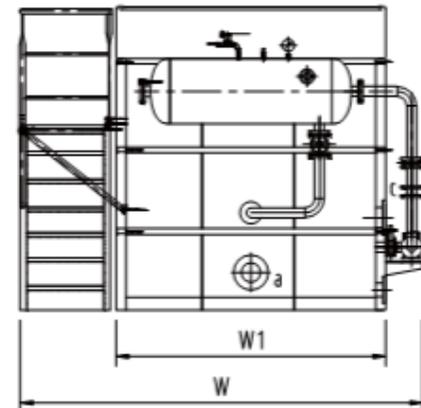
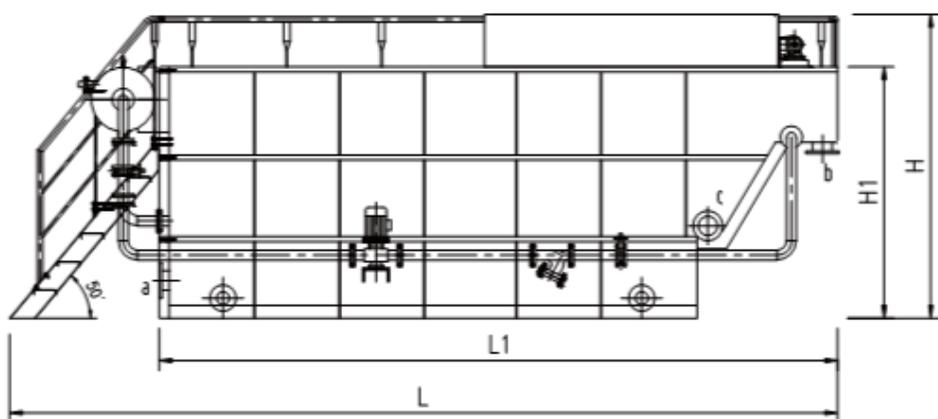
Overall specialized, compact structure, and high performance Huge markets ,high maturity, stable performance and reliable operation

Hydraulic load: 4- 6 in" / (mph)

Maximum inlet SS concentration is 3000 mg/L

Automatic scum removal, solid content can be up to 30 - 100 mg/L Applied for the wastewater with suspended solids & floc density lighter than water or close to the water and weak precipitation phenomenon

型号 model	处理量Capacity	功率表 (kW) Power			规格尺寸 (m) Dimension			管口表 (DN) Nozzle list		
	(m ³ /h)	溶气泵 Recirculation pump	加气机 Air compressor	撇渣机 Skimmer	L/L ₁	W/W ₁	H/H ₁	进水口 Inlet (a)	出水口 Outlet (b)	排泥口 Sludge outlet (c)
DAF-002	~ 2	0.75	0.55	0.2	3.2/2.5	2.4/1.16	2.2/1.7	40	40	80
DAF-003	~ 3	0.75	0.55	0.2	3.5/2.8	2.4/1.16	2.2/1.7	80	80	100
DAF-005	~ 5	1.1	0.55	0.2	3.8/3.0	2.4/1.16	2.2/1.7	80	80	100
DAF-010	~ 10	1.5	0.55	0.2	4.5/3.8	2.7/1.36	2.4/1.9	100	100	100
DAF-015	~ 15	2.2	0.75	0.2	5.5/4.5	2.9/1.6	2.4/1.9	100	100	100
DAF-020	~ 20	3.0/5.5	0.75	0.2	5.7/4.8	3.2/2.2	2.4/1.9	150	150	150
DAF-030	~ 30	3.0/5.5	0.75	0.2	6.5/5.5	3.2/2.2	2.5/2.0	150	150	150
DAF-040	~ 40	4.0/5.5	0.75	0.2	7.7/6.7	3.6/2.6	2.5/2.1	200	200	150
DAF-050	~ 50	7.5	0.75	0.2	8.1/7.1	3.6/2.6	2.5/2.1	200	200	150
DAF-060	~ 60	7.5	1.5	0.2	9.5/8.4	3.8/2.8	2.5/2.1	250	250	150
DAF-070	~ 70	11	1.5	0.2	10.0/9.0	3.8/2.8	2.5/2.1	250	250	150
DAF-080	~ 80	11	2.2	0.2	10.5/9.5	4.0/3.0	2.5/2.1	250	250	150
DAF-100	~ 100	15	2.2	0.2	11.7/10.6	4.2/3.2	2.5/2.1	300	250	150
DAF-120	~ 120	15	2.2	0.2	12.5/11.4	4.4/3.4	2.5/2.1	300	300	150



标准沉淀型气浮 Standard Sedimentation DAF



DAF2

沉淀现象尤为严重，大量沉降物影响出水水质和运行稳定性，DAF2能有效排除沉淀物保证气浮稳定运行。

Core technology :

- Micro bubble generation technology
- Forth circulation and flocculation technology
- Precipitation theory

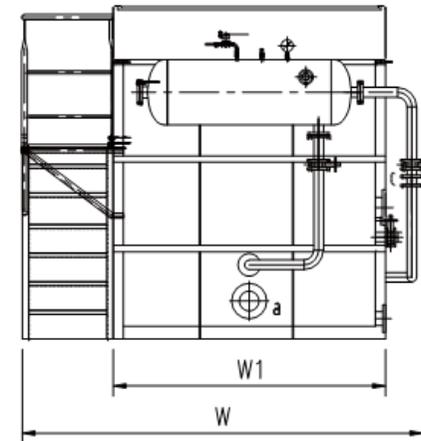
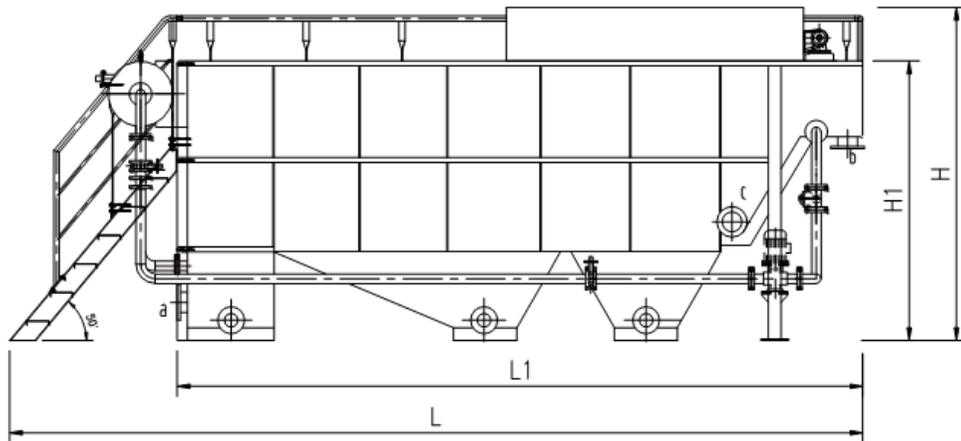
特点及优势

- 标准气浮升级版
- 具有更高的运行稳定性及可靠性能
- 高水力负荷：4~8m³/(m².h)
- 最大许进水悬浮物浓度~4000mg/L
- 浮渣可实现自动排放，含固量可高达30~100g/L
- 侧封闭式刮渣系统，确保运行及操作安全

Superiority

- The standard DAF System upgrade
- Higher operation stability and reliability
- High hydraulic load: 4 - 8 m³ (2h)
- Maximum inlet SS concentration is 4000 mg/L
- Automatic scum discharge, solid content can be up to 30 - 100 mg/L
- Overall disassembly, easily transportation and installation
- "W" type sludge hopper
- Side closed scraping system, ensure safety running and operation
- Applied for the wastewater with suspended solids & floc density lighter than water or close to the water and precipitation phenomenon

型号 model	处理量Capacity	功率表 (kW) Power			规格尺寸 (m) Dimension			管口表 (DN) Nozzle list		
	(m ³ /h)	溶气泵 Recirculation pump	加气机 Air compressor	撇渣机 Skimmer	L/L ₁	W/W ₁	H/H ₁	进水口 Inlet (a)	出水口 Outlet (b)	排泥口 Sludge outlet (c)
DAF2-010	~ 10	1.5	0.55	0.2	4.5/3.8	2.7/1.36	2.5/2.1	250	100	100
DAF2-015	~ 15	2.2	0.75	0.2	5.6/4.5	2.9/1.6	2.5/2.0	100	100	100
DAF2-020	~ 20	3.0/5.5	0.75	0.2	5.8/4.8	3.2/2.2	2.5/2.0	150	150	150
DAF2-030	~ 30	3.0/5.5	0.75	0.2	6.7/5.5	3.2/2.2	2.7/2.2	150	150	150
DAF2-040	~ 40	4.0/5.5	0.75	0.2	7.9/6.7	3.6/2.6	2.7/2.2	200	200	150
DAF2-050	~ 50	7.5	0.75	0.2	8.3/7.1	3.6/2.6	2.7/2.2	200	200	150
DAF2-060	~ 60	7.5	1.5	0.2	9.7/8.4	3.8/2.8	2.9/2.4	250	250	150
DAF2-070	~ 70	11	1.5	0.2	10.2/9.0	3.8/2.8	2.9/2.4	250	250	150
DAF2-080	~ 80	11	2.2	0.2	10.7/9.5	4.0/3.0	2.9/2.4	250	250	150
DAF2-100	~ 100	15	2.2	0.2	11.9/10.6	4.2/3.2	2.9/2.4	300	250	150
DAF2-120	~ 120	15	2.2	0.2	12.5/11.4	4.4/3.4	2.9/2.4	300	300	150



一体式气浮 Integrated DAF



将化学反应与气浮结合于一体的装置。
化学混合反应器（机械混合反应或管道混合反应）和气浮一体化的解决方案，该系统更加集约，为用户节省更多占地。

将化学反应与气浮结合于一体的装置。
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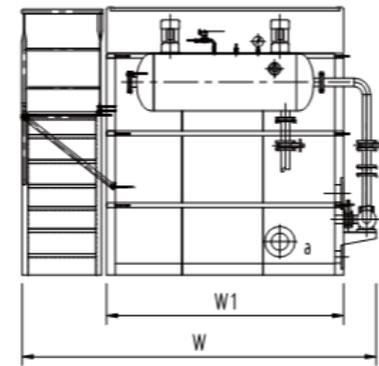
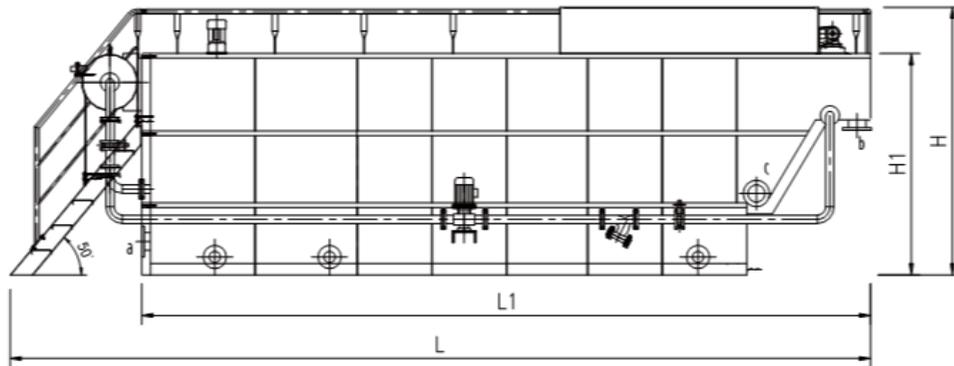
特点及优势

- 化学混合反应与气浮的完美结合。
- 结构紧凑、集约、成套性高。
- 根据工艺实际要求，量身设计制造。

Superiority

- Perfect combination of chemical reaction device and DAF system.
- Compact structure, intensive and systematic.
- Customized design and manufacturing according to the technological requirements.

型号 Model	处理量Capacity		Power功率表 (kW)				规格尺寸Dimension (m)				管口表Nozzle list (DN)		
	(m3/h)	溶气泵 Recirculation pump	加气机 Air compressor	撇渣机 Skimmer	混凝搅拌机 Coagulation mixer	絮凝搅拌机 Flocculation mixer	L/L ₁	W/W1	IDAF H/H	IDAF2 H/H	进水口 inlet (a)	出水口 Outlet (b)	排泥口 Sludge outlet (c)
IDAF-002	~2	0.75	0.55	0.2	0.2	0.2	3.9/3.0	2.4/1.16	2.2/1.7	40	40	80	
IDAF-003	~3	0.75	0.55	0.2	0.2	0.2	4.2/3.3	2.4/1.16	2.2/1.7	80	80	100	
IDAF-005	~5	1.1	0.55	0.2	0.2	0.2	4.5/3.5	2.4/1.16	2.2/1.7	80	80	100	
IDAF-010	~10	1.5	0.55	0.2	0.4	0.2	5.5/4.5	2.7/1.36	2.4/1.9	2.5/2.1	100	100	100
IDAF-015	~15	2.2	0.75	0.2	0.4	0.2	6.4/5.5	2.9/1.6	2.4/1.9	2.5/2.0	100	100	100
IDAF-020	~20	3.0/5.5	0.75	0.2	0.4	0.2	6.7/5.8	3.2/2.2	2.4/1.9	2.5/2.0	150	150	150
IDAF-030	~30	3.0/5.5	0.75	0.2	0.4	0.2	7.9/6.7	3.2/2.2	2.5/2.0	2.7/2.2	150	150	150
IDAF-040	~40	4.0/5.5	0.75	0.2	0.75	0.4	9.1/8.0	3.6/2.6	2.5/2.1	2.7/2.2	200	200	150
IDAF-050	~50	7.5	0.75	0.2	0.75	0.4	9.8/8.7	3.6/2.6	2.5/2.1	2.7/2.2	200	200	150
IDAF-060	~60	7.5	1.5	0.2	0.75	0.4	11.3/9.9	3.8/2.8	2.5/2.1	2.9/2.4	200	250	150
IDAF-070	~70	11	1.5	0.2	0.75	0.4	12.2/11.0	3.8/2.8	2.5/2.1	2.9/2.4	250	250	150
IDAF-080	~80	11	2.2	0.2	0.75	0.4	12.6/11.5	4.0/3.0	2.5/2.1	2.9/2.4	250	250	150
IDAF-100	~100	15	2.2	0.2	0.75	0.4	14.2/13.0	4.2/3.2	2.5/2.1	2.9/2.4	250	250	150
IDAF-120	~120	15	2.2	0.2	0.75	0.4	15.0/13.8	4.4/3.4	2.5/2.1	2.9/2.4	300	300	150



超效浅层气浮 High efficient superficial DAF



SAF

SAF适于水量大、固液/液液分离速度快（易浮）废水处理用的、具有高性价比的气浮。其基于“浅池理论”和“零速原理”设计的高效快速固液分离设备。气浮池水深0.6~0.8m，水力停留时间6~10min，大大缩短了停留时间，提高气浮效率。

核心技术：

- 浅层理论
- 零速原理
- 管道接触释放
- 高效溶气和微气泡发生技术

Core technology：

- Shallow tank theory
- Zero velocity principle
- Efficient air dissolving and micro bubble generation tech
- Pipe contact releasing tech

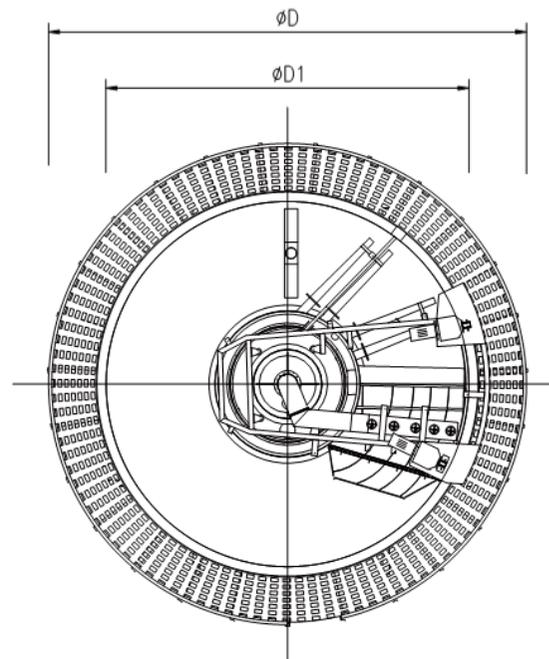
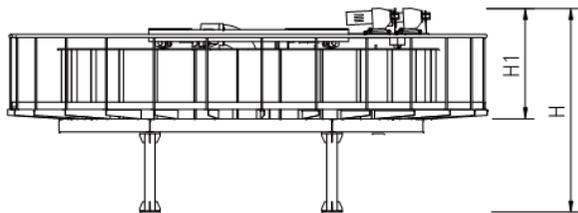
特点及优势

- 单台处理水~1000m³/h
- 水力停留时间短，基础负荷小
- 性价比高

Superiority

- Great capacity(~1000m³/h)
- Short HRT and high surface load
- Super cost-effective

型号 Model	处理量 Capacity	功率表 (kW)				规格尺寸 Dimension (m)		管口表 Nozzle list (DN)		
	(m ³ /h)	溶气泵 Recirculation pump	加气机 Air compressor	撇渣机 Skimmer	主驱动 Main Driver	φ/φ1	H/H1	进水口 inlet (a)	出水口 Outlet (b)	排泥口 Sludge outlet (c)
SAF-080	~ 80	11	1.5	0.4	0.75	4.5/6.2	0.8/1.5	250	250	150
SAF-100	~ 100	15	2.2	0.4	0.75	5.0/6.6	0.8/1.5	300	300	200
SAF-120	~ 120	15	2.2	0.4	0.75	6.0/7.6	0.8/1.5	300	300	200
SAF-150	~ 150	18.5	3	0.75	1.1	7.0/8.6	0.8/1.6	350	350	200
SAF-200	~ 200	22	4	0.75	1.1	8.0/9.6	0.8/1.8	400	400	200
SAF-250	~ 250	30	5.5	0.75	1.5	9.0/10.6	0.8/1.8	400	400	200
SAF-300	~ 300	30	5.5	0.75	1.5	10.0/11.6	0.8/1.8	450	450	200
SAF-400	~ 400	45	7.5	0.75	1.5	11.0/12.6	0.8/2.0	450	450	200
SAF-500	~ 500	55	7.5	0.75	1.5	12.0/13.6	0.8/2.0	500	500	200



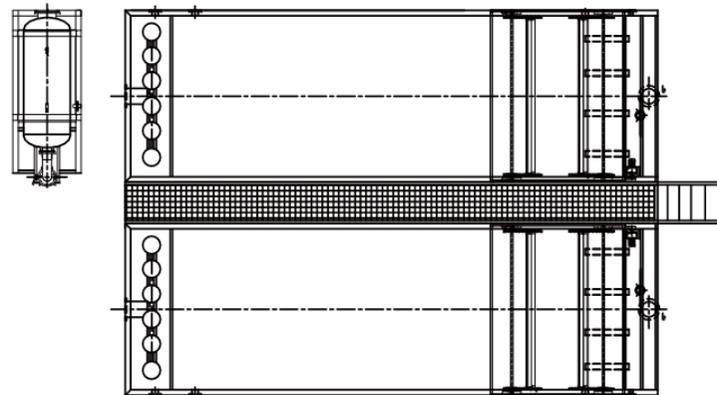
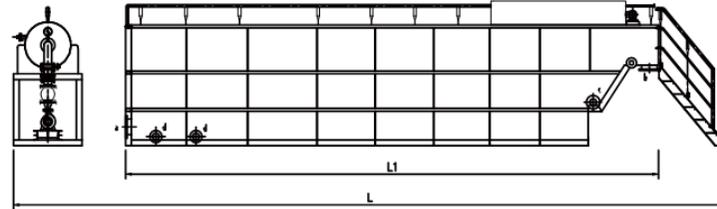
大水量气浮 Large capacity DAF



DAF/DAF2

大水量项目使用气浮工艺受制于制造、运输等限制难于工厂成套话。Yosun 公司致力于大型成套气浮设备的研究和应用。使用独立溶气系统+多个气浮分离槽的方式实现大水量气浮处理目的。

型号	处理量	功率表 (kW)			规格尺寸 (m)			管口表 (DN)		
	(m3/h)	溶气泵	加气机	撇渣机	L/L1	W/W1	H/H1	进水口 (a)	出水口 (b)	排泥口 (c)
DAF-150	~ 150	18.5	2.2	0.2×2	12.5/9.4	6.8/3.0	2.4/1.9	250×2	250×2	150×2
DAF2-150					12.7/9.4		2.9/2.4			
DAF-180	~ 180	22	3.0	0.2×2	13.0/9.4	6.8/3.0	2.4/1.9	250×2	250×2	150×2
DAF2-180					13.3/9.9		2.9/2.4			
DAF-200	~ 200	22	3.0	0.2×2	13.5/10.6	7.2/3.2	2.4/1.9	300×2	250×2	150×2
DAF2-200					13.7/10.6		2.9/2.4			
DAF-250	~ 250	30	4.0	0.2×2	15.0/11.4	7.6/3.4	2.4/1.9	300×2	300×2	150×2
DAF2-250					15.0/11.4		2.9/2.4			





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