



JTX JTX Submersible jet aerator





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Features

High efficiency oxygen dissolving

It has unique design for gas mixture chamber whose intake air quantity is big. Air can be mixed well with water, and it can produce minute and plenty of air bubble with high air dissolving rate.

Intensive mixing

The pressure produced by impeller through jet hole produces forceful water flow, which realizes jet after mixed with air to make oxygen move efficiently in water and at the same time achieve good mixing effect, which can maintain the flow rate necessary for activated sludge floating.

Quiet and noise-free

The machine unit is designed to run in water with low winding number and low noise: overland air-intake duct can be additionally equipped with silencing equipment. Cost can be reduced since no other anechoic room is required.

Easy for installation and maintenance

There are two types for your selection: equipped with or without automatic attach device. Easy for installation and maintenance, saving operation cost.

Wide range of service

It is widely used in industrial wastewater treatment, effluent treatment of livestock husbandry and general foul sewer aeration engineering, aeration tank of effluent facilities of factory applied with activated sludge method. It can be used either individually or in a combined way.

Constructive specification

This submersible jet aerator adopts specially designed aeration pump, which forms the integral unit with air bubble generating section and automatic attach device.

Special aeration pump

Special aeration pump uses high-performance impeller, which does not block fouls. Therefore, it has long service life.

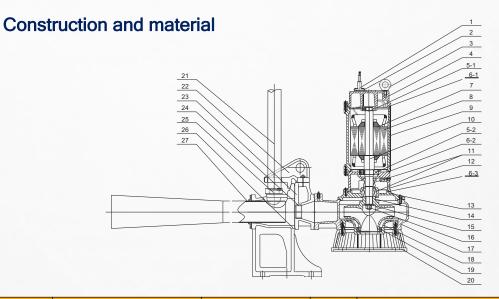
Air bubble generating section

This section is composed of air-inlet duct, nozzle holder, gas mixture chamber and divergent pipe. Water is pumped into gas mixture chamber at high speed from nozzle holder connected to pump outlet. Air is inducted into gas mixture chamber through air-inlet duct and is mixed with water flow, then exhausted through divergent pipe.

Automatic attach device

This equipment is composed of induction duct, directing plate, the attach- unit. During maintenance of equipment, the pump can be directly pulled out from water through induction duct along with the attach device.



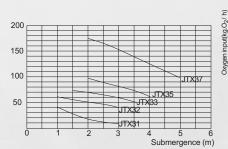


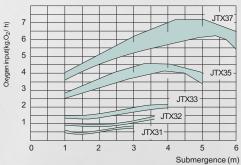
NO	News	Mat	erial	NIC	Nama	Material		
NO.	Name	GB	JIS	NO.	Name	GB	JIS	
1	Watertight cable			15	Locked spacer	0Cr19Ni9	SUS304	
2	Sealing equipment of cable	0Cr19Ni9	SUS304	16	Impeller nut	0Cr19Ni9	SUS304	
3	Flying ring			17	Pump casing	HT200	FC200	
4	Motor cover	HT200	FC200	18	Bottom cover	HT200	FC200	
5	Bearing			19	Sealing ring			
6	O-ring			20	Strainer	HT200	FC200	
7	Rotor			21	Air intake pipe			
8	Stator			22	Directing plate	HT200	FC200	
9	Motor casing	HT200	FC200	23	Nozzle holder	HT200	FC200	
10	Shaft	2Cr13	SUS420J1	24	Nozzle sleeve	0Cr19Ni9	SUS304	
11	Mechanical seal			25	Shoe-shaped flange	HT200	FC200	
12	Bracket	HT200	FC200	26	Attach device	HT200	FC200	
13	Oil tank cap	HT200	FC200	27	Divergent pipe	0Cr19Ni9	SUS304	
14	Impeller	HT200	FC200					

Performance curves



High-performance impeller, without blocking fouls





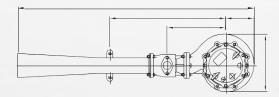


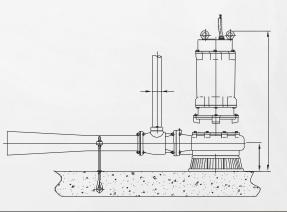


Туре	Power			Air capacity-water	Oxygen transfer	Bas	in dimens	ions	Workable water
	hp	kW	Pole	depth m3/h-m	capacity kg.O2 /h	L(m)	W(m)	H(m)	depth (m)
JTX-31-50	1	0.75	4	16-2	0.35-0.45	3	2	4	1-3
JTX-32-80	2	1.5	4	40-3	1.0-1.2	4	3.5	4	1-3
JTX-33-80	3	2.2	4	60-3	1.75-1.95	5	5	4.5	1.5-3.5
JTX-35-100	5.5	4	4	80-3	3.5-3.95	6	6	5	2-4
JTX-37-100	7.5	5.5	4	155-3	5.3-5.9	7	7	6	2-5

Specifications

Dimensions (without autosetter)



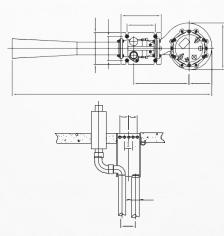


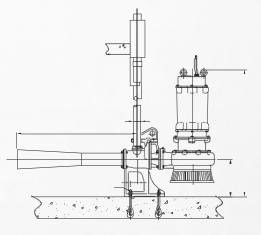
Туре	А	в	с	D	E	F	G	d	Weight (kg)
JTX-31-50	1099	597	246	135	270	129	556	DN32	55
JTX-32-80	1343	642	319	153	308	145	669	DN40	81
JTX-33-80	1343	719	319	153	308	145	669	DN40	103
JTX-35-100	1526	770	379	182	376	182	749	DN50	141
JTX-37-100	1526	831	379	182	376	182	749	DN50	182





Dimensions (with autosetter)



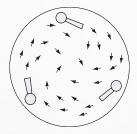


_	Dimensions(mm)																	
Туре	A	в	с	D	Е	F	G	н	Т	J	к	L	м	Ν	Q	d	d1	Weight (kg)
JTX-31-50	1099	718	266	135	270	250	698	34.5	100	70	180	140	155	220	M12	DN32	DN32	71
JTX-32-80	1384	777	360	153	308	280	871	47	70	90	220	170	190	260	M16	DN40	DN40	121
JTX-33-80	1384	854	360	153	308	280	871	47	70	90	220	170	190	260	M16	DN40	DN40	143
JTX-35-100	1586	888	439	182	376	300	965	53.5	70	110	250	190	225	320	M16	DN50	DN50	201
JTX-37-100	1586	949	439	182	376	300	965	53.5	70	110	250	190	225	320	M16	DN50	DN50	242

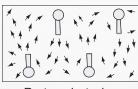




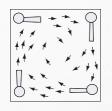
Reference diagram of configuration



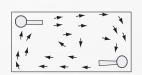
Round tank



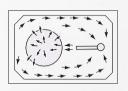
Rectangular tank (Length:Width=2:1)

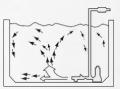


Square tank

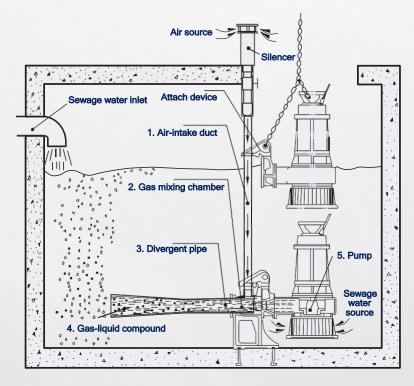


Rectangular tank (Length:Width=5:1)





System flowchart



1. Air-intake duct

Air is taken into gas mixture chamber through airintake duct due to the pressure difference between negative pressure in gas mixture chamber caused by high-velocity jet and atmospheric pressure.

2. Gas mixing chamber

After being drawn into gas mixing chamber, air is compressed into plenty of air bubbles, which are mingled in water flow forming gas-liquid compound under the action of hydraulic pressure.

3. Divergent pipe

When gas-liquid compound is discharged outwards through divergent pipe, its flow rate will slow down and pressure will rise along with the depth of water so that it can be compressed and ejected efficiently.

4. Gas-liquid compound

Oxygen dissolving efficiency increases due to that there are large quantity of minute air bubbles in water; which means the contact area between air and water is large.

5. Pump

This pump adopts special unblocking type impeller for aeration.





For further details, please fulfill the chart below.

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		Undertaker								
Name of project		Address of p	Address of project							
Telephone		Fax								
	Elevation (m)		Max relative h	umidity						
Local condition	Local atmospheric pressure (MPa)		Max air tempe (°C)	erature						
	Wastewater type		Treatment pro	cess						
	Aeration time (H/day)		Waste water d volume (m3/d)	aily						
		Aerating tank	Inlet	Aerat	ing tank effluent					
	COD (mg/l)									
Water condition	BOD (mg/l)									
	NH3-N (mg/l)			2						
	рН									
	Temperature (°C)									
	Others									
	Use location	Regulating reservoir	Aeratic] on tank	Others					
JTX's parameters	Air capacity (m3/min)		Dissolved ((kgO2/h)	oxygen						
	Water depth (m)		Others							
		Length								
	Rectangle or square (m)	Width								
		Height								
Tank's dimensions		Diameter								
	Circle (m)	Height								
	Others									
Other requirements										

Notes: 1. Please fill in the parameter lists as complete as possible. 2. The item with "*" must be filled.



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