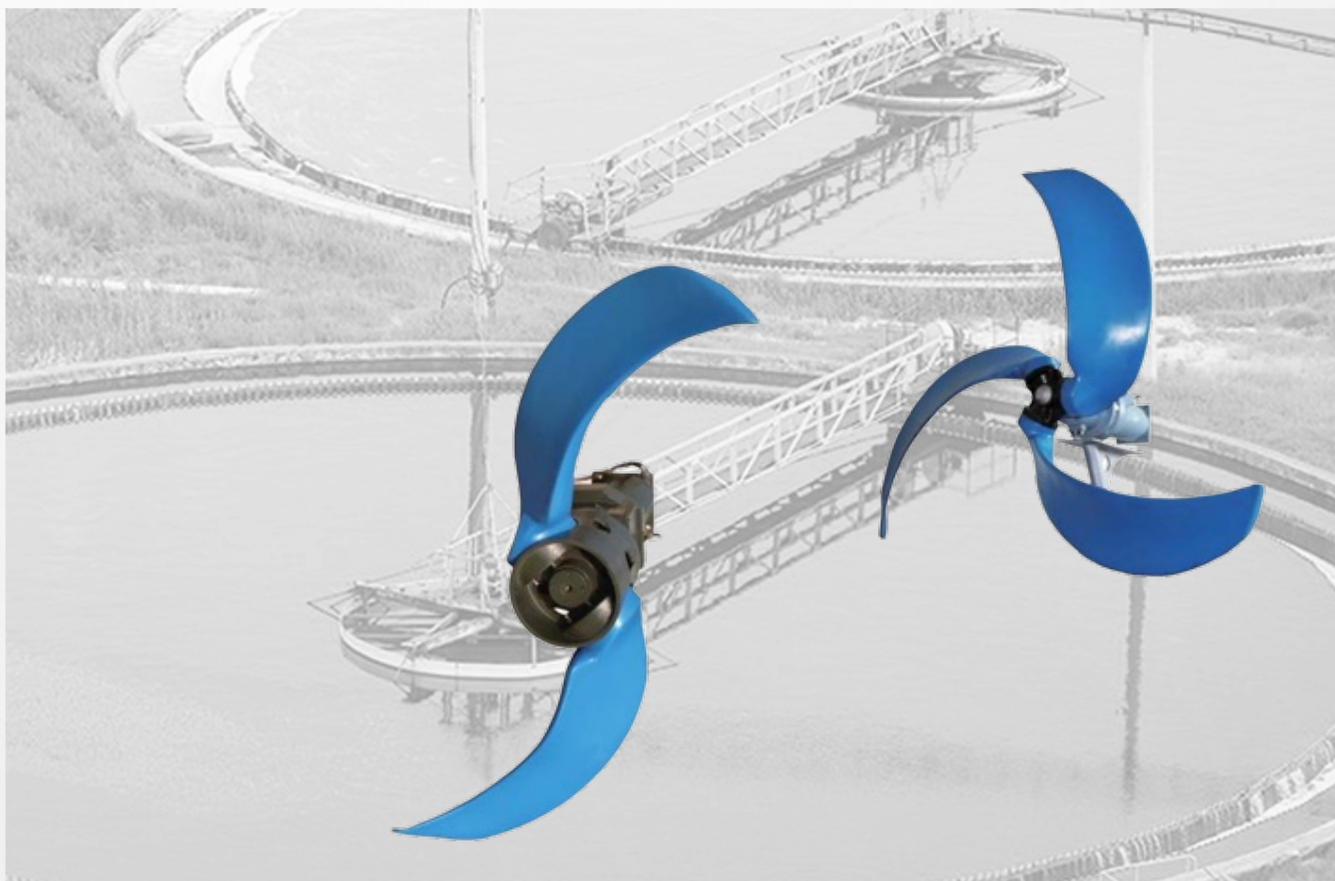




LFPX

low-speed flow propeller

LFPX

LFPX low-speed flow propeller



Application

Low-speed flow propeller extensively used for the oxidizing flow propelling and agitation in various types of biochemical tanks during the water treatment process, also can be used for river frost protection and, landscape water circulation etc..

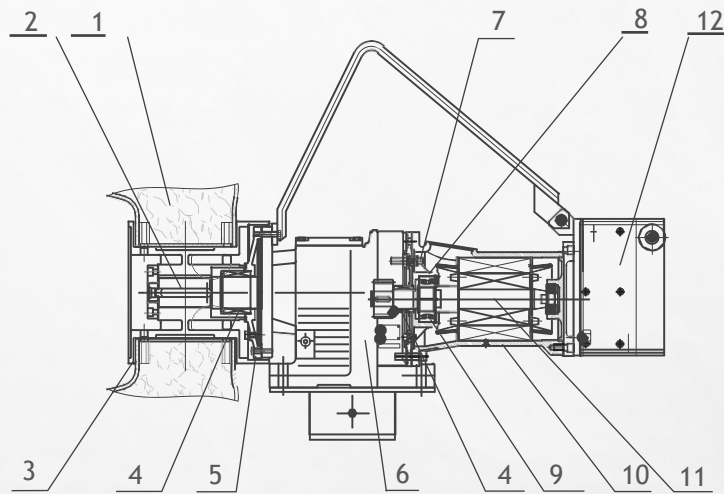
Features

- The international well-known high-quality bearings have longer service life, which are maintenance free.
- The unique sealing design for the cables removes the hidden danger of water leakage for the cables.
- The shaft of the motor employs the stainless steel, and the rotors are inspected with the use of dynamic balancing, leading to smooth rotation.
- The in-built leakage sensor and the alarming device for the over-temperature protection for the windings of the stator.
- The vanes of the low-speed flow propeller are made of FRP, which are sweptback shape, have the selfcleaning function, the smooth and streamlined propeller surface distributes the propelling power equally.
- On the low-speed flow propeller, all the tightening pieces which will contact media employ the stainless-steel material; The decelerator employs helical gear speed reducer with high safety coefficient.

Conditions of usage

- The highest temperature of the media shall not exceed 40°C
- The pH value of the media: 5~9
- The density of the media shall not exceed 1150kg/m3 The depth of submersion shall not exceed 20m
- The electric power supply: 380V, 50Hz
- The motor: F/H class insulation and in accordance with IP68, continuous operating in 24hr

Construction

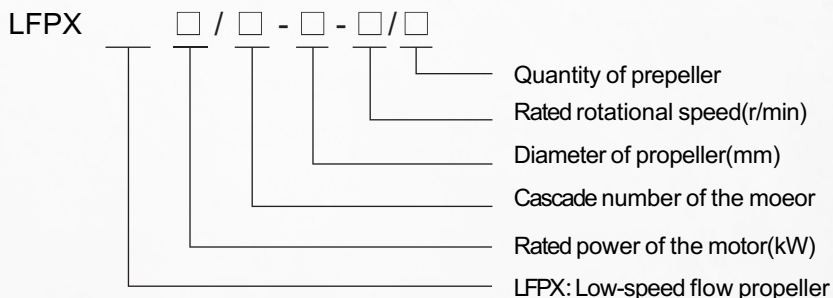


NO.	Name	Material	
		GB	JIS
1	Propeller	梯樞	FRP
2	Output shaft	2Cr13	SUS420J1
3	Wheel boss	HT200	FC200
4	Mechanical seal	SiC-SiC	SiC-SiC
5	Mechanical seal stand	HT200	FC200
6	Decelerator	HT200	FC200
7	Leakage sensor	-	-
8	Bearing stand	HT200	FC200
9	Bearing	-	-
10	Sheath	HT200	FC200
11	Motor shaft	2Cr13	SUS420J1
12	Slide sleeve	HT200	FC200

The table above is standard material for LFPX

type. If other material needed, pls contact us. The structure will be different according to the power.

Type description



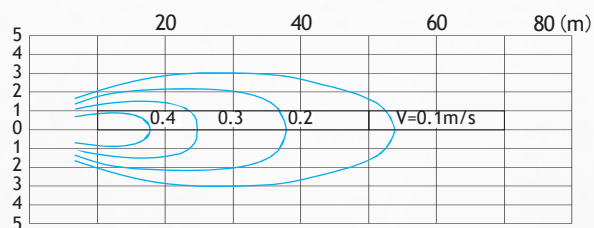
Performance parameters

Pump model	Motor power (kW)	Rated current (A)	rpm of propeller (r/min)	Diameter of propeller (mm)	Thrust (N)	Weight (kg)
LFPX2.2/4-1100-52/2	2.2	4.9	52	1100	1100	172
LFPX3/4-1100-63/2	3	6.6	63	1100	1500	175
LFPX4/4-1100-85/2	4	8.6	85	1100	1840	177
LFPX2.2/4-1400-34/2	2.2	4.9	34	1400	1430	180
LFPX3/4-1400-43/2	3	6.6	43	1400	1870	183
LFPX4/4-1400-52/2	4	8.6	52	1400	2150	186
LFPX5.5/4-1400-63/2	5.5	11.3	63	1400	2740	189
LFPX3/4-1800-34/2	3	6.6	34	1800	2040	210
LFPX4/4-1800-43/2	4	8.6	43	1800	2710	212
LFPX5.5/4-1800-47/2	5.5	11.3	47	1800	3320	291
LFPX7.5/4-1800-52/2	7.5	15.5	63	1800	4010	294
LFPX3/4-2100-34/2	3	6.6	34	2100	2150	215
LFPX4/4-2100-43/2	4	8.6	43	2100	2600	220
LFPX5.5/4-2100-47/2	5.5	11.3	47	2100	3350	300
LFPX7.5/4-2100-52/2	7.5	15.5	52	2100	3900	305
LFPX3/4-2500-34/2	3	6.6	34	2500	2500	220
LFPX4/4-2500-43/2	4	9.3	43	2500	3200	223
LFPX5.5/4-2500-47/2	5.5	12	47	2500	3840	310
LFPX7.5/4-2500-52/2	7.5	15.5	52	2500	4280	315
LFPX3/4-1800-34/3	3	6.6	34	1800	2040	220
LFPX5.5/4-1800-43/3	5.5	12	43	1800	3320	306
LFPX7.5/4-1800-47/3	7.5	15.5	47	1800	4010	312
LFPX4/4-2100-39/3	4	8.6	39	2100	2550	245
LFPX5.5/4-2100-43/3	5.5	11.3	43	2100	3320	295
LFPX7.5/4-2100-47/3	7.5	15.5	47	2100	4030	300
LFPX5.5/4-2500-43/3	5.5	12	43	2500	3840	327
LFPX7.5/4-2500-43/3	7.5	15.5	43	2500	4280	330

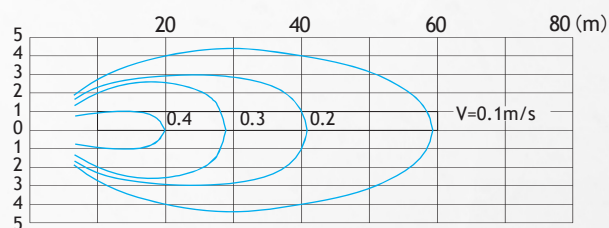
Notes : 1.Winding insulation class of the motor :Class F; Protective grade; IP68; Operating mode: Operation for 24 hours.

2.We can supply the motor with class H winding insulation.

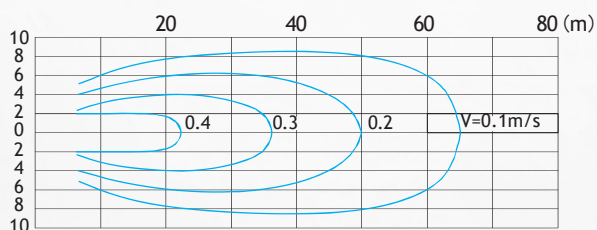
Diagrams of the flow field



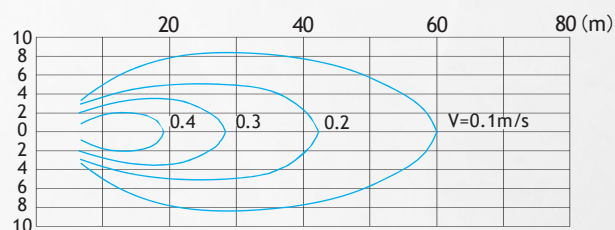
LFPX2.2/4-1100-52



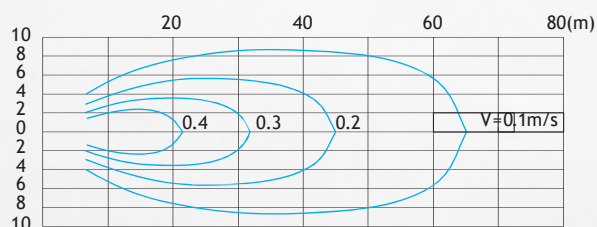
LFPX3/4-1100-63



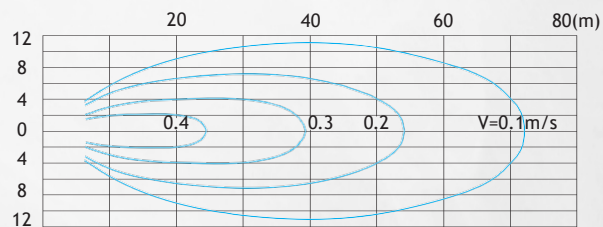
LFPX4/4-1100-85



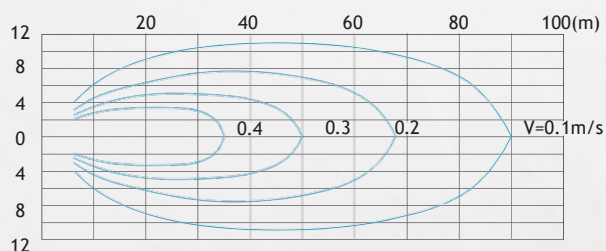
LFPX2.2/4-1400-34



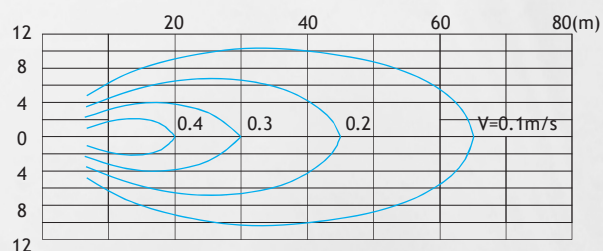
LFPX3/4-1400-43



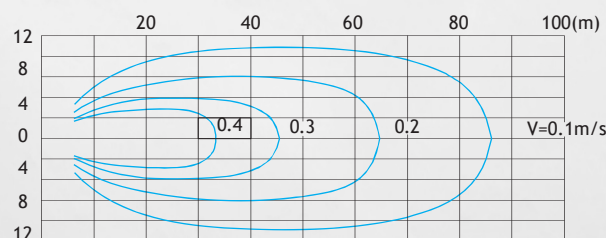
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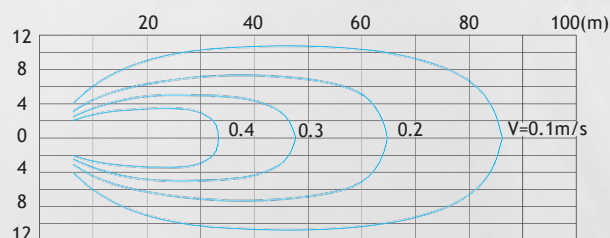
LFPX5.5/4-1400-63



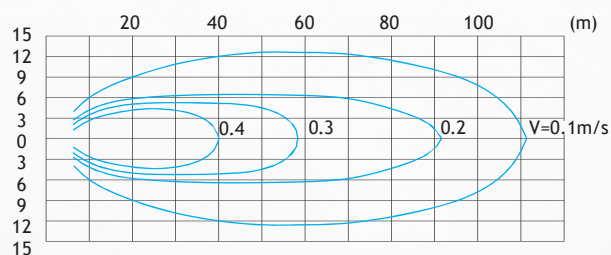
LFPX3/4-1800-34



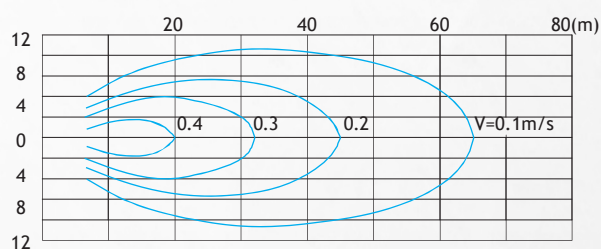
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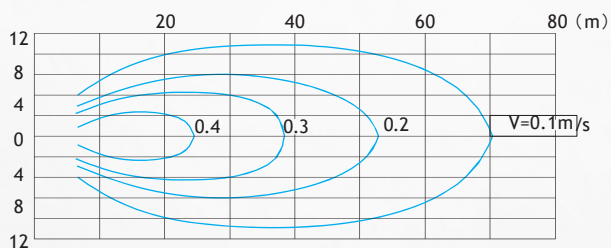
LFPX5.5/4-1800-47



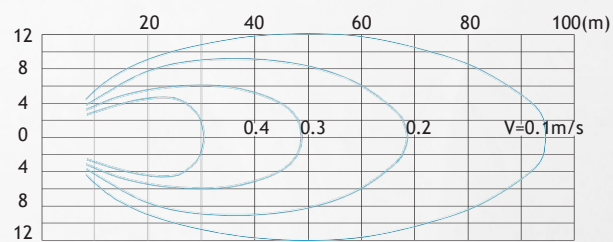
LFPX7.5/4-1800-52



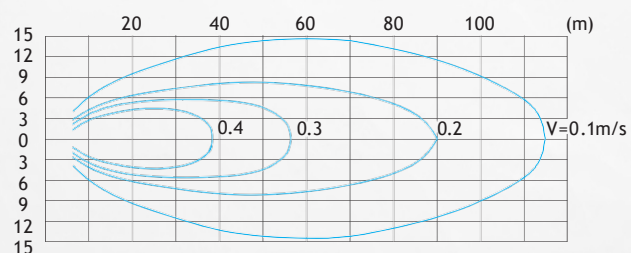
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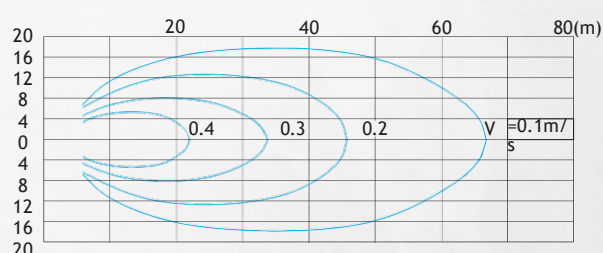
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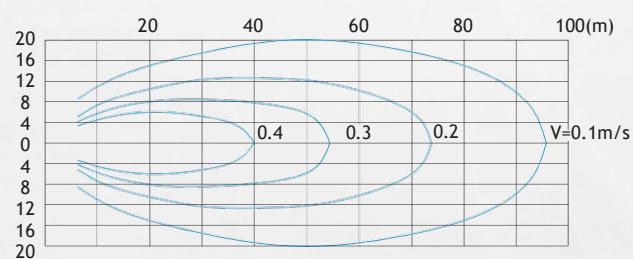
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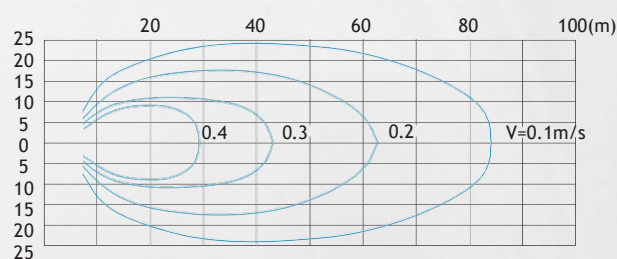
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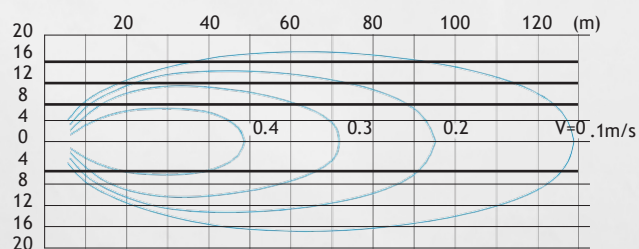
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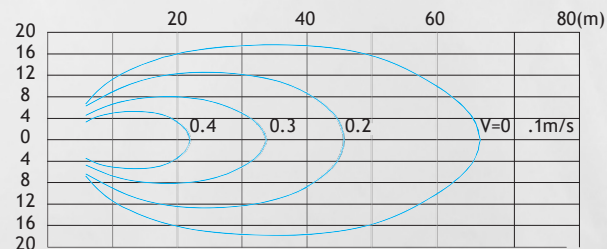
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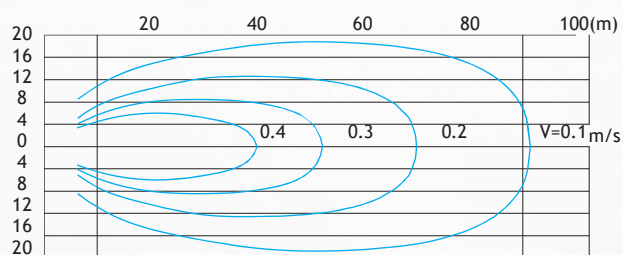
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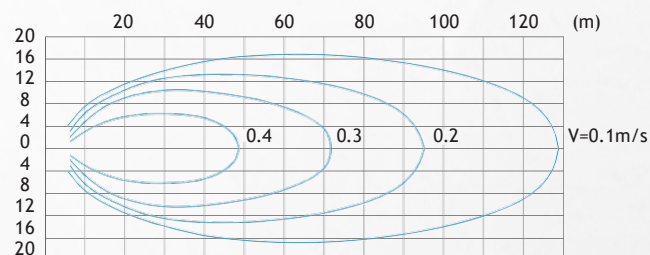
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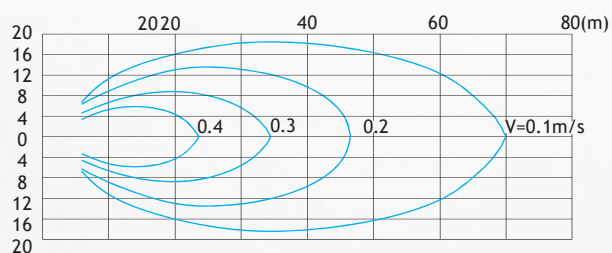
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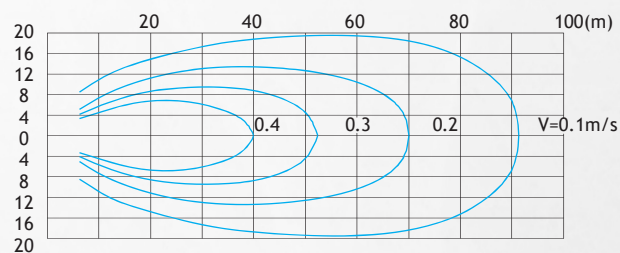
LFPX5.5/4-1800-43/3



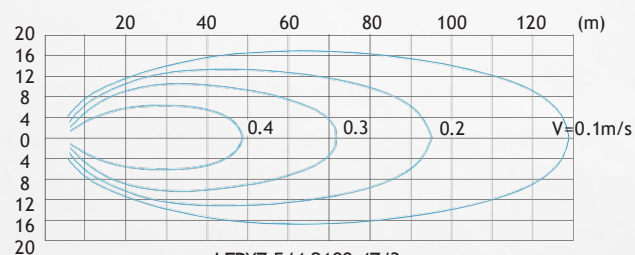
LFPX7.5/4-1800-47/3



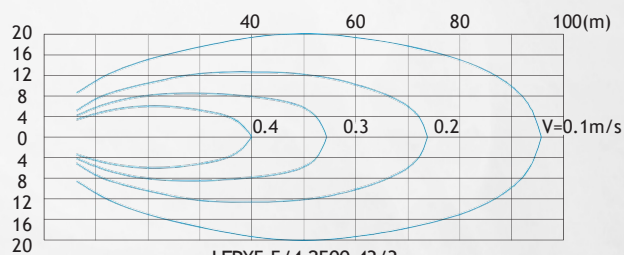
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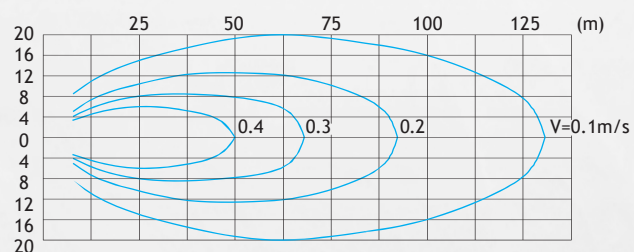
LFPX5.5/4-2100-43/3



LFPX7.5/4-2100-47/3



LFPX5.5/4-2500-43/3



LFPX7.5/4-2500-43/3

Installation modes and dimensions

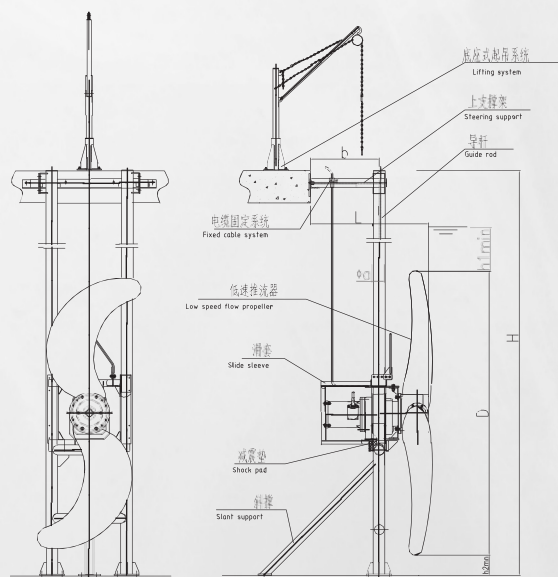
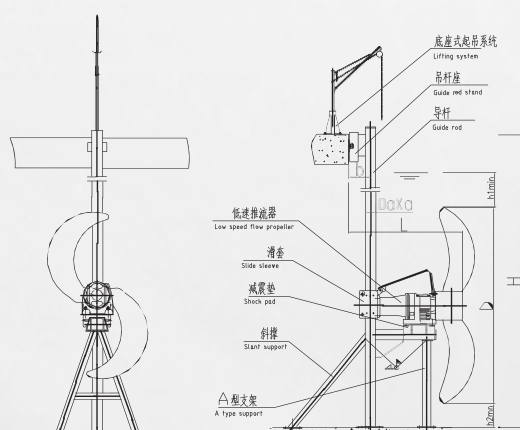
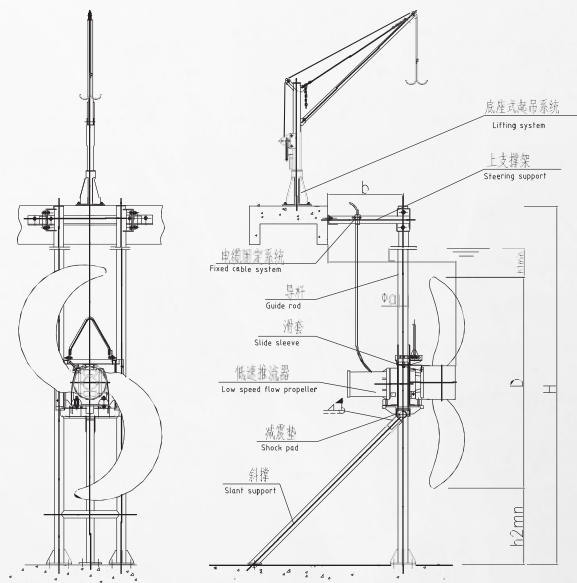
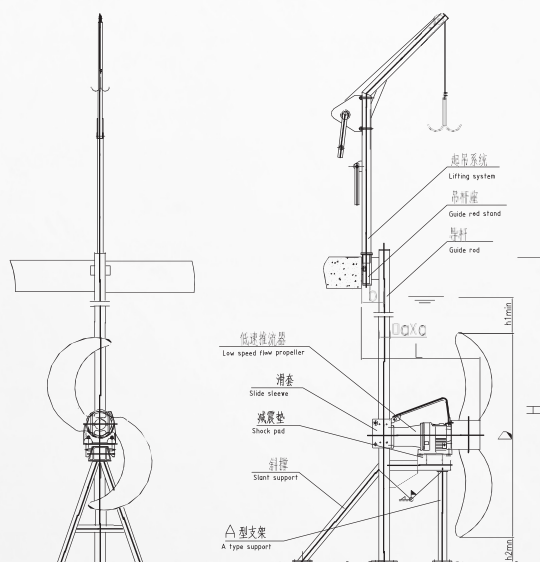
The submersible mixers can be installed in a multiple of modes. Here are generally accepted modes of installation for selection with reference made to the following table. Our company can also provide the special designs in accordance with the demand of the users.

Type	a	D	b	L	H1min	H2min	Installation system
LFPX2.2/4-1100-52/2	□100	Φ1100	210	1100	1000	270	IV
LFPX3/4-1100-63/2	□100	Φ1100	210	1100	1000	270	IV
LFPX4/4-1100-85/2	□100	Φ1100	210	1150	1000	270	IV
LFPX2.2/4-1400-34/2	□100	Φ1400	210	1100	800	125	IV
LFPX3/4-1400-43/2	□100	Φ1400	210	1100	800	125	IV
LFPX4/4-1400-52/2	□100	Φ1400	210	1150	800	125	IV
LFPX5.5/4-1400-63/2	□100	Φ1400	210	1150	800	125	IV
LFPX3/4-1800-34/2	□100/Φ89	Φ1800	210/600	1100/1050	800	125	IV/V
LFPX4/4-1800-43/2	□100/Φ89	Φ1800	210/600	1150/1050	800	125	IV/V
LFPX5.5/4-1800-47/2	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/ VII
LFPX7.5/4-1800-63/2	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/ VII
LFPX3/4-2100-34/2	□100/Φ89	Φ2100	210/600	1100/1050	900	125	IV/V
LFPX4/4-2100-43/2	□100/Φ89	Φ2100	210/600	1150/1050	900	125	IV/V
LFPX5.5/4-2100-47/2	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/ VII
LFPX7.5/4-2100-52/2	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/ VII
LFPX3/4-2500-34/2	□100/Φ89	Φ2500	210/600	1100/1050	1000	125	IV/V
LFPX4/4-2500-43/2	□100/Φ89	Φ2500	210/600	1150/1050	1000	125	IV/V
LFPX5.5/4-2500-47/2	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/ VII
LFPX7.5/4-2500-52/2	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII
LFPX3/4-1800-34/3	□100/Φ89	Φ1800	210/600	1100/1050	800	125	IV/V
LFPX5.5/4-1800-43/3	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFPX7.5/4-1800-47/3	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFPX4/4-2100-39/3	□100/Φ89	Φ2100	210/600	1150/1050	900	125	IV/V
LFPX5.5/4-2100-43/3	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFPX7.5/4-2100-47/3	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFPX5.5/4-2500-43/3	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII
LFPX7.5/4-2500-43/3	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII

Notes :

- The supporting frame and the lower support shall be fixed onto the pond wall and the pond bottom with the use of expansion bolts or chemical anchors. For the big diameter impellers and the big power mixers the best choice is to pre-embed.
- While placing an order by customer. Please supply the pond depth H and the drawing of the pond shape so as to determine the dimensions of the guide rod and the number of the supporting frames.
- A multiple of mixers with the same installation system can share one lifting system.
- The installation systems may employ the material of stainless steel or carbon steel for the selection of the corrosion-resisting properties.

Installation dimensions

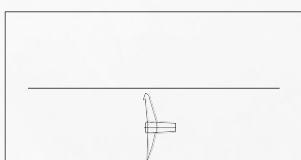


Arranging sketch map

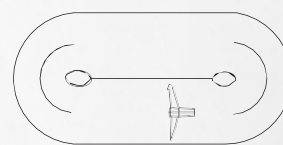
The installation and positioning of the submersible mixers will produce a great impact on the effect of mixing. In order to obtain the perfect operating result, it is suggested that the advice of the specialized designers shall be followed and full consideration given to the shape of the pond, position of the water inlet and outlet, the vortex resulting from the outflow from the mixer onto the structures and some other conditions. Every effort shall be made to reduce the short-circuit circulation and the occurrence of dead corners and avoid the dashing of the flow against the pond wall for lowering the flow velocity. Making reference to the arranging sketch map below will help you to make a reasonable selection of the mixers and their installation modes.



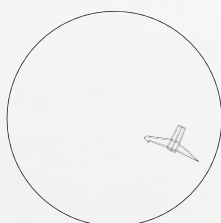
Square pond



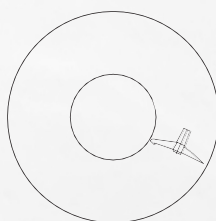
Rectangular pond



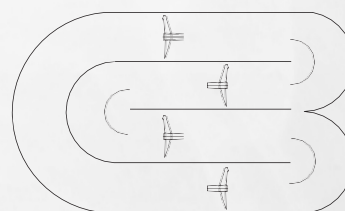
Track-shaped pond



Circular pond



Ring-shaped pond



S-shaped pond

WASTEX

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