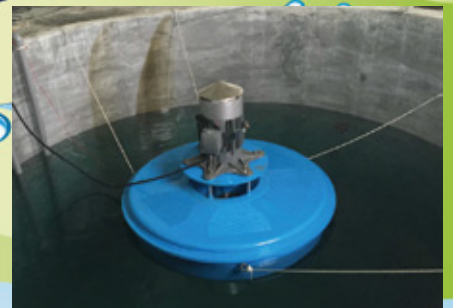




SAR

表面式曝氣機

HIGH SPEED FLOATING
SURFACE MECHANICAL AERATOR



綠色・安全・永續經營

川源股份有限公司
GSD INDUSTRIAL CO., LTD.

泵浦 曝氣系統 廢水處理機械

品質管理系統ISO 9001
TAF水泵實驗室認證合格廠

SAR HIGH SPEED FLOATING SURFACE MECHANICAL AERATOR

< 功能說明

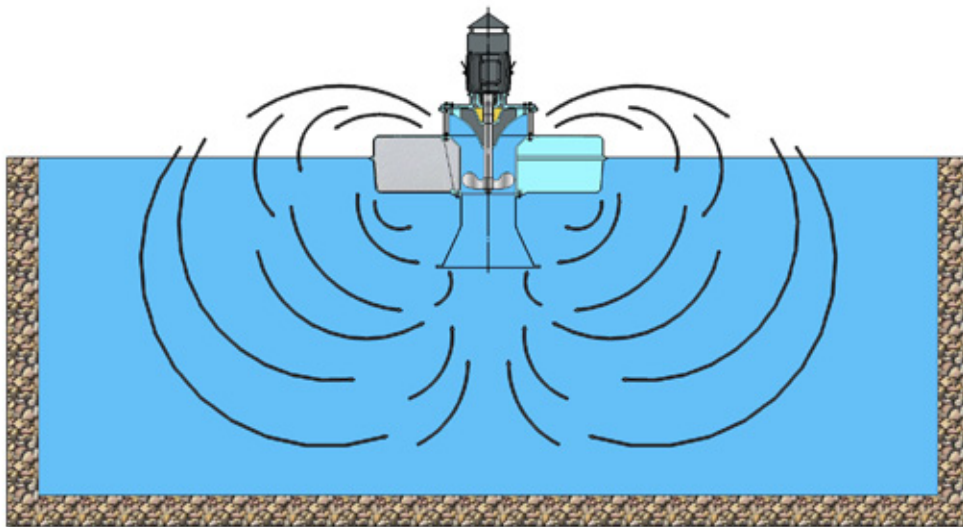
SAR表面式高速曝氣機是利用馬達直接帶動軸流式葉輪，將廢水由進水導管吸入經導流板向四周噴出形成傘狀水幕，液體於飛行途中和空氣接觸時會產生很大的界面面積達到氧傳輸之功能，前述水體以衝擊方式回到池子時，液面會產生亂流及大量的氣泡，亦會使水中含氧增加。

本設備自池底吸入液體向空中揚送後回到池中的過程，形成一迴圈水流，因此形成良好的攪拌效果，適用於各式生活污水及工業污水之氧化塘、曝氣溶氧、調勻攪拌等水處理單元。

< INTRODUCTIONS

The SAR high speed surface floating mechanical aerator is designed to maximize the two most important functions of any aeration device – oxygen transfer and mixing of wastewater. The wastewater is pumped through the unit in a manner which creates the

most advantageous spray pattern for introducing oxygen into the liquid. At the same time, this pumping action creates a tank velocity pattern which insures the mixing of contents and thus the oxygen dispersion.



< FEATURES

1. Allow rapid installation into both new and old plants.
2. Efficient oxygen transfer and mixing pattern.
3. Low maintenance, robust design.

< APPLICATIONS

The SAR high speed surface floating mechanical aerator is used in a variety of wastewater treatment application. Such as following :

1. Aeration tanks and lanes
2. SBRs
3. Balance tanks
4. Lagoons

< MAIN COMPONENTS

1. Motor and Shaft

The motors are weatherproof chemical service, TEFC (Totally Enclosed Fan Cooled). Equipped with stainless steel prolong shaft.

2. Impeller

The impeller is dynamically balanced and directly fixed to the stainless steel shaft.

3. Water guide panel

The water guide panel minimizes energy loss in water flow and forms the horizontal spray pattern required to achieve efficient aeration.

4. Floating

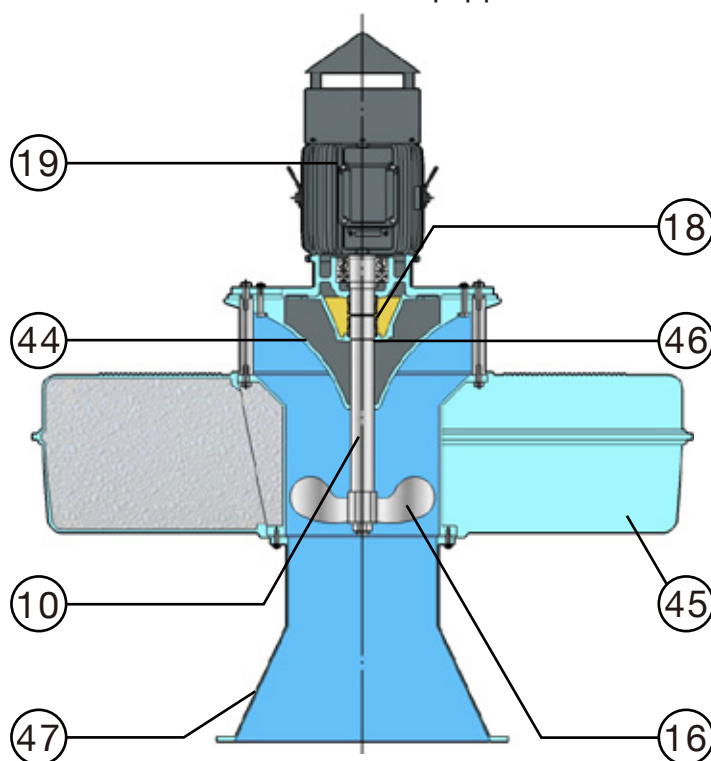
The floating is made in totally corrosion resistant material and the hull is completely filled with high density closed cell polyurethane foam ensure maximum stability under all operating conditions.

5. Mooring

The SAR aerator is designed to be anchored in 3 or 4 points. Proper mooring points are located on the floating.

6. Water inlet pipe

Sufficiently sturdy to support aerator and equipped with an anti-vortex device.



NO.	名稱DESCRIPTION	MATERIAL	NO.	名稱DESCRIPTION	MATERIAL
19	馬達Motor		18	機械軸封Mechanical Seal	
44	導水板Water Guide Panel	FRP	46	軸封蓋Seal Cover	FC200
10	主軸Shaft	SUS410	45	浮筒Floating	FRP
47	進水導管Water Inlet Pipe	FC200 / SUS304	16	葉輪Impeller	SCS13

< APPLICATION CHARACTERISTICS – 60HZ

60HZ	MOTOR		AERATOR			
TYPE	HP	RPM	OC-HR*	MD	MZ	Depth
SAR-61.5	2	1800	2.1	6	12	2
SAR-62.2	3	1800	3.2	9	18	2
SAR-63.7	5	1800	5.2	12	24	2-3
SAR-65.5	7.5	1800	7.6	15	30	2-3
SAR-67.5	10	1800	10.6	17	34	2-3
SAR-611	15	1800	15.2	19	38	2-3
SAR-615	20	1800	20.2	23	46	3-4
SAR-619	25	1800	26.2	25	50	3-4
SAR-622	30	1800	30.3	28	56	3-4
SAR-630	40	1800	41.4	32	64	3-4
SAR-630-A	40	1200	45.6	36	72	3-4
SAR-637-A	50	1200	56.2	38	76	3-4

OC-HR:

Kgs Oxygenation Capacity per Hour.

*With all aerators, the oxygen transfer efficiencies vary according to operating conditions.

MD:

Diameter of complete mixing in Meter.

MZ:

Diameter of complete oxygen dispersion in Meter.

Depth:

Nominal operating depth in Meter of complete mixing, related to MD.

< APPLICATION CHARACTERISTICS – 50HZ

50HZ	MOTOR		AERATOR			
TYPE	HP	RPM	OC-HR*	MD	MZ	Depth
SAR-51.5	2	1500	2.1	6	12	2
SAR-52.2	3	1500	3.2	9	18	2
SAR-53.7	5	1500	5.2	12	24	2-3
SAR-55.5	7.5	1500	7.6	15	30	2-3
SAR-57.5	10	1500	10.6	17	34	2-3
SAR-511	15	1500	15.2	19	38	2-3
SAR-515	20	1500	20.2	23	46	3-4
SAR-519	25	1500	26.2	25	50	3-4
SAR-522	30	1500	30.3	28	56	3-4
SAR-530	40	1500	41.4	32	64	3-4
SAR-519-A	25	1000	30.1	27	55	3-4
SAR-522-A	30	1000	34.8	31	62	3-4

OC-HR:

Kgs Oxygenation Capacity per Hour.

*With all aerators, the oxygen transfer efficiencies vary according to operating conditions.

MD:

Diameter of complete mixing in Meter.

MZ:

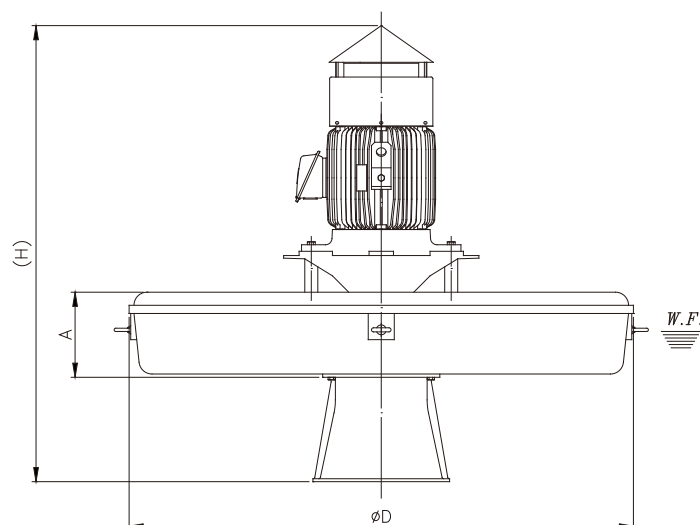
Diameter of complete oxygen dispersion in Meter.

Depth:

Nominal operating depth in Meter of complete mixing, related to MD.

SAR HIGH SPEED FLOATING SURFACE MECHANICAL AERATOR

< DIMENSIONS



Unit: mm

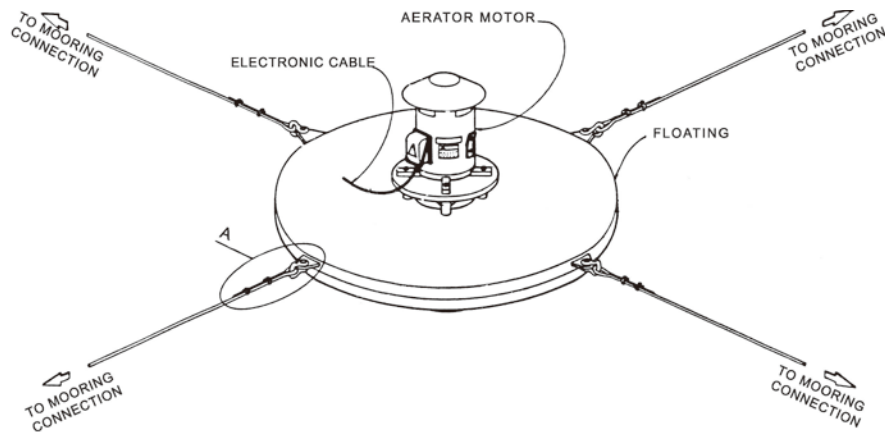
TYPE	Hz	HP	Pole	RPM	A	D	H
SAR-61.5	60	2	4	1800	130	1300	885
SAR-62.2	60	3	4	1800	130	1300	890
SAR-63.7	60	5	4	1800	130	1550	915
SAR-65.5	60	7.5	4	1800	250	1550	1160
SAR-67.5	60	10	4	1800	250	1550	1200
SAR-611	60	15	4	1800	260	1800	1465
SAR-615	60	20	4	1800	260	1800	1510
SAR-619	60	25	4	1800	260	1800	1640
SAR-622	60	30	4	1800	260	1800	1640
SAR-630	60	40	4	1800	360	1800	2060
SAR-630-A	60	40	6	1200	543	2270	2110
SAR-637-A	60	50	6	1200	543	2270	2145
SAR-51.5	50	2	4	1500	130	1300	885
SAR-52.2	50	3	4	1500	130	1300	890
SAR-53.7	50	5	4	1500	250	1550	1110
SAR-55.5	50	7.5	4	1500	250	1550	1160
SAR-57.5	50	10	4	1500	250	1550	1200
SAR-511	50	15	4	1500	260	1800	1465
SAR-515	50	20	4	1500	260	1800	1510
SAR-519	50	25	4	1500	260	1800	1640
SAR-522	50	30	4	1500	260	1800	1640
SAR-530	50	40	4	1500	360	1800	2060
SAR-519-A	50	25	6	1000	360	1800	2060
SAR-522-A	50	30	6	1000	360	1800	2060

< GALLERY

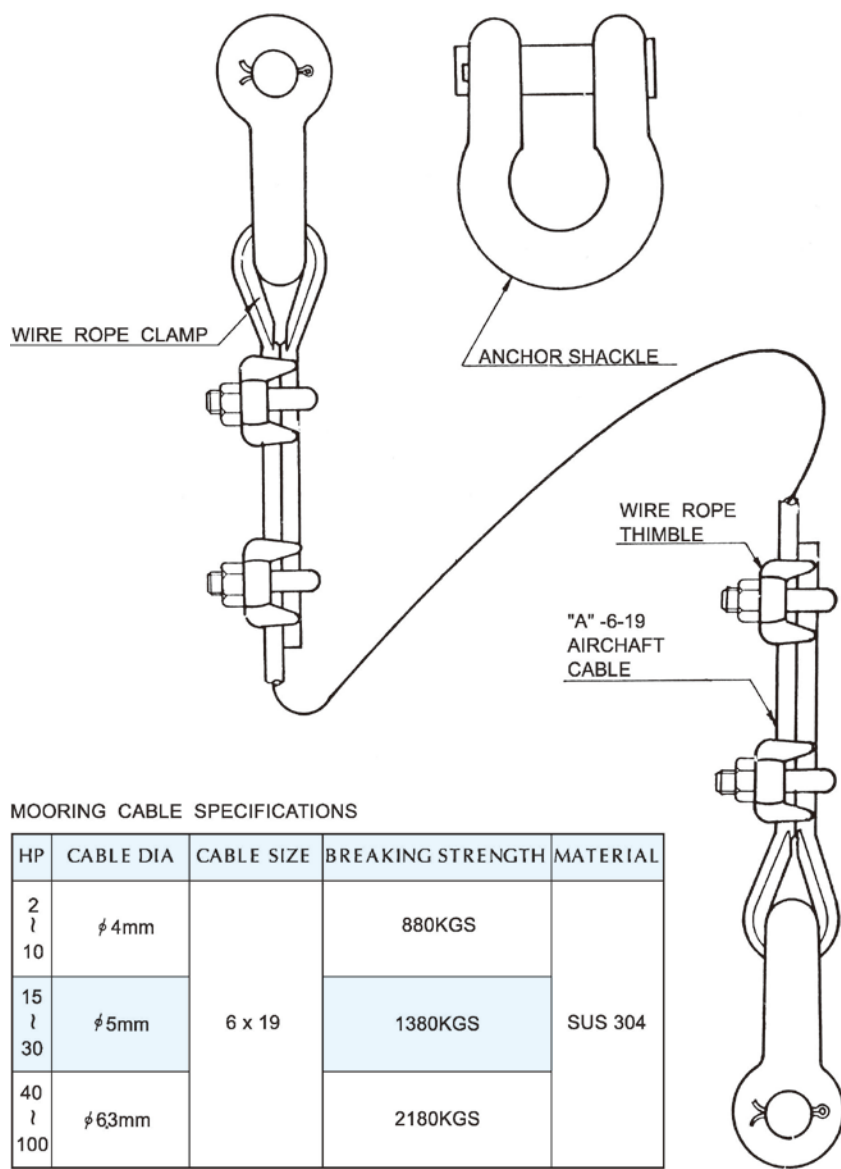


SAR HIGH SPEED FLOATING SURFACE MECHANICAL AERATOR

INSTALLATION'S MATHOD



MOORING ACCESSORIES



MOORING CABLE SPECIFICATIONS

HP	CABLE DIA	CABLE SIZE	BREAKING STRENGTH	MATERIAL
2 └ 10	φ 4mm	6 x 19	880KGS	SUS 304
15 └ 30	φ 5mm		1380KGS	
40 └ 100	φ 63mm		2180KGS	

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