



## WFA溶气系统

WFA gas dissolution system

### 工作原理

本溶气系统采用射流吸气原理，在工作压力0.3-0.5Mpa左右，通过喷嘴、混合管中水流的高速运动，使大量的空气在最短时间内被吸入，并在混合管中被高速切割成微气泡，然后最大限度地溶入水中，形成超饱和的溶气水。并通过后续的减压释放出大量地直径在5-10  $\mu\text{m}$ 的微气泡，与水中的絮体相结合，形成稳定的夹气絮体，一起上浮至水面，完成絮浮物的分离。

### Working principle

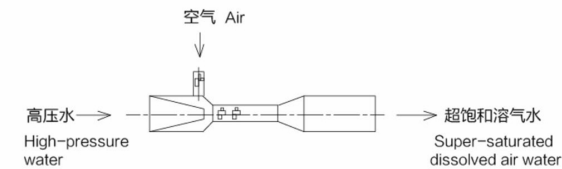
This dissolved air system operates under the principle of jet suction, and at the working pressure of about 0.3-0.5Mpa, with the high-speed movement of water flow in the spout and the mixing tube, a large amount of air is absorbed in the shortest time, and is cut into microbubbles in the mixing tube, which are then dissolved into water to a maximal extent, forming saturated dissolved air water. And a large amount of microbubbles with the diameter of 5-10  $\mu\text{m}$  are released by subsequent pressure relief, combined with the flocs in water, thus forming stable flocs with air, rising to the water surface and achieving the separation of the flocculates.

### 型号意义 Model Meaning



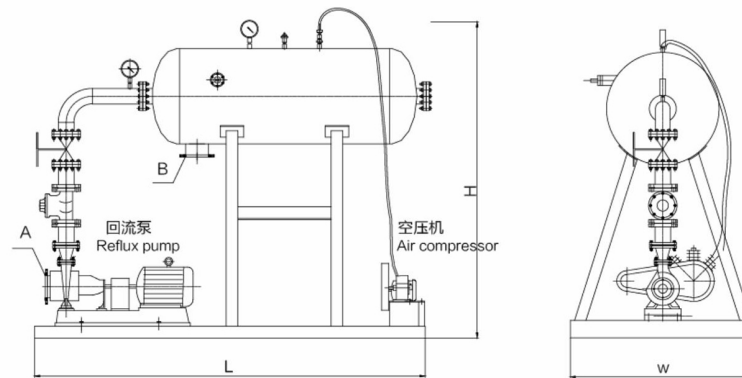
### 技术优势

- ▶ 结构简单，外形小巧。
- ▶ 效率高，效果稳定。
- ▶ 电控简单，安全可靠。自动化程度高，可远程控制也可就地操作。
- ▶ 攻克了各类常规溶气装置易堵的难题，真正实现了连续“无堵塞”运行。
- ▶ 本溶气系统可以根据不同的污水特性，气浮在不同的处理工艺中的位置，通过调整溶气水泵，射流器，释放器，使整个系统能够很好的和污水处理工艺，污水水质相匹配。能够发挥溶气系统的最大效率，可以极大地提高污水处理的效率。



### Technical advantages

- ▶ Simple structure and compact outline.
- ▶ High efficiency and stable effect.
- ▶ Simple electric control, safe and reliable High automatic level, capable of both remote control and local operation.
- ▶ It has overcome the difficulty for the blocking of conventional dissolved air devices, and truly realized continuous "block-free" operation.
- ▶ In this dissolved air system, dissolved air pump, ejector and releaser can be adjusted according to the wastewater characteristics and the position of air flotation in different treatment process, so that the whole system can match with the wastewater treatment process and sewage water quality very well. It can bring the maximum efficiency of the dissolved air system into full play, and can significantly improve the efficiency of wastewater treatment.



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### 型号规格及相关技术参数 Model specifications and related technical parameters

型号 Model	处理量 Capacity m³/h	溶气量 Dissolved air quantity m³/h	功率表 Power KW		规格尺寸 Dimension ( m )			管口表DN ( Nozzle list )	
			回流泵 Reflow pump	加气机 Exhaust	L	W	H	进水口 Inlet (A)	出水口 Outlet (B)
WFA-2	~2	~0.7	0.55	0.55	1	0.45	0.8	25	25
WFA-3	~3	~2	0.75	0.55	1.3	0.6	1.3	32	32
WFA-5	~5	~3	1.1	0.55	1.3	0.6	1.3	32	32
WFA-10	~10	~4	1.5/5.5	0.75	1.6	0.6	1.5	40	40
WFA-15	~15	~5	2.2/5.5	0.75	1.8	0.6	1.5	40	40
WFA-20	~20	~7	3.0/5.5	0.75	1.8	0.6	1.5	40	40
WFA-30	~30	~12	3.0/5.5	0.75	2	0.7	1.7	50	50
WFA-40	~40	~15	4.0/5.5	1.5	2.3	0.8	1.8	65	65
WFA-50	~50	~20	7.5	1.5	2.3	0.8	1.8	80	80
WFA-60	~60	~25	7.5	1.5	2.3	0.9	1.9	80	80
WFA-70	~70	~30	11	1.5	2.3	0.9	1.9	80	80
WFA-80	~80	~30	11	2.2	2.7	1	2	80	80
WFA-100	~100	~40	11	2.2	2.7	1.1	2	80	80
WFA-120	~120	~45	15	2.2	3	1.1	2.2	100	100
WFA-150	~150	~55	18.5	3	3	1.2	2.2	100	100
WFA-200	~200	~75	22	3	3	1.4	2.2	125	125
WFA-300	~300	~100	30	3	3.2	1.4	2.2	150	150
WFA-400	~400	~140	37	4	3.3	1.6	2.3	200	200
WFA-500	~500	~170	45	5.5	3.4	1.6	2.3	200	200
WFA-650	~650	~240	55	5.5	3.6	1.8	2.5	200	200