



Leading the Rise of Chinese Pump Industry

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ZQHQ系列潜水轴流、混流泵

ZQHQ Series Submersible Axial Flow Pump, Mixed Flow Pump



- **Wide range of application**
Large capacity and low head, wide application range
- **High efficiency**
Advanced model, blade precision casting, guide vane streamline
- **Environmental fashion**
Running in water with low noise
- **Simple installation**
Mechanical and electrical integration, simple and quick installation
- **High reliability**
Unique cable entry and wiring sealing, multi-channel mechanical sealing in series with electromechanical integration, complete protection

上海凯泉泵业(集团)有限公司
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ISO9001 2015 版国际质量体系认证
ISO9001 Certified(version 2015)



Shanghai Industrial Park



Hefei Industrial Park



Zhejiang Industrial Park



Shenyang Industrial Park



Shijiazhuang Industrial Park

A design / production / sales of pumps, water supply equipment and pump control equipment in one

Large comprehensive pump industry group

With 5 industrial parks and 23 sales branches

Products are used in construction (including heat and air conditioning), municipalities, nuclear power, thermal power, petrochemicals, large water conservancy and other fields

Continuously create new value for customers

上海凯泉泵业(集团)有限公司
SHANGHAI KAIQUAN PUMP (GROUP) CO., LTD.



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Product Overview

Kaiquan ZQ and HQ semi adjustable submersible axial-flow pump and mixed flow pump (collectively referred to as submersible pump in this sample) are the updated products of traditional axial-flow pump and mixed flow pump. They retain the characteristics of large single flow, wide lift range and high efficiency. The motor driving the pump is dry fully enclosed submersible three-phase asynchronous motor. This series of submersible pumps can continuously operate in the water for a long time, It has the incomparable advantages of traditional units.

1. Strong adaptability:

(1) It can transport clean water and light sewage. The medium temperature can reach 40 °C, pH value is 4-10, and the maximum particle size is not more than 100 mm

(2) Application: urban water supply, water diversion project, urban sewage drainage system, sewage treatment project, power station drainage, dock water supply and drainage, water diversion of water network hub, drainage irrigation, aquaculture, etc. Submersible axial flow pump is suitable for low head, large flow occasions, the use of head is generally less than 10 meters, submersible mixed flow pump has high efficiency, good cavitation performance, suitable for large water level changes and higher head requirements occasions, the use of head is less than 20 meters.

2. The pump station has the advantages of small investment, simple operation and management

(1) Due to submerged operation, it can greatly simplify the geotechnical and building structure engineering of the pump station, reduce the installation area and save 30 ~ 40% of the project cost.

(2) Because the motor and water pump are integrated, there is no need to carry out the labor-consuming and time-consuming assembly process of motor transmission mechanism water pump axis alignment on the installation site, so the on-site installation is convenient and fast.

(3) The management is convenient and the cost of management and operation is small.

(4) It is easy to operate and realize remote control and automatic control.

(5) Low noise, no high temperature in the pump station, improve the operating environment, can be built according to the requirements of the underground pump station, maintain the environmental style of the ground.

(6) Using this type of submersible pump is the most thorough way to solve the problem of flood control of motor in the areas along the river and lake where the water level fluctuates greatly, and the long shaft and intermediate bearing between the pump and the machine are omitted, so that the operation of the unit is more stable and reliable.

3. High reliability, no vibration and low noise

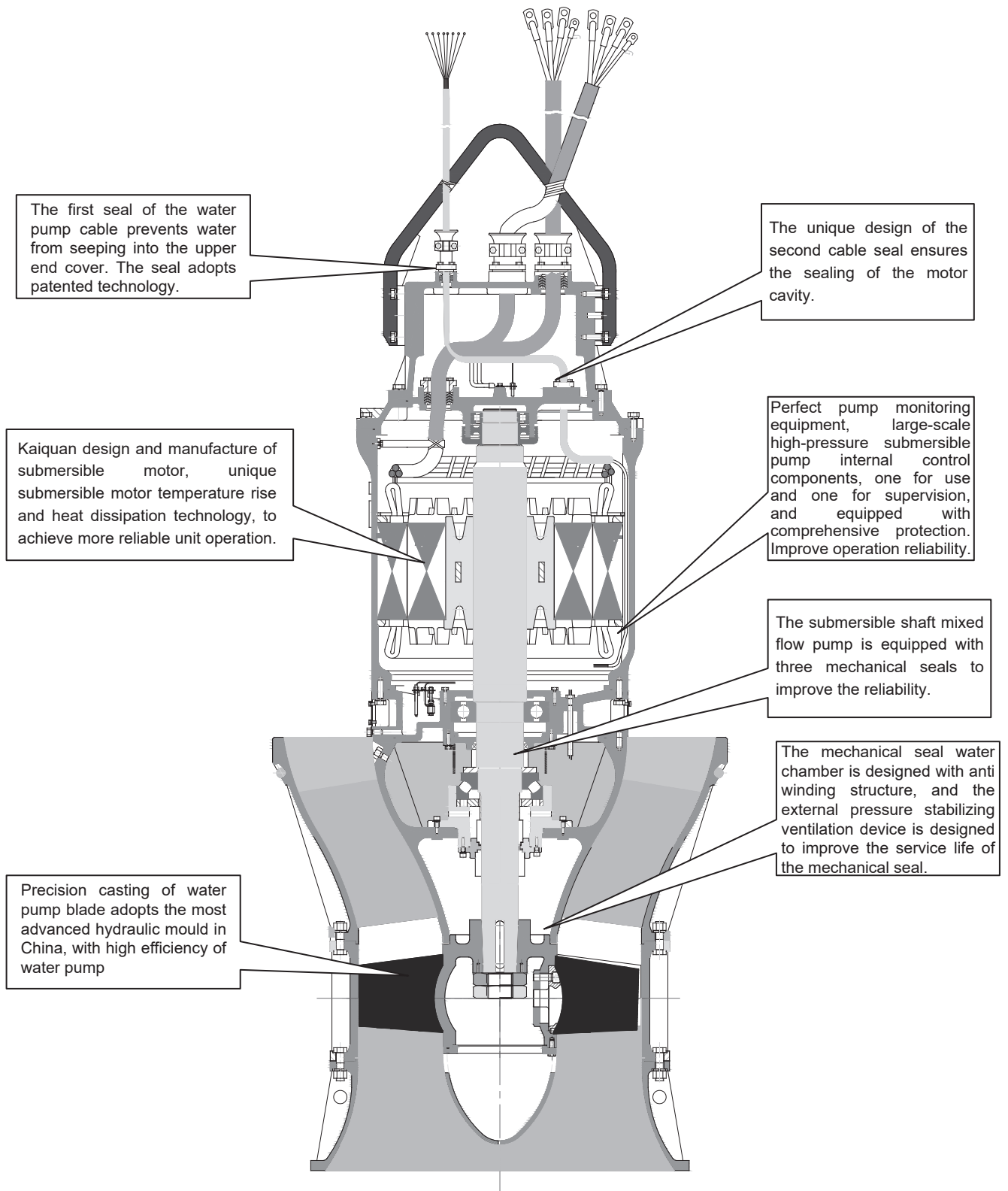
(1) Excellent hydraulic model, well made, to ensure the user's performance requirements. It has interchangeability with traditional pump performance, and is convenient for users to select. Series of products, wide high efficiency area of water pump, in line with the user's working conditions, high efficiency and energy saving, low operating cost.

(2) Submersible motor adopts double or triple mechanical seal to prevent water leakage reliably. Due to large axial force, large pump adopts special thrust bearing with reasonable structure design, sufficient lubrication and long service life.

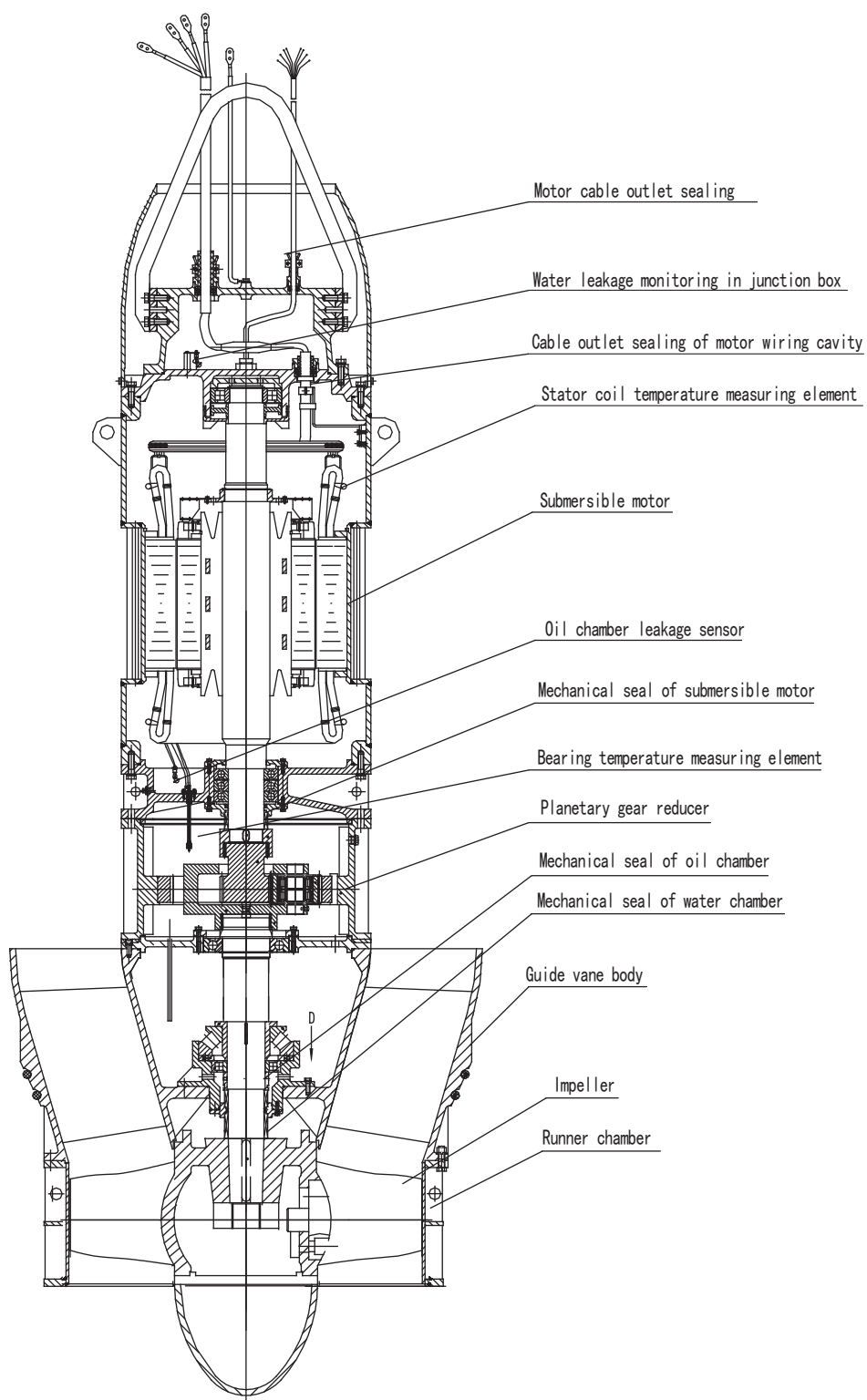
(3) The motor adopts F-class insulation, high temperature resistance, temperature protection, monitoring, leakage and other alarm devices.

(4) The cooling condition is good when the pump submerges into the water; The pump has good balance, stability, small vibration and low noise.

Structural Description



Structural diagram of 1600-2400 diameter large planetary gear reducer submersible pump



1. Impeller

The impeller is converted by the most advanced hydraulic model, with excellent performance, stability and maturity. The smaller n_d value is selected, which has good cavitation resistance and ensures smooth operation.

2. Shaft Seal

Two or three sets of independent mechanical seals, so that the motor and pump seal isolation; The upper and lower parts are installed in series to provide multiple insurance and improve the reliability.

3. Oil Chamber

The oil lubricates and cools the seal, and acts as an isolation between the motor and the medium conveyed. The remaining volume can slow down the sharp rise of pressure in the oil chamber.

4. Advanced Cable Sealing

The unique patent technology of cable sealing is adopted. Water or gas can not penetrate into the cable from the outer layer of the cable sheath radially, so as to prevent water leakage between cores and capillary leakage. It is easy to disassemble and replace the cable.

5. Bearing

The bearing adopts rolling bearing, which can bear all axial and radial loads, and is completely separated from the medium transported by the pump.

6. Pump / Motor Shaft

The pump and motor are coaxial, compact in structure, the shaft extension is shortened as far as possible, the rigidity is strengthened in design, the influence of deflection on product safety and reliability is reduced, the vibration is small during operation, and the service life of seal and bearing is long.

7. Motor

High performance squirrel cage induction motor is specially designed and manufactured by Shanghai Kaiquan for submersible pump, which conforms to gb755 standard. Insulation class F. The rated frequency is 50 Hz and the protection grade is IP 68. Depending on the power, 380V, 660V, 6kV, 10kV and other voltage levels can be used. We can design and manufacture special voltage grade products according to customers' requirements.

8. Monitoring Device

The submersible pump is equipped with a variety of sensors, such as leakage, over temperature, water inflow protection, etc. the special protector installed in the electric control cabinet is used for detection and control, which can effectively protect the submersible pump in real time.

Technical Description

1. Basic model description of submersible pump

a、500 ZQ - 125 C D

One gear lower than the standard speed, that is to say, the speed is reduced, but the standard speed is not marked
Indicates that the impeller diameter is larger than the standard diameter, but the standard diameter is not marked
Specific speed 1250, 1/10 of specific speed
Submersible axial flow pump, in this sample are semi adjustable impeller 500, nominal diameter of pump outlet (mm)

b、700 HQ - 50 C D

One gear lower than the standard speed, that is to say, the speed is reduced, but the standard speed is not marked
Indicates that the impeller diameter is larger than the standard diameter, but the standard diameter is not marked
Specific speed 500, 1/10 of specific speed
Submersible mixed flow pump, in this sample are semi adjustable impeller 700, nominal diameter of pump outlet (mm)

c、1800 ZQX - 125 C D

One gear lower than the standard speed, that is to say, the speed is reduced, but the standard speed is not marked
Indicates that the impeller diameter is larger than the standard diameter, but the standard diameter is not marked
Specific speed 1250, 1/10 of specific speed
Submersible axial-flow pump with planetary gear reducer structure, in this sample are all semi adjustable impeller 1800, pump outlet nominal diameter (mm)

d、The sample model is in line with the industry standard, the front is the basic model of submersible pump, and the latter is to further explain the product model

Example: 500ZQ-125- (0) -55

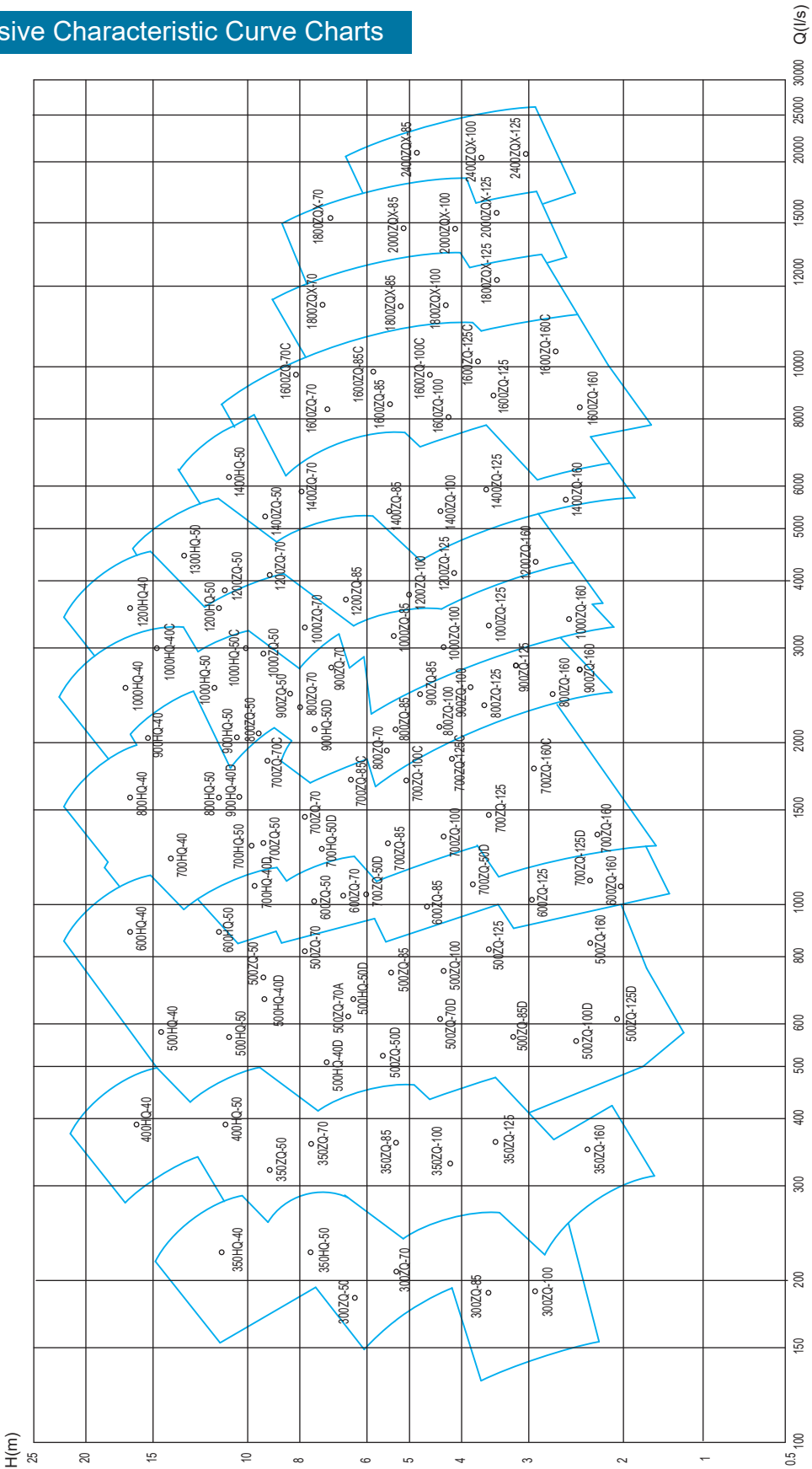
Pump motor power
Installation angle of water pump blade
Pump model

In addition, additional information (impeller material, voltage, installation form and other information) must be clearly written when ordering.

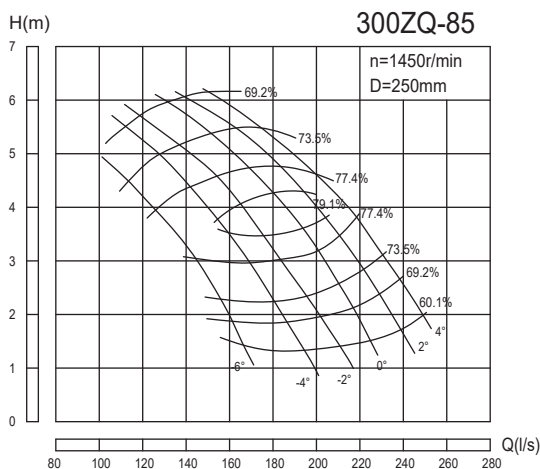
e. The angle in the sample performance curve only indicates the even angle, and the actual angle (including even angle and odd angle) can be subject to the parameters provided by the technical department of our company.

Comprehensive Characteristic Curve Charts

ZQ, HQ Series Axial Flow (Mixed-Flow) Submersible Pump Comprehensive Characteristic Curve Charts

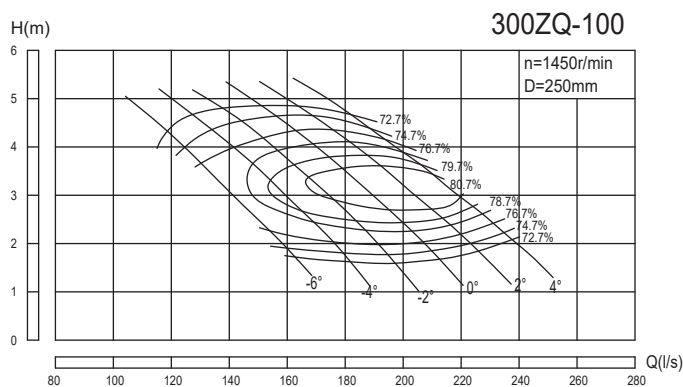


Performance Curve and Steel Wellbore Installation Dimension



300ZQ-85 Performance Parameter Table

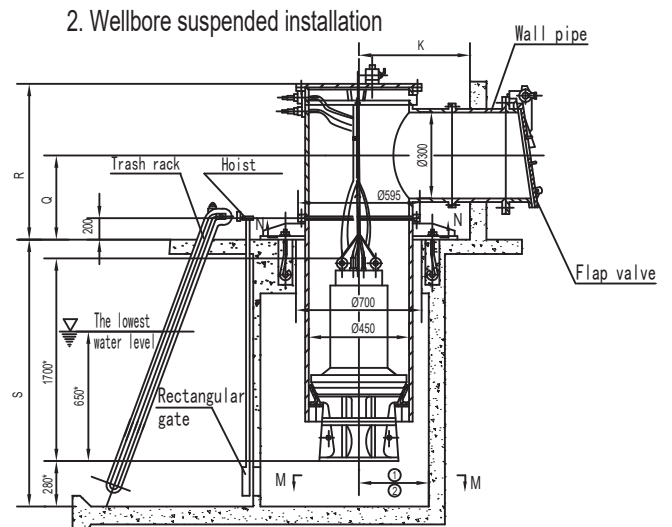
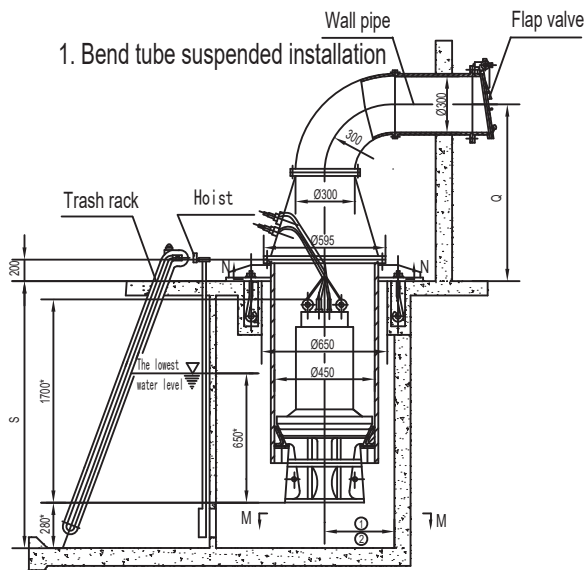
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	564.5	156.8	1.94	1450	4.3	7.5	69.3	250
	516.6	143.5	2.94		5.3		78.3	
	364.7	101.3	4.97		7.1		69.3	
-4°	654.1	181.7	1.88		4.8	11	69.3	
	558.4	155.1	3.61		6.9		79.3	
	400	111.1	5.27		8.3		69.3	
-2°	735.5	204.3	1.94		5.6	15	69.3	
	635.4	176.5	3.54		7.7		79.3	
	439.6	122.1	5.52		9.5		69.3	
0°	791.6	219.9	2.12		6.6	15	69.3	
	695.9	193.3	3.67		8.7		80.3	
	483.5	134.3	5.73		10.9		69.3	
+2°	846	235	2.43		8.1	15	69.3	
	743.8	206.6	3.92		10		79.3	
	527	146.4	5.9		12.2		69.3	
+4°	900	250	2.73		9.7	15	69.3	
	760.3	211.2	4.44		11.7		78.3	
	574.9	159.7	5.89		13.3		69.3	



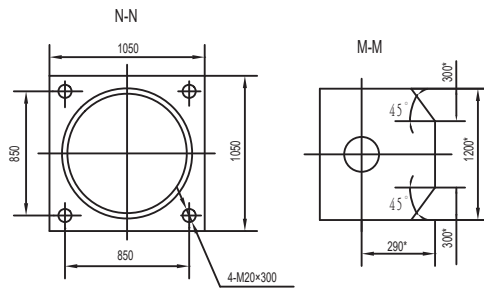
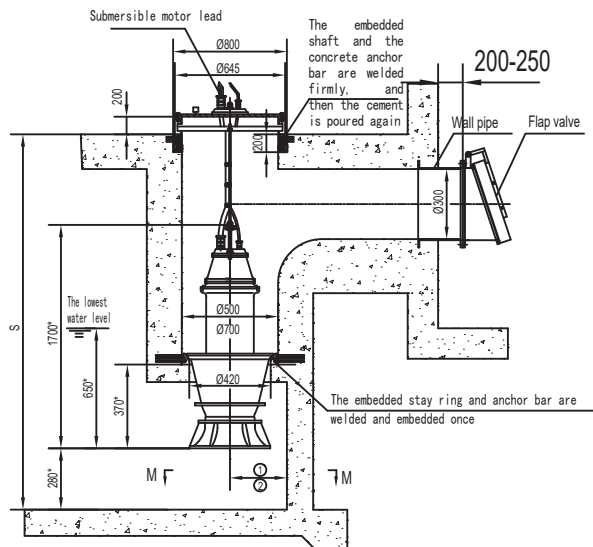
300ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	554	153.9	2.22	1450	4.4	7.5	76.7	250
	520.9	144.7	2.8		5.1		78.3	
	468.7	130.2	3.68		6.1		76.7	
-4°	633.2	175.9	2.03		4.6	11	76.7	
	583.2	162	2.85		5.7		79.8	
	509.4	141.5	3.99		7.2		76.7	
-2°	689.8	191.6	1.98		4.9	11	76.7	
	635.4	176.5	2.92		6.3		80.4	
	545.8	151.6	4.19		8.1		76.7	
0°	743.8	206.6	2.04		5.4	15	76.7	
	687.6	191	2.92		6.8		80.7	
	586.4	162.9	4.34		9		76.7	
+2°	791.6	219.9	2.2		6.2	15	76.7	
	729	202.5	3.08		7.5		81.2	
	633.2	175.9	4.35		9.8		76.7	
+4°	833.4	231.5	2.42		7.2	15	76.7	
	781.2	217	3.09		8.1		80.9	
	698	193.9	4.17		10.3		76.7	

Outline Installation Dimension Diagram 300ZQ-85,300ZQ-100



3. Precast concrete wellbore installation

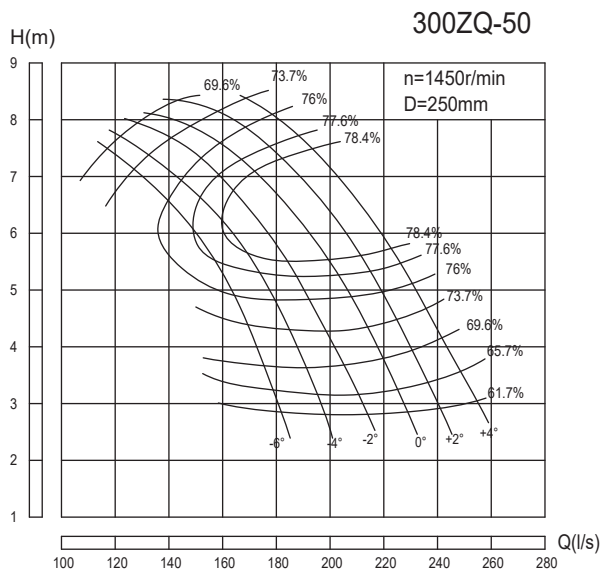


Notice: The dimensions of S, Q, R and K are according to the user's requirements

①The recommended distance between the pump center and the back wall is 290*

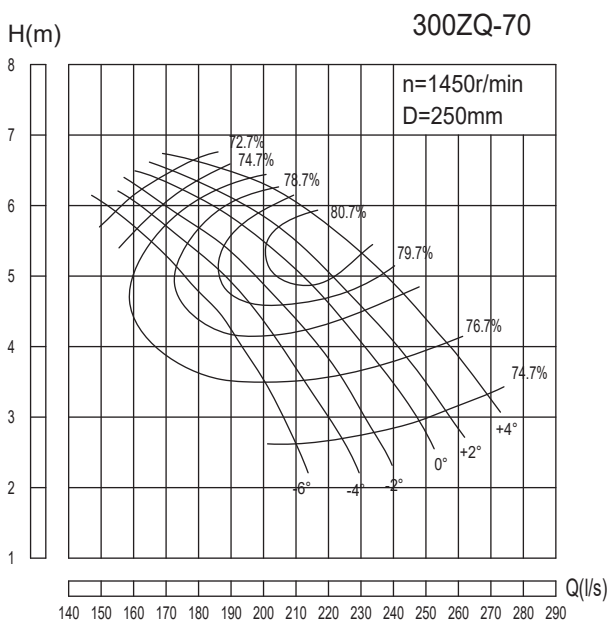
②The center distance between two pumps in the same tank shall not be less than 1200*

③The size with * is for reference only



300ZQ-50 Performance Parameter Table

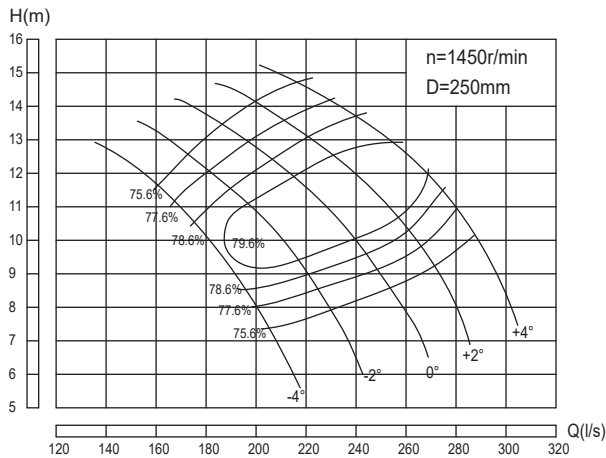
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	636.8	176.9	3.24	1450	8.6	15	65.7	250
	537.5	149.3	5.92		11.1		77.9	
	425.5	118.2	7.46		12.3		70.6	
-4°	691.6	192.1	3.18		9.1	18.5	65.7	
	584.3	162.3	6.11		12.3		79.1	
	439.2	122	7.81		13.2		70.6	
-2°	746.6	207.4	3.18		9.8	18.5	65.7	
	601.9	167.2	6.29		13		79.1	
	460.8	128	8.03		14.3		70.6	
0°	806.4	224	3.33		11.1	18.5	65.7	
	668.5	185.7	6.32		14.5		79.3	
	533.9	148.3	7.92		15.6		73.7	
+2°	855	237.5	3.41		12.1	22	65.7	
	703.8	195.5	6.48		15.7		79.1	
	574.6	159.6	8.18		17.4		73.7	
+4°	887.8	246.6	3.7		13.6	22	65.7	
	740.2	205.6	6.66		17		79.1	
	601.6	167.1	8.33		18.5		73.7	



300ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	749.9	208.3	2.6	1450	6.9	15	76.9	250
	666.7	185.2	4.58		10.3		80.9	
	552.2	153.4	5.9		11.9		74.9	
-4°	802.1	222.8	2.67		7.6	18.5	76.9	
	683.3	189.8	4.86		11		82.1	
	572.8	159.1	6.17		12.9		74.9	
-2°	843.8	234.4	2.78		8.3	18.5	76.9	
	718.9	199.7	5.07		12.1		82.3	
	585.4	162.6	6.25		13.3		74.9	
0°	885.2	245.9	2.99		9.4	18.5	76.9	
	748.1	207.8	5.29		12.9		83.4	
	600.1	166.7	6.46		14.1		74.9	
+2°	916.6	254.6	3.13		10.2	18.5	76.9	
	766.8	213	5.35		13.3		83.8	
	606.2	168.4	6.53		14.4		74.9	
+4°	962.6	267.4	3.4		11.6	18.5	76.9	
	796	221.1	5.69		14.9		82.9	
	643.7	178.8	6.67		15.6		74.9	

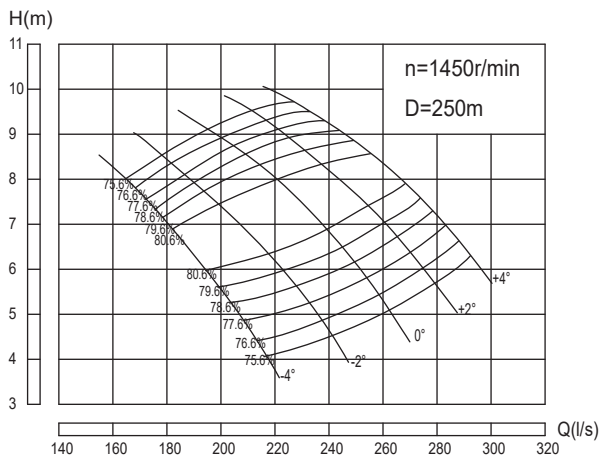
350HQ-40



350HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	739.4	205.4	7.38	1450	19.7	30	75.6	250
	677.2	188.1	9.48		22		79.4	
	581.4	161.5	11.74		24.6		75.6	
-2°	829.1	230.3	7.96		23.8	30	75.6	
	749.9	208.3	10.28		26.4		79.6	
	625	173.6	12.66		28.5		75.6	
0°	910.4	252.9	8.59		28.2	37	75.6	
	812.5	225.7	11.18		31		79.9	
	672.8	186.9	13.59		33		75.6	
$+2^\circ$	977	271.4	9.29		32.7	45	75.6	
	875.2	243.1	11.81		34.9		80.6	
	718.9	199.7	14.27		37		75.6	
$+4^\circ$	1035.4	287.6	10.24		38.2	45	75.6	
	937.4	260.4	12.64		40.3		80.1	
	781.2	217	14.85		41.8		75.6	

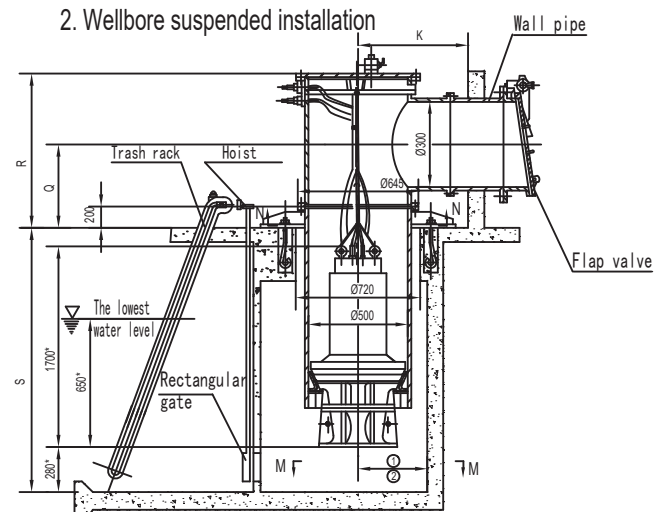
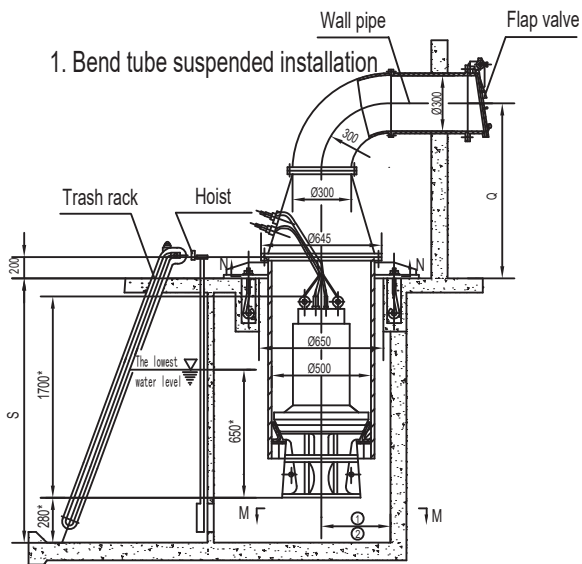
350HQ-50



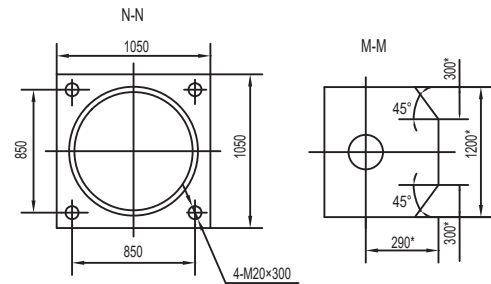
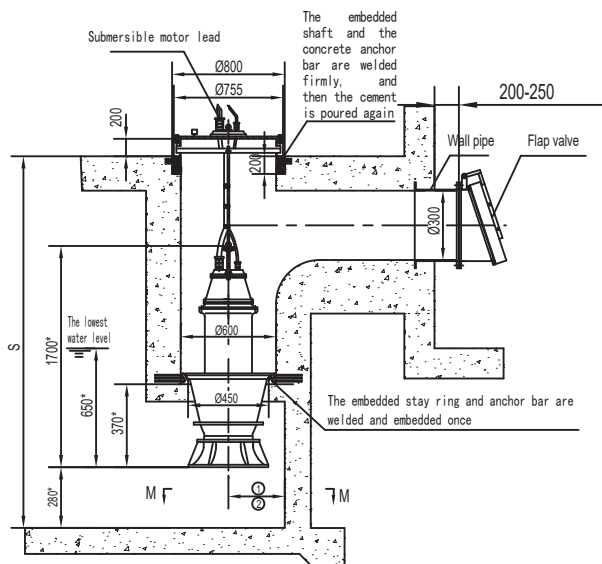
350HQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	768.6	213.5	4.41	1450	12.1	18.5	76.6	250
	666.7	185.2	6.74		15.2		80.6	
	601.9	167.2	7.81		16.7		76.6	
-2°	854.3	237.3	4.86		14.8	22	76.6	
	729	202.5	7.29		17.9		80.7	
	654.1	181.7	8.33		19.4		76.6	
0°	931.3	258.7	5.42		18	30	76.6	
	812.5	225.7	7.64		21		80.6	
	720.7	200.2	8.92		22.9		76.6	
$+2^\circ$	989.6	274.9	6.04		21.3	30	76.6	
	854.3	237.3	8.33		24.1		80.6	
	783.4	217.6	9.31		25.9		76.6	
$+4^\circ$	1037.5	288.2	6.6		24.4	30	76.6	
	916.6	254.6	8.61		26.7		80.6	
	837.4	232.6	9.51		28.3		76.6	

Outline Installation Dimension Diagram 300ZQ-50,300ZQ-70,350HQ-40,350HQ-50

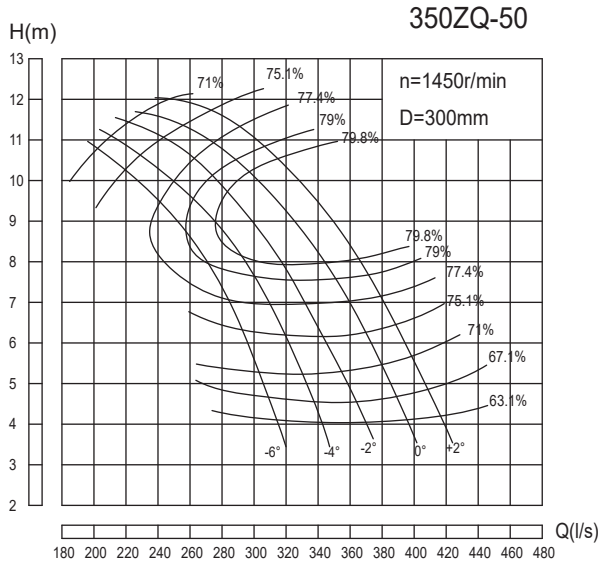


3. Precast concrete wellbore installation



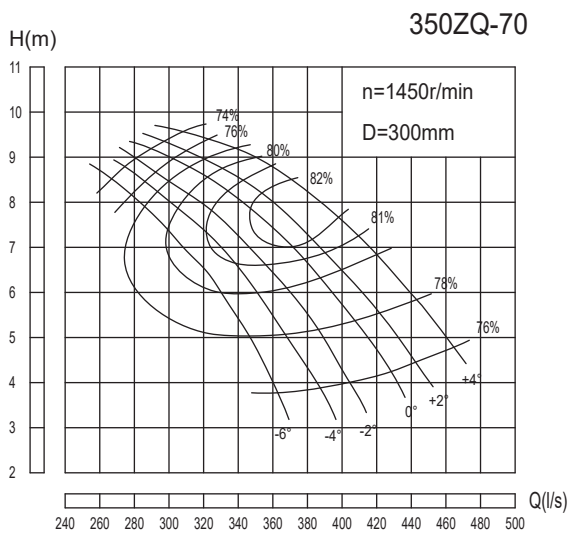
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- ②The center distance between two pumps in the same tank shall not be less than 1200*
- ③The size with * is for reference only



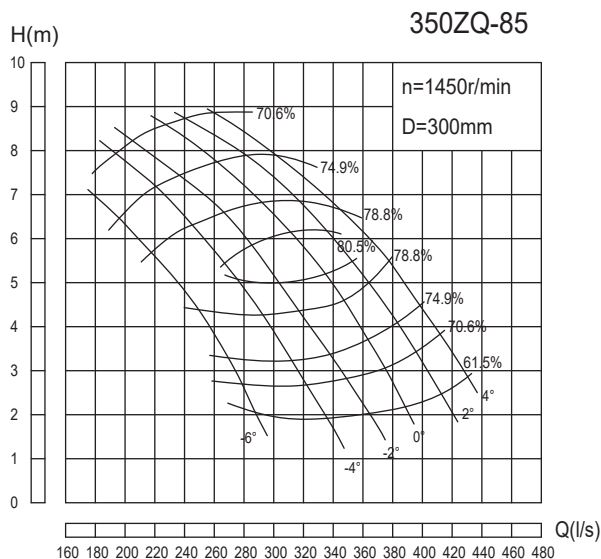
350ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	1100.5	305.7	4.67	1450	20.9	37	67.1	300
	928.8	258	8.53		27.2		79.3	
	735.5	204.3	10.74		29.9		72	
-4°	1195.2	332	4.58		22.2	37	67.1	
	1009.8	280.5	8.79		30		80.5	
	758.9	210.8	11.25		32.3		72	
-2°	1290.2	358.4	4.58		24	37	67.1	
	1040.4	289	9.05		31.9		80.5	
	796.3	221.2	11.56		34.8		72	
0°	1393.2	387	4.8		27.2	45	67.1	
	1155.6	321	9.1		35.5		80.7	
	922.7	256.3	11.4		38.2		75.1	
+2°	1477.8	410.5	4.91		29.5	45	67.1	
	1216.4	337.9	9.33		38.4		80.5	
	992.9	275.8	11.78		42.4		75.1	



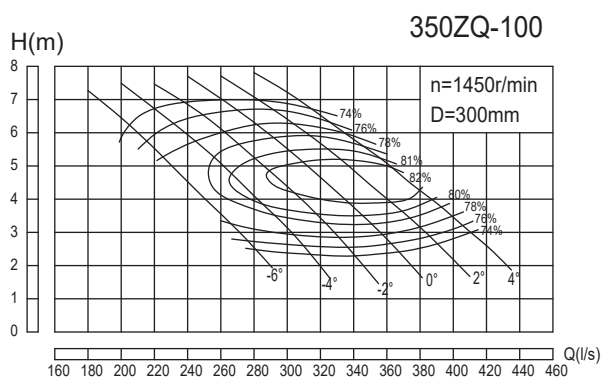
350ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	1296	360	3.75	1450	17.4	37	76	300
	1152	320	6.6		25.9		80	
	954	265	8.5		29.9		74	
-4°	1386	385	3.85		19.1	37	76	
	1180.8	328	7		27.7		81.2	
	990	275	8.88		32.4		74	
-2°	1458	405	4		20.9	37	76	
	1242	345	7.3		30.4		81.4	
	1011.6	281	9		33.5		74	
0°	1530	425	4.3		23.6	37	76	
	1292.4	359	7.62		32.5		82.5	
	1036.8	288	9.3		35.5		74	
+2°	1584	440	4.5		25.6	37	76	
	1324.8	368	7.7		33.5		82.9	
	1047.6	291	9.4		36.3		74	
+4°	1663.2	462	4.9		29.2	45	76	
	1375.2	382	8.2		37.5		82	
	1112.4	309	9.6		39.3		74	



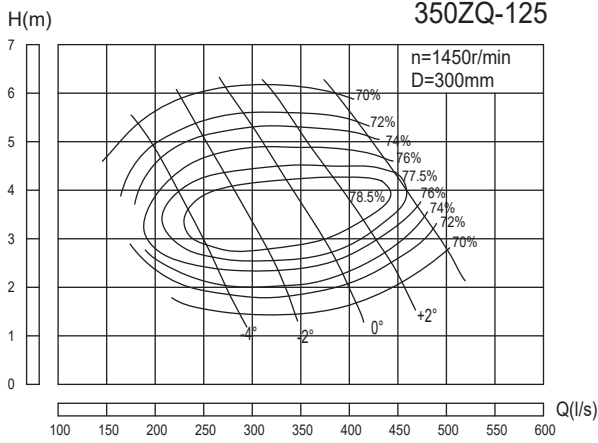
350ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	975.6	271	2.79	1450	10.5	18.5	70.7	300
	892.8	248	4.24		12.9		79.7	
	630	175	7.15		17.4		70.7	
-4°	1130.4	314	2.7		11.8	22	70.7	
	964.8	268	5.2		16.9		80.7	
	691.2	192	7.59		20.2		70.7	
-2°	1270.8	353	2.79		13.7	30	70.7	
	1098	305	5.1		18.9		80.7	
	759.6	211	7.95		23.3		70.7	
0°	1368	380	3.05		16.1	30	70.7	
	1202.4	334	5.29		21.2		81.7	
	835.2	232	8.25		26.6		70.7	
+2°	1461.6	406	3.5		19.7	37	70.7	
	1285.2	357	5.65		24.5		80.7	
	910.8	253	8.49		29.8		70.7	
+4°	1555.2	432	3.93		23.6	37	70.7	
	1314	365	6.39		28.7		79.7	
	993.6	276	8.48		32.5		70.7	



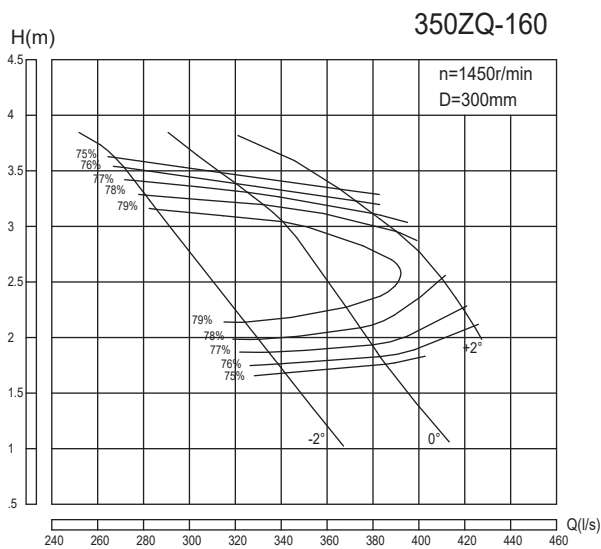
350ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	957.6	266	3.2	1450	10.7	18.5	78	300
	900	250	4.03		12.4		79.6	
	810	225	5.3		15		78	
-4°	1094.4	304	2.93		11.2	22	78	
	1008	280	4.1		13.9		81.1	
	880.2	244.5	5.75		17.7		78	
-2°	1191.6	331	2.85		11.9	22	78	
	1098	305	4.21		15.4		81.7	
	943.2	262	6.03		19.9		78	
0°	1285.2	357	2.94		13.2	30	78	
	1188	330	4.2		16.6		82	
	1013.4	281.5	6.25		22.1		78	
+2°	1368	380	3.17		15.2	30	78	
	1260	350	4.43		18.4		82.5	
	1094.4	304	6.27		24		78	
+4°	1440	400	3.48		17.5	37	78	
	1350	375	4.45		19.9		82.2	
	1206	335	6		25.3		78	



350ZQ-125 Performance Parameter Table

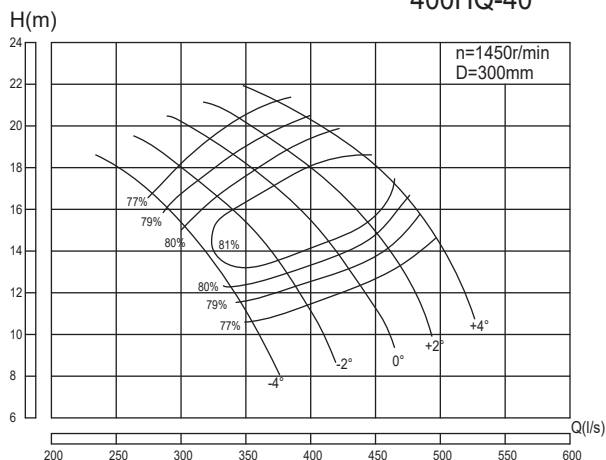
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	979.2	272	2.04	1450	7.4	15	74	300
	892.8	248	3.03		9.4		78.5	
	712.8	198	4.93		13.3		72	
-2°	1198.8	333	2.03		9	22	74	
	1105.2	307	3.14		12		78.9	
	871.2	242	5.34		17.6		72	
0°	1414.8	393	2.28		11.9	30	74	
	1303.2	362	3.46		15.5		79.5	
	1047.6	291	5.6		22.2		72	
+2°	1573.2	437	2.7		15.6	37	74	
	1447.2	402	3.58		17.9		78.9	
	1213.2	337	5.6		25.7		72	
+4°	1717.2	477	3.46		21.9	37	74	
	1645.2	457	3.96		22.8		77.8	
	1468.8	408	5.41		30.1		72	



350ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	1219	338.6	1.76	1450	7.7	15	76	300
	1116	310	2.49		9.4		80.5	
	977.4	271.5	3.53		12.4		76	
0°	1377.7	382.7	1.82		9	15	76	
	1296	360	2.5		11.1		79.5	
	1154.5	320.7	3.38		14		76	
+2°	1526.8	424.1	2.1		11.5	18.5	76	
	1447.2	402	2.7		13.7		78	
	1340.6	372.4	3.23		15.5		76	

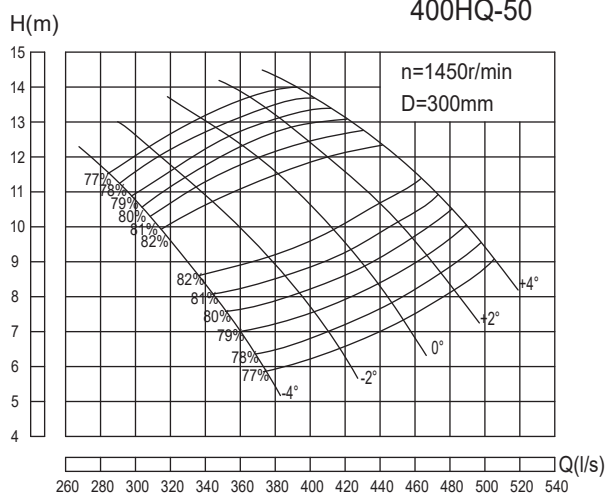
400HQ-40



400HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	1278	355	10.63	1450	48.1		77	300
	1170	325	13.65		53.9	75	80.8	
	1004.4	279	16.9		60.1		77	
-2°	1432.8	398	11.46		58.1		77	
	1296	360	14.8		64.5	75	81	
	1080	300	18.23		69.7		77	
0°	1573.2	437	12.37		68.9		77	
	1404	390	16.1		75.8	90	81.3	
	1162.8	323	19.57		80.5		77	
+2°	1688.4	469	13.38		79.9		77	
	1512	420	17		85.4	110	82	
	1242	345	20.55		90.3		77	
+4°	1789.2	497	14.75		93.4		77	
	1620	450	18.2		98.6	110	81.5	
	1350	375	21.38		102.1		77	

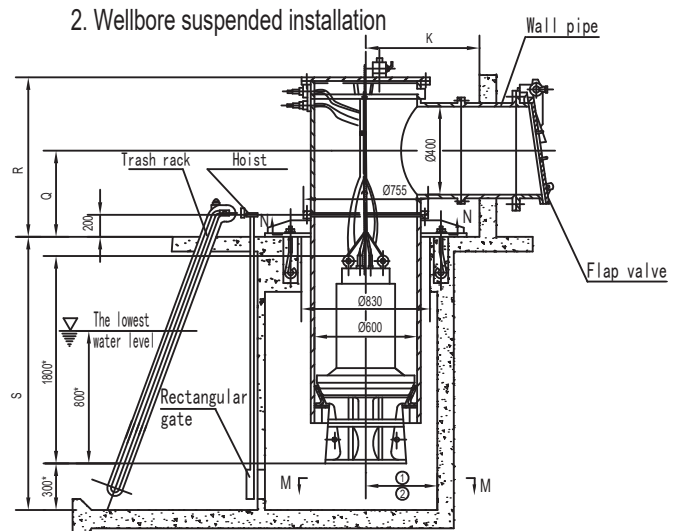
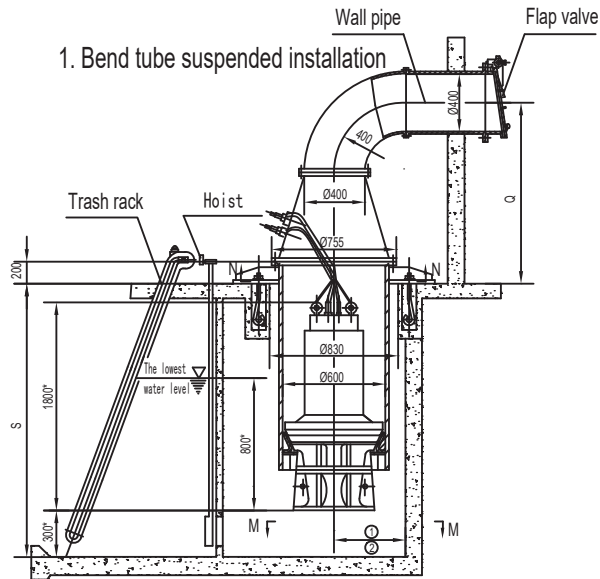
400HQ-50



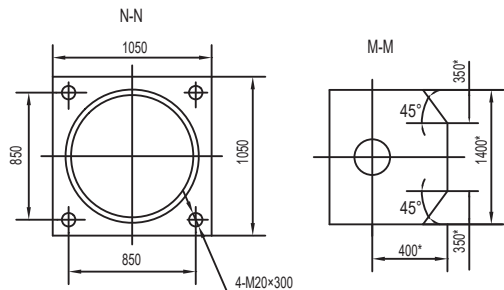
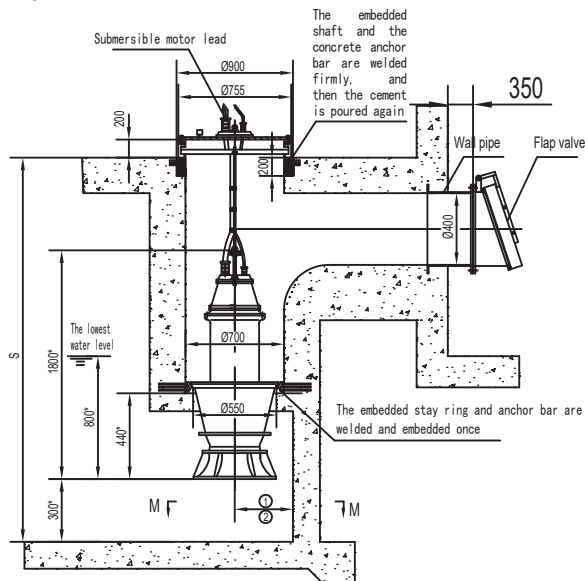
400HQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	1328.4	369	6.35	1450	29.5		78	300
	1152	320	9.7		37.1	45	82	
	1040.4	289	11.25		40.9		78	
-2°	1476	410	7		36.1		78	
	1260	350	10.5		43.9	55	82.1	
	1130.4	314	12		47.4		78	
0°	1609.2	447	7.8		43.9		78	
	1404	390	11		51.3	75	82	
	1245.6	346	12.85		55.9		78	
+2°	1710	475	8.7		52		78	
	1476	410	12		58.9	75	82	
	1353.6	376	13.4		63.4		78	
+4°	1792.8	498	9.5		59.5		78	
	1584	440	12.4		65.3	75	82	
	1447.2	402	13.7		69.3		78	

Outline Installation Dimension Diagram 350ZQ-50,350ZQ-70,350ZQ-85,350ZQ-100,350ZQ-125, 350ZQ-160,400HQ-40,400HQ-50



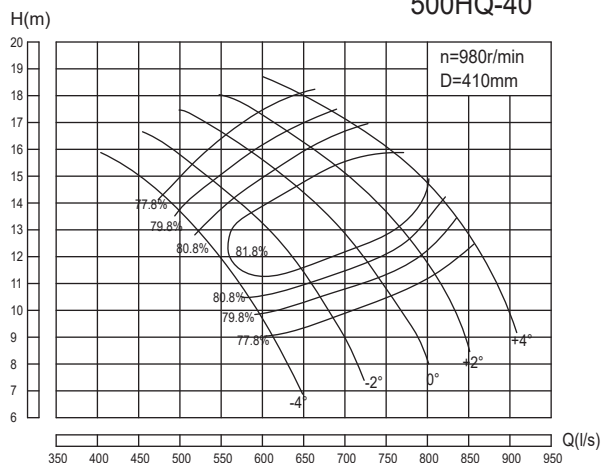
3. Precast concrete wellbore installation



Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 290*
- ②The center distance between two pumps in the same tank shall not be less than 1200*
- ③The size with * is for reference only

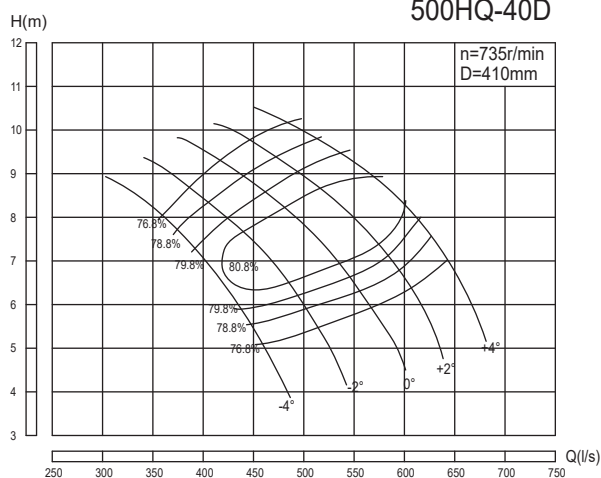
500HQ-40



500HQ-40 Performance Parameter Table

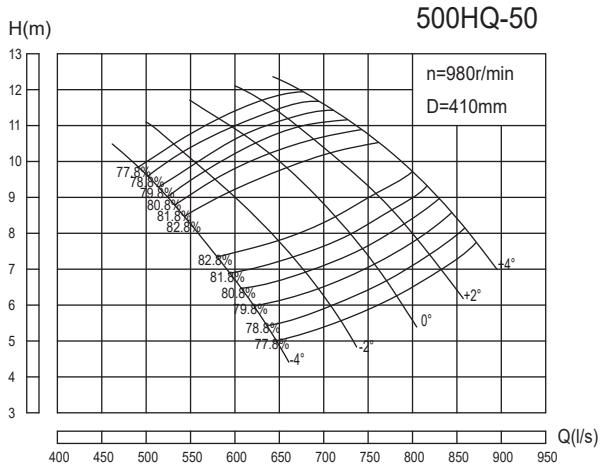
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2205	612.5	9.07	980	70	90	77.8	410
	2018.5	560.7	11.65		78.5		81.6	
	1732.7	481.3	14.42		87.5		77.8	
-2°	2471.8	686.6	9.78		84.7	110	77.8	
	2236	621.1	12.63		94.1		81.8	
	1863.4	517.6	15.55		101.5		77.8	
0°	2714	753.9	10.55		100.3	132	77.8	
	2422.1	672.8	13.74		110.5		82.1	
	2005.9	557.2	16.7		117.3		77.8	
+2°	2912.8	809.1	11.42		116.5	160	77.8	
	2608.6	724.6	14.5		124.5		82.8	
	2142.7	595.2	17.53		131.6		77.8	
+4°	3086.6	857.4	12.58		136	160	77.8	
	2795	776.4	15.53		143.7		82.3	
	2329.2	647	18.24		148.8		77.8	

500HQ-40D



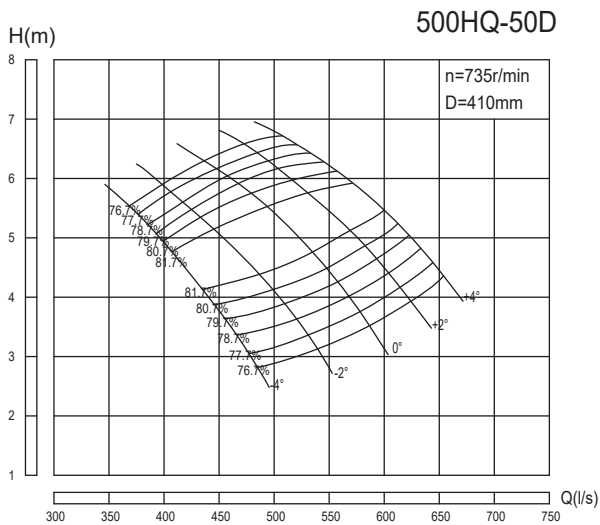
500HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	1653.5	459.3	5.1	735	29.9	45	76.8	410
	1513.8	420.5	6.55		33.5		80.6	
	1299.6	361	8.11		37.4		76.8	
-2°	1854	515	5.5		36.2	45	76.8	
	1676.9	465.8	7.1		40.2		80.8	
	1397.5	388.2	8.75		43.4		76.8	
0°	2035.4	565.4	5.94		42.9	55	76.8	
	1816.6	504.6	7.73		47.2		81.1	
	1504.4	417.9	9.39		50.1		76.8	
+2°	2184.5	606.8	6.42		49.8	75	76.8	
	1956.2	543.4	8.16		53.2		81.8	
	1607	446.4	9.86		56.2		76.8	
+4°	2315.2	643.1	7.08		58.2	75	76.8	
	2096.3	582.3	8.73		61.3		81.3	
	1746.7	485.2	10.26		63.6		76.8	



500HQ-50 Performance Parameter Table

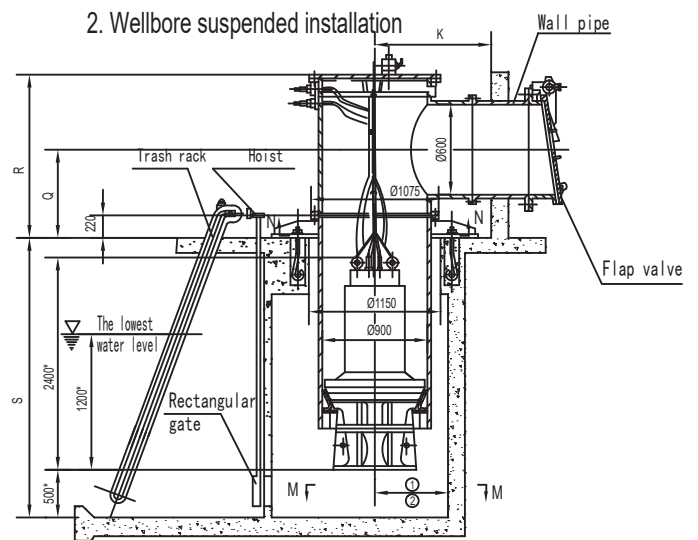
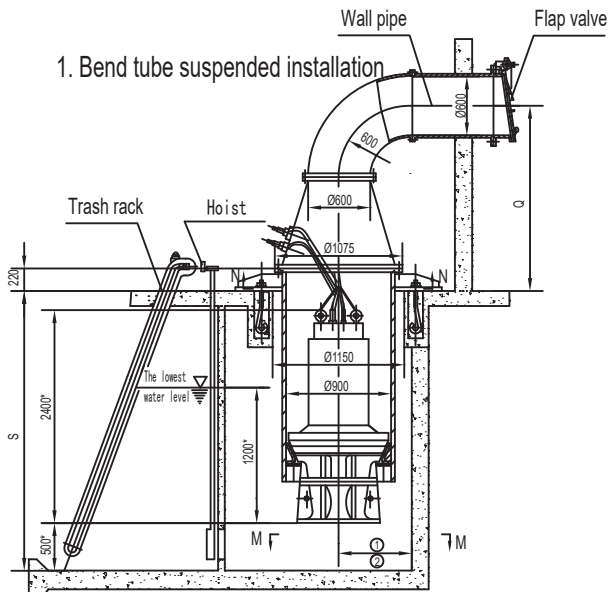
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2291.8	636.6	5.42	980	43	75	78.8	410
	1987.6	552.1	8.28		54.2		82.8	
	1795	498.6	9.6		59.6		78.8	
-2°	2546.3	707.3	5.97		52.6	75	78.8	
	2173.7	603.8	8.96		64		82.9	
	1950.1	541.7	10.24		69.1		78.8	
0°	2776.3	771.2	6.65		63.8	90	78.8	
	2422.1	672.8	9.38		74.8		82.8	
	2148.8	596.9	10.96		81.4		78.8	
+2°	2950.2	819.5	7.42		75.7	110	78.8	
	2546.3	707.3	10.24		85.8		82.8	
	2335.3	648.7	11.43		92.3		78.8	
+4°	3093.1	859.2	8.11		86.7	110	78.8	
	2732.8	759.1	10.58		95.2		82.8	
	2496.6	693.5	11.69		100.9		78.8	



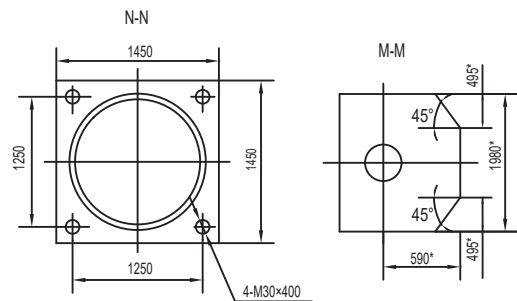
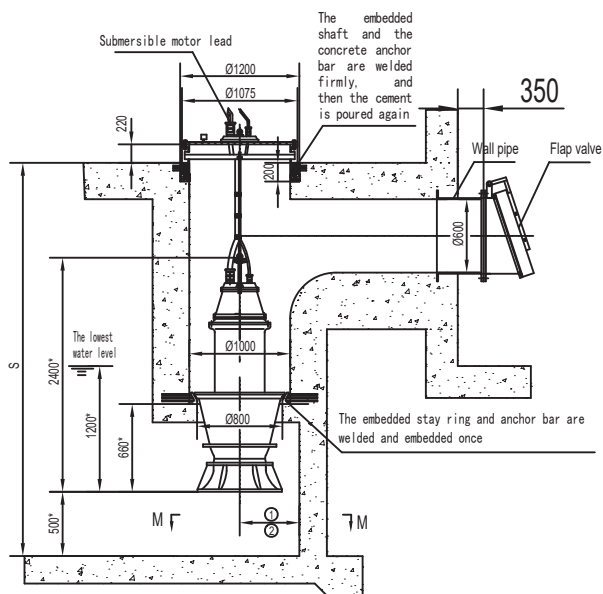
500HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	1719	477.5	3.05	735	18.4	30	77.8	410
	1490.8	414.1	4.66		23.1		81.8	
	1346	373.9	5.4		25.5		77.8	
-2°	1909.8	530.5	3.36		22.5	37	77.8	
	1630.4	452.9	5.04		27.3		81.9	
	1462.7	406.3	5.76		29.5		77.8	
0°	2082.2	578.4	3.74		27.3	37	77.8	
	1816.6	504.6	5.28		32		81.8	
	1611.7	447.7	6.17		34.8		77.8	
+2°	2212.6	614.6	4.18		32.4	45	77.8	
	1909.8	530.5	5.76		36.6		81.8	
	1751.4	486.5	6.43		39.4		77.8	
+4°	2319.8	644.4	4.56		37.1	45	77.8	
	2049.5	569.3	5.95		40.6		81.8	
	1872.7	520.2	6.57		43.1		77.8	

Outline Installation Dimension Diagram 500HQ-40,500HQ-50,500HQ-40D,500HQ-50D

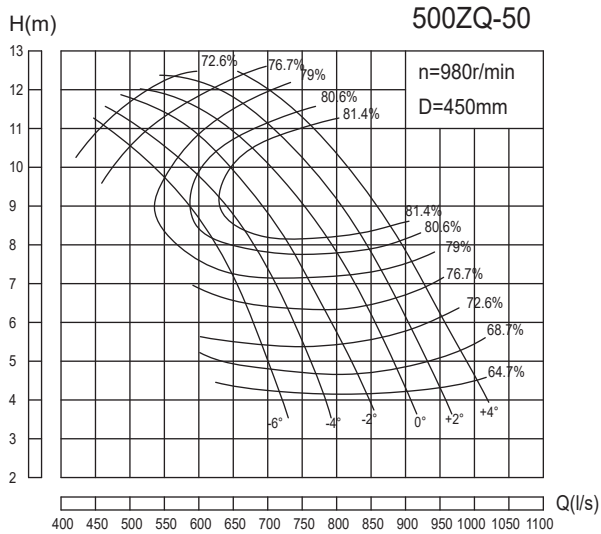


3. Precast concrete wellbore installation



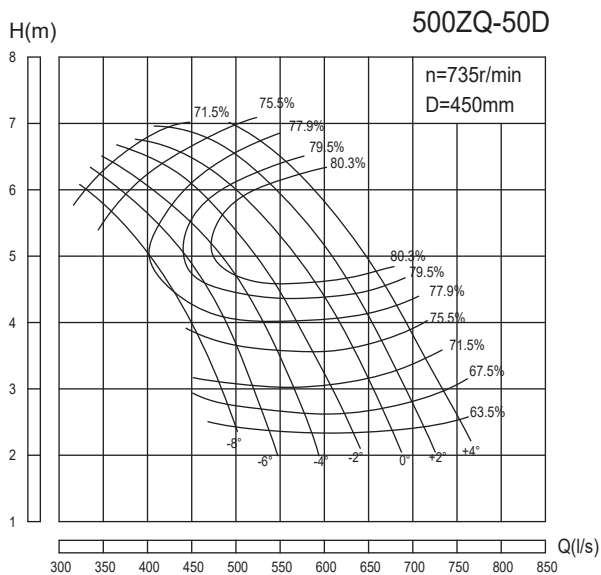
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 590*
- ②The center distance between two pumps in the same tank shall not be less than 1980*
- ③The size with * is for reference only



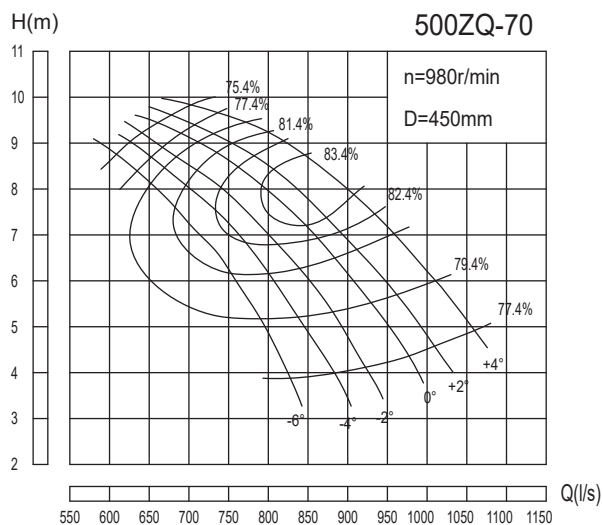
500ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2510.6	697.4	4.8	980	47.8	75	68.7	450
	2118.6	588.5	8.77		62.6		80.9	
	1677.2	465.9	11.04		68.6		73.6	
-4°	2726.3	757.3	4.71		50.9	90	68.7	
	2303.3	639.8	9.04		69.1		82.1	
	1730.9	480.8	11.56		74.1		73.6	
-2°	2943.4	817.6	4.71		55	90	68.7	
	2372.8	659.1	9.31		73.3		82.1	
	1816.2	504.5	11.88		79.9		73.6	
0°	3178.4	882.9	4.93		62.2	110	68.7	
	2635.6	732.1	9.35		81.6		82.3	
	2104.6	584.6	11.72		87.6		76.7	
+2°	3370.7	936.3	5.04		67.4	110	68.7	
	2774.5	770.7	9.59		88.3		82.1	
	2264.8	629.1	12.11		97.4		76.7	
+4°	3498.8	971.9	5.47		75.9	110	68.7	
	2917.8	810.5	9.85		95.4		82.1	
	2371.7	658.8	12.33		103.9		76.7	



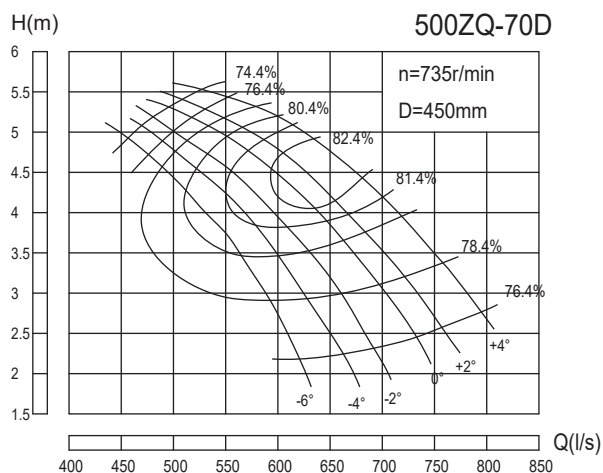
500ZQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	1882.8	523	2.7	735	20.5	37	67.6	450
	1589	441.4	4.93		26.8		79.8	
	1257.8	349.4	6.21		29.4		72.5	
-4°	2044.8	568	2.65		21.8	37	67.6	
	1727.6	479.9	5.08		29.5		81	
	1298.2	360.6	6.5		31.7		72.5	
-2°	2207.5	613.2	2.65		23.6	37	67.6	
	1779.5	494.3	5.23		31.3		81	
	1362.2	378.4	6.68		34.2		72.5	
0°	2383.9	662.2	2.77		26.6	45	67.6	
	1976.8	549.1	5.26		34.9		81.2	
	1578.6	438.5	6.59		37.5		75.6	
+2°	2527.9	702.2	2.84		28.9	45	67.6	
	2080.8	578	5.39		37.7		81	
	1698.8	471.9	6.81		41.7		75.6	
+4°	2624	728.9	3.08		32.6	55	67.6	
	2188.1	607.8	5.54		40.8		81	
	1778.8	494.1	6.94		44.5		75.6	



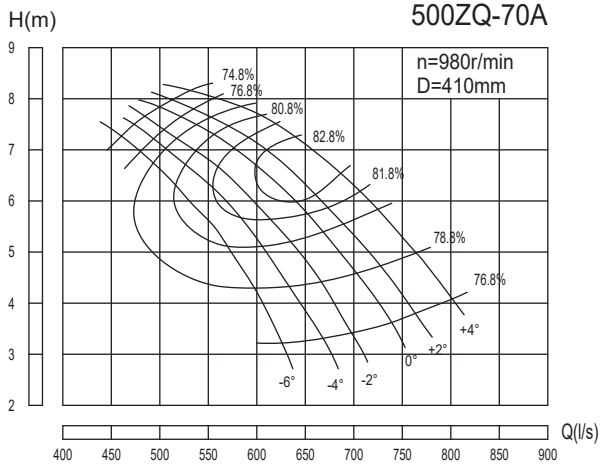
500ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2956.3	821.2	3.85	980	39.2	75	79.2	450
	2627.6	729.9	6.78		58.3		83.2	
	2176.2	604.5	8.74		67.1		77.2	
-4°	3161.5	878.2	3.96		43.1	75	79.2	
	2693.5	748.2	7.19		62.5		84.4	
	2258.3	627.3	9.13		72.8		77.2	
-2°	3325.7	923.8	4.11		47	90	79.2	
	2833.2	787	7.5		68.4		84.6	
	2307.6	641	9.25		75.3		77.2	
0°	3489.8	969.4	4.42		53.1	90	79.2	
	2948	818.9	7.83		73.4		85.7	
	2364.8	656.9	9.56		79.8		77.2	
+2°	3613.3	1003.7	4.62		57.4	90	79.2	
	3021.8	839.4	7.91		75.7		86.1	
	2389.7	663.8	9.66		81.5		77.2	
+4°	3793.7	1053.8	5.04		65.8	110	79.2	
	3137	871.4	8.43		84.6		85.2	
	2537.3	704.8	9.87		88.4		77.2	



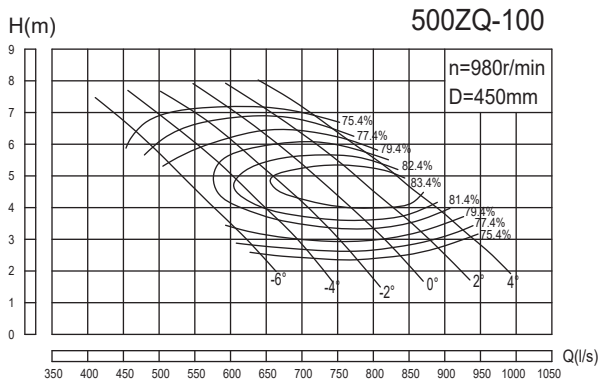
500ZQ-70D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2217.2	615.9	2.17	735	16.7	37	78.4	450
	1970.6	547.4	3.82		24.9		82.4	
	1632.2	453.4	4.91		28.6		76.4	
-4°	2371	658.6	2.23		18.4	37	78.4	
	2020	561.1	4.05		26.7		83.6	
	1693.8	470.5	5.13		31		76.4	
-2°	2494.4	692.9	2.31		20	37	78.4	
	2124.7	590.2	4.22		29.2		83.8	
	1730.5	480.7	5.2		32.1		76.4	
0°	2617.6	727.1	2.49		22.7	37	78.4	
	2211.1	614.2	4.41		31.3		84.9	
	1773.7	492.7	5.38		34		76.4	
+2°	2709.7	752.7	2.6		24.5	37	78.4	
	2266.6	629.6	4.45		32.2		85.3	
	1792.1	497.8	5.43		34.7		76.4	
+4°	2845.4	790.4	2.83		28	45	78.4	
	2352.6	653.5	4.74		36		84.4	
	1903	528.6	5.55		37.7		76.4	



500ZQ-70A Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2236	621.1	3.2	980	25.4	45	76.8	410
	1987.6	552.1	5.63		37.7		80.8	
	1645.9	457.2	7.25		43.5		74.8	
-4°	2391.1	664.2	3.28		27.8	55	76.8	
	2037.2	565.9	5.97		40.4		82	
	1707.8	474.4	7.58		47.2		74.8	
-2°	2515.3	698.7	3.41		30.4	55	76.8	
	2142.7	595.2	6.23		44.3		82.2	
	1745.3	484.8	7.68		48.8		74.8	
0°	2639.5	733.2	3.67		34.4	55	76.8	
	2229.8	619.4	6.5		47.4		83.3	
	1788.8	496.9	7.93		51.7		74.8	
+2°	2732.8	759.1	3.84		37.2	55	76.8	
	2285.6	634.9	6.57		48.9		83.7	
	1807.2	502	8.02		52.8		74.8	
+4°	2869.6	797.1	4.18		42.6	75	76.8	
	2372.4	659	7		54.7		82.8	
	1919.2	533.1	8.19		57.3		74.8	

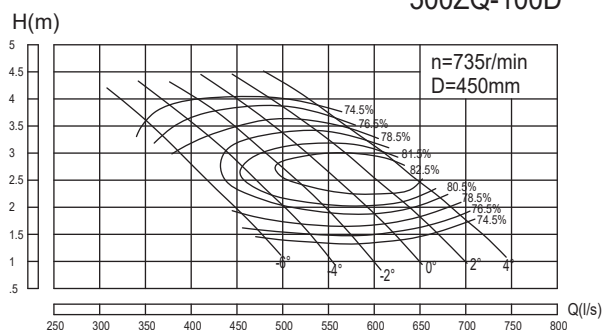


500ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2184.5	606.8	3.29	980	24.7	37	79.4	450
	2053.1	570.3	4.14		28.6		81	
	1847.5	513.2	5.45		34.6		79.4	
-4°	2496.2	693.4	3.01		25.8	45	79.4	
	2299.3	638.7	4.21		32		82.5	
	2007.7	557.7	5.91		40.7		79.4	
-2°	2718	755	2.93		27.3	55	79.4	
	2504.5	695.7	4.33		35.6		83.1	
	2151.4	597.6	6.2		45.8		79.4	
0°	2931.5	814.3	3.02		30.4	55	79.4	
	2709.7	752.7	4.32		38.2		83.4	
	2311.6	642.1	6.42		50.9		79.4	
+2°	3120.5	866.8	3.26		34.9	75	79.4	
	2874.2	798.4	4.55		42.5		83.9	
	2496.2	693.4	6.44		55.2		79.4	
+4°	3284.6	912.4	3.58		40.4	75	79.4	
	3079.4	855.4	4.57		45.9		83.6	
	2750.8	764.1	6.17		58.2		79.4	

500ZQ-100D

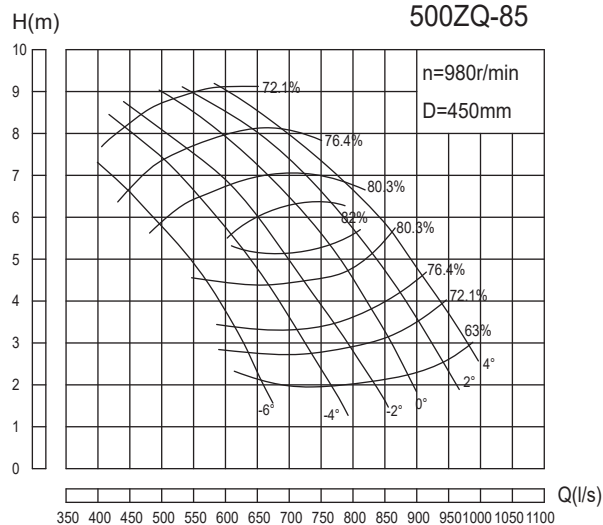
500ZQ-100D Performance Parameter Table



Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	1638.4	455.1	1.85	735	10.5		78.5	450
	1539.7	427.7	2.33		12.2	18.5	80.1	
	1385.6	384.9	3.06		14.7		78.5	
-4°	1872.4	520.1	1.69		11		78.5	
	1724.4	479	2.37		13.6	22	81.6	
	1505.9	418.3	3.32		17.4		78.5	
-2°	2038.7	566.3	1.65		11.7		78.5	
	1878.5	521.8	2.43		15.1	22	82.2	
	1613.5	448.2	3.49		19.5		78.5	
0°	2198.5	610.7	1.7		13		78.5	
	2032.6	564.6	2.43		16.3	30	82.5	
	1733.8	481.6	3.61		21.7		78.5	
+2°	2340.4	650.1	1.83		14.9		78.5	
	2155.7	598.8	2.56		18.1	30	83	
	1872.4	520.1	3.62		23.5		78.5	
+4°	2463.5	684.3	2.01		17.2		78.5	
	2309.4	641.5	2.57		19.6	30	82.7	
	2063.2	573.1	3.47		24.9		78.5	

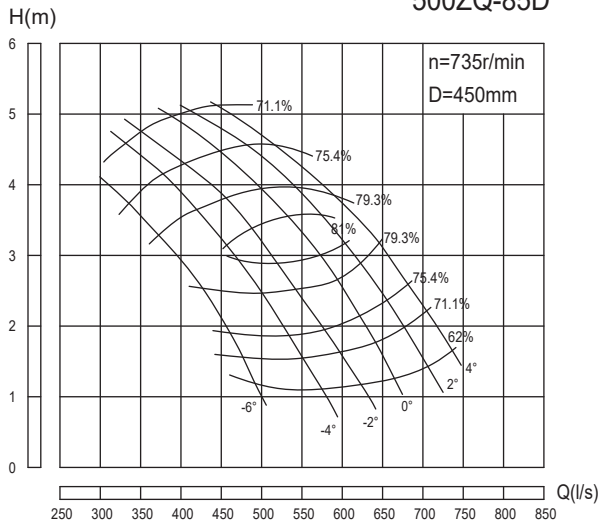
500ZQ-85

500ZQ-85 Performance Parameter Table



Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2225.5	618.2	2.87	980	24.1		72.2	450
	2036.5	565.7	4.36		29.8	45	81.2	
	1437.1	399.2	7.35		39.9		72.2	
-4°	2578.3	716.2	2.77		27		72.2	
	2200.7	611.3	5.34		39	55	82.2	
	1576.8	438	7.8		46.4		72.2	
-2°	2898.7	805.2	2.87		31.4		72.2	
	2504.5	695.7	5.24		43.5	75	82.2	
	1732.7	481.3	8.17		53.4		72.2	
0°	3120.5	866.8	3.13		36.9		72.2	
	2742.8	761.9	5.44		48.9	75	83.2	
	1905.1	529.2	8.48		61		72.2	
+2°	3334	926.1	3.6		45.3		72.2	
	2931.5	814.3	5.81		56.5	75	82.2	
	2077.6	577.1	8.73		68.5		72.2	
+4°	3547.4	985.4	4.04		54.1		72.2	
	2997.4	832.6	6.57		66.1	90	81.2	
	2266.6	629.6	8.72		74.6		72.2	

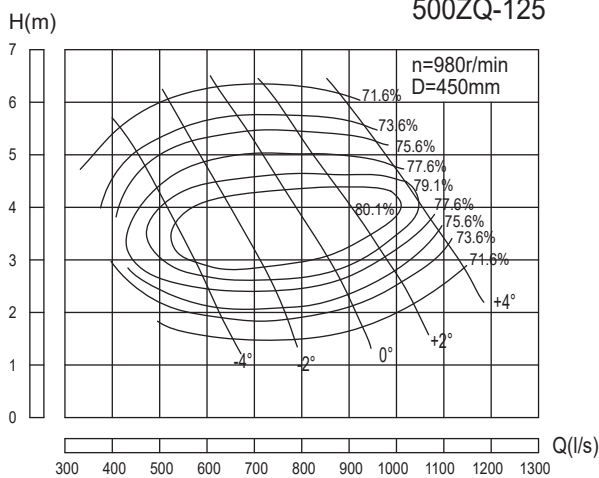
500ZQ-85D



500ZQ-85D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	1669	463.6	1.61	735	10.3	18.5	71.2	450
	1527.5	424.3	2.45		12.7		80.2	
	1077.8	299.4	4.13		17		71.2	
-4°	1933.9	537.2	1.56		11.5	22	71.2	
	1650.6	458.5	3.01		16.7		81.2	
	1182.6	328.5	4.39		19.9		71.2	
-2°	2174	603.9	1.61		13.4	30	71.2	
	1878.5	521.8	2.95		18.6		81.2	
	1299.6	361	4.6		22.9		71.2	
0°	2340.4	650.1	1.76		15.8	30	71.2	
	2057	571.4	3.06		20.9		82.2	
	1428.8	396.9	4.77		26.1		71.2	
+2°	2500.6	694.6	2.02		19.3	37	71.2	
	2198.5	610.7	3.27		24.1		81.2	
	1558.1	432.8	4.91		29.3		71.2	
+4°	2660.8	739.1	2.27		23.1	37	71.2	
	2247.8	624.4	3.69		28.2		80.2	
	1699.9	472.2	4.9		31.9		71.2	

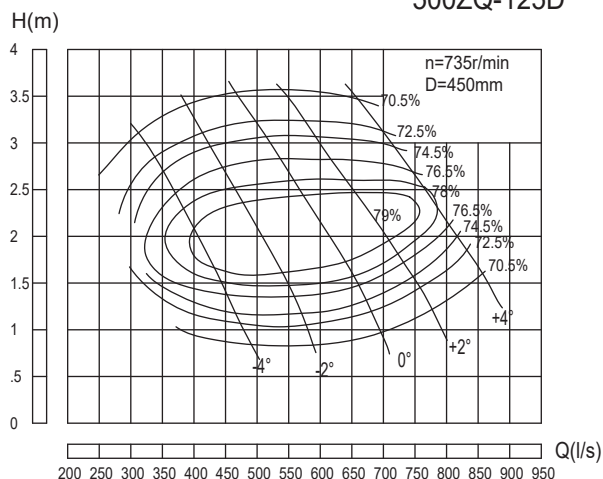
500ZQ-125



500ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2233.4	620.4	2.1	980	16.9	37	75.6	450
	2036.5	565.7	3.11		21.5		80.1	
	1625.8	451.6	5.07		30.5		73.6	
-2°	2734.6	759.6	2.09		20.6	45	75.6	
	2521.1	700.3	3.23		27.6		80.5	
	1987.2	552	5.49		40.4		73.6	
0°	3227	896.4	2.34		27.2	55	75.6	
	2972.5	825.7	3.56		35.6		81.1	
	2389.7	663.8	5.76		51		73.6	
+2°	3588.5	996.8	2.77		35.8	75	75.6	
	3301.2	917	3.68		41.1		80.5	
	2767.3	768.7	5.76		59		73.6	
+4°	3917.2	1088.1	3.56		50.3	75	75.6	
	3752.6	1042.4	4.07		52.4		79.4	
	3350.5	930.7	5.56		69		73.6	

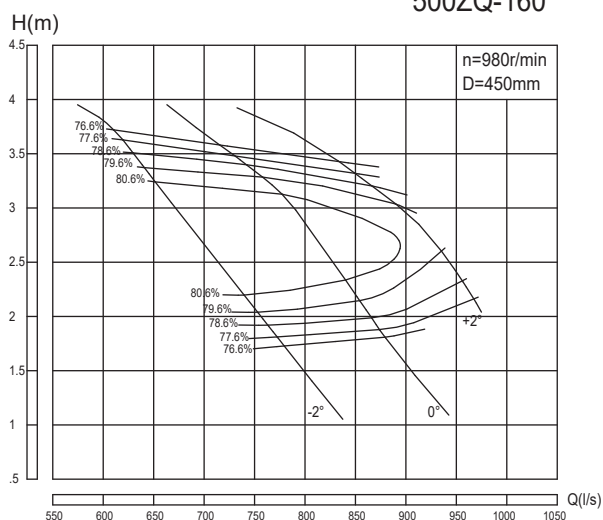
500ZQ-125D



500ZQ-125D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	1675.1	465.3	1.18	735	7.2	15	74.5	450
	1527.5	424.3	1.75		9.2		79	
	1219.3	338.7	2.85		13.1		72.5	
-2°	2050.9	569.7	1.17		8.8	18.5	74.5	
	1890.7	525.2	1.82		11.8		79.4	
	1490.4	414	3.09		17.3		72.5	
0°	2420.3	672.3	1.32		11.7	30	74.5	
	2229.5	619.3	2		15.2		80	
	1792.1	497.8	3.24		21.8		72.5	
+2°	2691.4	747.6	1.56		15.4	30	74.5	
	2475.7	687.7	2.07		17.6		79.4	
	2075.4	576.5	3.24		25.3		72.5	
+4°	2937.6	816	2		21.5	37	74.5	
	2814.5	781.8	2.29		22.4		78.3	
	2512.8	698	3.13		29.6		72.5	

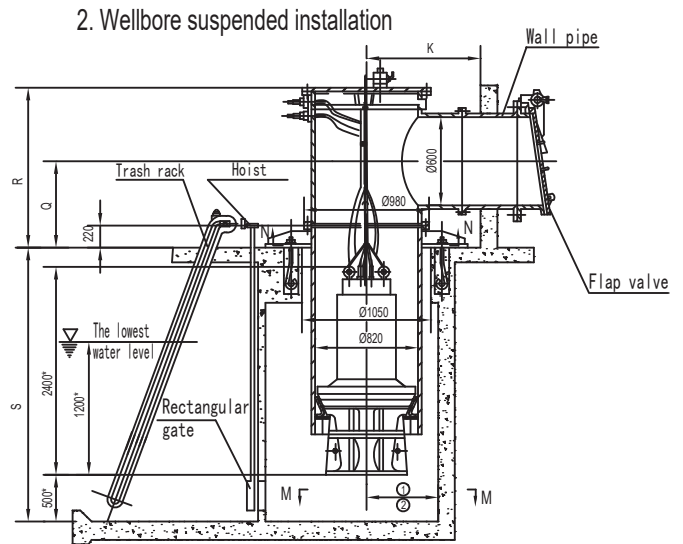
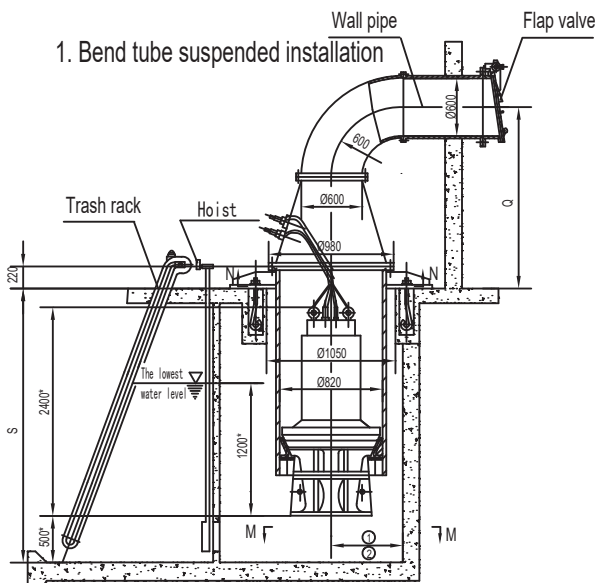
500ZQ-160



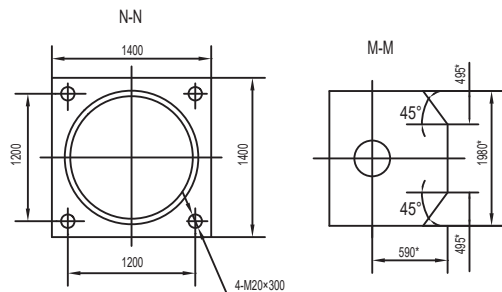
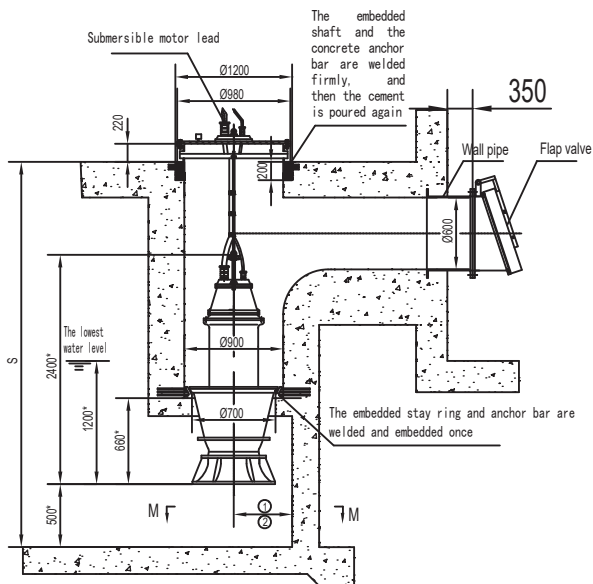
500ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	2780.6	772.4	1.81	980	17.7	37	77.6	450
	2545.6	707.1	2.56		21.6		82.1	
	2229.5	619.3	3.63		28.4		77.6	
0°	3142.8	873	1.87		20.6	37	77.6	
	2956.3	821.2	2.57		25.5		81.1	
	2633.4	731.5	3.47		32.1		77.6	
+2°	3482.6	967.4	2.16		26.4	37	77.6	
	3301.2	917	2.77		31.3		79.6	
	3058.2	849.5	3.32		35.7		77.6	

Outline Installation Dimension Diagram 500ZQ-50,500ZQ-70,500ZQ-70A,500ZQ-85,500ZQ-100, 500ZQ-125,500ZQ-160,500ZQ-50D,500ZQ-70D,500ZQ-85D, 500ZQ-100D,500ZQ-125D

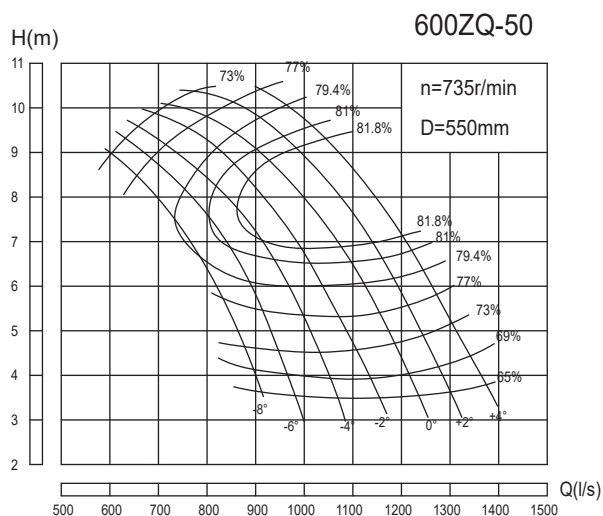


3. Precast concrete wellbore installation



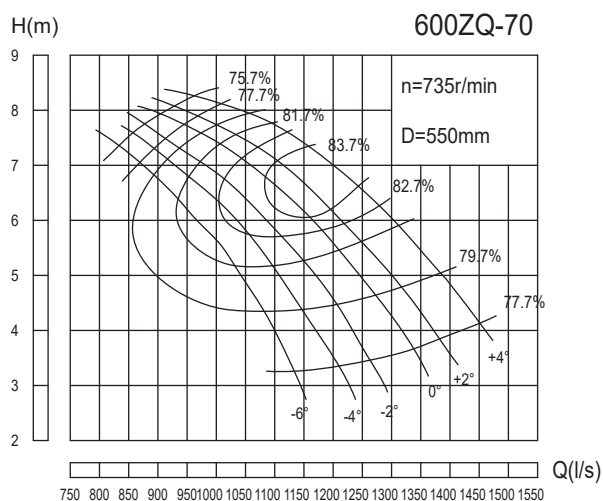
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 590*
- ②The center distance between two pumps in the same tank shall not be less than 1980*
- ③The size with * is for reference only



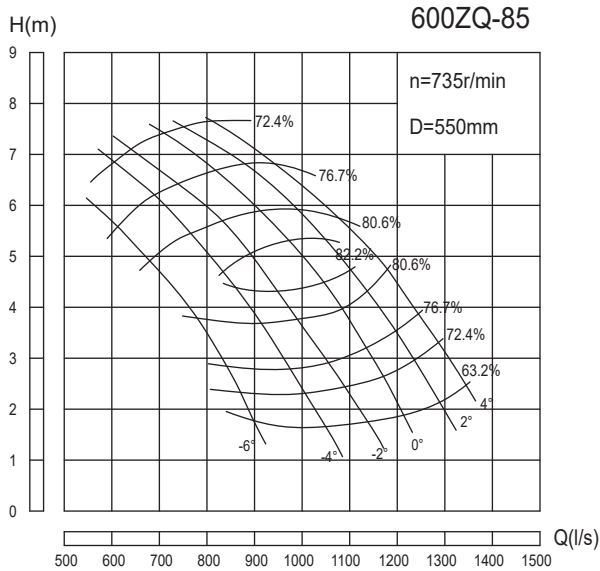
600ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3438	955	4.03	735	54.6	90	69.1	550
	2900.9	805.8	7.37		71.7		81.3	
	2296.8	638	9.28		78.5		74	
-4°	3733.6	1037.1	3.96		58.3	90	69.1	
	3154	876.1	7.59		79.1		82.5	
	2369.9	658.3	9.71		84.7		74	
-2°	4030.6	1119.6	3.96		62.9	110	69.1	
	3249	902.5	7.82		83.9		82.5	
	2486.9	690.8	9.99		91.5		74	
0°	4352.4	1209	4.14		71.1	110	69.1	
	3609	1002.5	7.86		93.5		82.7	
	2882.2	800.6	9.84		100.2		77.1	
+2°	4615.6	1282.1	4.24		77.2	132	69.1	
	3799.1	1055.3	8.05		101		82.5	
	3101.4	861.5	10.17		111.5		77.1	
+4°	4791.2	1330.9	4.6		86.9	132	69.1	
	3995.3	1109.8	8.28		109.3		82.5	
	3247.6	902.1	10.36		118.9		77.1	



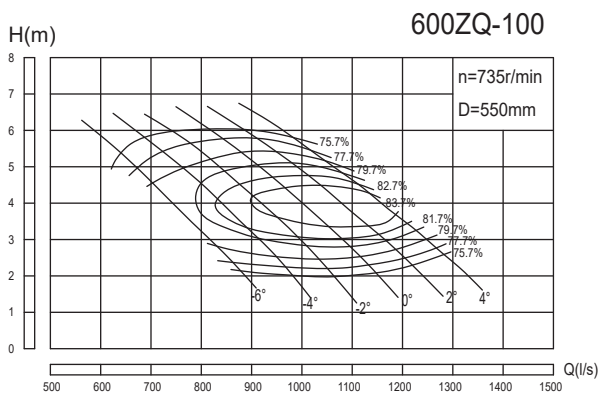
600ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	4048.2	1124.5	3.24	735	46	90	77.7	550
	3598.2	999.5	5.7		68.4		81.7	
	2979.7	827.7	7.34		78.7		75.7	
-4°	4329.4	1202.6	3.32		50.4	110	77.7	
	3688.2	1024.5	6.05		73.3		82.9	
	3092.4	859	7.67		85.4		75.7	
-2°	4554	1265	3.45		55.1	110	77.7	
	3879.4	1077.6	6.3		80.1		83.1	
	3159.7	877.7	7.77		88.4		75.7	
0°	4779	1327.5	3.71		62.2	110	77.7	
	4036.7	1121.3	6.58		86		84.2	
	3238.6	899.6	8.03		93.6		75.7	
+2°	4947.5	1374.3	3.89		67.5	110	77.7	
	4138.2	1149.5	6.65		88.6		84.6	
	3272	908.9	8.12		95.6		75.7	
+4°	5195.2	1443.1	4.23		77.1	110	77.7	
	4295.5	1193.2	7.08		99		83.7	
	3474.7	965.2	8.29		103.7		75.7	



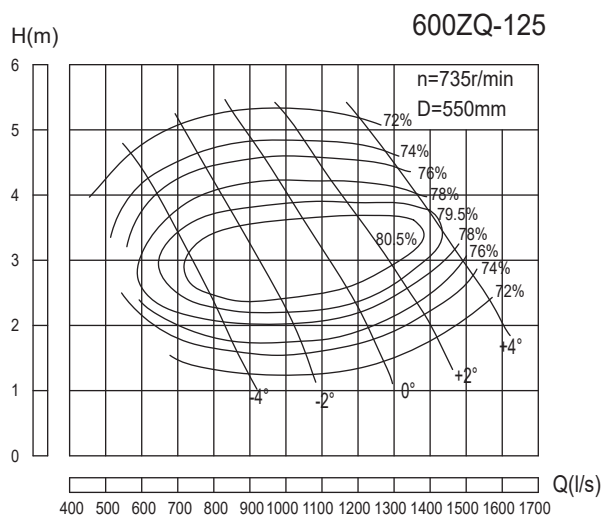
600ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3047.4	846.5	2.41	735	27.6	55	72.5	550
	2788.6	774.6	3.66		34.1		81.5	
	1967.8	546.6	6.17		45.6		72.5	
-4°	3530.9	980.8	2.33		30.9	75	72.5	
	3013.6	837.1	4.49		44.7		82.5	
	2158.9	599.7	6.55		53.2		72.5	
-2°	3969.4	1102.6	2.41		36	75	72.5	
	3429.7	952.7	4.4		49.8		82.5	
	2372.8	659.1	6.87		61.3		72.5	
0°	4272.8	1186.9	2.63		42.2	75	72.5	
	3755.9	1043.3	4.57		56		83.5	
	2608.9	724.7	7.12		69.8		72.5	
+2°	4565.2	1268.1	3.02		51.8	90	72.5	
	4014.4	1115.1	4.88		64.7		82.5	
	2844.7	790.2	7.33		78.4		72.5	
+4°	4857.8	1349.4	3.39		61.9	90	72.5	
	4104.4	1140.1	5.52		75.8		81.5	
	3103.6	862.1	7.32		85.4		72.5	



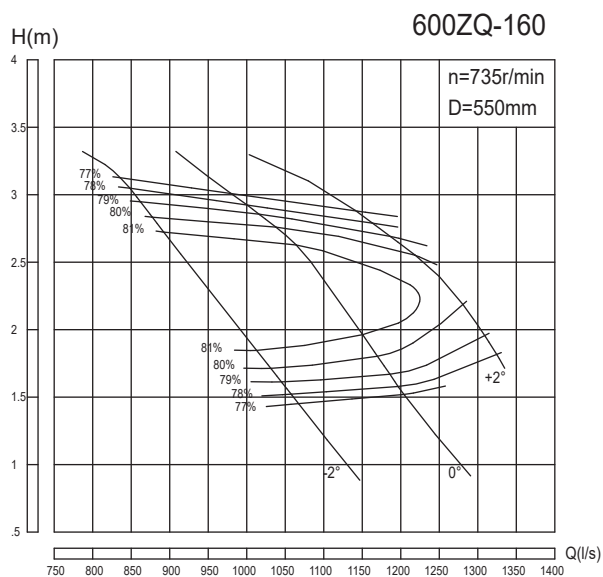
600ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	2991.2	830.9	2.76	735	28.2	45	79.8	550
	2811.2	780.9	3.48		32.8		81.4	
	2530.1	702.8	4.58		39.6		79.8	
-4°	3418.2	949.5	2.53		29.5	55	79.8	
	3148.6	874.6	3.54		36.6		82.9	
	2749.3	763.7	4.97		46.7		79.8	
-2°	3722	1033.9	2.46		31.3	55	79.8	
	3429.7	952.7	3.64		40.7		83.5	
	2946.2	818.4	5.21		52.4		79.8	
0°	4014.4	1115.1	2.54		34.8	75	79.8	
	3710.9	1030.8	3.63		43.8		83.8	
	3165.5	879.3	5.4		58.4		79.8	
+2°	4272.8	1186.9	2.74		40	75	79.8	
	3935.5	1093.2	3.83		48.7		84.3	
	3418.2	949.5	5.41		63.1		79.8	
+4°	4497.8	1249.4	3.01		46.2	75	79.8	
	4216.7	1171.3	3.84		52.5		84	
	3767	1046.4	5.18		66.6		79.8	



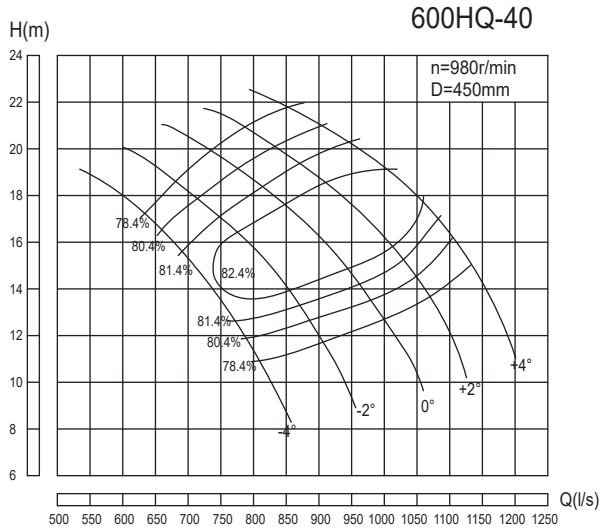
600ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3058.6	849.6	1.76	735	19.3	37	76.1	550
	2788.6	774.6	2.62		24.7		80.6	
	2226.6	618.5	4.26		34.9		74.1	
-2°	3744.4	1040.1	1.75		23.5	55	76.1	
	3452	958.9	2.71		31.5		81	
	2721.2	755.9	4.61		46.1		74.1	
0°	4419	1227.5	1.97		31.2	75	76.1	
	4070.5	1130.7	2.99		40.6		81.6	
	3272	908.9	4.84		58.2		74.1	
+2°	4914	1365	2.33		41	75	76.1	
	4520.5	1255.7	3.09		47		81	
	3789.4	1052.6	4.84		67.4		74.1	
+4°	5363.6	1489.9	2.99		57.4	90	76.1	
	5138.6	1427.4	3.42		59.9		79.9	
	4587.8	1274.4	4.67		78.8		74.1	



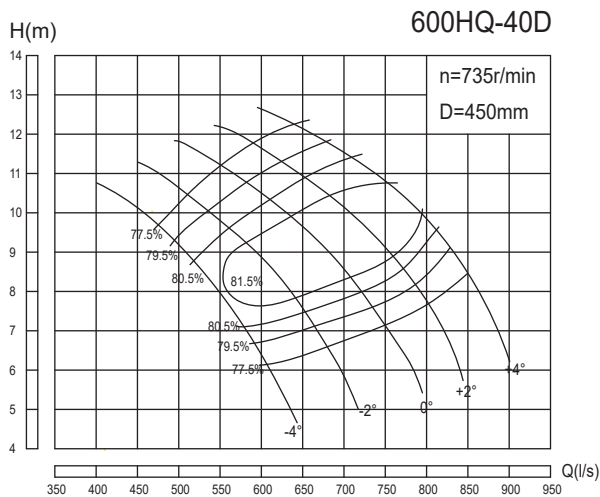
600ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	3807.7	1057.7	1.52	735	20.2	37	78	550
	3485.9	968.3	2.15		24.8		82.5	
	3052.8	848	3.05		32.5		78	
0°	4303.8	1195.5	1.57		23.6	45	78	
	4048.2	1124.5	2.16		29.2		81.5	
	3605.8	1001.6	2.92		36.8		78	
+2°	4768.9	1324.7	1.81		30.2	45	78	
	4520.5	1255.7	2.33		35.9		80	
	4187.9	1163.3	2.79		40.8		78	



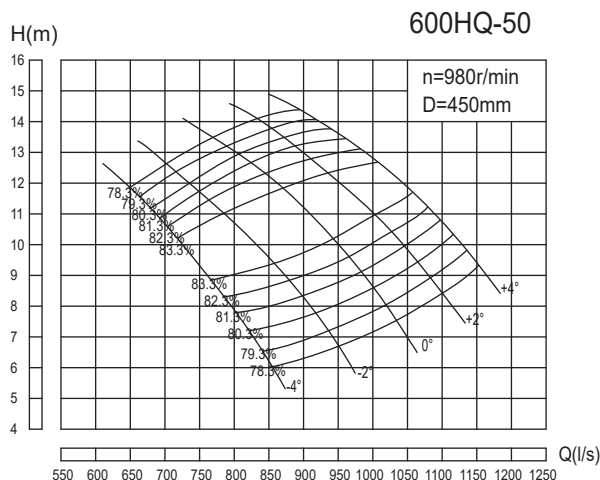
600HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2915.3	809.8	10.93	980	110.8	160	78.4	450
	2668.7	741.3	14.03		124.1		82.2	
	2291	636.4	17.37		138.3		78.4	
-2°	3268.4	907.9	11.78		133.8	185	78.4	
	2956.3	821.2	15.21		148.7		82.4	
	2463.5	684.3	18.74		160.5		78.4	
0°	3588.5	996.8	12.71		158.5	200	78.4	
	3202.6	889.6	16.55		174.6		82.7	
	2652.5	736.8	20.11		185.4		78.4	
+2°	3851.3	1069.8	13.75		184.1	220	78.4	
	3448.8	958	17.47		196.9		83.4	
	2833.2	787	21.12		208		78.4	
+4°	4081.3	1133.7	15.16		215.1	250	78.4	
	3695.4	1026.5	18.71		227.3		82.9	
	3079.4	855.4	21.97		235.2		78.4	



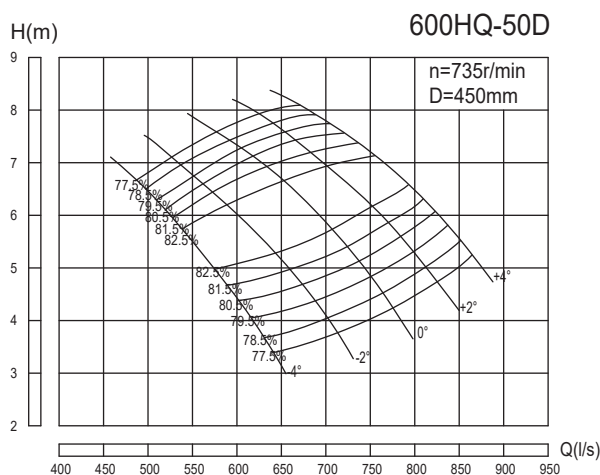
600HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2186.3	607.3	6.15	735	47.3	75	77.5	450
	2001.6	556	7.89		52.9		81.3	
	1718.3	477.3	9.77		59		77.5	
-2°	2451.2	680.9	6.63		57.1	75	77.5	
	2217.2	615.9	8.56		63.5		81.5	
	1847.5	513.2	10.54		68.5		77.5	
0°	2691.4	747.6	7.15		67.7	90	77.5	
	2401.9	667.2	9.31		74.5		81.8	
	1989.4	552.6	11.31		79.1		77.5	
+2°	2888.6	802.4	7.74		78.6	110	77.5	
	2586.6	718.5	9.83		84		82.5	
	2124.7	590.2	11.88		88.8		77.5	
+4°	3061.1	850.3	8.53		91.8	110	77.5	
	2771.3	769.8	10.52		96.9		82	
	2309.4	641.5	12.36		100.4		77.5	



600HQ-50 Performance Parameter Table

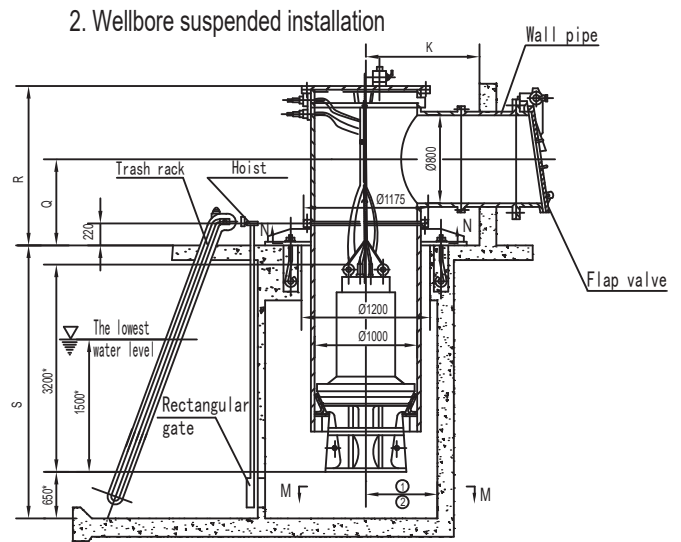
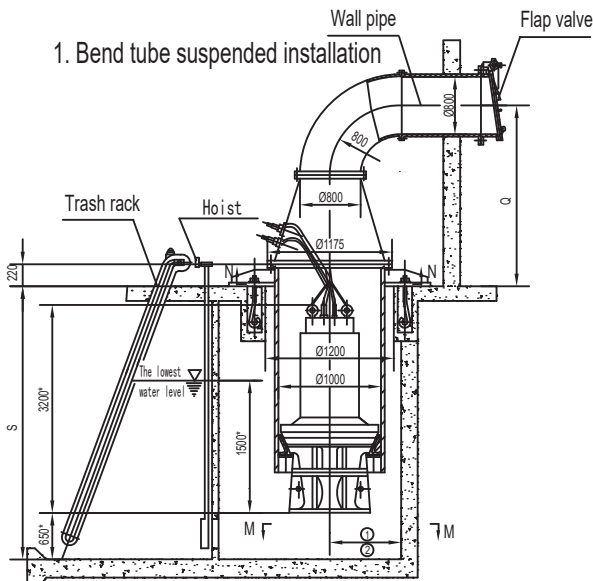
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3030.1	841.7	6.53	980	67.9	110	79.4	450
	2627.6	729.9	9.97		85.6		83.4	
	2373.1	659.2	11.56		94.2		79.4	
-2°	3366.7	935.2	7.19		83.1	132	79.4	
	2874.2	798.4	10.79		101.2		83.5	
	2578.3	716.2	12.33		109.1		79.4	
0°	3670.6	1019.6	8.02		101	132	79.4	
	3202.6	889.6	11.31		118.3		83.4	
	2841.1	789.2	13.21		128.8		79.4	
+2°	3900.6	1083.5	8.94		119.7	160	79.4	
	3366.7	935.2	12.33		135.6		83.4	
	3087.7	857.7	13.77		145.9		79.4	
+4°	4089.6	1136	9.76		137	185	79.4	
	3613.3	1003.7	12.74		150.4		83.4	
	3301.2	917	14.08		159.5		79.4	



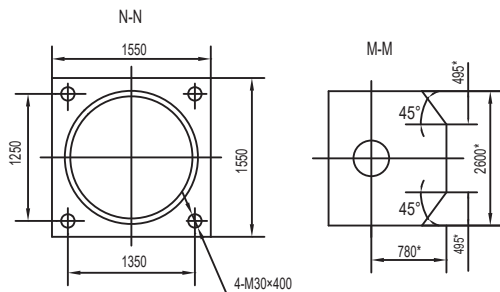
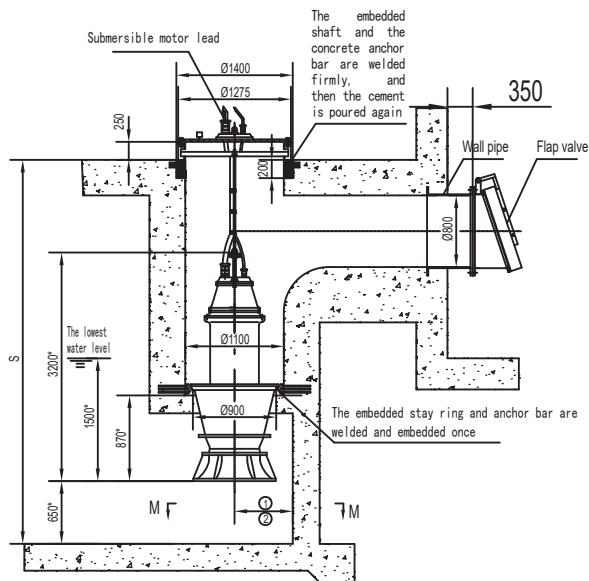
600HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	2272.7	631.3	3.67	735	29	45	78.5	450
	1970.6	547.4	5.61		36.5		82.5	
	1779.8	494.4	6.5		40.2		78.5	
-2°	2525	701.4	4.05		35.5	55	78.5	
	2155.7	598.8	6.07		43.2		82.6	
	1933.9	537.2	6.94		46.6		78.5	
0°	2752.9	764.7	4.51		43.1	75	78.5	
	2401.9	667.2	6.36		50.5		82.5	
	2130.8	591.9	7.43		55		78.5	
+2°	2925.4	812.6	5.03		51.1	75	78.5	
	2525	701.4	6.94		57.9		82.5	
	2315.9	643.3	7.75		62.3		78.5	
+4°	3067.2	852	5.49		58.5	75	78.5	
	2709.7	752.7	7.17		64.2		82.5	
	2475.7	687.7	7.92		68.1		78.5	

Outline Installation Dimension Diagram 600ZQ-50,600ZQ-70,600ZQ-85,600ZQ-100,600ZQ-125,
600ZQ-160,600HQ-40,600HQ-40D,600HQ-50,600HQ-50D



3. Precast concrete wellbore installation

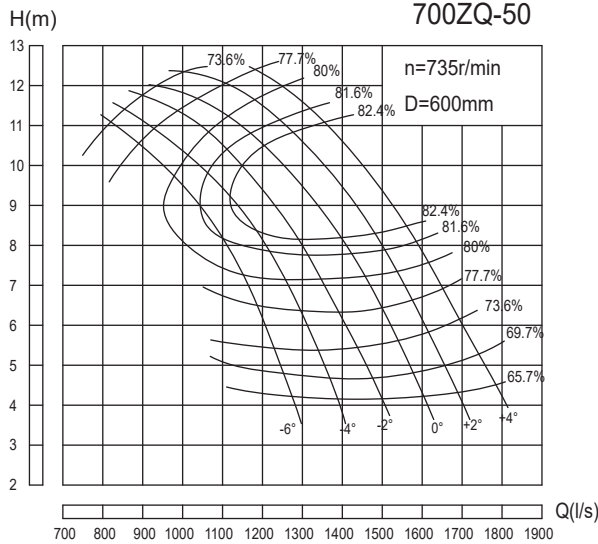


Notice: The dimensions of S, Q, R and K are according to the user's requirements

①The recommended distance between the pump center and the back wall is 780*

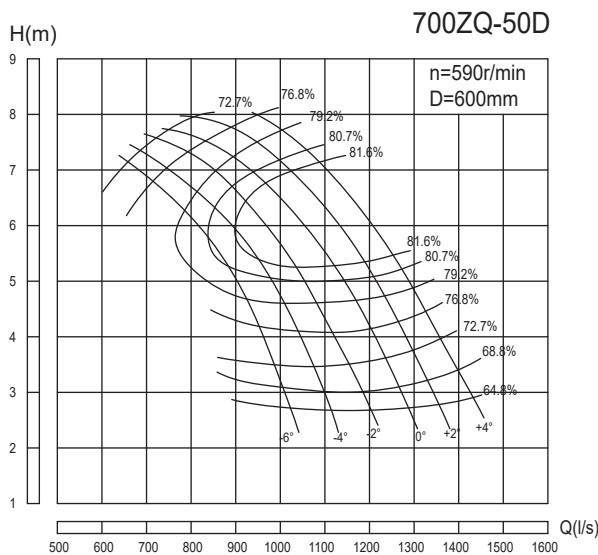
②The center distance between two pumps in the same tank shall not be less than 2600*

③The size with * is for reference only



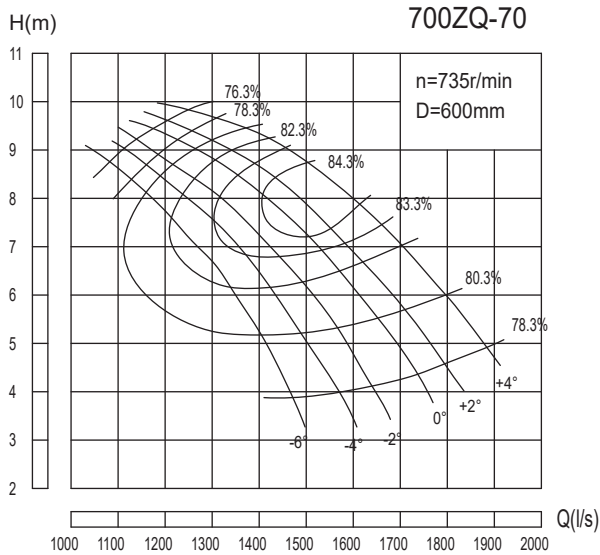
700ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	4463.3	1239.8	4.8	735	83.8	132	69.7	600
	3766.3	1046.2	8.77		109.9		81.9	
	2981.9	828.3	11.04		120.3		74.6	
-4°	4847	1346.4	4.71		89.3	160	69.7	
	4095	1137.5	9.04		121.4		83.1	
	3076.9	854.7	11.56		129.9		74.6	
-2°	5232.6	1453.5	4.71		96.4	160	69.7	
	4218.5	1171.8	9.31		128.8		83.1	
	3228.8	896.9	11.88		140.1		74.6	
0°	5650.6	1569.6	4.93		108.9	160	69.7	
	4685.4	1301.5	9.35		143.3		83.3	
	3741.5	1039.3	11.72		153.8		77.7	
+2°	5992.2	1664.5	5.04		118.1	185	69.7	
	4932.4	1370.1	9.59		155.1		83.1	
	4026.6	1118.5	12.11		171		77.7	
+4°	6220.1	1727.8	5.47		133	200	69.7	
	5186.9	1440.8	9.85		167.5		83.1	
	4216.3	1171.2	12.33		182.3		77.7	



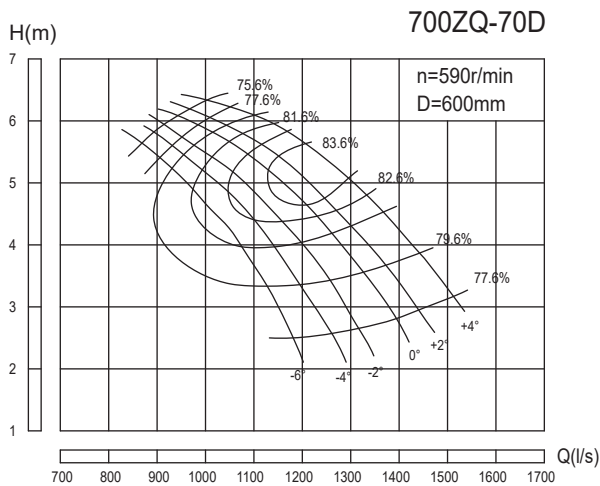
700ZQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3582.7	995.2	3.09	590	43.8	75	68.9	600
	3023.3	839.8	5.65		57.4		81.1	
	2393.6	664.9	7.12		62.9		73.8	
-4°	3890.9	1080.8	3.03		46.6	75	68.9	
	3287.2	913.1	5.82		63.3		82.3	
	2470	686.1	7.45		67.9		73.8	
-2°	4200.1	1166.7	3.03		50.3	75	68.9	
	3386.2	940.6	6		67.3		82.3	
	2591.6	719.9	7.66		73.3		73.8	
0°	4535.6	1259.9	3.18		57	90	68.9	
	3761.3	1044.8	6.02		74.8		82.5	
	3003.5	834.3	7.55		80.4		76.9	
+2°	4810	1336.1	3.25		61.8	110	68.9	
	3959.3	1099.8	6.18		81		82.3	
	3232.1	897.8	7.8		89.3		76.9	
+4°	4993.2	1387	3.53		69.7	110	68.9	
	4163.8	1156.6	6.35		87.5		82.3	
	3384.7	940.2	7.95		95.4		76.9	



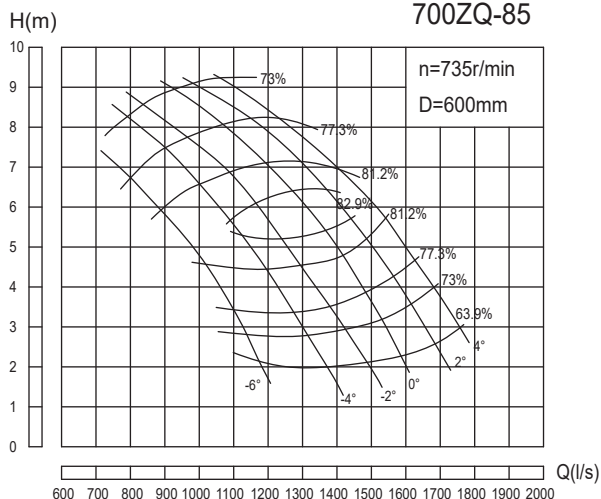
700ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	5255.6	1459.9	3.85	735	70.4	132	78.3	600
	4671.7	1297.7	6.78		104.9		82.3	
	3868.6	1074.6	8.74		120.8		76.3	
-4°	5620.3	1561.2	3.96		77.5	160	78.3	
	4788.4	1330.1	7.19		112.4		83.5	
	4014.7	1115.2	9.13		130.9		76.3	
-2°	5912.3	1642.3	4.11		84.6	160	78.3	
	5036.4	1399	7.5		123		83.7	
	4102.2	1139.5	9.25		135.5		76.3	
0°	6204.2	1723.4	4.42		95.4	160	78.3	
	5240.9	1455.8	7.83		131.9		84.8	
	4204.4	1167.9	9.56		143.6		76.3	
+2°	6423.5	1784.3	4.62		103.3	160	78.3	
	5372.3	1492.3	7.91		135.9		85.2	
	4248.4	1180.1	9.66		146.6		76.3	
+4°	6744.6	1873.5	5.04		118.3	185	78.3	
	5576.8	1549.1	8.43		152		84.3	
	4510.8	1253	9.87		159		76.3	



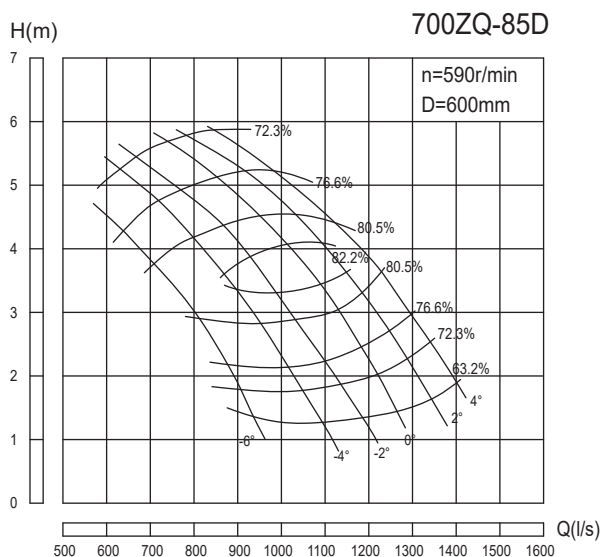
700ZQ-70D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	4218.8	1171.9	2.48	590	36.7	75	77.6	600
	3750.1	1041.7	4.37		54.7		81.6	
	3105.4	862.6	5.63		63		75.6	
-4°	4511.5	1253.2	2.55		40.4	75	77.6	
	3843.7	1067.7	4.64		58.7		82.8	
	3222.7	895.2	5.88		68.3		75.6	
-2°	4745.9	1318.3	2.65		44.2	75	77.6	
	4042.8	1123	4.83		64.1		83	
	3292.9	914.7	5.96		70.7		75.6	
0°	4980.2	1383.4	2.85		49.8	90	77.6	
	4207	1168.6	5.05		68.8		84.1	
	3375	937.5	6.16		74.9		75.6	
+2°	5156.3	1432.3	2.98		54	90	77.6	
	4312.4	1197.9	5.1		70.9		84.5	
	3410.3	947.3	6.23		76.6		75.6	
+4°	5414	1503.9	3.25		61.8	90	77.6	
	4476.6	1243.5	5.43		79.2		83.6	
	3620.9	1005.8	6.36		83		75.6	



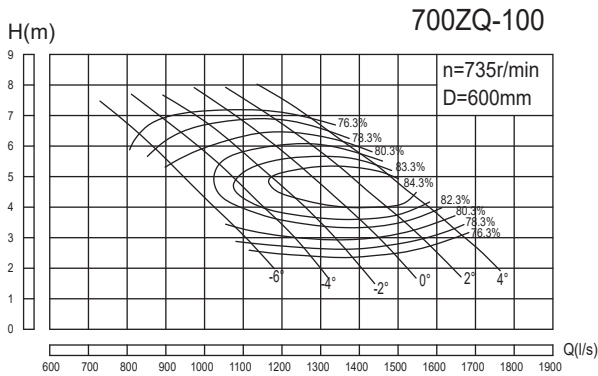
700ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3956.4	1099	2.87	735	42.3		73.1	600
	3620.5	1005.7	4.36		52.4	75	82.1	
	2554.9	709.7	7.35		70		73.1	
-4°	4583.9	1273.3	2.77		47.3		73.1	
	3912.5	1086.8	5.34		68.5	90	83.1	
	2803	778.6	7.8		81.5		73.1	
-2°	5153.4	1431.5	2.87		55.1		73.1	
	4452.5	1236.8	5.24		76.5	110	83.1	
	3080.2	855.6	8.17		93.8		73.1	
0°	5547.6	1541	3.13		64.7		73.1	
	4875.8	1354.4	5.44		85.9	110	84.1	
	3386.9	940.8	8.48		107.1		73.1	
+2°	5927	1646.4	3.6		79.5		73.1	
	5211.7	1447.7	5.81		99.3	132	83.1	
	3693.6	1026	8.73		120.2		73.1	
+4°	6306.5	1751.8	4.04		95		73.1	
	5328.4	1480.1	6.57		116.2	160	82.1	
	4029.1	1119.2	8.72		131		73.1	



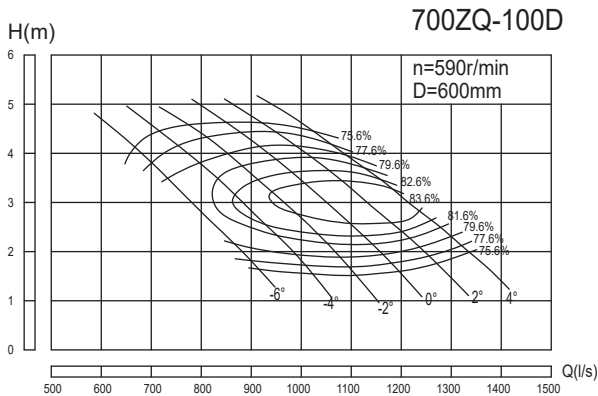
700ZQ-85D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3175.9	882.2	1.85	590	22.1		72.4	600
	2906.3	807.3	2.81		27.3	45	81.4	
	2050.9	569.7	4.74		36.6		72.4	
-4°	3679.6	1022.1	1.79		24.8		72.4	
	3140.6	872.4	3.44		35.7	45	82.4	
	2250	625	5.03		42.6		72.4	
-2°	4136.8	1149.1	1.85		28.8		72.4	
	3574.1	992.8	3.38		40	55	82.4	
	2472.5	686.8	5.26		48.9		72.4	
0°	4453.2	1237	2.02		33.9		72.4	
	3913.9	1087.2	3.5		44.8	75	83.4	
	2718.7	755.2	5.46		55.9		72.4	
+2°	4757.8	1321.6	2.32		41.5		72.4	
	4183.6	1162.1	3.74		51.7	75	82.4	
	2965	823.6	5.62		62.7		72.4	
+4°	5062.3	1406.2	2.6		49.5		72.4	
	4277.2	1188.1	4.23		60.6	75	81.4	
	3234.2	898.4	5.62		68.4		72.4	



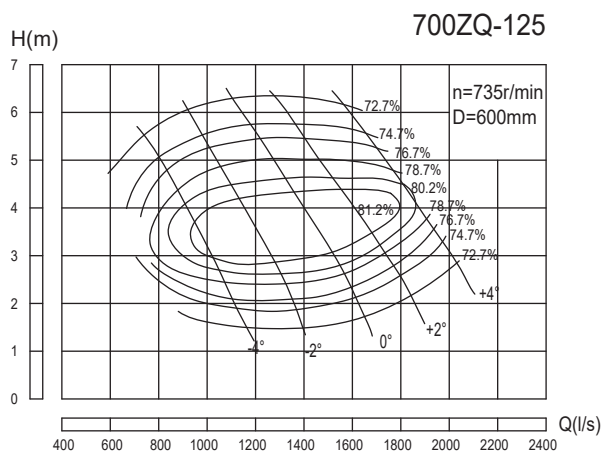
700ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3883.3	1078.7	3.29	735	43.4	75	80.3	600
	3649.7	1013.8	4.14		50.3		81.9	
	3284.6	912.4	5.45		60.7		80.3	
-4°	4438.1	1232.8	3.01		45.3	75	80.3	
	4087.4	1135.4	4.21		56.2		83.4	
	3569.4	991.5	5.91		71.6		80.3	
-2°	4832.3	1342.3	2.93		48	90	80.3	
	4452.5	1236.8	4.33		62.5		84	
	3825	1062.5	6.2		80.5		80.3	
0°	5211.7	1447.7	3.02		53.4	110	80.3	
	4817.5	1338.2	4.32		67.3		84.3	
	4109.4	1141.5	6.42		89.5		80.3	
+2°	5547.6	1541	3.26		61.4	110	80.3	
	5109.5	1419.3	4.55		74.7		84.8	
	4438.1	1232.8	6.44		97		80.3	
+4°	5839.6	1622.1	3.58		70.9	110	80.3	
	5474.5	1520.7	4.57		80.7		84.5	
	4890.6	1358.5	6.17		102.4		80.3	



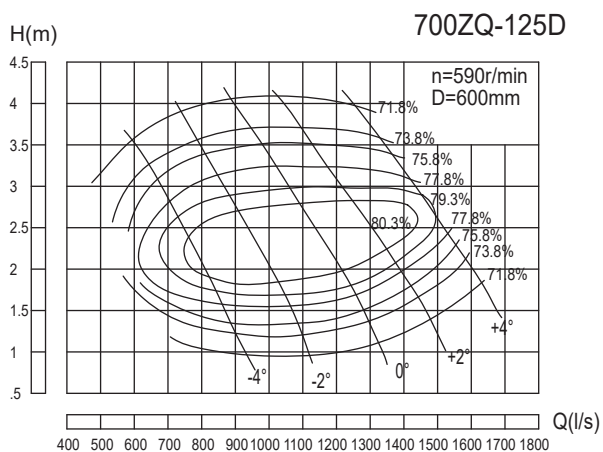
700ZQ-100D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	3117.2	865.9	2.12	590	22.6	37	79.6	600
	2929.7	813.8	2.67		26.3		81.2	
	2636.6	732.4	3.51		31.7		79.6	
-4°	3562.6	989.6	1.94		23.7	45	79.6	
	3281	911.4	2.72		29.4		82.7	
	2865.2	795.9	3.81		37.4		79.6	
-2°	3879	1077.5	1.89		25.1	45	79.6	
	3574.1	992.8	2.79		32.6		83.3	
	3070.4	852.9	3.99		41.9		79.6	
0°	4183.6	1162.1	1.95		27.9	55	79.6	
	3867.1	1074.2	2.78		35		83.6	
	3298.7	916.3	4.14		46.8		79.6	
+2°	4453.2	1237	2.1		32	55	79.6	
	4101.5	1139.3	2.93		38.9		84.1	
	3562.6	989.6	4.15		50.6		79.6	
+4°	4687.6	1302.1	2.3		36.9	55	79.6	
	4394.5	1220.7	2.95		42.2		83.8	
	3925.8	1090.5	3.97		53.4		79.6	



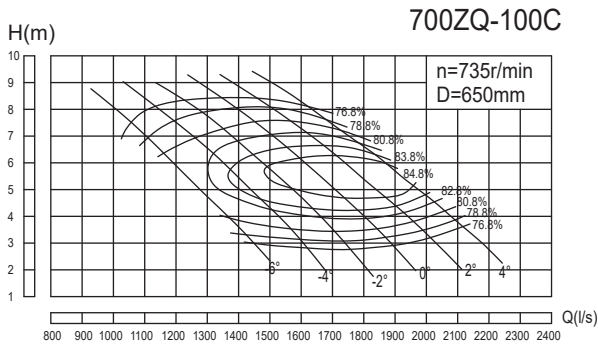
700ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3970.8	1103	2.1	735	29.6		76.7	600
	3620.5	1005.7	3.11		37.8	55	81.2	
	2890.4	802.9	5.07		53.5		74.7	
-2°	4861.4	1350.4	2.09		36.1		76.7	
	4481.6	1244.9	3.23		48.3	75	81.6	
	3533	981.4	5.49		70.8		74.7	
0°	5737.3	1593.7	2.34		47.7		76.7	
	5284.8	1468	3.56		62.4	110	82.2	
	4248.4	1180.1	5.76		89.3		74.7	
$+2^\circ$	6379.6	1772.1	2.77		62.8		76.7	
	5868.7	1630.2	3.68		72.1	110	81.6	
	4919.8	1366.6	5.76		103.4		74.7	
$+4^\circ$	6963.5	1934.3	3.56		88.1		76.7	
	6671.5	1853.2	4.07		91.9	132	80.5	
	5956.2	1654.5	5.56		120.8		74.7	



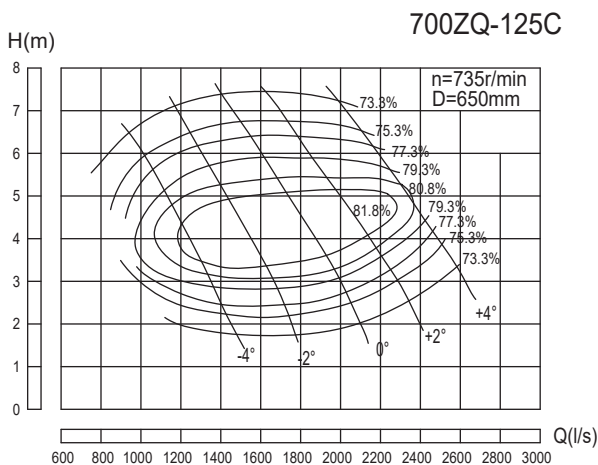
700ZQ-125D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3187.4	885.4	1.35	590	15.4		75.9	600
	2906.3	807.3	2.01		19.8	30	80.4	
	2320.2	644.5	3.26		27.9		73.9	
-2°	3902.4	1084	1.34		18.8		75.9	
	3597.5	999.3	2.08		25.2	45	80.8	
	2836.1	787.8	3.54		37		73.9	
0°	4605.5	1279.3	1.51		25		75.9	
	4242.2	1178.4	2.29		32.5	55	81.4	
	3410.3	947.3	3.71		46.7		73.9	
$+2^\circ$	5121	1422.5	1.79		32.9		75.9	
	4711	1308.6	2.37		37.7	75	80.8	
	3949.2	1097	3.71		54		73.9	
$+4^\circ$	5589.7	1552.7	2.29		46		75.9	
	5355.4	1487.6	2.62		48	75	79.7	
	4781.2	1328.1	3.58		63.1		73.9	



700ZQ-100C Performance Parameter Table

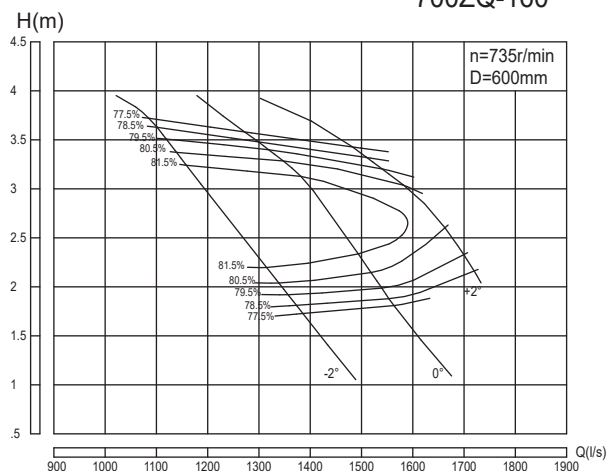
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	4937	1371.4	3.86	735	64.3	110	80.8	650
	4640	1288.9	4.86		74.6		82.4	
	4176.4	1160.1	6.39		90		80.8	
-4°	5642.6	1567.4	3.53		67.2	110	80.8	
	5197	1443.6	4.95		83.6		83.9	
	4538.2	1260.6	6.94		106.2		80.8	
-2°	6143.8	1706.6	3.44		71.3	132	80.8	
	5661	1572.5	5.08		92.7		84.5	
	4862.9	1350.8	7.27		119.2		80.8	
0°	6626.2	1840.6	3.55		79.3	160	80.8	
	6125	1701.4	5.07		99.8		84.8	
	5225	1451.4	7.54		132.9		80.8	
+2°	7053.1	1959.2	3.82		90.9	160	80.8	
	6496.2	1804.5	5.34		110.8		85.3	
	5642.6	1567.4	7.56		143.9		80.8	
+4°	7424.3	2062.3	4.2		105.2	160	80.8	
	6960.2	1933.4	5.37		119.8		85	
	6217.9	1727.2	7.24		151.8		80.8	



700ZQ-125C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	5048.6	1402.4	2.46	735	43.8	90	77.3	650
	4603	1278.6	3.65		56		81.8	
	3674.9	1020.8	5.95		79.1		75.3	
-2°	6180.8	1716.9	2.45		53.4	110	77.3	
	5698.1	1582.8	3.79		71.6		82.2	
	4491.7	1247.7	6.44		104.7		75.3	
0°	7294.3	2026.2	2.75		70.7	160	77.3	
	6719	1866.4	4.17		92.2		82.8	
	5401.1	1500.3	6.75		131.9		75.3	
+2°	8111.2	2253.1	3.26		93.2	160	77.3	
	7461.4	2072.6	4.32		106.9		82.2	
	6255	1737.5	6.75		152.8		75.3	
+4°	8853.5	2459.3	4.17		130.1	185	77.3	
	8482.3	2356.2	4.78		136.2		81.1	
	7573	2103.6	6.53		179		75.3	

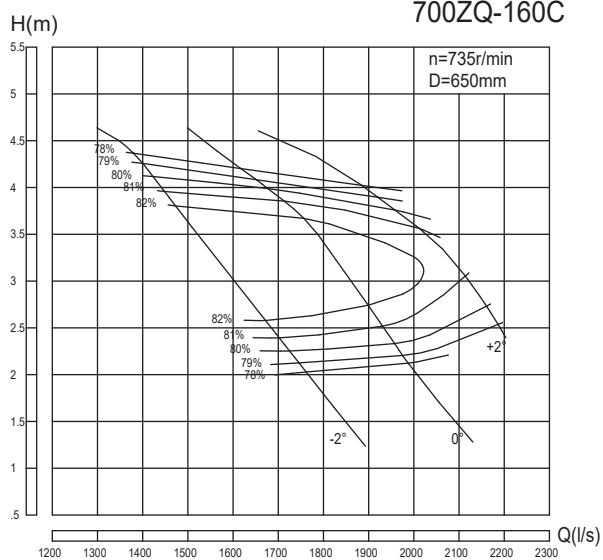
700ZQ-160



700ZQ-160 Performance Parameter Table

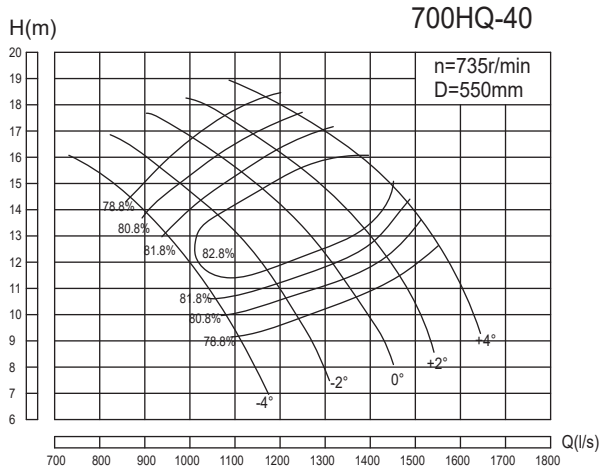
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	4943.5	1373.2	1.81	735	31	55	78.6	600
	4525.6	1257.1	2.56		38		83.1	
	3963.2	1100.9	3.63		49.9		78.6	
0°	5587.2	1552	1.87		36.2	75	78.6	
	5255.6	1459.9	2.57		44.8		82.1	
	4681.4	1300.4	3.47		56.3		78.6	
$+2^\circ$	6191.3	1719.8	2.16		46.4	75	78.6	
	5868.7	1630.2	2.77		55		80.6	
	5437.1	1510.3	3.32		62.6		78.6	

700ZQ-160C



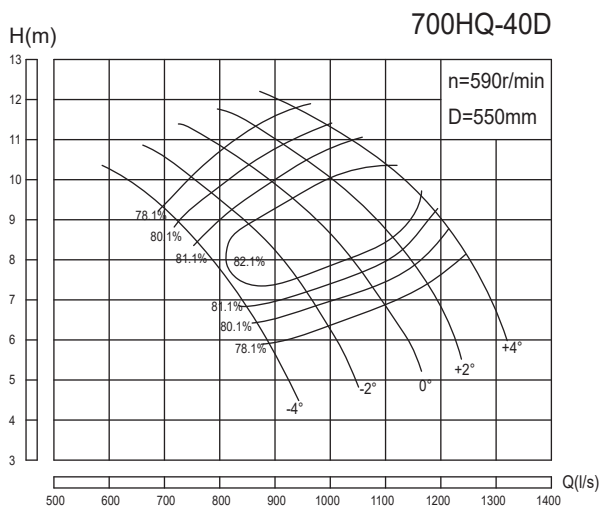
700ZQ-160C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	6285.6	1746	2.12	735	45.9	90	79.1	650
	5753.9	1598.3	3		56.3		83.6	
	5038.9	1399.7	4.26		73.9		79.1	
0°	7103.9	1973.3	2.2		53.8	90	79.1	
	6682	1856.1	3.02		66.6		82.6	
	5952.2	1653.4	4.08		83.7		79.1	
$+2^\circ$	7871.8	2186.6	2.53		68.6	110	79.1	
	7461.4	2072.6	3.26		81.7		81.1	
	6912.7	1920.2	3.9		92.9		79.1	



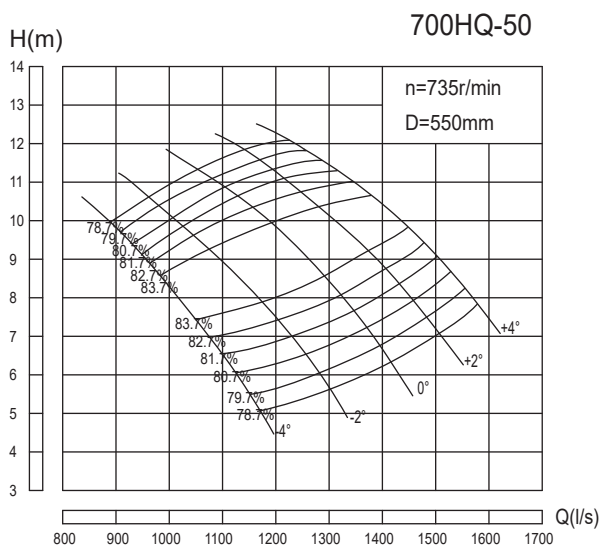
700HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3991.7	1108.8	9.18	735	126.7	185	78.8	550
	3654.4	1015.1	11.79		142.1		82.6	
	3137.4	871.5	14.6		158.4		78.8	
-2°	4475.5	1243.2	9.9		153.2	200	78.8	
	4048.2	1124.5	12.78		170.3		82.8	
	3373.6	937.1	15.74		183.6		78.8	
0°	4914	1365	10.68		181.5	220	78.8	
	4385.5	1218.2	13.9		199.9		83.1	
	3632	1008.9	16.9		212.3		78.8	
+2°	5273.6	1464.9	11.56		210.8	250	78.8	
	4722.8	1311.9	14.68		225.5		83.8	
	3879.4	1077.6	17.75		238.1		78.8	
+4°	5588.6	1552.4	12.74		246.2	280	78.8	
	5060.2	1405.6	15.72		260.2		83.3	
	4216.7	1171.3	18.46		269.2		78.8	



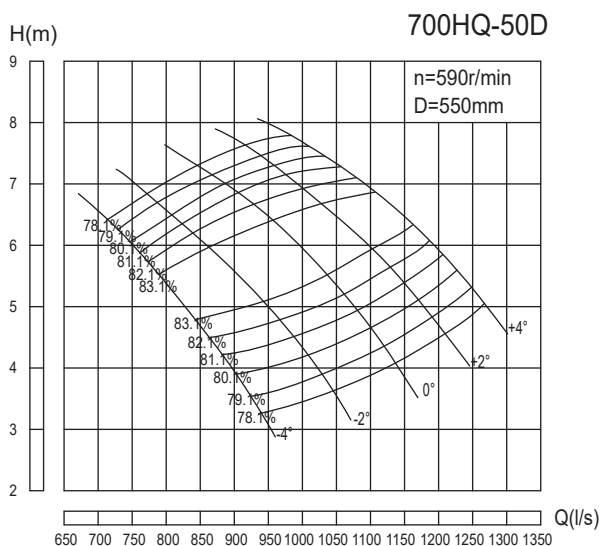
700HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3204.4	890.1	5.92	590	66.2	90	78.1	550
	2933.6	814.9	7.6		74.2		81.9	
	2518.2	699.5	9.4		82.6		78.1	
-2°	3592.4	997.9	6.38		80	110	78.1	
	3249.4	902.6	8.24		88.9		82.1	
	2707.9	752.2	10.14		95.8		78.1	
0°	3944.5	1095.7	6.88		94.7	132	78.1	
	3520.4	977.9	8.96		104.3		82.4	
	2915.6	809.9	10.89		110.8		78.1	
+2°	4233.2	1175.9	7.45		110	132	78.1	
	3791.2	1053.1	9.46		117.6		83.1	
	3114	865	11.44		124.3		78.1	
+4°	4486	1246.1	8.21		128.5	160	78.1	
	4061.9	1128.3	10.13		135.7		82.6	
	3384.7	940.2	11.9		140.5		78.1	



700HQ-50 Performance Parameter Table

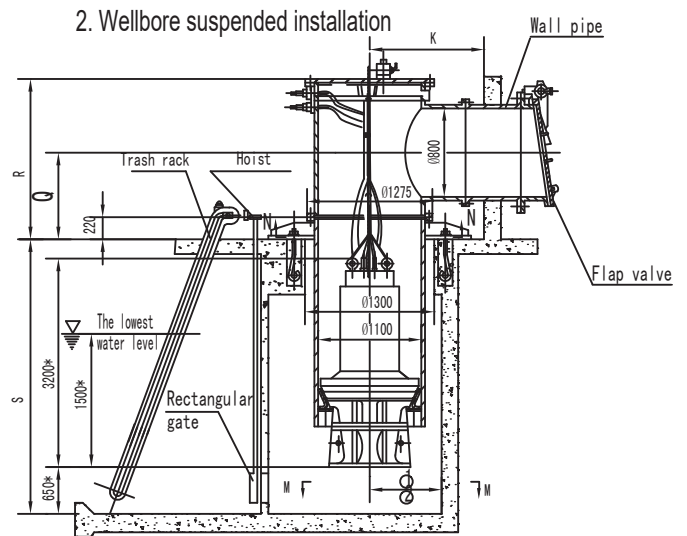
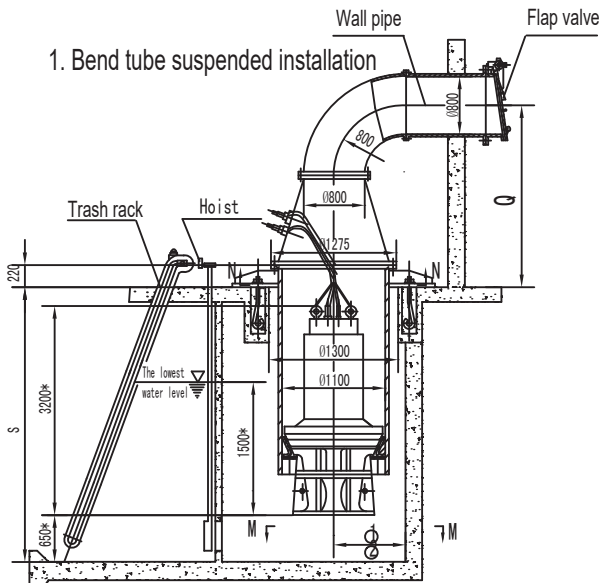
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	4149.4	1152.6	5.48	735	77.6	110	79.8	550
	3598.2	999.5	8.38		98.1		83.8	
	3249.7	902.7	9.72		107.9		79.8	
-2°	4610.2	1280.6	6.05		95.2	132	79.8	
	3935.5	1093.2	9.07		115.9		83.9	
	3530.9	980.8	10.36		124.9		79.8	
0°	5026.3	1396.2	6.74		115.7	160	79.8	
	4385.5	1218.2	9.5		135.5		83.8	
	3890.5	1080.7	11.1		147.5		79.8	
+2°	5341.3	1483.7	7.51		137	185	79.8	
	4610.2	1280.6	10.36		155.3		83.8	
	4227.8	1174.4	11.57		167		79.8	
+4°	5599.8	1555.5	8.2		156.8	200	79.8	
	4947.5	1374.3	10.71		172.3		83.8	
	4520.5	1255.7	11.83		182.6		79.8	



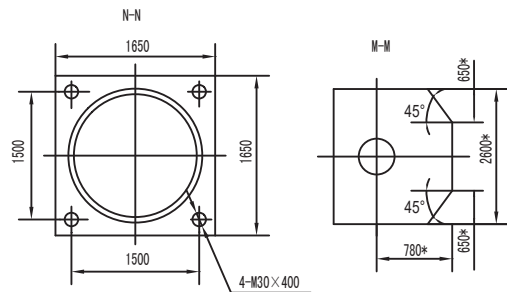
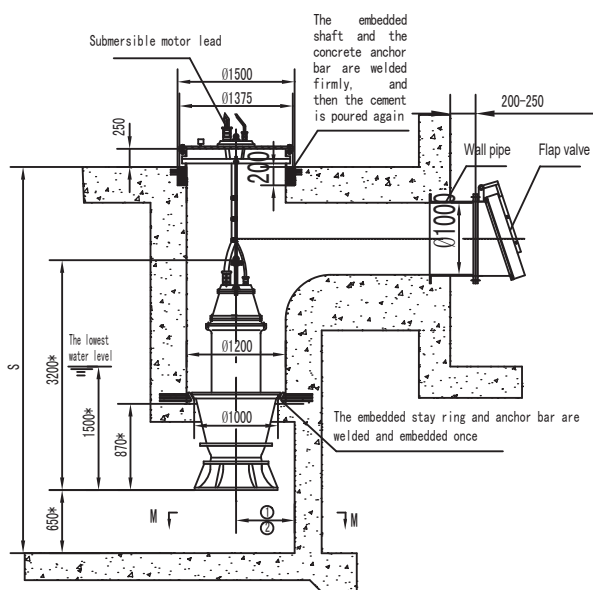
700HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	3330.7	925.2	3.53	590	40.5	75	79.1	550
	2888.3	802.3	5.4		51.1		83.1	
	2608.6	724.6	6.26		56.3		79.1	
-2°	3700.8	1028	3.9		49.7	75	79.1	
	3159.4	877.6	5.84		60.4		83.2	
	2834.3	787.3	6.68		65.2		79.1	
0°	4034.9	1120.8	4.34		60.3	90	79.1	
	3520.4	977.9	6.12		70.7		83.1	
	3123	867.5	7.15		76.9		79.1	
+2°	4287.6	1191	4.84		71.5	90	79.1	
	3700.8	1028	6.68		81.1		83.1	
	3393.7	942.7	7.46		87.2		79.1	
+4°	4495	1248.6	5.29		81.9	110	79.1	
	3971.5	1103.2	6.9		89.9		83.1	
	3628.4	1007.9	7.62		95.2		79.1	

Outline Installation Dimension Diagram 700ZQ-50,700ZQ-70,700ZQ-85,700ZQ-100,700ZQ-125,700ZQ-160,700ZQ-50D,700ZQ-70D,700ZQ-85D,700ZQ-100D,700ZQ-125D 700ZQ-100C,700ZQ-125C,700ZQ-160C 700HQ-40,700HQ-40D,700HQ-50,700HQ-50D



3. Precast concrete wellbore installation

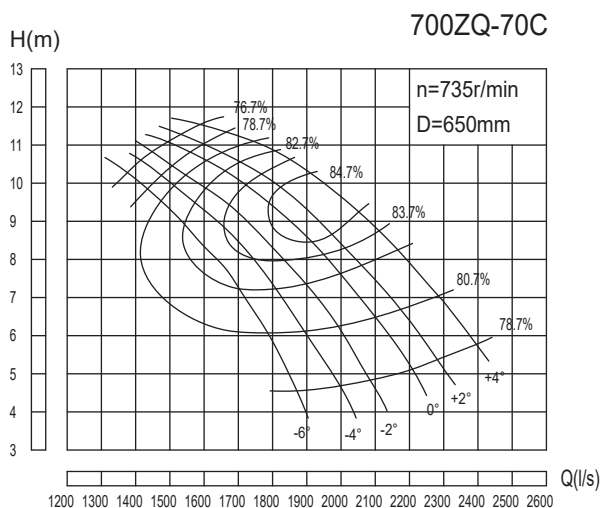


Notice: The dimensions of S, Q, R and K are according to the user's requirements

①The recommended distance between the pump center and the back wall is 780*

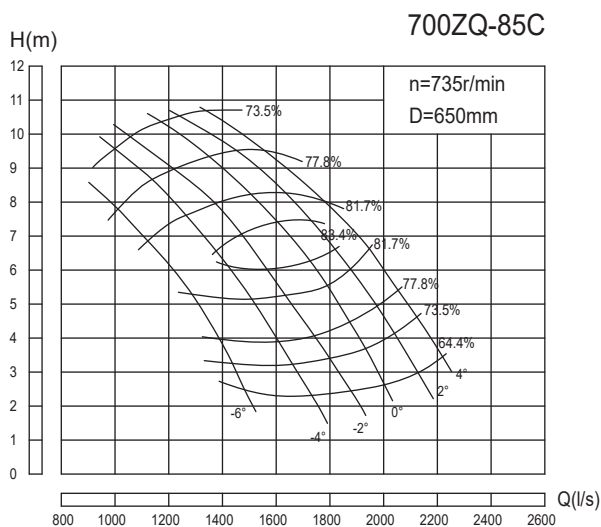
②The center distance between two pumps in the same tank shall not be less than 2600*

③The size with * is for reference only



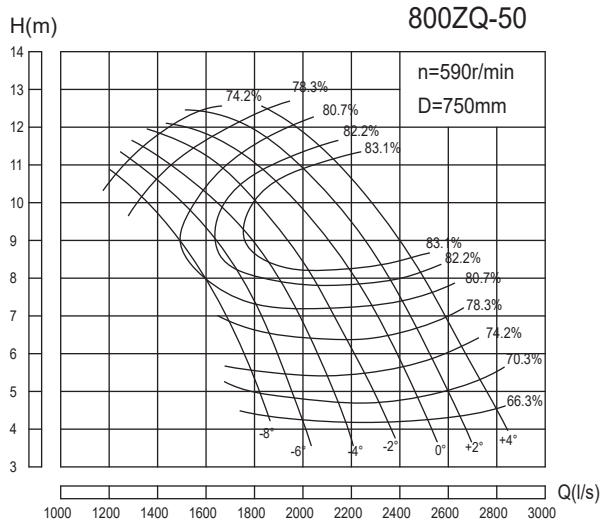
700ZQ-70C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	6682	1856.1	4.52	735	104.6	185	78.7	650
	5939.6	1649.9	7.96		155.8		82.7	
	4918.7	1366.3	10.25		179.1		76.7	
-4°	7146	1985	4.64		114.8	200	78.7	
	6088	1691.1	8.44		166.9		83.9	
	5104.1	1417.8	10.71		194.2		76.7	
-2°	7517.2	2088.1	4.82		125.5	220	78.7	
	6403.3	1778.7	8.81		182.8		84.1	
	5215.7	1448.8	10.86		201.2		76.7	
0°	7888.3	2191.2	5.19		141.8	220	78.7	
	6663.2	1850.9	9.19		195.9		85.2	
	5345.6	1484.9	11.22		213.1		76.7	
+2°	8166.6	2268.5	5.43		153.5	250	78.7	
	6830.3	1897.3	9.29		202		85.6	
	5401.1	1500.3	11.34		217.6		76.7	
+4°	8575.2	2382	5.91		175.5	250	78.7	
	7090.2	1969.5	9.89		225.6		84.7	
	5735.2	1593.1	11.58		236		76.7	



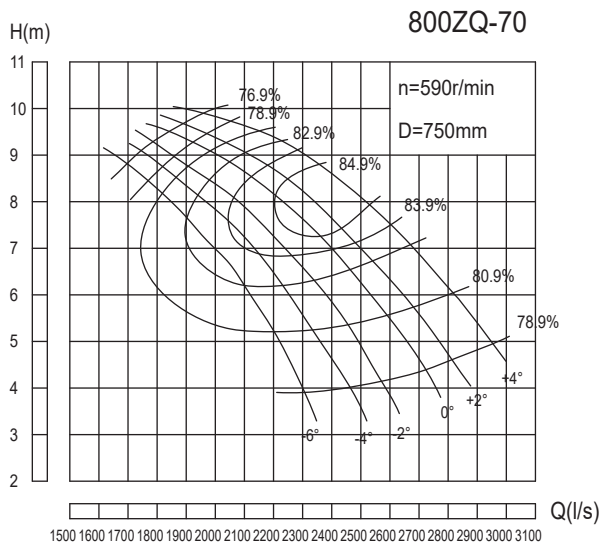
700ZQ-85C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	5029.9	1397.2	3.37	735	62.8	110	73.6	650
	4603	1278.6	5.11		77.6		82.6	
	3248.3	902.3	8.62		103.7		73.6	
-4°	5828	1618.9	3.26		70.3	132	73.6	
	4974.5	1381.8	6.27		101.7		83.6	
	3563.6	989.9	9.16		120.9		73.6	
-2°	6552	1820	3.37		81.8	160	73.6	
	5661	1572.5	6.15		113.5		83.6	
	3916.4	1087.9	9.59		139.1		73.6	
0°	7053.1	1959.2	3.68		96.1	185	73.6	
	6199.2	1722	6.38		127.4		84.6	
	4306	1196.1	9.95		158.6		73.6	
+2°	7535.9	2093.3	4.22		117.7	185	73.6	
	6626.2	1840.6	6.82		147.3		83.6	
	4695.8	1304.4	10.24		178		73.6	
+4°	8018.3	2227.3	4.74		140.7	200	73.6	
	6774.8	1881.9	7.71		172.3		82.6	
	5122.8	1423	10.23		194		73.6	



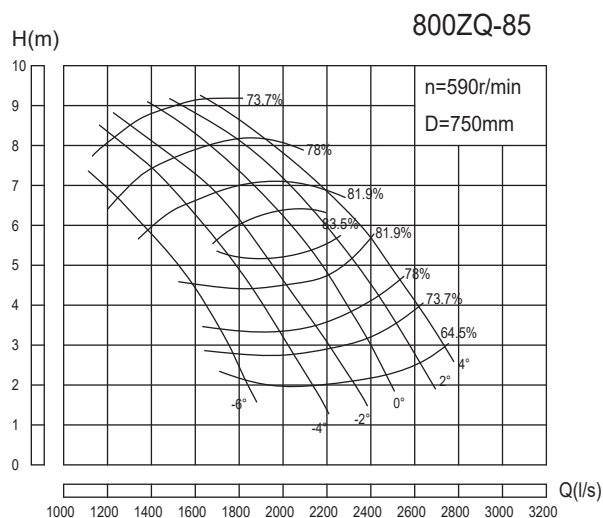
800ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	6997.7	1943.8	4.83	590	130.8	200	70.4	750
	5904.7	1640.2	8.83		172	200	82.6	
	4675	1298.6	11.12		188.1	200	75.3	
-4°	7599.2	2110.9	4.74		139.4	220	70.4	
	6419.9	1783.3	9.1		190	220	83.8	
	4824	1340	11.64		203.2	220	75.3	
-2°	8203.7	2278.8	4.74		150.5	250	70.4	
	6613.6	1837.1	9.37		201.5	250	83.8	
	5062.3	1406.2	11.96		219.1	250	75.3	
0°	8858.9	2460.8	4.97		170.4	250	70.4	
	7346.2	2040.6	9.41		224.3	250	84	
	5866.2	1629.5	11.8		240.6	250	78.4	
+2°	9394.9	2609.7	5.08		184.7	280	70.4	
	7733.2	2148.1	9.65		242.7	280	83.8	
	6313	1753.6	12.19		267.5	280	78.4	
+4°	9752	2708.9	5.51		208	315	70.4	
	8132	2258.9	9.92		262.3	315	83.8	
	6610.7	1836.3	12.42		285.4	315	78.4	



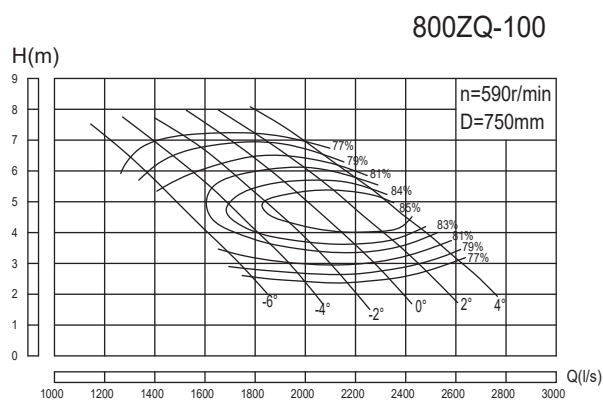
800ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	8239.7	2288.8	3.88	590	110.4	200	78.9	750
	7324.2	2034.5	6.83		164.4	200	82.9	
	6065.3	1684.8	8.8		189.1	200	76.9	
-4°	8811.7	2447.7	3.98		121.1	220	78.9	
	7507.1	2085.3	7.24		176.1	220	84.1	
	6294.2	1748.4	9.19		205	220	76.9	
-2°	9269.6	2574.9	4.14		132.5	220	78.9	
	7896.2	2193.4	7.55		192.7	220	84.3	
	6431.4	1786.5	9.31		212.2	220	76.9	
0°	9727.2	2702	4.45		149.5	250	78.9	
	8216.6	2282.4	7.89		206.9	250	85.4	
	6591.6	1831	9.62		224.7	250	76.9	
+2°	10070.6	2797.4	4.66		162.1	250	78.9	
	8422.9	2339.7	7.97		213.2	250	85.8	
	6660.4	1850.1	9.73		229.6	250	76.9	
+4°	10574.3	2937.3	5.07		185.2	280	78.9	
	8743.3	2428.7	8.49		238.3	280	84.9	
	7072.2	1964.5	9.93		248.9	280	76.9	



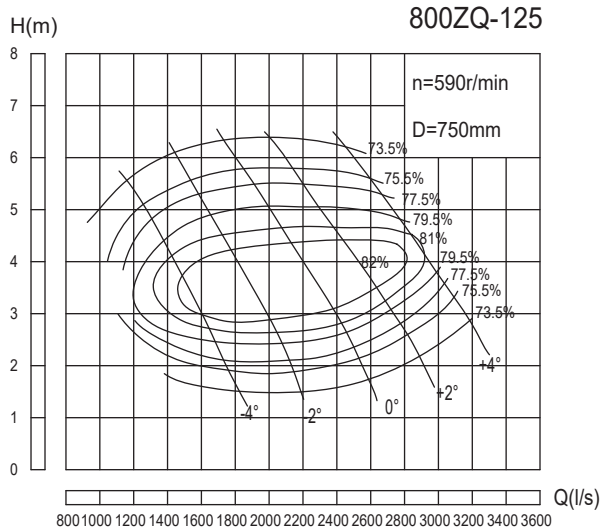
800ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	6202.8	1723	2.89	590	66.2	132	73.8	750
	5676.1	1576.7	4.39		82		82.8	
	4005.4	1112.6	7.4		109.4		73.8	
-4°	7186.7	1996.3	2.79		74	132	73.8	
	6134	1703.9	5.38		107.3		83.8	
	4394.5	1220.7	7.85		127.4		73.8	
-2°	8079.5	2244.3	2.89		86.2	160	73.8	
	6980.8	1939.1	5.28		119.9		83.8	
	4829.4	1341.5	8.23		146.8		73.8	
0°	8697.2	2415.9	3.16		101.5	185	73.8	
	7644.6	2123.5	5.47		134.4		84.8	
	5310	1475	8.54		167.4		73.8	
+2°	9292.7	2581.3	3.62		124.2	200	73.8	
	8170.9	2269.7	5.85		155.4		83.8	
	5790.6	1608.5	8.79		187.9		73.8	
+4°	9887.8	2746.6	4.07		148.6	220	73.8	
	8354.2	2320.6	6.61		181.7		82.8	
	6316.9	1754.7	8.77		204.6		73.8	



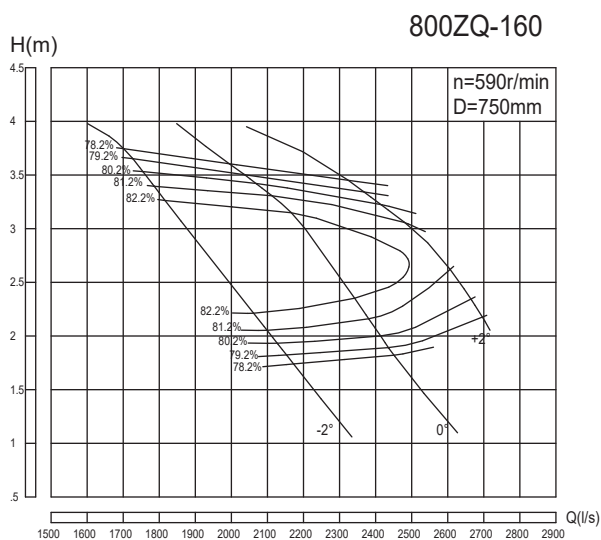
800ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	6088.3	1691.2	3.31	590	67.8	110	81	750
	5721.8	1589.4	4.17		78.7		82.6	
	5149.8	1430.5	5.48		94.9		81	
-4°	6958.1	1932.8	3.03		70.9	132	81	
	6408.7	1780.2	4.24		88		84.1	
	5596.2	1554.5	5.95		112		81	
-2°	7575.8	2104.4	2.95		75.2	132	81	
	6980.8	1939.1	4.36		97.9		84.7	
	5996.5	1665.7	6.24		125.9		81	
0°	8170.9	2269.7	3.04		83.6	160	81	
	7553.2	2098.1	4.35		105.3		85	
	6442.9	1789.7	6.47		140.2		81	
+2°	8697.2	2415.9	3.28		96	160	81	
	8010.7	2225.2	4.58		116.9		85.5	
	6958.1	1932.8	6.49		151.9		81	
+4°	9155.2	2543.1	3.6		110.9	185	81	
	8583.1	2384.2	4.6		126.3		85.2	
	7667.3	2129.8	6.21		160.2		81	



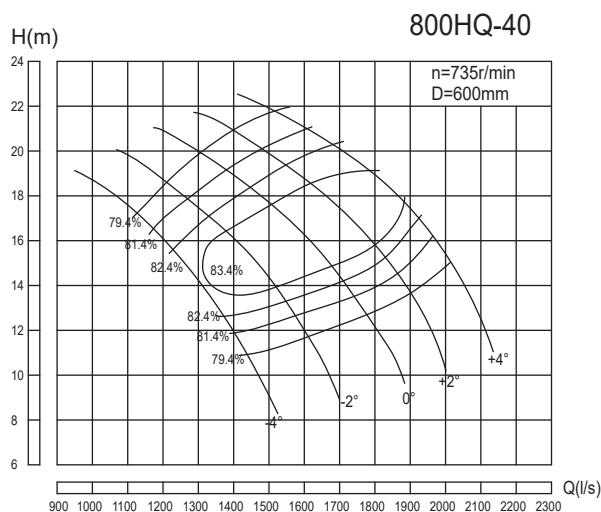
800ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	6225.5	1729.3	2.11	590	46.2	90	77.5	750
	5676.1	1576.7	3.14		59.2		82	
	4531.7	1258.8	5.1		83.4		75.5	
-2°	7621.6	2117.1	2.1		56.3	132	77.5	
	7026.5	1951.8	3.25		75.5		82.4	
	5539	1538.6	5.53		110.6		75.5	
0°	8995	2498.6	2.36		74.6	160	77.5	
	8285.4	2301.5	3.58		97.4		83	
	6660.4	1850.1	5.79		139.2		75.5	
+2°	10001.9	2778.3	2.79		98.1	185	77.5	
	9200.9	2555.8	3.7		112.6		82.4	
	7713.4	2142.6	5.79		161.2		75.5	
+4°	10917.7	3032.7	3.58		137.4	200	77.5	
	10459.8	2905.5	4.1		143.7		81.3	
	9338.4	2594	5.6		188.7		75.5	



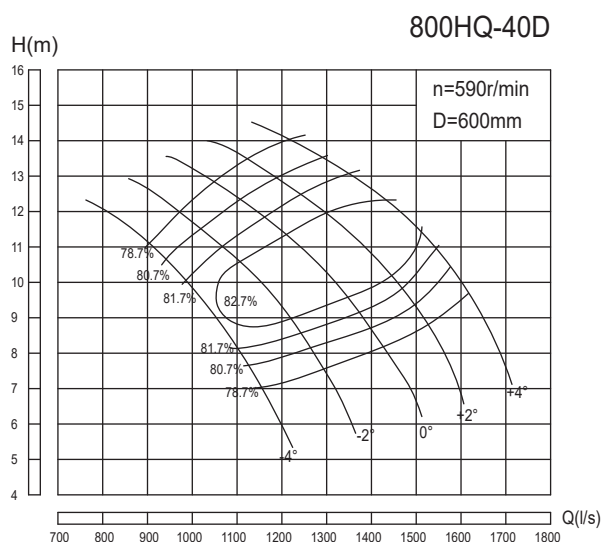
800ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	7750.8	2153	1.82	590	48.5	90	79.3	750
	7095.2	1970.9	2.58		59.5		83.8	
	6213.6	1726	3.65		77.9		79.3	
0°	8759.9	2433.3	1.88		56.6	90	79.3	
	8239.7	2288.8	2.59		70.2		82.8	
	7339.7	2038.8	3.5		88.3		79.3	
+2°	9707	2696.4	2.17		72.4	110	79.3	
	9200.9	2555.8	2.79		86		81.3	
	8524.1	2367.8	3.34		97.8		79.3	



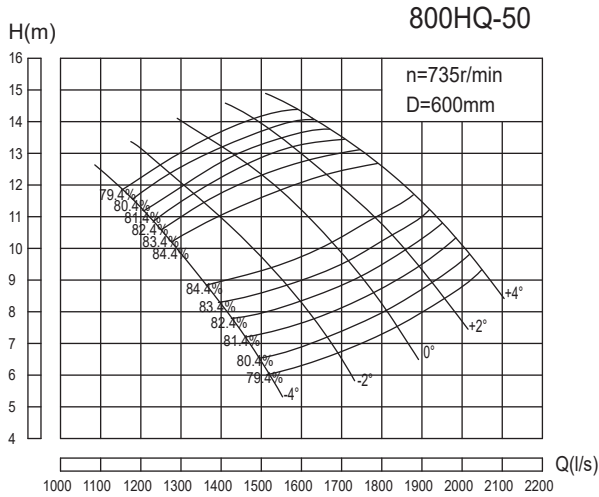
800HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	5182.6	1439.6	10.93	735	194.4	250	79.4	600
	4744.4	1317.9	14.03		218		83.2	
	4073	1131.4	17.37		242.8		79.4	
-2°	5810.4	1614	11.78		234.9	315	79.4	
	5255.6	1459.9	15.21		261.2		83.4	
	4379.8	1216.6	18.74		281.7		79.4	
0°	6379.6	1772.1	12.71		278.3	355	79.4	
	5693.4	1581.5	16.55		306.8		83.7	
	4715.3	1309.8	20.11		325.4		79.4	
+2°	6846.8	1901.9	13.75		323.1	400	79.4	
	6131.5	1703.2	17.47		345.8		84.4	
	5036.4	1399	21.12		365.1		79.4	
+4°	7255.4	2015.4	15.16		377.5	450	79.4	
	6569.3	1824.8	18.71		399.2		83.9	
	5474.5	1520.7	21.97		412.8		79.4	



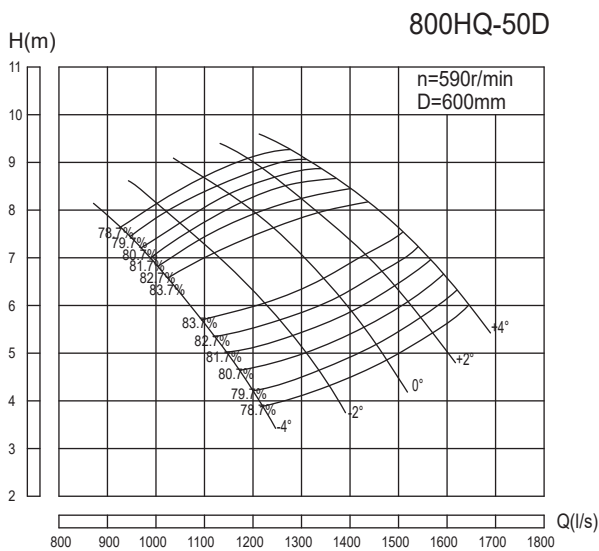
800HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	4160.2	1155.6	7.04	590	101.4	132	78.7	600
	3808.4	1057.9	9.04		113.7		82.5	
	3269.5	908.2	11.19		126.7		78.7	
-2°	4664.2	1295.6	7.59		122.6	160	78.7	
	4218.8	1171.9	9.8		136.2		82.7	
	3515.8	976.6	12.07		146.9		78.7	
0°	5121	1422.5	8.19		145.2	185	78.7	
	4570.2	1269.5	10.66		159.9		83	
	3785	1051.4	12.96		169.9		78.7	
+2°	5496.1	1526.7	8.86		168.6	200	78.7	
	4921.9	1367.2	11.26		180.4		83.7	
	4042.8	1123	13.61		190.5		78.7	
+4°	5824.1	1617.8	9.77		197	220	78.7	
	5273.3	1464.8	12.05		208.1		83.2	
	4394.5	1220.7	14.16		215.5		78.7	



800HQ-50 Performance Parameter Table

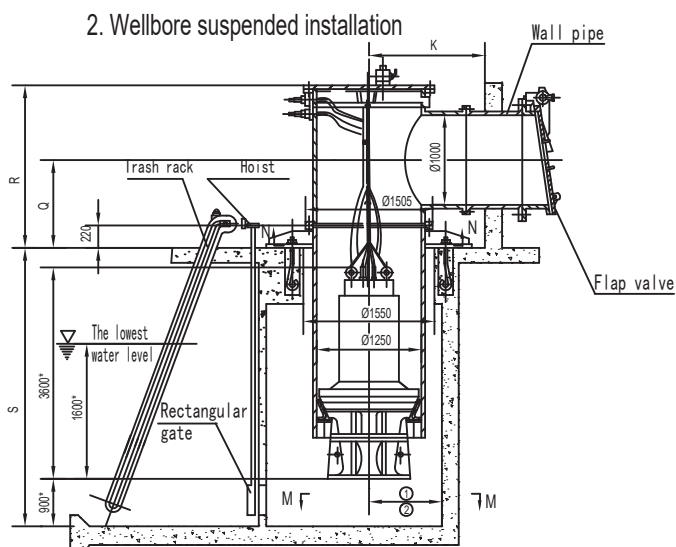
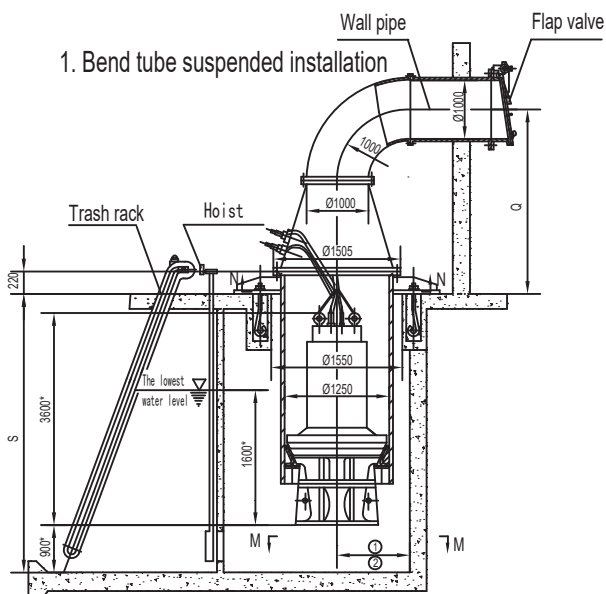
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	5387	1496.4	6.53	735	119.2	185	80.4	600
	4671.7	1297.7	9.97		150.4		84.4	
	4218.8	1171.9	11.56		165.3		80.4	
-2°	5985.4	1662.6	7.19		145.9	200	80.4	
	5109.5	1419.3	10.79		177.8		84.5	
	4583.9	1273.3	12.33		191.6		80.4	
0°	6525.7	1812.7	8.02		177.4	250	80.4	
	5693.4	1581.5	11.31		207.9		84.4	
	5051.2	1403.1	13.21		226.2		80.4	
+2°	6934.3	1926.2	8.94		210.1	280	80.4	
	5985.4	1662.6	12.33		238.3		84.4	
	5488.9	1524.7	13.77		256.2		80.4	
+4°	7270.2	2019.5	9.76		240.5	315	80.4	
	6423.5	1784.3	12.74		264.2		84.4	
	5868.7	1630.2	14.08		280.1		80.4	



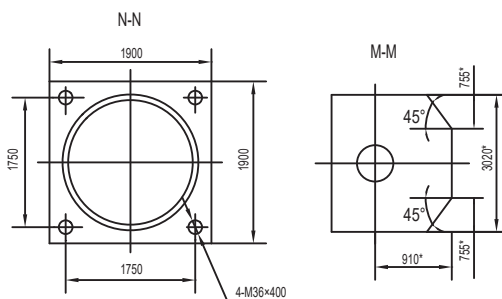
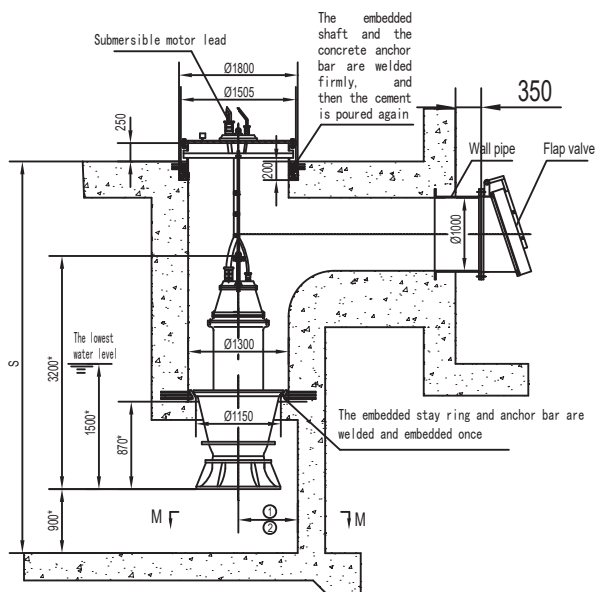
800HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	4324.3	1201.2	4.21	590	62.2	90	79.7	600
	3750.1	1041.7	6.42		78.4		83.7	
	3386.5	940.7	7.45		86.3		79.7	
-2°	4804.6	1334.6	4.64		76.2	110	79.7	
	4101.5	1139.3	6.95		92.7		83.8	
	3679.6	1022.1	7.95		100		79.7	
0°	5238.4	1455.1	5.17		92.6	132	79.7	
	4570.2	1269.5	7.28		108.3		83.7	
	4054.7	1126.3	8.51		118		79.7	
+2°	5566.3	1546.2	5.76		109.6	160	79.7	
	4804.6	1334.6	7.95		124.4		83.7	
	4406	1223.9	8.87		133.6		79.7	
+4°	5836	1621.1	6.29		125.5	160	79.7	
	5156.3	1432.3	8.21		137.8		83.7	
	4711	1308.6	9.07		146.1		79.7	

Outline Installation Dimension Diagram 800ZQ-50,800ZQ-70,800ZQ-85,800ZQ-100,800ZQ-125,800ZQ-160
700ZQ-70C.700ZQ-85C.800HQ-40.800HQ-40D.800HQ-50.800HQ-50D

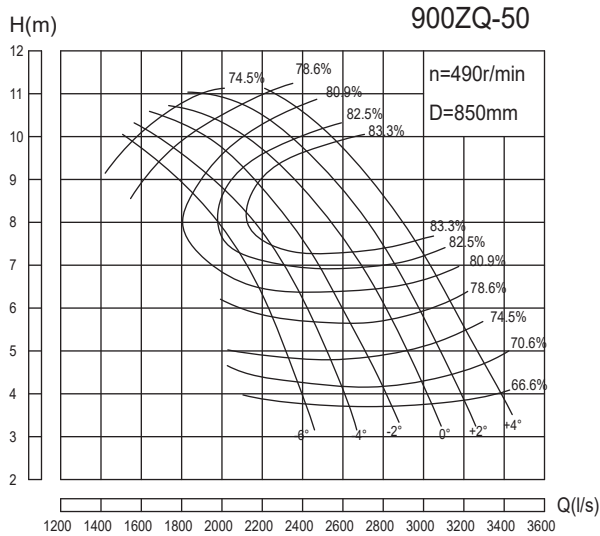


3. Precast concrete wellbore installation



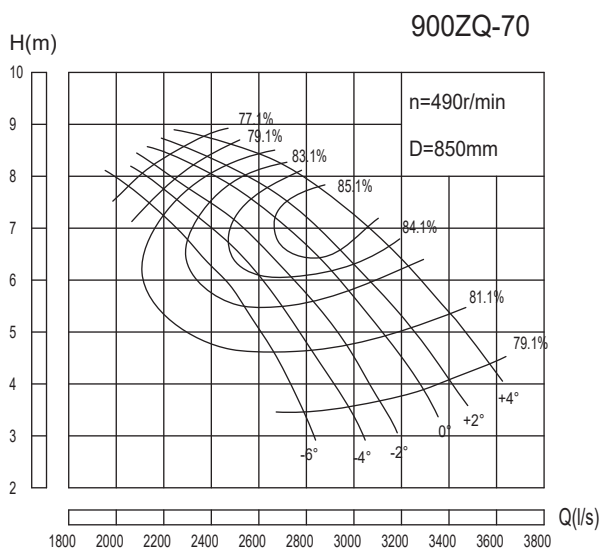
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 910*
- ②The center distance between two pumps in the same tank shall not be less than 3020*
- ③The size with * is for reference only



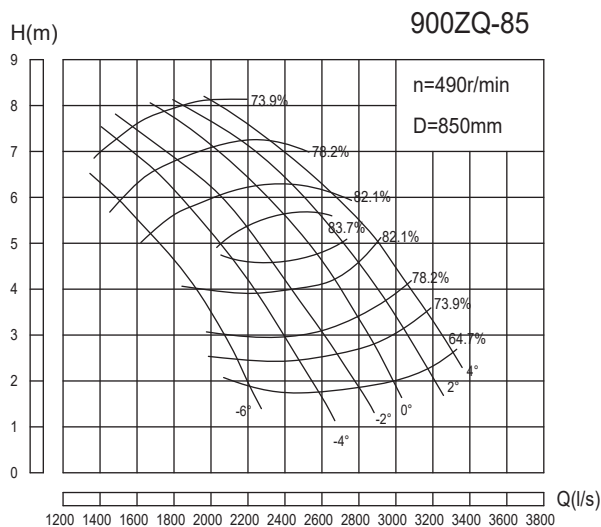
900ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	8460	2350	4.28	490	139.8	220	70.6	850
	7138.8	1983	7.82		183.7		82.8	
	5652	1570	9.85		200.9		75.5	
-4°	9187.2	2552	4.2		148.9	250	70.6	
	7761.6	2156	8.06		202.9		84	
	5832	1620	10.31		217		75.5	
-2°	9918	2755	4.2		160.8	250	70.6	
	7995.6	2221	8.3		215.3		84	
	6120	1700	10.6		234.1		75.5	
0°	10710	2975	4.4		181.9	280	70.6	
	8881.2	2467	8.34		239.7		84.2	
	7092	1970	10.45		256.9		78.6	
+2°	11358	3155	4.5		197.3	315	70.6	
	9349.2	2597	8.55		259.3		84	
	7632	2120	10.8		285.8		78.6	
+4°	11790	3275	4.88		222.1	315	70.6	
	9831.6	2731	8.79		280.3		84	
	7992	2220	11		304.8		78.6	



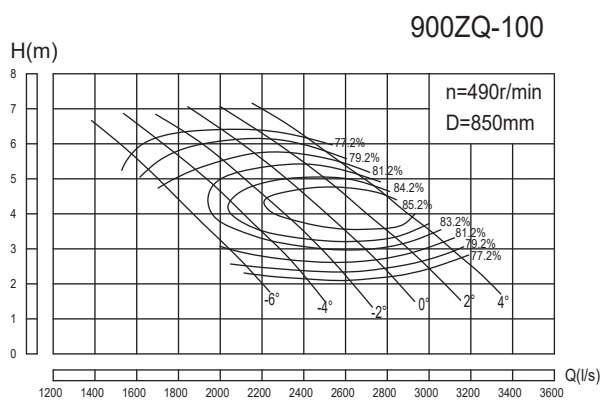
900ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	9961.6	2767.1	3.44	490	118.1	220	79.1	850
	8854.6	2459.6	6.05		175.7		83.1	
	7332.8	2036.9	7.79		201.9		77.1	
-4°	10653.5	2959.3	3.53		129.6	250	79.1	
	9076	2521.1	6.42		188.4		84.3	
	7609.7	2113.8	8.14		218.9		77.1	
-2°	11206.8	3113	3.67		141.7	250	79.1	
	9546.5	2651.8	6.69		206		84.5	
	7775.6	2159.9	8.25		226.7		77.1	
0°	11760.1	3266.7	3.94		159.6	250	79.1	
	9933.8	2759.4	6.99		221		85.6	
	7969.3	2213.7	8.53		240.3		77.1	
+2°	12175.2	3382	4.13		173.2	280	79.1	
	10183	2828.6	7.06		227.8		86	
	8052.1	2236.7	8.62		245.3		77.1	
+4°	12784	3551.1	4.49		197.7	280	79.1	
	10570.3	2936.2	7.52		254.5		85.1	
	8550.4	2375.1	8.8		265.9		77.1	



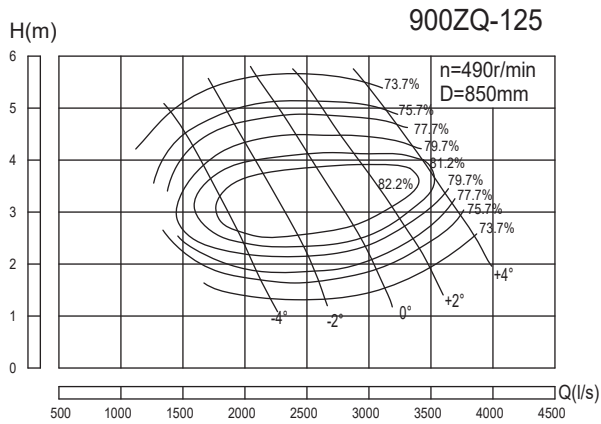
900ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	7498.8	2083	2.56	490	70.7	132	74	850
	6862.3	1906.2	3.89		87.6		83	
	4842.4	1345.1	6.55		116.8		74	
-4°	8688.6	2413.5	2.48		79.3	160	74	
	7415.6	2059.9	4.77		114.8		84	
	5312.9	1475.8	6.96		136.2		74	
-2°	9767.9	2713.3	2.56		92.1	160	74	
	8439.5	2344.3	4.68		128.1		84	
	5838.5	1621.8	7.29		156.7		74	
0°	10514.9	2920.8	2.8		108.4	185	74	
	9241.9	2567.2	4.85		143.7		85	
	6419.5	1783.2	7.56		178.7		74	
+2°	11234.5	3120.7	3.21		132.8	220	74	
	9878.4	2744	5.18		166		84	
	7000.9	1944.7	7.78		200.6		74	
+4°	11953.8	3320.5	3.6		158.5	250	74	
	10099.8	2805.5	5.86		194.3		83	
	7637	2121.4	7.77		218.5		74	



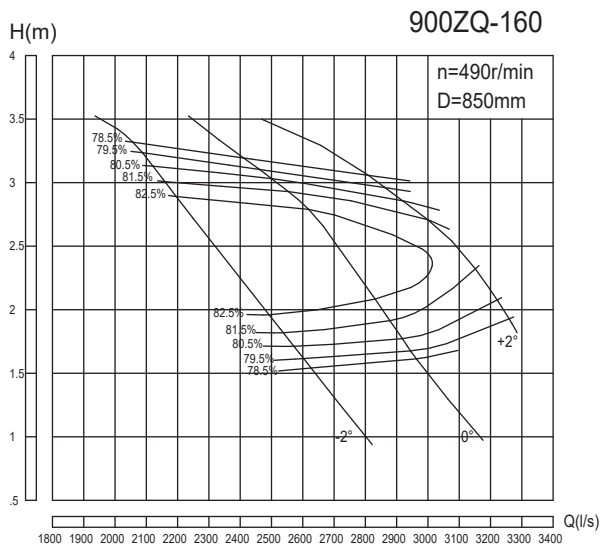
900ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	7360.6	2044.6	2.93	490	72.4	110	81.2	850
	6917.8	1921.6	3.69		84		82.8	
	6225.8	1729.4	4.86		101.5		81.2	
-4°	8412.1	2336.7	2.69		75.9	132	81.2	
	7747.9	2152.2	3.76		94.2		84.3	
	6765.5	1879.3	5.27		119.7		81.2	
-2°	9159.1	2544.2	2.61		80.2	160	81.2	
	8439.5	2344.3	3.86		104.6		84.9	
	7249.7	2013.8	5.53		134.5		81.2	
0°	9878.4	2744	2.7		89.5	160	81.2	
	9131.4	2536.5	3.85		112.4		85.2	
	7789.3	2163.7	5.73		149.8		81.2	
+2°	10514.9	2920.8	2.91		102.7	185	81.2	
	9684.7	2690.2	4.06		125		85.7	
	8412.1	2336.7	5.75		162.3		81.2	
+4°	11068.2	3074.5	3.19		118.5	185	81.2	
	10376.6	2882.4	4.08		135.1		85.4	
	9269.6	2574.9	5.5		171.1		81.2	



900ZQ-125 Performance Parameter Table

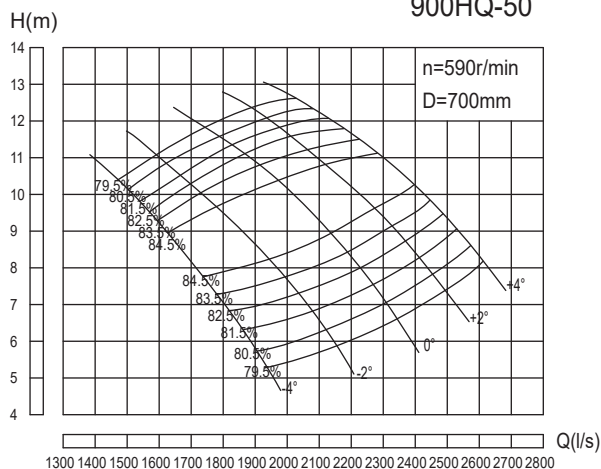
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	7526.5	2090.7	1.87	490	49.4	110	77.7	850
	6862.3	1906.2	2.78		63.2		82.2	
	5478.8	1521.9	4.52		89.1		75.7	
-2°	9214.6	2559.6	1.86		60.1	132	77.7	
	8494.9	2359.7	2.88		80.7		82.6	
	6696.4	1860.1	4.9		118.1		75.7	
0°	10874.5	3020.7	2.09		79.7	160	77.7	
	10017	2782.5	3.17		104		83.2	
	8052.1	2236.7	5.13		148.7		75.7	
+2°	12092	3358.9	2.48		105.2	185	77.7	
	11123.6	3089.9	3.28		120.4		82.6	
	9325.1	2590.3	5.13		172.2		75.7	
+4°	13199	3666.4	3.17		146.7	220	77.7	
	12645.7	3512.7	3.63		153.5		81.5	
	11289.6	3136	4.96		201.6		75.7	



900ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	9370.4	2602.9	1.61	490	51.7	90	79.5	850
	8578.1	2382.8	2.28		63.4		84	
	7512.1	2086.7	3.24		83.4		79.5	
0°	10590.5	2941.8	1.67		60.6	110	79.5	
	9961.6	2767.1	2.29		74.9		83	
	8873.6	2464.9	3.1		94.3		79.5	
+2°	11735.6	3259.9	1.93		77.6	110	79.5	
	11123.6	3089.9	2.48		92.2		81.5	
	10305.4	2862.6	2.96		104.6		79.5	

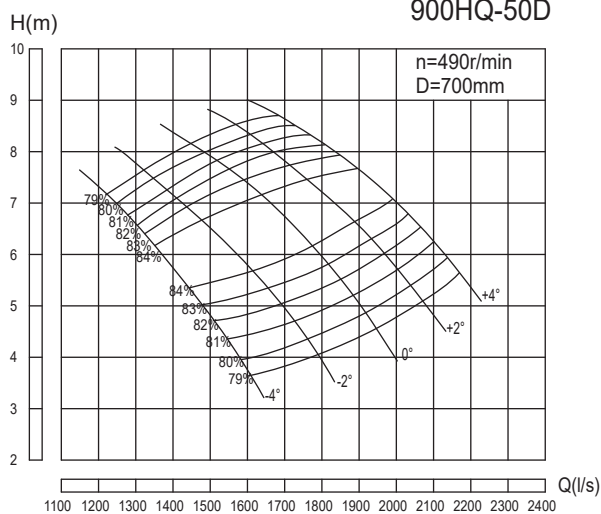
900HQ-50



900HQ-50 Performance Parameter Table

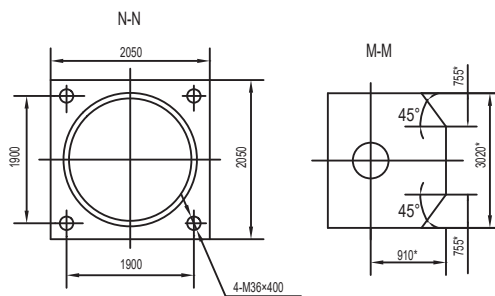
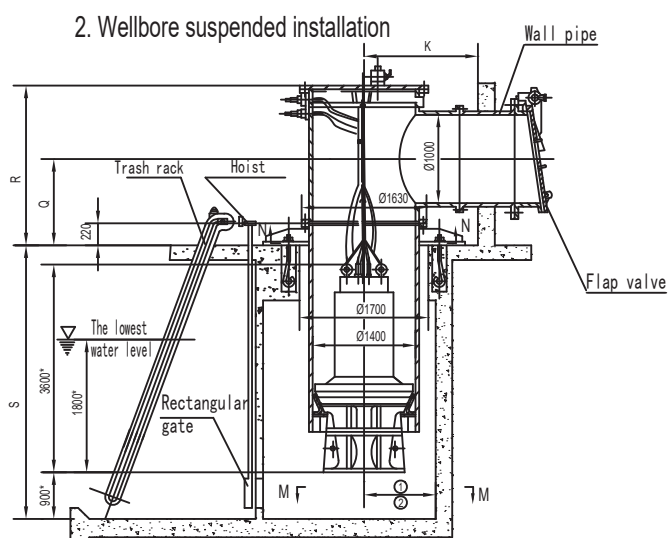
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	6866.6	1907.4	5.72	590	132.8	200	80.6	700
	5954.8	1654.1	8.74		167.6		84.6	
	5378	1493.9	10.14		184.4		80.6	
-2°	7629.5	2119.3	6.31		162.8	220	80.6	
	6513.1	1809.2	9.46		198.2		84.7	
	5843.2	1623.1	10.82		213.8		80.6	
0°	8318.2	2310.6	7.03		197.7	280	80.6	
	7257.2	2015.9	9.92		231.9		84.6	
	6438.6	1788.5	11.58		252.1		80.6	
+2°	8839.1	2455.3	7.84		234.3	315	80.6	
	7629.5	2119.3	10.82		265.9		84.6	
	6997	1943.6	12.08		285.8		80.6	
+4°	9267.1	2574.2	8.56		268.2	355	80.6	
	8187.8	2274.4	11.18		294.9		84.6	
	7480.8	2078	12.35		312.4		80.6	

900HQ-50D



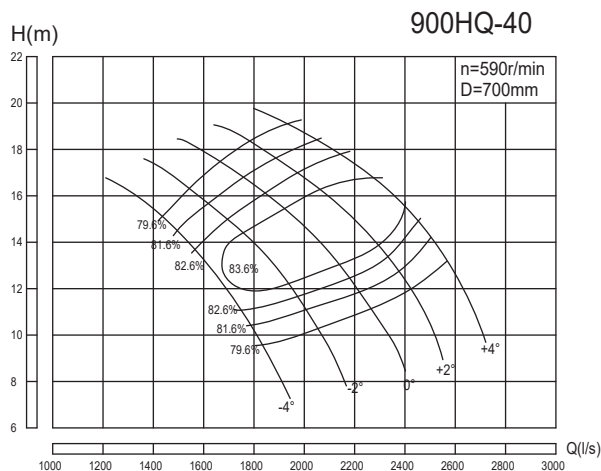
900HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	5702.8	1584.1	3.95	490	76.6	110	80.1	700
	4945.7	1373.8	6.03		96.6		84.1	
	4466.5	1240.7	6.99		106.2		80.1	
-2°	6336.4	1760.1	4.35		93.8	132	80.1	
	5409	1502.5	6.53		114.3		84.2	
	4852.8	1348	7.46		123.2		80.1	
0°	6908.4	1919	4.85		114	160	80.1	
	6027.5	1674.3	6.84		133.6		84.1	
	5347.4	1485.4	7.99		145.4		80.1	
+2°	7341.1	2039.2	5.41		135.1	185	80.1	
	6336.4	1760.1	7.46		153.2		84.1	
	5811.1	1614.2	8.33		164.7		80.1	
+4°	7696.4	2137.9	5.91		154.7	185	80.1	
	6800	1888.9	7.71		169.9		84.1	
	6212.9	1725.8	8.52		180.1		80.1	



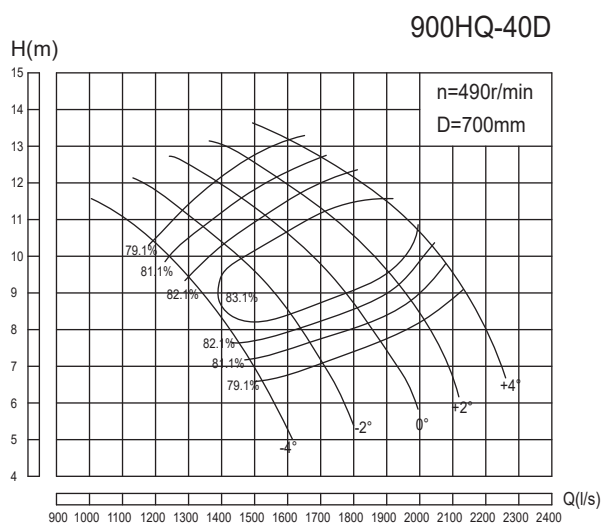
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 910*
- ②The center distance between two pumps in the same tank shall not be less than 3020*
- ③The size with * is for reference only



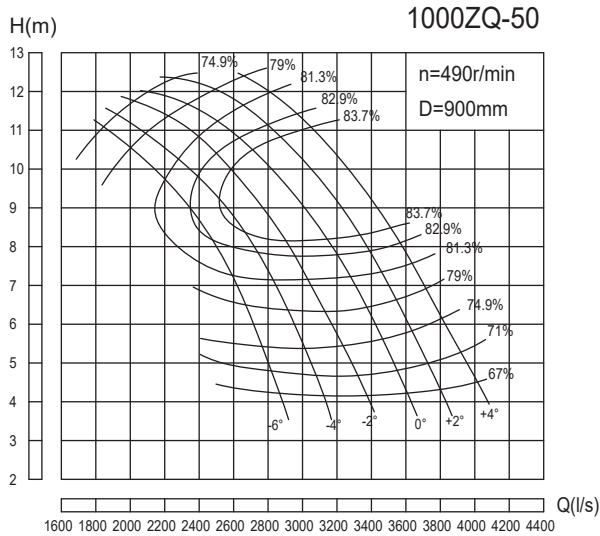
900HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	6606	1835	9.58	590	216.6	280	79.6	700
	6048	1680	12.3		243.1		83.4	
	5191.9	1442.2	15.23		270.7		79.6	
-2°	7406.3	2057.3	10.33		261.9	355	79.6	
	6699.2	1860.9	13.34		291.3		83.6	
	5582.5	1550.7	16.43		314		79.6	
0°	8132	2258.9	11.15		310.4	400	79.6	
	7257.2	2015.9	14.51		342		83.9	
	6010.6	1669.6	17.64		363		79.6	
+2°	8727.5	2424.3	12.06		360.3	450	79.6	
	7815.6	2171	15.32		385.7		84.6	
	6419.9	1783.3	18.52		407		79.6	
+4°	9248.4	2569	13.3		421.1	500	79.6	
	8374	2326.1	16.41		445.3		84.1	
	6978.2	1938.4	19.27		460.3		79.6	



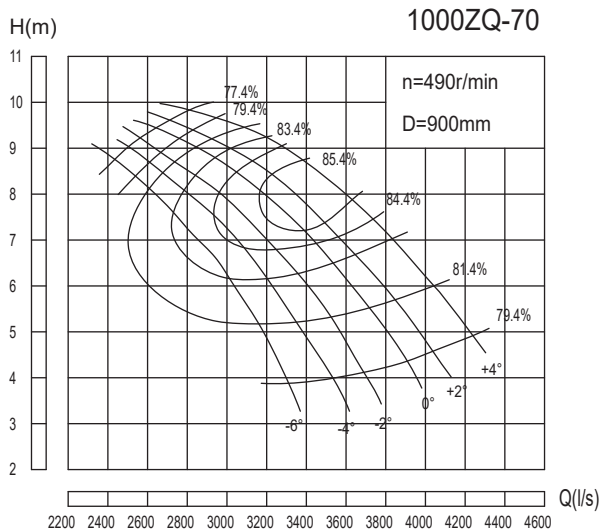
900HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	5486.4	1524	6.61	490	124.9	160	79.1	700
	5022.7	1395.2	8.49		140.2		82.9	
	4311.7	1197.7	10.51		156.1		79.1	
-2°	6151	1708.6	7.13		151.1	185	79.1	
	5563.8	1545.5	9.2		167.9		83.1	
	4636.4	1287.9	11.33		181		79.1	
0°	6753.6	1876	7.69		178.9	220	79.1	
	6027.5	1674.3	10.01		197.1		83.4	
	4991.8	1386.6	12.17		209.3		79.1	
+2°	7248.2	2013.4	8.32		207.8	250	79.1	
	6491.2	1803.1	10.57		222.3		84.1	
	5332	1481.1	12.78		234.8		79.1	
+4°	7681	2133.6	9.17		242.6	280	79.1	
	6954.5	1931.8	11.32		256.6		83.6	
	5795.6	1609.9	13.29		265.3		79.1	



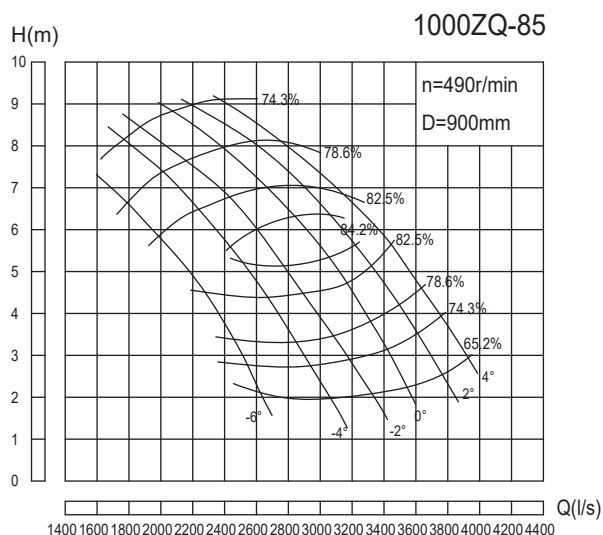
1000ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	10042.6	2789.6	4.8	490	185	280	71	900
	8474	2353.9	8.77		243.4		83.2	
	6709.3	1863.7	11.04		265.9		75.9	
-4°	10905.8	3029.4	4.71		197.1	315	71	
	9213.5	2559.3	9.04		268.9		84.4	
	6922.8	1923	11.56		287.3		75.9	
-2°	11773.1	3270.3	4.71		212.8	355	71	
	9491	2636.4	9.31		285.3		84.4	
	7264.8	2018	11.88		309.9		75.9	
0°	12713.4	3531.5	4.93		240.6	355	71	
	10542.6	2928.5	9.35		317.5		84.6	
	8418.6	2338.5	11.72		340.3		79	
+2°	13482.7	3745.2	5.04		260.8	400	71	
	11098.1	3082.8	9.59		343.6		84.4	
	9059.8	2516.6	12.11		378.4		79	
+4°	13995.4	3887.6	5.47		293.8	450	71	
	11670.5	3241.8	9.85		371.1		84.4	
	9487.1	2635.3	12.33		403.5		79	



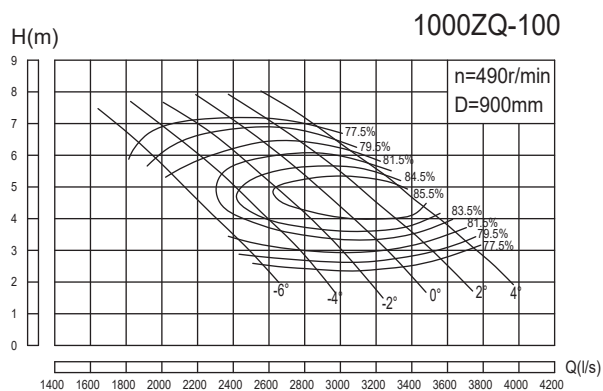
1000ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	11824.9	3284.7	3.85	490	156.2	280	79.4	900
	10510.9	2919.7	6.78		232.8		83.4	
	8704.4	2417.9	8.74		267.8		77.4	
-4°	12646.1	3512.8	3.96		171.9	315	79.4	
	10773.7	2992.7	7.19		249.5		84.6	
	9032.8	2509.1	9.13		290.3		77.4	
-2°	13303.1	3695.3	4.11		187.6	315	79.4	
	11332.1	3147.8	7.5		273.1		84.8	
	9230	2563.9	9.25		300.6		77.4	
0°	13960.1	3877.8	4.42		211.8	355	79.4	
	11792.2	3275.6	7.83		292.9		85.9	
	9460.1	2627.8	9.56		318.4		77.4	
+2°	14452.6	4014.6	4.62		229.2	355	79.4	
	12087.7	3357.7	7.91		301.9		86.3	
	9558.4	2655.1	9.66		325.1		77.4	
+4°	15175.4	4215.4	5.04		262.5	400	79.4	
	12547.4	3485.4	8.43		337.5		85.4	
	10149.8	2819.4	9.87		352.7		77.4	



1000ZQ-85 Performance Parameter Table

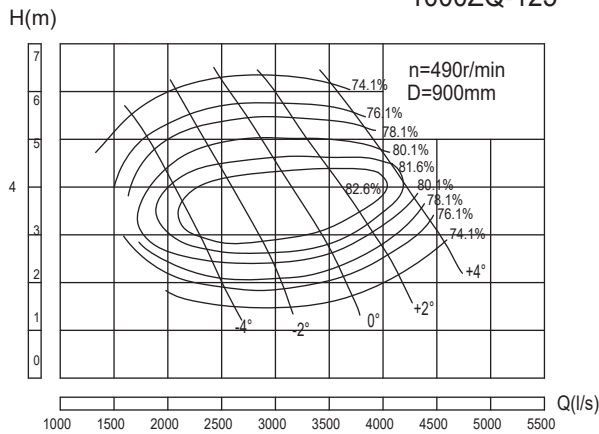
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	8901.4	2472.6	2.87	490	93.6		74.4	900
	8146.1	2262.8	4.36		116	160	83.4	
	5748.1	1596.7	7.35		154.7		74.4	
-4°	10314	2865	2.77		104.6		74.4	
	8803.1	2445.3	5.34		151.8	185	84.4	
	6306.5	1751.8	7.8		180.2		74.4	
-2°	11594.9	3220.8	2.87		121.9		74.4	
	10018.4	2782.9	5.24		169.5	220	84.4	
	6930.7	1925.2	8.17		207.4		74.4	
0°	12481.9	3467.2	3.13		143.1		74.4	
	10971	3047.5	5.44		190.4	250	85.4	
	7620.5	2116.8	8.48		236.7		74.4	
+2°	13335.8	3704.4	3.6		175.8		74.4	
	11726.3	3257.3	5.81		220	280	84.4	
	8310.2	2308.4	8.73		265.7		74.4	
+4°	14189.8	3941.6	4.04		210		74.4	
	11989.1	3330.3	6.57		257.4	315	83.4	
	9065.9	2518.3	8.72		289.5		74.4	



1000ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	8737.2	2427	3.29	490	96.1		81.5	900
	8211.6	2281	4.14		111.5	160	83.1	
	7390.4	2052.9	5.45		134.7		81.5	
-4°	9985.3	2773.7	3.01		100.5		81.5	
	9197.3	2554.8	4.21		124.7	185	84.6	
	8031.2	2230.9	5.91		158.7		81.5	
-2°	10872.4	3020.1	2.93		106.5		81.5	
	10018.4	2782.9	4.33		138.7	185	85.2	
	8605.8	2390.5	6.2		178.4		81.5	
0°	11726.3	3257.3	3.02		118.4		81.5	
	10839.6	3011	4.32		149.2	220	85.5	
	9246.2	2568.4	6.42		198.5		81.5	
+2°	12481.9	3467.2	3.26		136.1		81.5	
	11496.2	3193.4	4.55		165.7	220	86	
	9985.3	2773.7	6.44		215		81.5	
+4°	13138.9	3649.7	3.58		157.3		81.5	
	12317.8	3421.6	4.57		179	250	85.7	
	11003.8	3056.6	6.17		227		81.5	

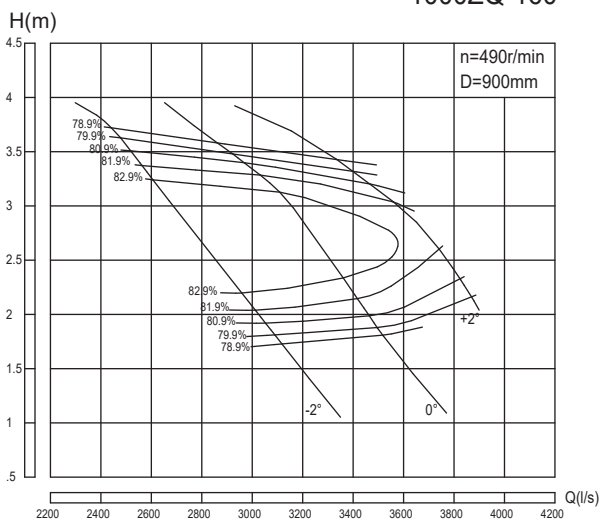
1000ZQ-125



1000ZQ-125 Performance Parameter Table

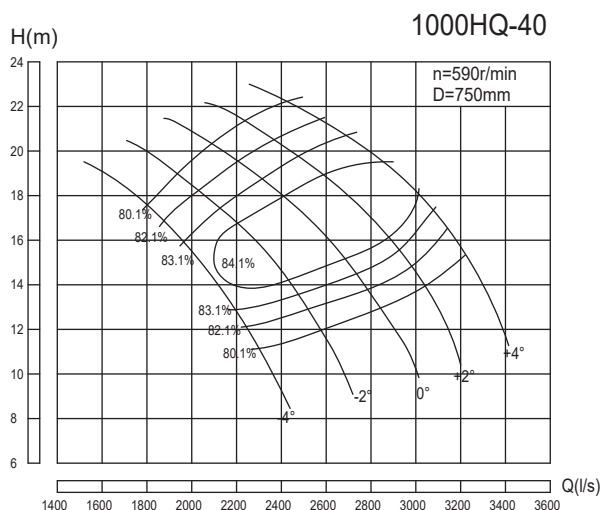
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	8934.5	2481.8	2.1	490	65.5	132	78.1	900
	8146.1	2262.8	3.11		83.6		82.6	
	6503.8	1806.6	5.07		118.1		76.1	
-2°	10937.9	3038.3	2.09		79.8	160	78.1	
	10084	2801.1	3.23		106.9		83	
	7948.8	2208	5.49		156.3		76.1	
0°	12908.9	3585.8	2.34		105.4	220	78.1	
	11890.4	3302.9	3.56		138		83.6	
	9558.4	2655.1	5.76		197.1		76.1	
+2°	14353.9	3987.2	2.77		138.7	250	78.1	
	13204.4	3667.9	3.68		159.5		83	
	11069.3	3074.8	5.76		228.3		76.1	
+4°	15667.9	4352.2	3.56		194.6	280	78.1	
	15010.9	4169.7	4.07		203.3		81.9	
	13401.4	3722.6	5.56		266.8		76.1	

1000ZQ-160



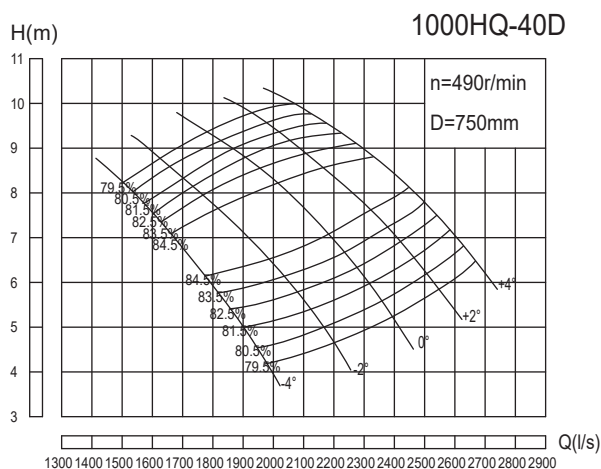
1000ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	11123.3	3089.8	1.81	490	68.7	132	79.9	900
	10182.6	2828.5	2.56		84.2		84.4	
	8917.2	2477	3.63		110.4		79.9	
0°	12571.6	3492.1	1.87		80.2	132	79.9	
	11824.9	3284.7	2.57		99.3		83.4	
	10533.2	2925.9	3.47		124.7		79.9	
+2°	13930.6	3869.6	2.16		102.6	160	79.9	
	13204.4	3667.9	2.77		121.7		81.9	
	12233.2	3398.1	3.32		138.5		79.9	



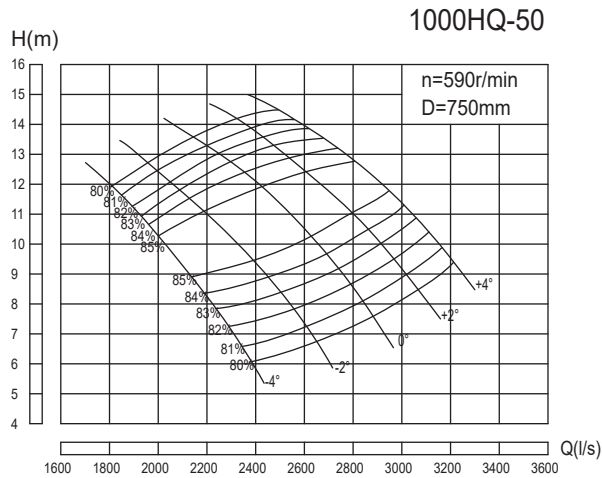
1000HQ-40 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	8288.6	2302.4	11.15	590	314.4	450	80.1	750
	7588.4	2107.9	14.31		352.7		83.9	
	6514.2	1809.5	17.72		392.7		80.1	
-2°	9292.7	2581.3	12.02		380	500	80.1	
	8405.6	2334.9	15.52		422.7		84.1	
	7004.5	1945.7	19.12		455.6		80.1	
0°	10203.5	2834.3	12.97		450.2	560	80.1	
	9105.8	2529.4	16.88		496.3		84.4	
	7541.6	2094.9	20.52		526.5		80.1	
+2°	10950.5	3041.8	14.03		522.7	630	80.1	
	9806.4	2724	17.83		559.9		85.1	
	8055.4	2237.6	21.55		590.6		80.1	
+4°	11604.2	3223.4	15.47		610.7	710	80.1	
	10507	2918.6	19.08		645.7		84.6	
	8755.9	2432.2	22.42		667.8		80.1	



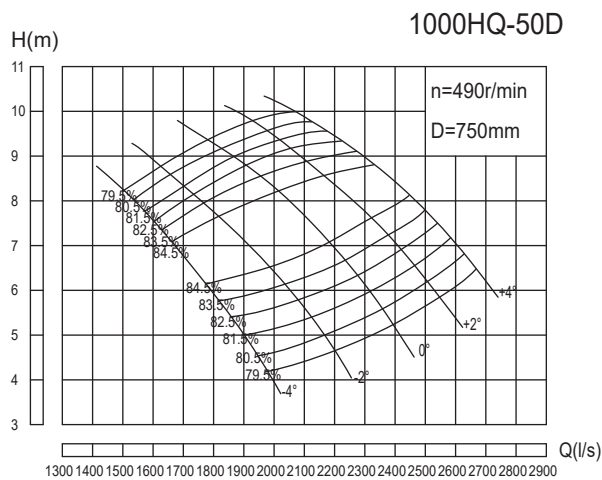
1000HQ-40D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	6748.2	1874.5	7.59	490	175.6	250	79.5	750
	6178	1716.1	9.74		196.8		83.3	
	5303.5	1473.2	12.06		219.2		79.5	
-2°	7565.4	2101.5	8.18		212.1	280	79.5	
	6843.2	1900.9	10.56		235.8		83.5	
	5702.8	1584.1	13.01		254.3		79.5	
0°	8306.6	2307.4	8.83		251.4	315	79.5	
	7413.5	2059.3	11.49		277		83.8	
	6139.8	1705.5	13.97		294		79.5	
+2°	8915	2476.4	9.55		291.8	355	79.5	
	7983.7	2217.7	12.13		312.3		84.5	
	6558.1	1821.7	14.67		329.8		79.5	
+4°	9447.1	2624.2	10.53		341	400	79.5	
	8554	2376.1	12.99		360.5		84	
	7128.4	1980.1	15.26		372.9		79.5	



1000HQ-50 Performance Parameter Table

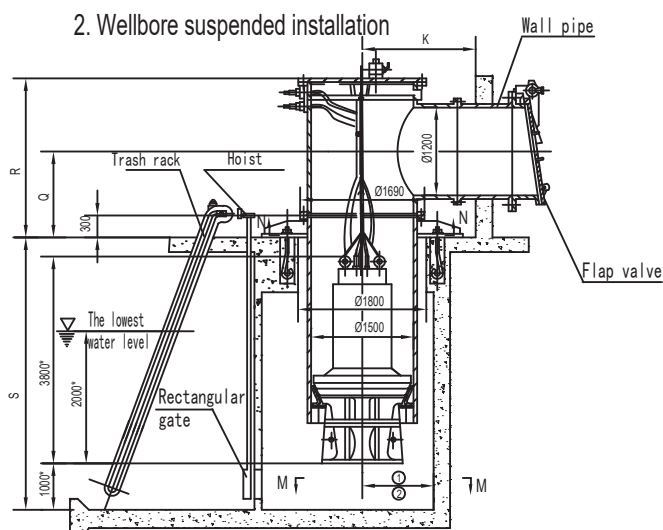
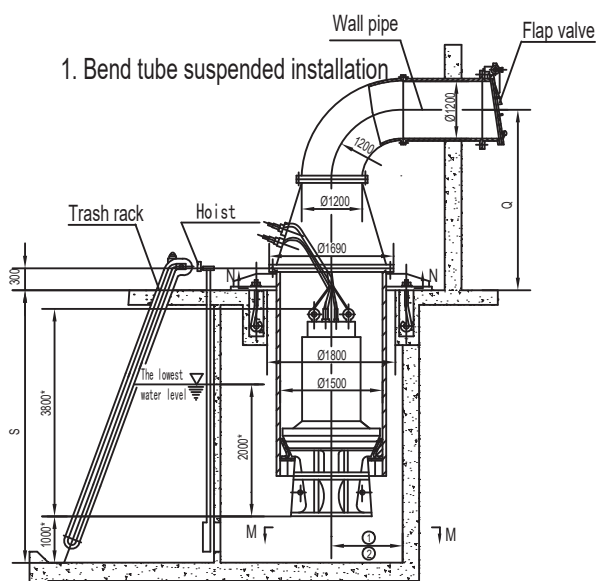
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	8445.6	2346	6.57	590	186.7		81	750
	7324.2	2034.5	10.04		235.7	280	85	
	6614.6	1837.4	11.64		259		81	
-2°	9384.1	2606.7	7.24		228.6		81	
	8010.7	2225.2	10.87		278.8	315	85.1	
	7186.7	1996.3	12.42		300.3		81	
0°	10230.8	2841.9	8.07		277.8		81	
	8926.2	2479.5	11.38		325.7	400	85	
	7919.3	2199.8	13.3		354.3		81	
+2°	10871.6	3019.9	9		329.2		81	
	9384.1	2606.7	12.42		373.6	450	85	
	8605.8	2390.5	13.87		401.6		81	
+4°	11398.3	3166.2	9.83		376.9		81	
	10070.6	2797.4	12.83		414.2	450	85	
	9200.9	2555.8	14.18		438.9		81	



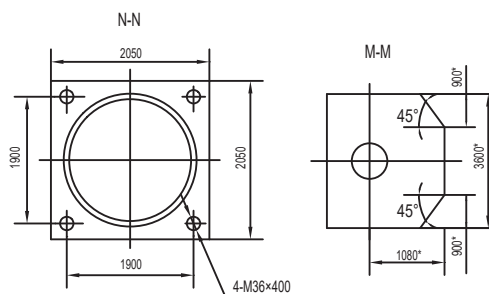
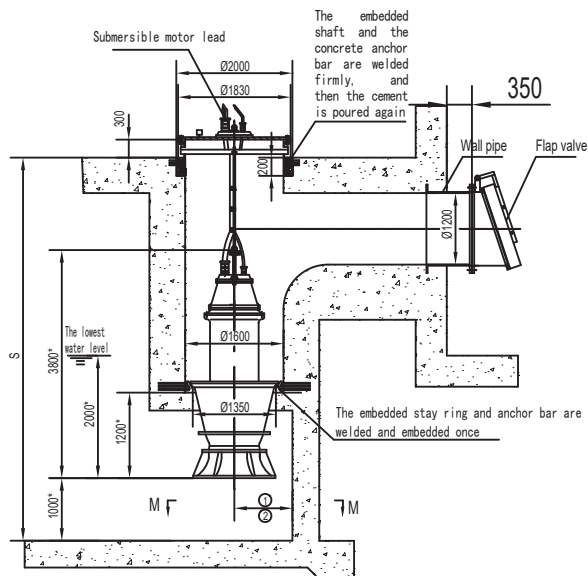
1000HQ-50D Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	7014.2	1948.4	4.53	490	107.6		80.5	835
	6082.9	1689.7	6.92		135.7	160	84.5	
	5493.6	1526	8.03		149.3		80.5	
-2°	7793.6	2164.9	5		131.9		80.5	
	6653.2	1848.1	7.49		160.5	185	84.6	
	5968.8	1658	8.56		173		80.5	
0°	8496.7	2360.2	5.57		160.2		80.5	
	7413.5	2059.3	7.85		187.7	220	84.5	
	6576.8	1826.9	9.17		204.2		80.5	
+2°	9029.2	2508.1	6.21		189.8		80.5	
	7793.6	2164.9	8.56		215.1	250	84.5	
	7147.1	1985.3	9.56		231.3		80.5	
+4°	9466.2	2629.5	6.78		217.3		80.5	
	8363.9	2323.3	8.85		238.7	280	84.5	
	7641.4	2122.6	9.78		253		80.5	

Outline Installation Dimension Diagram 900HQ-40,900HQ-40D,1000HQ-40,1000HQ-40D,1000HQ-50,1000HQ-50D
1000ZQ-50,1000ZQ-70,1000ZQ-85,1000ZQ-100,1000ZQ-125,1000ZQ-160



3. Precast concrete wellbore installation



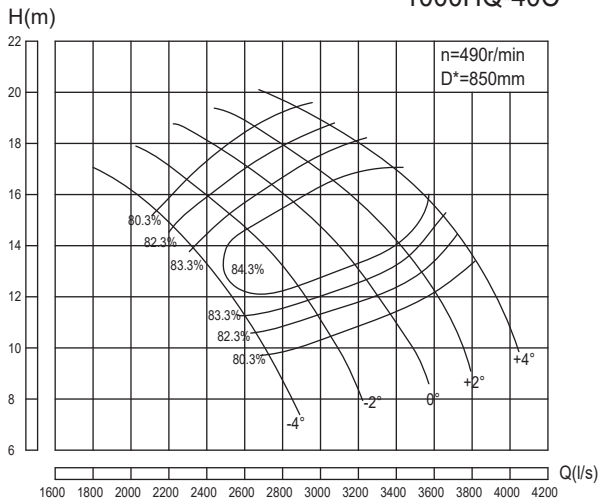
Notice: The dimensions of S, Q, R and K are according to the user's requirements

①The recommended distance between the pump center and the back wall is 1080*

②The center distance between two pumps in the same tank shall not be less than 3600*

③The size with * is for reference only

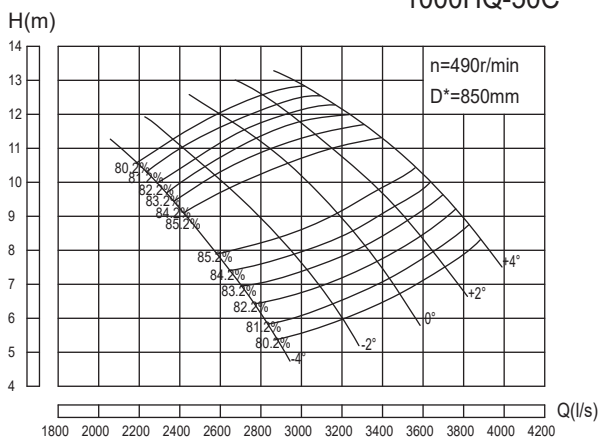
1000HQ-40C



1000HQ-40C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	9823.3	2728.7	9.75	490	325	450	80.3	850
	8993.2	2498.1	12.51		364.5		84.1	
	7720.2	2144.5	15.49		405.8		80.3	
-2°	11013.1	3059.2	10.51		392.8	500	80.3	
	9961.6	2767.1	13.57		437		84.3	
	8301.2	2305.9	16.71		470.7		80.3	
0°	12092	3358.9	11.34		465.3	560	80.3	
	10791.7	2997.7	14.76		513.1		84.6	
	8937.7	2482.7	17.94		544.1		80.3	
+2°	12977.6	3604.9	12.27		540.4	650	80.3	
	11621.9	3228.3	15.58		578.4		85.3	
	9546.5	2651.8	18.84		610.3		80.3	
+4°	13752.4	3820.1	13.52		631	750	80.3	
	12452	3458.9	16.68		667.4		84.8	
	10376.6	2882.4	19.6		690.2		80.3	

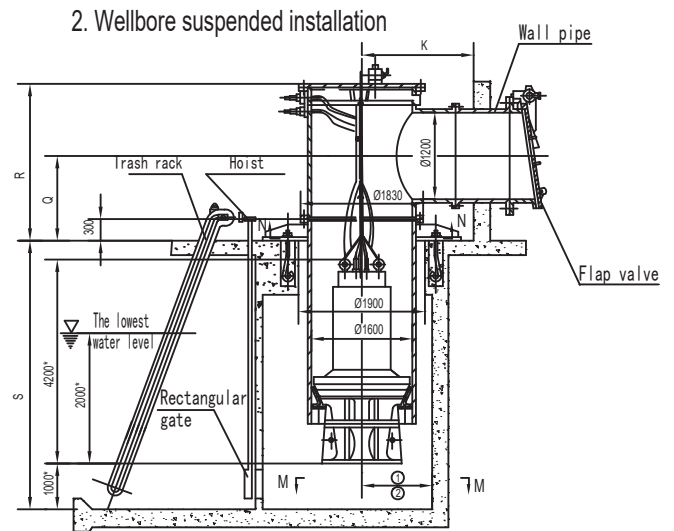
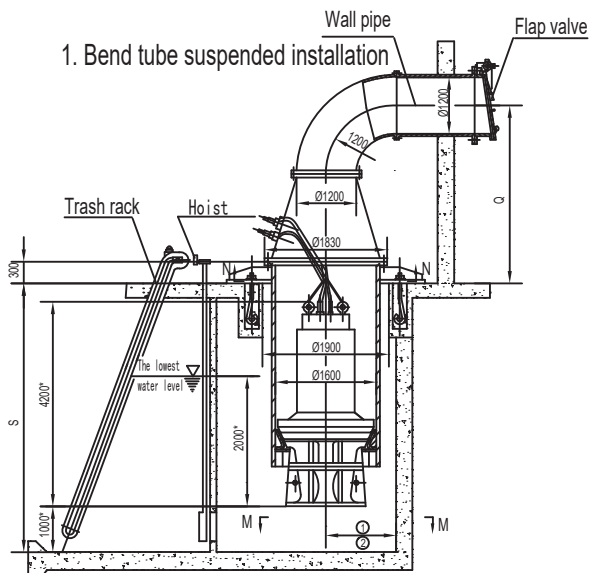
1000HQ-50C



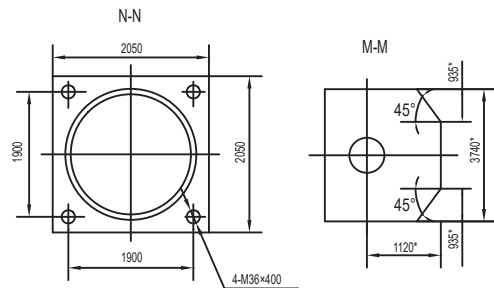
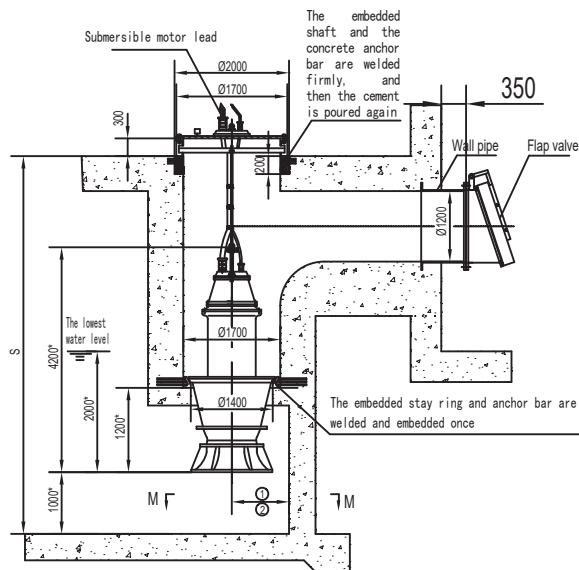
1000HQ-50C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	10210.7	2836.3	5.82	490	199.4	315	81.2	850
	8854.6	2459.6	8.89		251.8		85.2	
	7997	2221.4	10.31		276.7		81.2	
-2°	11345	3151.4	6.42		244.4	355	81.2	
	9684.7	2690.2	9.63		297.9		85.3	
	8688.6	2413.5	11		320.7		81.2	
0°	12368.9	3435.8	7.15		296.8	400	81.2	
	10791.7	2997.7	10.08		347.9		85.2	
	9574.2	2659.5	11.78		378.5		81.2	
+2°	13143.6	3651	7.98		352	450	81.2	
	11345	3151.4	11		399.1		85.2	
	10404.4	2890.1	12.28		428.8		81.2	
+4°	13780.1	3827.8	8.71		402.8	500	81.2	
	12175.2	3382	11.37		442.8		85.2	
	11123.6	3089.9	12.56		468.9		81.2	

Outline Installation Dimension Diagram 1000HQ-40C, 1000HQ-50C



3. Precast concrete wellbore installation



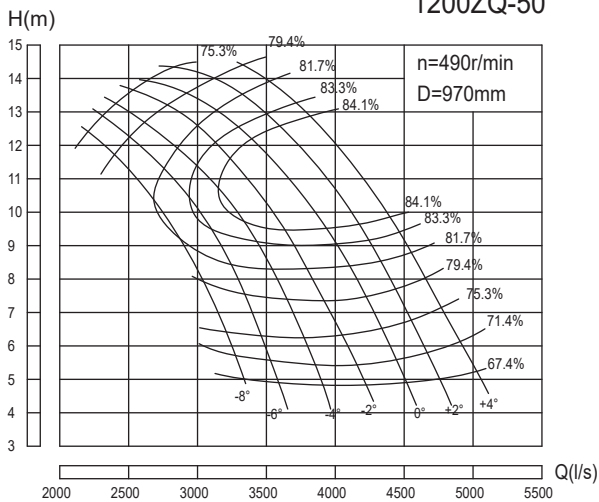
Notice: The dimensions of S, Q, R and K are according to the user's requirements

①The recommended distance between the pump center and the back wall is 1120*

②The center distance between two pumps in the same tank shall not be less than 3740*

③The size with * is for reference only

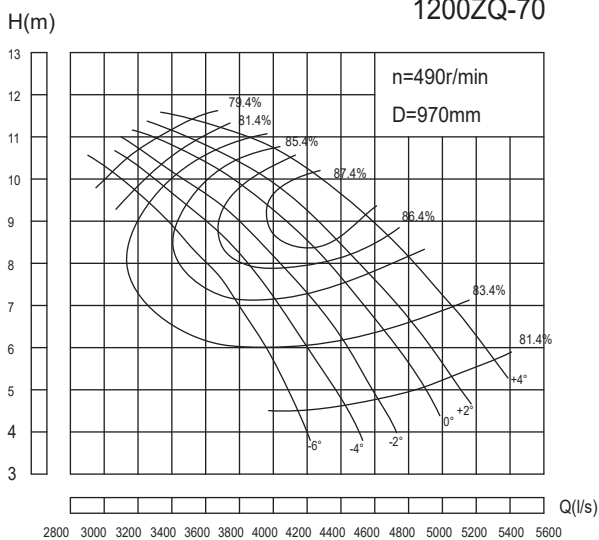
1200ZQ-50



1200ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	12572.6	3492.4	5.57	490	267.3		71.4	970
	10609.2	2947	10.18		352	400	83.6	
	8399.5	2333.2	12.83		384.9		76.3	
-4°	13653.4	3792.6	5.47		285		71.4	
	11534.8	3204.1	10.5		389.2	450	84.8	
	8667	2407.5	13.43		415.7		76.3	
-2°	14739.5	4094.3	5.47		307.7		71.4	
	11882.5	3300.7	10.81		412.8	500	84.8	
	9095	2526.4	13.8		448.3		76.3	
0°	15916.7	4421.3	5.73		348.1		71.4	
	13198.7	3666.3	10.86		459.5	560	85	
	10539.7	2927.7	13.61		492.3		79.4	
$+2^\circ$	16879.7	4688.8	5.86		377.5		71.4	
	13894.2	3859.5	11.13		496.9	560	84.8	
	11342.2	3150.6	14.06		547.3		79.4	
$+4^\circ$	17521.6	4867.1	6.36		425.3		71.4	
	14611	4058.6	11.45		537.6	630	84.8	
	11877.1	3299.2	14.33		584.1		79.4	

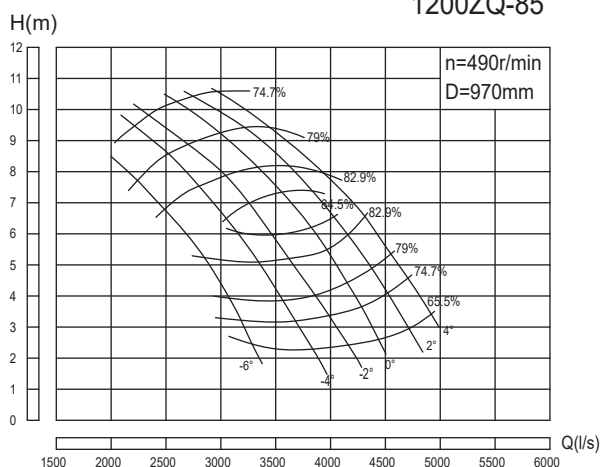
1200ZQ-70



1200ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	14804.3	4112.3	4.48	490	222		81.4	970
	13159.4	3655.4	7.88		330.9	400	85.4	
	10897.6	3027.1	10.15		379.6		79.4	
-4°	15832.1	4397.8	4.6		243.8		81.4	
	13488.1	3746.7	8.36		354.8	450	86.6	
	11308.7	3141.3	10.6		411.4		79.4	
-2°	16654.7	4626.3	4.78		266.5		81.4	
	14187.2	3940.9	8.72		388.4	450	86.8	
	11555.6	3209.9	10.74		425.9		79.4	
0°	17477.3	4854.8	5.13		300.1		81.4	
	14763.2	4100.9	9.1		416.5	500	87.9	
	11843.3	3289.8	11.1		451.2		79.4	
$+2^\circ$	18094	5026.1	5.37		325.3		81.4	
	15133.3	4203.7	9.19		429.2	500	88.3	
	11966.8	3324.1	11.22		460.8		79.4	
$+4^\circ$	18998.6	5277.4	5.85		372.1		81.4	
	15709	4363.6	9.79		479.5	560	87.4	
	12706.9	3529.7	11.46		499.8		79.4	

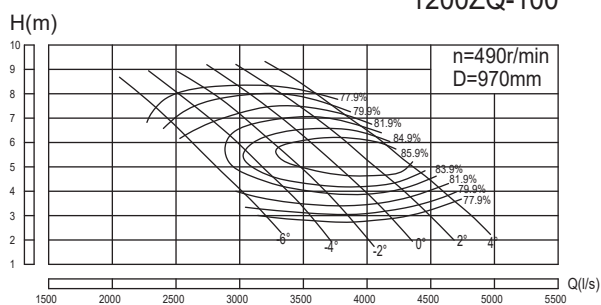
1200ZQ-85



1200ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	11144.2	3095.6	3.33	490	135.2	250	74.8	970
	10198.4	2832.9	5.06		167.8		83.8	
	7196.4	1999	8.54		223.9		74.8	
-4°	12912.5	3586.8	3.22		151.5	280	74.8	
	11021	3061.4	6.21		219.9		84.8	
	7895.5	2193.2	9.06		260.6		74.8	
-2°	14516.3	4032.3	3.33		176.1	315	74.8	
	12542.4	3484	6.09		245.5		84.8	
	8676.7	2410.2	9.49		300		74.8	
0°	15626.5	4340.7	3.64		207.2	400	74.8	
	13735.1	3815.3	6.32		275.7		85.8	
	9540.4	2650.1	9.85		342.3		74.8	
+2°	16695.7	4637.7	4.18		254.2	400	74.8	
	14680.8	4078	6.75		318.4		84.8	
	10404	2890	10.14		384.3		74.8	
+4°	17764.9	4934.7	4.69		303.5	450	74.8	
	15009.8	4169.4	7.63		372.4		83.8	
	11349.7	3152.7	10.12		418.4		74.8	

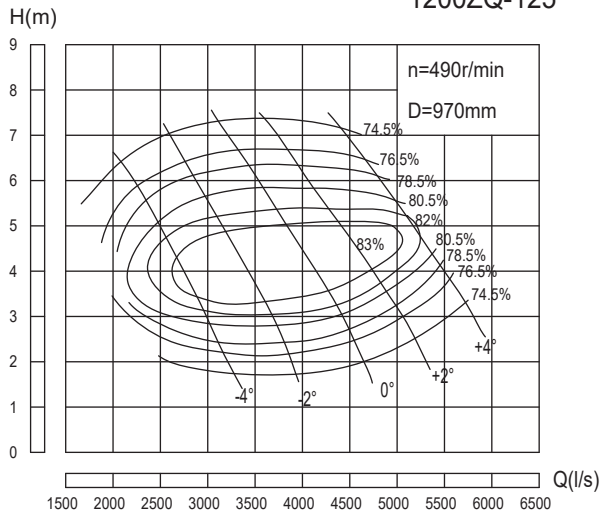
1200ZQ-100



1200ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	10938.6	3038.5	3.82	490	139	250	81.9	970
	10280.5	2855.7	4.81		161.4		83.5	
	9252.7	2570.2	6.33		194.9		81.9	
-4°	12501.4	3472.6	3.5		145.6	250	81.9	
	11514.2	3198.4	4.89		180.5		85	
	10054.4	2792.9	6.86		229.5		81.9	
-2°	13611.6	3781	3.4		154	280	81.9	
	12542.4	3484	5.03		200.8		85.6	
	10774.1	2992.8	7.2		258.1		81.9	
0°	14680.8	4078	3.51		171.5	315	81.9	
	13570.6	3769.6	5.01		215.7		85.9	
	11576.2	3215.6	7.46		287.3		81.9	
+2°	15626.5	4340.7	3.78		196.5	355	81.9	
	14392.8	3998	5.29		240.1		86.4	
	12501.4	3472.6	7.49		311.5		81.9	
+4°	16449.1	4569.2	4.15		227.1	355	81.9	
	15421	4283.6	5.31		259.2		86.1	
	13776.1	3826.7	7.16		328.2		81.9	

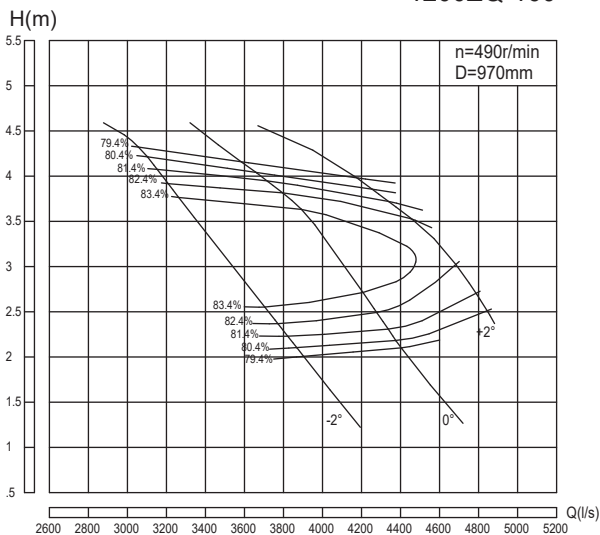
1200ZQ-125



1200ZQ-125 Performance Parameter Table

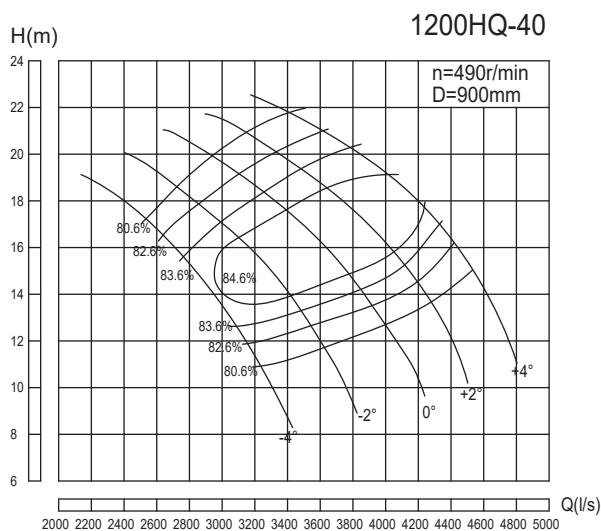
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	11185.6	3107.1	2.44	490	94.6	185	78.6	970
	10198.4	2832.9	3.62		121.1		83.1	
	8142.5	2261.8	5.89		170.6		76.6	
-2°	13694	3803.9	2.42		114.9		78.6	
	12624.8	3506.9	3.75		154.5	250	83.5	
	9951.8	2764.4	6.38		225.9		76.6	
0°	16161.1	4489.2	2.72		152.4		78.6	
	14886.4	4135.1	4.13		199.2	315	84.1	
	11966.8	3324.1	6.69		284.8		76.6	
+2°	17970.5	4991.8	3.22		200.6		78.6	
	16531.2	4592	4.27		230.4	355	83.5	
	13858.2	3849.5	6.69		329.8		76.6	
+4°	19615.7	5448.8	4.13		280.9		78.6	
	18793.1	5220.3	4.73		294	400	82.4	
	16778.2	4660.6	6.46		385.6		76.6	

1200ZQ-160



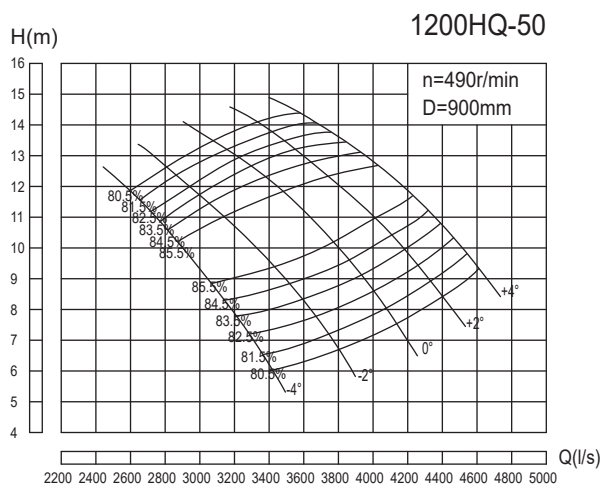
1200ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	13925.9	3868.3	2.1	490	99.1		80.4	970
	12748	3541.1	2.97		121.5	185	84.9	
	11164	3101.1	4.21		159.3		80.4	
0°	15738.8	4371.9	2.17		115.8		80.4	
	14804.3	4112.3	2.98		143.3	200	83.9	
	13187.2	3663.1	4.04		180.6		80.4	
+2°	17440.6	4844.6	2.51		148.4		80.4	
	16531.2	4592	3.22		176	220	82.4	
	15315.5	4254.3	3.86		200.4		80.4	



1200HQ-40 Performance Parameter Table

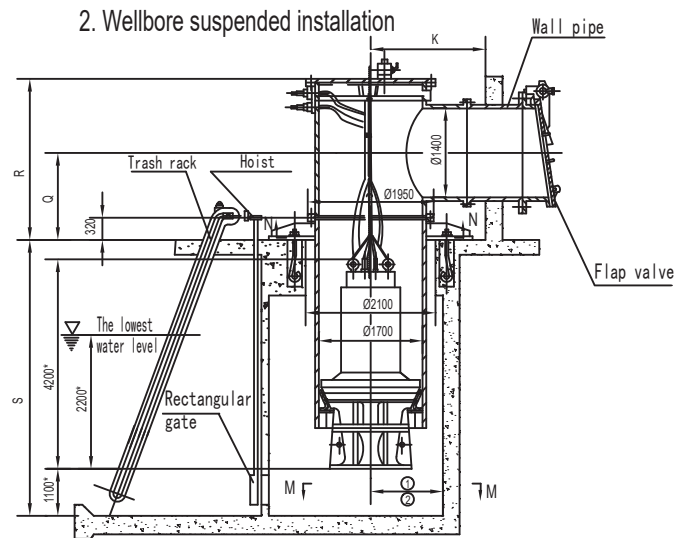
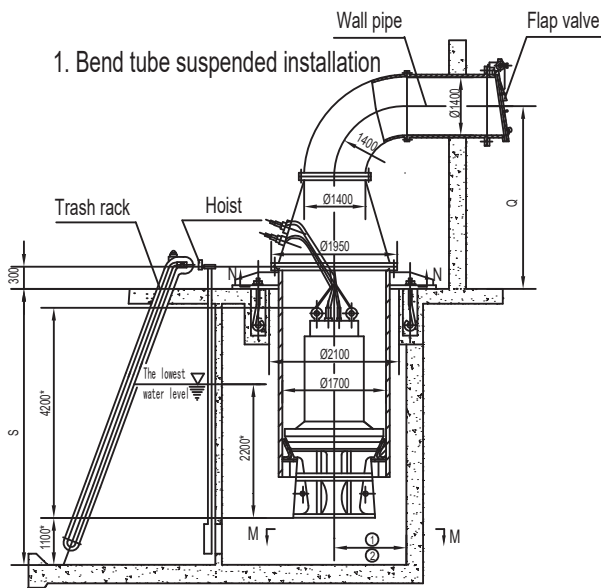
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	11660.8	3239.1	10.93	490	430.9	630	80.6	900
	10675.1	2965.3	14.03		483.6		84.4	
	9164.2	2545.6	17.37		538.2		80.6	
-2°	13073	3631.4	11.78		520.7	710	80.6	
	11824.9	3284.7	15.21		579.3		84.6	
	9853.9	2737.2	18.74		624.3		80.6	
0°	14353.9	3987.2	12.71		616.8	800	80.6	
	12810.2	3558.4	16.55		680.5		84.9	
	10609.6	2947.1	20.11		721.3		80.6	
+2°	15405.1	4279.2	13.75		716.1	900	80.6	
	13795.6	3832.1	17.47		767.2		85.6	
	11332.1	3147.8	21.12		809.2		80.6	
+4°	16324.9	4534.7	15.16		836.7	1000	80.6	
	14781.2	4105.9	18.71		885.6		85.1	
	12317.8	3421.6	21.97		914.9		80.6	



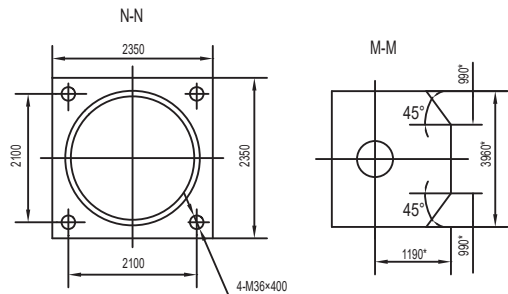
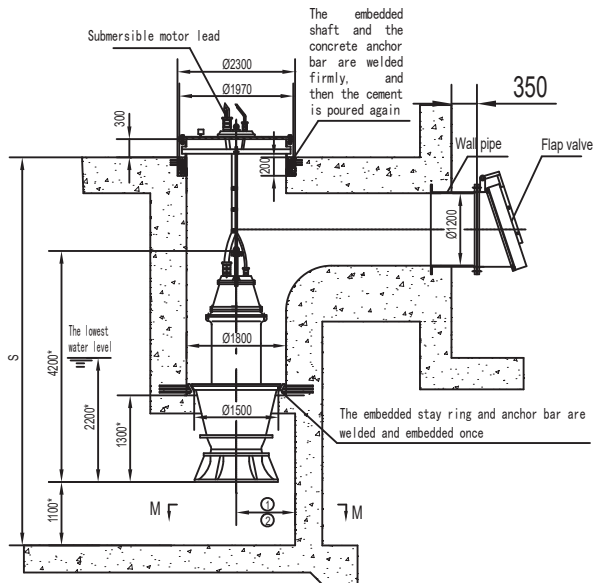
1200HQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	12120.5	3366.8	6.53	490	264.3	400	81.6	900
	10510.9	2919.7	9.97		333.6		85.6	
	9492.8	2636.9	11.56		366.5		81.6	
-2°	13467.2	3740.9	7.19		323.4	450	81.6	
	11496.2	3193.4	10.79		394.4		85.7	
	10314	2865	12.33		424.7		81.6	
0°	14682.6	4078.5	8.02		393.2	560	81.6	
	12810.2	3558.4	11.31		461.2		85.6	
	11365.2	3157	13.21		501.4		81.6	
+2°	15602.4	4334	8.94		465.8	630	81.6	
	13467.2	3740.9	12.33		528.6		85.6	
	12350.5	3430.7	13.77		567.9		81.6	
+4°	16357.7	4543.8	9.76		533.1	710	81.6	
	14452.6	4014.6	12.74		586.1		85.6	
	13204.4	3667.9	14.08		620.9		81.6	

Outline Installation Dimension Diagram 1200ZQ-50,1200ZQ-70,1200ZQ-85,1200ZQ-100,1200ZQ-125,1200ZQ-160,1200HQ-40,1200HQ-50

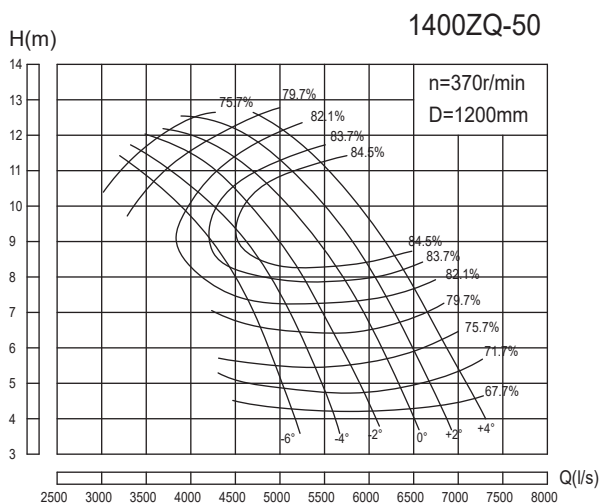


3. Precast concrete wellbore installation



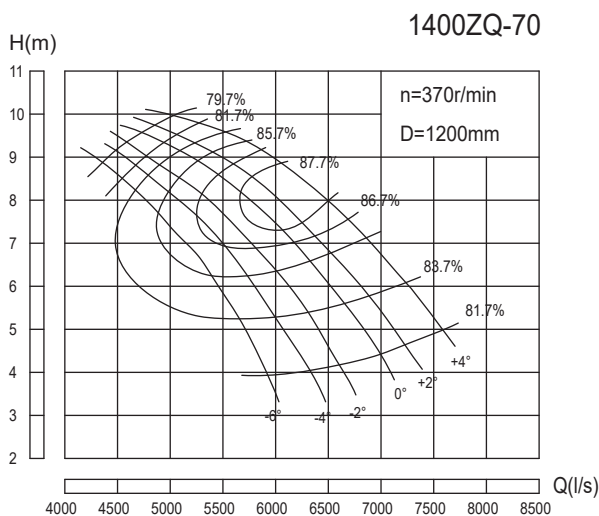
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 1190*
- ②The center distance between two pumps in the same tank shall not be less than 3960*
- ③The size with * is for reference only



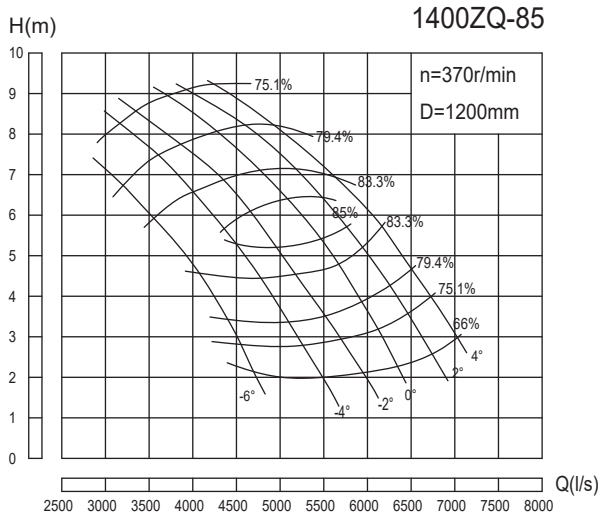
1400ZQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	17974.8	4993	4.86	370	331.5	560	71.8	1200
	15167.5	4213.2	8.89		437.4		84	
	12008.5	3335.7	11.19		477.4		76.7	
-4°	19519.9	5422.2	4.77		353.4	560	71.8	
	16490.9	4580.8	9.16		483.1		85.2	
	12391.2	3442	11.72		516		76.7	
-2°	21072.6	5853.5	4.77		381.5	630	71.8	
	16988	4718.9	9.43		512.4		85.2	
	13002.8	3611.9	12.05		556.7		76.7	
0°	22755.2	6320.9	5		431.8	710	71.8	
	18869.8	5241.6	9.48		570.8		85.4	
	15068.2	4185.6	11.88		611.3		79.8	
+2°	24132.2	6703.4	5.11		468	800	71.8	
	19864.1	5517.8	9.72		617.5		85.2	
	16215.5	4504.3	12.27		679.4		79.8	
+4°	25049.9	6958.3	5.55		527.6	800	71.8	
	20889	5802.5	9.99		667.4		85.2	
	16980.5	4716.8	12.5		724.8		79.8	



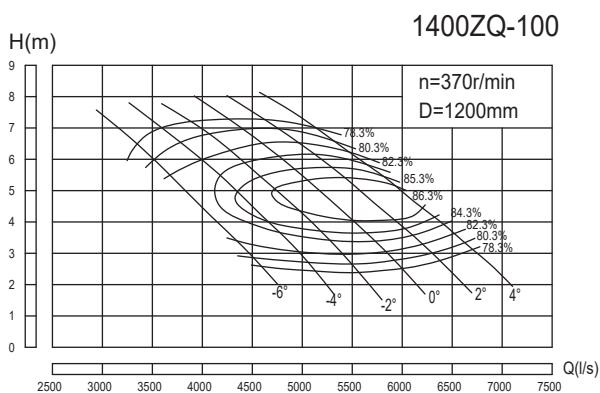
1400ZQ-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	21165.1	5879.2	3.91	370	276	500	81.7	1200
	18813.2	5225.9	6.88		411.6		85.7	
	15579.7	4327.7	8.86		472		79.7	
-4°	22634.6	6287.4	4.01		302.7	560	81.7	
	19283.8	5356.6	7.29		440.8		86.9	
	16167.6	4491	9.25		511.3		79.7	
-2°	23810.8	6614.1	4.17		331.2	560	81.7	
	20283.1	5634.2	7.61		482.9		87.1	
	16520.4	4589	9.38		529.8		79.7	
0°	24986.5	6940.7	4.48		373.4	630	81.7	
	21106.1	5862.8	7.94		517.8		88.2	
	16931.9	4703.3	9.69		561		79.7	
+2°	25868.5	7185.7	4.69		404.7	630	81.7	
	21635.3	6009.8	8.02		533.7		88.6	
	17108.3	4752.3	9.79		572.7		79.7	
+4°	27161.6	7544.9	5.1		462	710	81.7	
	22458.6	6238.5	8.54		595.9		87.7	
	18166.7	5046.3	10		621.1		79.7	



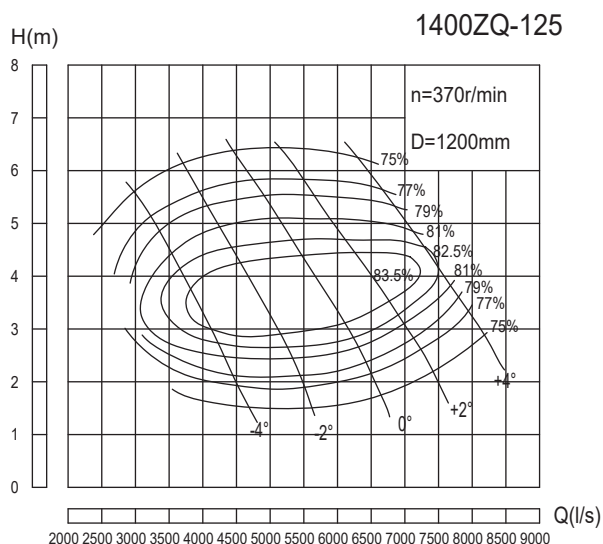
1400ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	15932.5	4425.7	2.91	370	168		75.2	1200
	14580.4	4050.1	4.42		208.6	315	84.2	
	10288.4	2857.9	7.45		277.8		75.2	
-4°	18460.4	5127.9	2.81		188		75.2	
	15756.1	4376.7	5.42		273.1	355	85.2	
	11288.2	3135.6	7.91		323.6		75.2	
-2°	20753.6	5764.9	2.91		218.8		75.2	
	17931.6	4981	5.31		304.5	400	85.2	
	12404.9	3445.8	8.28		372.2		75.2	
0°	22340.9	6205.8	3.18		257.4		75.2	
	19636.6	5454.6	5.51		342	450	86.2	
	13639.7	3788.8	8.59		424.6		75.2	
+2°	23869.4	6630.4	3.65		315.7		75.2	
	20988.7	5830.2	5.89		395.4	560	85.2	
	14874.5	4131.8	8.84		476.5		75.2	
+4°	25398	7055	4.09		376.4		75.2	
	21458.9	5960.8	6.66		462.5	560	84.2	
	16226.6	4507.4	8.83		519.2		75.2	



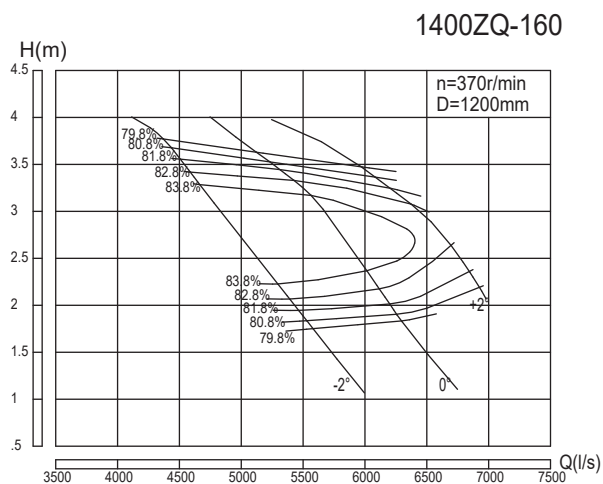
1400ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	15638.8	4344.1	3.33	370	172.4		82.3	1200
	14698.1	4082.8	4.2		200.5	315	83.9	
	13228.2	3674.5	5.52		241.8		82.3	
-4°	17872.6	4964.6	3.05		180.5		82.3	
	16461.7	4572.7	4.27		224.3	315	85.4	
	14374.4	3992.9	5.99		285.1		82.3	
-2°	19460.2	5405.6	2.97		191.4		82.3	
	17931.6	4981	4.39		249.4	355	86	
	15403.3	4278.7	6.28		320.3		82.3	
0°	20988.7	5830.2	3.06		212.7		82.3	
	19401.1	5389.2	4.38		268.3	400	86.3	
	16549.9	4597.2	6.51		356.7		82.3	
+2°	22340.9	6205.8	3.3		244.1		82.3	
	20577.2	5715.9	4.62		298.5	400	86.8	
	17872.6	4964.6	6.53		386.4		82.3	
+4°	23516.6	6532.4	3.63		282.6		82.3	
	22046.8	6124.1	4.64		322.3	450	86.5	
	19695.2	5470.9	6.25		407.6		82.3	



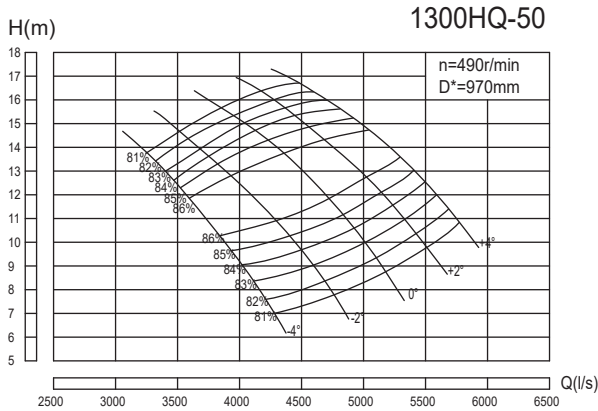
1400ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	15991.2	4442	2.13	370	117.5	250	79	1200
	14580.4	4050.1	3.16		150.4		83.5	
	11640.6	3233.5	5.14		211.7		77	
-2°	19577.5	5438.2	2.11		142.5	315	79	
	18049	5013.6	3.27		191.7		83.9	
	14227.6	3952.1	5.56		280		77	
0°	23105.2	6418.1	2.38		189.7	400	79	
	21282.5	5911.8	3.6		247.1		84.5	
	17108.3	4752.3	5.83		353		77	
+2°	25692.1	7136.7	2.81		249	400	79	
	23634.4	6565.1	3.73		286.3		83.9	
	20170	5603.6	5.53		381.6		78	
+4°	28043.6	7789.9	3.6		348.2	500	79	
	26867.9	7463.3	4.13		365.2		82.8	
	23987.2	6753.1	5.54		460.8		78	



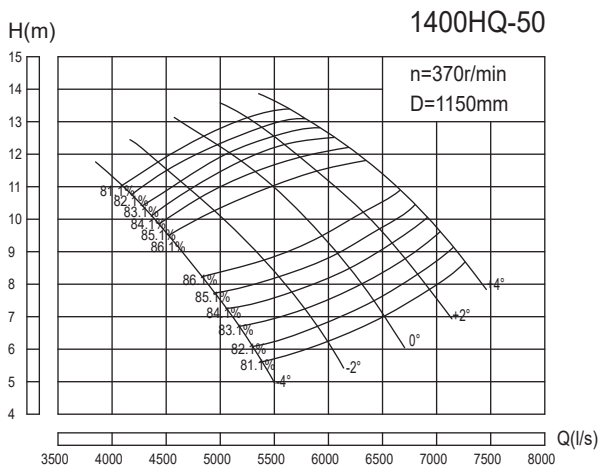
1400ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	19909.1	5530.3	1.83	370	122.9	220	80.8	1200
	18225.4	5062.6	2.59		150.8		85.3	
	15960.6	4433.5	3.68		198.1		80.8	
0°	22501.4	6250.4	1.9		144.2	250	80.8	
	21165.1	5879.2	2.6		177.9		84.3	
	18853.2	5237	3.52		223.8		80.8	
+2°	24934.3	6926.2	2.19		184.2	280	80.8	
	23634.4	6565.1	2.81		218.6		82.8	
	21895.9	6082.2	3.37		248.9		80.8	



1300HQ-50 Performance Parameter Table

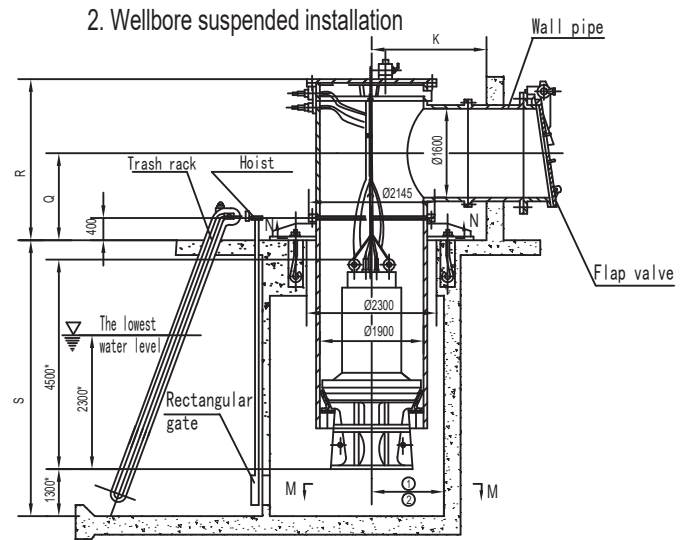
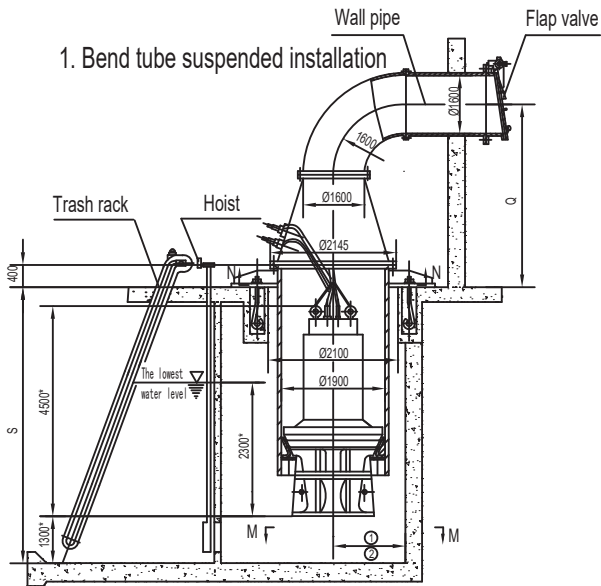
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	15174.4	4215.1	7.58	490	382.2	560	82	970
	13159.4	3655.4	11.58		482.9		86	
	11884.3	3301.2	13.43		530.4		82	
-2°	16860.2	4683.4	8.36		468.4	630	82	
	14392.8	3998	12.54		571.2		86.1	
	12912.5	3586.8	14.33		614.9		82	
0°	18382	5106.1	9.31		568.7	800	82	
	16038	4455	13.13		667.2		86	
	14228.6	3952.4	15.34		725.3		82	
+2°	19533.2	5425.9	10.39		674.4	900	82	
	16860.2	4683.4	14.33		765.6		86	
	15462	4295	16		822.1		82	
+4°	20479	5688.6	11.34		771.7	1000	82	
	18094	5026.1	14.8		848.5		86	
	16531.2	4592	16.36		898.8		82	



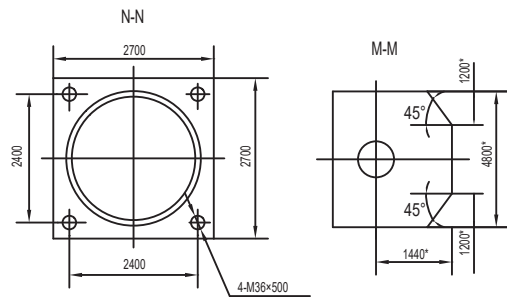
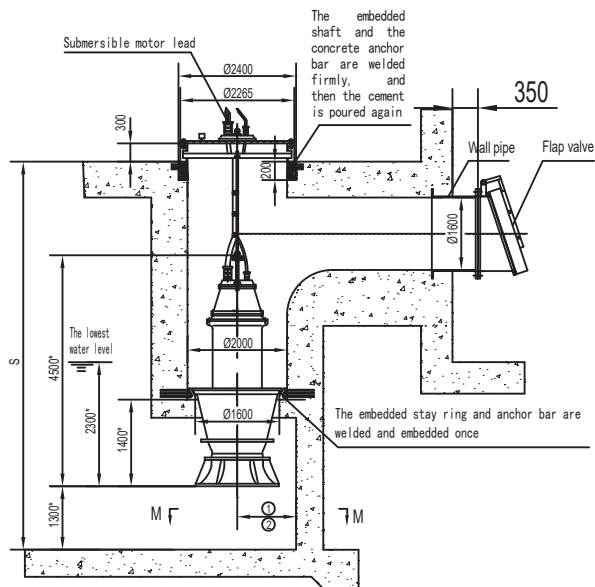
1400HQ-50 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	19093.7	5303.8	6.08	370	384.8	560	82.2	1150
	16558.2	4599.5	9.28		485.8		86.2	
	14954.4	4154	10.76		533.4		82.2	
-2°	21215.2	5893.1	6.7		471.2	710	82.2	
	18110.5	5030.7	10.05		574.7		86.3	
	16247.9	4513.3	11.48		618.3		82.2	
0°	23130	6425	7.46		572	800	82.2	
	20180.5	5605.7	10.52		671.1		86.2	
	17903.5	4973.2	12.29		729.4		82.2	
+2°	24578.6	6827.4	8.32		677.9	900	82.2	
	21215.2	5893.1	11.48		769.9		86.2	
	19455.8	5404.4	12.82		826.9		82.2	
+4°	25768.8	7158	9.09		776.5	1000	82.2	
	22767.8	6324.4	11.86		853.6		86.2	
	20801.5	5778.2	13.11		904.1		82.2	

Outline Installation Dimension Diagram 1400ZQ-50,1400ZQ-70,1400ZQ-85,1400ZQ-100,1400ZQ-125,1400ZQ-160, 1300HQ-50,1400HQ-50

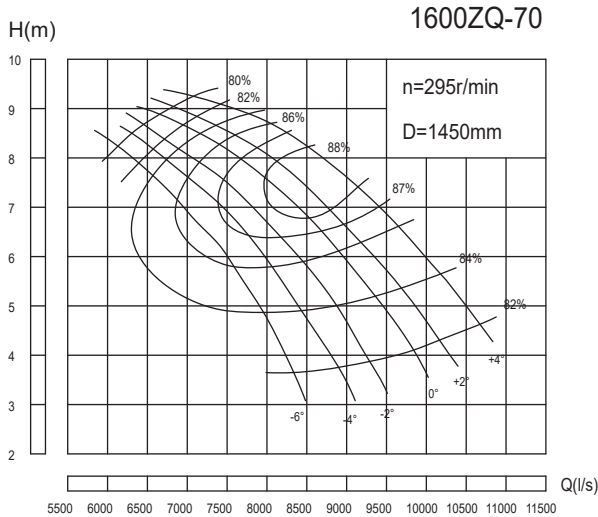


3. Precast concrete wellbore installation



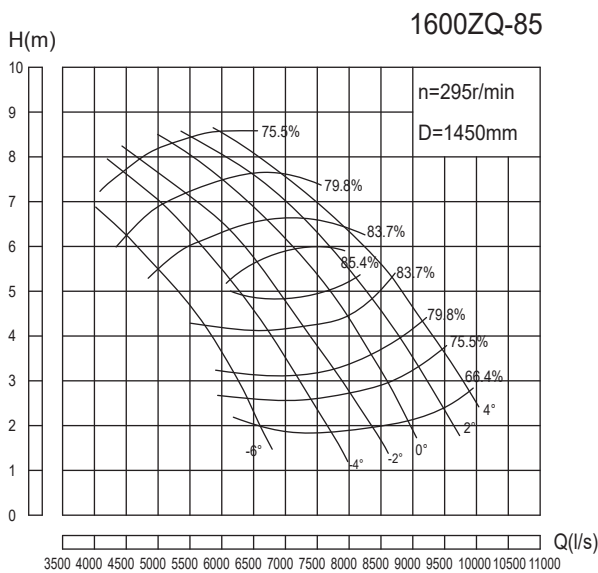
Notice: The dimensions of S, Q, R and K are according to the user's requirements

- ①The recommended distance between the pump center and the back wall is 1440*
- ②The center distance between two pumps in the same tank shall not be less than 4800*
- ③The size with * is for reference only



1600ZQ-70 Performance Parameter Table

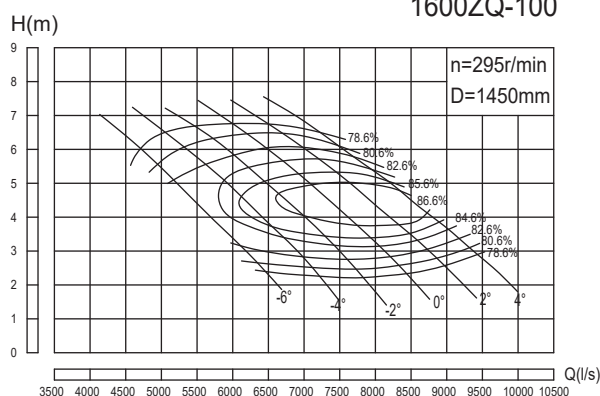
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	29771.3	8269.8	3.63	295	359.1	630	82	1450
	26463.6	7351	6.38		535		86	
	21915	6087.5	8.22		613.6		80	
-4°	31838.8	8844.1	3.72		393.6	710	82	
	27124.9	7534.7	6.77		573.9		87.2	
	22741.9	6317.2	8.59		665.4		80	
-2°	33493	9303.6	3.87		430.7	800	82	
	28531.1	7925.3	7.06		628		87.4	
	23238.4	6455.1	8.7		688.7		80	
0°	35146.8	9763	4.16		485.9	800	82	
	29688.8	8246.9	7.37		673.7		88.5	
	23817.2	6615.9	8.99		729.3		80	
+2°	36387.4	10107.6	4.35		526	800	82	
	30433	8453.6	7.45		695		88.9	
	24065.3	6684.8	9.09		745.1		80	
+4°	38206.8	10613	4.74		601.8	900	82	
	31590.7	8775.2	7.93		775.7		88	
	25553.9	7098.3	9.28		807.8		80	



1600ZQ-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	22411.1	6225.3	2.7	295	218.1	400	75.6	1450
	20509.2	5697	4.1		270.8		84.6	
	14472.4	4020.1	6.91		360.5		75.6	
-4°	25967.2	7213.1	2.61		244.3	450	75.6	
	22163	6156.4	5.03		354.9		85.6	
	15878.2	4410.6	7.34		420.1		75.6	
-2°	29192.4	8109	2.7		284.1	560	75.6	
	25223	7006.4	4.93		395.9		85.6	
	17449.2	4847	7.69		483.7		75.6	
0°	31425.5	8729.3	2.95		334.2	630	75.6	
	27621.4	7672.6	5.12		445		86.6	
	19185.8	5329.4	7.98		551.9		75.6	
+2°	33575.4	9326.5	3.38		409.1	710	75.6	
	29523.2	8200.9	5.46		513.2		85.6	
	20922.8	5811.9	8.21		619.2		75.6	
+4°	35725.7	9923.8	3.8		489.3	710	75.6	
	30184.9	8384.7	6.18		600.9		84.6	
	22824.7	6340.2	8.2		674.6		75.6	

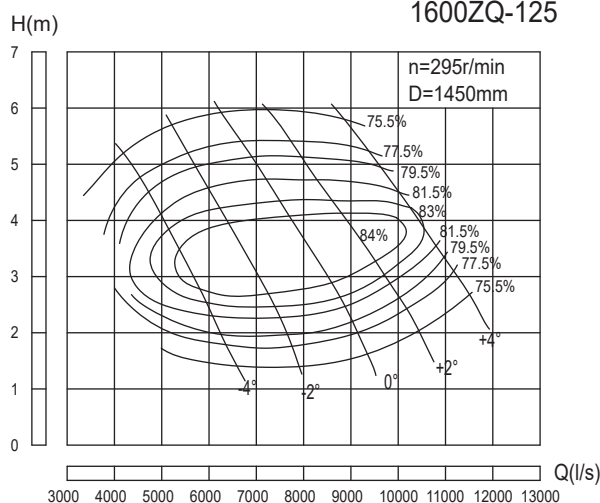
1600ZQ-100



1600ZQ-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	21997.8	6110.5	3.09	295	224	355	82.7	1450
	20674.4	5742.9	3.9		260.6		84.3	
	18607	5168.6	5.12		313.9		82.7	
-4°	25140.2	6983.4	2.83		234.4	400	82.7	
	23155.6	6432.1	3.96		291.2		85.8	
	20219.8	5616.6	5.56		370.4		82.7	
-2°	27373.3	7603.7	2.76		248.9	450	82.7	
	25223	7006.4	4.07		323.8		86.4	
	21667	6018.6	5.83		416.2		82.7	
0°	29523.2	8200.9	2.84		276.3	500	82.7	
	27290.5	7580.7	4.06		348.2		86.7	
	23279.8	6466.6	6.04		463.3		82.7	
+2°	31425.5	8729.3	3.07		317.9	560	82.7	
	28944.4	8040.1	4.28		387.1		87.2	
	25140.2	6983.4	6.06		502		82.7	
+4°	33079.3	9188.7	3.36		366.2	560	82.7	
	31011.8	8614.4	4.3		418.2		86.9	
	27703.8	7695.5	5.8		529.5		82.7	

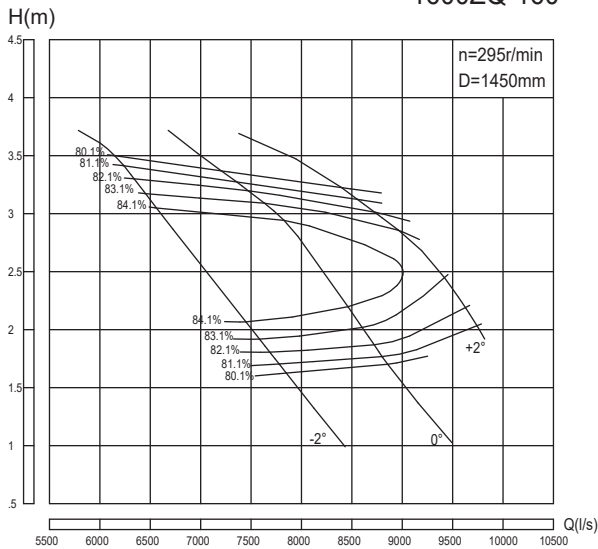
1600ZQ-125



1600ZQ-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	22493.9	6248.3	1.97	295	151.9	315	79.5	1450
	20509.2	5697	2.93		194.9		84	
	16374.2	4548.4	4.77		274.6		77.5	
-2°	27538.6	7649.6	1.96		185	400	79.5	
	25388.3	7052.3	3.04		249.2		84.4	
	20013.1	5559.2	5.16		363.1		77.5	
0°	32500.4	9027.9	2.2		245.1	500	79.5	
	29936.9	8315.8	3.35		321.5		85	
	24065.3	6684.8	5.41		457.8		77.5	
+2°	36139.3	10038.7	2.61		323.3	560	79.5	
	33244.6	9234.6	3.46		371.4		84.4	
	27869.4	7741.5	5.41		530.1		77.5	
+4°	39447	10957.5	3.35		453	710	79.5	
	37793.2	10498.1	3.83		473.5		83.3	
	33741	9372.5	5.23		620.5		77.5	

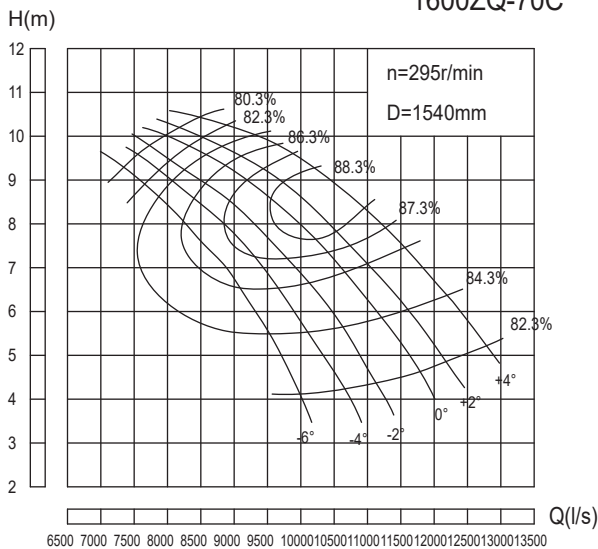
1600ZQ-160



1600ZQ-160 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-2°	28005.1	7779.2	1.7	295	159.8	280	81.2	1450
	25636.3	7121.2	2.41		196.5		85.7	
	22451	6236.4	3.41		256.9		81.2	
0°	31651.2	8792	1.76		186.9		81.2	
	29771.3	8269.8	2.42		231.8	315	84.7	
	26519.8	7366.6	3.27		291		81.2	
+2°	35073.4	9742.6	2.03		238.9		81.2	
	33244.6	9234.6	2.61		284.2	355	83.2	
	30799.4	8555.4	3.12		322.5		81.2	

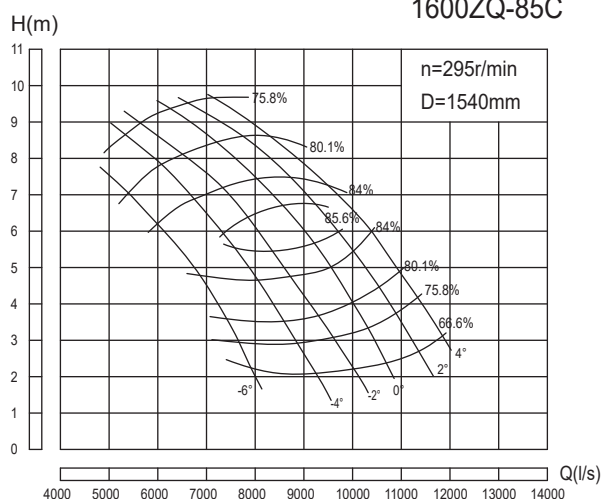
1600ZQ-70C



1600ZQ-70C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	35666.3	9907.3	4.09	295	483	900	82.3	1540
	31703.4	8806.5	7.2		720.8		86.3	
	26254.4	7292.9	9.27		825.9		80.3	
-4°	38143.1	10595.3	4.2		530.4		82.3	
	32495.8	9026.6	7.63		772.2	1000	87.5	
	27245.2	7568.1	9.69		895.9		80.3	
-2°	40124.5	11145.7	4.36		579.2		82.3	
	34180.2	9494.5	7.96		845.4	1000	87.7	
	27839.5	7733.2	9.82		927.7		80.3	
0°	42106	11696.1	4.69		653.9		82.3	
	35567.3	9879.8	8.31		907	1100	88.8	
	28532.9	7925.8	10.14		981.8		80.3	
+2°	43592	12108.9	4.91		708.7		82.3	
	36459	10127.5	8.4		935.6	1100	89.2	
	28830.2	8008.4	10.25		1002.8		80.3	
+4°	45771.8	12714.4	5.34		809.3		82.3	
	37845.7	10512.7	8.94		1044.1	1200	88.3	
	30613.7	8503.8	10.47		1087.7		80.3	

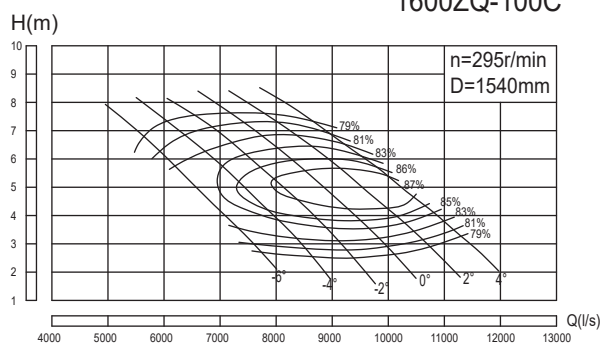
1600ZQ-85C



1600ZQ-85C Performance Parameter Table

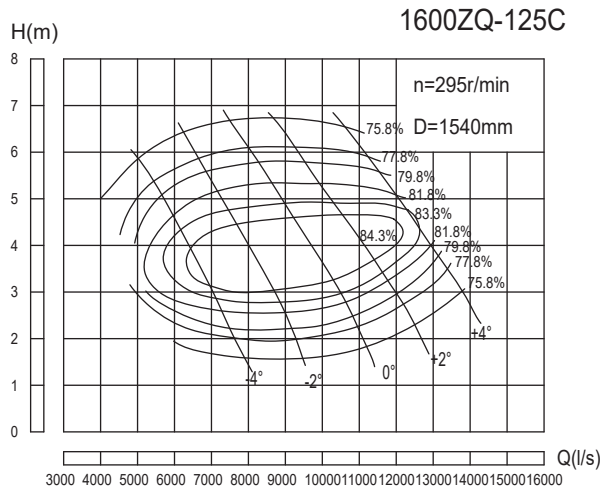
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	26848.8	7458	3.04	295	293	560	75.9	1540
	24570	6825	4.62		364.3	630	84.9	
	17337.6	4816	7.8		485.5		75.9	
-4°	31109	8641.4	2.94		328.4		75.9	
	26551.4	7375.4	5.67		477.6	630	85.9	
	19022	5283.9	8.28		565.5		75.9	
-2°	34972.6	9714.6	3.04		381.7		75.9	
	30217.3	8393.7	5.56		533	710	85.9	
	20904.5	5806.8	8.67		650.7		75.9	
0°	37647.7	10457.7	3.33		450.1		75.9	
	33090.5	9191.8	5.77		598.7	800	86.9	
	22984.9	6384.7	9		742.7		75.9	
$+2^\circ$	40223.5	11173.2	3.82		551.7		75.9	
	35368.9	9824.7	6.16		691.2	900	85.9	
	25065.4	6962.6	9.26		833.3		75.9	
$+4^\circ$	42799.3	11888.7	4.29		659.2		75.9	
	36161.6	10044.9	6.97		809	1000	84.9	
	27344.2	7595.6	9.25		908.1		75.9	

1600ZQ-100C



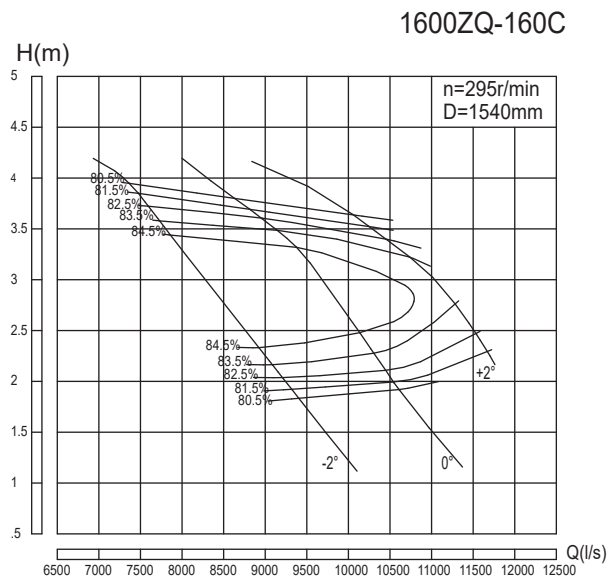
1600ZQ-100C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	26353.4	7320.4	3.49	295	302	450	83	1540
	24768.4	6880.1	4.4		351		84.6	
	22291.6	6192.1	5.78		423		83	
-4°	30118.3	8366.2	3.2		316.4		83	
	27740.5	7705.7	4.47		392.5	560	86.1	
	24223.3	6728.7	6.27		498.6		83	
-2°	32793.1	9109.2	3.11		334.8		83	
	30217.3	8393.7	4.59		435.9	630	86.7	
	25957.1	7210.3	6.58		560.8		83	
0°	35368.9	9824.7	3.21		372.7		83	
	32694.1	9081.7	4.58		469	710	87	
	27889.2	7747	6.82		624.5		83	
$+2^\circ$	37647.7	10457.7	3.46		427.7		83	
	34675.6	9632.1	4.83		521.6	800	87.5	
	30118.3	8366.2	6.84		676.4		83	
$+4^\circ$	39629.2	11008.1	3.8		494.4		83	
	37152.4	10320.1	4.85		563.1	800	87.2	
	33189.5	9219.3	6.54		712.6		83	



1600ZQ-125C Performance Parameter Table

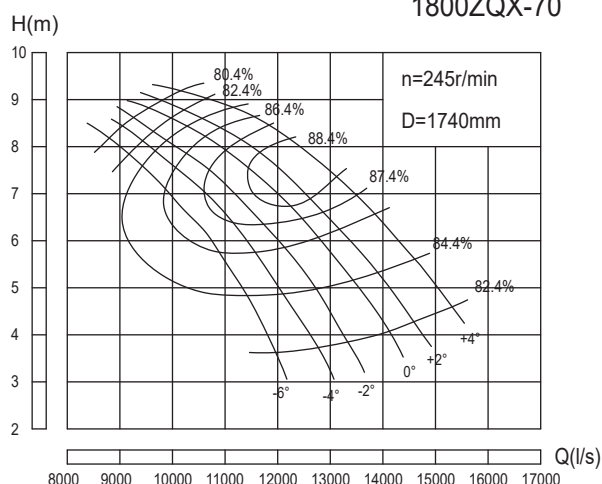
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m ³ /h)	(l/s)			Shaft Power	Motor Power		
-4°	26947.8	7485.5	2.23	295	205.2		79.8	1540
	24570	6825	3.3		262.1	400	84.3	
	19616.4	5449	5.38		369.6		77.8	
-2°	32991.1	9164.2	2.21		249		79.8	
	30415.3	8448.7	3.42		334.7	560	84.7	
	23975.6	6659.9	5.82		488.7		77.8	
0°	38935.8	10815.5	2.49		331.1		79.8	
	35864.3	9962.3	3.77		431.9	710	85.3	
	28830.2	8008.4	6.11		617		77.8	
$+2^\circ$	43295	12026.4	2.94		434.7		79.8	
	39827.2	11063.1	3.9		499.7	800	84.7	
	33387.5	9274.3	6.11		714.5		77.8	
$+4^\circ$	47257.9	13127.2	3.77		608.4		79.8	
	45276.5	12576.8	4.32		637.6	900	83.6	
	40421.9	11228.3	5.9		835.3		77.8	



1600ZQ-160C Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m ³ /h)	(l/s)			Shaft Power	Motor Power		
-2°	33550.2	9319.5	1.92	295	215.1		81.6	1540
	30712.7	8531.3	2.72		264.4	400	84.1	
	26896.3	7471.2	3.85		345.8		81.6	
0°	37918.1	10532.8	1.99		252		81.6	
	35666.3	9907.3	2.73		311.8	450	85.1	
	31770.7	8825.2	3.69		391.5		81.6	
$+2^\circ$	42017.8	11671.6	2.29		321.3		81.6	
	39827.2	11063.1	2.94		381.7	500	83.6	
	36897.8	10249.4	3.52		433.7		81.6	

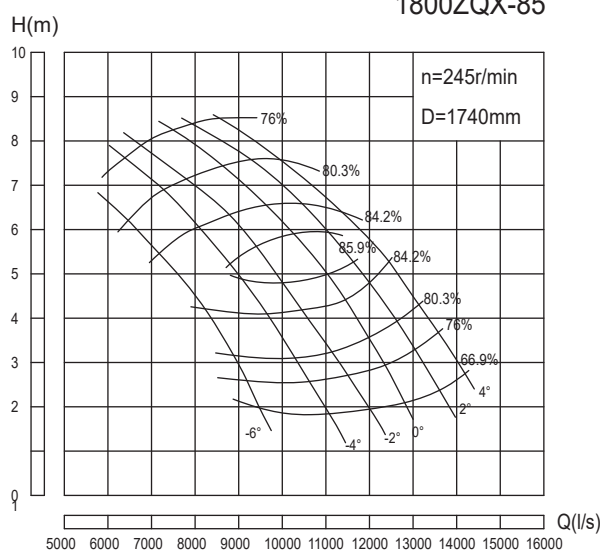
1800ZQX-70



1800ZQX-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	42725.5	11868.2	3.6	245	508.7	1000	82.4	1740
	37978.2	10549.5	6.34		759.4		86.4	
	31450.7	8736.3	8.16		869.8		80.4	
-4°	45692.6	12692.4	3.7		559.1	1000	82.4	
	38927.5	10813.2	6.72		813.7		87.6	
	32637.6	9066	8.53		943.6		80.4	
-2°	48066.1	13351.7	3.84		610.4	1100	82.4	
	40945.3	11373.7	7.01		890.8		87.8	
	33349.7	9263.8	8.64		976.6		80.4	
0°	50440	14011.1	4.13		688.9	1100	82.4	
	42606.7	11835.2	7.32		956		88.9	
	34180.6	9494.6	8.93		1034.5		80.4	
+2°	52220.2	14505.6	4.32		746	1200	82.4	
	43674.8	12131.9	7.4		986.2		89.3	
	34536.6	9593.5	9.03		1057		80.4	
+4°	54830.9	15230.8	4.71		854.1	1200	82.4	
	45336.6	12593.5	7.88		1101.3		88.4	
	36672.8	10186.9	9.22		1146		80.4	

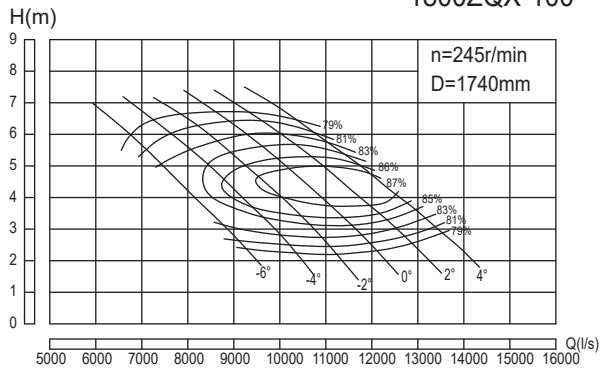
1800ZQX-85



1800ZQX-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	32162.8	8934.1	2.68	245	308.7	560	76.1	1740
	29433.2	8175.9	4.07		383.6		85.1	
	20769.5	5769.3	6.87		510.9		76.1	
-4°	37266.1	10351.7	2.59		345.6	630	76.1	
	31806.7	8835.2	4.99		502.3		86.1	
	22786.9	6329.7	7.29		594.8		76.1	
-2°	41894.6	11637.4	2.68		402	710	76.1	
	36198	10055	4.9		561.4		86.1	
	25042	6956.1	7.64		685.1		76.1	
0°	45099	12527.5	2.93		473.2	900	76.1	
	39639.6	11011	5.08		630		87.1	
	27534.2	7648.4	7.92		780.9		76.1	
+2°	48184.9	13384.7	3.36		579.7	1000	76.1	
	42369.5	11769.3	5.43		728.1		86.1	
	30026.5	8340.7	8.15		876.3		76.1	
+4°	51270.5	14241.8	3.77		692.1	1100	76.1	
	43318.8	12033	6.14		851.7		85.1	
	32756	9098.9	8.14		954.8		76.1	

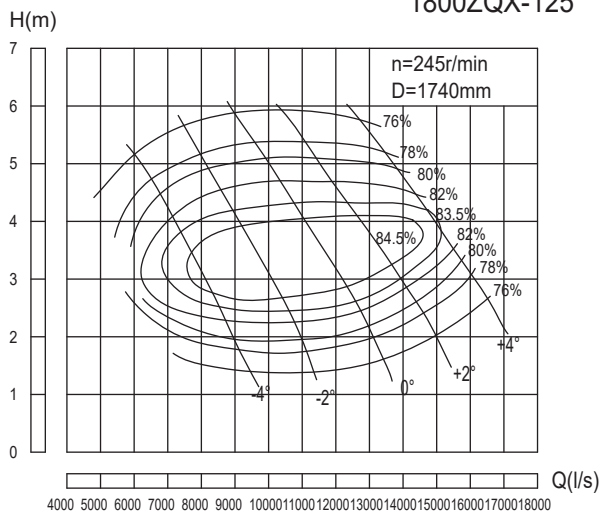
1800ZQX-100



1800ZQX-100 Performance Parameter Table

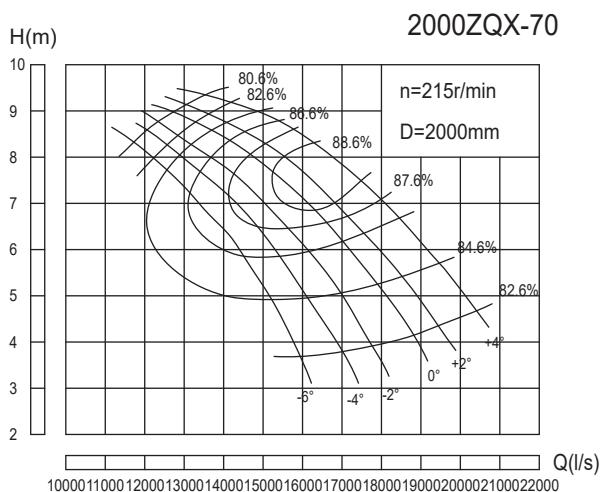
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	31569.5	8769.3	3.07	245	317.8		83.1	1740
	29670.5	8241.8	3.87		369.4	500	84.7	
	26703.4	7417.6	5.09		445.7		83.1	
-4°	36079.2	10022	2.81		332.5		83.1	
	33230.9	9230.8	3.94		413.9	560	86.2	
	29017.8	8060.5	5.52		525.3		83.1	
-2°	39283.6	10912.1	2.74		353		83.1	
	36198	10055	4.04		459.1	630	86.8	
	31094.6	8637.4	5.79		590.4		83.1	
0°	42369.5	11769.3	2.82		391.8		83.1	
	39165.1	10879.2	4.03		493.8	710	87.1	
	33409.1	9280.3	6		657.3		83.1	
+2°	45099	12527.5	3.04		449.6		83.1	
	41538.6	11538.5	4.25		549.2	800	87.6	
	36079.2	10022	6.02		712.2		83.1	
+4°	47472.8	13186.9	3.34		519.9		83.1	
	44505.7	12362.7	4.27		593.2	800	87.3	
	39758.4	11044	5.76		751		83.1	

1800ZQX-125



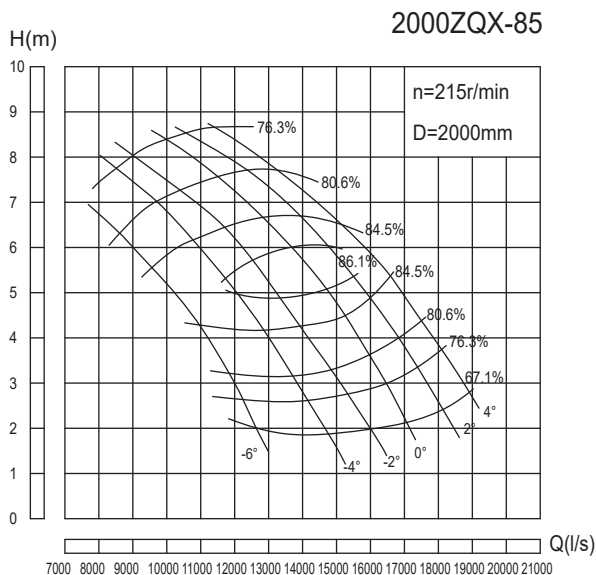
1800ZQX-125 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	32281.6	8967.1	1.96	245	215.5		80	1740
	29433.2	8175.9	2.91		276.2	450	84.5	
	23499	6527.5	4.73		388.3		78	
-2°	39521.2	10978.1	1.95		262.5		80	
	36435.2	10120.9	3.02		353.2	560	84.9	
	28721.2	7978.1	5.13		514.7		78	
0°	46642	12956.1	2.19		347.9		80	
	42962.8	11934.1	3.32		454.6	710	85.5	
	34536.6	9593.5	5.38		649.1		78	
+2°	51864.1	14406.7	2.59		457.6		80	
	47710.1	13252.8	3.44		526.8	800	84.9	
	39995.6	11109.9	5.38		751.7		78	
+4°	56611.4	15725.4	3.32		640.2		80	
	54237.6	15066	3.8		670.2	900	83.8	
	48422.2	13450.6	5.2		879.7		78	



2000ZQX-70 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	56938	15816.1	3.66	215	686.7		82.7	2000
	50611.3	14058.7	6.45		1026	1100	86.7	
	46080	12800	7.6		1086		82.6	
-4°	60891.8	16914.4	3.76		754.4		82.7	
	51876.7	14410.2	6.84		1100	1200	87.9	
	46440.3	12900.1	8.0		1144		86.6	
-2°	64055.2	17793.1	3.91		825.3		82.7	
	54565.6	15157.1	7.13		1203.4	1200	88.1	
	44082.2	12245.3	8.2		1113.5		86.6	
0°	67218.5	18671.8	4.2		930.2		82.7	
	56779.9	15772.2	7.45		1292.3	1300	89.2	
	50760.1	14100	8.0		1251.4		80.7	
+2°	69590.9	19330.8	4.4		1008.9		82.7	
	58203.4	16167.6	7.52		1331.1	1400	89.6	
	54000.0	15000	8.2		1358		87	
+4°	73070.3	20297.3	4.79		1153.3		82.7	
	60417.4	16782.6	8.01		1486.7	1500	88.7	
	48871.8	15200	8.6		1443.6		80.7	

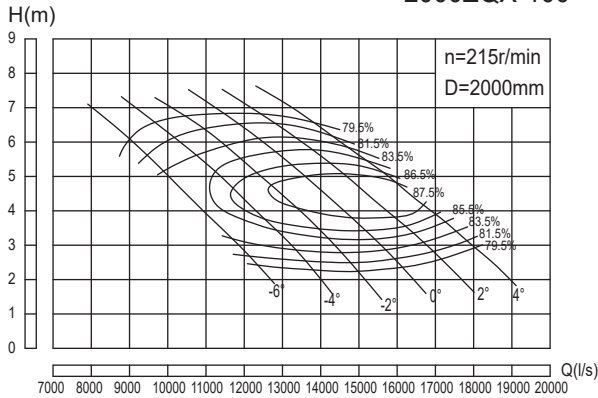


2000ZQX-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	42861.6	11906	2.73	215	417.4		76.4	2000
	39223.8	10895.5	4.14		518.2	800	85.4	
	27678.2	7688.4	6.99		690.1		76.4	
-4°	49662.4	13795.1	2.64		467.6		76.4	
	42387.1	11774.2	5.08		679.1	900	86.4	
	30366.7	8435.2	7.42		803.7		76.4	
-2°	55831	15508.6	2.73		543.6		76.4	
	48238.9	13399.7	4.98		757.7	1000	86.4	
	33372	9270	7.77		924.9		76.4	
0°	60101.3	16694.8	2.98		638.8		76.4	
	52825.7	14673.8	5.17		851.5	1200	87.4	
	36693.4	10192.6	8.06		1054.9		76.4	
+2°	64213.2	17837	3.42		783.3		76.4	
	56463.5	15684.3	5.52		983	1250	86.4	
	40014.7	11115.2	8.3		1184.6		76.4	
+4°	68325.5	18979.3	3.84		935.8		76.4	
	57728.9	16035.8	6.24		1149.4	1300	85.4	
	43652.5	12125.7	8.29		1290.7		76.4	

2000ZQX-100

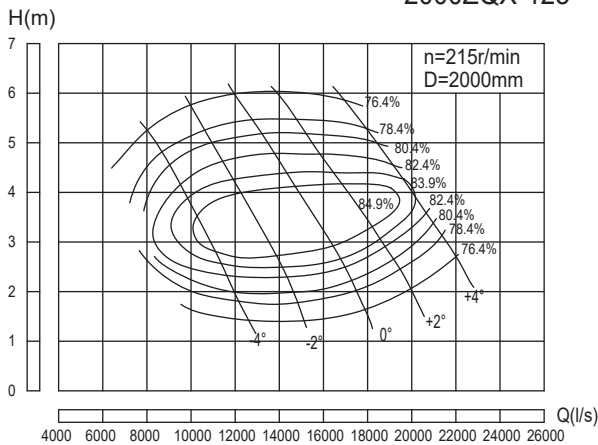
2000ZQX-100 Performance Parameter Table



Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	42070.7	11686.3	3.13	215	429.7	710	83.5	2000
	39540.2	10983.4	3.94		498.9		85.1	
	35586.4	9885.1	5.18		601.6		83.5	
-4°	48080.9	13355.8	2.86		448.8	800	83.5	
	44285	12301.4	4.01		558.8		86.6	
	38670.5	10741.8	5.62		709.2		83.5	
-2°	52351.2	14542	2.78		475	900	83.5	
	48238.9	13399.7	4.11		619.6		87.2	
	41438.2	11510.6	5.89		796.5		83.5	
0°	56463.5	15684.3	2.87		528.8	1000	83.5	
	52193.2	14498.1	4.1		666.4		87.5	
	44522.3	12367.3	6.11		887.8		83.5	
+2°	60101.3	16694.8	3.1		608	1100	83.5	
	55356.5	15376.8	4.33		742.2		88	
	48080.9	13355.8	6.13		961.9		83.5	
+4°	63264.2	17573.4	3.4		702	1100	83.5	
	59310.4	16475.1	4.35		801.7		87.7	
	52984.1	14717.8	5.86		1013.3		83.5	

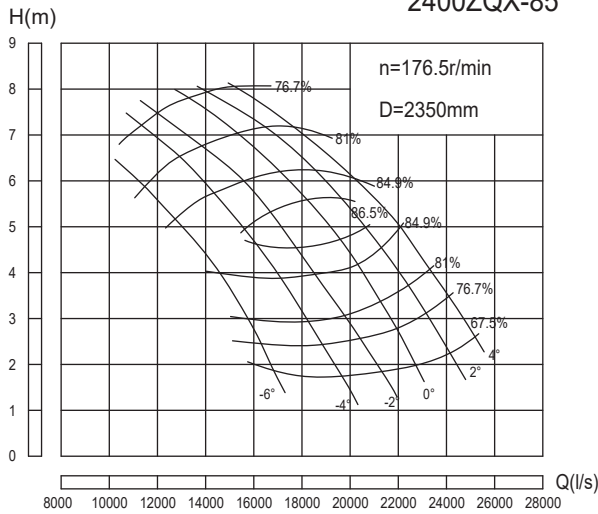
2000ZQX-125

2000ZQX-125 Performance Parameter Table



Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	43019.6	11949.9	1.99	215	290.2	560	80.4	2000
	39223.8	10895.5	2.96		372.6		84.9	
	31316	8698.9	4.82		524.6		78.4	
-2°	52667.6	14629.9	1.98		353.4	800	80.4	
	48555.4	13487.6	3.07		476.2		85.3	
	38274.8	10631.9	5.22		694.4		78.4	
0°	62157.2	17265.9	2.23		469.8	1000	80.4	
	57254.4	15904	3.38		613.9		85.9	
	46024.9	12784.7	5.47		875		78.4	
+2°	69116.4	19199	2.64		618.4	1100	80.4	
	63580.7	17661.3	3.5		710.9		85.3	
	53300.2	14805.6	5.47		1013.4		78.4	
+4°	75442.7	20956.3	3.38		864.3	1200	80.4	
	72279.7	20077.7	3.87		905.3		84.2	
	64529.6	17924.9	5.29		1186.5		78.4	

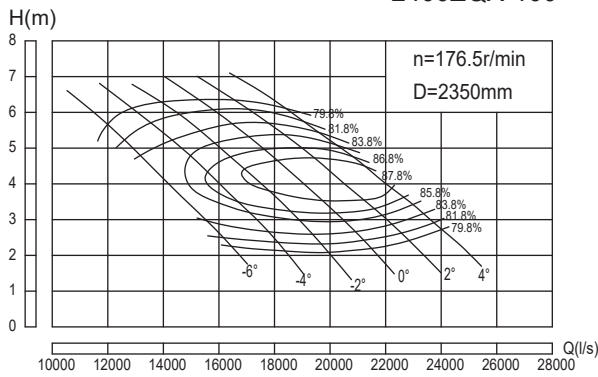
2400ZQX-85



2400ZQX-85 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	57080.5	15855.7	2.54	176.5	514.4	900	76.8	2350
	52236	14510	3.85		638.7		85.8	
	36860	10238.9	6.5		850.1		76.8	
-4°	66137.8	18371.6	2.45		574.9	1100	76.8	
	56448.7	15680.2	4.73		838.2		86.8	
	40441	11233.6	6.9		990.1		76.8	
-2°	74352.2	20653.4	2.54		670.1	1200	76.8	
	64242	17845	4.64		935.8		86.8	
	44442.7	12345.2	7.23		1140.1		76.8	
0°	80039.2	22233.1	2.77		786.7	1350	76.8	
	70350.1	19541.7	4.81		1050.2		87.8	
	48866	13573.9	7.5		1300.4		76.8	
+2°	85515.5	23754.3	3.18		964.9	1400	76.8	
	75194.6	20887.4	5.14		1213.4		86.8	
	53200.4	16200	7.0		1345.6		81.1	
+4°	90991.8	25275.5	3.57		1152.6	1500	76.8	
	76879.8	21355.5	5.81		1418.6		85.8	
	58133.9	17500.3	7.1		1453.3		81.1	

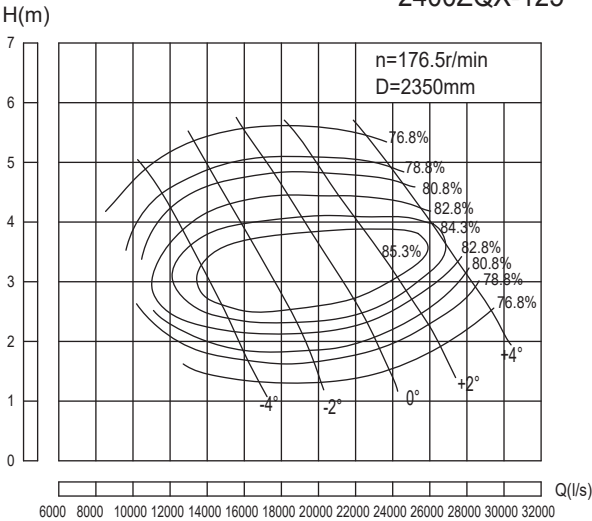
2400ZQX-100



2400ZQX-100 Performance Parameter Table

Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-6°	56027.5	15563.2	2.91	176.5	530.2	800	83.8	2350
	52657.2	14627	3.66		615		85.4	
	47391.5	13164.3	4.82		742.8		83.8	
-4°	64031.4	17786.5	2.66		553.9	900	83.8	
	58976.3	16382.3	3.73		689.8		86.9	
	51498.7	14305.2	5.23		875.8		83.8	
-2°	69718.3	19366.2	2.59		587.2	1000	83.8	
	64242	17845	3.83		766.3		87.5	
	55184.8	15329.1	5.48		983.4		83.8	
0°	75194.6	20887.4	2.67		652.9	1150	83.8	
	69507.7	19307.7	3.82		824.1		87.8	
	59292.4	16470.1	5.68		1095.1		83.8	
+2°	80039.2	22233.1	2.88		749.6	1200	83.8	
	73720.4	20477.9	4.03		916.9		88.3	
	64031.4	17786.5	5.7		1186.8		83.8	
+4°	84251.9	23403.3	3.16		865.7	1300	83.8	
	78986.2	21940.6	4.05		990.6		88	
	70560.7	19600.2	5.46		1252.8		83.8	

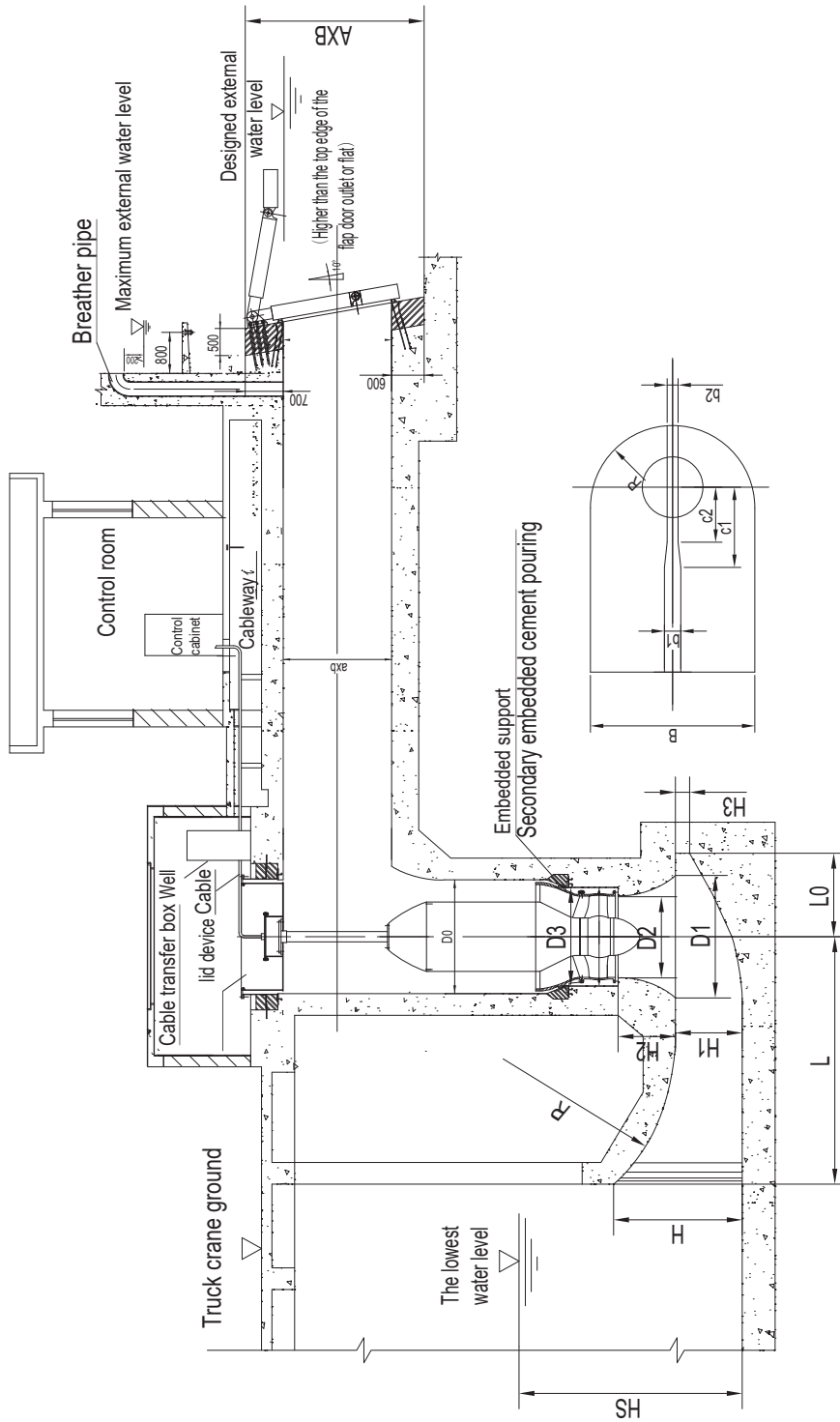
2400ZQX-125 2400ZQX-125 Performance Parameter Table



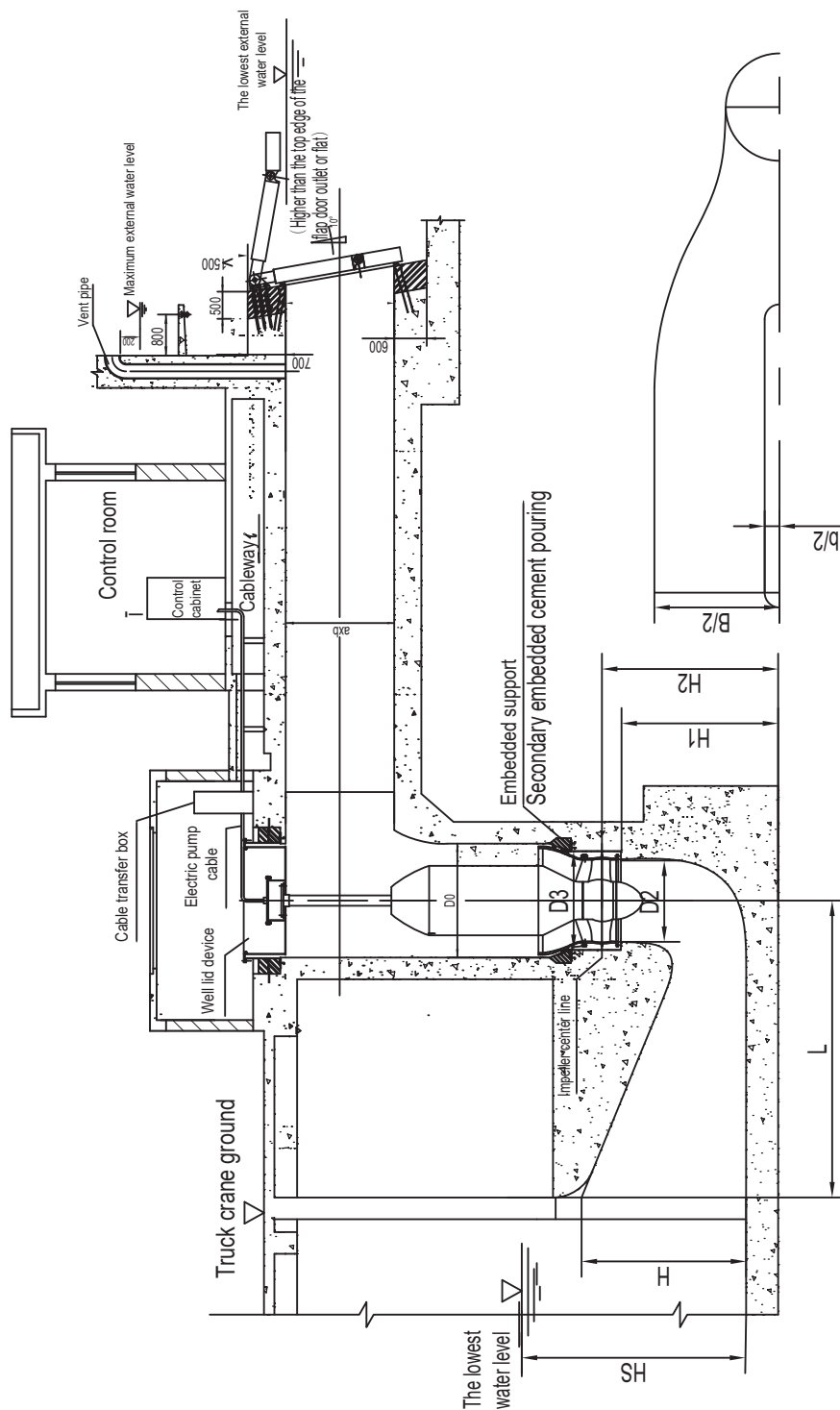
Blade Angle	Capacity		Head (m)	Rotation Speed (r/min)	Power (kW)		Efficiency (%)	Impeller Diameter (mm)
	(m³/h)	(l/s)			Shaft Power	Motor Power		
-4°	57291.1	15914.2	1.85	176.5	357.4	710	80.8	2350
	52236	14510	2.75		458.9		85.3	
	41704.6	11584.6	4.48		646.1		78.8	
-2°	70139.5	19483.2	1.85		437.6	900	80.8	
	64663.2	17962	2.85		586		85.7	
	50972.4	14159	4.85		854.9		78.8	
0°	82777.3	22993.7	2.07		577.9	1150	80.8	
	76248	21180	3.15		758.4		86.3	
	61293.2	17025.9	5.09		1078.9		78.8	
+2°	92045.2	25568.1	2.45		760.5	1300	80.8	
	84673.1	23520.3	3.25		875		85.7	
	70982.3	19717.3	5.09		1249.4		78.8	
+4°	100470.2	27908.4	3.15		1067.3	1500	80.8	
	96257.5	26738.2	3.6		1116.2		84.6	
	85936.7	23871.3	4.92		1462.1		78.8	

Installation Dimensions of Large Scale Axial Flow (Mixed-Flow) Submersible Pump with Dustpan Type Flow Passage and Elbow Type Flow Passage Prefabricated Shaft Type

Installation dimension diagram of 1200-2400 caliber large-scale submersible electric pump dustpan type inlet flow passage cement Wellbore



Installation dimension diagram of 1200-2400 caliber large submersible pump elbow inlet channel cement wellbore



1200-2400 caliber large submersible pump elbow inlet channel cement wellbore dimension table

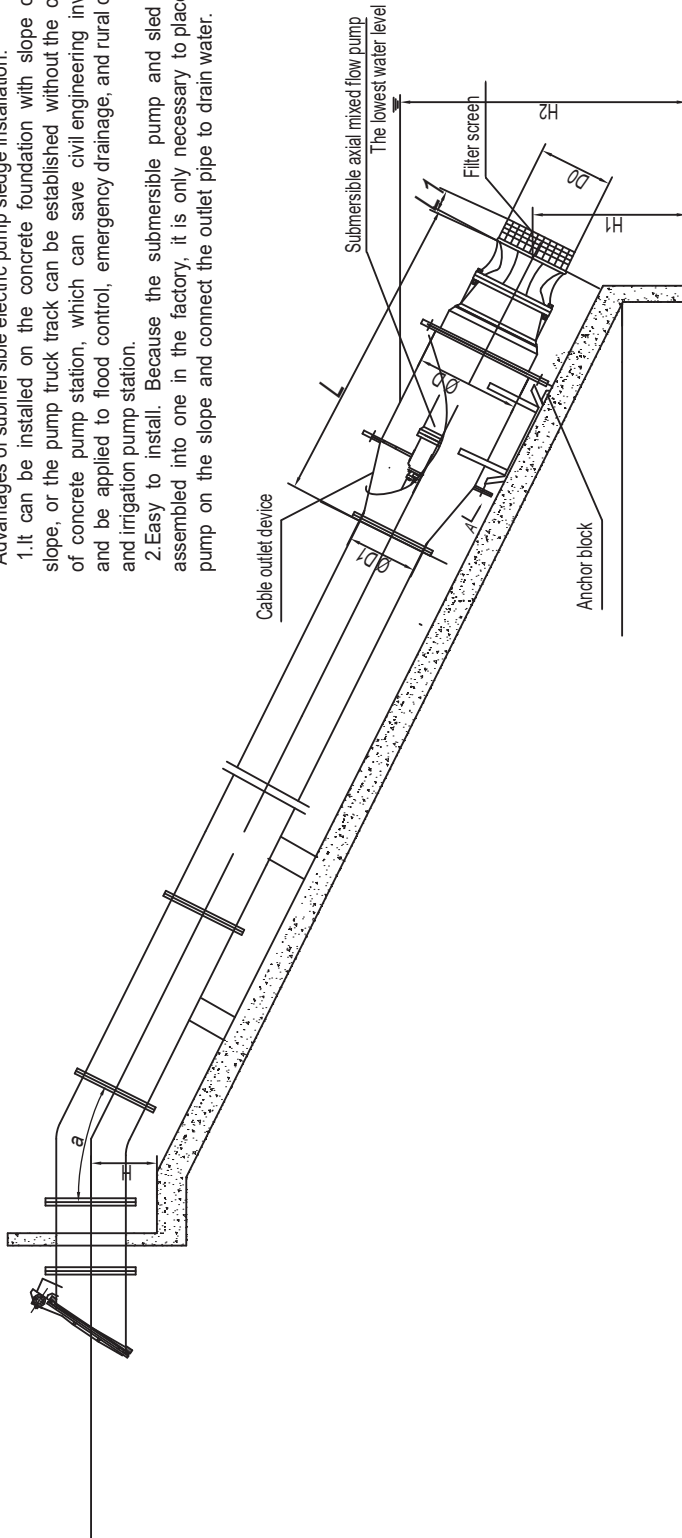
No.	Model	$n(r/min)$	HS	$\Phi D0$	$\Phi D2$	$\Phi D3$	H	H1	H2	B	L	b1	axb
1	1200ZQ	490	3700	1700	955	1250	1940	1533	1700	2260	3500	300	1400x1000
2	1400ZQ	370	4200	1800	1180	1600	2400	1896	2103	2795	4330	300	1600x2200
3	1600ZQ	295	4700	2100	1427	1700	2900	2292	2541	3378	5232	400	1800x2400
4	1600ZQC	295	5000	2300	1540	1900	3080	2434	2699	3588	5557	400	1800x2400
1	1800ZQX	245	5500	2400	1712	2000	3480	2750	3049	4054	6278	400	1800x2400
2	2000ZQX	215	5800	2800	1968	2400	4000	3161	3505	4659	7216	400	2400x3000
3	2400ZQX	176.5	6500	3200	2350	2750	4700	3714	4119	5475	8479	400	2800x3400
5	1200HQ	490	3370	1750	886	1500	1800	1422	1577	2096	3247	300	1400x1000
6	1300HQ	490	3540	1800	969	1600	1940	1533	1700	2260	3500	300	1400x1000
7	1400HQ	370	3760	2000	1150	1700	2300	1817	2015	2679	4149	300	1600x2200

Please contact our technical department for the cross section of elbow type runner of the runner

Application of Sledge Submersible Pump

Installation dimension table of 300-900 caliber submersible axial mixed flow pump

- Advantages of submersible electric pump sledge installation:
1. It can be installed on the concrete foundation with slope or natural slope, or the pump truck track can be established without the construction of concrete pump station, which can save civil engineering investment and be applied to flood control, emergency drainage, and rural drainage and irrigation pump station.
 2. Easy to install. Because the submersible pump and sled have been assembled into one in the factory, it is only necessary to place the pump on the slope and connect the outlet pipe to drain water.

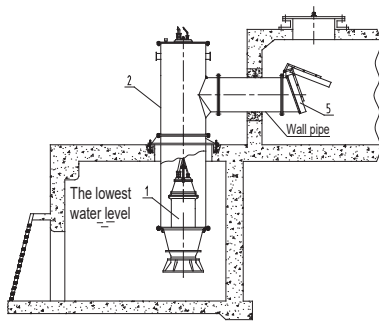


The performance parameters of sledge pump can be determined according to the maximum specification motor of the model with reference to the relevant parameters of submersible shaft mixed flow pump L. after the user selects the model again, he can consult the technical department of our company to confirm the dimension

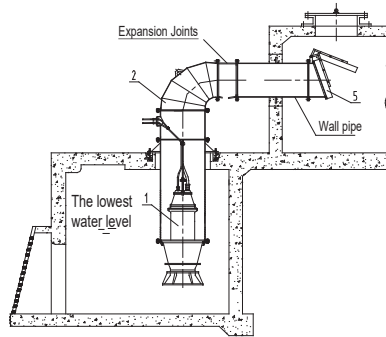
Installation dimension diagram of 300-900 ZQ, HQ sledge type submersible axial mixed flow pump												
No.	Electric pump model	H	H1	H2	D	D0	D1	L	L1	a		
1	300ZQ	320	300	1050	450	300	300	1900	150	30		
2	350ZQ	360	810	1170	500	450	400	2100	170			
3	500ZQ	450	890	1340	700	670	500	2800	190			
4	600ZQ	620	940	1560	850	850	600	3200	220			
5	700ZQ	700	1020	1720	950	850	800	3500	220			
6	700ZQC	800	1120	1920	1050	980	800	3500	220			
7	800ZQ	850	1200	2050	1150	1020	1000	3600	250			
8	900ZQ	900	1240	2140	1350	1050	1200	3800	250			
9	400HQ	360	810	1170	600	450	400	2500	170			
10	500HQ	450	890	1340	800	650	600	3000	190			
11	600HQ	620	940	1560	900	750	600	3100	220			
12	700HQ	700	1020	1720	1100	850	800	3500	220			

Application of Other Installation Methods in Practical Engineering

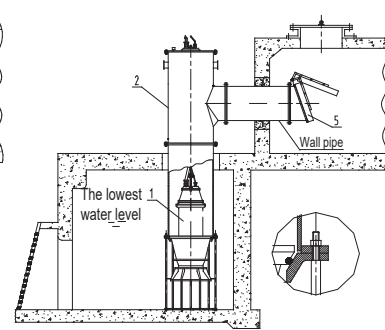
Installation structural type of submersible pump (all have been implemented in the project)



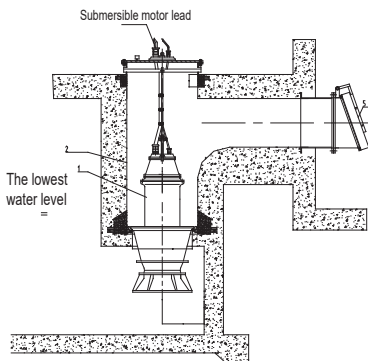
A Wellbore suspension type



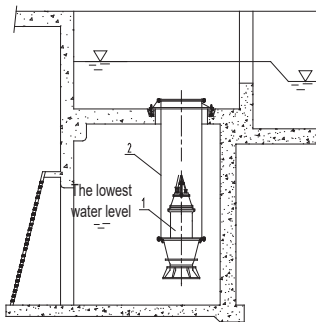
B Elbow pipe suspended type



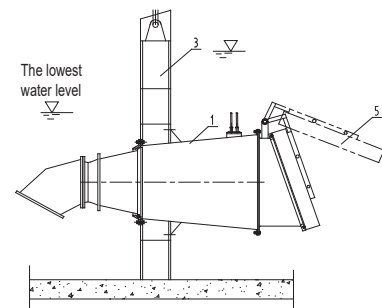
C Wellbore floor type



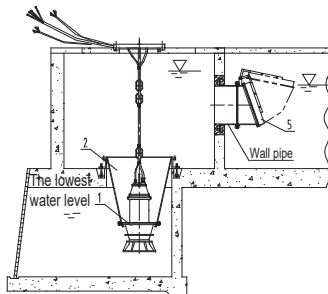
D Cement wellbore type



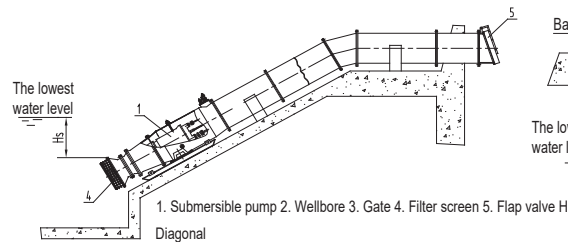
E Open type I



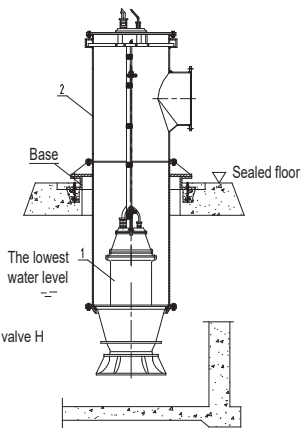
F Gate installation type



G Open type II
(for low head pump installation)



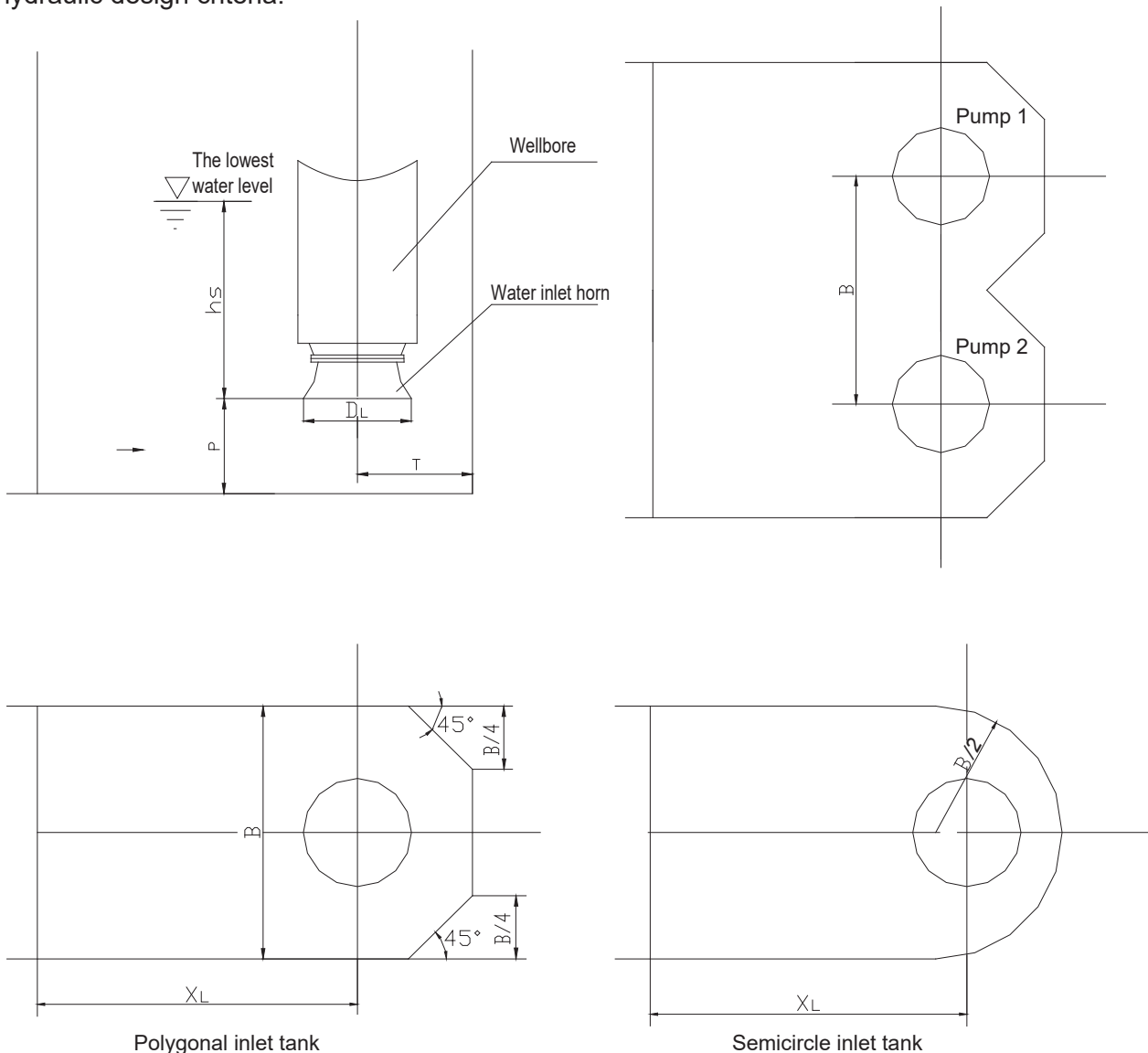
I Wellbore suspension dry installation



Description: The first four installation types in the figure are shown in the figure, It is recommended to use the installation form shown in figure A, D, E and I. The overall dimensions of other installation types are provided in consultation.

Reference for Hydraulic Design of Open Passage

The open intake (intake tank) has simple structure and convenient construction, which is widely used in small and medium-sized pumping stations. At home and abroad, great attention has been paid to the hydraulic design of this channel, and a lot of experimental research work has been done. Based on the experimental results, many researchers have put forward the design criteria of open inlet tank in the form of empirical coefficient. However, there are many differences in the criteria proposed by different countries, so there is no unified or optimal hydraulic design criteria.



Geometry of water inlet	Japanese mechanical Society	British Institute of hydromechanics Engineering	American Institute of Hydraulic Research	Field test of Liyang Shuangqiao station	Suggested value	Use conditions
Pool width B/D_L	2.0~2.5	2~3	2.6~2.8	2.0~2.5	2.0~2.5	Small pump takes small value, large pump takes large value.
Pump spacing B/D_L	2.0~2.5	2~3	2.6~2.8	2.0~2.5	2.0~2.5	Small pump takes small value, large pump takes large value.
Suspended height P/D_L	0.5~0.75	0.5~0.75	0.52~0.59	0.5~0.7	0.5~0.7	Small pump takes small value, large pump takes large value.
Rear wall distance T/D_L	0.8~1.0	0.75	1.2~1.4		0.5~0.75	
Pool length X_L/D_L		4.0		8.0	5~8	

The hydraulic design of open inlet (inlet pool) generally takes the inlet diameter D_L of horn tube as the basic parameter. The main reason is that the water flow into the pump first passes through the cylindrical surface between the orifice of horn tube and the bottom plate of flow channel, and then enters the pump through the orifice of horn tube. It is natural that the inlet diameter of the horn tube is taken as the basic parameter to determine the size of the inlet passage. But the problem is that the horn tube is not standardized, the inlet diameter of the horn tube is a variable, and the ratio of the inlet diameter of the horn tube to the diameter of the pump impeller is not necessarily the same. If D_L is taken as the basic parameter again, it will cause confusion to the hydraulic design criteria, which is not suitable.

If the horn tube can be standardized, the basic parameter of the hydraulic design of the inlet passage is the diameter of the horn mouth or the diameter of the impeller. Otherwise, the diameter of the pump impeller should be taken as the basic parameter.

The company's sample preparation, the selection of various parameters are based on the impeller diameter D_0 as the basic parameter.

According to the data "optimal hydraulic design of inlet channel of pumping station", the recommended design of open inlet channel is as follows:

(1) Suspended height P

The recommended suspended height is $p = (0.68 \sim 1.2) D_0$, the smaller inlet diameter of the larger horn tube ($1.67D_0$) and the larger inlet diameter of the smaller horn tube ($1.46D_0$); For larger or smaller inlet diameter of horn tube, the value of suspension height can still be in this range.

(2) Back wall distance T

The determination of the back wall distance is not affected by the inlet diameter of the horn tube. When the horn tube absorbs water, part of the water flow must enter the pump from the back of the horn tube, so a certain back wall distance is necessary; However, too large back wall distance increases the degree of freedom of the flow in the back wall space, and increases the possibility of vortex band, so the submergence depth should be increased accordingly. According to the results of optimization calculation, the back wall distance is $(0.8 \sim 1.0)D_0$, which is enough to meet the requirements.

(3) Tank width B, pump spacing B

In order to make part of the water flow smoothly into the pump from both sides and the rear of the horn tube, a certain pool width is needed; Too large pool width will increase civil engineering investment in vain. The inlet diameter of the horn tube affects the determination of the optimal pool width to a certain extent. According to the results of the optimization calculation, the recommended pool width is $(3.5\sim 4.5)D_0$, the smaller the inlet diameter of the larger horn tube, and the larger the inlet diameter of the light horn tube.

(4) Pool length XL

In the case of positive water inflow, it is necessary to have enough pool length in order to make the water flow generally uniform before reaching the horn tube. The pool length can be determined according to the layout requirements of the upper structure of the pump house, generally $(7.0\sim 8.0)D_0$; In the case of lateral inflow, the pool length should be appropriately increased or necessary rectification measures should be taken. The length of the tank has nothing to do with the inlet diameter of the horn tube.

(5) Flat shape

The results show that the plane shape of the intake tank has little effect on the working state of the pump; According to the test data, the plane shape has a certain influence on the hydraulic loss of the intake tank, the heart shape has the smallest hydraulic loss, and the rectangle shape has the largest hydraulic loss.

Weight Table of ZQ and HQ Series Axial Flow (Mixed-Flow) Submersible Pump

No.	Model	Maximum Pump Weight (Kg)	Maximum Axial Force (N)
1	300ZQ-50	500	4900
2	300ZQ-70	500	4400
3	300ZQ-85	500	3500
4	300ZQ-100	500	2500
5	350ZQ-50	600	10100
6	350ZQ-50D	600	4650
7	350ZQ-70	600	8950
8	350ZQ-70D	550	4100
9	350ZQ-85	550	7200
10	350ZQ-85D	400	3300
11	350ZQ-100	550	5150
12	350ZQ-100D	400	2400
13	350ZQ-125	550	4800
14	350ZQ-125D	400	2200
15	350ZQ-160	450	3350
16	500ZQ-50	990	23100
17	500ZQ-50D	750	12900
18	500ZQ-70	990	20450
19	500ZQ-70D	700	11400
20	500ZQ-85	860	16300
21	500ZQ-85D	700	9100
22	500ZQ-100	830	11700
23	500ZQ-100D	700	6550
24	500ZQ-125	830	10950
25	500ZQ-125D	700	6100
26	500ZQ-160	650	7600
27	500ZQ-160D	550	4250
28	600ZQ-50	2100	28900
29	600ZQ-70	1900	25600
30	600ZQ-85	1900	20400
31	600Q-100	1800	14650
32	600ZQ-125	1850	13700

No.	Model	Maximum Pump Weight (Kg)	Maximum Axial Force (N)
33	600ZQ-160	1700	9500
34	700ZQ-50	2500	41000
35	700ZQ-50D	2000	26500
36	700ZQ-70	2200	36200
37	700ZQ-70D	1900	23300
38	700ZQ-85	2200	28900
39	700ZQ-85D	1900	18600
40	700ZQ-100	2000	20700
41	700ZQ-100D	1800	14000
42	700ZQ-125	2200	19400
43	700ZQ-125D	1600	12500
44	700ZQ-160	1900	13400
45	700ZQ-160D	1500	8800
46	700ZQ-50C	3000	56500
47	700ZQ-70C	2900	49900
48	700ZQ-85C	2750	39900
49	700ZQ-100C	2500	28700
50	700ZQ-125C	2600	26700
51	700ZQ-160C	2500	18600
52	800ZQ-50	5500	64000
53	800ZQ-70	4900	56800
54	800ZQ-85	4200	45500
55	800ZQ-100	4000	32400
56	800ZQ-125	3800	30500
57	800ZQ-160	3500	21100
58	900ZQ-50	6000	72900
59	900ZQ-70	5500	64400
60	900ZQ-85	5500	51300
58	900ZQ-100	5000	36900
59	900ZQ-125	4000	34400
60	900ZQ-160	3600	23900

No.	Model	Maximum Pump Weight (Kg)	Maximum Axial Force (N)
61	1000ZQ-50	6800	91300
62	1000ZQ-50	6800	91300
63	1000ZQ-70	6500	80700
64	1000ZQ-85	6000	64500
65	1000ZQ-100	6000	46100
66	1000ZQ-125	5500	43200
67	1000ZQ-160	5000	29900
68	1200ZQ-50	12000	117000
69	1200ZQ-70	10100	101500
70	1200ZQ-85	9800	72500
71	1200ZQ-100	9500	58700
72	1200ZQ-125	8800	51000
73	1200ZQ-160	8000	37500
74	1400ZQ-50	18000	155750
75	1400ZQ-70	16300	135000
76	1400ZQ-85	14000	96500
77	1400ZQ-100	13200	78200
78	1400ZQ-125	12700	67700
79	1600ZQ-70	15000	187100
80	1600ZQ-85	14000	130500
81	1600ZQ-100	15800	106000
82	1600ZQ-125	15000	91700
83	1600ZQ-70C	18500	231700
84	1600ZQ-85C	17900	165650
85	1600ZQ-100C	17000	134200
86	1600ZQ-125C	16500	116350
87	1800ZQX-70	20000	260150
88	1800ZQX-85	19000	185850
89	1800ZQX-100	18000	150500
90	1800ZQX-125	17000	130600
91	2000ZQX-70	23000	350000
92	2000ZQX-85	22000	250000
93	2000ZQX-100	21000	201900
94	2000ZQX-125	20000	175300

No.	Model	Maximum Pump Weight (Kg)	Maximum Axial Force (N)
95	2400ZQX-85	25000	320000
96	2400ZQX-100	23500	185150
97	2400ZQX-125	22000	160650
98	350HQ-40	500	6800
99	350HQ-50	600	9700
100	400HQ-40	1000	20000
101	400HQ-50	800	13900
102	500HQ-40	1700	31600
103	500HQ-40D	1400	17800
104	500HQ-50	1600	22000
105	500HQ-50D	1400	12400
106	600HQ-40	2000	45700
107	600HQ-40D	1700	25700
108	600HQ-50	1900	31800
109	600HQ-50D	1500	17900
110	700HQ-40	3900	57100
111	700HQ-40D	2800	36800
112	700HQ-50	3200	39700
113	700HQ-50D	2600	25600
114	800HQ-40	4300	80800
115	800HQ-40D	3700	52100
116	800HQ-50	4400	56200
117	800HQ-50D	3500	36200
118	900HQ-40	4800	96200
119	900HQ-40D	4400	66300
120	900HQ-50	4600	66900
121	900HQ-50D	4200	46100
122	1000HQ-40	7300	101000
123	1000HQ-50	6500	88000
124	1000HQ-35C	7800	113450
125	1000HQ-50C	7300	82150
126	1200HQ-40	12000	142450
127	1200HQ-50	12600	103250
128	1400HQ-50	13000	156200

Electric Control Part of Submersible Pump

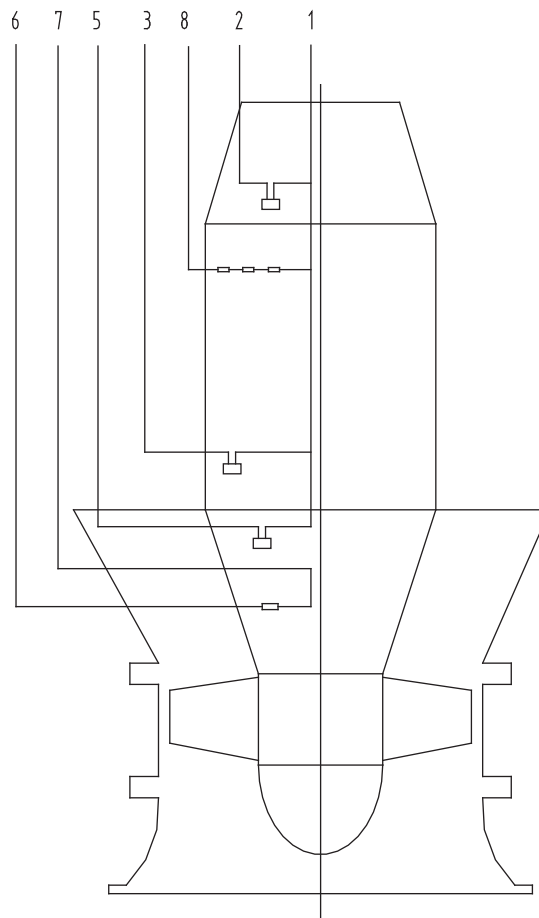
Arrangement and function table of internal sensors in low pressure submersible axial mixed flow pump

Control cable core No.	1-8	1-2	1-3	1-5	6-7
Sensor name	Winding temperature measuring element JW6A (120 °C)	Water inlet protection electrode of junction box	Motor water inlet protection electrode	Water inlet protection electrode of oil chamber	Bearing temperature sensor Pt100
Normal state resistance value	0	$\geq 120\text{k}\Omega$	$\geq 120\text{k}\Omega$	$\geq 30\text{k}\Omega$	About 100 Ω at 0 °C
Fault state resistance value	The stator coil operates when the temperature is higher than 120 °C	Leakage of junction box, resistance $< 120\text{k}\Omega$	Motor leakage, resistance $< 120\text{k}\Omega$	Water into the oil up to 10%, Oil water mixture resistance $< 30\text{k}\Omega$	About 136 Ω at 95 °C

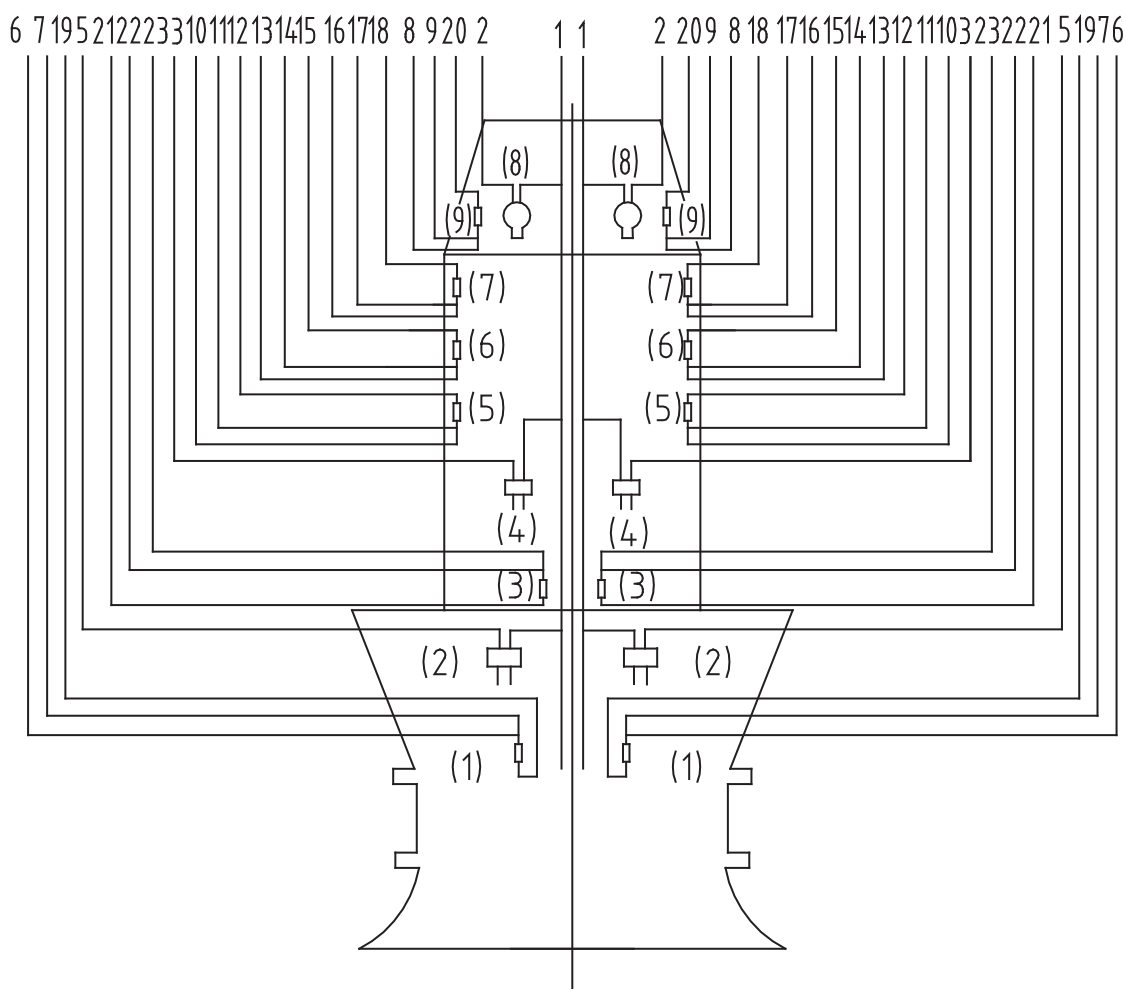
Description:

(a)The sensor listed in the table above is the basic configuration of the low-voltage pump. It may be changed according to the requirements of the user, but it shall be indicated in the contract.

(b)350ZQ, 400HQ and below only have winding overheating, junction box water inlet, motor water inlet protection.



Arrangement and function table of sensors in high voltage submersible axial-flow pump and mixed flow pump



Monitoring and protection sensor(one for use and one for standby)

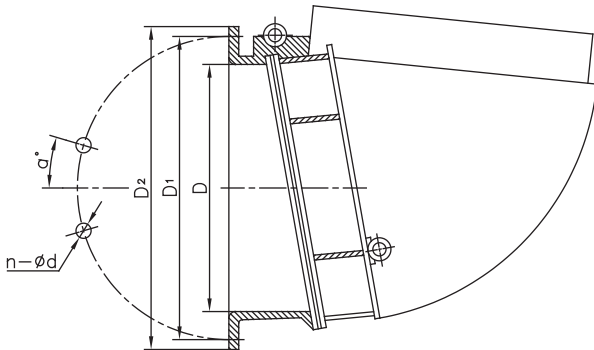
Sensor No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Cable label	6,7,19	1,5	21,22,23	1,3	10,11,12	13,14,15	16,17,18	1,2	8,9,20
Sensor	PT100 temperature sensor	Electrode	PT100 temperatures ensor	Electrode	PT100 temperatures ensor	Electrode	PT100 temperature sensor	Electrode	PT100 temperature sensor
Function	Monitoring thrust bearing temperature	Monitor the temperature in the oil chamber	Monitor the bearing temperature	Protection, prevent motor water inflow	A phase temperature monitoring protection	B phase temperature monitoring protection	C phase temperature monitoring protection	Water intake alarm in junction box	Monitor upper bearing temperature
Resistance value in normal state	When 0℃ ≈100Ω	≥30kΩ	When 0℃ ≈100Ω	≥120kΩ	When 0℃ ≈100Ω	When 0℃ ≈100Ω	When 0℃ ≈100Ω	≥120kΩ	When 0℃ ≈100Ω
Resistance value in fault state	When 95℃ ≈136Ω	Relative temperature ≥95% 时 < 30kΩ	When 95℃ ≈136Ω	< 120kΩ	When 135℃ ≈151Ω	When 135℃ ≈151Ω	When 135℃ ≈151Ω	< 120kΩ	When 95℃ ≈136Ω

Accessories for ZQ and HQ Series Submersible Pumps

1). Beat the door

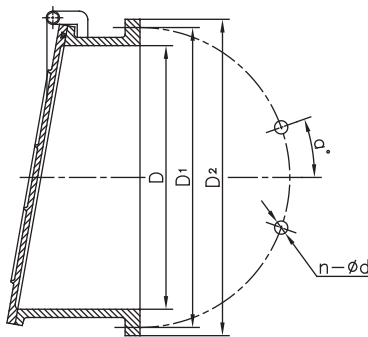
Shape and connection dimension of flap door

A. Outline and connection dimension table of pontoon flap door



D	D ₁	D ₂	n-φ d	α°	Weight (Kg)
300	395	440	12-Φ23	15	82
400	495	540	8-Φ23	22.5	90
500	600	645	12-Φ23	15	101
600	705	755	12-Φ27	15	148
700	810	860	12-Φ27	15	180
800	920	980	12-Φ27	15	240
900	1020	1075	12-Φ27	15	315
1000	1120	1175	12-Φ30	15	405
1200	1320	1380	12-Φ30	15	448
1300	1430	1500	12-Φ30	15	665
1400	1520	1575	12-Φ30	15	891
1600	1760	1830	12-Φ36	15	Need to contact the manufacturer
1800	1970	2045	44-Φ30	4.1	

B. Counterweight flap door outline drawing and connection dimension table



D	D ₁	D ₂	n-φ d	α°	Weight (Kg)
300	395	440	12-Φ23	15	82
400	495	540	8-Φ23	22.5	91
500	600	645	12-Φ23	15	97
600	705	755	12-Φ27	15	154
700	810	860	12-Φ27	15	188
800	920	980	12-Φ27	15	213
900	1020	1075	12-Φ27	15	282
1000	1120	1175	12-Φ30	15	330
1200	1320	1380	12-Φ30	15	388
1300	1430	1500	12-Φ30	15	649
1400	1520	1575	12-Φ30	15	856
1600	1760	1830	12-Φ36	15	Need to contact the manufacturer
1800	1970	2045	44-Φ30	4.1	

2).Intelligent integrated protector for submersible pump

1. The intelligent controller of submersible pump is mainly used to monitor the overheating and water inflow during the operation of submersible pump due to faults, so as to ensure the normal operation of the equipment. The controller is equipped with 485 output interface, which can communicate with PC point to point and monitor the operation of water pump in real time. The controller is designed by single-chip microcomputer. In addition to its strong functions, the designer has taken a series of anti-interference measures to ensure the reliable operation of the controller in view of the special situation of the operation of the submersible electric pump. The input end of the sensor has strong anti voltage impact ability to adapt to the working environment of the electric pump. This controller is most suitable for the supporting use of the electric pump.

1.1 Intelligent controller of submersible pump I

The controller uses PT100 platinum resistance as bearing temperature sensor, jw6a as winding alarm temperature sensor, water in motor, oil chamber and junction box cover uses water pole switch as sensor. The controller has two operation modes, monitoring mode and exit mode.

Monitoring mode: in this mode, the controller has digital setting for bearing temperature. When the bearing temperature exceeds the limit, the winding temperature jw6a exceeds the limit, or the motor water enters, the oil chamber water enters, and the junction box water enters, the alarm category display box has indicator light indication. At the same time, the corresponding alarm relays KS and kJ are electrically closed for output, which is used for external circuit connection indicator and control, After troubleshooting, the alarm sound can only be received by pressing the reset button on the front panel, and the reset terminal output is also set on the rear panel for external reset button.

Exit mode: when the controller exits the mode after starting, only the bearing overtemperature is detected; Winding JW6A overtemperature; Water entering into the motor; Water in oil chamber; The controller can display the real-time temperature of the bearing, the alarm category display box can indicate the fault, but the corresponding relay KJ and relay KS do not output (do not act), there is no alarm sound.

1.2 Intelligent controller of submersible pump II

PT100 platinum thermistor is used as bearing and winding alarm temperature sensor in the controller, which has the function of water inflow into motor, oil chamber, junction box cover and junction box. The bearing and winding temperature can be set digitally respectively. When the bearing temperature exceeds the limit or the winding temperature exceeds the limit, or the water enters into the motor, oil chamber and junction box, the alarm category display box has an indicator light. At the same time, the corresponding alarm relays KS and kJ are electrically closed for output, which is used for external circuit connection indicator and control, After troubleshooting, you need to press the reset button on the front panel to remove the alarm sound. The rear panel is also equipped with reset terminal output for external reset button.

Exit mode: when the exit mode is started, the controller only has bearing overheating; Winding overtemperature; Water entering into the motor; Water in oil chamber; The controller can display the real-time temperature of the bearing and winding, the alarm category display box can indicate the fault, but the corresponding relay KJ and relay KS do not output (do not act), there is no alarm sound.

1.3 Intelligent controller of submersible pump III

JW6A is used as the winding alarm temperature sensor, the motor is fed into water, and the motor switch is used as the sensor for the water inlet of the junction box. There are two operation modes, monitoring mode and exit mode.

Monitoring mode: in this mode, the controller has the function of winding temperature overrun alarm, motor water inflow and water inlet alarm function of junction box. When the winding temperature exceeds the limit, or the motor is in water, the alarm category display box will have indicator light indication when the junction box is in water, and the corresponding alarm relay KS and kJ contacts are closed and output for external circuit to connect indicator and control, After troubleshooting, the alarm sound can be released only after pressing the reset switch button of front panel. The rear panel also has reset terminal output, which can be used for external reset button.

Exit mode; When the exit mode is started, the controller only has the winding jw6a over temperature and the motor is in water; The water inlet alarm indication function of the junction box cover, and the alarm category display box can indicate the fault, but the corresponding relay kJ and relay KS do not output (do not act), and there is no alarm sound.

Complete Set of Axial Flow (Mixed-Flow) Submersible Pump and Installation System

No.	Name	Installation form								Remark
		Wellbore suspension type	Wellbore floor type	Elbow suspended type	Cement Wellbore type	Cable stayed	Open type I	Open type II	Gate installation type	
1	Axial Flow (Mixed-Flow) Submersible Pump	★	★	★	★	★	★	★	★	The pump type, flow rate, head, voltage, installation form, etc. shall be indicated when ordering
2	Seat ring	★	★	★	★		★	★	★	Q235-A, HT200 or 1Cr18Ni9Ti
3	Steel pit shaft	★	★	★		★	★	★		Q235-A or 1Cr18Ni9Ti
4	Suction hood					★				
5	Diffusion tube	☆	☆	☆	☆	☆	☆	☆	☆	
6	Wall tube	☆	☆	☆	☆	☆		☆	☆	
7	Drain pipe					☆				
8	Embedded pit shaft				★					
9	Reducing Bend			★						
10	Manhole cover	★	★		★			★		
11	Suspension device	★	★	★	★		★	★		
12	Cable clamping device	★	★	★	★	★	★	★	★	
13	Sled assembly					★				
14	Pump truck assembly					★				
15	Seal gasket	★	★	★	★	★	★	★	★	
16	Standard fasteners	★	★	★	★	★	★	★	★	Ordinary steel or stainless steel
17	Foundation bolt	★	★	★	☆		★	★	☆	Ordinary steel or stainless steel
18	Flap valve	☆	☆	☆	☆	☆	☆	☆	☆	Steel gravity flap valve or float flap valve
19	Flexible rubber joint	☆	☆	☆	☆	☆	☆	☆	☆	
20	Special starting cabinet	☆	☆	☆	☆	☆	☆	☆	☆	
21	Terminal box	☆	☆	☆	☆	☆	☆	☆	☆	
22	Integrated protector	★	★	★	★	★	★	★	★	
23	Power cable	☆	☆	☆	☆	☆	☆	☆	☆	The length of attached cable is 10m or the length shall be indicated when ordering
24	Control cable	☆	☆	☆	☆	☆	☆	☆	☆	
25	Water level controller	☆	☆	☆	☆	☆	☆	☆	☆	
26	Mechanical seal	☆	☆	☆	☆	☆	☆	☆	☆	Indicate the quantity when ordering spare parts
27	"O" seal ring	★	★	★	★	★	★	★	★	
28	Bearing	☆	☆	☆	☆	☆	☆	☆	☆	
29	Special tools	☆	☆	☆				☆	☆	

Description: ★ It is a necessary part to be purchased, which is necessary for adopting this installation form;

☆ It is an optional part, and the user decides whether to purchase or not and the quantity according to the needs.

Ordering Instructions

1. When ordering, the name, model and specification, number of units, installation mode, complete set range, starting mode, head, flow, power, voltage, water quality condition and main parts material of submersible electric pump shall be indicated. It should be noted that the selected head is the full head including the total head loss of the pump device. If the full head is not estimated correctly, it should be noted that, You can indicate the net head and installation method, consult our company to calculate the more accurate head, and determine the model and specification of submersible pump.
2. The maximum and minimum head of the pump should refer to the performance curve and performance table of this sample. In case of exceeding the scope, please consult our company.
3. When selecting the installation method, it is recommended that the sample size should be preferred for the steel shaft installation method. If you need to change the size in the table or choose other installation methods, please consult our company.
4. Please pay attention to the range of complete sets listed in this sample when ordering. It is suggested that the must buy parts should be preferred, and the optional parts are recommended.
5. The company can provide all kinds of starting cabinets with special protector for electric pump, automatic liquid level control device and multi pump logic sequence control device for pump station.
6. If no special requirements are specified, the frequency of the power supply of the electric pump is 50 Hz, the voltage is generally 380 V, and the power is greater than 315 kW, it is recommended to select 6 kV and 10 kV. When indicated in the contract, the order requirements of 50 Hz and 660 V are accepted. For other frequency (such as 60Hz) and voltage of special products can be negotiated when ordering.

