

Traction self-priming  
pump station

## 6 Product Features



Highly mobile

Strong self-priming ability

Multi-function feature

High efficiency and  
energy saving

Widely applicable

Adaptable



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JINCHAO  
锦超

Portable permanent magnet  
synchronous flood control and drainage pump

CE、ISO9001、ISO14001、ISO45001



ZHEJIANG JINCHAO SPECIAL EQUIPMENT CO.,LTD.



## COMPANY PROFILE



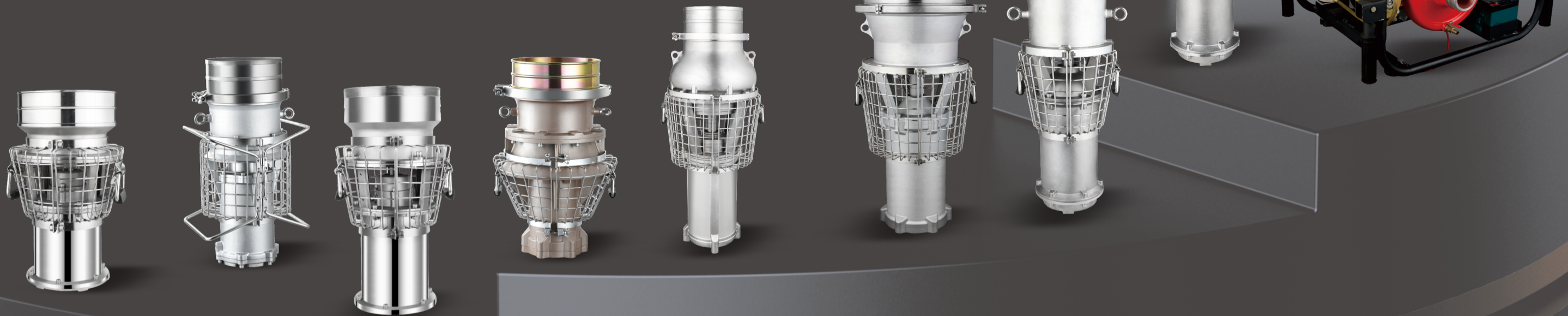
Zhejiang Jinchao Special Equipment Co., Ltd. is a professional pump manufacturer integrating research, design, production, sales, and service of water pumps. With strong technical expertise and robust design and production capabilities, the company primarily produces permanent magnet synchronous flood control pumps, hydraulic pumps, sewage pumps and so on. Our products sell well around the world, cover such as construction, agricultural irrigation, flood control and drought relief, environmental protection, mining, metallurgy, petroleum, chemical, pharmaceutical, and food processing etc.

We have more than 20 years' experience in pump production. Our company adheres to the philosophy of "Quality as the Root, Service as the Foundation." Relying on technological advancement, introducing advanced technologies and talents, improving equipment and methods, the company strives for excellence. We are committed to contributing to the sustainable development of the economy and promises to provide customers with top-tier products and comprehensive services.

CE、ISO9001、ISO14001、ISO45001  
System certification

Energy Saving  
And Efficient

Multiple  
Protection



ZHEJIANG JINCHAO SPECIAL EQUIPMENT CO.,LTD.

Global leader in permanent magnet  
synchronous flood control pump





# COMPANY QUALIFICATION





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ZHEJIANG JINCHAO SPECIAL EQUIPMENT CO.,LTD.

JINCHAO 锦超

## 5 Product Features

### High-Efficiency Impeller

Professional design of Non-Clogging Impeller  
Equipped with high efficiency and energy conservation  
Optimized Flow Design with High Passability

### Synchronous Motor

The motor adopts high-efficiency synchronous technology with a speed range of 3000-3600 rpm. This motor not only boasts high efficiency, a simple structure, and reliable operation, but also features a compact size, lightweight design, and low energy loss. It delivers exceptional performance that traditional motors cannot match.

### Standard configuration

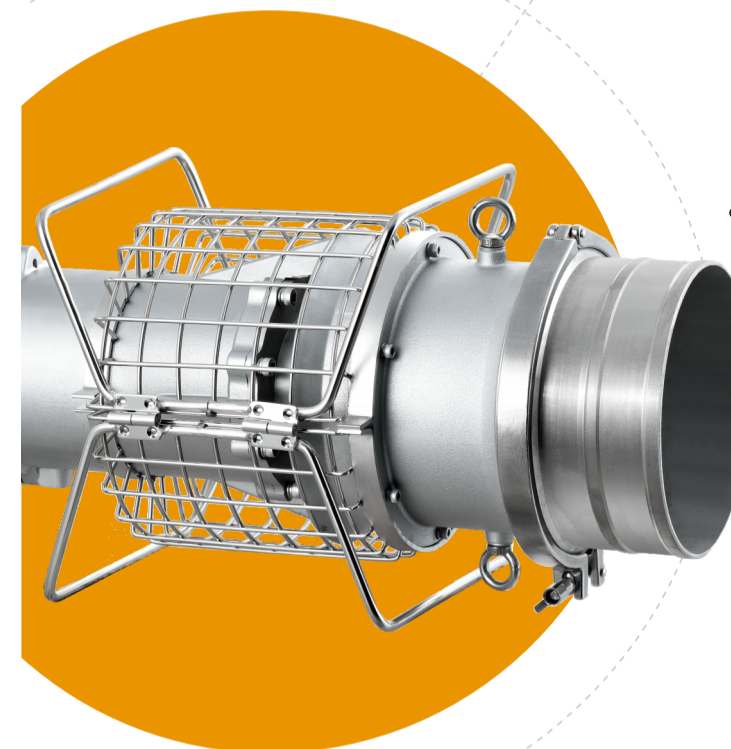
1 flood control and emergency pump  
1 distribution cabinet  
1 Set of Quick-Connect Couplings, 20m cable

### Variable frequency control

The control system adopts frequency conversion control, and the speed can be adjusted. Real time monitoring of pump operating parameters. The control cabinet has automatic protection functions for faults such as overload, short circuit, undervoltage frequency, and overtemperature. The power cord of the water pump is connected to the control cabinet through an aviation socket plug and play connection, which is convenient and fast eliminating the tedious on-site wiring. The cabinet protection level is Ip55.

### express setup

The hose quick connector adopts a clamp type structure with good sealing performance easy installation of water hoses light weight, and low water resistance Good winding performance, anti-aging and long service life





JL series  
Portable permanent magnet  
Synchronous flood control pump

Portable flood control pump



large flow



High lift




Craft meticulously

PRODUCT OVERVIEW


Portable permanent magnet synchronous flood control pump, with a compact structure, small volume, light weight, high efficiency, and easy portability. The pump does not require the construction of infrastructure and can work directly underwater or suspended on the surface with the help of a floating ring, and can be transported by one person. The water pump is lightweight, easy to carry by a single person, has good corrosion resistance and airtightness, can withstand greater load forces, and is wear-resistant and durable.

This electric pump is mainly used in flood prevention and rescue, drought prevention irrigation and drainage, mine rescue, emergency drainage and rescue, temporary water accumulation in municipal engineering, emergency water diversion of rivers and reservoirs, fire emergency drainage, emergency pumping and drainage, and other fields.

XJL-A

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB400-8-15	400	8	15	200	22-25	300x260x430 300x260x450
	JCZQB400-10-18.5	400	10	18.5	200	22-25	
	JCZQB500-8-18.5	500	8	18.5	200	22-25	
	JCZQB500-10-22	500	10	22	200	22-25	
	JCZQB600-8-22	600	8	22	200	22-25	
	JCZQB500-12-30	500	12	30	200	22-25	

DJL-B

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB700-10-30	700	10	30	250	28-35	360×360×460
	JCZQB650-11-33	650	11	33	250	28-35	
	JCZQB800-10-37	800	10	37	250	28-35	

Dual-purpose pump  
Portable permanent magnet  
Synchronous flood control pump



large flow




High lift




Craft meticulously


DP6-8

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)		
	JCZQB150-30-22	150	30	22	150/200	23-26	300x260x450 300x260x480		
	<b>Exchange</b> JCZQB500-10-22	500	10						
	JCZQB500-10-22	500	10		200				
	<b>Exchange</b> JCZQB200-25-22	200	25						

DP8-8

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB150-37-22 <b>Exchange</b>	150	30	22	200/150	38	300x260x600
	JCZQB500-10-22	500	10				
	JCZQB600-10-30 <b>Exchange</b>	600	10	30	200	38	
	JCZQB150-39-30	200	25				
	JCZQB600/500/400-11/15/16-37 <b>Exchange</b>	600/500/400	11/15/16	37	200	38	
	JCZQB300/200/150-30/40/50-37	300/200/150	30/40/50				

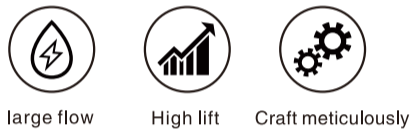
DP12-8

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB1000-10-45	1000	10	45	300	75-90	400×350×690/780/900
	<b>Exchange</b> JCZQB400-25-45	400	25	45	200	75-90	
	JCZQB1200-10-55	1200	10	55	300	75-90	
	<b>Exchange</b> JCZQB400-30-55	400	30	55	200	75-90	
	JCZQB500-38-75	500	38	75	200	75-90	
	<b>Exchange</b> JCZQB1000-15-75	1000	15	75	300	75-90	



High-lift and high-flow dual-purpose pump  
Portable permanent magnet synchronous flood control pump

Portable flood control pump



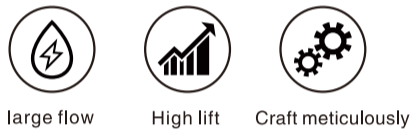
PRODUCT OVERVIEW

Portable permanent magnet synchronous flood control pump, with a compact structure, small volume, light weight, high efficiency, and easy portability. The pump does not require the construction of infrastructure and can work directly underwater or suspended on the surface with the help of a floating ring, and can be transported by one person. The water pump is lightweight, easy to carry by a single person, has good corrosion resistance and airtightness, can withstand greater load forces, and is wear-resistant and durable.

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High-lift and high-flow dual-purpose pump  
Portable permanent magnet synchronous flood control pump

Portable flood control pump




PRODUCT OVERVIEW


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YGB SERIES

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB300-10-11	300	10	11	200	30-40	280×250×600
	JCZQB400-8-15	400	8	15	200	30-40	
	JCZQB400-10-18.5	400	10	18.5	200	30-40	
	JCZQB500-8-18.5	500	8	18.5	200	30-40	
	JCZQB500-10-22	500	10	22	200	30-40	
	JCZQB600-8-22	600	8	22	200	30-40	
	JCZQB400-15-30	400	15	30	200	30-40	
	JCZQB500-12-30	500	12	30	200	30-40	
	JCZQB600-10-30	600	10	30	200	30-40	
	JCZQB500-15-37	500	15	37	200	30-40	


YHB SERIES

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB150-30-22	150	30	22	150	35-39	280×250×640
	JCZQB170-20-22	170	20	22	150	35-39	
	JCZQB150-37-25	150	37	25	150	35-39	
	JCZQB100-50-30	100	50	30	150	35-39	
	JCZQB120-40-30	120	40	30	150	35-39	

HPB SERIES

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB200-20-18.5	200	20	18.5	200	38-42	280×250×660
	JCZQB250-20-22	250	20	22	200	38-42	
	JCZQB200-25-22	200	25	22	200	38-42	
	JCZQB150-30-22	150	30	22	200	38-42	
	JCZQB150-37-25	150	37	25	200	38-42	
	JCZQB300-20-30	300	20	30	200	38-42	
	JCZQB300-30-37	300	30	37	200	38-42	
	JCZQB200-40-37	200	40	37	200	38-42	
	JCZQB150-50-37	150	50	37	200	38-42	

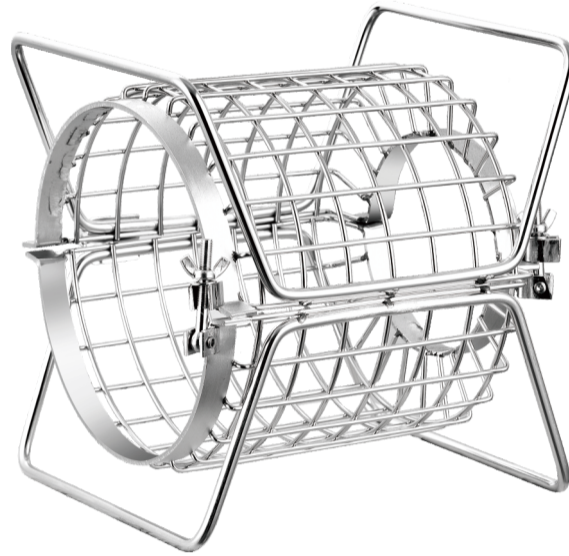
JL-S SERIES

	Model	Flow (m³/h)	Head (m)	Power (kW)	Outlet (mm)	Weight (kg)	Size (mm)
	JCZQB400-8-15	400	8	15	200	30	300x260x440
	JCZQB400-10-18.5	400	10	18.5	200	30	
	JCZQB500-8-18.5	500	8	18.5	200	30	
	JCZQB500-10-22	500	10	22	200	30	
	JCZQB600-8-22	600	8	22	200	30	
	JCZQB500-11-25	500	11	25	200	30	
	JCZQB400-13-25	400	13	25	200	30	
	JCZQB500-12-30	500	12	30	200	30	



## Product details accessories

Product components are the basis of product quality



Quick snaps



Hose butt



impeller



Floating ring (round):  
800X350X350mm  
weight 12.5 kg,  
buoyancy 120 kg



Floating ring (square):  
600X600X260mm  
weight 8 kg  
buoyancy 53 kg



Ip67 aviation plug



Ip67 cable docking

## Fire pontoon pumps

### PRODUCT OVERVIEW

The pump has compact structure, small size, high head, excellent medium and high pressure performance, and reliable operation. It is mainly used for fire extinguishing in forests, towns and industrial enterprises, and can also be used for urban drainage, with the characteristics of long-term continuous operation and rapid cold start, and is an indispensable ideal equipment for emergency fire brigades and full-time fire brigades of industrial enterprises. Air filter: double-layer nano filter. Fuel filter: 75 micron built-in fuel filter; The oil pump is equipped with a strainer.

### PRODUCT FEATURES

Small size, light starting, series and parallel combination, a variety of starting methods, 90 degrees can rotate the water, rotary vane type oil-free all-copper vacuum pump, large flow, medium head, safety protection function

### TECHNICAL PARAMETER

1. Water pump type: single-suction single-stage impeller centrifugal pump;
2. Fuel type: No. 92 and above gasoline;
3. Start mode: hand, electric, remote control start;
4. Ignition method: transistor electronic ignition
5. Fuel consumption: <3.5L; 6. Maximum output: >15ps(11kW); The speed is 3600 rpm
7. Minimum water absorption depth: ≤6cm;
8. An anti-corrosion filter screen is set at the suction inlet of the pump, and the overflow area of the filter screen does not affect the performance of the pump, and the filter hole can only pass through the particles of ≤8mm;
9. Outlet diameter: ≥2.5" (65mm (inner buckle type); ),
10. Suction port diameter: ≥3" (80mm)
11. Outlet pressure: ≥0.7MPa;
12. Rated pressure: ≥0.4MPa;
13. Noise: 90dB (A) when measuring distance 7m<;
14. Maximum flow: ≥1500L/min;
15. Maximum head: ≥73m;
16. Engine type: single-cylinder, four-stroke, air-cooled gasoline engine;

### JC-FTB-1500-70






# WQ


## Submersible electric pump for sewage and sewage




High flow



High head



Powerful power



Stable and reliable



### Product overview

This electric pump is composed of three parts: water pump, seal and motor, and the motor is located in the upper part of the electric pump, which is a three-phase asynchronous motor. The oil chamber adopts a double-end mechanical seal, the contact surface between the oil chamber and the impeller adopts a single-end mechanical seal, and each fixed mouth seal adopts a "0" type oil-resistant rubber sealing ring for static sealing.

### Service conditions

The electric pump should be able to operate continuously and normally under the following conditions:

1. The medium temperature should not exceed +40°C
2. The pH value of the medium is between 4 and 10
3. The density of the medium should not exceed 1200 kg/m³
4. The power supply frequency is 50 Hz, and the voltage fluctuation range is 0.9 to 1.1 times the rated value
5. The immersion depth should not exceed 5

### Main purpose

This series of electric pumps has a wide range of applications, and is widely used in the discharge of sewage and sewage in municipal sewage treatment, construction engineering, industry, farmland drainage and irrigation, garden irrigation, water tower water delivery, urban construction water and other places. this an ideal equipment for pumping mud, domestic wastewater, sewage feces and urine containing staple fibers, paper scraps, sediment and other solid particles, as well as rural drainage and Irrigation, and river and pond dredging.

NO.	Model	Flow (m³/h)	Head (m)	Power (kW)	Size (mm)	Speed (r/min)
1	WQ10-10-0.75	10	10	0.75	50	2900/2P
2	WQ10-15-1.1	10	15	1.1	50	2900/2P
3	WQ15-7-1.1	15	7	1.1	65	2900/2P
4	WQ15-15-1.5	15	15	1.5	50	2900/2P
5	WQ25-10-1.5	25	10	1.5	65	2900/2P
6	WQ40-7-1.5	40	7	1.5	80	2900/2P
7	WQ15-22-2.2	15	22	2.2	50	2900/2P
8	WQ20-18-2.2	20	18	2.2	65	2900/2P
9	WQ40-10-2.2	40	10	2.2	80	2900/2P
10	WQ15-30-3	15	30	3	50	2900/2P
11	WQ25-25-3	25	25	3	65	2900/2P
12	WQ40-15-3	40	15	3	80	2900/2P
13	WQ20-40-4	20	40	4	50	2900/2P
14	WQ40-25-4	40	25	4	65	2900/2P
15	WQ50-15-4	50	15	4	80	2900/2P
16	WQ60-12-4	60	12	4	100	2900/2P
17	WQ20-45-5.5	20	45	5.5	50	2900/2P
18	WQ40-35-5.5	40	35	5.5	65	2900/2P
19	WQ30-30-5.5	30	30	5.5	80	2900/2P
20	WQ65-18-5.5	65	18	5.5	100	2900/2P
21	WQ20-50-7.5	20	50	7.5	50	2900/2P
22	WQ30-40-7.5	30	40	7.5	65	2900/2P
23	WQ50-30-7.5	50	30	7.5	80	2900/2P
24	WQ80-25-7.5	80	25	7.5	100	2900/2P
25	WQ100-12-7.5	100	12	7.5	150	2900/2P
26	WQ20-55-11	20	55	11	50	2900/2P
27	WQ30-40-11	30	40	11	65	2900/2P
28	WQ60-30-11	60	30	11	80	2900/2P
29	WQ80-25-11	80	25	11	100	2900/2P
30	WQ100-20-11	100	20	11	150	2900/2P
31	WQ120-15-11	120	15	11	150	2900/2P
32	WQ180-11-11	180	11	11	200	2900/2P
33	WQ20-70-15	20	70	15	50	2900/2P
34	WQ30-60-15	30	60	15	65	2900/2P
35	WQ60-40-15	60	40	15	80	2900/2P
36	WQ80-35-15	80	35	15	100	2900/2P
37	WQ100-30-15	100	30	15	150	2900/2P



NO.	Model	Flow (m³/h)	Head (m)	Power (kW)	Size (mm)	Speed (r/min)
38	WQ120-25-15	120	25	15	150	2900/2P
39	WQ180-15-15	180	15	15	200	2900/2P
40	WQ20-80-18.5	20	80	18.5	50	2900/2P
41	WQ30-68-18.5	30	68	18.5	65	2900/2P
42	WQ60-45-18.5	60	45	18.5	80	2900/2P
43	WQ80-40-18.5	80	40	18.5	100	2900/2P
44	WQ100-36-18.5	100	36	18.5	150	2900/2P
45	WQ180-18-18.5	180	18	18.5	200	2900/2P
46	WQ20-90-22	20	90	22	50	2900/2P
47	WQ30-75-22	30	75	22	65	2900/2P
48	WQ60-50-22	60	50	22	80	2900/2P
49	WQ80-45-22	80	45	22	100	2900/2P
50	WQ100-40-22	100	40	22	150	2900/2P
51	WQ200-20-22	200	20	22	200	2900/2P
52	WQ80-13-5.5	80	13	5.5	80	1450/4P
53	WQ110-10-5.5	110	10	5.5	100	1450/4P
54	WQ150-7-5.5	150	7	5.5	150	1450/4P
55	WQ80-20-7.5	80	20	7.5	80	1450/4P
56	WQ100-15-7.5	100	15	7.5	100	1450/4P
57	WQ145-9-7.5	145	9	7.5	150	1450/4P
58	WQ250-6-7.5	250	6	7.5	200	1450/4P
59	WQ100-25-11	100	25	11	100	1450/4P
60	WQ180-11-11	180	11	11	150	1450/4P
61	WQ300-7-11	300	7	11	200	1450/4P
62	WQ400-5-11	400	5	11	250	1450/4P
63	WQ100-30-15	100	30	15	100	1450/4P
64	WQ200-15-15	200	15	15	150	1450/4P
65	WQ250-11-15	250	11	15	200	1450/4P
66	WQ500-5-15	500	5	15	250	1450/4P
67	WQ100-35-18.5	100	35	18.5	100	1450/4P
68	WQ180-20-18.5	180	20	18.5	150	1450/4P
69	WQ250-15-18.5	250	15	18.5	200	1450/4P
70	WQ500-7-18.5	500	7	18.5	250	1450/4P
71	WQ650-5-18.5	650	5	18.5	300	1450/4P
72	WQ100-40-22	100	40	22	100	1450/4P
73	WQ200-22-22	200	22	22	150	1450/4P
74	WQ300-16-22	300	16	22	200	1450/4P

NO.	Model	Flow (m³/h)	Head (m)	Power (kW)	Size (mm)	Speed (r/min)
75	WQ500-9-22	500	9	22	250	1450/4P
76	WQ650-7-22	650	7	22	300	1450/4P
77	WQ120-45-30	120	45	30	100	1450/4P
78	WQ180-30-30	180	30	30	150	1450/4P
79	WQ250-22-30	250	22	30	200	1450/4P
80	WQ600-9-30	600	9	30	250	1450/4P
81	WQ800-7-30	800	7	30	300	1450/4P
82	WQ1500-4-30	1500	4	30	350	980/6P
83	WQ120-50-37	120	50	37	100	1450/4P
84	WQ200-30-37	200	30	37	150	1450/4P
85	WQ350-25-37	350	25	37	200	1450/4P
86	WQ600-12-37	600	12	37	250	1450/4P
87	WQ800-9-37	800	9	37	300	1450/4P
88	WQ1000-6-37	1000	6	37	350	1450/4P
89	WQ1100-6-37	1100	6	37	350	980/6P
90	WQ1300-6-37	1300	6	37	400	980/6P
91	WQ100-57-45	100	57	45	100	1450/4P
92	WQ200-35-45	200	35	45	150	1450/4P
93	WQ400-25-45	400	25	45	200	1450/4P
94	WQ600-15-45	600	15	45	250	1450/4P
95	WQ800-12-45	800	12	45	300	1450/4P
96	WQ1200-8-45	1200	8	45	350	1450/4P
97	WQ1300-8-45	1300	8	45	350	980/6P
98	WQ1700-6-45	1700	6	45	400	980/6P
99	WQ100-65-55	100	65	55	100	1450/4P
100	WQ180-50-55	180	50	55	150	1450/4P
101	WQ300-40-55	300	40	55	200	1450/4P
102	WQ600-20-55	600	20	55	250	1450/4P
103	WQ800-15-55	800	15	55	300	1450/4P
104	WQ1000-10-15	1000	10	15	350	1450/4P
105	WQ1100-10-55	1100	10	55	350	980/6P
106	WQ1300-8-55	1300	8	55	400	1450/4P
107	WQ1500-8-55	1500	8	55	400	980/6P
108	WQ2200-5-55	2200	5	55	500	980/6P
109	WQ120-75-75	120	75	75	100	1450/4P
110	WQ200-60-75	200	60	75	150	1450/4P
111	WQ350-45-75	350	45	75	200	1450/4P

NO.	Model	Flow (m³/h)	Head (m)	Power (kW)	Size (mm)	Speed (r/min)
112	WQ600-25-75	600	25	75	250	1450/4P
113	WQ800-20-75	800	20	75	300	1450/4P
114	WQ1000-15-75	1000	15	75	350	1450/4P
115	WQ1500-12-75	1500	12	75	350	980/6P
116	WQ1300-13-75	1300	13	75	400	1450/4P
117	WQ1700-10-75	1700	10	75	400	980/6P
118	WQ2000-8-75	2000	8	75	500	980/6P
119	WQ120-85-90	120	85	90	100	1450/4P
120	WQ200-70-90	200	70	90	150	1450/4P
121	WQ300-55-90	300	55	90	200	1450/4P
122	WQ600-30-90	600	30	90	250	1450/4P
123	WQ800-25-90	800	25	90	300	1450/4P
124	WQ1000-18-90	1000	18	90	350	1450/4P
125	WQ1200-18-90	1200	18	90	350	980/6P
126	WQ1300-16-90	1300	16	90	400	1450/4P
127	WQ1500-15-90	1500	15	90	400	980/6P
128	WQ2000-10-90	2000	10	90	500	980/6P
129	WQ2500-8-90	2500	8	90	500	740/8P
130	WQ3000-6-90	3000	6	90	600	740/8P
131	WQ100-100-110	100	100	110	100	1450/4P
132	WQ180-80-110	180	80	110	150	1450/4P
133	WQ300-65-110	300	65	110	200	1450/4P
134	WQ600-40-110	600	40	110	250	1450/4P
135	WQ1000-25-110	1000	25	110	300	1450/4P
136	WQ1300-20-110	1300	20	110	350	1450/4P
137	WQ1600-16-110	1600	16	110	350	980/6P
138	WQ1500-18-110	1500	18	110	400	1450/4P
139	WQ1800-15-110	1800	15	110	400	980/6P
140	WQ2000-12-110	2000	12	110	500	1450/4P
141	WQ2500-10-110	2500	10	110	500	980/6P
142	WQ3000-8-110	3000	8	110	500	740/8P
143	WQ3800-6-110	3800	6	110	600	740/8P

## Introduction to the use environment and function of portable submersible pumps

### Applicable working conditions:

agricultural drought resistance, fire remote water supply; Municipal pipe network drainage: suitable for underground space (subway tunnels, underground parking lots, traffic interchanges, civil air defense projects. Underground shopping malls) emergency drainage, urban drainage, emergency water supply and drainage of reservoir auxiliary pumping stations, emergency drainage of engineering foundation pits, auxiliary drainage of sewage plant reconstruction and other special environmental emergency rescue drainage.

1. Suitable for a variety of complex working conditions (portable submersible pumps can easily wade into some working conditions that are difficult to reach by traditional submersible pumps and self-priming pumps)
2. More convenient transportation, loading and unloading (small size, light weight)
3. Simple installation, convenient operation, easy to master, no professional knowledge required
4. The operating radius is larger (by extending the power supply line, the operating radius can reach 500 meters)
5. High efficiency, truly realize individual combat, fast water discharge, large flow and high lift
6. Low failure rate (basically maintenance-free)
7. Safety: high protection, high insulation multiple protection
8. Intelligent: ergonomic appearance design, intelligent functional design
9. Universality: It can be easily installed and used to adapt to the lack of light at night, and adapt o a variety of working conditions.

### Characteristics of water pump use:

1. The connection between the hose and the pump is designed quickly, the installation does not require any accessories, no tools, pure manual operation, simple and convenient, and it is completed in a few seconds.  
It also reflects the importance of rescue time.
2. The water pump net cover and the outlet of the pump are basically fully covered, which avoids the blockage of debris during the operation, greatly reduces the impact on the flow, and also avoids repeated pump shutdown to remove debris, reduces the operation intensity, and improves the efficiency of flood control and rescue.
3. The intelligent control cabinet adopts ergonomic design, which is convenient for handling and transportation, and reduces the working load.
4. The pump efficiency reaches the maximum, the zero-based operation is simple, and the water is fast.
5. The cable installation interface is clearly distinguished, which can also be easily installed to adapt to the lack of light at night, and fundamentally solve the mixed connection of input and output, reduce the failure rate and prolong the service life of the equipment.
6. The wear-resistant parts are made of high-quality 304 material, and the pump body is made of aviation aluminum, which has good heat conduction performance and reduces the weight of the pump to the greatest extent.  
Withdrawal portability.
7. The pump body is treated with wear-resistant and anti-corrosion