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SHANGHAI LIANSHENG PUMP-MAKING CO.,LTD.

QZB/QHB Submersible axial flow pump

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LIANSHENGPUMP

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LIANSHENGPUMP

Shanghai Liansheng Pump-Making Co., Ltd. was established in 1967 and is a technology-based private enterprise that integrates production, manufacturing, design, research and development, and product sales; The product is widely used in areas such as building domestic water supply, fire water supply, boilers, air conditioning circulating cooling, and sewage discharge.

In 2018, the enterprise carried out Digital transformation, created a smart water service platform, and realized remote monitoring of intelligent water supply equipment, such as water quality, pressure, flow, equipment operation status, motor life, energy consumption, etc; At the same time, we have combined AR technology to create a 5G smart factory, achieving real-time communication and visits in different places, and have over 200 sets of advanced automated and intelligent production equipment.

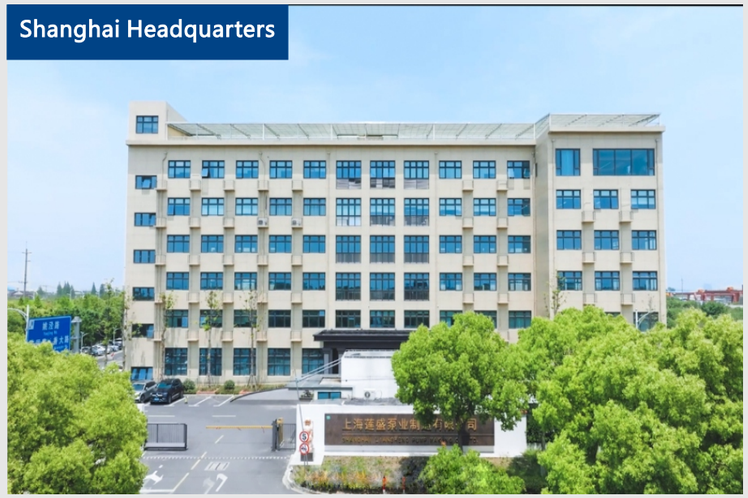
Headquartered at No. 918, Xinjin Road, Qingpu District, Shanghai, covering an area of 33 mu and a building area of 34000 ㎡.

The production base is located at No. 51, Guohua Road, Guangde City, Xuancheng, Anhui Province, covering an area of 61 mu and a building area of 43000 ㎡.

Liansheng Former Site



Shanghai Headquarters



Anhui Factory



1967

Shanghai Liansheng Pump Manufacturing Co., Ltd Company (formerly Shanghai Liansheng Water Pump Factory)Built in the 1960s

1998

98 National Invention Competition "Excellent Product Award

2003

The "Liansheng" brand has been awarded by the Shanghai Administration for Industry and CommerceRecognized as a "Shanghai Famous Trademark",And in the same year, he was awarded the title of "Chinese Brand Product"Title.

2018

The developing Liansheng is constantly striving,We will provide our customers with higher quality productsOur products offer better service.

1、Overview

The QZB series submersible axial flow pump is an updated product of the traditional water pump electric motor unit.

This type of pump is a high flow and low head pump. Widely applicable for agricultural drainage and irrigation, industrial thermal power stations for conveying circulating water, urban water supply and drainage, dock water level adjustment, and mild sewage discharge. The maximum temperature of the liquid being sucked is 40 ℃ , with a pH value of 5-9.

The usage scenarios, inlet and outlet water conditions, and performance parameters of this pump are basically the same as axial flow pumps. Users can easily replace it with submersible electric pumps in new pump station projects, or update it with submersible electric pumps in old pump stations.

Due to the integration of the pump and motor, and the fact that it operates underwater, it has advantages that traditional water pumps cannot match:

The total investment of pump station engineering can be saved by 30% to 40%;

Shorten the construction period by more than 20%;

- Save over 95% of installation time for the unit;
- Reduce the weight of the unit by more than 50%;
- The ground building height is low, which can save pump room buildings and flood control investment in pump stations;
- Good cooling conditions for the motor;
- No operating noise, simple operation, convenient maintenance, and easy automation operation;

2、Model significance

700 QZB 70 I G

- G — Speed high and low
- I — I-type impeller model
- 70 — The value obtained by dividing the specific speed by 10
- QZB — Submersible axial flow pump
- 700 — Nominal diameter of water outlet (mm)

900 QZB 2.8 - 6.7

- 6.7 — Design point lift (at 0 °) (m)
- 2.8 — Design point flow rate (at 0 °) (m3/h)
- QZB — Submersible axial flow pump
- 900 — Pump outlet diameter (mm)

3、Structural Description

1. Water pump section

The submersible axial flow pump is a whole composed of a shared shaft between the submersible motor and the axial flow pump head. The motor and pump are separated by double or triple mechanical seals, and the cable inlet is sealed with an inlet seal to ensure that the entire motor is in a good sealing state, and the entire machine runs underwater. Internally equipped with leakage and internal winding temperature rise protection devices, equipped with control cabinets, safe and reliable operation, and wide adaptability to water quality and environment. The adjustable head and flow rate of the blades have a wide range of changes, making it a replacement product of traditional water pumps. From above the motor, the impeller rotates clockwise

When the motor power is below 315kw, the voltage is 380V; When the motor power is above 315kw, the voltage can be 3kV, 6kV, 10kV, and a 6/10kV dual voltage motor can be used.

The submersible motor is a dry type motor with an insulation level of Fand a protection level of IP68. For high-voltage submersible motors, we adopted the VPI vacuum pressure impregnation process and imported insulation materials to make the windings of the submersible motor as a whole. The self-designed grounding system has successfully solved the problems of step voltage and high-voltage leakage. In terms of motor cooling, the cooling technology that has obtained national patents is adopted, which uses three-phase winding with low temperature rise and uniform temperature field distribution. The hydraulic model with high reliability for motor operation is selected from mature and excellent models designed nationwide, which have interchangeability with traditional water pumps and are convenient for users to choose.

When changing the operating conditions of a semi adjustable submersible axial flow pump, first remove the fixing screws, then loosen the nuts and washers, and rotate the blades. Align the reference line of the blade with the required angle line of the hub body, then install the positioning pin and tighten the nut to achieve the adjustment purpose (the placement angle of each blade should be consistent). Generally, the product has been adjusted to a certain angle according to the user's needs when it leaves the factory.

2. Electrical wiring

The electrical circuit connection should be constructed by a formal electrician according to the electrical wiring diagram, and the cable head should be removed according to local safety regulations. Then, the terminal block should be covered and pressed tightly to ensure firmness and reliability, and the wiring should be carried out according to the prescribed wiring method. Pay attention to the parameters on the label and compare the rated voltage and frequency with the main voltage and frequency.

Under different voltages, the outer sheath of the motor cable cannot be opened and there should be no signs of damage. Detecting the oil-water signal inside the guide vanes of the mechanical seal on the water pump side.

Under normal conditions, check the probe (YS) with a multimeter, and its positive value is infinite. Check the overheat protection head (WK) of the three-phase winding under normal conditions, and use a multimeter to check that its resistance value is zero, indicating that the circuit is in a connected state. The water ingress sensor (JS) in the wiring chamber of the cable is checked with a multimeter under normal conditions, and its resistance value is infinite. The leakage float ball sensor (XL) for detecting the mechanical seal on the motor side is checked with a multimeter under normal conditions, and its resistance value is infinite. The shaft temperature sensor (ZW) for detecting bearing temperature (this function is included in pumps with a capacity of 160kw or above) is checked with a multimeter under normal conditions, and its resistance value is zero, indicating that the circuit is in a connected state. The motor wiring method is "△".

Before installing the water pump, the instantaneous direction of the motor should be consistent with the direction mark when it is in a dry state.

Check the protective device of the water pump to ensure its proper wiring.

The rated current of the motor is marked on its nameplate.

4、 Installation

The pump is installed on the wellbore, and the sealing of the joint surface between the pump and the wellbore adopts an O-ring. Due to the weight of the pump and the water thrust, the pump is tightly pressed on the pump seat for sealing.

(1) Instantly turn on the power to the water pump on the ground and observe if the direction of the water pump is correct. It should not exceed one minute. If there is any inconsistency, adjust any two sides of the power supply to opposite directions:

(2) Fix the cable fixing rope to the pump lifting device with a steel wire rope clamp. When fixing, be sure to fasten the steel wire rope clamp seat to the working section of the steel wire rope, and fasten the U-shaped bolt to the tail section of the steel wire rope. The rope clamp closest to the pump lifting device should be as close as possible to the bend of the steel wire rope. The rope clamp farthest from the bend shall not be tightened separately and shall not damage the outer layer of the steel wire rope. The wire rope clamp shall not be arranged alternately on the wire rope, and the distance between the two shall be about 100mm.

(3) Use cable clamps to fix the cable to the cable fixing rope, with a spacing of 600-700mm. Pay attention to tightening the clamps to prevent the cable from being scratched or cut.

(4) Check the reliability of each connection surface of the well casing to prevent water leakage. Lift the pump into the wellbore and ensure smooth lifting. After placing it, use a spiral buckle to tighten the cable fixing rope and hang it on the pull rod on the side of the wellbore. Lead out the cable from the pressure plate and flange, cover the pressure plate and seal it accordingly. The installation of the pump is now complete

Attention: 1. It is strictly prohibited to test drive in water, as reversing in water can cause serious consequences;

2. The cable should not be pulled forcefully, let alone used for lifting, to prevent damage to the cable and seal. When disassembling the pump, it is the opposite of installation. First, remove the pressure plate, release the cable, and when lifting out the pump, remove the cable fixing device. Cable fixing ropes within 1200mm do not require clamps.

5、 Operation, maintenance, and upkeep

1. Before operation, check the insulation resistance of the electric pump motor to the ground and measure it with a 500V megohmmeter. The value should not be less than 2M Ω, and check whether the grounding is firm and reliable. If it is less than 2M Ω, professional maintenance personnel should be asked to dry it;

2. Regularly inspect the insulation resistance between the electric pump motor and the ground, which should not be less than 2M Ω. Otherwise, the machine should be disassembled for maintenance. At the same time, check whether the grounding is reliable and firm, and whether the cable skin is broken;

3. There is a certain gap designed between the impeller blades and the impeller chamber, which has a sealing function. When the maximum wear gap in the diameter direction exceeds 2mm, the blades should be replaced;

4. After six months of normal operation of the electric pump under the specified working medium conditions, the sealing condition of the sealing chamber and whether the oil in the sealing chamber is in an emulsified state or has water precipitation should be checked. If any, the oil and mechanical seal should be replaced in a timely manner with grades 10-30;

5. When the electric pump is not used for a long time (such as more than 3 months), it is not advisable to soak it in water statically. The standby pump should be replaced and operated regularly to reduce the chance of moisture in the stator winding of the motor. When the temperature is low, the water pump should be removed to prevent freezing;

6. If stored for a long time (more than 6 months), please regularly maintain it yourself:

7. When the product leaves the factory, measures have been taken to seal the cable ends to prevent moisture. It is strictly prohibited to immerse the cable head in water;

8. The rotor must be rotated at least one to two turns per month to form a new protective lubricating film, preventing mechanical seals from sticking to each other;

9. Before using the submersible motor, the insulation resistance should be checked and measured with a 500V megohmmeter. When in the cold state, it should not be less than 2M Ω;

6、 Ordering Notice

1. The accurate product model, installation form, performance parameters (flow rate, head, motor power, blade installation angle) and operating voltage should be specified in the contract;

2. The control cabinet should indicate its starting method (direct starting, self coupling voltage reduction starting, thyristor soft starting), liquid level control method (float level pressure sensor digital display: liquid level), installation form (indoor shape, outdoor shape);

3. If equipped with a terminal box, it should be indicated whether it is a control type or a wiring type:

4. The dimensions that need to be determined by the user in the scope of supply should be provided in a timely manner, and the user should also provide installation and construction drawings:

5. The normal supply length of diving cables in our factory is 10 meters. If the user has special requirements, please indicate them.

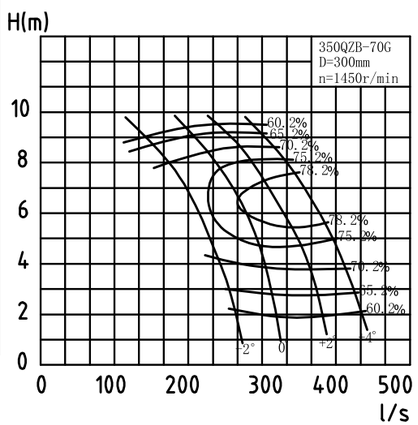
7、 Fault repair

fault	cause	Elimination method
Pump does not discharge water	1. The pump rotation direction is incorrect; 2. Blade fixation failure.	1. On shore testing, adjust the direction of rotation, and do not allow the pump to reverse in water; 2. Repair the blade nut and adjust the bladeangle
Insufficient traffic	1. The head of the device is higher than the rated head of the pump; 2. The blade installation angle is too small; 3. Convey to the rated value; 4. Wear or damage to the outer circle of the blade; 5. The valve is not open; 6. Well mounted installation, the sealing of the cylinder body is not properly installed; 7. When multiple pumps output together, the one-way valve is not installed or the sealing of the one-way valve is not tight	1. Reduce the head of the device or increase the inlet water level or select a new type; 2. Readjust the blade installation angle; 3. Eliminate motor faults; 4. Replace; 5. Check the valve; 6. Reinstall 7. Check or replace, and install a one-way valve.
Pump overload or abnormal noise and vibration	1. Installation does not meet the requirements; 2. The operating condition exceeds the allowable performance range; 3. There are debris wrapped around the blade guide vanes or trash racks; 4. The inlet water level is too low, causing the impeller to be submerged and not deep enough, resulting in cavitation; 5. Incorrect blade installation angle or blade damage; 6. Bearing damage or oil shortage; 7. Friction occurs between the blade and the impeller chamber	1. Reinstall according to the installation diagram; 2. Stop operating outside the allowed range; 3. Remove debris; 4. Suspend operation or reinstall water level, lower installation height or increase inlet water level; 5. Readjust the blade installation angle or replace the blade; 6. Replace or refuel; 7. Adjust the clearance between the blades and the working chamber or replace the rubber bearings.
Leakage protection action	1. Mechanical seal defects on the motor side; 2. Loose or oil deficient plugs; 3. O-ring failure and water ingress.	1. Replace; 2. Replace the plug seal and dry the motor; 3. Replace the O-ring drying motor;
Oil and water (YS) indicator light is on	The mechanical seal on the water pump side is faulty	Replace the machine seal and oil;
Terminal box probe signal	1. The sealing cover of the incoming line is not tightly pressed 2. Cable damage.	1. Compression; 2. Replace.

Performance parameters and curves

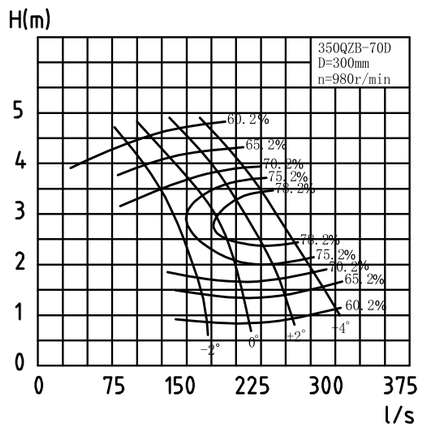
350QZB-70G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	677	187.9	7.66	1450	19.7	22	67.6	300
	833	231.3	4.96		15.7		72.1	
	905	251.3	3.57		13.1		72.1	
0°	774	215	8.97		27.8	30	68.1	
	974	270.4	6.49		22.1		78.1	
	1103	306.3	3.79		16.8		68.1	
+2°	984	273.3	8.63		30.6		75.1	
	1136	315.4	6.63		26.3		78.1	
	1271	352.9	4.74		21.9		75.8	
+4°	1185	329.2	8.02		34.1	37	75.1	
	1325	367.9	6.49		30.1		78.1	
	1449	402.5	5.10		26.9		76.1	



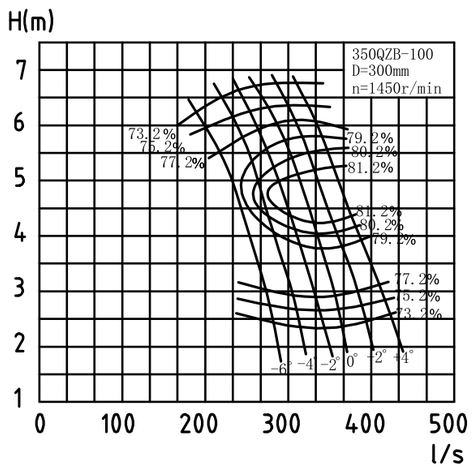
350QZB-70D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	451	126.1	3.4	980	6.28	7.5	65.6	300
	555	154.2	2.2		4.75		70.3	
	603	167.5	1.58		3.98		67.1	
0°	516	143.3	3.98		8.12	11	69	
	649	180.3	2.88		6.59		77.5	
	735	204.2	1.68		4.69		72.1	
+2°	656	182.2	3.83		9.28		73.1	
	757	210.3	2.94		7.90		76.9	
	847	235.3	2.10		6.66		73.9	
+4°	790	219.4	3.56		10.41	15	73.7	
	883	245.3	2.88		8.97		77.4	
	966	268.3	2.26		8.04		74.2	



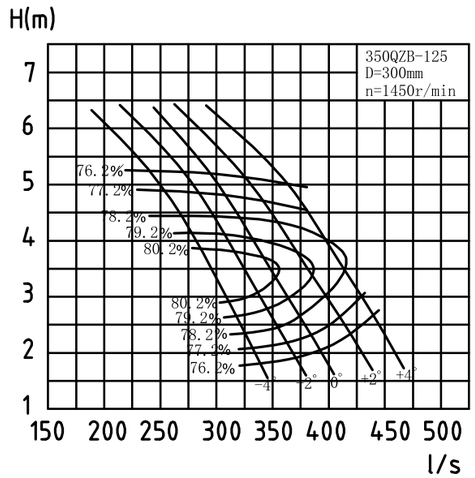
350QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	827	229.7	5.24	1450	15.32	18.5	77.1	300
	901	250.3	4.04		12.55		79.1	
	970	269.4	3.24		11.13		77.1	
-4°	878	243.9	5.84		18.12		77.1	
	1009	280.3	4.14		14.21		80.2	
	1101	305.8	2.94		11.46		77.1	
-2°	939	260.8	6.14		20.37	22	77.1	
	1099	305.3	4.24		15.73		80.9	
	1190	333.1	2.94		12.48		77.2	
0°	1006	279.4	6.24		22.18		77.2	
	1189	330.3	4.24		16.95		81.2	
	1285	356.9	2.94		13.38		77.2	
+2°	1099	305.3	6.34		24.62	30	77.2	
	1261	350.3	4.44		18.71		81.7	
	1361	378.1	3.24		15.61		77.2	
+4°	1201	333.6	6.04		25.63		77.2	
	1351	375.3	4.44		20.17		81.2	
	1433	398.1	3.54		17.95		77.2	



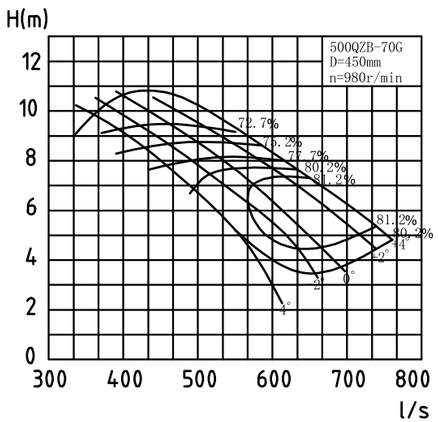
350QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	865	240.3	5.24	1450	16.23	18.5	76.1	300
	1117	310.3	2.94		11.08		80.9	
	1197	332.5	2.14		9.2		76.1	
-2°	965	268.1	5.24		18.11	22	76.1	
	1201	333.6	3.14		12.77		80.6	
	1301	361.4	2.24		10.47		76.1	
0°	1065	295.8	5.14		19.6		76.1	
	1281	355.8	3.24		14.12		80.2	
	1391	386.4	2.24		11.19		76.1	
+2°	1212	336.7	4.84		21.01	30	76.1	
	1380	383.3	3.44		16.31		79.4	
	1485	412.5	2.54		13.54		76.1	
+4°	1335	370.8	4.84		23.14		76.1	
	1477	410.3	3.54		18.19		78.1	
	1564	434.4	2.84		15.93		76.1	



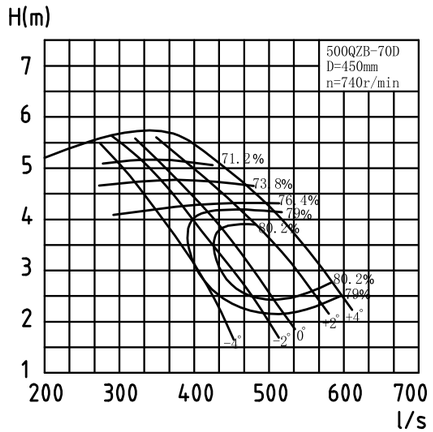
500QZB-70G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1369	380.3	9.48	980	50.39	55	70.1	450
	1761	489.2	7.04		42.36		79.7	
	2061	572.5	4.39		31.38		78.6	
-2°	1721	478.1	8.24		51.75		73.6	
	2011	558.6	6.47		44.24		80.4	
	2251	625.3	4.94		41.17		74.6	
0°	2100	583.3	7.04		50.33		77.1	
	2161	600.3	6.34		45.90		81.3	
	2511	697.5	3.94		34.98		80.0	
+2°	2341	650.3	6.64		51.88		81.6	
	2561	711.4	5.54		47.08		82.1	
	2661	739.2	4.71		41.86		81.6	
+4°	2522	700.5	6.24		52.15		79.3	
	2594	720.5	6.04		51.34		83.1	
	2848	739.2	4.74		46.36		82.2	



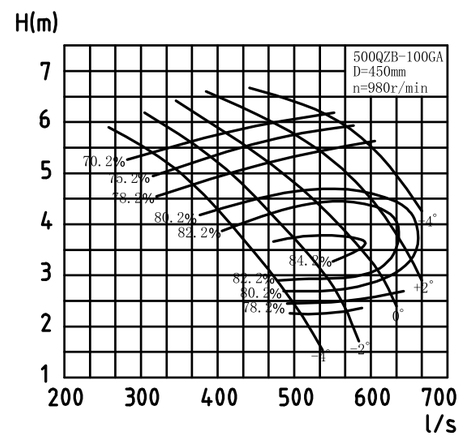
500QZB-70D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1021	283.6	5.36	740	21.83	30	68.3	450
	1311	364.2	3.98		18.17		78.5	
	1531	425.3	2.49		13.47		77.3	
-2°	1176	326.7	5.2		22.77		72	
	1501	416.7	3.6		18.68		78.9	
	1676	465.6	2.8		17.79		73.1	
0°	1481	411.4	4.2		21.77		75.7	
	1611	447.5	3.6		19.73		80.2	
	1871	519.7	2.2		14.84		77.9	
+2°	1711	475.3	3.99		23.13		80.5	
	1911	530.8	3.14		20.22		81.0	
	1991	553.1	2.67		18.03		80.5	
+4°	1641	455.8	4.48		26.54		75.5	
	1961	544.7	3.56		23.19		82.1	
	2101	583.6	2.86		20.10		81.6	



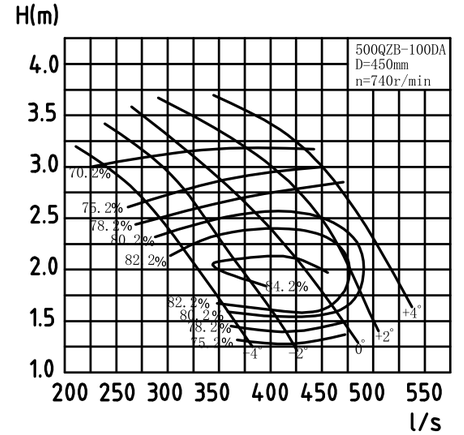
500QZB-100GA

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1221	339.2	5.12	980	23.5	30	71.4	450
	1544	428.9	3.83		19.41		83.4	
	1891	525.3	1.86		13.33		72.5	
-2°	1482	411.7	5.04		27.1		75.1	
	1727	479.7	4.02		22.35		84.7	
	2014	559.4	2.54		17.89		78.1	
0°	1801	500.3	4.84		30.42	37	78.1	
	2078	577.2	3.64		23.96		86.1	
	2246	623.9	2.79		21.36		80.1	
+2°	1966	546.1	5.38		37.77	45	76.3	
	2221	616.9	4.19		30.64		82.8	
	2373	659.2	3.09		24.98		80.1	
+4°	2006	557.2	5.97		45.75	55	71.3	
	2251	625.3	5.18		40.06		79.3	
	2343	650.8	4.54		36.42		79.6	



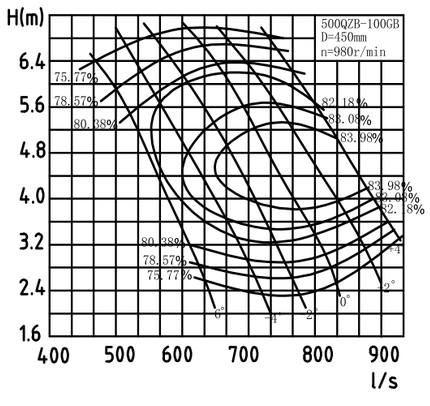
500QZB-100DA

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	910	252.7	2.84	740	9.77	11	72.1	450
	1150	319.5	2.15		8.03		83.1	
	1409	391.3	1.05		5.25		75.1	
-2°	1104	306.7	2.78		11.21	15	75.1	
	1287	357.4	2.22		9.25		84.7	
	1500	416.8	1.40		7.70		75.1	
0°	1342	372.7	2.68		13.19	18.5	74.5	
	1548	430.0	2.02		9.91		86.1	
	1673	464.8	1.54		8.84		80.1	
+2°	1465	406.9	2.98		16.44		72.5	
	1655	459.6	2.32		12.68		82.8	
	1768	491.1	1.71		10.08		82.1	
+4°	1494	415.1	3.31		18.76	22	71.9	
	1677	465.8	2.87		16.57		79.3	
	1746	484.9	2.52		15.05		79.7	



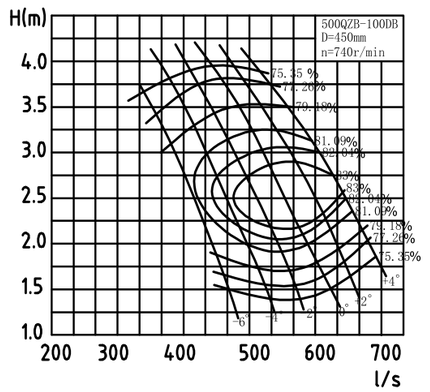
500QZB-100GB

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	1766.5	490.7	6.02	980	36.79	45	76.76	450
	2053.9	570.5	4.18		28.52		82.17	
	2284.3	6.34.5	2.62		21.15		78.56	
-4°	1799.4	499.8	6.95		45	55	75.76	
	2300.3	639	4.25		32.08		83.16	
	2542.5	706.3	2.71		23.97		78.56	
-2°	2041.6	567.1	6.74		47.76		76.76	
	2505.6	696	4.36		35.62		83.70	
	2801.2	778.1	2.39		23.85		78.56	
0°	2312.6	642.4	6.45		50.61		78.56	
	2709.8	752.7	4.38		38.45		84.24	
	2981.9	828.3	2.76		28.63		80.36	
+2°	2571.2	714.2	6.12		52.21		78.56	
	2875.1	798.6	4.62		42.70		84.87	
	3170.7	880.8	3.02		33.30		82.17	
+4°	2998.3	832.9	5.08		49.48		78.56	
	3080.4	855.7	4.61		46.04		84.15	
	3343.2	928.7	3.32		38.58		83.97	



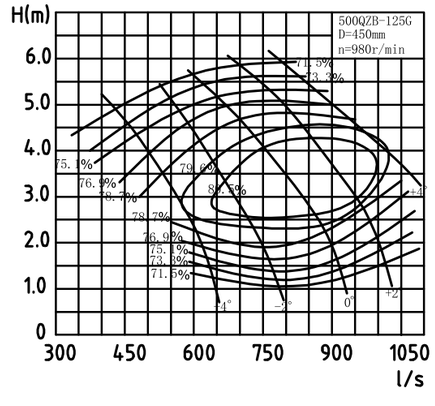
500QZB-100DB

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	1316	365.6	3.33	740	15.87	22	75.34	450
	1530	425	2.32		11.96		81.08	
	1702	472.7	1.44		8.92		75.34	
-4°	1341	372.4	3.85		18.72		75.34	
	1714	476	2.35		13.44		82.13	
	1894	526.2	1.50		9.84		79.17	
-2°	1521	422.5	3.74		19.60		79.17	
	1867	518.5	2.42		14.96		82.41	
	2087	579.7	1.32		9.57		79.17	
0°	1723	478.6	3.58		22.33	30	75.34	
	2019	560.8	2.43		16.09		83.27	
	2222	617.1	1.53		11.75		79.17	
+2°	1916	532.1	3.39		23.55		75.34	
	2142	595.0	2.56		17.86		83.94	
	2362	656.2	1.67		14.36		75.34	
+4°	2234	620.5	2.81		22.24		75.34	
	2295	637.5	2.55		19.27		83.18	
	2491	691.9	1.84		16.64		77.25	



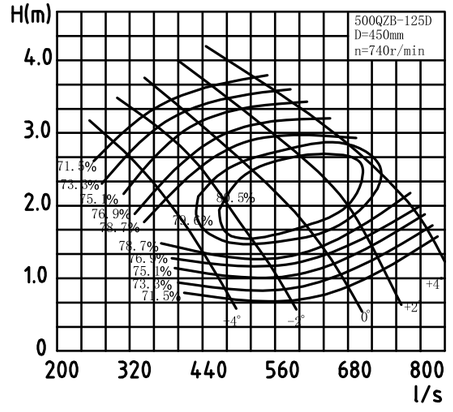
500QZB-125G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1621	450.3	4.59	980	27	30	75.1	450
	1963	545.3	3.24		21.53		80.6	
	2197	610.3	2.04		16.31		75.1	
-2°	2071	575.3	4.79		34.61	37	75.1	
	2395	665.3	3.34		26.74		81.6	
	2701	750.3	1.94		19.08		78.1	
0°	2485	690.3	4.84		41.70	45	76.9	
	2845	790.3	3.54		33.26		82.6	
	3205	890.3	2.04		24.28		78.6	
+2°	2809	780.3	5.14		51.35	55	75.1	
	3241	900.3	3.64		39.19		82.1	
	3511	975.3	2.54		32.42		76.6	
+4°	3637	1010.3	4.04		50.30		79.6	
	3835	1065.3	3.64		49.69		76.6	



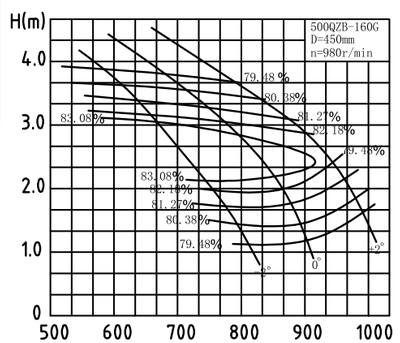
500QZB-125D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1208	335.5	2.54	740	11.31	15	74.2	450
	1462	406.2	1.79		8.99		79.9	
	1637	454.7	1.13		6.83		74.2	
-2°	1543	428.6	2.65		14.47	18.5	74.2	
	1784	495.6	1.85		11.16		80.9	
	2012	559.0	1.07		7.99		77.3	
0°	1851	514.3	2.68		17.42	22	72.7	
	2020	588.8	1.96		13.87		81.9	
	2388	663.3	1.13		10.17		77.8	
+2°	2093	581.3	2.85		21.46	30	74.2	
	2415	670.7	2.02		16.35		81.4	
	2616	726.6	1.41		13.57		75.8	
+4°	2710	752.7	2.24		21.02		78.8	
	2857	793.6	2.02		20.77		75.8	



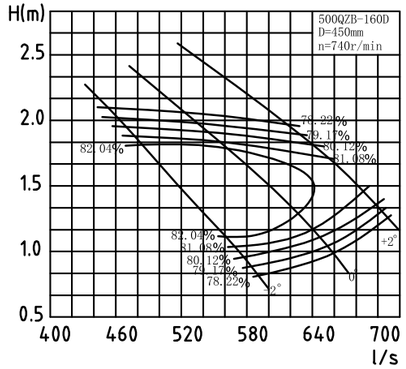
500QZB-160G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	2193.4	609.3	3.76	980	28.33	30	79.47	450
	2546.2	707.3	2.6		21.44		84.47	
	2805.4	779.3	1.75		16.92		79.47	
0°	2569.6	713.8	3.61		31.87	37	79.47	
	2957.3	821.5	2.61		24.99		84.42	
	3158.6	877.4	1.83		19.92		79.47	
+2°	2990.1	830.6	3.45		35.44		79.47	
	3195.3	887.6	3.06		32.50		82.17	
	3474.6	965.2	2.17		25.66		80.37	



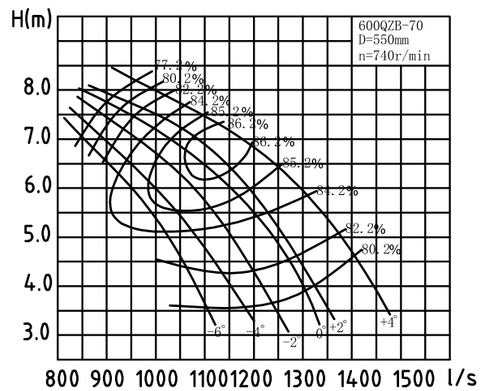
500QZB-160D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	1634.1	453.9	2.08	740	11.91	15	78.2	450
	1896.9	526.9	1.44		8.97		83.46	
	2090	580.6	0.97		7.03		79.17	
0°	1914.4	531.8	2		13.4	18.5	78.21	
	2203.2	612.0	1.44		10.58		82.51	
	2353.2	653.7	1.01		8.27		79.16	
+2°	2227.6	618.8	1.91		14.9		78.20	
	2380.5	661.2	1.69		13.63		81.08	
	2588.6	719.0	1.20		10.78		79.16	



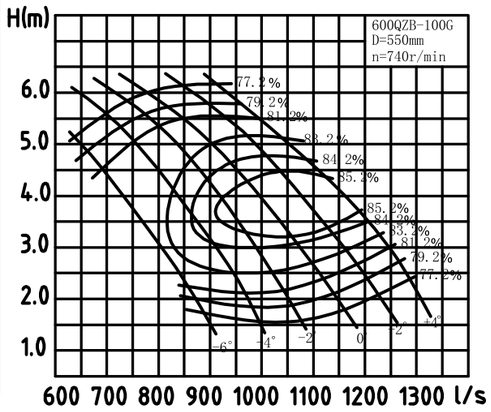
600QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	2987.5	829.9	7.24	740	75.8	90	77.8	550
	3528	980	5.6		64.36		83.8	
	4037.3	1121.5	3.22		44.61		79.8	
-4°	3065.7	851.6	7.44		79.92		77.8	
	3672	1020	5.88		69.58		84.8	
	4310.9	1197.5	3.3		48.90		77.8	
-2°	3138.3	871.8	7.61		83.77		77.8	
	3816	1060	6.16		75.73		84.8	
	4528.7	1258	3.42		53.21		79.8	
0°	3222	895	7.82		88.36	110	77.8	
	4032	1120	6.33		81.24		85.8	
	4740.9	1316.9	3.61		58.76		79.8	
+2°	3277.9	910.5	7.94		91.26		77.8	
	3744	1040	6.58		78.22		85.8	
	4802.8	1334.1	3.78		62.10		79.8	
+4°	3439.8	955.5	8.16		98.20		77.8	
	4302	1195	6.93		94.64		85.8	
	5165.2	1434.8	4.09		72.24		79.8	



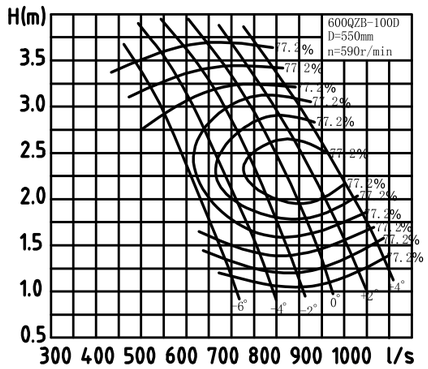
600QZB-100G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	2402	667.3	4.98	740	40.23	45	77.19	550
	2793	775.9	3.47		32.43		81.79	
	3107	863	2.16		23.83		81.29	
-4°	2447	679.8	5.77		46.3	55	81.49	
	3128	869	3.53		36.12		83.59	
	3458	960.5	2.25		26.17		83.29	
-2°	2777	771.3	5.59		51		81.39	
	3408	946.6	3.62		40.06		84.19	
	3810	1058.2	1.98		25.48		83.19	
0°	3145	873.6	5.35		55.48	75	82.89	
	3685	1023.7	3.63		43.41		84.39	
	4055	1126.5	2.29		30.61		83.19	
+2°	3497	971.3	5.08		57.48		84.39	
	3910	1086.1	3.83		50.04		81.89	
	4312	1197.8	2.50		35.04		84.39	
+4°	4078	1132.7	4.21		56.26		81.49	
	4189	1163.7	3.82		53.04		82.59	
	4547	1263.0	2.75		42.07		83.49	



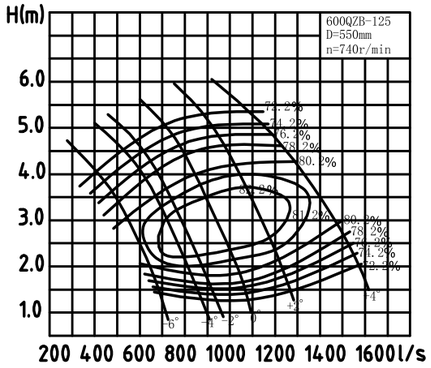
600QZB-100D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	1910	530.4	3.13	590	20.2	30	77.1	550
	2220	616.8	2.18		16.3		81.7	
	2470	686.1	1.36		12.01		81.2	
-4°	1945	540.4	3.63		23.25		81.4	
	2487	690.8	2.22		18.16		83.5	
	2749	763.6	1.41		13.17		83.2	
-2°	2208	613.3	3.52		25.58		81.3	
	2709	752.6	2.28		20.13		84.1	
	3029	841.4	1.24		12.80		83.1	
0°	2500	694.5	3.37		27.82		82.8	
	2930	813.8	2.28		21.77		84.3	
	3224	895.5	1.44		15.38		83.1	
+2°	2780	772.3	3.20		28.85	37	84.3	
	3108	863.5	2.41		25.10		81.8	
	3428	952.2	1.57		17.58		84.3	
+4°	3242	900.6	2.65		28.20		81.4	
	3330	925.1	2.40		26.58		82.4	
	3615	1004.1	1.73		20.89		83.4	



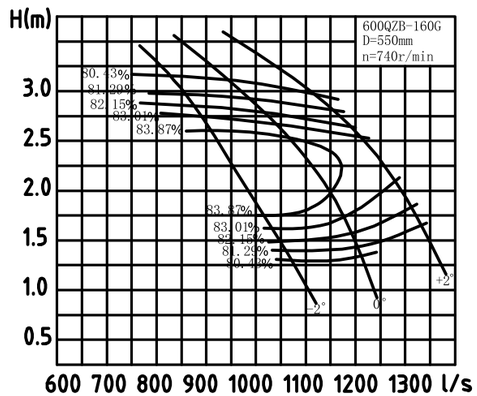
600QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	1652.7	459.1	3.84	740	24.16	30	71.9	550
	2102.4	584	2.64		19.06		79.9	
	2423.5	673.2	1.59		14.76		71.9	
-4°	2010.5	558.4	4.44		33.92	45	71.9	
	2707.2	752	2.64		23.92		81.9	
	3182.8	884.1	1.22		14.90		71.9	
-2°	2546.3	707.3	4.93		47.66	55	71.9	
	3312.0	920	2.94		32.54		81.9	
	3864.2	1073.4	1.27		18.80		71.9	
0°	3048.8	846.9	5.06		85.54	75	71.9	
	3888.0	1080	3.09		39.38		81.9	
	4545.4	1262.6	1.48		25.71		71.9	
+2°	3540.2	983.4	5.79		77.73	90	71.9	
	4435.2	1232	3.19		47.22		81.9	
	5047.9	1402.2	1.74		33.50		71.9	
+4°	4277.5	1188.2	4.93		79.99		71.9	
	5040.0	1400	3.49		59.38		81.9	
	5572.8	1548	2.25		47.72		71.9	



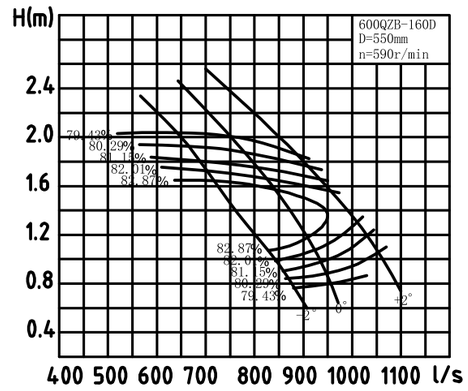
600QZB-160G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	2981.8	828.3	3.12	980	31.69	37	80.33	550
	3464.2	962.3	2.16		24.13		85.06	
	3814.8	1059.7	1.46		19.08		80.33	
0°	3494.4	970.7	3		35.7	45	80.33	
	4169.8	1158.3	1.81		24.99		82.91	
	4295.8	1193.3	1.52		22.35		80.33	
+2°	4066.1	1129.5	2.87		39.73		80.33	
	4346.2	1207.3	2.55		36.59		82.91	
	4729.3	1313.7	1.80		28.77		81.19	



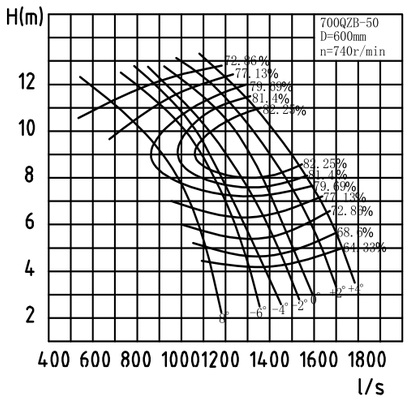
600QZB-160D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	2370.5	658.5	1.96	590	16.37	18.5	78.11	550
	2754	765	1.36		12.38		83.37	
	3032.8	842.4	1.02		9.76		79.08	
0°	2778	771.7	1.89		18.43	22	78.12	
	3315	920.8	1.14		12.64		82.42	
	3415.2	948.7	0.95		11.42		79.07	
+2°	3222.5	897.9	1.80		20.51		78.11	
	3455.2	959.8	1.60		18.81		80.99	
	3759.8	1044.4	1.13		14.84		79.07	



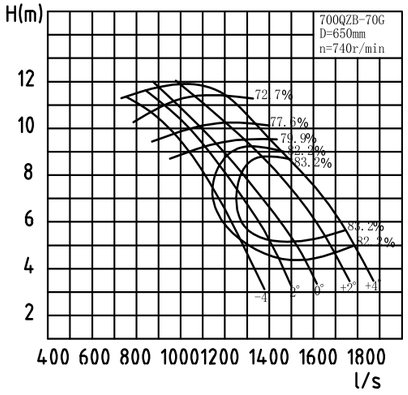
700QZB-50

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-8°	2704.1	751.1	10.67	740	108.1	132	68.4	600
	3427.2	952	8.49		100.48		78.9	
	3980	1105.6	5.06		80.29		72.6	
-6°	3894	1081.7	11.06		161.6		64	
	4011.4	1114.3	8.74		117.34		81.4	
	4135.78	1148.8	4.23		74.54		72.6	
-4°	3894	1081.7	9.38		121.34		72.6	
	4011.4	1114.3	8.99		119.81		82	
	4698.78	1305.2	5.59		98.68		82	
-2°	3103.84	862.2	11.69		136.15	160	69.9	
	4335.4	1204.3	8.99		128.85		82.4	
	5112	1420.0	5.24		104.47		72.6	
0°	3437.34	954.8	11.29		142.73		72.6	
	4655.26	1293.1	9.23		137.54		82	
	5159.77	1442.2	4.80		93.66		76.8	
+2°	3878.57	1077.4	12.09		166.17	185	72.6	
	4897	1360.3	9.49		152.68		82.9	
	5739.11	1594.2	5.95		128.25		76.8	
+4°	4748.5	1319.0	11.09		175.08		72.6	
	5163.4	1434.3	9.79		166.06		82.9	
	6018.22	1671.7	6.17		139.44		81.9	



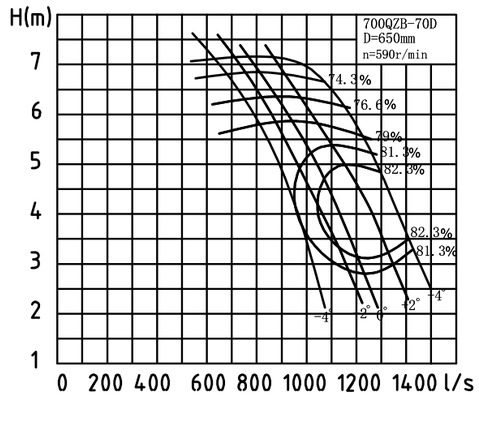
700QZB-70G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	3061	850.3	10.94	740	124.41	160	73.3	650
	3941	1094.7	8.15		106.99		81.8	
	4591	1275.3	5.08		78.73		80.8	
-2°	3521	978.1	10.64		132.16		76.3	
	4501	1250.3	7.50		111.10		82.8	
	5041	1400.3	5.72		103.02		77.2	
0°	4431	1230.8	8.76		130.06		79.5	
	4861	1350.3	7.34		116.86		83.2	
	5581	1550.3	4.57		87.52		81.3	
+2°	5111	1419.7	8.15		135.74		83.6	
	5711	1586.4	6.43		119.29		83.9	
	5961	1655.8	5.45		105.95		83.6	
+4°	5871	1630.8	7.29		137.36		84.9	
	6281	1744.7	5.84		118.47		84.4	



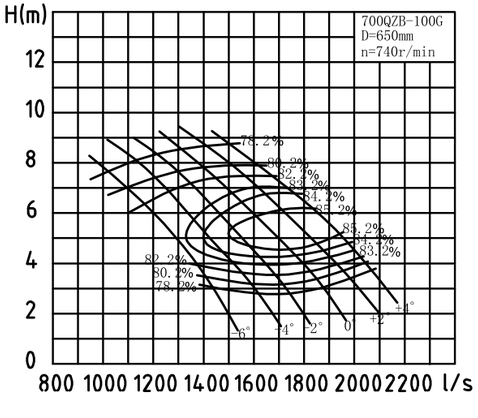
700QZB-70D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	2433	676	6.89	590	63.4	75	72.1	650
	3133	870.3	5.13		54.16		81	
	3650	1013.8	3.2		39.93		79	
-2°	2799	777.6	6.7		67.11		75.3	
	3578	994	4.72		56.65		81.4	
	4008	1113.2	3.6		52.33		76.2	
0°	3523	978.5	5.52		65.92		78.5	
	3864	1073.5	4.62		59.07		82.5	
	4437	1232.5	2.88		44.44		80.4	
+2°	4063	1128.7	5.13		68.69		82.8	
	4540	1261.2	4.05		60.30		83.2	
	4739	1316.4	3.43		53.63		82.8	
+4°	4667	1296.5	4.59		69.42		84.2	
	4993	1387.1	3.68		59.88		83.7	



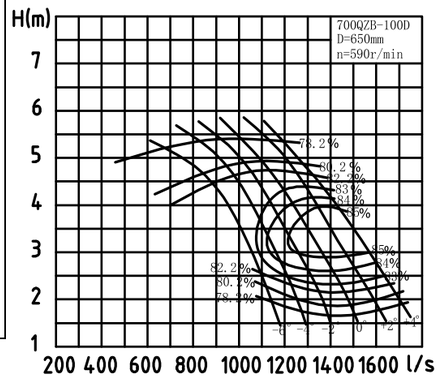
700QZB-100G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	3770.8	1047.4	7.46	740	98.16	110	78.1	650
	4609.6	1280.4	5.03		77.04		82.1	
	5199.5	1444.3	2.99		54.4		78.1	
-4°	4038.1	1121.7	8.03		113.12	132	78.1	
	5162.7	1434.1	4.94		82.72		84.1	
	5716.5	1585.1	3.13		60.93		80.1	
-2°	4406.9	1224.1	8.27		127.12	160	80.1	
	5623.6	1562.1	4.98		89.76		85.1	
	6213.4	1725.9	3.07		65.06		78.1	
0°	5191.4	1442.1	7.46		128.53		80.1	
	6084.4	1690.1	5.03		98.08		85.1	
	6692.8	1859.1	3.19		72.80		82.1	
+2°	5383.9	1490.1	8.01		146.66	185	78.1	
	6453.1	1792.5	5.34		110.40		85.1	
	7199.7	1999.9	3.20		80.55		80.1	
+4°	6167.4	1713.2	7.11		145.52		78.1	
	6914.0	1920.6	5.33		118.07		85.1	
	7586.8	2107.4	3.15		95.44		82.1	



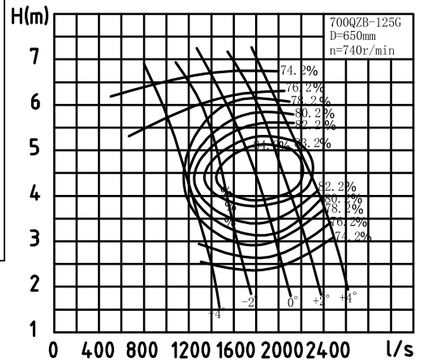
700QZB-100D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	2997.8	832.7	4.7	590	49.21	55	78.1	650
	3664.6	1018	3.17		38.63		82.1	
	4133.6	1148.2	1.88		27.3		78.1	
-4°	3210.3	891.7	5.06		55.29	75	80.1	
	4104.3	1140.1	3.11		41.48		84.1	
	4536.7	1260.2	1.97		31.34		78.1	
-2°	3503.5	973.2	5.21		63.72		78.1	
	4470.8	1241.9	3.13		45.01		85.1	
	4939.7	1372.1	1.93		32.63		80.1	
0°	4127.2	1146.4	4.70		66.03	90	80.1	
	4837.1	1343.6	3.17		49.17		85.1	
	5320.8	1478.0	2.01		36.51		80.1	
+2°	4280.2	1188.9	5.04		75.38		78.1	
	5130.2	1425.1	3.36		55.35		85.1	
	5723.8	1589.9	2.01		40.39		78.1	
+4°	4802.1	1362.0	4.48		76.66		78.1	
	5496.6	1526.8	3.35		59.18		85.1	
	6031.5	1675.4	2.26		47.85		78.1	



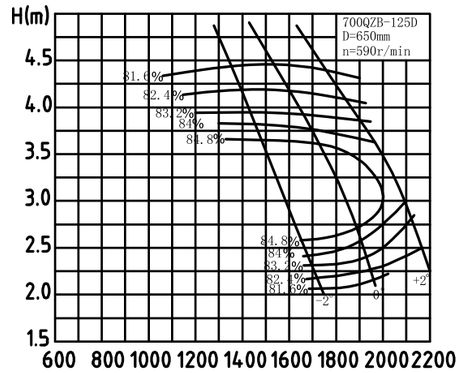
700QZB-125G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	3399	944.2	6.14	740	73.81	90	77.1	650
	4573	1270.3	3.65		54.21		84.1	
	5142	1428.3	2.16		38.94		78.1	
-2°	4555	1265.3	6.24		97.7	110	76.1	
	5633	1564.7	3.78		69.12		84.1	
	6323	1756.4	1.97		44.83		79.3	
0°	5351	1486.4	6.54		120.57	132	78.1	
	6661	1850.3	4.04		86.8		84.6	
	7381	2050.3	2.39		61.77		79.1	
+2°	6337	1760.3	6.32		136.26	160	80.1	
	7446	2068.3	4.30		103.86		84.1	
	7993	2220.3	3.19		86.27		80.7	
+4°	8353	2320.3	4.85		132.92		83.1	
	5403	2334.2	4.21		116.12		83.1	



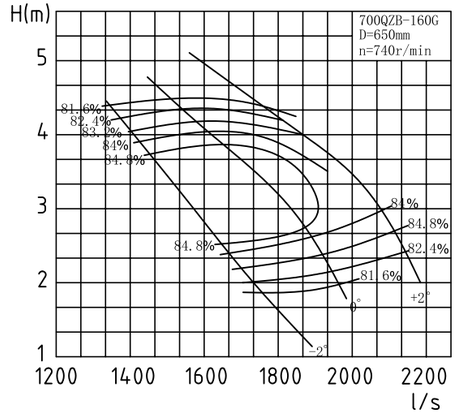
700QZB-125D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	2702	750.6	3.86	590	37.5	45	76.1	650
	3636	1009.9	2.3		27.43		83.4	
	4088	1135.5	1.36		19.76		77.3	
-2°	3621	1005.9	3.93		49.42	55	75.6	
	4478	1244.0	2.38		34.75		83.9	
	5027	1396.3	1.24		22.65		78.6	
0°	4254	1181.7	4.12		60.06	75	76.6	
	5295	1471.0	2.54		43.89		83.9	
	5868	1630.0	1.50		31.59		79.6	
+2°	5038	1399.4	3.98		69.15	90	79.1	
	5920	1644.3	2.71		52.50		83.4	
	6354	1765.1	2.01		43.58		80.1	
+4°	6641	1844.6	3.05		67.03		82.6	
	6680	1855.7	2.65		58.56		82.6	



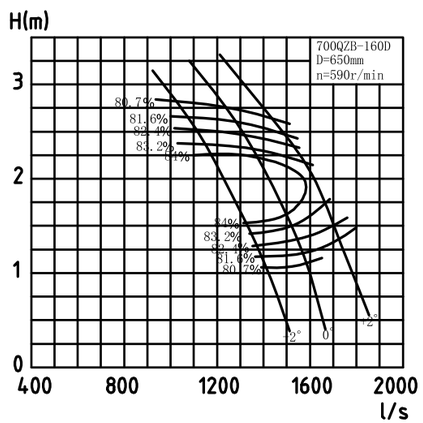
700QZB-160G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	4923.3	1367.6	4.34	740	71.57	90	81.56	650
	5715.7	1587.7	3		55.06		85.2	
	6296.4	1749	2.02		42.66		81.56	
0°	5767.3	1602	4.17		80.55	110	81.56	
	6637.5	1843.8	3.01		63.71		85.77	
	7087.3	1968.7	2.11		50.24		81.56	
+2°	6711.2	1864.2	3.99		89.69		81.56	
	7172.2	1992.3	3.54		82.61		83.99	
	7798.6	2166.3	2.50		64.78		82.37	



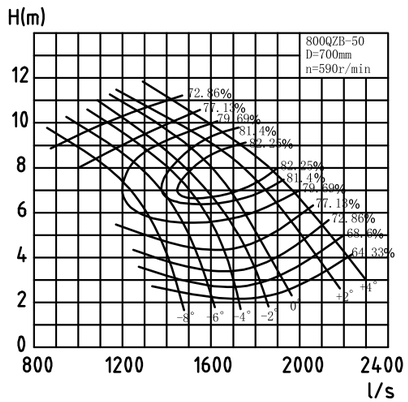
700QZB-160D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	3914	1087.2	2.73	590	36.27	45	80.71	650
	4544	1262.2	1.89		27.88		84.42	
	5005.6	2390.5	1.27		21.47		81.54	
0°	4585	1273.6	2.62		40.4	55	81.54	
	5276.8	1465.8	1.89		32.16		85.25	
	5634.4	1565.1	1.33		25.22		81.54	
+2°	5335.4	1482.1	2.51		45.44		80.71	
	5701.9	1583.9	2.23		41.82		83.19	
	6199.9	1722.2	1.57		32.75		81.69	



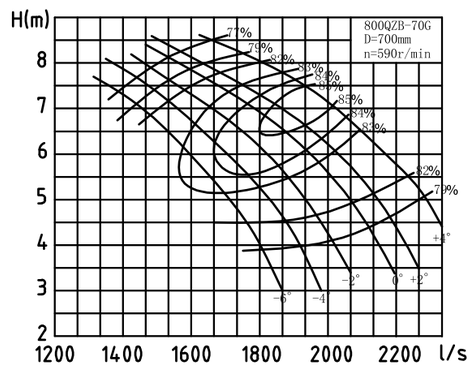
800QZB-50

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-8°	3407.2	946.4	9.18	590	113.95	160	70.79	700
	4318.3	1199.5	7.31		105.83		81.19	
	5014.8	1393	4.36		84.07		74.79	
-6°	4906.4	1362.9	9.52		139.09		66.79	
	5054.4	1404	7.53		124.74		82.99	
	5211.1	1447.5	3.65		77.41		75.19	
-4°	4906.4	1362.9	8.08		144.27		70.8	
	5054.4	1404	7.74		126.48		84.2	
	5920.5	1644.6	4.82		109.27		74.8	
-2°	3910.8	1086.3	10.06		146.06		67.2	
	5462.6	1517.4	7.74		136.37		84.4	
	6441.1	1789.2	4.52		117.81		78.7	
0°	4331.0	1203.1	9.72		150.34	185	70.8	
	5865.6	1629.3	7.95		141.26		84.4	
	6541.7	1817.1	4.14		104.05		81.1	
+2°	4887.0	1357.5	10.41		175.84	220	66.8	
	6170.2	1714.0	8.17		162.98		84.2	
	7231.3	2008.7	5.13		151.00		78.7	
+4°	5983.1	1662.0	9.55		197.48	250	70.8	
	6505.9	1807.2	8.43		177.27		84.2	
	7582.9	2106.4	5.31		154.96		78.7	



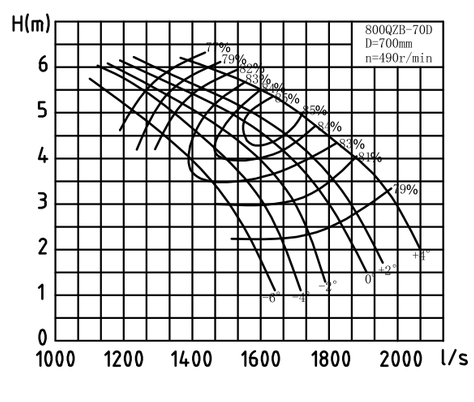
800QZB-70G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	5101	1416.9	7.32	590	128.94	160	78.9	700
	5171	1436.4	6.24		105.72		83.2	
	6381	1772.5	4.47		96.17		80.9	
-4°	5066	1407.2	7.82		140.34		76.9	
	6001	1666.9	6.37		102.19		84.1	
	6811	1891.9	4.45		123.88		80.9	
-2°	5391	1497.5	7.81		145.37	185	78.9	
	6366	1768.3	6.44		132.54		84.3	
	7171	1991.9	4.47		108.07		80.9	
0°	5541	1539.2	8.02		153.42		78.9	
	6621	1839.2	6.74		141.57		85.9	
	7536	2093.3	4.65		118.12		80.9	
+2°	5646	1568.3	8.14		158.66	200	78.9	
	6831	1897.5	6.88		149.78		85.5	
	7791	2164.2	4.79		125.78		80.9	
+4°	7131	1980.8	7.24		165.67		80.9	
	7771	2158.6	6.03		154.04		82.9	
	8211	2280.8	5.06		140.01		84.9	



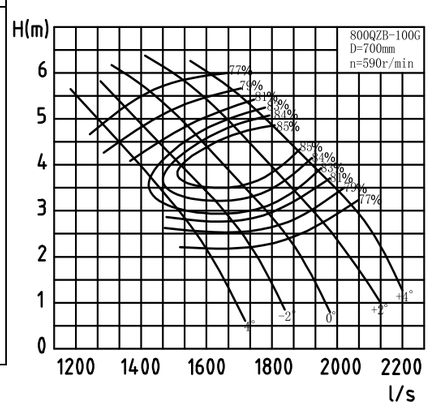
800QZB-70D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	4310.3	1197.3	5.22	490	78.33	90	78.49	700
	4369.5	1213.7	4.45		64.21		82.79	
	5391.9	1497.8	3.19		58.42		80.49	
-4°	4280.8	1189.1	5.58		85.37	110	76.39	
	5070.8	1408.6	4.55		75.14		83.79	
	5755.3	1598.7	3.17		62.08		80.49	
-2°	4555.4	1265.4	5.57		88.30		78.49	
	5379.3	1494.2	4.60		80.38		83.99	
	6059.5	1683.2	3.19		65.65		80.4	
0°	4682.1	1300.6	5.72		93.19		78.49	
	5594.7	1554.1	4.81		85.85		85.59	
	6367.9	1768.9	3.32		71.75		80.04	
+2°	4770.9	1325.2	5.81		96.37		78.49	
	5772.2	1603.4	4.91		90.83		85.19	
	6583.4	1828.7	3.42		76.40		80.49	
+4°	6025.7	1673.8	5.17		103.02	132	80.49	
	6566.5	1824.0	4.30		91.22		84.59	
	6938.3	1927.3	3.61		84.53		82.49	



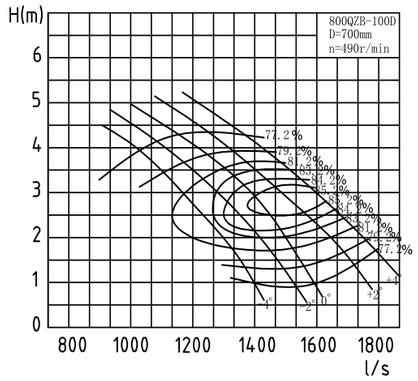
800QZB-100G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	4261	1183.6	5.62	590	82.76	90	78.9	700
	5171	1436.4	3.67		61.7		84	
	5711	1586.4	2.34		46.35		78.9	
-2°	4591	1275.3	5.82		92.33	110	78.9	
	5351	1486.4	4.29		73.79		84.9	
	6221	1728.1	2.29		49.19		78.9	
0°	4971	1380.8	5.95		102.19		78.9	
	6091	1691.9	3.78		73.77		85.2	
	6701	1861.4	2.39		55.52		78.9	
+2°	5391	1497.5	5.98		111.37	132	78.9	
	6461	1794.7	3.99		82.59		85.2	
	7121	1978.1	2.61		64.39		78.9	
+4°	6001	1666.9	5.67		117.55		78.9	
	6921	1922.5	3.98		88.33		85.1	
	7511	2086.4	2.87		74.64		78.9	



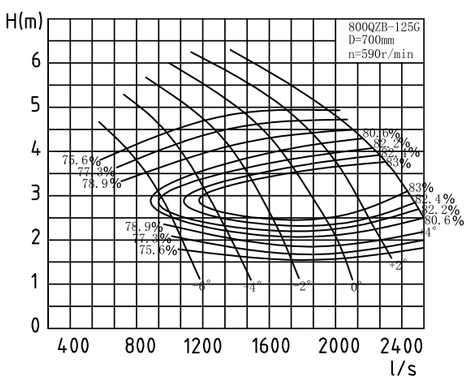
800QZB-100D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	3601	1000.2	4.01	490	50.29	55	78.4	700
	4369	1213.7	2.62		37.44		83.6	
	4826	1340.5	1.67		28.18		78.4	
-2°	3879	1077.6	4.15		56.1	75	78.4	
	4522	1256.0	3.06		44.77		84.5	
	5257	1460.2	1.63		29.91		78.4	
0°	4200	1166.8	4.25		62.09		78.4	
	5147	1429.7	2.70		44.76		84.8	
	5662	1527.9	1.70		33.75		78.4	
+2°	4555	1265.4	4.27		67.66	90	78.4	
	5460	1516.5	2.85		50.10		84.8	
	6017	1671.5	1.86		39.13		78.4	
+4°	5071	1408.6	4.05		71.41		78.4	
	5848	1624.5	2.84		53.58		84.7	
	6347	1763.0	2.05		45.36		78.4	



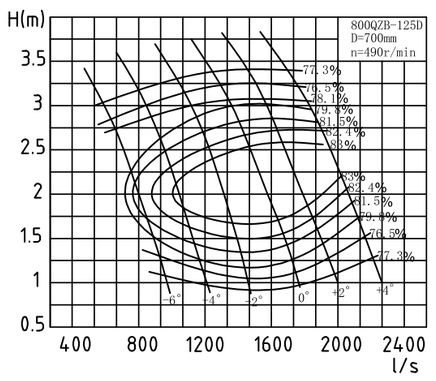
800QZB-125G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	2798	777.2	3.97	590	39.94	45	76	700
	3583	995.3	2.63		31.39		82.2	
	3745	1040.3	2.3		29.14		81	
-4°	3259	905.3	4.74		56.66	75	74.4	
	4573	1270.3	2.73		40.66		84	
	5034	1398.3	1.81		31.35		79.7	
-2°	4688	1302.2	4.45		70.63	90	80.6	
	5642	1567.2	2.82		51.78		84	
	6006	1668.3	2.12		42.52		82	
0°	5743	1595.3	4.35		83.63	110	80	
	6607	1835.3	3.08		66.18		84	
	7291	2025.3	1.97		49.16		81.5	
+2°	6326	1757.2	4.72		101.79	132	80	
	7453	2070.3	3.21		77.78		84	
	8018	2227.2	2.36		64.68		80	
+4°	7849	2180.3	4.29		113.39		81	
	8418	2338.3	3.55		98.27		83	



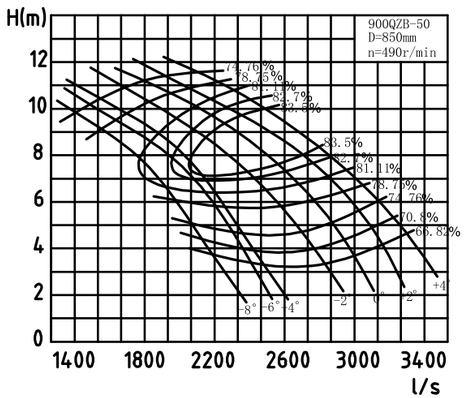
800QZB-125D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	2364	656.8	2.74	490	26.01	30	70.5	700
	3028	841	1.78		19.14		81.5	
	3165	879	1.55		17.88		79.8	
-4°	2754	765	3.29		34.41	37	74	
	3864	1073.4	1.86		24.57		84	
	4254	1181.6	1.20		19.24		78.5	
-2°	3961	1100.4	3.08		46.44	55	74	
	4767	1324.3	1.92		31.28		84	
	5075	1409.7	1.42		25.85		81.5	
0°	4853	1348.0	3.01		50.81		78.5	
	5583	1550.8	2.11		39.97		84	
	6161	1711.4	1.31		30.27		81	
+2°	5345	1484.9	3.28		62.26	75	79	
	6298	1749.4	2.20		46.97		84	
	6775	1882.0	1.59		39.26		79.6	
+4°	6632	1842.3	2.97		69.30		80	
	7113	1975.9	2.44		59.76		82.4	



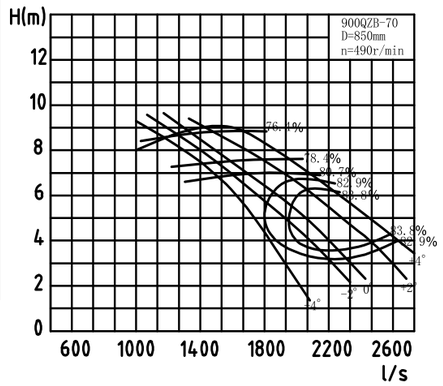
900QZB-50

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-8°	5161.6	1433.8	9.69	490	182.41	250	70.7	850
	6473.1	1798.1	7.86		170.89		81.1	
	7596.6	2110.2	4.62		135.34		74.7	
-6°	5659.7	1572.1	9.81		201.29		66.7	
	7140.4	1983.4	7.86		184.41		82.9	
	8579	2383.1	3.87		135.71		75.1	
-4°	5638.9	1566.4	10.35		212.82		70.7	
	7761.8	2156.1	8.10		203.61		84.1	
	9187.7	2552.1	4.41		156.24		74.7	
-2°	6559	1821.9	10.28		233.47	280	67.1	
	7995.5	2221.0	8.34		215.43		84.3	
	10039.3	2788.7	3.95		161.15		78.6	
0°	7458.3	2071.8	10.23		256.42	315	70.7	
	8883.2	2467.6	8.38		240.49		84.3	
	10571.3	2936.5	4.46		181.79		81.0	
+2°	7403.0	2056.4	10.94		280.39	355	66.7	
	9351.1	2597.5	8.59		160.10		84.1	
	11358.4	3155.1	4.06		188.43		78.6	
+4°	7859.5	2183.2	11.24		305.82		70.7	
	9830.8	2730.8	8.83		281.07		84.1	
	11775.0	3270.8	4.92		223.30		78.6	



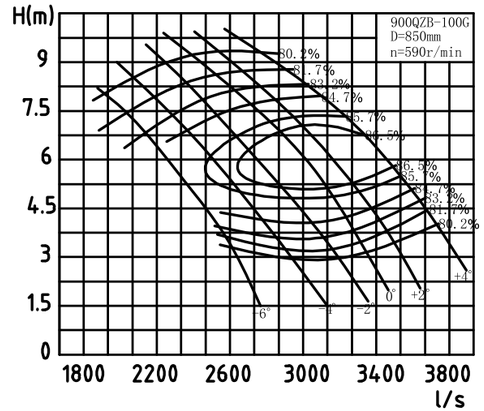
900QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	4501	1250.3	8.1	490	134.02	160	74.1	850
	5801	1611.4	6.02		115.52		82.4	
	6771	1880.8	3.76		85.26		81.5	
-2°	5191	1441.9	7.86		143.23		77.1	
	6621	1839.2	5.53		120.55		82.8	
	7411	2058.6	4.23		110.90		77.6	
0°	6511	1808.6	6.45		139.73	185	80.2	
	7201	2000.3	5.44		127.39		83.7	
	8251	2291.9	3.37		94.44		81.9	
+2°	7561	2100.3	6.03		147.55		84.1	
	8421	2339.2	4.74		128.61		84.5	
	8791	2441.9	4.04		115.01		84.1	
+4°	7201	2000.3	6.89		166.47		81.2	
	8651	2403.0	5.37		148.29		85.4	
	9301	2583.6	4.31		128.78		84.9	



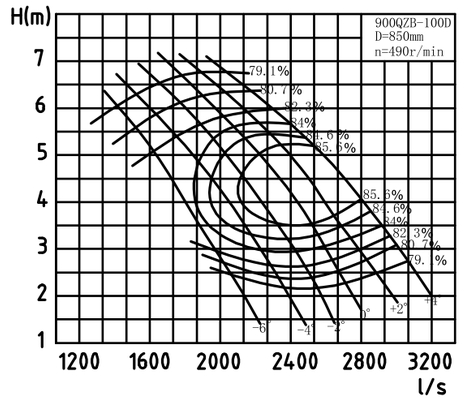
900QZB-100G

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	7157	1988.1	7.75	590	185.16	200	80.1	850
	8329	2313.6	5.4		144.58		84.8	
	9396	2610	3.35		107.26		81.6	
-4°	8497	2360.3	7.05		195.21	220	80.1	
	9328	2591.1	5.49		162.69		85.8	
	10464	2906.7	3.2		114.11		83.6	
-2°	8281	2300.3	8.7		240.43	250	80.1	
	9662	2683.9	6.41		195.31		86.4	
	11394	3165.0	3.02		117.28		81.6	
0°	9694	2692.8	7.81		243.74	315	84.6	
	10995	3054.2	5.65		195.50		86.6	
	11646	3235.0	4.34		162.92		84.6	
+2°	11196	3110.0	6.74		248.86		84.6	
	11529	3202.5	5.60		202.01		87.1	
	12478	3466.1	4.61		185.38		84.6	
+4°	12463	3378.6	6.54		263.94		82.6	
	12496	3471.1	5.96		234.33		86.6	
	13111	3641.9	4.99		210.79		82.1	



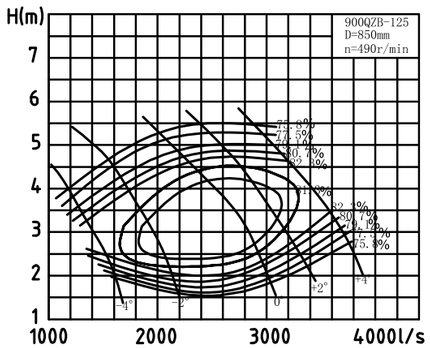
900QZB-100D

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	5826	1618.3	5.11	490	102.79	160	79	850
	6780	1883.3	3.56		78.55		83.9	
	7648	2124.5	2.21		58.47		79	
-4°	6917	1921.3	4.65		108.81		80.6	
	7593	2109.2	3.62		88.48		84.8	
	8518	2366.0	2.11		60.97		80.6	
-2°	6741	1872.4	5.74		130.81		82.2	
	7865	2184.7	4.23		106.45		85.2	
	9275	2576.3	1.99		61.45		80.6	
0°	7891	2191.9	5.15		132.08		82.2	
	8950	2486.1	3.73		106.18		85.7	
	9480	2633.3	2.86		90.12		83.9	
+2°	9114	2531.5	4.45		134.88	185	82.2	
	9385	2606.8	3.69		109.58		86.3	
	10157	2821.4	3.04		102.54		82.0	
+4°	9901	2750.2	4.31		142.62		80.6	
	10172	2825.5	3.93		127.41		85.6	
	10672	2964.5	3.29		118.90		81.6	



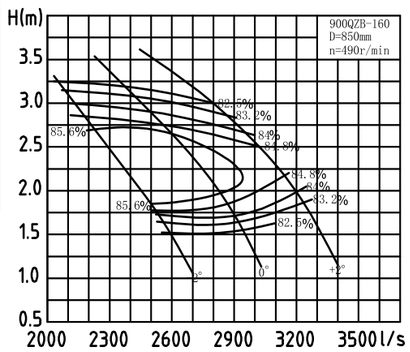
900QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	4096	1137.8	4.18	490	61.74	90	75.7	850
	4566	1268.3	3.66		57.77		79	
	5505	1529.2	2.61		47.81		82.2	
	5646	1568.3	2.33		44.67		80.6	
-4°	5617	1137.8	4.16		79.11		80.6	
	6171	1268.3	3.61		73.28		83	
	6999	1529.2	2.61		59.53		83.9	
	7334	1568.3	2.20		53.71		82.2	
-2°	6975	1560.3	4.66		109.98	132	80.6	
	7554	1714.2	4.02		99.83		83	
	8688	1944.2	2.61		73.87		83.9	
	9023	2037.2	2.16		64.86		82.2	
0°	8936	2482.2	4.17		122.46	160	83	
	10031	2786.4	3.21		103.30		85.1	
	10293	2859.2	2.77		92.83		83.9	
	10653	2959.2	2.39		84.67		82.2	
+2°	10265	2851.4	4.20		141.67	185	83	
	10571	2936.4	3.93		135.08		83.9	
	11429	3174.7	3.03		112.70		83.9	
	11787	3274.2	2.61		102.25		82.2	
+4°	12065	3351.4	4.17		166.91		82.2	
	12673	3520.3	3.59		149.55		83.0	
	13199	3666.4	3.11		139.01		80.6	
	13809	3838.8	2.47		123.99		75.7	



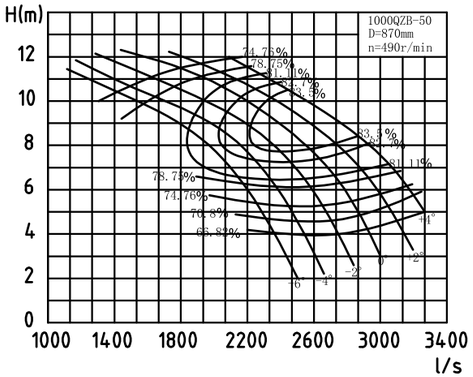
900QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	7316	2032.2	3.29	490	79.76	90	82.4	850
	8493	2359.2	2.28		61.73		85.8	
	9235	2565.3	1.61		49.05		83.1	
0°	8569	2380.3	3.16		89.73	110	82.4	
	9850.6	2736.3	2.29		71.24		86.6	
	10477	2910.3	1.67		57.69		83.1	
+2°	9969.4	2769.3	3.04		100.43	132	82.4	
	10657	2960.3	2.68		92.24		84.6	
	11463.4	3184.3	2.05		77.36		83.1	



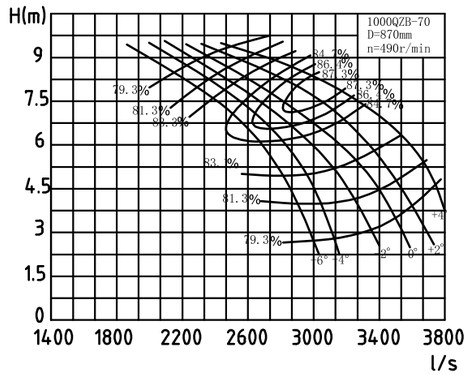
1000QZB-50

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	5786.9	1607.5	10.53	490	222.49	280	74.6	870
	7656.4	2126.8	8.23		207.27		82.8	
	8531.2	2369.8	6.24		184.7		78.5	
-4°	6046.5	1679.6	10.83		239.08		74.6	
	8215.5	2282.1	8.50		226.4		84.0	
	9043.1	2512.0	6.85		208.56		80.9	
-2°	7032.9	1953.6	10.77		262.58	315	78.5	
	8796.9	2443.6	8.80		250.96		84.0	
	9807.0	2724.2	6.80		224.52		80.9	
0°	7463.1	2073.1	11.11		287.42	355	78.5	
	9525.2	2645.9	8.78		270.47		84.2	
	10504.4	2917.9	6.87		242.95		80.9	
+2°	7937.9	2205.0	11.46		315.31		78.5	
	10026.6	2785.2	8.99		292.19		84.0	
	11112.8	3086.9	6.91		261.87		80.9	
+4°	10541.1	2928.1	9.19		317.08		80.9	
	11231.2	3119.8	8.06		299.24		83.3	
	11706.0	3251.7	7.15		285.29		84.0	



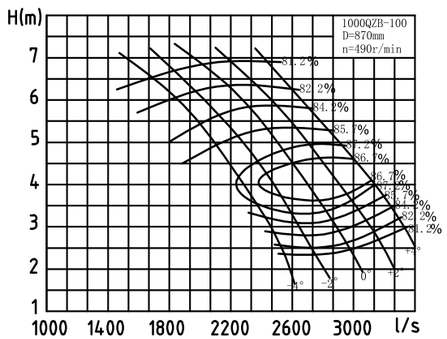
1000QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	7848	2180	8.3	490	224.26	280	79.2	870
	9108	2530	6.83		200.56		84.6	
	10080	2800	5.04		166.65		83.2	
-4°	8064	2240	8.56		237.64		79.2	
	9540	2650	6.97		210.15		86.3	
	10584	2940	5.04		174.98		83.2	
-2°	8280	2300	8.77		249.98	315	79.2	
	10116	2810	7.04		225.06		86.3	
	11340	3150	5.04		187.47		83.2	
0°	8820	2450	8.77		259.72		81.2	
	10548	2930	7.04		243.12		87.2	
	12024	3340	5.04		199.1		83.1	
+2°	9288	2580	8.77		270.17	355	82.2	
	10872	3020	7.37		256.1		87.2	
	12528	3480	5.04		208.61		82.6	
+4°	10261	2850.3	8.77		289.99		84.6	
	11340	3150	7.92		280.83		87.2	
	13356	3710	5.04		225.11		81.6	



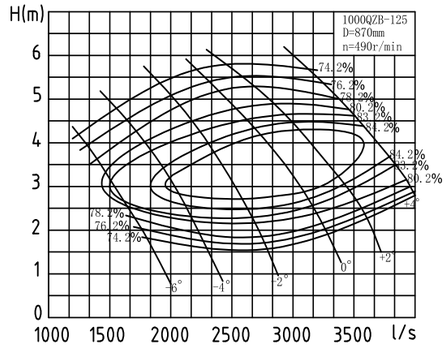
1000QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	6783	1884.2	5.97	490	138.82	160	77.5	870
	8137	2260.3	4.04		106.14		84.5	
	9224	2562.2	2.26		73.55		79.5	
-2°	7957	2210.3	5.33		138.46		79.5	
	8893	2470.3	4.04		114.64		85.5	
	9897	2749.3	2.42		82.35		83.5	
0°	7921	2200.3	6.31		171.30	200	79.50	
	9649	2680.3	4.04		124.38		85.5	
	10646	2957.2	2.54		92.94		79.5	
+2°	9192	2553.3	5.61		168.31		77.5	
	10427	2896.4	4.04		134.40		85.50	
	11472	3186.4	2.54		102.71		82.5	
+4°	10380	2883.3	5.04		168.77		79.5	
	11219	3116.4	4.04		144.60		85.50	
	11953	3320.3	3.04		124.78		84.5	



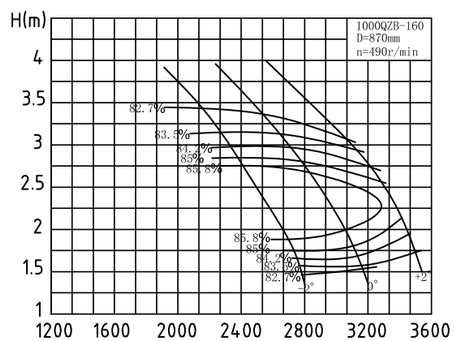
1000QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	4910	1363.9	3.74	490	65.47	75	78	870
	5585	1551.4	2.95		56.68		82	
	6222	1728.3	2.14		48.78		78	
-4°	5797	1610.3	4.54		93.95	110	78	
	7201	2000.3	3.12		72.25		84	
	8029	1130.3	1.97		56.68		80	
-2°	7529	2091.4	4.79		125.32	160	80	
	8965	2490.3	3.13		93.93		84	
	9865	2740.3	1.92		67.92		80	
0°	8954	2487.2	4.95		153.87	200	80	
	10755	2987.5	3.27		116.14		85	
	11629	3230.3	2.16		89.52		80	
+2°	10326	2868.3	4.91		176.02	220	80	
	11935	3315.3	3.39		135.03		84	
	12889	3580.3	2.47		112.78		80	
+4°	12457	3460.3	4.70		203.71	250	80	
	13555	3765.3	3.75		171.16		83	
	14149	3930.3	3.17		157.44		80	



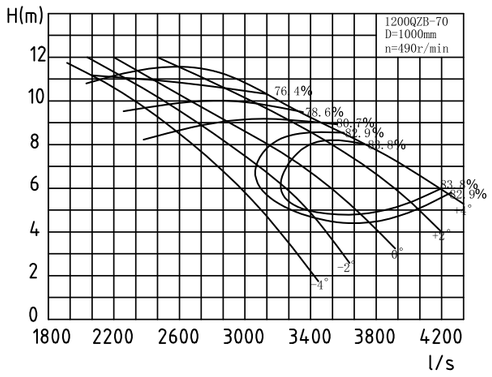
1000QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	7842.8	2178.5	3.45	490	89.42	110	82.6	870
	9104.5	2529	2.39		68.88		86	
	9899.9	2750	1.69		54.96		83.4	
0°	9168	2551.7	3.31		100.49	132	82.6	
	10559.8	2933.3	2.40		79.82		86.8	
	11231.3	3119.8	1.75		64.62		83.3	
+2°	10687.2	2968.7	3.19		112.62		82.6	
	11424.3	3173.4	2.81		103.40		84.8	
	12288.8	3413.5	2.15		86.63		83.4	



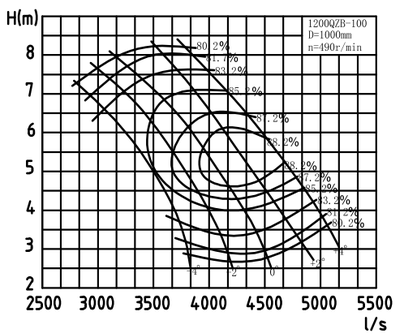
1200QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	7337	2038	11.21	490	302.22	400	74.1	1000
	9456	2626.6	8.34		260.48		82.4	
	11037	3065.8	5.21		192.21		81.5	
-2°	8461	2350.4	10.88		322.99		77.1	
	10792	2997.8	7.66		271.82		82.8	
	12080	3355.5	5.86		250.06		77.6	
0°	10613	2948.0	8.93		315.10		80.2	
	11738	3260.5	7.53		287.70		83.7	
	13449	3735.9	4.67		213.38		81.9	
+2°	12324	3423.5	8.35		333.18		84.1	
	13726	3812.8	6.56		290.46		84.5	
	14329	36980.4	5.60		259.77		84.1	
+4°	11738	3260.5	9.54		375.42	450	81.2	
	14101	3917.0	7.44		334.39		85.4	
	15161	4211.3	5.97		290.40		84.9	



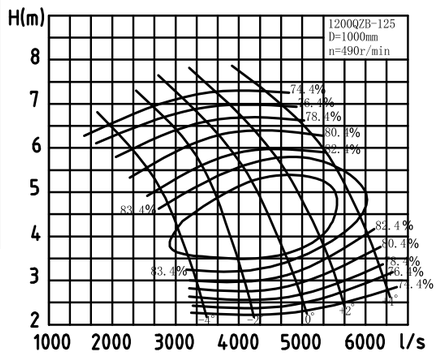
1200QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	11305	3140.3	6.47	490	234.99	280	81.8	1000
	13461	3739.2	5.04		216.23		85.52	
	13645	3790.3	3.21		146.14		84.8	
-2°	11953	3320.3	6.88		264.17	315	81.8	
	13461	3739.2	5.15		218.95		86.3	
	14905	4140.3	3.11		254.67		84.8	
0°	13866	3851.7	6.04		264.72		81.8	
	14566	4046.4	5.15		236.91		86.3	
	16021	4450.3	3.27		174.76		86.2	
+2°	13825	3840.3	7.25		321.92	400	81.8	
	15449	4291.4	5.47		266.84		86.3	
	17029	4730.3	3.57		202.73		84.8	
+4°	15625	4340.3	6.49		323		81.8	
	16553	4598.1	5.46		285.38		86.3	
	17965	4990.3	3.93		235.37		85.5	



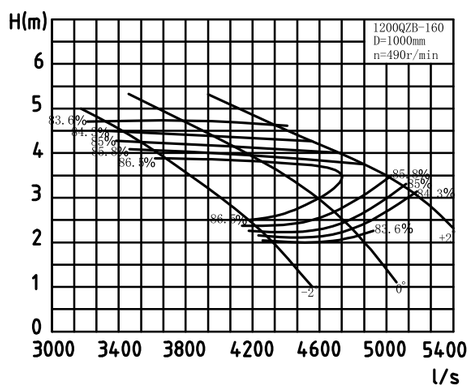
1200QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	10044	2790	4.99	490	164.07	200	80.3	1000
	11196	3110	3.88		140.57		84.3	
	12168	3380	2.71		112.16		83.3	
-2°	11880	3300	5.94		233.62	280	80.3	
	13860	3850	4.02		180.26		84.3	
	14976	4160	2.64		134.47		82.3	
0°	15012	4170	5.37		260.60	315	80.3	
	16308	4530	4.24		223.65		84.3	
	17676	4910	2.91		174.86		84.3	
+2°	17028	4730	5.49		305.79	355	78.3	
	18108	5030	4.53		265.26		84.3	
	19872	5520	3.12		216.07		83.3	
+4°	19656	5460	5.75		374.14	450	78.3	
	20592	5720	5.01		337.51		83.3	
	21852	6070	3.96		301.32		82.3	



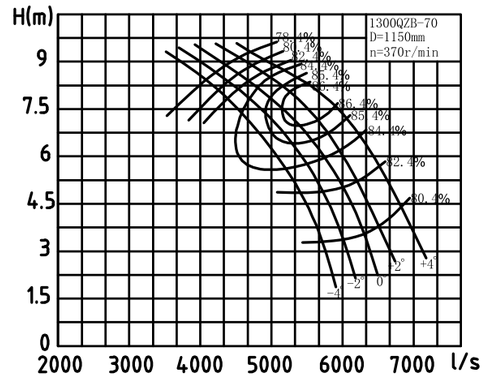
1200QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	12032	3342.2	4.63	490	181.89	200	83.5	1000
	13969	3880.3	3.33		146.42		86.7	
	15387	4274.2	2.15		108.32		83.5	
0°	14441	4001.4	4.3		201	250	83.5	
	16223	4506.4	3.21		163.93		86.7	
	17324	4812.2	2.25		127.59		84.2	
+2°	16403	4556.4	4.25		227.64	280	83.2	
	18113	5031.4	3.47		200		85.7	
	19059	5294.2	2.67		165.04		83.5	



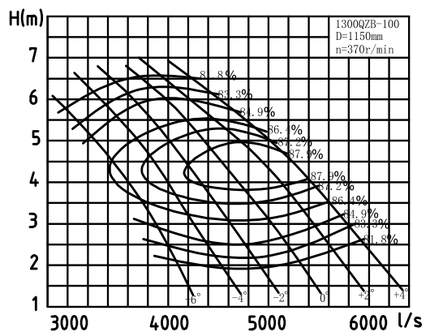
1300QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	14891	4236.4	8.43	370	425.63	500	80.3	1150
	17051	4736.4	7.04		383.28		85.3	
	20221	5616.9	3.85		264.38		80.3	
-2°	14766	4101.7	8.89		456.41	560	78.3	
	18096	5026.7	7.14		412.53		85.3	
	21266	5907.2	3.97		286.67		80.3	
0°	15761	4378.1	8.89		475.04		80.3	
	18831	5230.8	7.47		443.90		86.3	
	22261	6183.6	4.22		318.93		80.3	
+2°	17336	4815.6	8.61		482.09		80.3	
	19406	5390.6	7.63		467.23		86.3	
	23051	6403.1	4.40		344.29		84.3	
+4°	16941	4705.8	9.34		536.41	600	80.3	
	20271	5630.8	8.02		512.96		86.3	
	24256	6737.8	4.76		391.85		80.3	



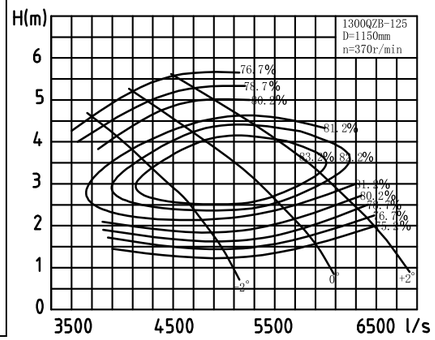
1300QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	10621	2950.3	5.87	370	208.29	250	81.7	1150
	12313	3420.3	4.53		176.62		86.3	
	13897	3860.3	3.08		138.23		84.8	
	15301	4250.3	1.33		82.55		68.1	
-4°	11881	3300.3	6.03		236.71	280	82.6	
	13861	3850.3	4.53		196.99		87.1	
	14977	4160.3	3.28		155.82		86.3	
	16993	4720.3	1.33		92.34		67.6	
-2°	12889	3580.3	6.18		261.25	315	83.2	
	14941	4150.3	4.53		210.64		87.8	
	16525	4590.3	3.13		164.11		86.3	
	18361	5100.3	1.33		100.51		67.1	
0°	14617	4060.3	5.87		276.15		84.8	
	16201	4500.3	4.53		228.39		87.8	
	18361	5100.3	2.80		166.12		84.8	
	19873	5520.3	1.33		110.42		66.1	
+2°	12241	4500.3	5.48		280.85		86.3	
	16201	4900.3	4.53		248.68		87.8	
	17641	3400.3	3.03		119.81		84.8	
	21421	5950.3	1.33		120.84		65.1	
+4°	17101	5150.3	4.73		272.85		87.8	
	18541	5220.3	4.53		264.91		87.8	
	18793	4750.3	3.03		170.55		83.2	
	22861	6350.3	1.33		133.03		63.1	



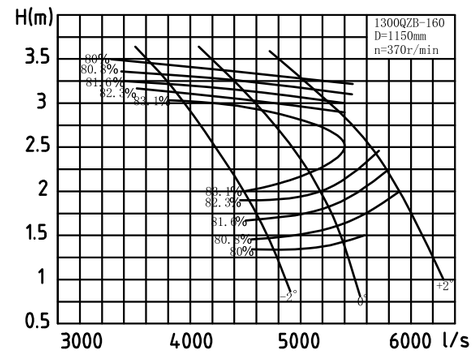
1300QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	14329	3980.3	4.04	370	191.12	250	75.6	1150
	15013	4170.3	3.54		173.44		80.1	
	15787	4385.3	3.04		155.77		82.1	
	16741	4650.3	2.54		141.48		84.1	
	17209	4780.3	2.04		119.85		83.6	
	17785	4940.3	1.54		99.23		82.6	
0°	17245	4790.3	4.04		228.62	280	73.6	
	18109	5030.3	3.54		206.72		78.1	
	19009	5280.3	3.04		188.66		81.1	
	19837	5510.3	2.54		169.88		83.6	
	20593	5720.3	2.04		147.06		84.6	
	21241	5900.3	1.54		121.71		83.1	
+2°	19837	5510.3	4.04		262.33	315	75.1	
	20701	5750.3	3.54		237.69		80.1	
	21565	5990.3	3.04		216.60		82.6	
	22465	6240.3	2.54		194.54		84.1	
	23329	6480.3	2.04		173.22		83.3	



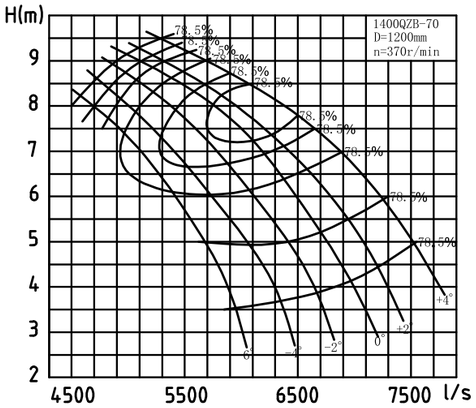
1300QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	14047.7	3902.1	3.37	370	160.1	185	80.7	1150
	16040.9	4455.8	2.37		123.7		84.2	
	17522.8	4867.5	1.67		99.6		80.7	
0°	16593.5	4609.3	3.22		181.1	220	80.7	
	18628.1	5174.5	2.38		145.5		83.4	
	19804.3	5501.2	1.73		116.4		80.7	
+2°	19271.3	5353.1	3.08		200.9	250	80.7	
	20801.4	5778.2	2.57		177.9		82.2	
	21945.4	6096	2.00		148.8		80.7	



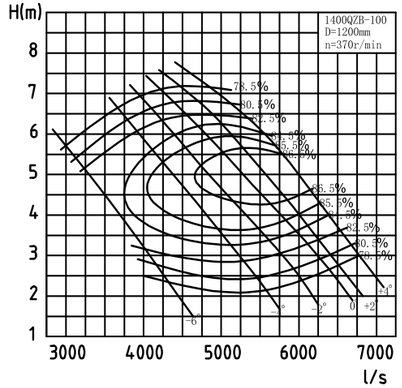
1400QZB-70

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	16228.6	4508	8.4	370	463.3	500	81.1	1200
	17639.6	4899.9	7.6		439.8		83.7	
	19836.9	5510.2	5.7		373.1		84.2	
	21241.5	5900.4	3.9		283		81.1	
-4°	16698.3	4638.4	8.8		495.7	560	81.1	
	18787.1	5218.6	7.5		458.1		83.7	
	21050.3	5847.3	5.7		396		85.0	
	22667.4	6296.5	4.0		310.4		81.1	
-2°	17170.0	4769.4	9.1		529.3	560	81.1	
	19184.5	5329.0	8.1		501.6		83.6	
	22284.9	6190.2	5.7		419.7		85.0	
	23829.8	6619.4	4.1		335.6		81.1	
0°	17654.5	4904.0	9.3		557.7	630	81.1	
	21420.0	5950.0	7.6		524.7		83.2	
	23638.5	6566.3	5.7		447.3		85.9	
	24975.1	6937.5	4.3		370.7		81.1	
+2°	18022.1	5006.1	9.4		576.2	710	81.1	
	20680.5	5744.6	8.4		558.7		85.9	
	22338.0	6205.0	7.5		539.1		85.7	
	25827.3	7174.2	4.6		403.1		81.1	
+4°	19008.1	5280.0	9.8		629.4	710	81.1	
	21830.1	6063.9	8.9		623.5		85.1	
	23944.5	6651.3	7.5		577.9		85.7	
	27178.8	7549.7	4.9		433.8		81.1	



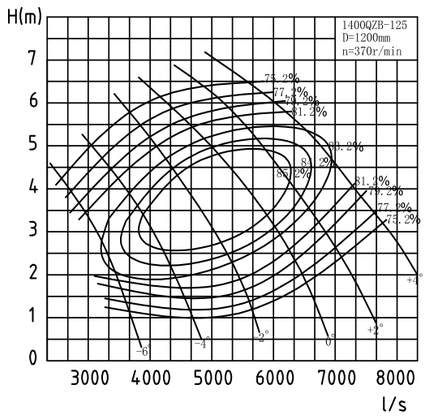
1400QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	10181	2828.1	6.08	370	260.33	280	78.4	1200
	12636	3510	4.24		201.22		84.4	
	14689	4080.3	2.75		195.12		80.4	
	16561	4600.3	2.64		152.29		80.4	
-4°	14977	4160.3	5.55		268.37		80.4	
	16777	4660.3	4.08		225.29		84.4	
	18613	5170.3	3.79		218.57		85.4	
	19801	5500.3	2.68		180.22		80.4	
-2°	15301	4250.3	6.38		322.72	355	80.4	
	17065	4740.3	5.04		271.31		82.4	
	20521	5700.3	3.44		228.18		86.4	
	21601	6000.3	2.54		191.12		84.4	
0°	17715	4920.3	5.75		336.79		78.4	
	18145	4740.3	5.34		305.60		86.4	
	19441	5700.3	4.44		272.36		82.4	
	22969	6000.3	2.81		224.72		86.4	
+2°	17785	4940.3	6.60		388.10	400	82.4	
	19009	5280.3	5.79		351.13		86.4	
	22357	5940.3	4.11		277.38		85.4	
	21385	6210.3	3.34		247.23		82.4	
+4°	20341	5650.3	5.89		386.73		78.4	
	21457	5960.3	5.14		347.96		86.4	
	22429	6230.3	4.45		314.91		86.4	
	24193	6270.3	3.17		266.89		84.4	



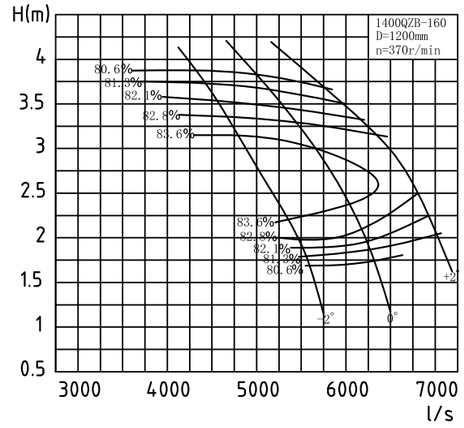
1400QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	8583.4	2384.3	4.57	370	142.41	185	75.1	1200
	11542.6	3206.3	2.83		107.36		83.1	
	12586.5	3496.3	1.9		87.13		75.1	
-4°	10441	2900.3	5.28		200.04	250	75.1	
	13515.4	3754.3	3.64		157.72		85.1	
	16528.6	4591.3	1.46		88.05		75.1	
-2°	14152.6	3931.3	5.39		262.78	315	75.1	
	16355.8	4543.3	4.05		212.27		85.1	
	20067.4	5574.3	1.51		110.63		79.1	
0°	17399.4	4833.2	5.24		306.34	355	75.1	
	21025.0	584.3	3.50		231.81		86.6	
	23606.2	6557.3	1.76		151.35		81.1	
+2°	18386.2	5107.3	6.03		402.11	500	75.1	
	22155.4	6154.3	4.29		304.49		85.1	
	26216.2	7282.3	2.08		197.50		75.1	
+4°	24358.6	6766.3	5.01		401.04		75.1	
	26565.4	7379.3	3.91		336.78		84.1	
	28941.4	8039.3	2.68		281.92		81.1	



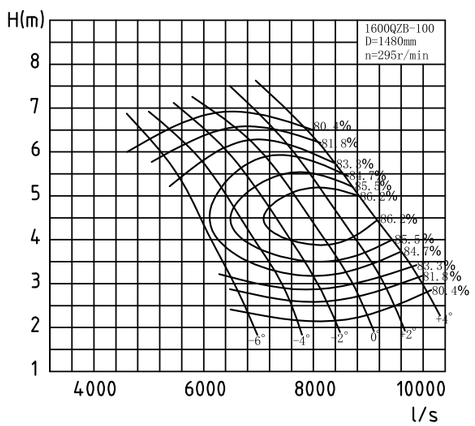
1400QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	15961.8	4433.8	3.72	370	199.45	250	81.2	1200
	18226.4	5062.9	2.63		154.75		84.6	
	19910.2	5530.6	1.87		125.43		81.2	
0°	18854.3	5237.3	3.56		225.48		81.2	
	21166	5879.4	2.64		181.87		83.9	
	22502.4	6250.7	1.94		147.03		81.2	
+2°	21896.8	6082.4	3.41		250.85	315	81.2	
	23635.3	6565.4	2.85		222.34		82.7	
	24935.2	6926.4	2.23		187.12		81.2	



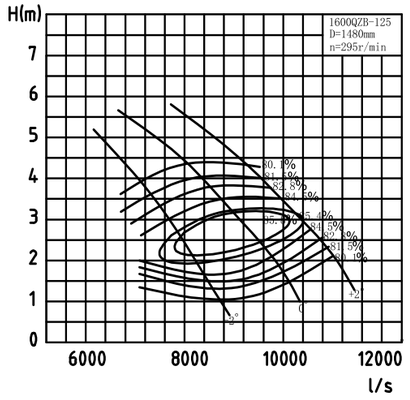
1600QZB-100

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	20181	5605.8	5.3	295	349.8	400	83.3	1480
	21984.6	6106.8	4.06		287		84.7	
	23690.6	6580.7	3.27		253.7		83.3	
-4°	21424.4	5951.2	5.87		411.6	450	83.3	
	24622.7	6839.6	4.13		323.9		85.5	
	26888.9	7469.1	2.93		257.9		83.3	
-2°	22932.5	6370.2	6.16		461.8	500	83.3	
	26832.5	7450.3	4.23		359.6		86	
	29269.4	8130.4	2.96		283.6		83.3	
0°	24569.9	6825	6.3		506.4	560	83.3	
	29019.6	8061	4.24		389.1		86.2	
	31371.1	8714.2	3		308.1		83.3	
+2°	26826.4	7451.8	6.33		555.2	630	83.3	
	30778.4	8549.6	4.46		432.4		86.6	
	33224	9228.9	3.24		352.6		83.3	
+4°	29322.1	8145	6.1		585.6		83.3	
	32976.9	9160.2	4.48		466.5		86.3	
	34983.6	9717.7	3.55		405.8		83.3	



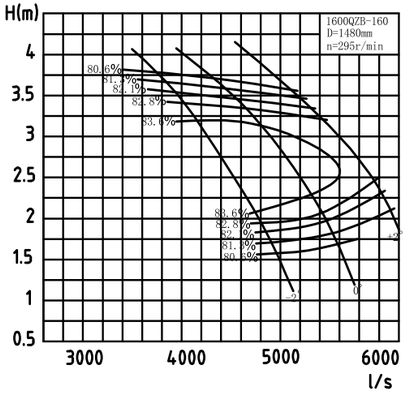
1600QZB-125

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	24359.3	6766.5	4.24	295	341.08	400	75.6	1480
	25522.1	7089.5	3.72		309.51		80.1	
	26837.9	7455	3.19		277.97		82.1	
	28459.7	7905.5	2.67		252.97		84.1	
	29255.3	8126.5	2.14		252.45		83.6	
	30234.5	8398.5	1.62		177.5		82.6	
0°	29316.5	8143.5	4.24		408	500	73.6	
	30785.3	8551.5	3.72		368.91		78.1	
	32315.3	8976.5	3.19		336.69		81.1	
	33722.9	9367.5	2.67		302.81		83.6	
	35008.1	9724.5	2.14		282.42		84.6	
	36109.7	10030.5	1.62		217.17		83.1	
+2°	33722.9	9367.5	4.24		468.19	560	75.1	
	35191.7	9775.5	3.72		424.20		80.1	
	36660.5	10183.5	3.19		386.56		82.6	
	38190.5	10608.5	2.67		347.18		84.1	
	39659.3	11016.5	2.14		309.13		83.3	



1600QZB-160

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-2°	23878.9	3901.8	3.58	295	287.33	355	81.3	1480
	27266.7	4455.3	2.52		222.26		84.7	
	29785.7	4866.9	1.79		180.27		81.3	
0°	28206	4608.8	3.42		324.29	400	81.3	
	31664.3	5173.9	2.53		261.25		84.0	
	33663.6	5500.6	2.86		211.59		81.3	
+2°	32757.6	5352.6	3.28		361.27	450	81.3	
	35358.4	5777.5	2.74		320.27		83.0	
	37303.1	6095.3	2.14		269.33		81.3	



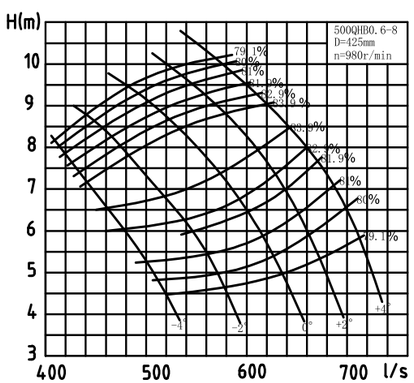
Performance parameters and type spectrum of mixed flow pump QHB

Performance parameters of fixed impeller submersible mixed flow pump (QHB) type

model	flow m³/h	flow l/s	head (m)	speed (r/min)	power(kw) Shaft power	power(kw) Motor power	efficiency η (%)
350QHB0.1-5	279	77.5	6.36	1450	6.4	11	74.8
	360	100	5.01		6.1		79.4
	406	113.3	3.66		5.4		74.3
350QHB0.2-11	469	130.3	13.76	980	24.5	37	71.6
	720	200	11.01		27.4		78.6
	837	232.5	8.86		27.9		72.1
350QHB0.3-28	787	218.6	30.46	740	83.6	110	78
	1080	300	28.01		99.8		82.5
	1311	364.2	22.86		108.9		74.9
350QHB0.3-40	861	239.2	44.06	980	132.4	185	78
	1080	300	40.01		142.6		82.5
	1498	416.1	32.06		170.1		76.9
400QHB0.3-10	714.2	198.4	14.76	980	37.1	45	77.2
	1080	300	10.01		35.4		82.8
	1297.7	360.5	6.46		29.5		77.2
500QHB0.5-32	1264	351.1	36.46	740	171.2	250	73.3
	800	500	32.01		197.4		79.5
	2396	665.6	25.06		219.5		74.5
500QHB0.6-35	1443	400.8	39.06	590	208.6	310	73.6
	2160	600	35.01		260.7		79
	2752	764.4	28.06		275.3		76.4
700QHB0.9-13	2331	647.5	16.76	740	138.1	185	77
	3240	900	13.01		141.4		81.1
	3870	1075	9.86		135.5		76.6
700QHB1.1-20	2738	760.6	25.56	740	251.8	315	75.7
	3960	1100	20.06		266.4		81
	4798	1332.8	15.66		265.4		77.1

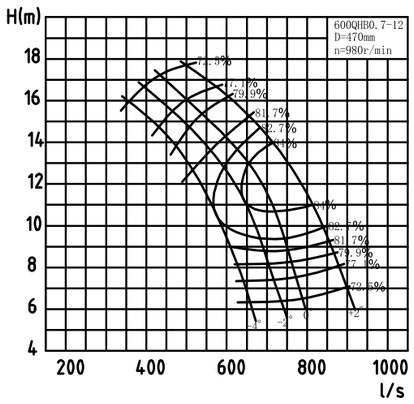
500QHB0.6-8

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1495	415.3	8.04	980	40.5	55	80.8	425
	1621	450.3	6.84		36		83.9	
	1801	500.3	5.24		31.8		80.8	
-2°	1621	450.3	8.54		46		81.9	
	1801	500.3	7.34		42.9		83.9	
	1959	544.2	6.04		39.3		81.9	
0°	1729	480.3	9.54		56.2	75	80	
	1981	550.3	8.04		51.7		83.9	
	2197	610.3	6.04		44.7		80.8	
+2°	1959	544.2	9.54		62.2		81.9	
	2161	600.3	8.24		57.8		83.9	
	2319	644.2	6.84		53.5		80.8	
+4°	2053	570.3	10.01		70.0		80.2	
	2269	630.3	8.74		64.4		83.9	
	2467	685.3	7.04		59.2		80	



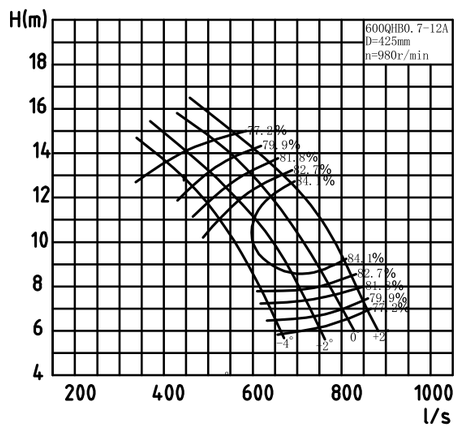
600QHB0.7-12

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1621	450.3	14.34	980	82.12	90	77.2	470
	2089	580.3	10.24		70.56		81.7	
	2305	640.3	7.46		60.78		77.2	
-2°	1711	475.3	15.24		92.12	110	77.2	
	2323	645.3	11.04		84.08		83.2	
	2575	715.3	7.54		68.63		77.2	
0°	1847.8	813.3	15.94		104.05	132	77.2	
	2459.8	683.3	12.04		96.05		84.1	
	2845	790.3	7.69		77.34		77.2	
+2°	2053	570.3	16.84		122.13		77.2	
	2809	780.3	12.04		109.68		84.1	
	3187	885.3	7.94		89.45		77.2	



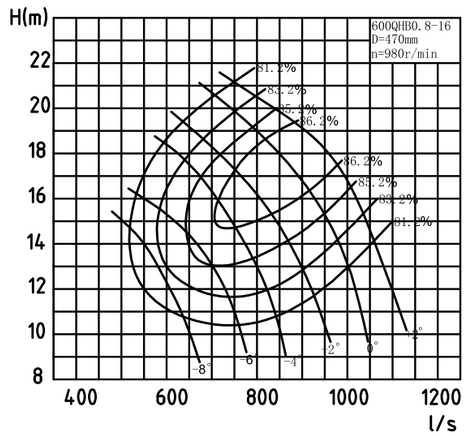
600QHB0.7-12A

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	1603	445.3	12.95	980	73.29	95	77.1	425
	2107	585.3	9.05		62.84		82.6	
	2413	670.3	5.85		49.84		77.1	
-2°	1783	495.3	13.7		86.25		77.1	
	2323	645.3	10.05		75.66		84	
	2719	755.3	5.95		57.12		77.1	
0°	1927	535.3	14.25		96.95	115	77.1	
	2521	700.3	10.55		86.19		84	
	2953	820.3	6.30		65.69		77.1	
+2°	2071	575.3	14.75		107.86	130	77.1	
	2701	750.3	11.05		96.72		84	
	3119	866.4	6.75		74.33		77.1	



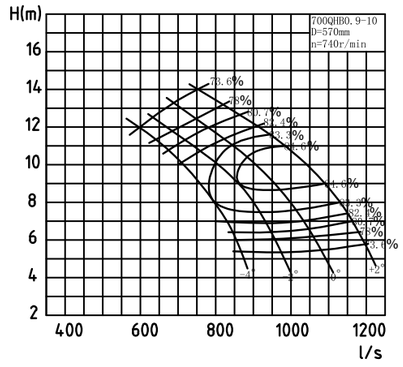
600QHB0.8-16

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	1934	537.2	14.41	980	89.57	110	84.7	470
	2139	594.2	12.58		85.08		86.1	
	2301	639.2	10.75		79.5		84.7	
-4°	2013	559.2	16.92		109.47	132	84.7	
	2395	665.3	14.03		104.3		87.7	
	2730	758.3	10.56		92.65		84.7	
-2°	2172	603.3	18.37		128.24	160	84.7	
	2651	736.4	15.28		124.74		88.4	
	3036	843.3	10.94		106.75		84.7	
0°	2334	648.3	19.24		144.33	185	84.7	
	2874	798.3	16.25		143.82		88.4	
	3338	927.2	11.76		126.16		84.7	
+2°	2618	727.2	20.30		170.81	200	84.7	
	3162	778.3	17.21		167.58		88.4	
	3626	1007.2	12.78		148.94		84.7	
+4°	2841	789.2	20.87		190.56	220	84.7	
	3417	949.2	18.08		190.25		88.4	
	3839	1066.4	13.84		170.76		84.7	



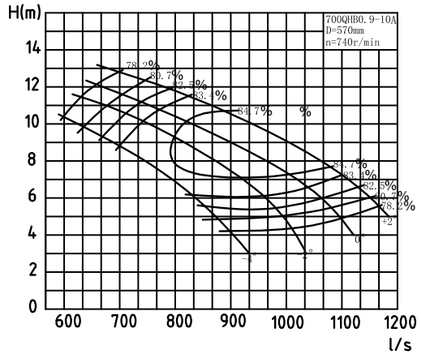
700QHB0.9-10

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	2341	650.3	11.04	740	87.9	110	80.2	570
	2845	790.3	8.04		75.01		83.2	
	3025	840.3	6.64		67.93		80.7	
-2°	2736	760	10.84		98.06		82.5	
	3115	865.3	9.04		90.7		84.7	
	3396	943.3	6.54		75.59		80.2	
0°	2701	750.3	12.34		112.65	132	80.7	
	3241	900.3	10.04		104.8		84.7	
	3701	1028.1	7.04		87.57		81.2	
+2°	2971	825.3	13.04		131.14	160	80.4	
	3493	970.3	11.04		124.19		84.7	
	4123	1145.3	7.64		104.57		82.2	



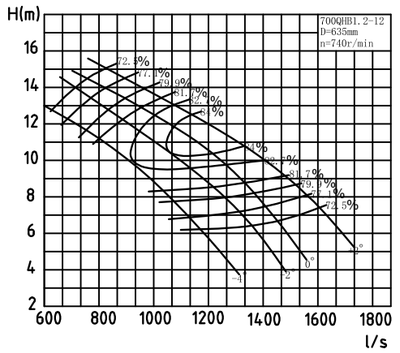
700QHB0.9-10A

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	2125	590.3	10.54	740	76.18	90	80.2	570
	2795	776.4	7.34		67.29		83.2	
	3198	888.3	4.74		51.3		80.7	
-2°	2363	656.4	11.14		87.03	110	82.5	
	3079	855.3	8.24		81.73		84.7	
	3605	1001.4	4.84		59.41		80.2	
0°	2553	709.2	11.64		100.44	132	80.7	
	3342	928.3	8.64		93.01		84.7	
	3914	1087.2	5.14		67.65		81.2	
+2°	2748	763.3	12.04		112.25		80.4	
	3583	995.3	9.04		104.33		84.7	
	4202	1167.2	5.54		77.32		82.2	



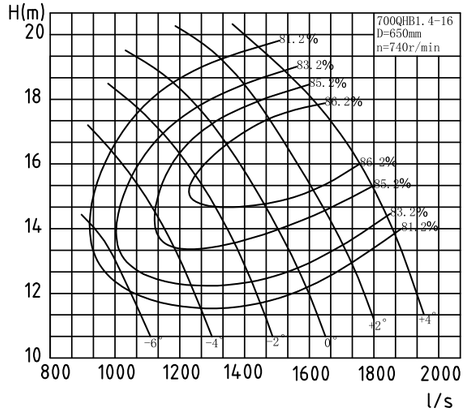
700QHB1.2-12

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	2888	802.2	11.04	740	146.31	185	77.2	635
	3763	1045.3	8.04		127.11		82.7	
	4152	1153.3	6.64		109.5		77.2	
-2°	3083	856.4	10.84		165.99	200	77.2	
	4184	1162.2	9.04		151.44		83.2	
	4872	1353.3	6.54		129.86		77.2	
0°	3331	925.3	12.34		187.58	220	77.2	
	4433	1231.4	10.04		173.10		84	
	5127	1424.2	7.04		139.38		77.2	
+2°	3698	1027.2	13.04		220.00	250	77.2	
	5063	1406.4	11.04		197.70		84.1	
	5743	1595.3	7.64		161.19		77.2	



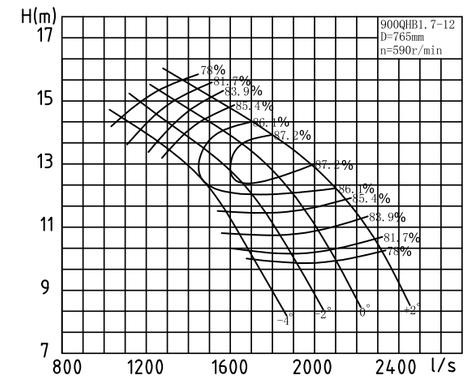
700QHB1.4-16

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	3421	950.3	13.94	740	159	185	81.8	650
	3648	1013.2	12.74		153.84		82.4	
	4047	1124.2	10.44		140.9		81.8	
-4°	3590	997.2	16.44		196.76	220	81.8	
	4220	1172.2	13.74		183.45		86.2	
	4731	1314.2	10.24		161.57		81.8	
-2°	3821	1061.4	17.94		228.52	250	81.8	
	4674	1298.3	14.74		217.96		86.2	
	5325	1479.2	10.74		190.72		81.8	
0°	4105	1140.3	18.84		257.82	280	81.8	
	5073	1409.2	15.74		252.61		86.2	
	5815	1615.3	11.54		223.77		81.8	
+2°	4562	1267.2	19.84		301.72	355	81.8	
	5531	1536.4	16.64		291.15		86.2	
	6326	1757.2	12.44		262.41		81.8	
+4°	4904	1362.2	20.44		334.14	400	81.8	
	5903	1647.2	17.64		330.91		86.2	
	6783	1884.2	13.54		306.23		81.8	



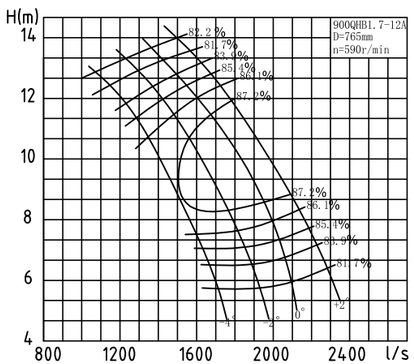
900QHB1.7-12

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	4184	1162.2	13.74	590	191.91	220	81.7	765
	5361	1489.2	10.04		168.38		87.2	
	5952	1653.3	7.14		141.96		81.7	
-2°	4505	1251.4	14.59		219.41	250	81.7	
	5898	1638.3	11.04		203.68		87.2	
	6650	1847.2	7.24		149.81		87.7	
0°	4825	1340.3	15.29		246.27	280	81.7	
	6272	1742.2	12.04		236.20		87.2	
	7345	2040.3	7.34		180.09		81.7	
+2°	5361	1489.2	16.04		287.04	315	81.7	
	7133	1981.4	12.04		268.63		87.2	
	8205	2279.2	7.59		208.02		81.7	



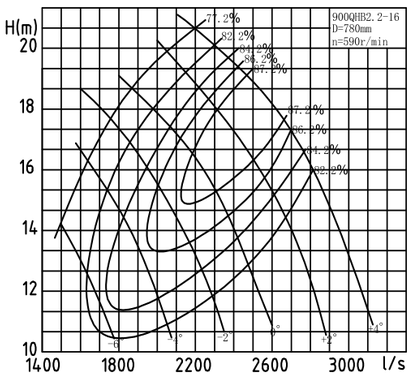
900QHB1.7-12A

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	4184	1162.2	12.34	590	172.37	200	81.7	765
	5361	1489.2	9.04		153.56		86.1	
	6272	1742.2	5.34		111.93		81.7	
-2°	4613	1281.4	13.04		200.82	220	81.7	
	6060	1683.3	9.54		180.87		87.2	
	7025	1951.4	5.64		132.40		81.7	
0°	5307	1474.2	13.04		224.97	250	83.9	
	6542	1817.2	10.04		205.48		87.2	
	7615	2115.3	5.99		152.41		81.7	
+2°	5685	1579.2	13.64		252.07	315	81.7	
	6971	1936.4	10.54		229.84		87.2	
	8205	2279.2	6.34		173.80		81.7	



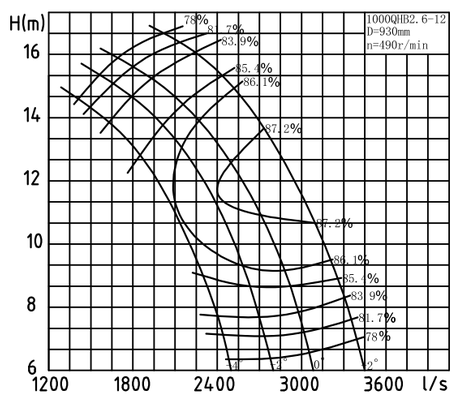
900QHB2.2-16

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-6°	5401	1500.3	14.24	590	253.95	315	82.6	780
	5761	1600.3	13.04		246.27		83.2	
	6391	1775.3	10.69		225.63		82.6	
-4°	5671	1575.3	16.84		315.29	355	82.6	
	6661	1850.3	14.04		293.84		86.8	
	7471	2075.3	10.44		257.60		82.6	
-2°	6031	1675.3	18.29		364.16	400	82.6	
	7381	2050.3	15.04		348.77		86.8	
	8407	2335.3	10.94		303.75		82.6	
0°	6481	1800.3	19.24		411.65	450	82.6	
	8011	2225.3	16.04		403.70		86.8	
	9181	2550.3	11.74		355.95		82.6	
+2°	7201	2000.3	20.24		481.15	560	82.6	
	8731	2425.3	17.04		467.39		86.8	
	9991	2775.3	12.74		420.32		82.6	
+4°	7741	2150.3	20.84		532.56	630	82.6	
	9361	2600.3	18.04		530.51		86.8	
	10711	2975.3	13.79		487.72		82.6	



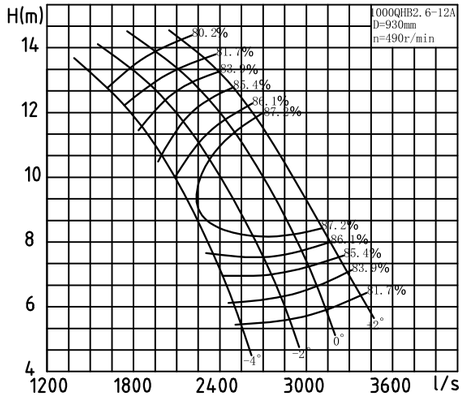
1000QHB2.6-12

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	6189	1719.2	13.74	490	283.88	355	81.7	930
	7935	2204.2	10.04		249.23		87.2	
	8810	2447.2	7.14		210.13		81.7	
-2°	6665	1851.4	14.59		324.62	400	81.7	
	8731	2425.3	11.04		301.52		87.2	
	9840	2733.3	7.24		221.68		87.7	
0°	7143	1984.2	15.29		364.58	450	81.7	
	9285	2579.2	12.04		349.67		87.2	
	10873	3020.3	7.34		266.60		81.7	
+2°	7935	2204.2	16.04		424.86	500	81.7	
	10553	2931.4	12.04		397.43		87.2	
	12140	3372.2	7.59		307.79		81.7	



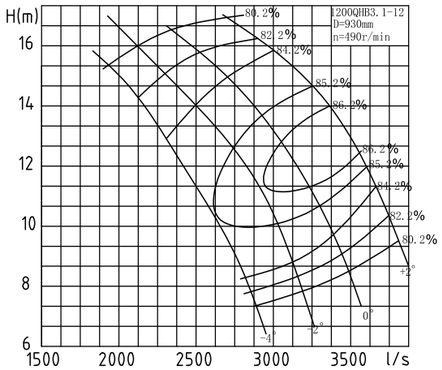
1000QHB2.6-12A

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	6189	1719.2	12.34	490	254.98	315	81.7	930
	7935	2204.2	9.04		227.3		86.1	
	9285	2579.2	5.34		165.71		81.7	
-2°	6827	1896.4	13.04		297.21	355	81.7	
	8969	2491.4	9.54		267.69		87.2	
	10394	2887.2	5.64		195.9		81.7	
0°	7856	2182.2	13.04		333.03	400	83.9	
	9681	2689.2	10.04		304.07		87.2	
	11269	3130.3	5.99		225.55		81.7	
+2°	8411	2336.4	13.64		372.95	450	83.9	
	10315	2865.3	10.54		340.11		87.2	
	12140	3372.2	6.34		257.16		81.7	



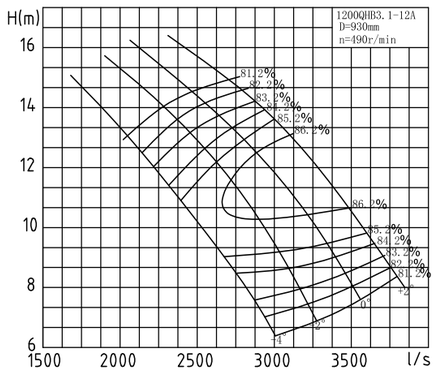
1200QHB3.1-12

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	7237	2010.3	15.04	490	365.58	450	81.2	980
	8702	2417.2	12.04		338.2		84.5	
	9919	2755.3	9.24		292.8		85.4	
-2°	8306	2307.2	15.24		421.27	500	81.95	
	10441	2900.3	11.34		373.76		86.41	
	11319	3144.2	8.44		318.37		81.88	
0°	9721	2700.3	15.04		475.25		83.9	
	11327	3146.4	12.04		429.34		86.6	
	12421	3450.3	9.04		375.00		81.7	
+2°	10469.8	2908.3	16.14		548.61	630	84	
	11913.4	3309.3	14.24		528.50		87.42	
	12874.6	3576.3	12.19		491.46		87.1	



1200QHB3.1-12A

Blade Angle	Flow (m³/h)	Flow (l/s)	Head (m)	Speed (r/min)	Power(kW) Input Power	Power(kW) Motor Power	Efficiency η (%)	Impeller Diameter (mm)
-4°	7049.8	1958.3	13.74	490	330.25	400	80	980
	9109	2530.3	10.04		291.46		85.4	
	10531	2925.3	7.04		243.2		83	
-2°	8191	2275.3	14.14		389.03	450	81	
	10576	2937.8	10.04		336.83		85.8	
	11791	3275.3	7.04		274.95		82.2	
0°	9994.6	2776.3	13.29		424.21	500	85.2	
	11791	3275.3	10.04		374.62		86	
	12961	3600.3	7.04		306.70		81	
+2°	10667.8	2963.3	13.81		470.49	560	85.2	
	14167	3575.3	10.04		408.49		86.1	
	12871	3935.3	7.04		339.43		80	



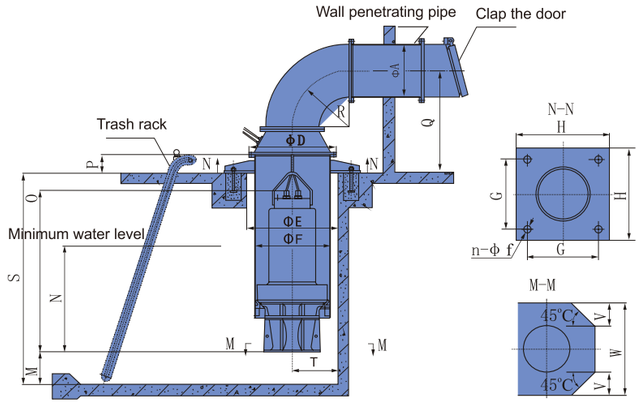
Installation type and dimensions of QZB series submersible axial flow pump and QHB series submersible mixed flow pump

The smaller QZB series submersible shaft oil pump and QHB series submersible mixed flow pump adopt an open inlet installation method, which includes suspended installation and steel well simple installation, as well as concrete prefabricated well installation. Suspension type installation and steel shaft type installation are provided by our company as a complete set of shafts, while precast concrete shaft type installation is provided by our company as installation bases (including anti rotation devices) and well cover devices.

When installing, lift the submersible pump into the bottom of the wellbore cover, and the inclined surface on the guide vane body matches the inclined surface of the support. The sealing rubber (O-ring) acts as a seal.

Larger submersible pumps (usually with an impeller diameter of over 1 meter) are installed in a closed inlet channel.

1.Suspended installation



Note:

① The dimensions in the table are the installation dimensions of the pump and the hydraulic control dimensions of the pump station design, with the hydraulic dimensions of the pump station design as reference values.

② Size A is determined based on pump flow rate to control flow rate and reduce hydraulic losses. The dimensions in the table are reference values, and can be appropriately increased if necessary;

The size is determined based on the specific conditions of the pumping station; Size is SQR

The minimum reference size can be appropriately increased if conditions permit.

The above dimensions are determined according to user requirements.

③ The distance between the pump center and the rear pool wall shall not exceed dimension T.

④ The center distance between two pumps in the same pool shall not be less than dimension Z

Table 1 for Installation Dimensions of Well Bend Installation(QZB)

NO.	Model	φA	φD	φE	φF	R	H	G	n-φf	M	N	O	P	T	S	W	V	Pump weight (kg)	Axial water thrust (N)
1	350QZB-70G	400 或 500	755	800	600	525	1350	1150	4-28	290	715	2300	200	360	1400	1400	350	652	7050
2	350QZB-70D										715	1740						452	3150
3	350QZB-100										715	1730						650	5550
4	350QZB-125										715	1730						650	4850
5	500QZB-70G	600 或 700	975	1050	800	750	1600	1350	4-35	430	1110	2560	200	540	1800	1800	450	1102	15950
6	500QZB-70D										815	2020						902	8950
7	500QZB-100GA										1120	2020						970	12700
8	500QZB-100DA										815	2020						850	7200
9	500QZB-100GB										1120	2020						950	12050
10	500QZB-100DB										815	2020						830	6650
11	500QZB-125G										1200	2020						902	8950
12	500QZB-125D										815	2020						802	5150
13	500QZB-160G										1200	2020						902	6650
14	500QZB-160D										815	2020						802	3650
15	600QZB-70	700 或 800	1175	1225	1000	900	1850	1600	4-36	530	1250	2560	220	660	2200	2200	550	2100	19900
16	600QZB-100G										1250	2560						2100	16100
17	600QZB-100D										885	2560						2100	10100
18	600QZB-125										1250	2560						2100	15200
19	600QZB-160G										1250	2560						2100	9980
20	600QZB-160D										885	2560						1980	14530
21	700QZB-50										1000	2820						2902	34250
22	700QZB-70G	800 或 900	1305	1365	1100	1050	2000	1700	4-40	580	1200	2860	220	720	2400	2400	600	2502	33250
23	700QZB-70D										1000	2800						2302	21050
24	700QZB-100G										1200	2850						2502	26450
25	700QZB-100D										1000	2800						2302	16950

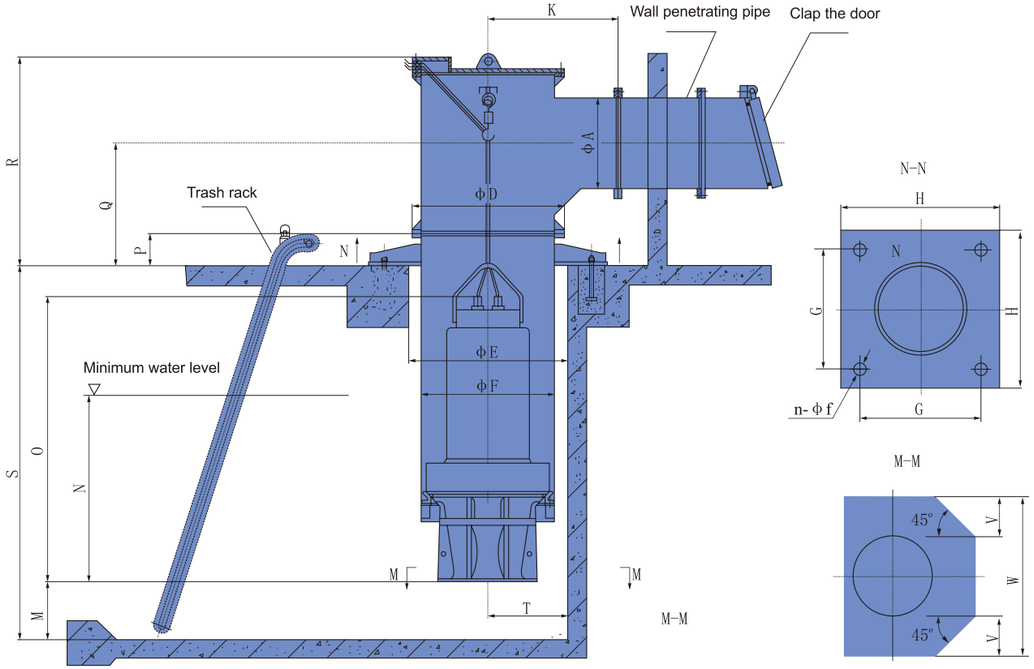
Table 2 for Installation Dimensions of Well Bend Installation(QZB)

NO.	Model	φA	φD	φE	φF	R	H	G	n-φf	M	N	O	P	T	S	W	V	Pump weight (kg)	Axial water thrust (N)
26	700QZB-125G	800 或 900	1305	1365	1100	1050	2000	1700	4-40	580	1200	2850	220	720	2400	2400	600	2502	21450
27	700QZB-125D										1000	2800						2302	13750
28	700QZB-160G										1200	2850						2502	16050
29	700QZB-160D										1000	2800						2302	10250
30	800QZB-70G	900 或 1000	1405	1450	1200	1200	2150	1900	4-40	670	1125	2880	260	840	2800	2800	700	3905	37410
31	800QZB-70D										1125	2880						3505	34520
32	800QZB-100G										1125	2880						3855	36900
33	800QZB-100D										1125	2880						3465	32630
34	800QZB-125G										1125	2880						3245	28400
35	800QZB-125D										1125	2880						2850	23400
36	900QZB-50	1000 或 1100	1520	1600	1300	1350	2250	2000	4-40	820	1365	3900	300	1020	3400	3400	850	5400	68000
37	900QZB-70										1520	3600						4950	56200
38	900QZB-100G										1365	3350						4950	45500
39	900QZB-100D										1365	3430						4950	40300
40	900QZB-125										1590	3000						4450	39500
41	900QZB-160										1355	3000						4450	27700
42	1000QZB-50	1200	1630	1700	1400	1500	2300	2050	4-40	840	1380	4100	300	1040	3480	3480	870	6900	66600
43	1000QZB-70										1380	3890						6100	54700
44	1000QZB-100										1380	3280						5150	44200
45	1000QZB-125										1380	3280						5150	38400
46	1000QZB-160										1380	3280						5150	27000
47	1200QZB-70	1400	1830	1900	1600	1800	2500	2200	4-40	910	2730	4280	300	1140	3800	3800	840	7400	77700
48	1200QZB-100										1510	3790						5890	62980
49	1200QZB-125										2820	3790						5890	54690
50	1200QZB-160										2400	3790						5890	38390

Installation dimension table for wellbore bent pipe (QHB)

NO.	Model	φA	φD	φE	φF	R	H	G	n-φf	M	N	O	P	T	S	W	V	Pump weight (kg)	Axial water thrust (N)
1	350QHB0.1-5	400	755	800	600	525	1300	1150	4-28	200	555	1730	200	490	1450	1000	240	362	1050
2	350QHB0.2-11	400	975	1050	800	750	1550	1350	4-36	290	705	2020	200	590	1550	1550	390	1002	4950
3	350QHB0.3-28	400	1175	1225	1000	900	1800	1600	4-40	390	815	2580	220	690	1750	1750	440	250	19550
4	350QHB0.3-40	400	1175	1225	1000	900	1800	1600	4-40	390	805	3180	220	690	1750	1750	440	2450	24650
5	400QHB0.3-10	400	975	1050	800	750	1550	1350	4-36	290	705	2020	200	590	1550	1550	390	1202	6250
6	500QHB0.5-32	600	1405	1450	1200	1200	2100	1900	4-40	390	855	3210	200	990	2350	2350	590	3922	33250
7	500QHB0.6-8	600	975	1050	800	750	1550	1350	4-36	390	1105	2270	300	590	1550	1550	390	1502	17550
8	500QHB0.6-35	600	1520	1600	1300	1350	2200	2000	4-40	490	755	2810	220	990	2750	2750	690	4902	45350
9	600QHB0.7-12	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2310	220	690	1750	1750	440	1502	29550
10	600QHB0.7-12A	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2290	220	690	1750	1750	440	1402	29550
11	600QHB0.8-16	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2320	220	700	1750	1750	440	1552	31950
12	700QHB0.9-13	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	3030	220	790	1950	1950	490	3862	19750
13	700QHB0.9-10	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2510	220	790	1950	1950	490	2802	33450
14	700QHB0.9-10A	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2480	220	790	1950	1950	490	2702	33450
15	700QHB0.9-13	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2480	220	790	1950	1950	490	2702	33450
16	700QHB1.1-20	800	1405	1450	1200	1200	2100	1900	4-40	640	1005	2900	220	990	2350	2350	590	5102	35450
17	700QHB1.2-12	800	1305	1365	1100	1050	1900	1700	4-40	640	1205	2500	220	790	1950	1950	490	2802	38450
18	700QHB1.4-16	800	1305	1570	1300	1050	1900	1700	4-40	640	1205	2520	260	790	1950	1950	490	2902	53550
19	900QHB1.8-10	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5790	71750
20	900QHB1.8-10A	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5690	71750
21	900QHB1.7-12	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5805	89000
22	900QHB1.7-12A	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5705	89000
23	900QHB2.2-16	1100	1630	1700	1400	1500	2250	2050	4-40	990	1605	3780	300	1150	3150	3150	850	8000	99050

2. Steel wellbore installation



Note:

① The dimensions in the table refer to the installation dimensions of the pump and the hydraulic control of the pump station design,Dimensions, with the hydraulic dimensions designed for the pump station as the reference value.

② Size A is determined based on pump flow rate to control flow rate and reduce hydraulic losses. The dimensions in the table are reference values, and can be appropriately increased if necessary; The dimensions S, Q, and R are determined based on the specific conditions of the pumping station.

The above dimensions are determined according to user requirements.

③ The distance between the pump center and the rear pool wall shall not exceed dimension T.

④The center distance between two pumps in the same pool shall not be less than dimension Z.

Steel wellbore installation dimension table 2 (QZB)

NO.	Model	ΦA	ΦD	ΦE	ΦF	G	H	n-Φf	R	M	N	O	P	S	T	W	V	Pump weight (kg)	Axial water thrust (N)
1	350QZ-70G	350	755	800	600	1150	1350	4-28	750	300	700	1810	200	1500	500	1050	250	600	7100
2	350QZ-70D	350	755	800	600	1150	1350	4-28	750	300	700	1733	200	1500	500	1050	250	450	3200
3	350QZ-100	350	755	800	600	1150	1350	4-28	750	300	700	1810	200	1500	500	1050	250	600	8400
4	350QZ-125	350	755	800	600	1150	1350	4-28	750	300	700	1740	200	1500	500	1050	250	450	3800
5	500QZ-70G	500	975	1050	800	1350	1600	4-33	900	400	1200	2260	200	1600	600	1600	400	1500	19000
6	500QZ-70D	500	975	1050	800	1350	1600	4-33	900	400	900	2260	200	1600	600	1600	400	1100	10600
7	500QZ-100GA	500	975	1050	800	1350	1600	4-33	900	400	1000	2015	200	1600	600	1600	400	1200	16000
8	500QZ-100DA	500	975	1050	800	1350	1600	4-33	900	400	800	2015	200	1600	600	1600	400	900	9000
9	500QZ-100GB	500	975	1050	800	1350	1600	4-33	900	400	1000	2015	200	1600	600	1600	400	800	9400
10	500QZ-100DB	500	975	1050	800	1350	1600	4-33	900	400	800	2015	200	1600	600	1600	400	650	5200
11	500QZ-125G	500	975	1050	800	1350	1600	4-33	900	400	1000	2015	200	1600	600	1600	400	800	11100
12	500QZ-125D	500	975	1050	800	1350	1600	4-33	900	400	800	2015	200	1600	600	1600	400	650	6700
13	500QZ-160G	500	975	1050	800	1350	1600	4-33	900	400	1000	2015	200	1600	600	1600	400	900	9000
14	500QZ-160D	500	975	1050	800	1350	1600	4-33	900	400	800	2015	200	1600	600	1600	400	800	5200
15	600QZ-70	600	1175	1225	1000	1600	1850	4-33	1000	450	1000	2250	220	1800	700	1800	450	1500	6700
16	600QZ-100G	600	1175	1225	1000	1600	1850	4-33	1000	450	800	2250	220	1800	700	1800	450	1200	3700
17	600QZ-100D	600	1175	1225	1000	1600	1850	4-33	1000	450	1000	2250	220	1800	700	1800	450	1500	13400
18	600QZ-125	600	1175	1225	1000	1600	1850	4-33	1000	450	800	2250	220	1800	700	1800	450	1200	9000
19	600QZ-160G	600	1175	1225	1000	1600	1850	4-33	1000	450	1000	2250	220	1800	700	1800	450	1540	6900
20	600QZ-160D	600	1175	1225	1000	1600	1850	4-33	1000	450	800	2250	220	1800	700	1800	450	1200	5200
21	700QZ-50	700	1175	1365	1000	1700	2000	4-40	1000	550	1200	2570	220	2000	800	2000	500	2500	39000
22	700QZ-70G	700	1175	1365	1000	1700	2000	4-40	1000	550	1000	2500	220	2000	800	2000	500	2200	24600
23	700QZ-70D	700	1305	1365	1100	1700	2000	4-40	1000	550	1200	2852	220	2000	800	2000	500	2500	38400
24	700QZ-100G	700	1305	1365	1100	1700	2000	4-40	1000	550	1000	2800	220	2000	800	2000	500	2200	24200
25	700QZ-100D	700	1305	1365	1100	1700	2000	4-40	1000	550	1200	2850	220	2000	800	2000	500	2500	33200

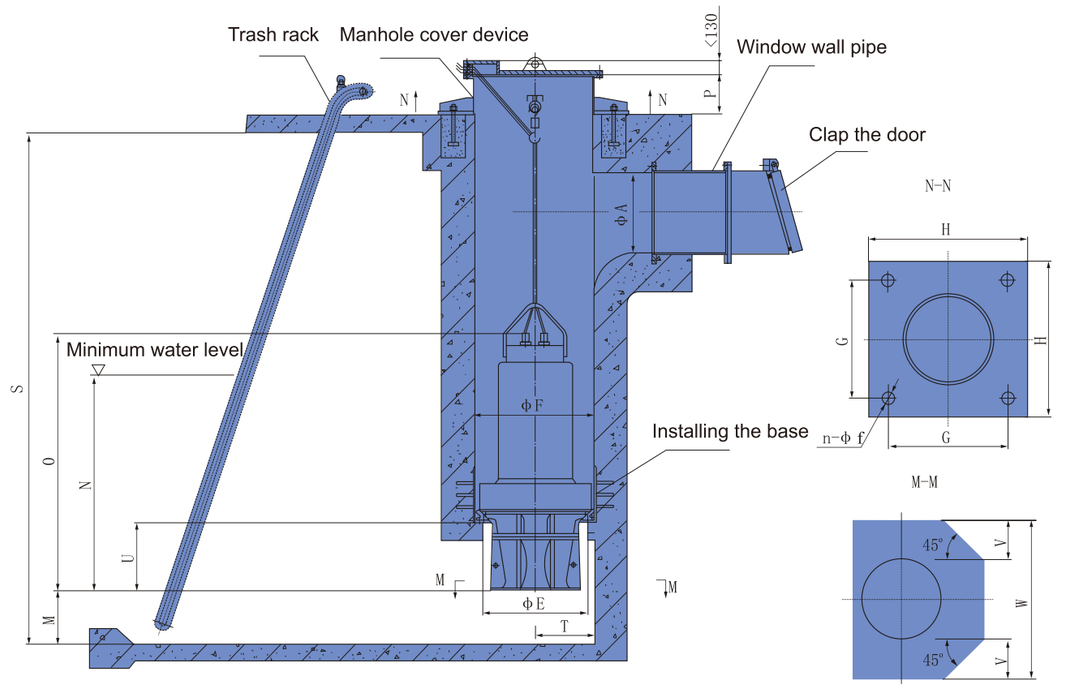
Steel wellbore installation dimension table 2 (QZB)

NO.	Model	φA	φD	φE	φF	H	G	n-φf	M	N	O	P	T	S	W	V	Pump weight (kg)	Axial water thrust (N)
26	700QZB-125G	800或900	1305	1365	1100	2000	1700	4-40	580	1200	2850	220	720	2400	2400	600	2502	21450
27	700QZB-125D									1000	2800						2302	13750
28	700QZB-160G									1200	2850						2502	16050
29	700QZB-160D									1000	2800						2302	10250
30	800QZB-70G	900或1000	1405	1450	1200	2150	1900	4-40	670	1125	2880	260	840	2800	2800	700	3905	37410
31	800QZB-70D									1125	2880						3505	34520
32	800QZB-100G									1125	2880						3855	36900
33	800QZB-100D									1125	2880						3465	32630
34	800QZB-125G									1125	2880						3245	28400
35	800QZB-125D									1125	2880						2850	23400
36	900QZB-50	1000或1100	1520	1600	1300	2250	2000	4-40	820	1365	3900	300	1020	3400	3400	850	5400	68000
37	900QZB-70									1520	3600						4950	56200
38	900QZB-100G									1365	3350						4950	45500
39	900QZB-100D									1365	3430						4950	40300
40	900QZB-125									1590	3000						4450	39500
41	900QZB-160									1355	3000						4450	27700
42	1000QZB-50	1200	1630	1700	1400	2300	2050	4-40	840	1380	4100	300	1040	3480	3480	870	6900	66600
43	1000QZB-70									1380	3890						6100	54700
44	1000QZB-100									1380	3280						5150	44200
45	1000QZB-125									1380	3280						5150	38400
46	1000QZB-160									1380	3280						5150	27000
47	1200QZB-70	1400	1830	1900	1600	2500	2200	4-40	910	2730	4280	300	1140	3800	3800	840	7400	77700
48	1200QZB-100									1510	3790						5890	62980
49	1200QZB-125									2820	3790						5890	54690
50	1200QZB-160									2400	3790						5890	38390

Steel wellbore installation dimension table (QHB)

NO.	Model	φA	φD	φE	φF	R	H	G	n-φf	M	N	O	P	T	S	W	V	Pump weight (kg)	Axial water thrust (N)
1	350QHB0.1-5	400	755	800	600	525	1300	1150	4-28	200	555	1730	200	490	1450	1000	240	362	1050
2	350QHB0.2-11	400	975	1050	800	750	1550	1350	4-36	290	705	2020	200	590	1550	1550	390	1002	4950
3	350QHB0.3-28	400	1175	1225	1000	900	1800	1600	4-40	390	815	2580	220	690	1750	1750	440	250	19550
4	350QHB0.3-40	400	1175	1225	1000	900	1800	1600	4-40	390	805	3180	220	690	1750	1750	440	2450	24650
5	400QHB0.3-10	400	975	1050	800	750	1550	1350	4-36	290	705	2020	200	590	1550	1550	390	1202	6250
6	500QHB0.5-32	600	1405	1450	1200	1200	2100	1900	4-40	390	855	3210	200	990	2350	2350	590	3922	33250
7	500QHB0.6-8	600	975	1050	800	750	1550	1350	4-36	390	1105	2270	300	590	1550	1550	390	1502	17550
8	500QHB0.6-35	600	1520	1600	1300	1350	2200	2000	4-40	490	755	2810	220	990	2750	2750	690	4902	45350
9	600QHB0.7-12	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2310	220	690	1750	1750	440	1502	29550
10	600QHB0.7-12A	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2290	220	690	1750	1750	440	1402	29550
11	600QHB0.8-16	700	1175	1225	1000	900	1800	1600	4-40	440	1005	2320	220	700	1750	1750	440	1552	31950
12	700QHB0.9-13	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	3030	220	790	1950	1950	490	3862	19750
13	700QHB0.9-10	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2510	220	790	1950	1950	490	2802	33450
14	700QHB0.9-10A	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2480	220	790	1950	1950	490	2702	33450
15	700QHB0.9-13	800	1305	1365	1100	1050	1950	1700	4-40	640	1205	2480	220	790	1950	1950	490	2702	33450
16	700QHB1.1-20	800	1405	1450	1200	1200	2100	1900	4-40	640	1005	2900	220	990	2350	2350	590	5102	35450
17	700QHB1.2-12	800	1305	1365	1100	1050	1900	1700	4-40	640	1205	2500	220	790	1950	1950	490	2802	38450
18	700QHB1.4-16	800	1305	1570	1300	1050	1900	1700	4-40	640	1205	2520	260	790	1950	1950	490	2902	53550
19	900QHB1.8-10	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5790	71750
20	900QHB1.8-10A	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5690	71750
21	900QHB1.7-12	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5805	89000
22	900QHB1.7-12A	1000	1520	1570	1300	1350	2000	1800	4-40	990	1505	3100	260	1050	2750	2750	750	5705	89000
23	900QHB2.2-16	1100	1630	1700	1400	1500	2250	2050	4-40	990	1605	3780	300	1150	3150	3150	850	8000	99050

3. Prefabricated concrete shaft installation



Note:

①The dimensions in the table are the installation dimensions of the pump and the hydraulic control dimensions of the pump station design, with the hydraulic dimensions of the pump station design as reference values.

② Size A is determined based on pump flow rate to control flow rate and reduce hydraulic losses. The dimensions in the table are reference values, and can be appropriately increased if necessary; The size S is determined based on the specific conditions of the pumping station.

The above dimensions are determined according to user requirements.

③ The distance between the pump center and the rear pool wall shall not exceed dimension T.

④ The center distance between two pumps in the same pool shall not be less than dimension Z

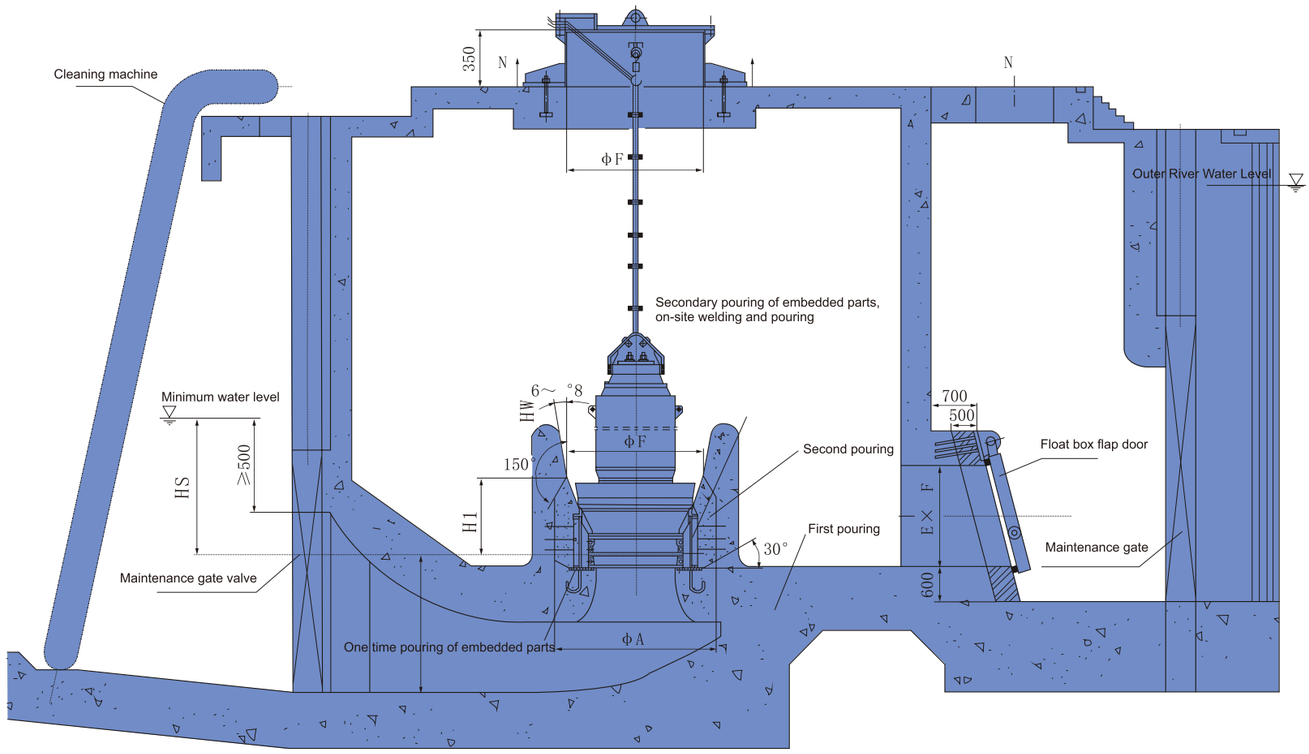
Concrete Prefabricated Well Installation Size Table 1 (QZB)

NO.	Model	φA	φF	H	G	n-φf	M	N	O	P	T	S	W	V	U	φE	Pump weight (kg)	Axial water thrust (N)
1	350QZB-70G	400 或 500	600	1350	1150	4-28	285	715	2310	210	350	1350	1350	340	360	500	652	7050
2	350QZB-70D							715	1740								452	3150
3	350QZB-100						290	715	1730								650	5550
4	350QZB-125							715	1730								650	4850
5	500QZB-70G	600 或 700	800	1600	1350	4-36	425	1110	2560	210	530	1750	1750	440	540	680	1102	15950
6	500QZB-70D							815	2020								902	8950
7	500QZB-100GA							1120	2020								970	12700
8	500QZB-100DA							815	2020								850	7200
9	500QZB-100GB							1120	2020								950	12050
10	500QZB-100DB						430	815	2020								830	6650
11	500QZB-125G							1200	2020								902	8950
12	500QZB-125D							815	2020								802	5150
13	500QZB-160G							1200	2020								902	6650
14	500QZB-160D							815	2020								802	3650
15	600QZB-70	700 或 800	1000	1850	1600	4-36	525	1250	2580	230	650	2150	2150	540	660	880	2100	19900
16	600QZB-100G							1250	2580								2100	16100
17	600QZB-100D							885	2580								2100	10100
18	600QZB-125							1250	2580								2100	15200
19	600QZB-160G						530	1250	2580								2100	9980
20	600QZB-160D							885	2580								1980	14530
21	700QZB-50							1000	2810								2902	34250
22	700QZB-70G	800 或 900	1100	2000	1700	4-40	575	1200	2860	230	710	2350	2350	590	720	950	2502	33250
23	700QZB-70D							1000	2810								2302	21050
24	700QZB-100G						580	1200	2860								2502	26450
25	700QZB-100D							1000	2810								2302	16950

Concrete Prefabricated Well Installation Size Table (QHB)

NO.	Model	φA	φF	H	G	n-φf	M	N	O	P	T	S	W	V	U	φE	Pump weight (kg)	Axial water thrust (N)
1	350QHB0.1-5	400	600	1300	1150	4-28	200	555	1730	210	490	1450	1000	240	275	450	362	1050
2	350QHB0.2-11	400	800	1550	1350	4-36	290	705	2020	210	590	1550	1550	390	275	650	1002	4950
3	350QHB0.3-28	400	1000	1800	1600	4-40	390	815	2580	230	690	1750	1750	440	510	810	250	19550
4	350QHB0.3-40	400	1000	1800	1600	4-40	390	805	3180	230	690	1750	1750	440	500	790	2450	24650
5	400QHB0.3-10	400	800	1550	1350	4-36	290	705	2020	210	590	1550	1550	390	360	650	1202	6250
6	500QHB0.5-32	600	1200	2100	1900	4-40	390	855	3210	270	990	2350	2350	590	420	810	3922	33250
7	500QHB0.6-8	600	800	1550	1350	4-36	390	1105	2270	210	590	1550	1550	390	600	850	1502	17550
8	500QHB0.6-35	600	1300	2200	2000	4-40	490	755	2810	310	990	2750	2750	690	690	1130	4902	45350
9	600QHB0.7-12	700	1000	1800	1600	4-40	440	1005	2310	230	690	1750	1750	440	600	850	1502	29550
10	600QHB0.7-12A	700	1000	1800	1600	4-40	440	1005	2290	230	690	1750	1750	440	600	850	1402	29550
11	600QHB0.8-16	700	1000	1800	1600	4-40	440	1005	2320	230	700	1750	1750	440	610	850	1552	31950
12	700QHB0.9-13	800	1100	1950	1700	4-40	640	1205	3030	230	790	1950	1950	490	530	850	3862	19750
13	700QHB0.9-10	800	1100	1950	1700	4-40	640	1205	2510	230	790	1950	1950	490	530	850	2802	33450
14	700QHB0.9-10A	800	1100	1950	1700	4-40	640	1205	2480	230	790	1950	1950	490	530	850	2702	33450
15	700QHB0.9-13	800	1100	1950	1700	4-40	640	1205	2480	230	790	1950	1950	490	530	850	2702	33450
16	700QHB1.1-20	800	1200	2100	1900	4-40	640	1005	2900	270	990	2350	2350	590	530	950	5102	35450
17	700QHB1.2-12	800	1100	1900	1700	4-40	640	1205	2500	230	790	1950	1950	490	530	950	2802	38450
18	700QHB1.4-16	800	1300	1900	1700	4-40	640	1205	2520	230	790	1950	1950	490	530	850	2902	53550
19	900QHB1.8-10	1000	1300	2000	1800	4-40	990	1505	3100	270	1050	2750	2750	750	980	1110	5790	71750
20	900QHB1.8-10A	1000	1300	2000	1800	4-40	990	1505	3100	270	1050	2750	2750	750	980	1110	5690	71750
21	900QHB1.7-12	1000	1300	2000	1800	4-40	990	1505	3100	270	1050	2750	2750	750	980	1110	5805	89000
22	900QHB1.7-12A	1000	1300	2000	1800	4-40	990	1505	3100	270	1050	2750	2750	750	980	1110	5705	89000
23	900QHB2.2-16	1100	1400	2250	2050	4-40	990	1605	3780	310	1150	3150	3150	850	980	1110	8000	99050

4. Prefabricated concrete wellbore installation with enclosed inlet channel

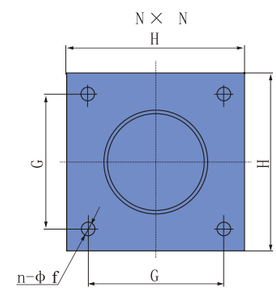


Explanation:

The inlet channel can be equipped with elbow shaped, bell shaped, and dustpan shaped channels. The channel size in the installation dimension table is a dustpan channel (for reference only).

The submergence depth must not only meet the requirements in the table, but also be at least 500mm higher than the inlet edge of the flow channel.

Generally speaking, the installation dimensions of the pump section are proposed by the manufacturer, and the submergence depth is required by the manufacturer, which is then confirmed through device testing; The geometric dimensions of the inlet and outlet water channels are calculated by the design unit through numerical simulation according to the specifications. After preliminary determination, device model tests are conducted. The geometric dimensions of the flow channels provided by the manufacturer are for reference by the design unit during design.



LIANSHENG PUMP
LYSON

Installation dimensions of closed dustpan shaped inlet channel concrete prefabricated shaft type installation

NO.	Model	Hw	Hs	φF	H1	φA	H	G	n-φf	E×F	Pump weight (kg)	Axial water thrust (N)
1	1200QZB-70	1580	1600	1600	950	1900	2100	1800	4-40	1400×1400	7380	77700
2	1200QZB-100		800								5850	62980
3	1200QZB-125		2250								5850	54690
4	1200QZB-160		1750								5900	38390
5	1300QZB-70	1910	800	1900	1150	2100	2300	2000	4-40	1400×1600	9000	95300
6	1300QZB-100		800								8000	77050
7	1300QZB-125		800								8000	66950
8	1300QZB-160		800								8000	46990
9	1400QZB-70	1990	1080	1900	1200	2200	2400	2100	4-40	1400×1800	10000	112950
10	1400QZB-100		800								9000	91450
11	1400QZB-125		1180								9000	79350
12	1400QZB-160		800								9000	55650
13	1600QZB-100	2460	800	2300	1480	2600	2800	2500	4-40	1400×1800	12000	134450
14	1600QZB-125		900								12000	116750
15	1600QZB-160		800								12000	81880
16	1000QHB2.6-12	1350	2050	1400	750	1700	1800	1550	4-40	1400×1200	6800	68990
17	1000QHB2.6-12A		2050								6300	62990
18	1000QHB3.1-12	1580	2250	1600	950	1900	2000	1750	4-40	1400×1400	7900	79880
19	1000QHB3.1-12A		2250								7300	73880

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