



WIND MAXX

SUBMERSIBLE AERATOR PUMP

WSA-Series



Easy
Installation



APPLICATION

WASTEWATER

WasteWater
Treatment Plant



Wastewater
Treatment Tank



Product for Life

SUBMERSIBLE AERATOR PUMP

WSA - SERIES



Applications

- Aeration for industrial wastewater, excreta, sewage
- Aeration in lake, reservoir, fish farm
- Aeration in septic tank of A.P.T. building, industrial factory
- etc.

Features

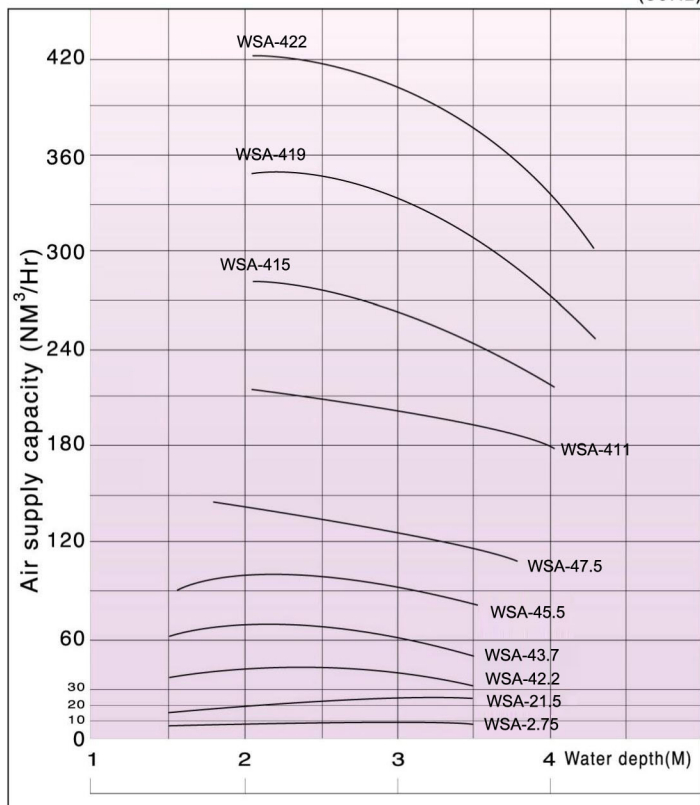
- Higher oxygen dissolution efficiency.
- Most powerful stirring and mixing ability for convectional circulation.
- Outlasting durable machine with a compact shape.

Selection charts 50 Hz

AIR EMISSION VOLUME-WATER DEPTH CURVE

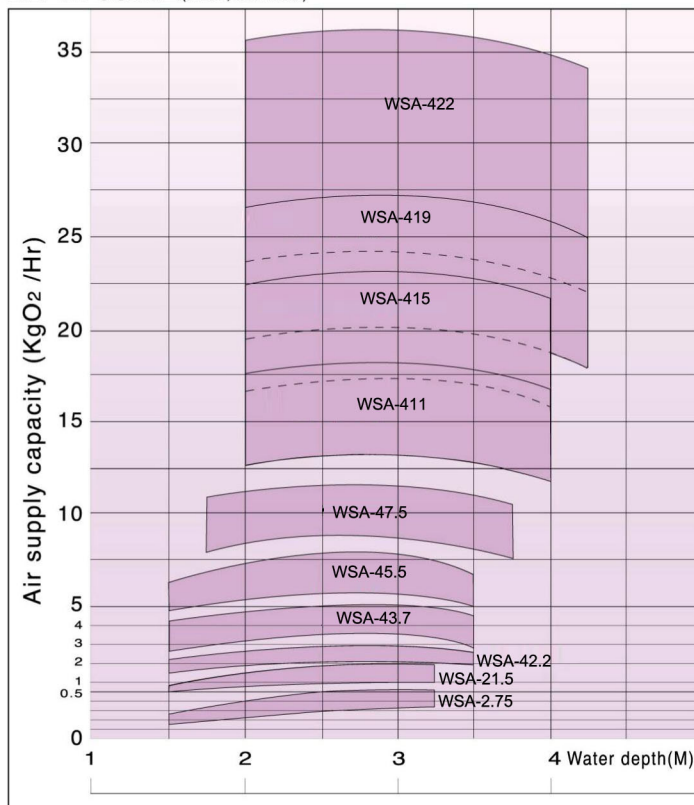
(The air emission value may vary:15%)

(50Hz)



OXYGEN DISSOLUTION VOLUME-WATER

DEPTH CURVE (at 20°C, Clear Water)



Description		Standard
Liquid	Kind	Clean or Waste Water
	Temperature	0 - 40°C
Material	Air Suction Casing	Cast Iron (FC)
	Impeller	Stainless steel (SUS 304)
	Shaft	Stainless steel (SUS 410)
	Air Suction Cover	Stainless steel (SUS 304)
Motor	Kind	Submersible Dry Motor (IP68)
	Type	50 Hz : 4 - Pole (1,500 min⁻¹)
	Insulation	Class F
	Starting	D.O.L. Start (0.75 - 7.5 KW), Star-Delta (11 - 22 KW)
Construction	Impeller	Semi - Open type
	Seal	Double Mechanical seal (Sic x Sic and Ceramics x Carbon)
	Sealed Oil	Turbine Oil ISO VG32
	Bearing	Sealed Ball Bearing
Power supply		3 Phase/380v/50Hz
Connecting Method		Flange Coupling/Hose Coupling/Automatic Discharge Connector

SUBMERSIBLE AERATOR PUMP

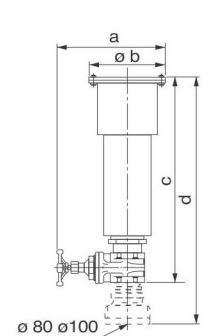
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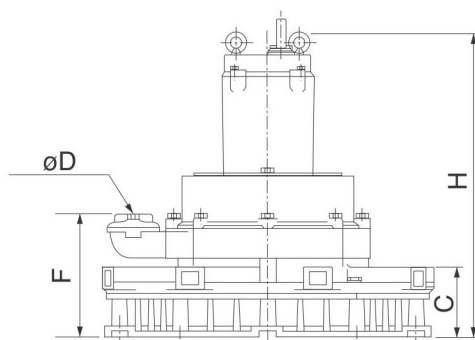
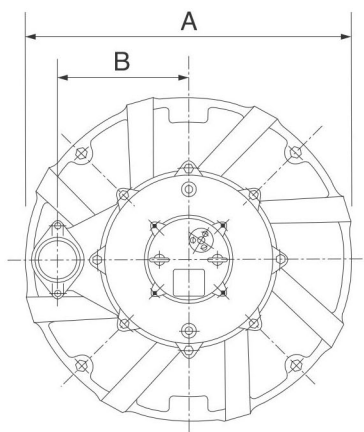
Selection-table 50 Hz

Suction (mm)	Model	Output (KW)	Revolution (rpm)	No.of Outlet	Water depth (m)	Air supply capacity (N m ³ /Hr)	Oxygen supply capacity (KgO ₂ /Hr)	Weight (Kg)
32	WSA-2.75	0.75	1500	6	3	11	0.35 - 0.6	75
	WSA-21.5	1.5	1500	6		25	1.0 - 1.4	85
50	WSA-42.2	2.2	1500	8		36	1.8 - 2.8	190
	WSA-43.7	3.7	1500	8		60	3.5 - 5.0	210
80	WSA-45.5	5.5	1500	8		90	5.5 - 7.7	245
	WSA-47.5	7.5	1500	8		125	8.2 - 11.3	260
	WSA-411	11	1500	8		200	13.0 - 18.0	311
100	WSA-415	15	1500	8		260	17.0 - 23.0	325
	WSA-419	19	1500	8		330	20.0 - 27.0	600
	WSA-422	22	1500	8		400	24.0 - 36.0	650

Dimensions



Silencer & Valve Set



Bore	a	øb	c	d
ø32	120	150	330	360
ø50	150	185	420	470
ø80	240	183	440	497
ø100	270	190	490	570

(Unit : mm)

øD	Model	A	B	C	F	H	Motor (KW)	Cabtyre Cables 380V		Length m
								Cores x(mm ²)	Diameter mm	
32	WSA-2.75	530	225	105	180	575	0.75	4 x 1.25	13.2	6
	WSA-21.5	530	225	105	180	585	1.5	4 x 1.25	13.2	
50	WSA-42.2	705	270	165	275	695	2.2	4 x 2.0	14.5	
	WSA-43.7	705	270	165	275	715	3.7	4 x 3.5	15.4	
	WSA-45.5	705	270	165	275	808	5.5	4 x 5.5	17.5	8
80	WSA-47.5	705	270	184	293	834	7.5	4 x 5.5	17.5	
	WSA-411	705	270	184	293	937	11	7 x 5.5	27	6
	WSA-415	705	270	184	293	937	15	7 x 5.5	27	
100	WSA-419	1000	385	256	370	1158	19	7 x 8.0	32	8
	WSA-422	1000	385	256	370	1158	22	7 x 8.0	32	

Specification can change without notice.

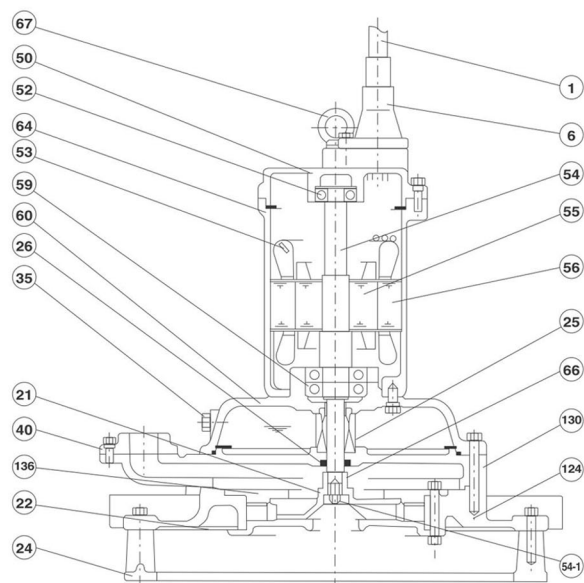
Cables material : Chloroprene Sheath, over 11kw. motor are star-delta start.

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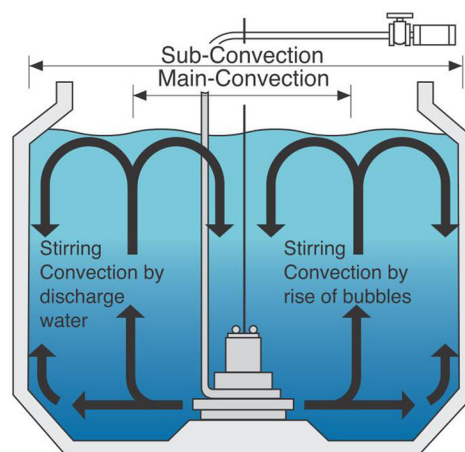
Sectional views



No.	Part name	Material	Q'TY
1	Power Cable	-	m
6	Cable Entrance	Cast Iron	1
21	Impeller	Stainless Steel 304	1
22	Suction Cover	Stainless Steel 304	1
24	Stand	Cast Iron	1
25	Mechanical Seal	-	1
26	Oil Seal	Rubber (NBR)	1
40	Screwed Flange	Cast Iron	1
35	Oil Plug	304 Stainless	1
50	Motor Bracker	Cast Iron	1
52	Ball Bearing	-	1
53	Motor Protector	-	3
54	Shaft	Stainless	1
54-1	Bolt	304 Stainless	1
55	Rotor	-	1
56	Stator	-	1

Convection pattern

Model	Main-Convection (m.)	Sub-Convection (m.)	Max. Depth (mAq)
WSA-2.75	1.2	2.0	3.2
WSA-21.5	1.5	2.5	3.2
WSA-42.2	2.5	5.0	3.6
WSA-43.7	3.0	6.0	3.6
WSA-45.5	3.5	7.0	3.6
WSA-47.5	4.5	9.0	4.1
WSA-411	5.0	10.0	4.7
WSA-415	5.5	11.0	4.7
WSA-419	6.0	12.0	5.0
WSA-422	6.0	12.0	5.0



Main-Convection...direct oxidation by bubbles.
Sub-Convection...indirect oxidation by convective stirring.