

Submersible Axial, Mixed Flow Propeller Pump

Model ZQ,HQ

Application

For Handling Pure, Raw and Waste Water as well as Seawater in

- Water Works
- Irrigation and Drainage
- Pumping Stations
- Power Stations
- Industrial Water Supply
- Fire Fighting Systems
- Marine and Offshore Engineering
- General Applications in the Petrochemical Industry
- Seawater Desalination

Welcome to KaiQuan's website to learn more.

www.kaiquangroup.com



Company Profile

Shanghai Kaiquan Pump (Group) Co., Ltd. is a leading enterprise specializing in the design, production and sale of pumps, water-supply facilities and pump control equipment. Kaiquan boasts assets exceeding 2.5 billion yuan, with 7 enterprises and 5 industrial parks in Shanghai, Zhejiang, Hebei, Liaoning and Anhui, covering a total area of nearly 67 hectares, and a building area of 350,000 square meters for production.

For 12 consecutive years Kaiquan has achieved the highest volume of sales within China's domestic pump industry. The company's success has far outstripped that of its competitors, with Kaiquan's profits reaching 3 billion yuan in 2013 - twice that of the nearest competitor. The company's role as market leader of China's pump industry is reflected in the quality of its people. 80% of the group's 5,000 strong workforce are college graduates, and amongst them are more than 750 engineering technicians comprising some of China's best-known experts, professors and senior engineers.

Kaiquan's excellence in business and engineering has been recognised with the following accolades: Shanghai Quality Golden Prize, the fourth place in Top 100 Shanghai PVT Enterprise, Shanghai Top 100 Technical Enterprise, Grade AAA China Quality Credit, Grade AAA National Contract Credit, Excellent Enterprise in Quality, Creditability and Services, China's Most Competitive Commodity Trademark, and Advanced Unit of National Enterprise Cultural

Construction. In 2013, Kaiquan was selected as one of China's top 500 organisations in the mechanical industry for the third consecutive year, coming first place in the pump industry nationwide.

Dedication to excellent customer service is one of Kaiquan's core values. The group's 300 service-dedicated engineers provide comprehensive expert solutions for customers, and with the use of the latest technology, are able to respond highly efficiently to client requests. In addition, Kaiquan's extensive national service network, composed of 32 sales branch companies and 361 agencies – allows the company to execute its "Blue Fleet Services" programme - allowing experienced technicians to respond to customer requests at any time of day, within a turnaround time of just 4 hours. This attention to the needs and aspirations of customers has ensured Kaiquan's role as China's leading producer of competitive and reliable products within the pump industry.

Kaiquan's vision for the future is to expand the group's activities with the localized production of high-end pump products for application within a diverse range of fields and projects, such as those related to nuclear power, large-scale fire power, petrochemical engineering, military projects and sea water desalination. Shanghai Kaiquan seeks to become a world famous brand, and intends to become a multinational corporation and a top 10 contender in the global pump market.



Table of Contents

| | |
|--|----|
| 1 Product Overview..... | 01 |
| 2 Structure Specification..... | 02 |
| 3 Technical Specification..... | 05 |
| 4 Model Spectrum..... | 06 |
| 5 Performance Curves and Steel Shaft Installation Dimensions..... | 07 |
| 6 Prefabricated Shaft Installation Dimensions for Large Submersible Axial/Mixed Flow Pumps with Dust-pan-shaped Suction Box and Elbow Tube..... | 85 |
| 7 Application of Submersible Pumps Installed in Sled Type..... | 87 |
| 8 Application of Other Installation Methods in Actual Engineering..... | 88 |
| 9 Hydraulic Design Reference for Open Suction Boxes..... | 89 |
| 10 Weight List of ZQ, HQ Series Submersible Axial/Mixed Flow Pumps..... | 92 |
| 11 Electrical Control System of Submersible Pumps..... | 94 |
| 12 Accessories of ZQ, HQ Series Submersible Pumps..... | 96 |
| 13 Range of Complete Sets of Submersible Axial/Mixed Flow Pumps and Installation System..... | 98 |
| 14 Instructions for Ordering..... | 99 |

1. Product Overview

ZQ/HQ Series Submersible Axial/Mixed Flow Pump with partially adjustable blades (Named as“submersible pumps” in this sample specification) used new technology compared with traditional pumps. They retain many features of traditional models, such as large quantity of single unit, wide head range, and high efficiency. In addition, the motors used to drive the pumps are dry-type fully-enclosed submersible three-phase asynchronous motors, which ensure the pumps to work in a submerged manner for a long time, and this feature is not possessed by traditional models.

1. High adaptability

- (1) Can transport clean water and lightly polluted water, with media temperature up to 40°C and PH value of 4-10; The maximum diameter of passable particles is 100mm.
- (2) Applications: urban water supply, diversion projects, urban sewage and drainage systems, sewage treatment works, power station drainage systems, water supply and drainage for docks, water network hub diversion, irrigation and drainage, aquaculture and so on. It's suitable for occasions requiring low head and large flow, which is generally below 10m. Submersible mixed flow pumps, with high efficiency and good anti-cavitation performance, are suitable for occasions with large water level variations and high head, which is generally below 20m.

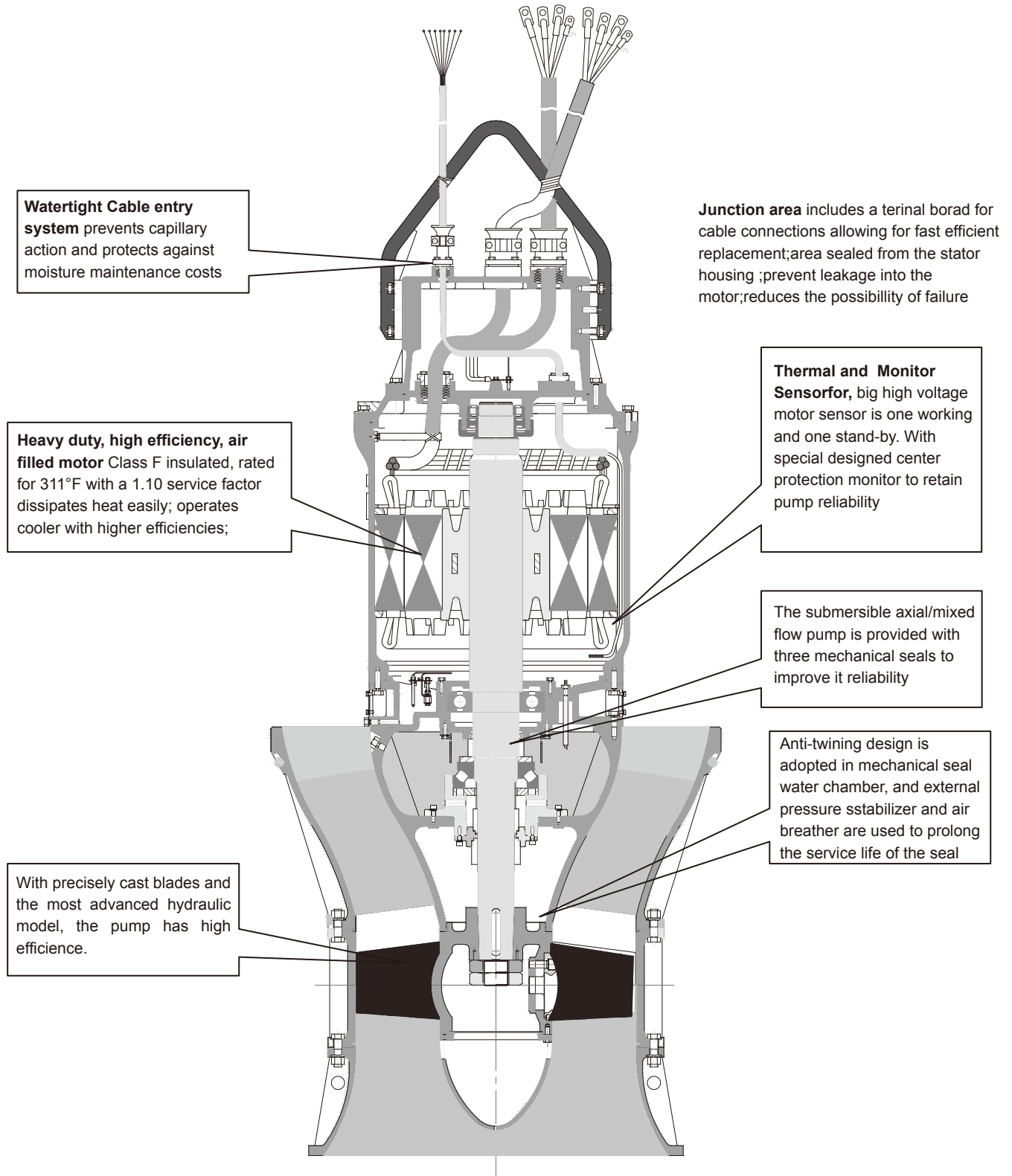
2. Less investment in pump station, and easy operation and management

- (1) The pump works underwater, it requires much less earthwork and structural engineering in building pump stations as well as less installation area. As a result, the construction cost could be reduced by 30-40%.
- (2) Integration of motor and pump saves the time and labor-consuming on-site assembly procedure of 'motor – transmission mechanism – pump axis centering', thus bringing easy and fast on-site installation.
- (3) Easy management, and low cost of management and operating .
- (4) It's easy to operate with remote and automatic control.
- (5) Low noise, without high-temperature area in pump stations; ensure operating environment well; fully underground pump stations could be built according to requirements, so as to retain environmental style and feature on the ground.
- (6) It's the best choice to solve flood prevention problems for motors installed in pump stations that are located along rivers and lakes with great water level fluctuations. In addition, by saving the long axis and intermediate bearings between motor and pump, the unit could run more stably and reliably.

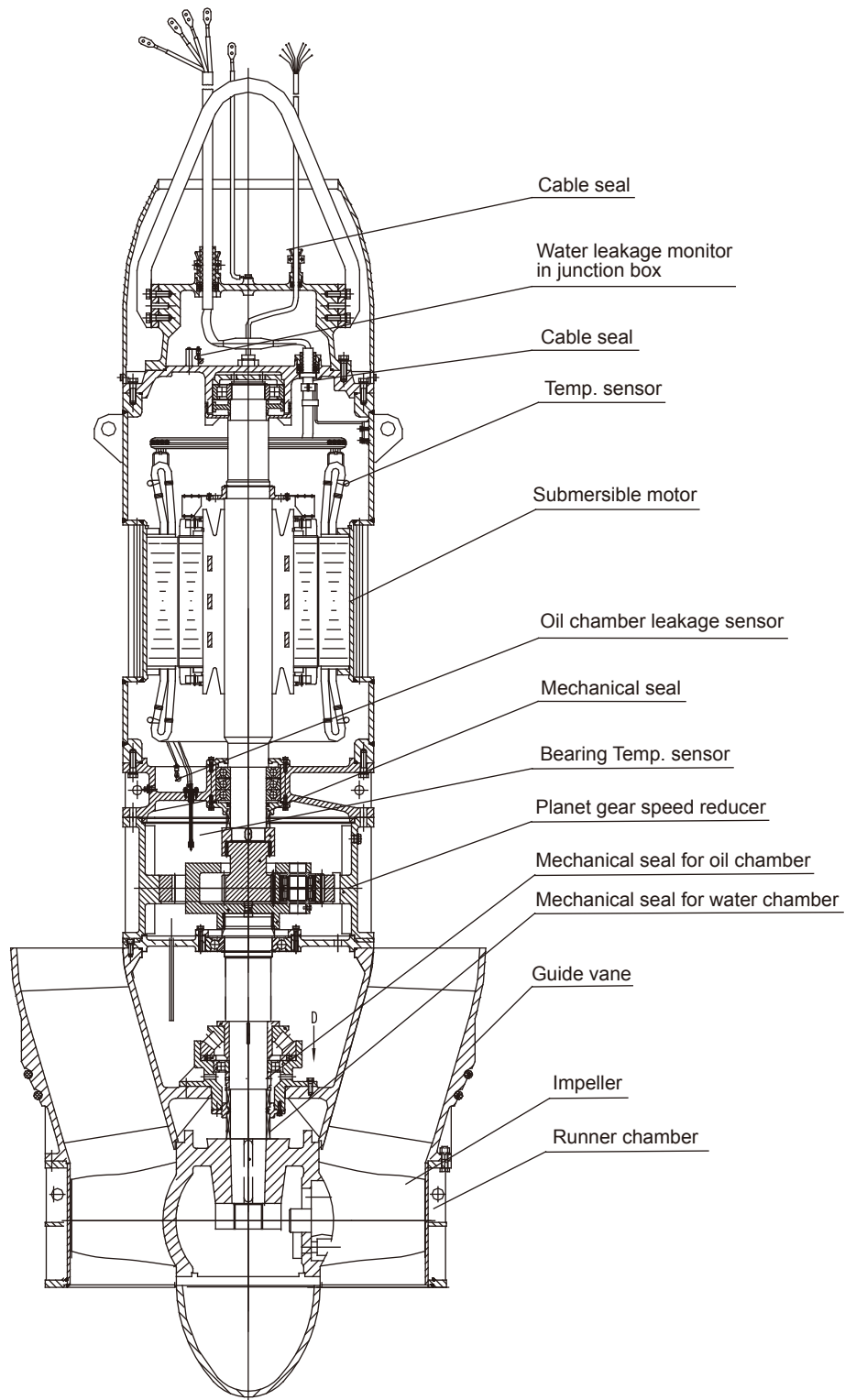
3. High reliability, no vibration, and low noise ZQ,HQ series submersible axial flow pump, mixed flow pump

- SHANGHAIKAIQUAN 2 All the rights to alter technology documents reserved!
- (1) With excellent hydraulic model, ensure users' performance requirements. Interchangeability with traditional models for users to choose. There are a series of these pumps, which have a wide high-efficiency range, applicability to different working conditions, high energy efficiency, and low operating costs.
 - (2) The double or triple mechanical seals prevent leakage. Adequately lubricated special thrust bearings with reasonable structure design and long service life are adopted.
 - (3) With Grade F insulation, and come with temperature protection, monitoring, leakage sensor and other warning units.
 - (4) With good cooling conditions as submersible in water, Operating stable with minimal vibration, and low noise.

2. Structure Instruction



Structure diagram of 1600-2400(caliber) large submersible pump with planetary reducer



1. Impeller

The impeller exploited by hydraulic model conversion with highly advanced. Stable and mature with good performance. Smaller suction diameter and good anticavitation performance ensure its smooth operation.

2. Shaft seal

Two or three sets of independent mechanical sealing devices ensure the motor not affected by the pump. For more reliability , installation use a tandem.

3. Oil chamber

Oil lubrication can used as cooling the seal, and also prevent the medium to the motor. The inner room can relieve sharp rise of the internal pressure in the oil chamber.

4. Advanced cable seal

The special proprietary technology forthe cable seal can prevent water or air from radially permeating into the inside of the cablethrough the cable shield. Water leakage between cable cores and capillary leakage can be avoided as well. It is convenient to dismantle or replace the cable.

5. Bearing

Used rolling bearings, which can bear all the axial and radial loads and be isolated from pumped medium.

6. Pump/ motor shaft

The pump shares the shaft with the motor. The structure is compact and the shaft extension is shortened as far as possible. The rigidity is strengthened in design, and the influence of deflection on the product's safety andreliability is reduced. The product produces slight vibration while runningand has long seal and bearing life.

7. Motor

The high-performance squirrel cage induction motor, used in submersible pumps, is specially designed and made by Shanghai Kaiquan according to GB755 standard. Insulation grade: F; rated frequency: 50HZ; protection class: IP68. Three VPI processes are used to ensure reliable insulation. Various voltage classes including380V, 660V, 6kV, and 10kV are available for different power requirements. We can also design and manufacture products with special voltage classes according to customers' requirements.

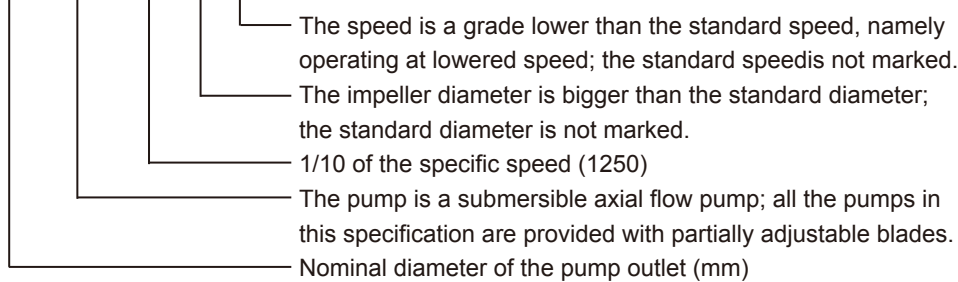
8. Monitoring devices

The submersible pump is equipped with multiple sensors, such as a leakage sensor, an over-temperature sensor, and a water intrusion sensor. These sensors are checked and controlled by a special protector installed in the electrical cabinet. Thus, the submersible pump is under effective protection in real time.

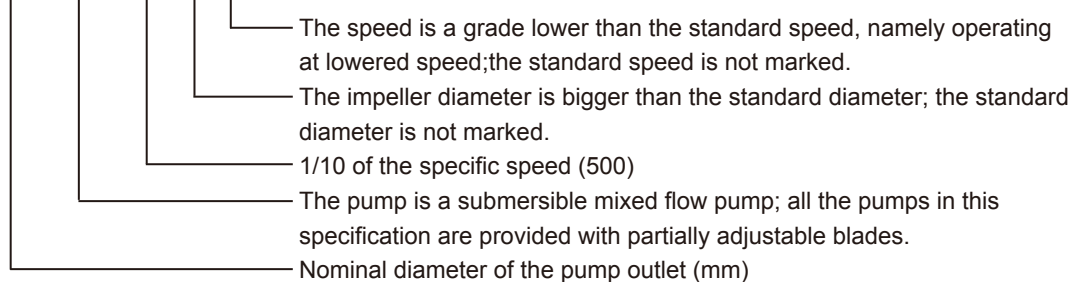
3. Technical Specification

1. Basic model explanation

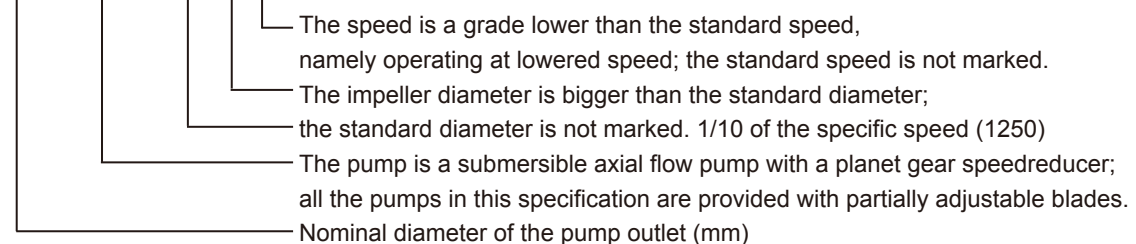
a. 500 ZQ - 125 C D



b. 700 HQ - 50 C D

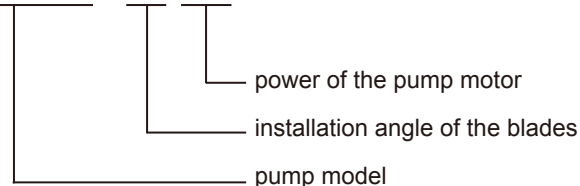


c. 1800 ZQX - 125 C D



d. The sample model is in accordance with industrial standard; the front part is the basic model of the submersible pump, and the rear shows some further details.

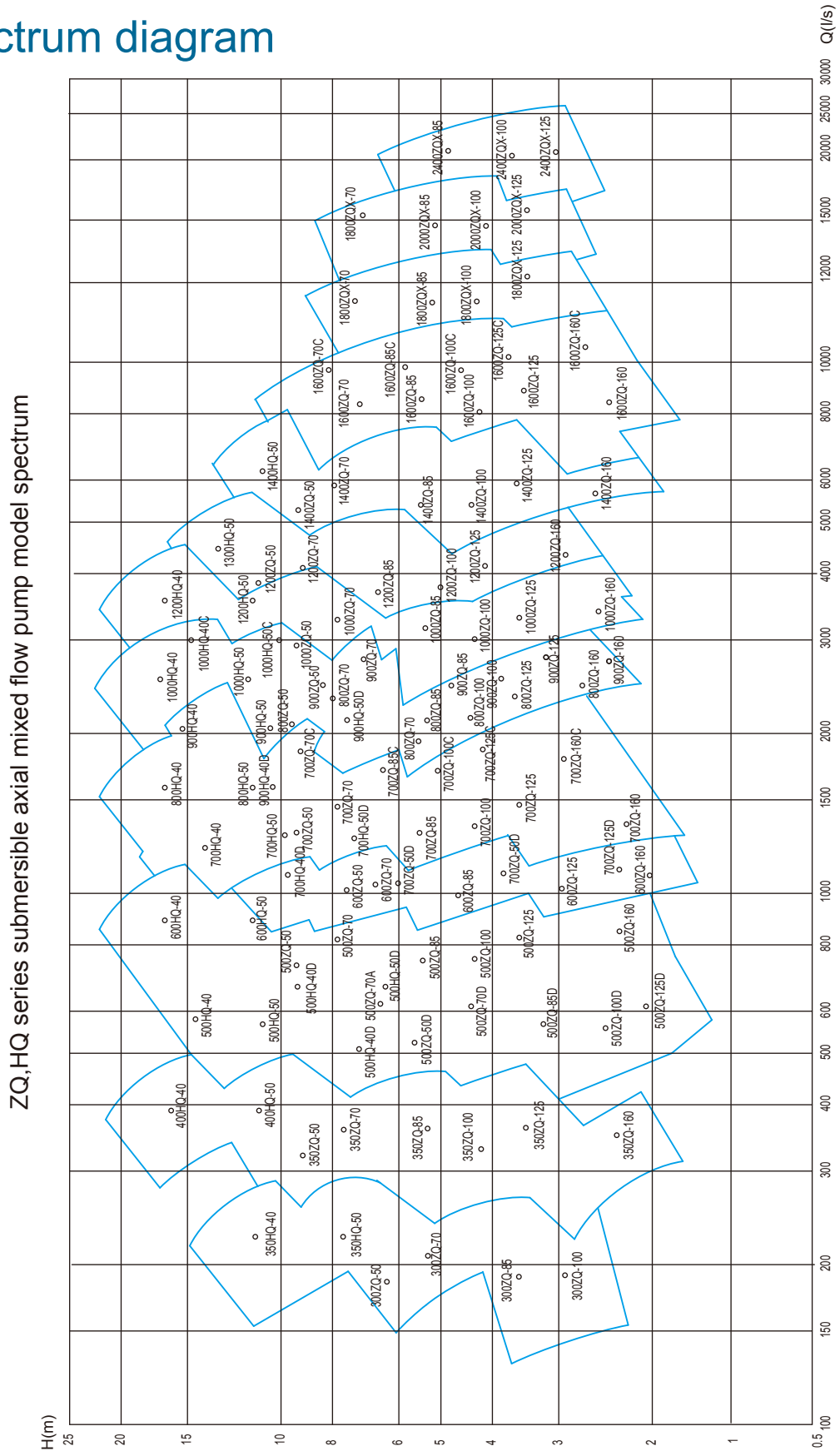
For example: 500ZQ-125- (0) -55



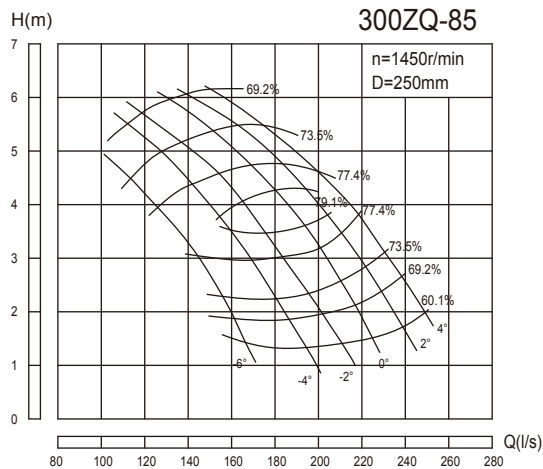
In addition, the customer should specify the additional information (impeller material, voltage class, and installation type) in written form when ordering.

e. The performance curves in this specification are only about even angles, and the practical angles (including even angles and odd angles) are subject to the parameters provided by the company's technical department.

4. Spectrum diagram

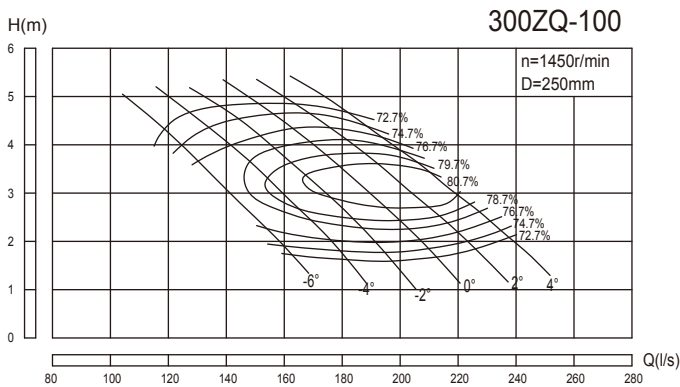


5. Performance curve and steel wellhole installation dimensions



300ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | | | | | | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|
| | (m ³ /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 | | 1450 | 4.8 | 11 | | 69.3 | 250 | | | | | | | | |
| | 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 | | | 1450 | 5.6 | | 11 | | 69.3 | 250 | | | | | | |
| | 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 | | | | 1450 | | 6.6 | | 15 | | 69.3 | 250 | | | | |
| | 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 | | | | | | 1450 | | 8.1 | | 15 | | 69.3 | 250 | | |
| | 743.8 | 206.6 | 3.92 | | | | | | | | 10 | | | | 79.3 | | | |
| | 527 | 146.4 | 5.9 | | | | | | | | 12.2 | | | | 69.3 | | | |
| +4° | 900 | 250 | 2.73 | | | | | | | | 1450 | | 9.7 | | 15 | | 69.3 | 250 |
| | 760.3 | 211.2 | 4.44 | | | | | | | | | | 11.7 | | | | 78.3 | |
| | 574.9 | 159.7 | 5.89 | | | | | | | | | | 13.3 | | | | 69.3 | |



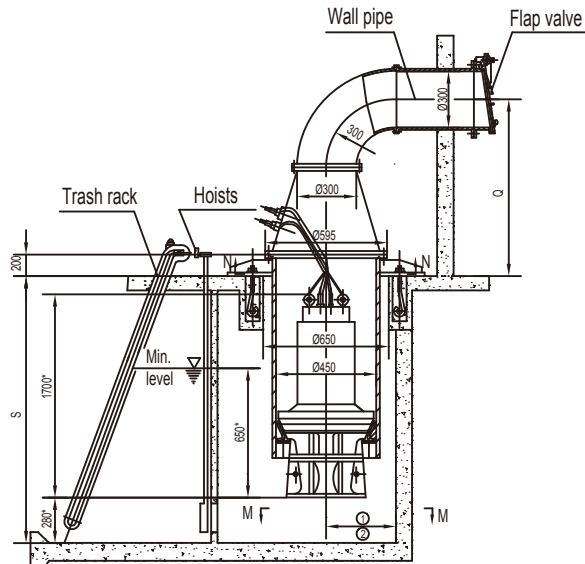
300ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | | | | | | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|
| | (m ³ /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 | | 1450 | 4.6 | 11 | | 76.7 | 250 | | | | | | | | |
| | 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 | | | 1450 | 4.9 | | 11 | | 76.7 | 250 | | | | | | |
| | 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 | | | | 1450 | | 5.4 | | 11 | | 76.7 | 250 | | | | |
| | 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 | | | | | | 1450 | | 6.2 | | 15 | | 76.7 | 250 | | |
| | 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 | | | | | | | | 1450 | | 7.2 | | 15 | | 76.7 | 250 |
| | 781.2 | 217 | 3.09 | | | | | | | | | | 8.1 | | | | 80.9 | |
| | 698 | 193.9 | 4.17 | | | | | | | | | | 10.3 | | | | 76.7 | |

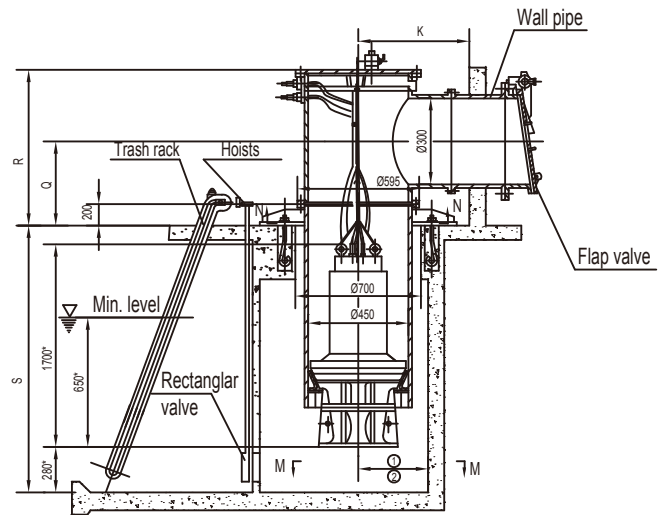
300ZQ-85,300ZQ-100

Outside installation dimensions drawing

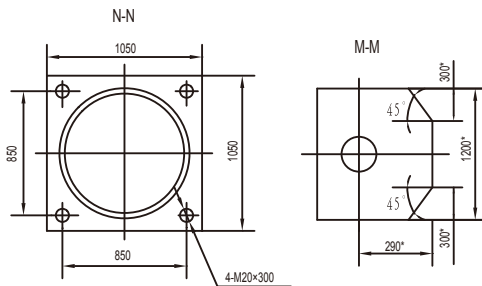
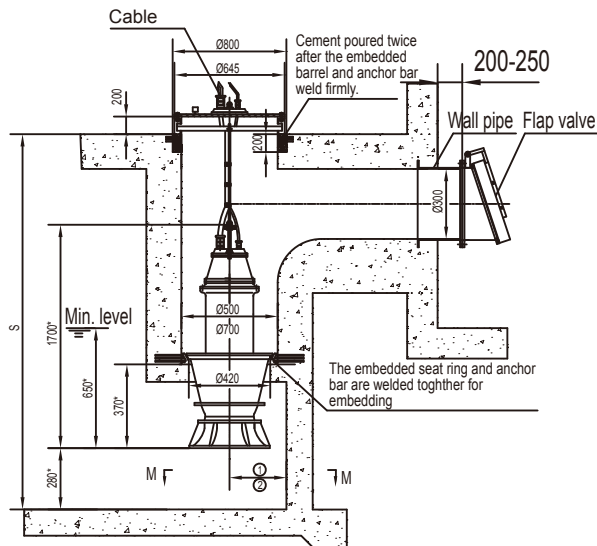
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

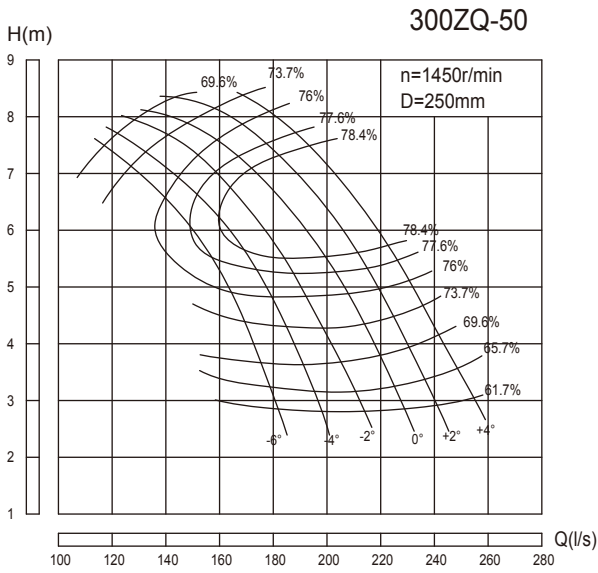


3. Installation with prefabricated concrete



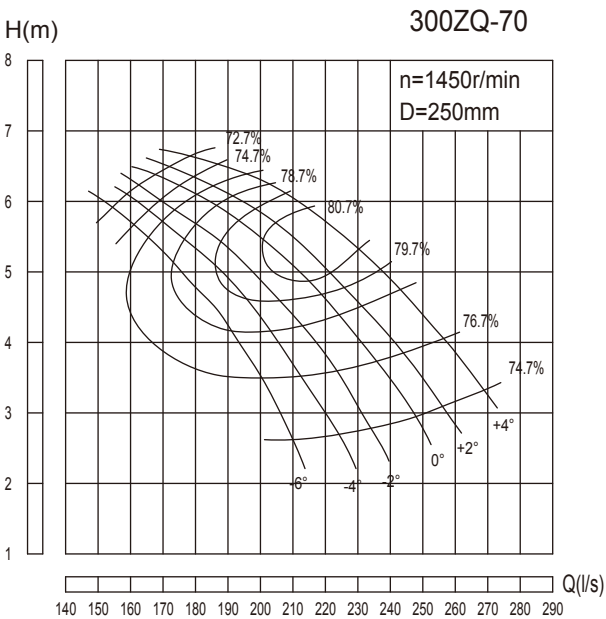
Note: S.Q.R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



300ZQ-50 Performance parameter list

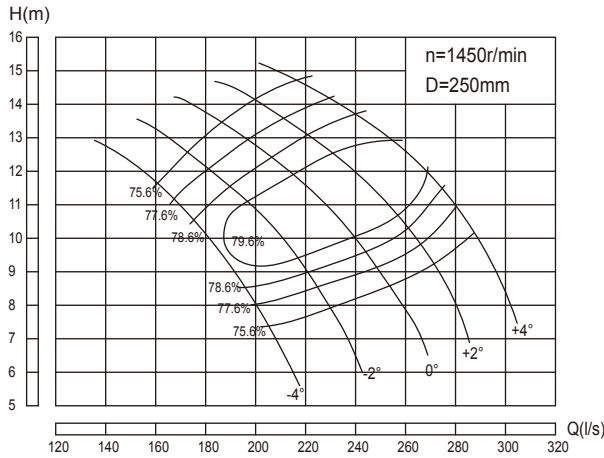
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | 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 | 18.5 | 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 list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | 22 | 76.9 | | |
| | 796 | 221.1 | 5.69 | 14.9 | | 82.9 | | |
| | 643.7 | 178.8 | 6.67 | 15.6 | | 74.9 | | |

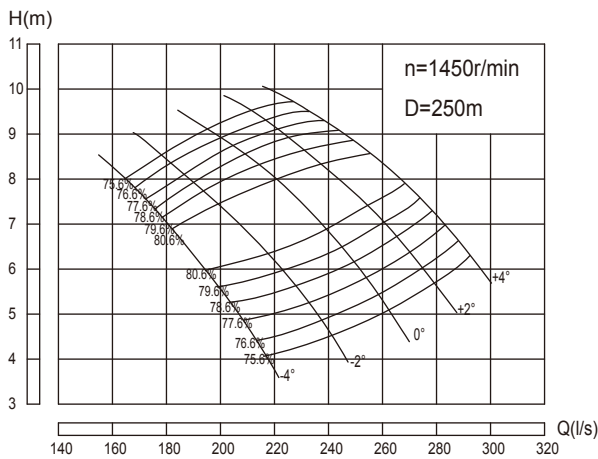
350HQ-40



350HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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° | 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° | 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



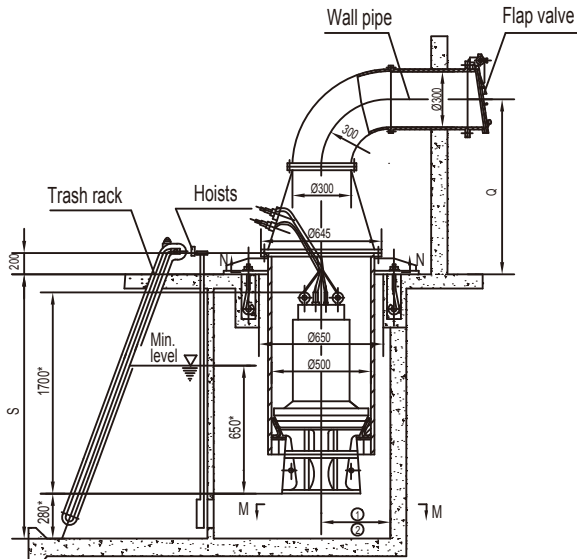
350HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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° | 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° | 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 | |

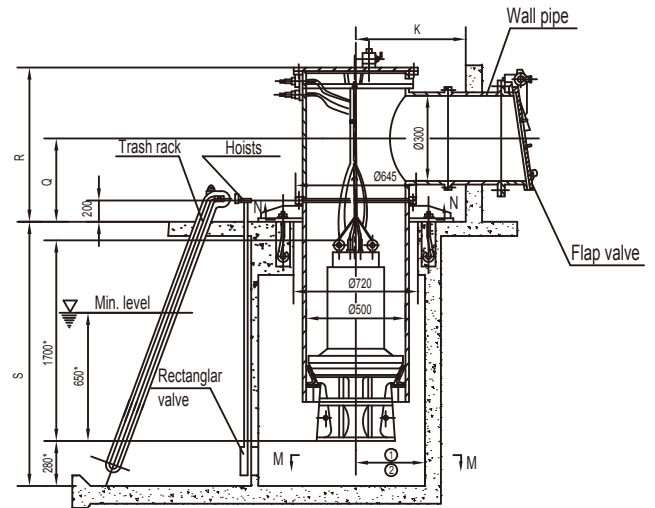
300ZQ-50,300ZQ-70,350HQ-40,350HQ-50

Outside installation dimensions drawing

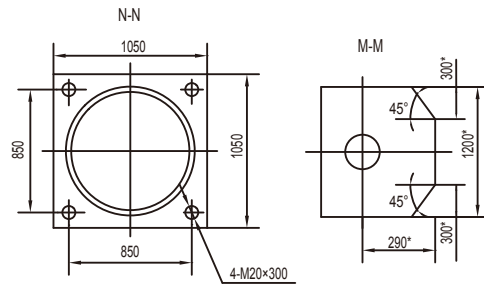
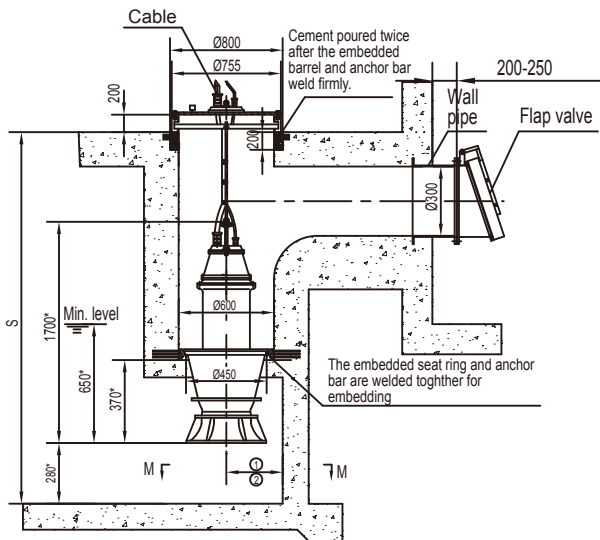
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

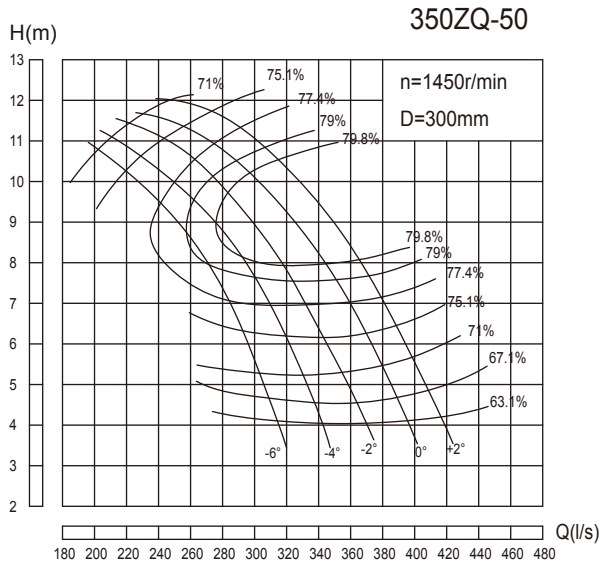


3. Installation with prefabricated concrete



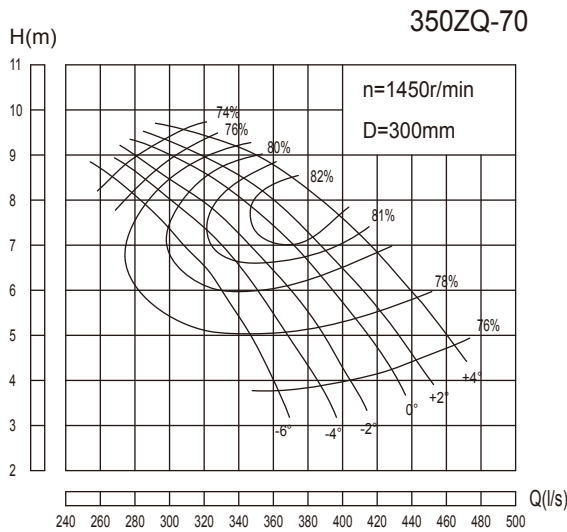
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



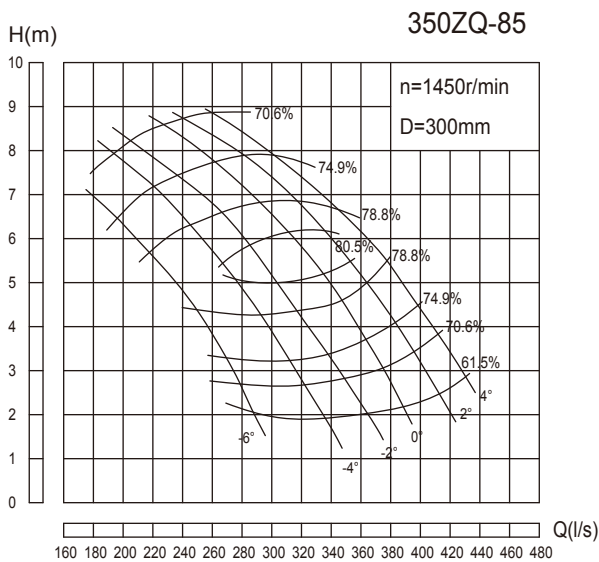
350ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 300 |
| | 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 | | 300 |
| | 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 | | 300 |
| | 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 | 300 | | |
| | 1216.4 | 337.9 | 9.33 | 38.4 | | 80.5 | | | |
| | 992.9 | 275.8 | 11.78 | 42.4 | | 75.1 | | | |



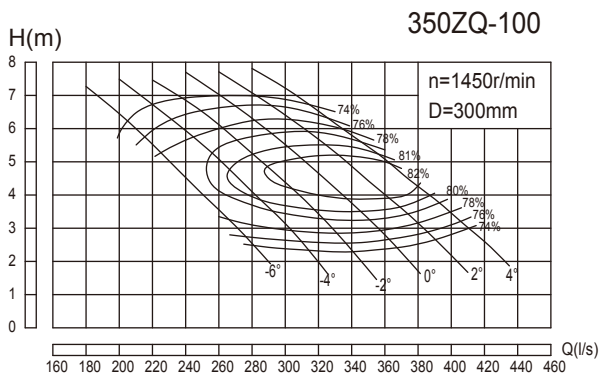
350ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 300 |
| | 1180.8 | 328 | 7 | | 27.7 | | 81.2 | | |
| | 990 | 275 | 8.88 | | 32.4 | | 74 | | |
| -2° | 1458 | 405 | 4 | | 20.9 | 37 | 76 | | 300 |
| | 1242 | 345 | 7.3 | | 30.4 | | 81.4 | | |
| | 1011.6 | 281 | 9 | | 33.5 | | 74 | | |
| 0° | 1530 | 425 | 4.3 | | 23.6 | 37 | 76 | | 300 |
| | 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 | 300 | | |
| | 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 | 300 | | |
| | 1375.2 | 382 | 8.2 | 37.5 | | 82 | | | |
| | 1112.4 | 309 | 9.6 | 39.3 | | 74 | | | |



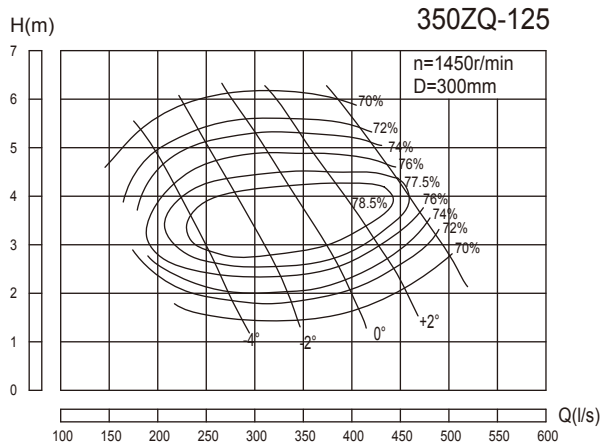
350ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



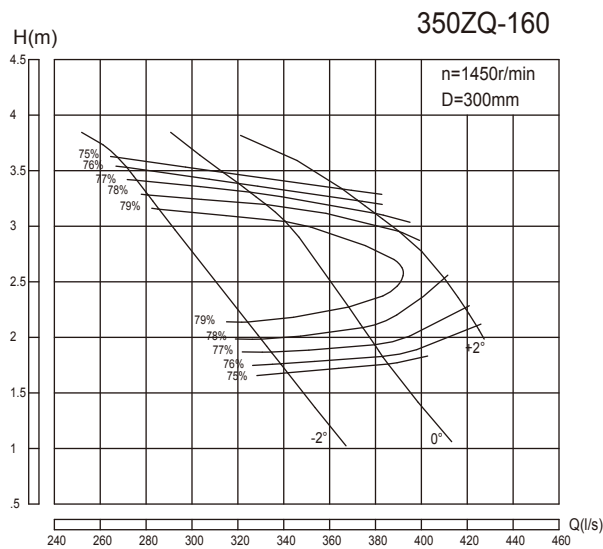
350ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | 30 | 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 | 30 | 78 | | |
| | 1350 | 375 | 4.45 | 19.9 | | 82.2 | | |
| | 1206 | 335 | 6 | 25.3 | | 78 | | |



350ZQ-125 Performance parameter list

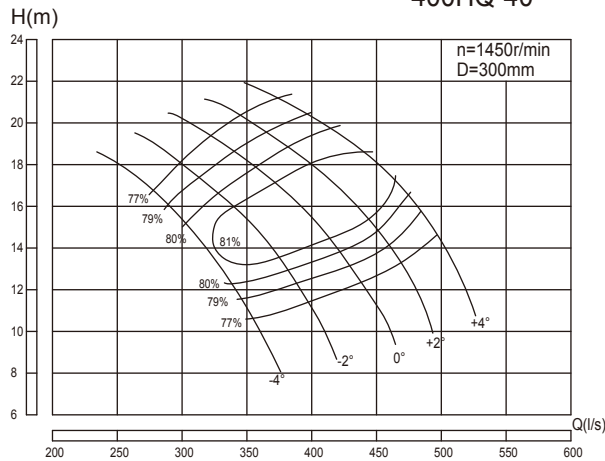
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | 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 list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |

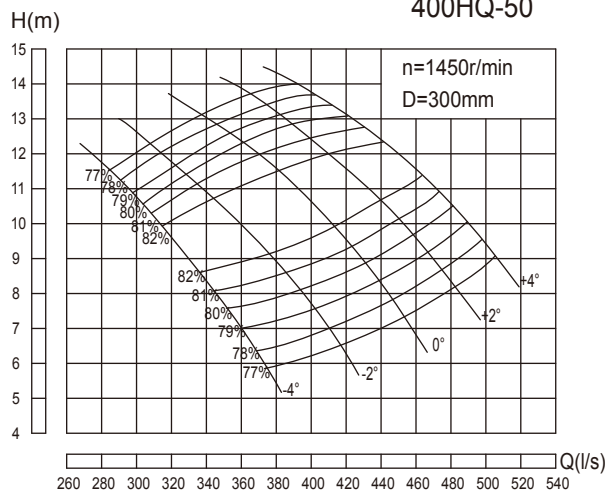
400HQ-40



400HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -4° | 1278 | 355 | 10.63 | 1450 | 48.1 | 75 | 77 | 300 | | | |
| | 1170 | 325 | 13.65 | | 53.9 | | 80.8 | | | | |
| | 1004.4 | 279 | 16.9 | | 60.1 | | 77 | | | | |
| -2° | 1432.8 | 398 | 11.46 | | 58.1 | 75 | 77 | | 300 | | |
| | 1296 | 360 | 14.8 | | 64.5 | | 81 | | | | |
| | 1080 | 300 | 18.23 | | 69.7 | | 77 | | | | |
| 0° | 1573.2 | 437 | 12.37 | | 68.9 | 90 | 77 | | | 300 | |
| | 1404 | 390 | 16.1 | | 75.8 | | 81.3 | | | | |
| | 1162.8 | 323 | 19.57 | | 80.5 | | 77 | | | | |
| +2° | 1688.4 | 469 | 13.38 | | 79.9 | 110 | 77 | | | | 300 |
| | 1512 | 420 | 17 | | 85.4 | | 82 | | | | |
| | 1242 | 345 | 20.55 | | 90.3 | | 77 | | | | |
| +4° | 1789.2 | 497 | 14.75 | 93.4 | 110 | 77 | 300 | | | | |
| | 1620 | 450 | 18.2 | 98.6 | | 81.5 | | | | | |
| | 1350 | 375 | 21.38 | 102.1 | | 77 | | | | | |

400HQ-50



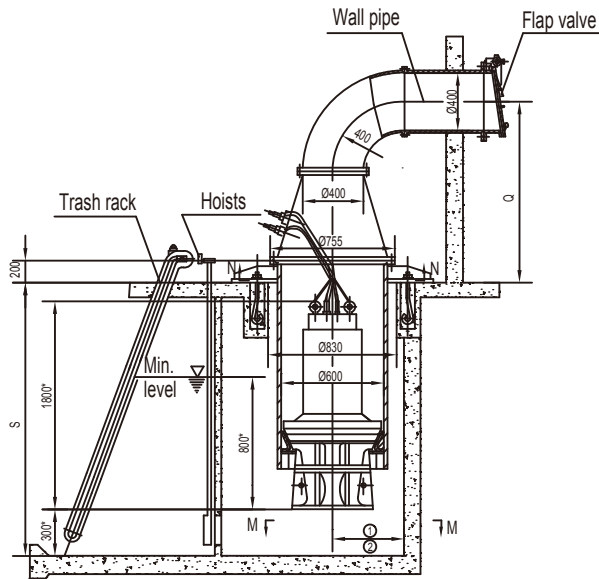
400HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -4° | 1328.4 | 369 | 6.35 | 1450 | 29.5 | 45 | 78 | 300 | | | |
| | 1152 | 320 | 9.7 | | 37.1 | | 82 | | | | |
| | 1040.4 | 289 | 11.25 | | 40.9 | | 78 | | | | |
| -2° | 1476 | 410 | 7 | | 36.1 | 55 | 78 | | 300 | | |
| | 1260 | 350 | 10.5 | | 43.9 | | 82.1 | | | | |
| | 1130.4 | 314 | 12 | | 47.4 | | 78 | | | | |
| 0° | 1609.2 | 447 | 7.8 | | 43.9 | 75 | 78 | | | 300 | |
| | 1404 | 390 | 11 | | 51.3 | | 82 | | | | |
| | 1245.6 | 346 | 12.85 | | 55.9 | | 78 | | | | |
| +2° | 1710 | 475 | 8.7 | | 52 | 75 | 78 | | | | 300 |
| | 1476 | 410 | 12 | | 58.9 | | 82 | | | | |
| | 1353.6 | 376 | 13.4 | | 63.4 | | 78 | | | | |
| +4° | 1792.8 | 498 | 9.5 | 59.5 | 75 | 78 | 300 | | | | |
| | 1584 | 440 | 12.4 | 65.3 | | 82 | | | | | |
| | 1447.2 | 402 | 13.7 | 69.3 | | 78 | | | | | |

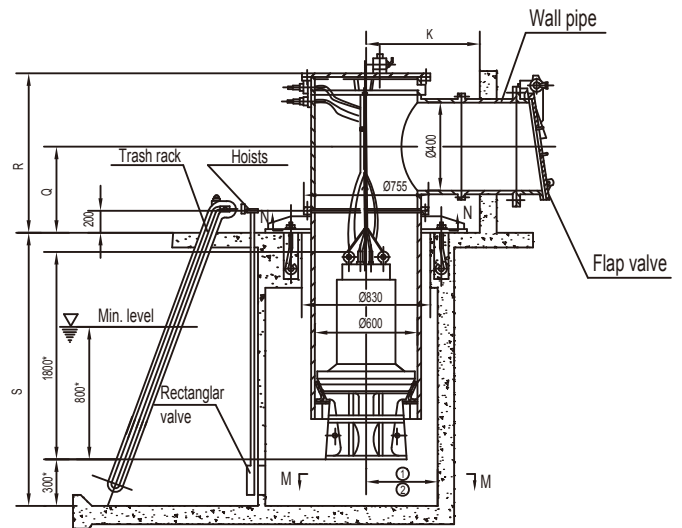
350ZQ-50,350ZQ-70,350ZQ-85,350ZQ-100,350ZQ-125,350ZQ-160,
400HQ-40,400HQ-50

Outside installation dimensions drawing

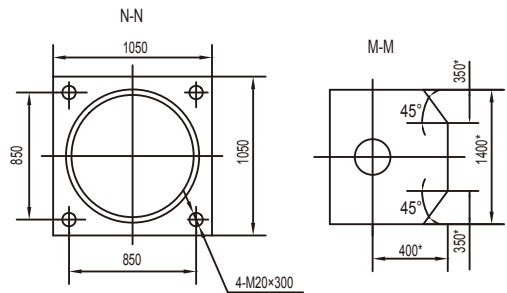
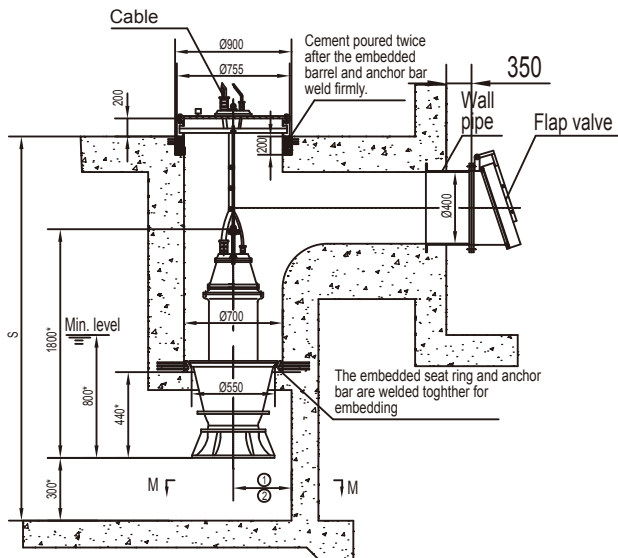
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

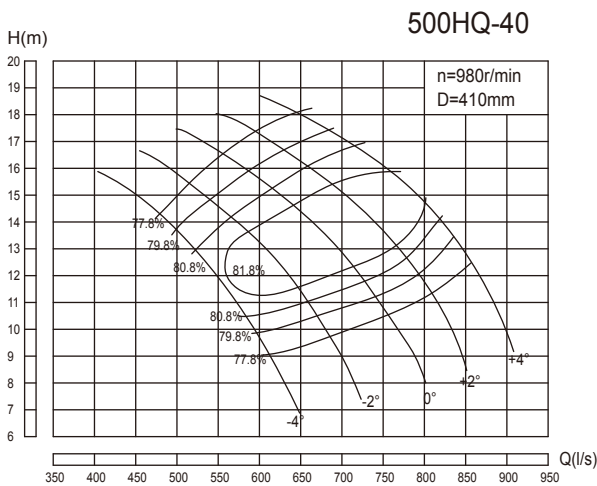


3. Installation with prefabricated concrete



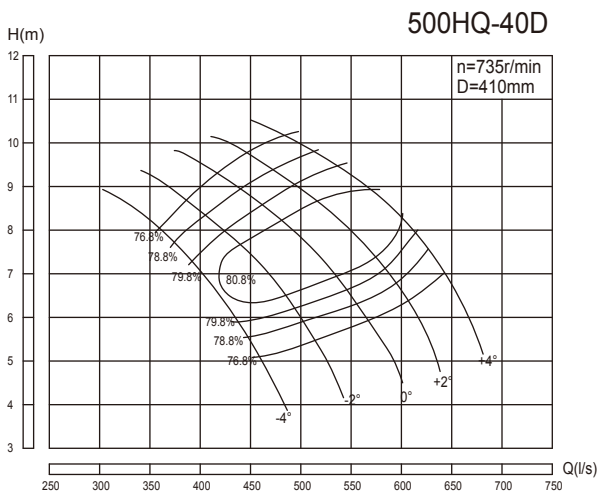
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290×between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



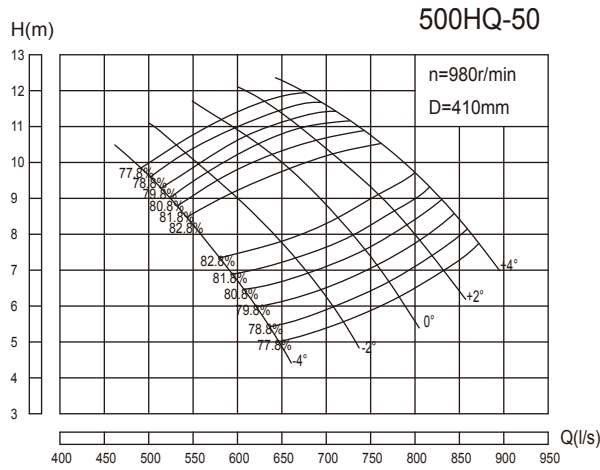
500HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|--|
| | (m ³ /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 | 90 | 81.6 | | |
| | 1732.7 | 481.3 | 14.42 | | 87.5 | 90 | 77.8 | | |
| -2° | 2471.8 | 686.6 | 9.78 | | 84.7 | 110 | 77.8 | | |
| | 2236 | 621.1 | 12.63 | | 94.1 | 110 | 81.8 | | |
| | 1863.4 | 517.6 | 15.55 | | 101.5 | 110 | 77.8 | | |
| 0° | 2714 | 753.9 | 10.55 | | 100.3 | 132 | 77.8 | | |
| | 2422.1 | 672.8 | 13.74 | | 110.5 | 132 | 82.1 | | |
| | 2005.9 | 557.2 | 16.7 | | 117.3 | 132 | 77.8 | | |
| +2° | 2912.8 | 809.1 | 11.42 | | 116.5 | 160 | 77.8 | | |
| | 2608.6 | 724.6 | 14.5 | | 124.5 | 160 | 82.8 | | |
| | 2142.7 | 595.2 | 17.53 | | 131.6 | 160 | 77.8 | | |
| +4° | 3086.6 | 857.4 | 12.58 | 136 | 160 | 77.8 | | | |
| | 2795 | 776.4 | 15.53 | 143.7 | 160 | 82.3 | | | |
| | 2329.2 | 647 | 18.24 | 148.8 | 160 | 77.8 | | | |



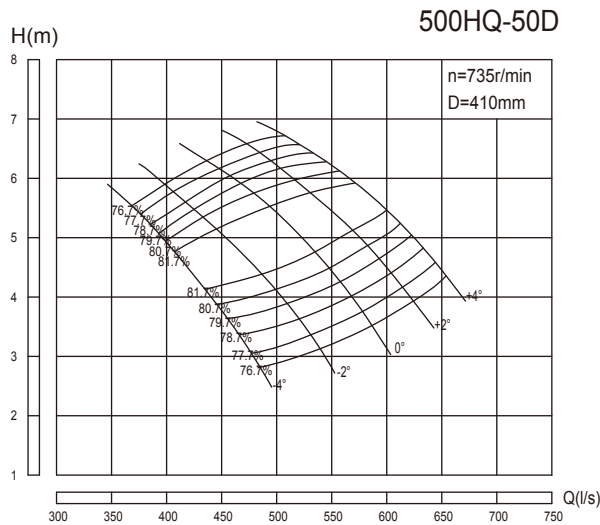
500HQ-40D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|--|
| | (m ³ /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 | 45 | 80.6 | | |
| | 1299.6 | 361 | 8.11 | | 37.4 | 45 | 76.8 | | |
| -2° | 1854 | 515 | 5.5 | | 36.2 | 45 | 76.8 | | |
| | 1676.9 | 465.8 | 7.1 | | 40.2 | 45 | 80.8 | | |
| | 1397.5 | 388.2 | 8.75 | | 43.4 | 45 | 76.8 | | |
| 0° | 2035.4 | 565.4 | 5.94 | | 42.9 | 55 | 76.8 | | |
| | 1816.6 | 504.6 | 7.73 | | 47.2 | 55 | 81.1 | | |
| | 1504.4 | 417.9 | 9.39 | | 50.1 | 55 | 76.8 | | |
| +2° | 2184.5 | 606.8 | 6.42 | | 49.8 | 75 | 76.8 | | |
| | 1956.2 | 543.4 | 8.16 | | 53.2 | 75 | 81.8 | | |
| | 1607 | 446.4 | 9.86 | | 56.2 | 75 | 76.8 | | |
| +4° | 2315.2 | 643.1 | 7.08 | 58.2 | 75 | 76.8 | | | |
| | 2096.3 | 582.3 | 8.73 | 61.3 | 75 | 81.3 | | | |
| | 1746.7 | 485.2 | 10.26 | 63.6 | 75 | 76.8 | | | |



500HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 410 | | |
| | 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 | | | 410 | |
| | 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 | | | | 410 |
| | 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 | 410 | | | | |
| | 2732.8 | 759.1 | 10.58 | 95.2 | | 82.8 | | | | | |
| | 2496.6 | 693.5 | 11.69 | 100.9 | | 78.8 | | | | | |



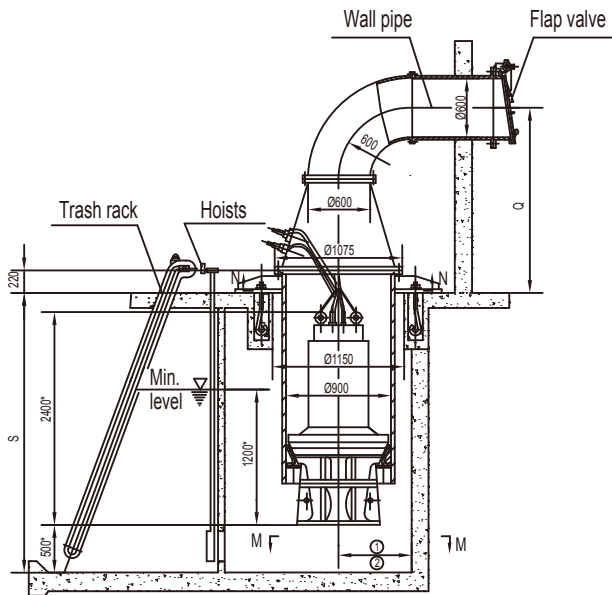
500HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 410 | | |
| | 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 | | | 410 | |
| | 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 | | | | 410 |
| | 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 | 410 | | | | |
| | 2049.5 | 569.3 | 5.95 | 40.6 | | 81.8 | | | | | |
| | 1872.7 | 520.2 | 6.57 | 43.1 | | 77.8 | | | | | |

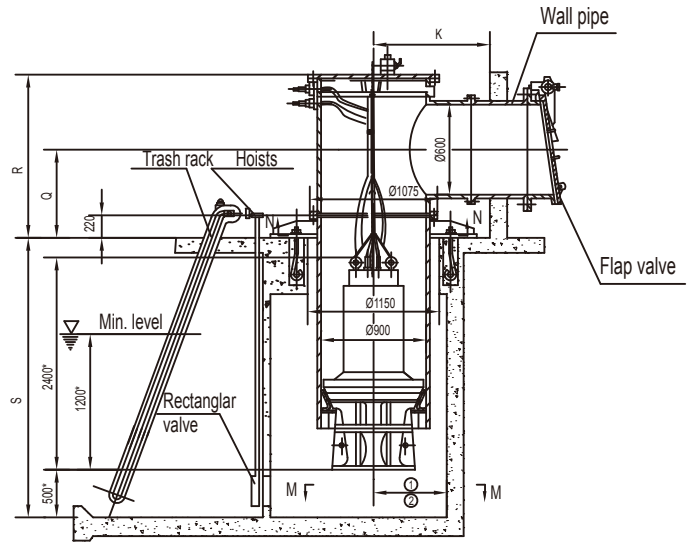
500HQ-40,500HQ-50,500HQ-40D,500HQ-50D

Outside installation dimensions drawing

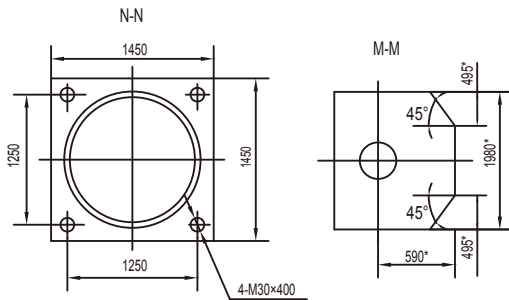
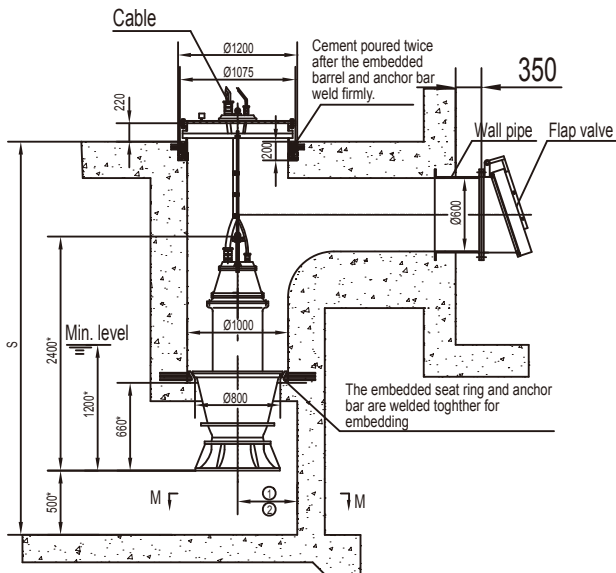
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

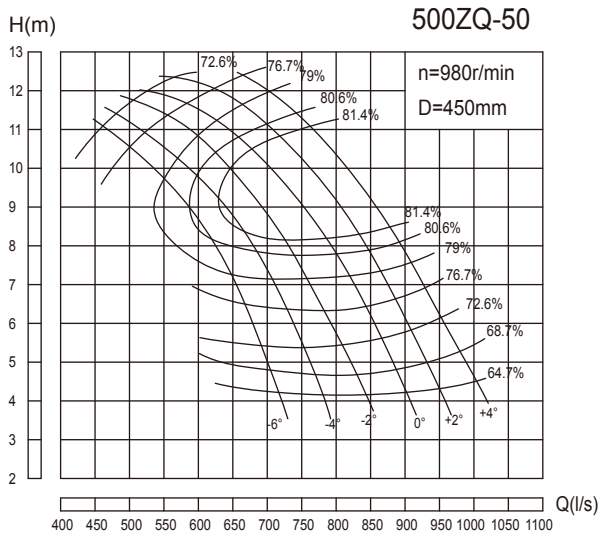


3. Installation with prefabricated concrete



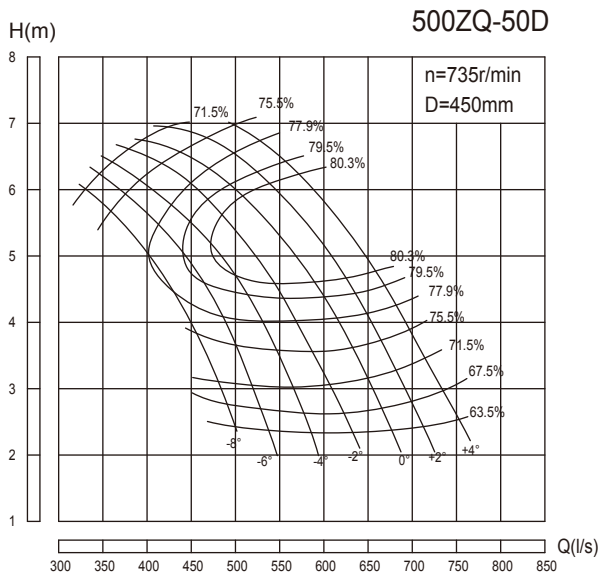
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



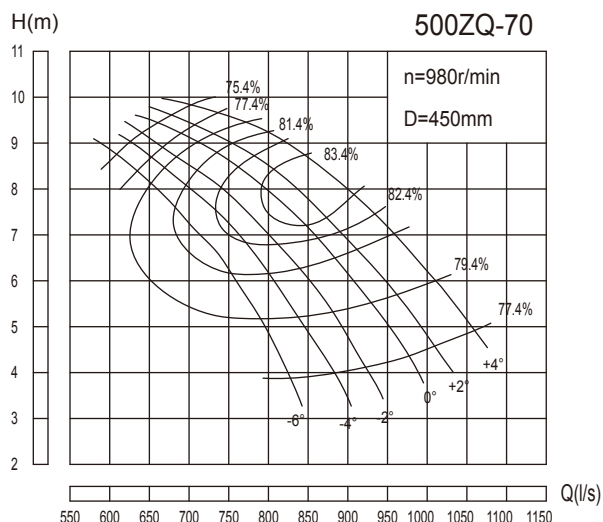
500ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 1677.2 | 465.9 | 11.04 | | 68.6 | | | |
| -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 | | |



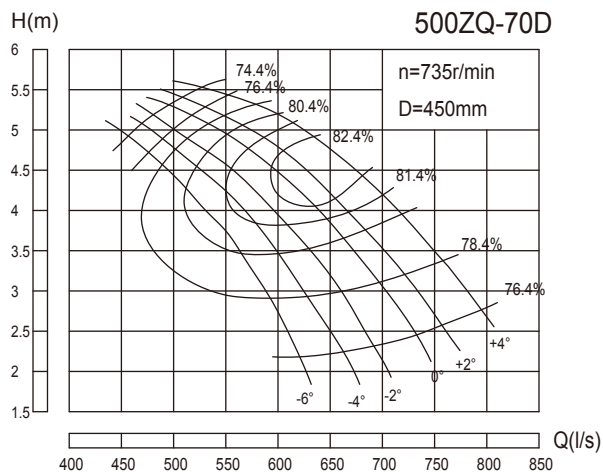
500ZQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



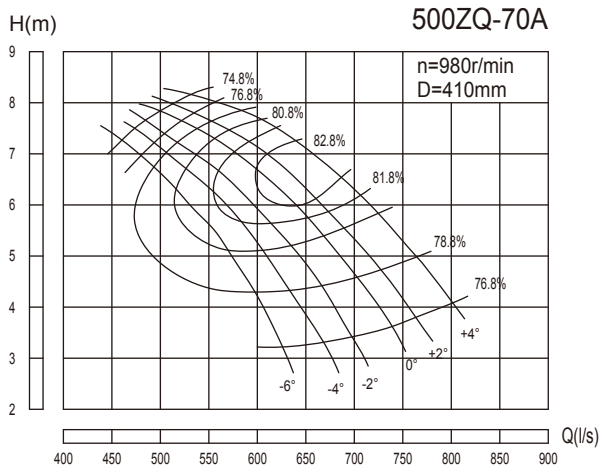
500ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 77.2 | | |
| | 2176.2 | 604.5 | 8.74 | | 67.1 | | 77.2 | | |
| -4° | 3161.5 | 878.2 | 3.96 | | 43.1 | 75 | 79.2 | | 450 |
| | 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 | | 450 |
| | 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 | | 450 |
| | 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 | 450 | | |
| | 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 | 450 | | |
| | 3137 | 871.4 | 8.43 | 84.6 | | 85.2 | | | |
| | 2537.3 | 704.8 | 9.87 | 88.4 | | 77.2 | | | |



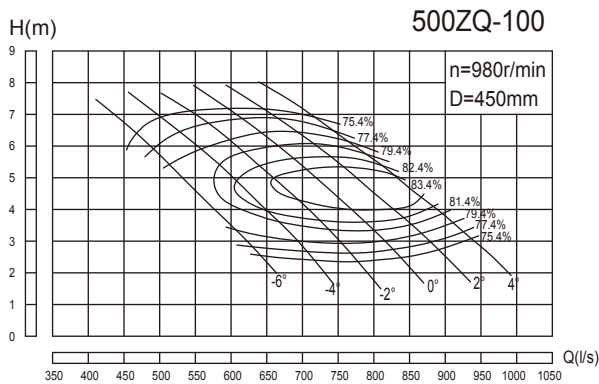
500ZQ-70D Performance parameter list

| Blade angle 放角 | Capacity | | Head H (m) | Speed (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------------|---------------------|-------|------------|---------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 450 |
| | 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 | | 450 |
| | 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 | | 450 |
| | 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 | 450 | | |
| | 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 | 450 | | |
| | 2352.6 | 653.5 | 4.74 | 36 | | 84.4 | | | |
| | 1903 | 528.6 | 5.55 | 37.7 | | 76.4 | | | |



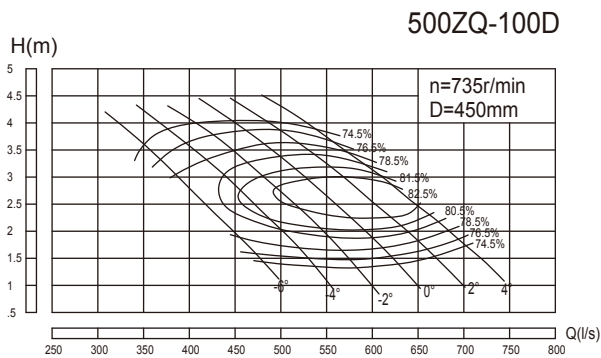
500ZQ-70A Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 2236 | 621.1 | 3.2 | 980 | 25.4 | | 76.8 | 410 |
| | 1987.6 | 552.1 | 5.63 | | 37.7 | 45 | 80.8 | |
| | 1645.9 | 457.2 | 7.25 | | 43.5 | | 74.8 | |
| -4° | 2391.1 | 664.2 | 3.28 | | 27.8 | | 76.8 | |
| | 2037.2 | 565.9 | 5.97 | | 40.4 | 55 | 82 | |
| | 1707.8 | 474.4 | 7.58 | | 47.2 | | 74.8 | |
| -2° | 2515.3 | 698.7 | 3.41 | | 30.4 | | 76.8 | |
| | 2142.7 | 595.2 | 6.23 | | 44.3 | 55 | 82.2 | |
| | 1745.3 | 484.8 | 7.68 | | 48.8 | | 74.8 | |
| 0° | 2639.5 | 733.2 | 3.67 | | 34.4 | | 76.8 | |
| | 2229.8 | 619.4 | 6.5 | | 47.4 | 55 | 83.3 | |
| | 1788.8 | 496.9 | 7.93 | | 51.7 | | 74.8 | |
| +2° | 2732.8 | 759.1 | 3.84 | 37.2 | | 76.8 | | |
| | 2285.6 | 634.9 | 6.57 | 48.9 | 55 | 83.7 | | |
| | 1807.2 | 502 | 8.02 | 52.8 | | 74.8 | | |
| +4° | 2869.6 | 797.1 | 4.18 | 42.6 | | 76.8 | | |
| | 2372.4 | 659 | 7 | 54.7 | 75 | 82.8 | | |
| | 1919.2 | 533.1 | 8.19 | 57.3 | | 74.8 | | |



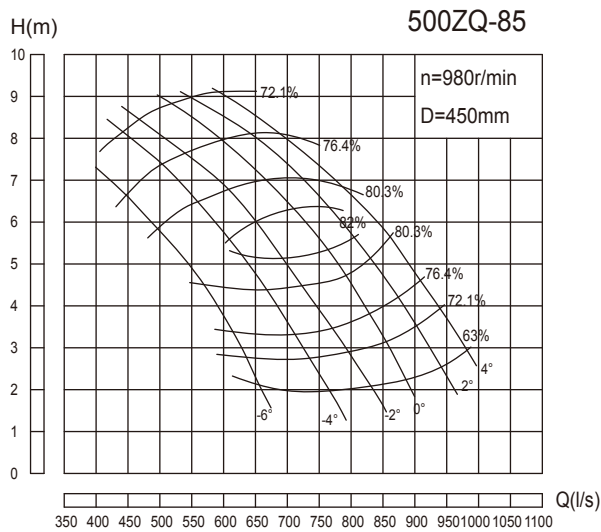
500ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 2184.5 | 606.8 | 3.29 | 980 | 24.7 | | 79.4 | 450 |
| | 2053.1 | 570.3 | 4.14 | | 28.6 | 37 | 81 | |
| | 1847.5 | 513.2 | 5.45 | | 34.6 | | 79.4 | |
| -4° | 2496.2 | 693.4 | 3.01 | | 25.8 | | 79.4 | |
| | 2299.3 | 638.7 | 4.21 | | 32 | 45 | 82.5 | |
| | 2007.7 | 557.7 | 5.91 | | 40.7 | | 79.4 | |
| -2° | 2718 | 755 | 2.93 | | 27.3 | | 79.4 | |
| | 2504.5 | 695.7 | 4.33 | | 35.6 | 55 | 83.1 | |
| | 2151.4 | 597.6 | 6.2 | | 45.8 | | 79.4 | |
| 0° | 2931.5 | 814.3 | 3.02 | | 30.4 | | 79.4 | |
| | 2709.7 | 752.7 | 4.32 | | 38.2 | 55 | 83.4 | |
| | 2311.6 | 642.1 | 6.42 | | 50.9 | | 79.4 | |
| +2° | 3120.5 | 866.8 | 3.26 | 34.9 | | 79.4 | | |
| | 2874.2 | 798.4 | 4.55 | 42.5 | 75 | 83.9 | | |
| | 2496.2 | 693.4 | 6.44 | 55.2 | | 79.4 | | |
| +4° | 3284.6 | 912.4 | 3.58 | 40.4 | | 79.4 | | |
| | 3079.4 | 855.4 | 4.57 | 45.9 | 75 | 83.6 | | |
| | 2750.8 | 764.1 | 6.17 | 58.2 | | 79.4 | | |



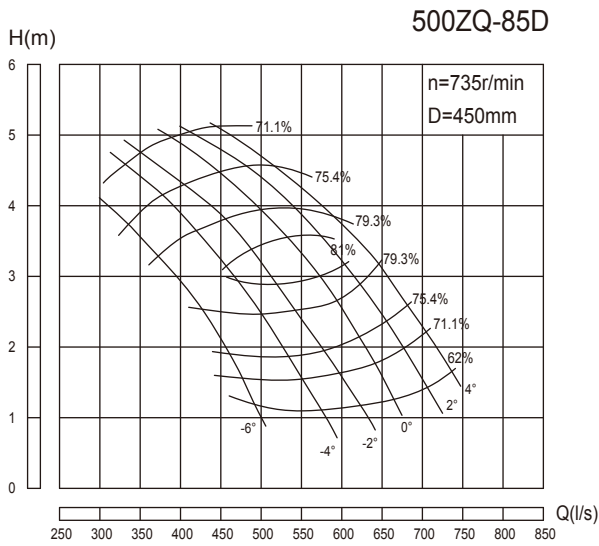
500ZQ-100D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 1638.4 | 455.1 | 1.85 | 735 | 10.5 | 18.5 | 78.5 | 450 |
| | 1539.7 | 427.7 | 2.33 | | 12.2 | | 80.1 | |
| | 1385.6 | 384.9 | 3.06 | | 14.7 | | 78.5 | |
| -4° | 1872.4 | 520.1 | 1.69 | | 11 | 22 | 78.5 | |
| | 1724.4 | 479 | 2.37 | | 13.6 | | 81.6 | |
| | 1505.9 | 418.3 | 3.32 | | 17.4 | | 78.5 | |
| -2° | 2038.7 | 566.3 | 1.65 | | 11.7 | 22 | 78.5 | |
| | 1878.5 | 521.8 | 2.43 | | 15.1 | | 82.2 | |
| | 1613.5 | 448.2 | 3.49 | | 19.5 | | 78.5 | |
| 0° | 2198.5 | 610.7 | 1.7 | | 13 | 30 | 78.5 | |
| | 2032.6 | 564.6 | 2.43 | | 16.3 | | 82.5 | |
| | 1733.8 | 481.6 | 3.61 | | 21.7 | | 78.5 | |
| +2° | 2340.4 | 650.1 | 1.83 | 14.9 | 30 | 78.5 | | |
| | 2155.7 | 598.8 | 2.56 | 18.1 | | 83 | | |
| | 1872.4 | 520.1 | 3.62 | 23.5 | | 78.5 | | |
| +4° | 2463.5 | 684.3 | 2.01 | 17.2 | 30 | 78.5 | | |
| | 2309.4 | 641.5 | 2.57 | 19.6 | | 82.7 | | |
| | 2063.2 | 573.1 | 3.47 | 24.9 | | 78.5 | | |



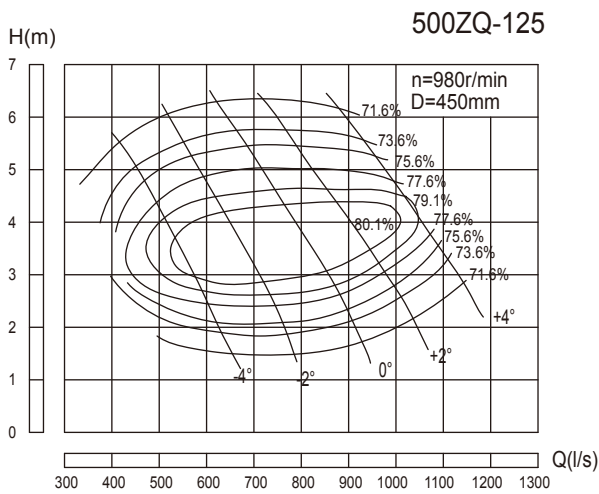
500ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 2225.5 | 618.2 | 2.87 | 980 | 24.1 | 45 | 72.2 | 450 |
| | 2036.5 | 565.7 | 4.36 | | 29.8 | | 81.2 | |
| | 1437.1 | 399.2 | 7.35 | | 39.9 | | 72.2 | |
| -4° | 2578.3 | 716.2 | 2.77 | | 27 | 55 | 72.2 | |
| | 2200.7 | 611.3 | 5.34 | | 39 | | 82.2 | |
| | 1576.8 | 438 | 7.8 | | 46.4 | | 72.2 | |
| -2° | 2898.7 | 805.2 | 2.87 | | 31.4 | 75 | 72.2 | |
| | 2504.5 | 695.7 | 5.24 | | 43.5 | | 82.2 | |
| | 1732.7 | 481.3 | 8.17 | | 53.4 | | 72.2 | |
| 0° | 3120.5 | 866.8 | 3.13 | | 36.9 | 75 | 72.2 | |
| | 2742.8 | 761.9 | 5.44 | | 48.9 | | 83.2 | |
| | 1905.1 | 529.2 | 8.48 | | 61 | | 72.2 | |
| +2° | 3334 | 926.1 | 3.6 | 45.3 | 75 | 72.2 | | |
| | 2931.5 | 814.3 | 5.81 | 56.5 | | 82.2 | | |
| | 2077.6 | 577.1 | 8.73 | 68.5 | | 72.2 | | |
| +4° | 3547.4 | 985.4 | 4.04 | 54.1 | 90 | 72.2 | | |
| | 2997.4 | 832.6 | 6.57 | 66.1 | | 81.2 | | |
| | 2266.6 | 629.6 | 8.72 | 74.6 | | 72.2 | | |



500ZQ-85D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |

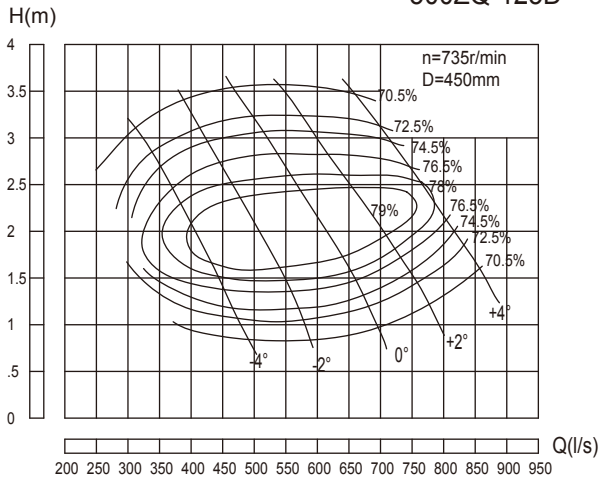


500ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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

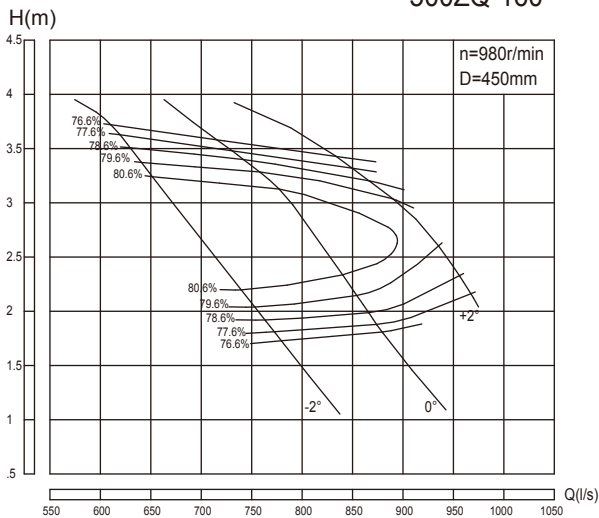
500ZQ-125D Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 list

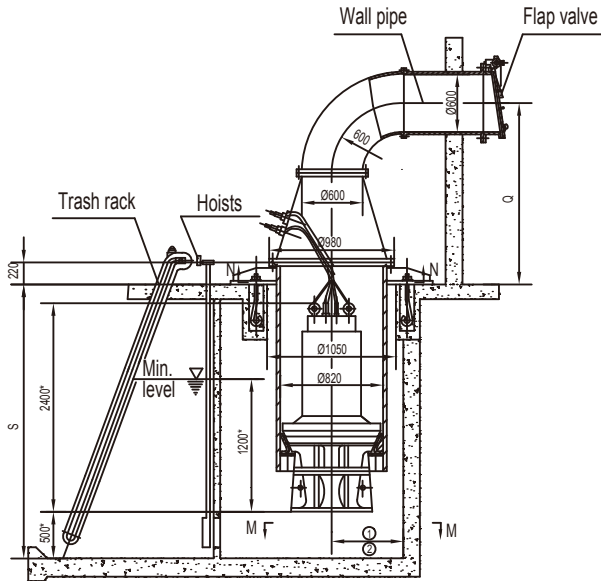


| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | 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 | |

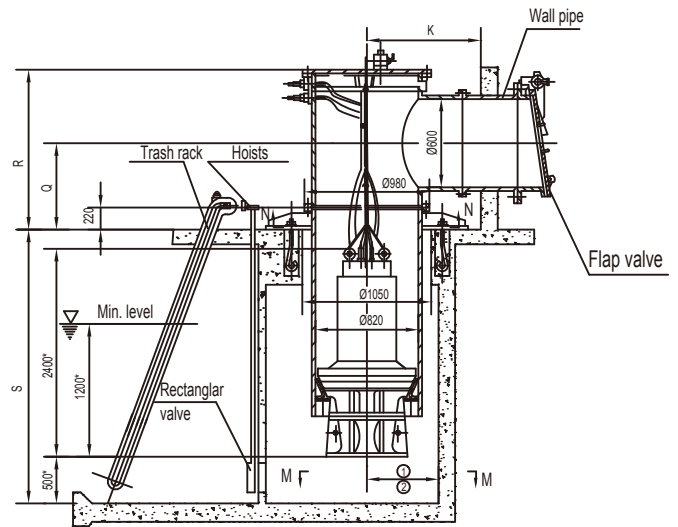
500ZQ-50,500ZQ-70,500ZQ-70A,500ZQ-85,500ZQ-100,500ZQ-125,500ZQ-160
500ZQ-50D,500ZQ-70D,500ZQ-85D,500ZQ-100D,500ZQ-125D

Outside installation dimensions drawing

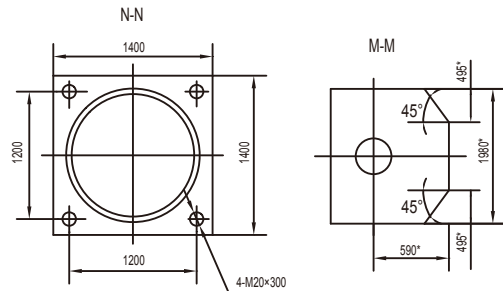
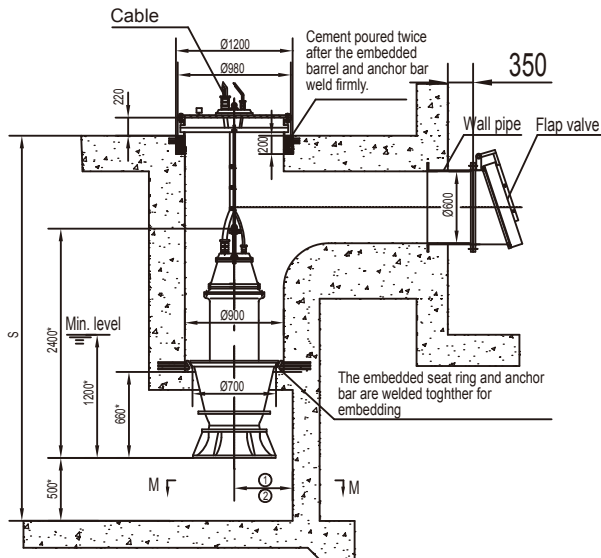
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

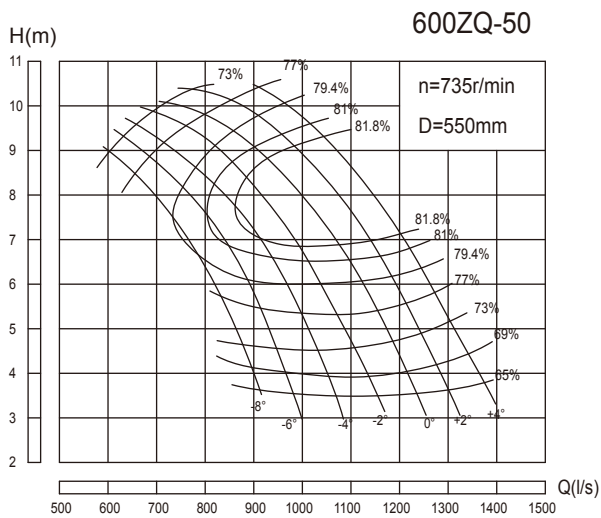


3. Installation with prefabricated concrete



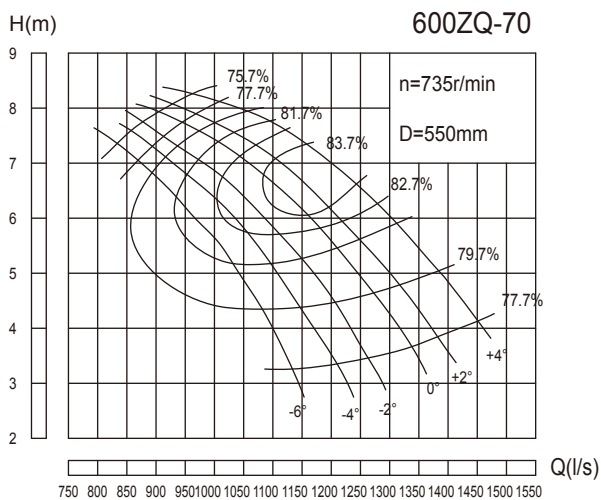
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



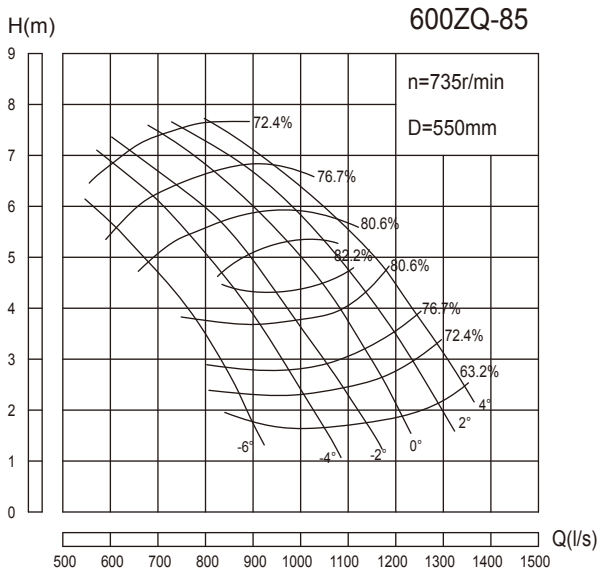
600ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



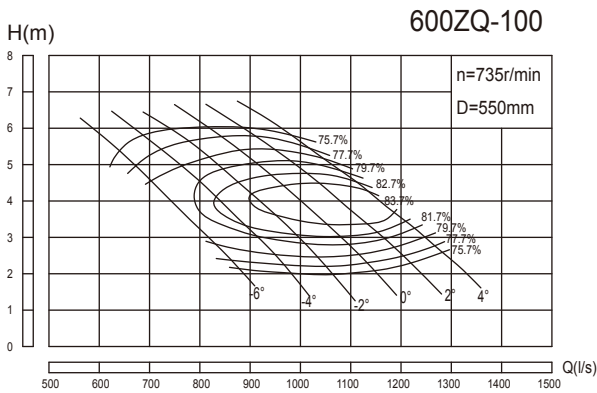
600ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



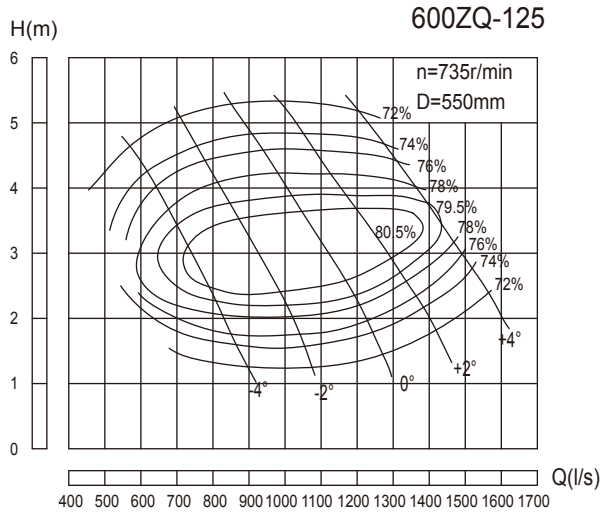
600ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 550 | | |
| | 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 | | | 550 | |
| | 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 | | | | 550 |
| | 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 | 550 | | | | |
| | 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 | | 550 | | | |
| | 4104.4 | 1140.1 | 5.52 | 75.8 | | 81.5 | | | | | |
| | 3103.6 | 862.1 | 7.32 | 85.4 | | 72.5 | | | | | |



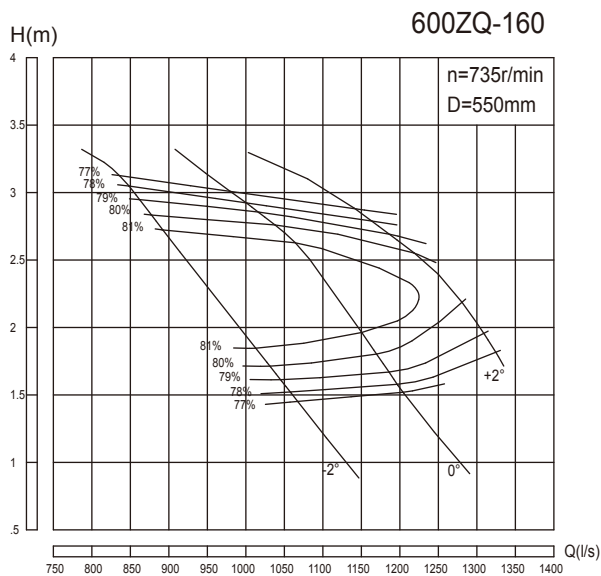
600ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 550 | | |
| | 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 | | | 550 | |
| | 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 | | | | 550 |
| | 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 | 550 | | | | |
| | 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 | | 550 | | | |
| | 4216.7 | 1171.3 | 3.84 | 52.5 | | 84 | | | | | |
| | 3767 | 1046.4 | 5.18 | 66.6 | | 79.8 | | | | | |



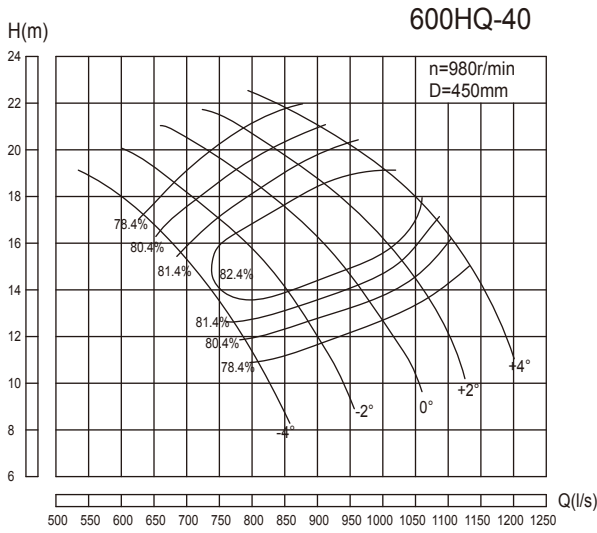
600ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 550 |
| | 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 | | 550 |
| | 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 | | 550 |
| | 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 | 550 | | |
| | 5138.6 | 1427.4 | 3.42 | 59.9 | | 79.9 | | | |
| | 4587.8 | 1274.4 | 4.67 | 78.8 | | 74.1 | | | |



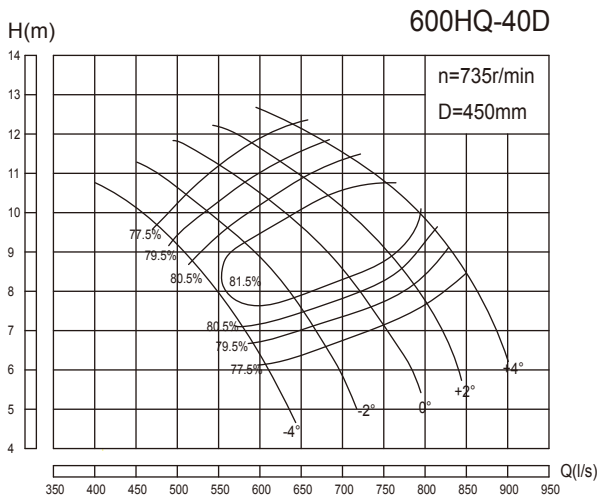
600ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 550 |
| | 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 | | 550 |
| | 4520.5 | 1255.7 | 2.33 | | 35.9 | | 80 | | |
| | 4187.9 | 1163.3 | 2.79 | | 40.8 | | 78 | | |



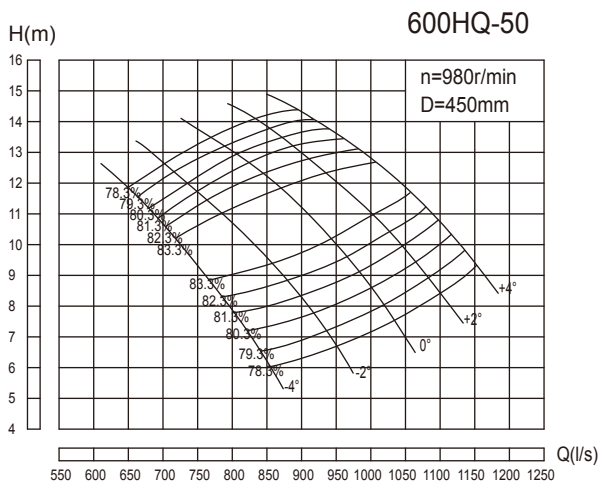
600HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 2291 | 636.4 | 17.37 | | 138.3 | | | |
| -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 | | |



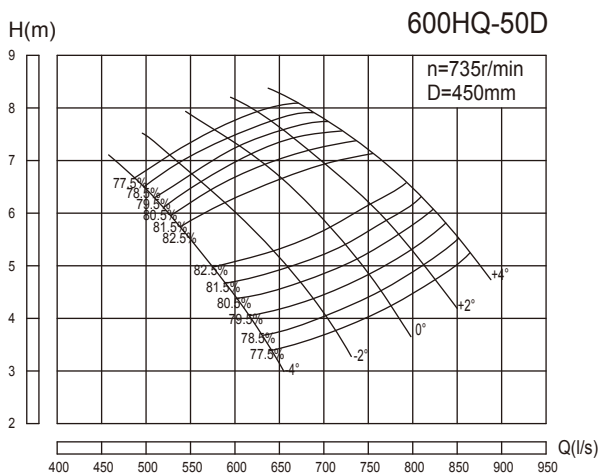
600HQ-40D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 2373.1 | 659.2 | 11.56 | | 94.2 | | | |
| -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 | | |



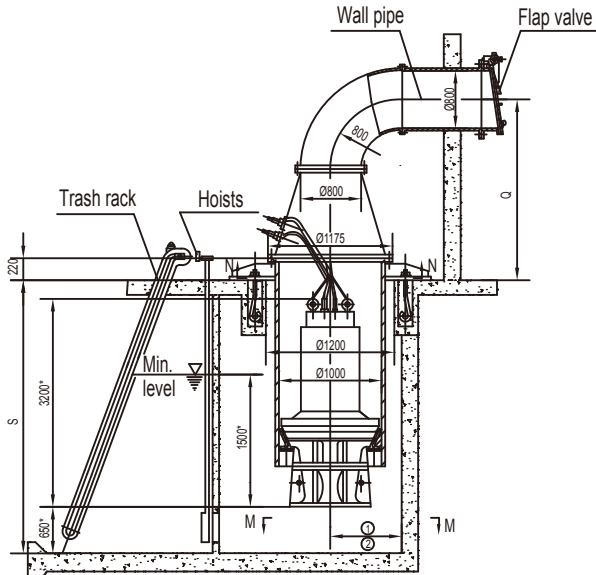
600HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |

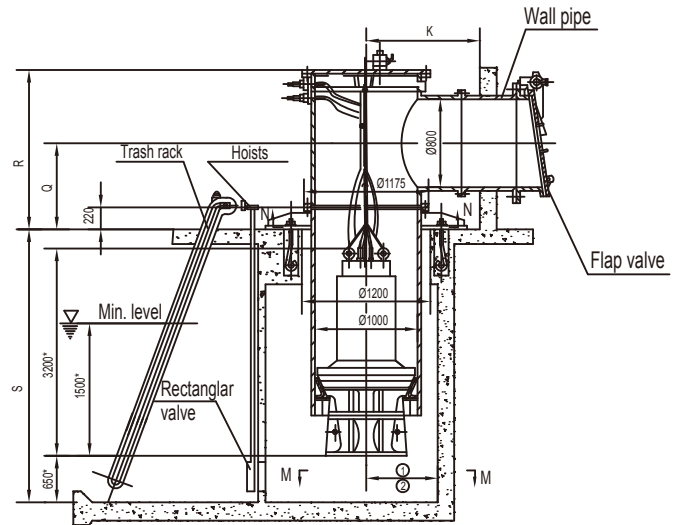
600ZQ-50,600ZQ-70,600ZQ-85,600ZQ-100,600ZQ-125,600ZQ-160
600HQ-40,600HQ-40D,600HQ-50,600HQ-50D

Outside installation dimensions drawing

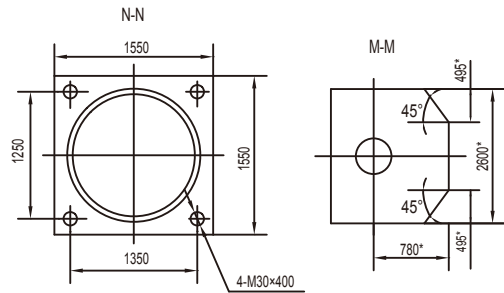
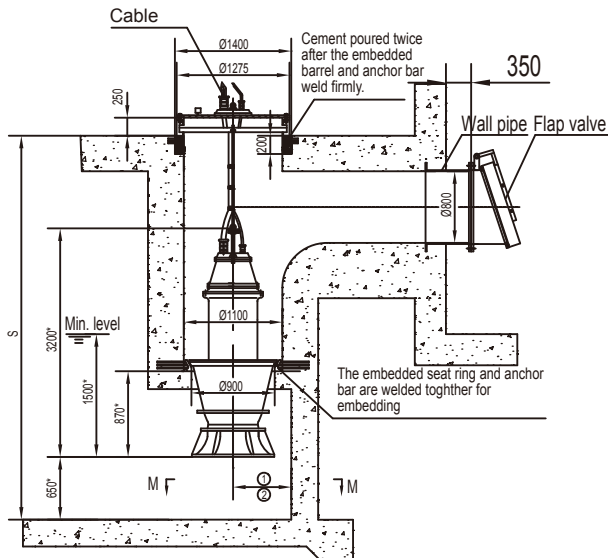
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

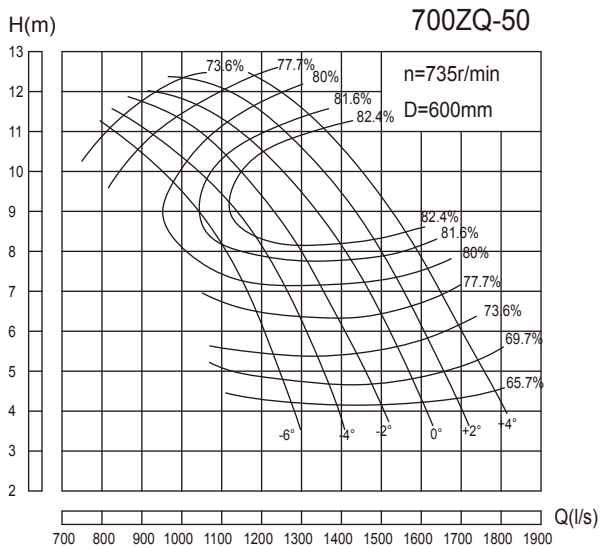


3. Installation with prefabricated concrete



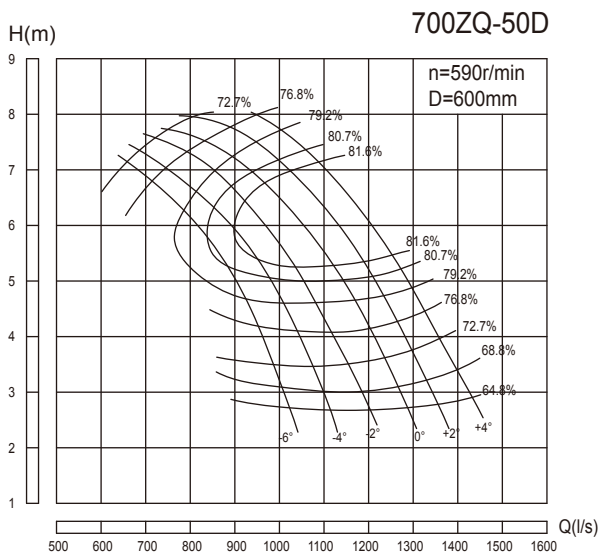
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



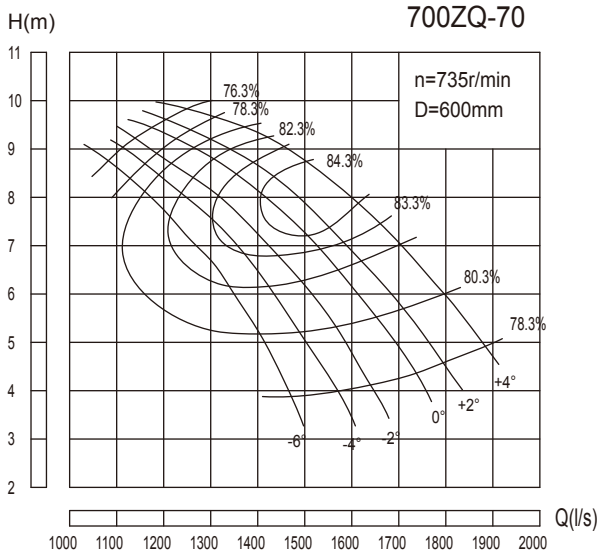
700ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 4463.3 | 1239.8 | 4.8 | 735 | 83.8 | | 69.7 | 600 |
| | 3766.3 | 1046.2 | 8.77 | | 109.9 | 132 | 81.9 | |
| | 2981.9 | 828.3 | 11.04 | | 120.3 | | 74.6 | |
| -4° | 4847 | 1346.4 | 4.71 | | 89.3 | | 69.7 | |
| | 4095 | 1137.5 | 9.04 | | 121.4 | 160 | 83.1 | |
| | 3076.9 | 854.7 | 11.56 | | 129.9 | | 74.6 | |
| -2° | 5232.6 | 1453.5 | 4.71 | | 96.4 | | 69.7 | |
| | 4218.5 | 1171.8 | 9.31 | | 128.8 | 160 | 83.1 | |
| | 3228.8 | 896.9 | 11.88 | | 140.1 | | 74.6 | |
| 0° | 5650.6 | 1569.6 | 4.93 | | 108.9 | | 69.7 | |
| | 4685.4 | 1301.5 | 9.35 | | 143.3 | 160 | 83.3 | |
| | 3741.5 | 1039.3 | 11.72 | | 153.8 | | 77.7 | |
| +2° | 5992.2 | 1664.5 | 5.04 | 118.1 | | 69.7 | | |
| | 4932.4 | 1370.1 | 9.59 | 155.1 | 185 | 83.1 | | |
| | 4026.6 | 1118.5 | 12.11 | 171 | | 77.7 | | |
| +4° | 6220.1 | 1727.8 | 5.47 | 133 | | 69.7 | | |
| | 5186.9 | 1440.8 | 9.85 | 167.5 | 200 | 83.1 | | |
| | 4216.3 | 1171.2 | 12.33 | 182.3 | | 77.7 | | |



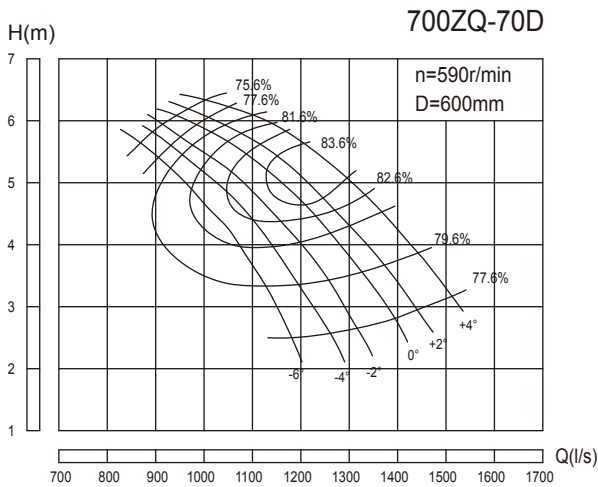
700ZQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 3582.7 | 995.2 | 3.09 | 590 | 43.8 | | 68.9 | 600 |
| | 3023.3 | 839.8 | 5.65 | | 57.4 | 75 | 81.1 | |
| | 2393.6 | 664.9 | 7.12 | | 62.9 | | 73.8 | |
| -4° | 3890.9 | 1080.8 | 3.03 | | 46.6 | | 68.9 | |
| | 3287.2 | 913.1 | 5.82 | | 63.3 | 75 | 82.3 | |
| | 2470 | 686.1 | 7.45 | | 67.9 | | 73.8 | |
| -2° | 4200.1 | 1166.7 | 3.03 | | 50.3 | | 68.9 | |
| | 3386.2 | 940.6 | 6 | | 67.3 | 75 | 82.3 | |
| | 2591.6 | 719.9 | 7.66 | | 73.3 | | 73.8 | |
| 0° | 4535.6 | 1259.9 | 3.18 | | 57 | | 68.9 | |
| | 3761.3 | 1044.8 | 6.02 | | 74.8 | 90 | 82.5 | |
| | 3003.5 | 834.3 | 7.55 | | 80.4 | | 76.9 | |
| +2° | 4810 | 1336.1 | 3.25 | 61.8 | | 68.9 | | |
| | 3959.3 | 1099.8 | 6.18 | 81 | 110 | 82.3 | | |
| | 3232.1 | 897.8 | 7.8 | 89.3 | | 76.9 | | |
| +4° | 4993.2 | 1387 | 3.53 | 69.7 | | 68.9 | | |
| | 4163.8 | 1156.6 | 6.35 | 87.5 | 110 | 82.3 | | |
| | 3384.7 | 940.2 | 7.95 | 95.4 | | 76.9 | | |



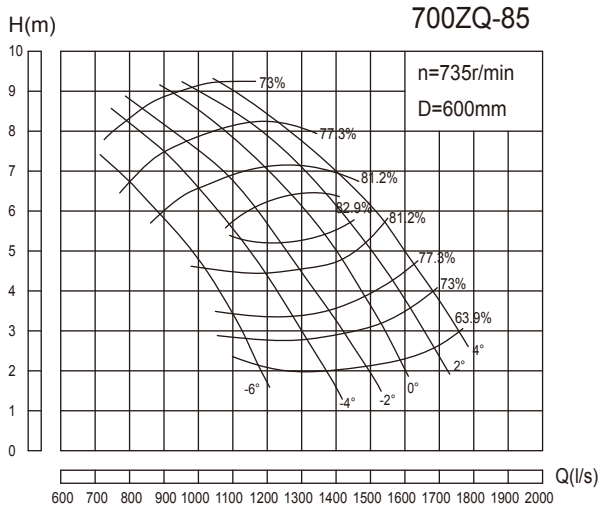
700ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 600 | | |
| | 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 | | | 600 | |
| | 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 | | | | 600 |
| | 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 | 600 | | | | |
| | 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 | | 600 | | | |
| | 5576.8 | 1549.1 | 8.43 | 152 | | 84.3 | | | | | |
| | 4510.8 | 1253 | 9.87 | 159 | | 76.3 | | | | | |



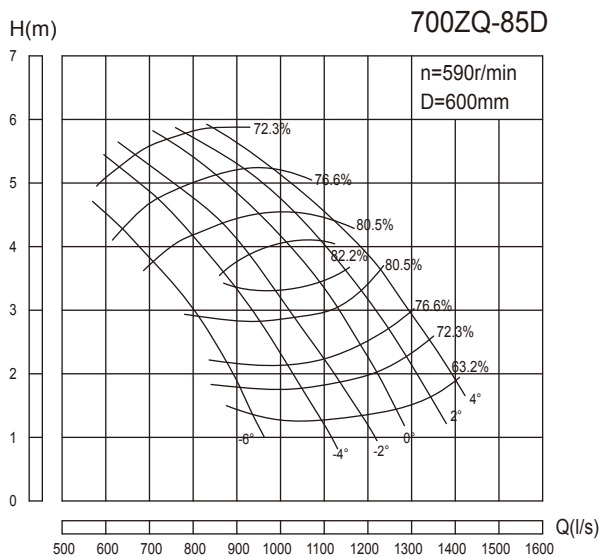
700ZQ-70D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 600 | | |
| | 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 | | | 600 | |
| | 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 | | | | 600 |
| | 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 | 600 | | | | |
| | 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 | | 600 | | | |
| | 4476.6 | 1243.5 | 5.43 | 79.2 | | 83.6 | | | | | |
| | 3620.9 | 1005.8 | 6.36 | 83 | | 75.6 | | | | | |



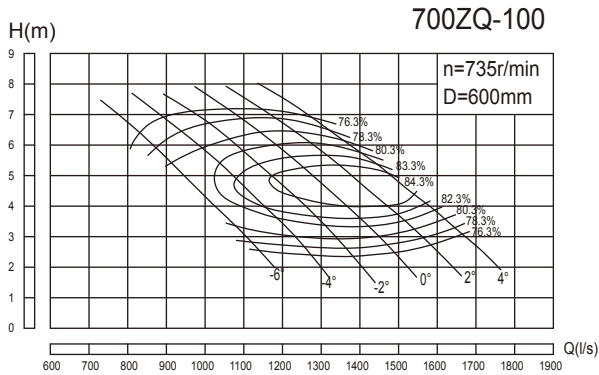
700ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



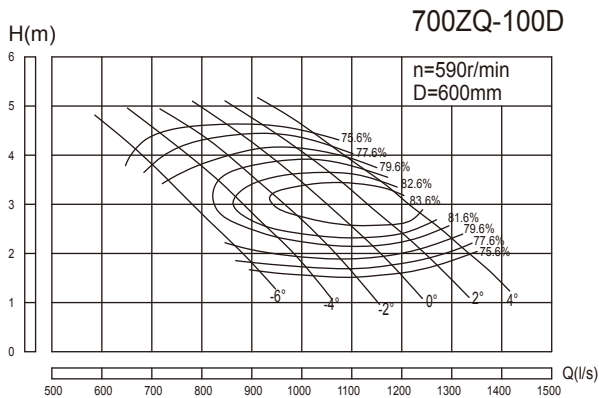
700ZQ-85D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



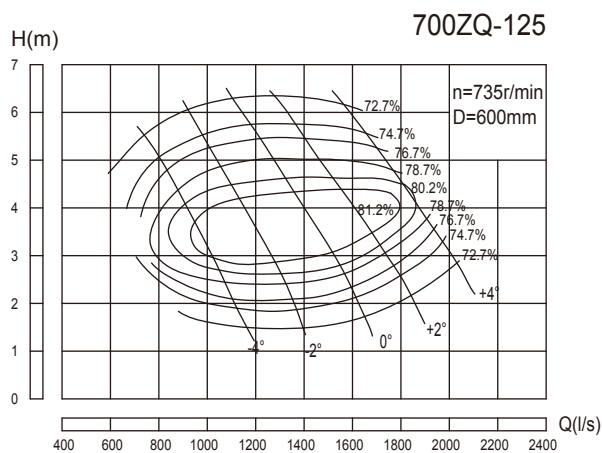
700ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 3284.6 | 912.4 | 5.45 | | 60.7 | | | |
| -4° | 4438.1 | 1232.8 | 3.01 | | 45.3 | 75 | 80.3 | |
| | 4087.4 | 1135.4 | 4.21 | | 56.2 | | | |
| | 3569.4 | 991.5 | 5.91 | | 71.6 | | | |
| -2° | 4832.3 | 1342.3 | 2.93 | | 48 | 90 | 80.3 | |
| | 4452.5 | 1236.8 | 4.33 | | 62.5 | | | |
| | 3825 | 1062.5 | 6.2 | | 80.5 | | | |
| 0° | 5211.7 | 1447.7 | 3.02 | | 53.4 | 110 | 80.3 | |
| | 4817.5 | 1338.2 | 4.32 | | 67.3 | | | |
| | 4109.4 | 1141.5 | 6.42 | | 89.5 | | | |
| +2° | 5547.6 | 1541 | 3.26 | 61.4 | 110 | 80.3 | | |
| | 5109.5 | 1419.3 | 4.55 | 74.7 | | | | |
| | 4438.1 | 1232.8 | 6.44 | 97 | | | | |
| +4° | 5839.6 | 1622.1 | 3.58 | 70.9 | 110 | 80.3 | | |
| | 5474.5 | 1520.7 | 4.57 | 80.7 | | | | |
| | 4890.6 | 1358.5 | 6.17 | 102.4 | | | | |



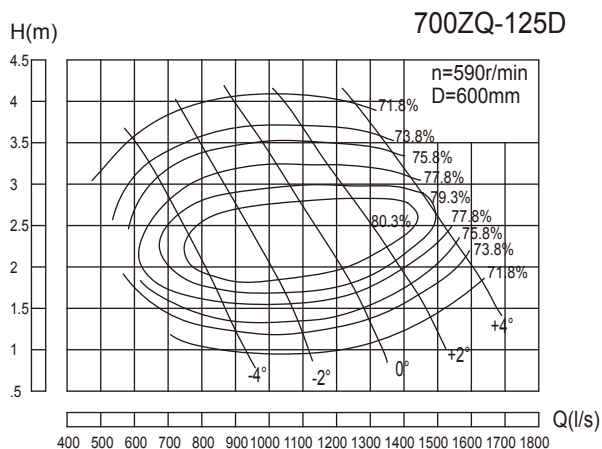
700ZQ-100D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 2636.6 | 732.4 | 3.51 | | 31.7 | | | |
| -4° | 3562.6 | 989.6 | 1.94 | | 23.7 | 45 | 79.6 | |
| | 3281 | 911.4 | 2.72 | | 29.4 | | | |
| | 2865.2 | 795.9 | 3.81 | | 37.4 | | | |
| -2° | 3879 | 1077.5 | 1.89 | | 25.1 | 45 | 79.6 | |
| | 3574.1 | 992.8 | 2.79 | | 32.6 | | | |
| | 3070.4 | 852.9 | 3.99 | | 41.9 | | | |
| 0° | 4183.6 | 1162.1 | 1.95 | | 27.9 | 55 | 79.6 | |
| | 3867.1 | 1074.2 | 2.78 | | 35 | | | |
| | 3298.7 | 916.3 | 4.14 | | 46.8 | | | |
| +2° | 4453.2 | 1237 | 2.1 | 32 | 55 | 79.6 | | |
| | 4101.5 | 1139.3 | 2.93 | 38.9 | | | | |
| | 3562.6 | 989.6 | 4.15 | 50.6 | | | | |
| +4° | 4687.6 | 1302.1 | 2.3 | 36.9 | 55 | 79.6 | | |
| | 4394.5 | 1220.7 | 2.95 | 42.2 | | | | |
| | 3925.8 | 1090.5 | 3.97 | 53.4 | | | | |



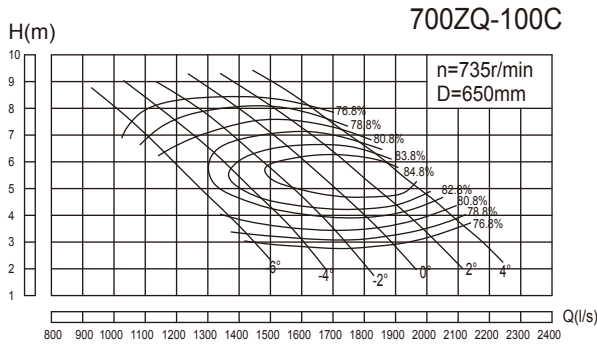
700ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -4° | 3970.8 | 1103 | 2.1 | 735 | 29.6 | 55 | 76.7 | 600 |
| | 3620.5 | 1005.7 | 3.11 | | 37.8 | | 81.2 | |
| | 2890.4 | 802.9 | 5.07 | | 53.5 | | 74.7 | |
| -2° | 4861.4 | 1350.4 | 2.09 | | 36.1 | 75 | 76.7 | |
| | 4481.6 | 1244.9 | 3.23 | | 48.3 | | 81.6 | |
| | 3533 | 981.4 | 5.49 | | 70.8 | | 74.7 | |
| 0° | 5737.3 | 1593.7 | 2.34 | | 47.7 | 110 | 76.7 | |
| | 5284.8 | 1468 | 3.56 | | 62.4 | | 82.2 | |
| | 4248.4 | 1180.1 | 5.76 | | 89.3 | | 74.7 | |
| +2° | 6379.6 | 1772.1 | 2.77 | | 62.8 | 110 | 76.7 | |
| | 5868.7 | 1630.2 | 3.68 | | 72.1 | | 81.6 | |
| | 4919.8 | 1366.6 | 5.76 | | 103.4 | | 74.7 | |
| +4° | 6963.5 | 1934.3 | 3.56 | 88.1 | 132 | 76.7 | | |
| | 6671.5 | 1853.2 | 4.07 | 91.9 | | 80.5 | | |
| | 5956.2 | 1654.5 | 5.56 | 120.8 | | 74.7 | | |



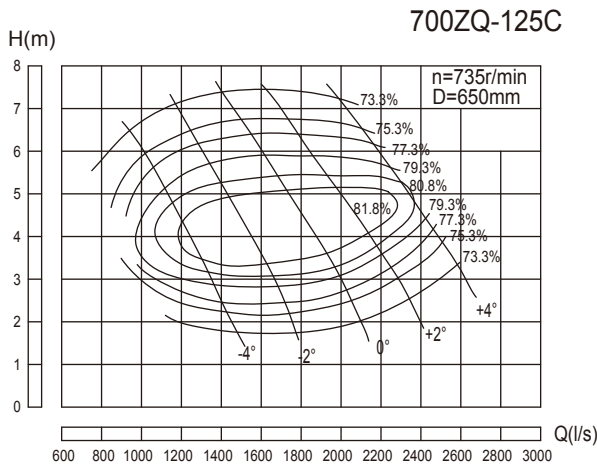
700ZQ-125D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -4° | 3187.4 | 885.4 | 1.35 | 590 | 15.4 | 30 | 75.9 | 600 |
| | 2906.3 | 807.3 | 2.01 | | 19.8 | | 80.4 | |
| | 2320.2 | 644.5 | 3.26 | | 27.9 | | 73.9 | |
| -2° | 3902.4 | 1084 | 1.34 | | 18.8 | 45 | 75.9 | |
| | 3597.5 | 999.3 | 2.08 | | 25.2 | | 80.8 | |
| | 2836.1 | 787.8 | 3.54 | | 37 | | 73.9 | |
| 0° | 4605.5 | 1279.3 | 1.51 | | 25 | 55 | 75.9 | |
| | 4242.2 | 1178.4 | 2.29 | | 32.5 | | 81.4 | |
| | 3410.3 | 947.3 | 3.71 | | 46.7 | | 73.9 | |
| +2° | 5121 | 1422.5 | 1.79 | | 32.9 | 75 | 75.9 | |
| | 4711 | 1308.6 | 2.37 | | 37.7 | | 80.8 | |
| | 3949.2 | 1097 | 3.71 | | 54 | | 73.9 | |
| +4° | 5589.7 | 1552.7 | 2.29 | 46 | 75 | 75.9 | | |
| | 5355.4 | 1487.6 | 2.62 | 48 | | 79.7 | | |
| | 4781.2 | 1328.1 | 3.58 | 63.1 | | 73.9 | | |



700ZQ-100C Performance parameter list

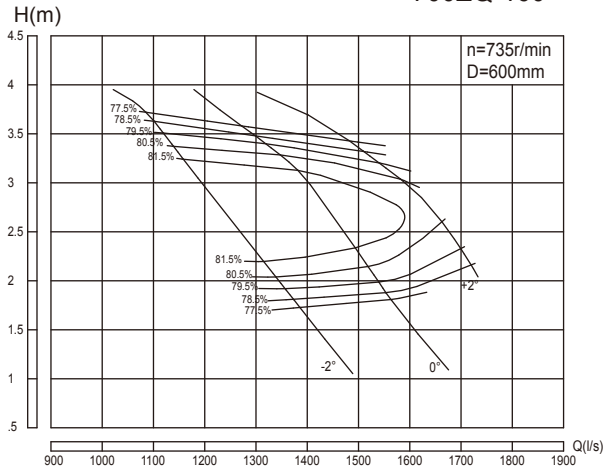
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /h) | (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 | | 650 |
| | 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 | | 650 |
| | 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 | | 650 |
| | 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 | 650 | | |
| | 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 | 650 | | |
| | 6960.2 | 1933.4 | 5.37 | 119.8 | | 85 | | | |
| | 6217.9 | 1727.2 | 7.24 | 151.8 | | 80.8 | | | |



700ZQ-125C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 650 |
| | 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 | | 650 |
| | 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 | | 650 |
| | 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 | 650 | | |
| | 8482.3 | 2356.2 | 4.78 | 136.2 | | 81.1 | | | |
| | 7573 | 2103.6 | 6.53 | 179 | | 75.3 | | | |

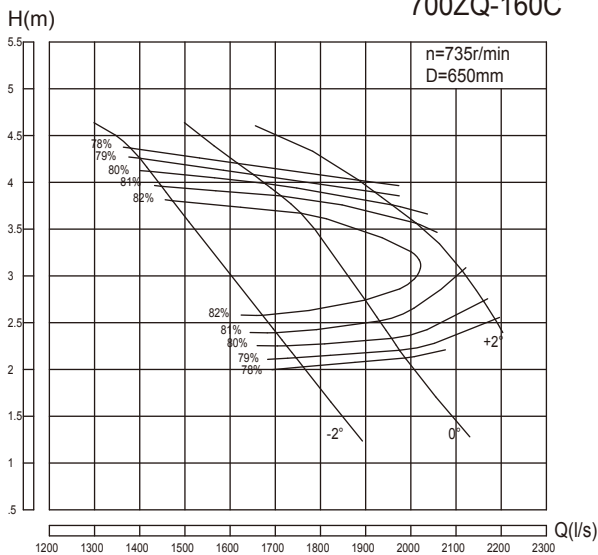
700ZQ-160



700ZQ-160 Performance parameter list

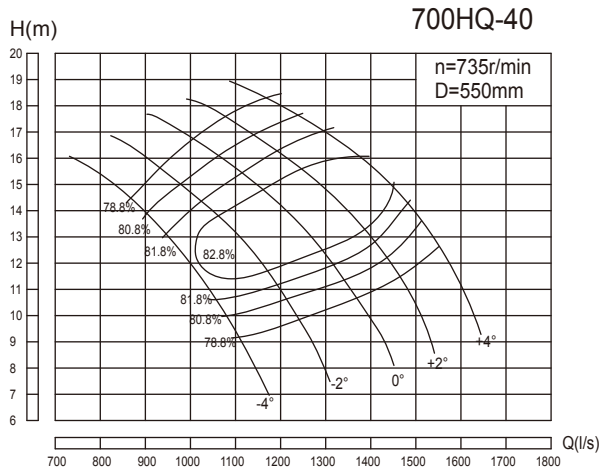
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -2° | 4943.5 | 1373.2 | 1.81 | 735 | 31 | 55 | 78.6 | 600 |
| | 4525.6 | 1257.1 | 2.56 | | 38 | 55 | 83.1 | |
| | 3963.2 | 1100.9 | 3.63 | | 49.9 | 55 | 78.6 | |
| 0° | 5587.2 | 1552 | 1.87 | | 36.2 | 75 | 78.6 | |
| | 5255.6 | 1459.9 | 2.57 | | 44.8 | 75 | 82.1 | |
| | 4681.4 | 1300.4 | 3.47 | | 56.3 | 75 | 78.6 | |
| +2° | 6191.3 | 1719.8 | 2.16 | | 46.4 | 75 | 78.6 | |
| | 5868.7 | 1630.2 | 2.77 | | 55 | 75 | 80.6 | |
| | 5437.1 | 1510.3 | 3.32 | | 62.6 | 75 | 78.6 | |

700ZQ-160C

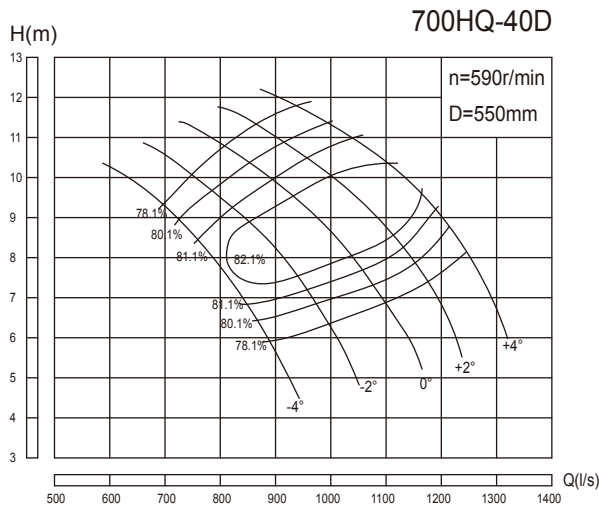


700ZQ-160C Performance parameter list

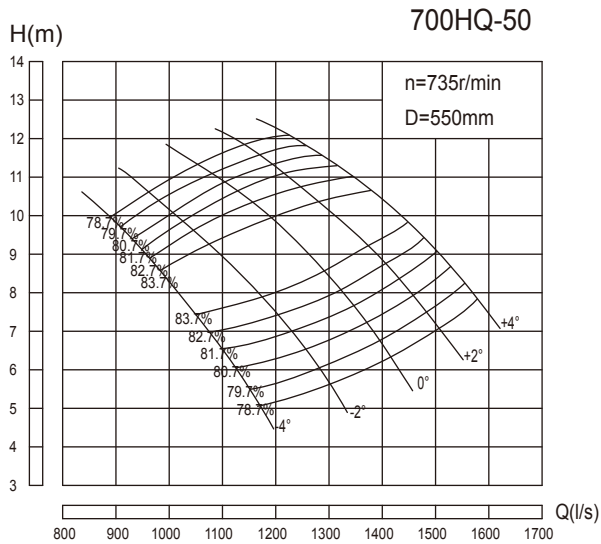
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) |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


700HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 550 | | |
| | 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 | | | 550 | |
| | 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 | | | | 550 |
| | 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 | 550 | | | | |
| | 5060.2 | 1405.6 | 15.72 | 260.2 | | 83.3 | | | | | |
| | 4216.7 | 1171.3 | 18.46 | 269.2 | | 78.8 | | | | | |

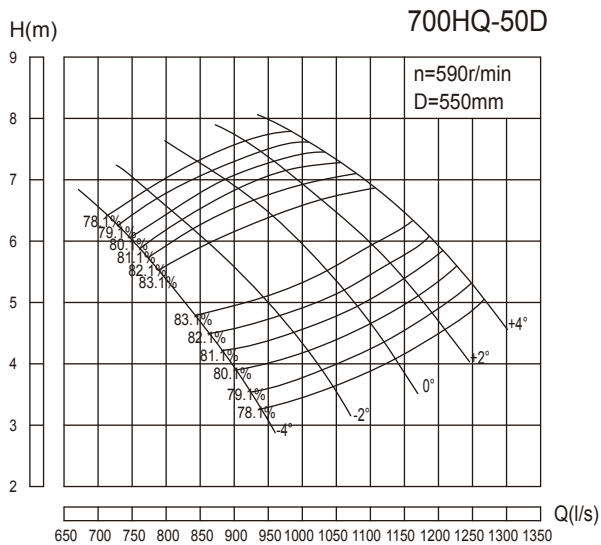

Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 550 | | |
| | 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 | | | 550 | |
| | 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 | | | | 550 |
| | 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 | 550 | | | | |
| | 4061.9 | 1128.3 | 10.13 | 135.7 | | 82.6 | | | | | |
| | 3384.7 | 940.2 | 11.9 | 140.5 | | 78.1 | | | | | |



700HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 3249.7 | 902.7 | 9.72 | | 107.9 | | | |
| -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 | |



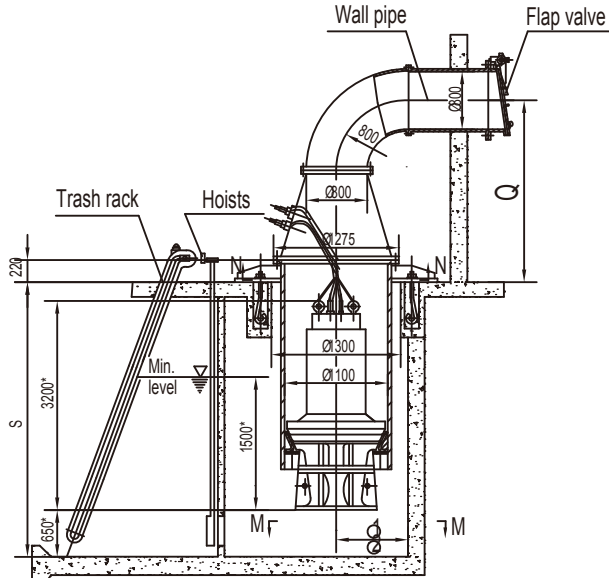
700HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |

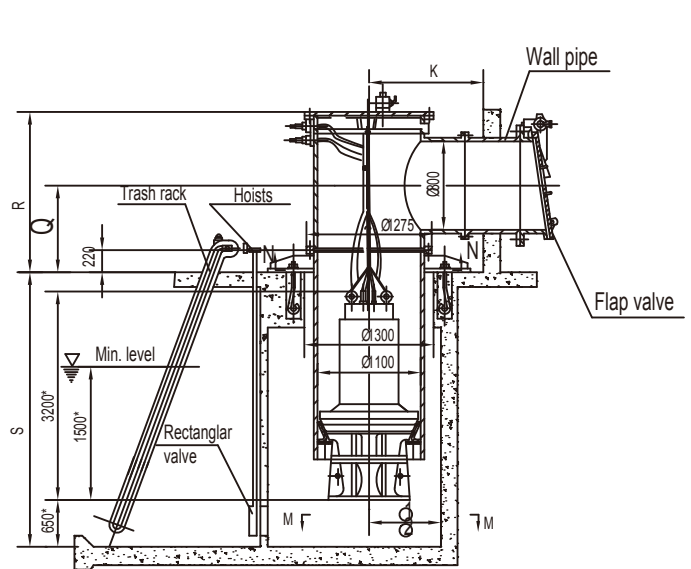
700ZQ-50,700ZQ-70,700ZQ-85,700ZQ-100,700ZQ-125,700ZQ-160
 700ZQ-50D,700ZQ-70D,700ZQ-85D,700ZQ-100D,700ZQ-125D
 700ZQ-100C,700ZQ-125C,700ZQ-160C
 700HQ-40,700HQ-40D,700HQ-50,700HQ-50D

Outside installation dimensions drawing

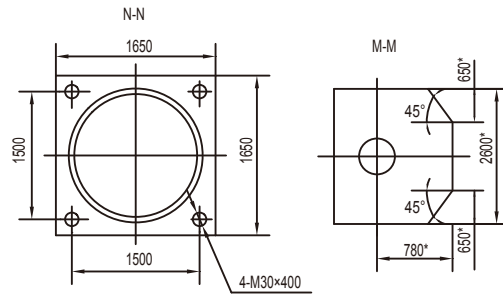
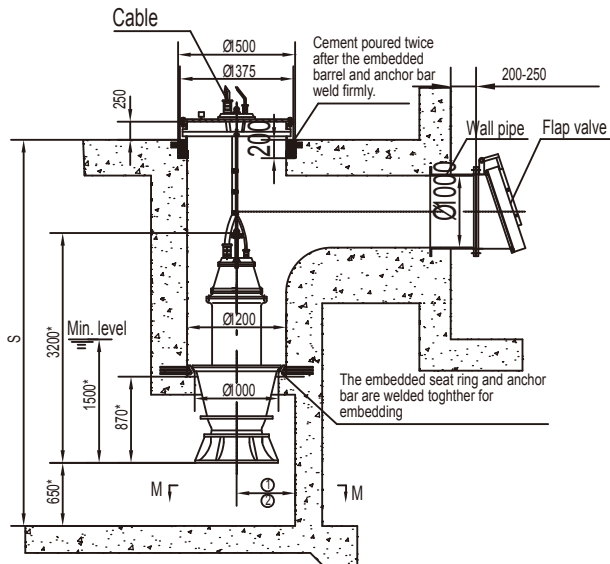
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

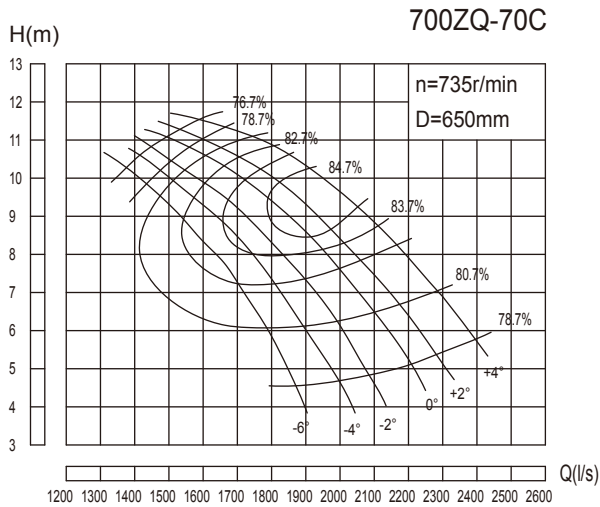


3. Installation with prefabricated concrete



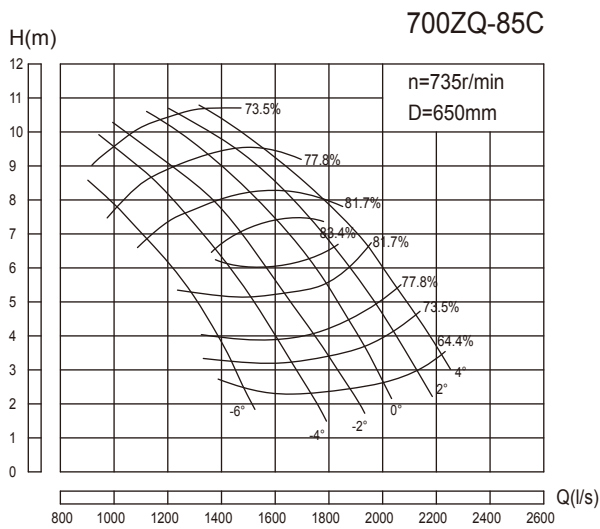
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



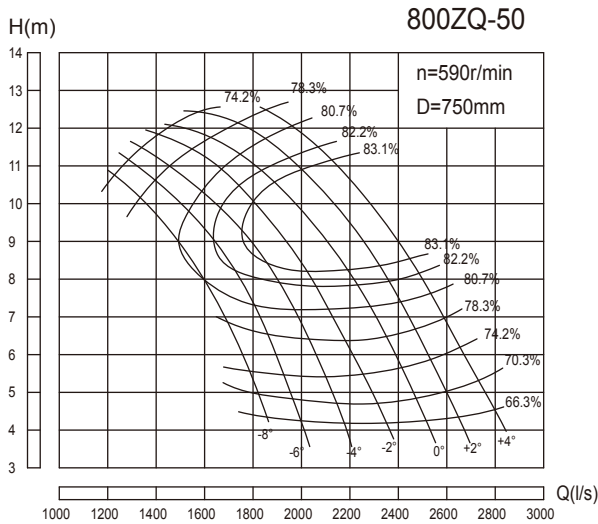
700ZQ-70C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 650 | | |
| | 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 | | | 650 | |
| | 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 | | | | 650 |
| | 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 | 650 | | | | |
| | 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 | | 650 | | | |
| | 7090.2 | 1969.5 | 9.89 | 225.6 | | 84.7 | | | | | |
| | 5735.2 | 1593.1 | 11.58 | 236 | | 76.7 | | | | | |



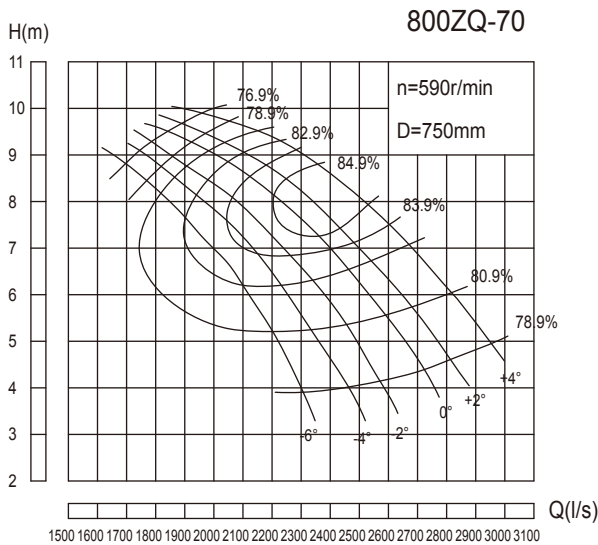
700ZQ-85C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 650 | | |
| | 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 | | | 650 | |
| | 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 | | | | 650 |
| | 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 | 650 | | | | |
| | 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 | | 650 | | | |
| | 6774.8 | 1881.9 | 7.71 | 172.3 | | 82.6 | | | | | |
| | 5122.8 | 1423 | 10.23 | 194 | | 73.6 | | | | | |



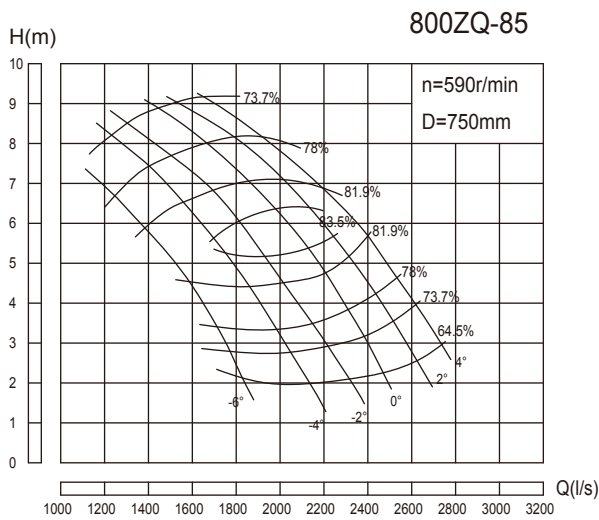
800ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 82.6 | | | | |
| | 4675 | 1298.6 | 11.12 | | 188.1 | | 75.3 | | | | |
| -4° | 7599.2 | 2110.9 | 4.74 | | 139.4 | 220 | 70.4 | | 750 | | |
| | 6419.9 | 1783.3 | 9.1 | | 190 | | 83.8 | | | | |
| | 4824 | 1340 | 11.64 | | 203.2 | | 75.3 | | | | |
| -2° | 8203.7 | 2278.8 | 4.74 | | 150.5 | 250 | 70.4 | | | 750 | |
| | 6613.6 | 1837.1 | 9.37 | | 201.5 | | 83.8 | | | | |
| | 5062.3 | 1406.2 | 11.96 | | 219.1 | | 75.3 | | | | |
| 0° | 8858.9 | 2460.8 | 4.97 | | 170.4 | 250 | 70.4 | | | | 750 |
| | 7346.2 | 2040.6 | 9.41 | | 224.3 | | 84 | | | | |
| | 5866.2 | 1629.5 | 11.8 | | 240.6 | | 78.4 | | | | |
| +2° | 9394.9 | 2609.7 | 5.08 | 184.7 | 280 | 70.4 | 750 | | | | |
| | 7733.2 | 2148.1 | 9.65 | 242.7 | | 83.8 | | | | | |
| | 6313 | 1753.6 | 12.19 | 267.5 | | 78.4 | | | | | |
| +4° | 9752 | 2708.9 | 5.51 | 208 | 315 | 70.4 | | 750 | | | |
| | 8132 | 2258.9 | 9.92 | 262.3 | | 83.8 | | | | | |
| | 6610.7 | 1836.3 | 12.42 | 285.4 | | 78.4 | | | | | |



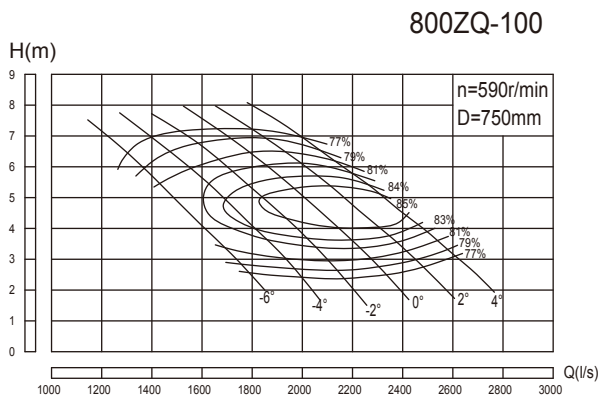
800ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /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 | | 82.9 | | | | |
| | 6065.3 | 1684.8 | 8.8 | | 189.1 | | 76.9 | | | | |
| -4° | 8811.7 | 2447.7 | 3.98 | | 121.1 | 220 | 78.9 | | 750 | | |
| | 7507.1 | 2085.3 | 7.24 | | 176.1 | | 84.1 | | | | |
| | 6294.2 | 1748.4 | 9.19 | | 205 | | 76.9 | | | | |
| -2° | 9269.6 | 2574.9 | 4.14 | | 132.5 | 220 | 78.9 | | | 750 | |
| | 7896.2 | 2193.4 | 7.55 | | 192.7 | | 84.3 | | | | |
| | 6431.4 | 1786.5 | 9.31 | | 212.2 | | 76.9 | | | | |
| 0° | 9727.2 | 2702 | 4.45 | | 149.5 | 250 | 78.9 | | | | 750 |
| | 8216.6 | 2282.4 | 7.89 | | 206.9 | | 85.4 | | | | |
| | 6591.6 | 1831 | 9.62 | | 224.7 | | 76.9 | | | | |
| +2° | 10070.6 | 2797.4 | 4.66 | 162.1 | 250 | 78.9 | 750 | | | | |
| | 8422.9 | 2339.7 | 7.97 | 213.2 | | 85.8 | | | | | |
| | 6660.4 | 1850.1 | 9.73 | 229.6 | | 76.9 | | | | | |
| +4° | 10574.3 | 2937.3 | 5.07 | 185.2 | 280 | 78.9 | | 750 | | | |
| | 8743.3 | 2428.7 | 8.49 | 238.3 | | 84.9 | | | | | |
| | 7072.2 | 1964.5 | 9.93 | 248.9 | | 76.9 | | | | | |



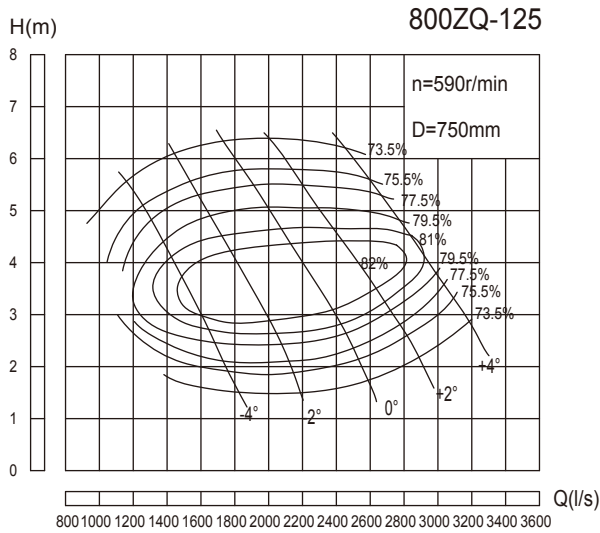
800ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 750 |
| | 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 | | 750 |
| | 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 | | 750 |
| | 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 | 750 | | |
| | 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 | 750 | | |
| | 8354.2 | 2320.6 | 6.61 | 181.7 | | 82.8 | | | |
| | 6316.9 | 1754.7 | 8.77 | 204.6 | | 73.8 | | | |



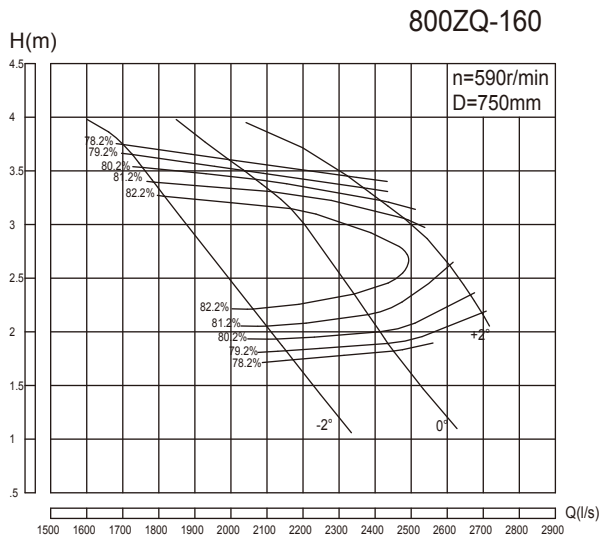
800ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 750 |
| | 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 | | 750 |
| | 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 | | 750 |
| | 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 | 750 | | |
| | 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 | 750 | | |
| | 8583.1 | 2384.2 | 4.6 | 126.3 | | 85.2 | | | |
| | 7667.3 | 2129.8 | 6.21 | 160.2 | | 81 | | | |



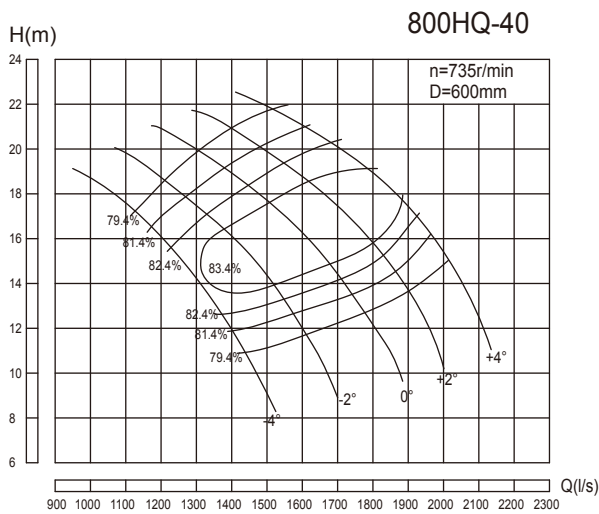
800ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 750 |
| | 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 | | 750 |
| | 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 | | 750 |
| | 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 | 750 | | |
| | 10459.8 | 2905.5 | 4.1 | 143.7 | | 81.3 | | | |
| | 9338.4 | 2594 | 5.6 | 188.7 | | 75.5 | | | |



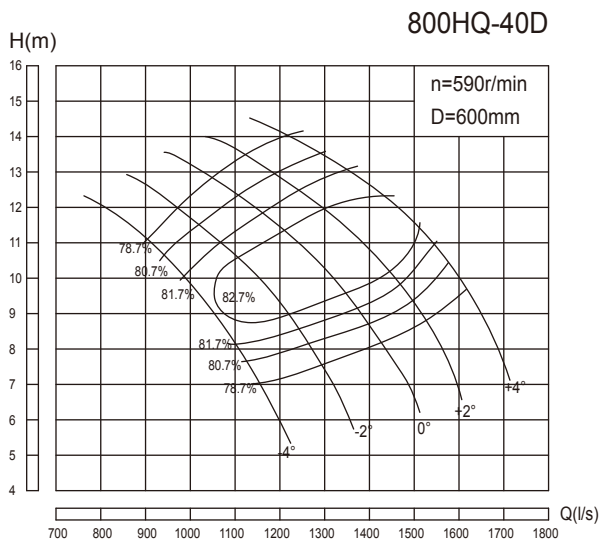
800ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 750 |
| | 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 | | 750 |
| | 9200.9 | 2555.8 | 2.79 | | 86 | | 81.3 | | |
| | 8524.1 | 2367.8 | 3.34 | | 97.8 | | 79.3 | | |



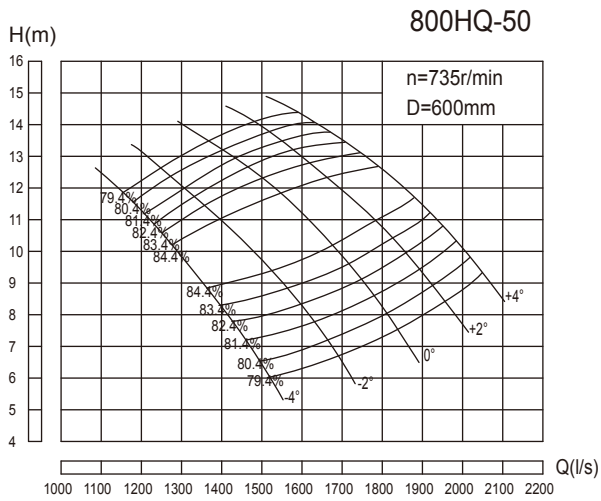
800HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 600 |
| | 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 | | 600 |
| | 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 | | 600 |
| | 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 | 600 | | |
| | 6569.3 | 1824.8 | 18.71 | 399.2 | | 83.9 | | | |
| | 5474.5 | 1520.7 | 21.97 | 412.8 | | 79.4 | | | |



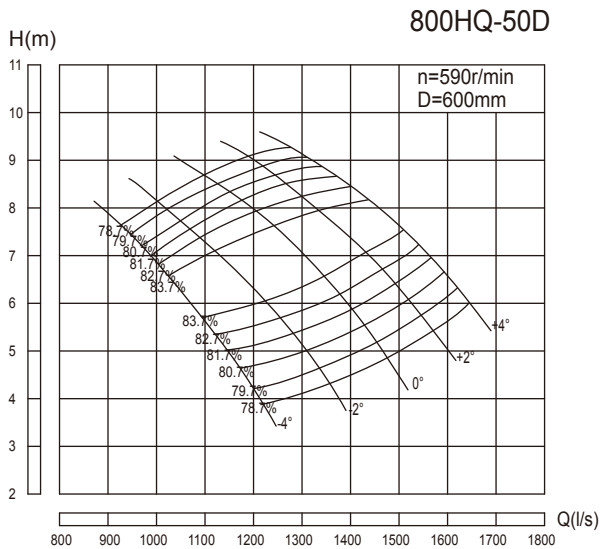
800HQ-40D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 600 |
| | 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 | | 600 |
| | 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 | | 600 |
| | 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 | 600 | | |
| | 5273.3 | 1464.8 | 12.05 | 208.1 | | 83.2 | | | |
| | 4394.5 | 1220.7 | 14.16 | 215.5 | | 78.7 | | | |



800HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 600 |
| | 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 | | 600 |
| | 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 | | 600 |
| | 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 | 600 | | |
| | 6423.5 | 1784.3 | 12.74 | 264.2 | | 84.4 | | | |
| | 5868.7 | 1630.2 | 14.08 | 280.1 | | 80.4 | | | |



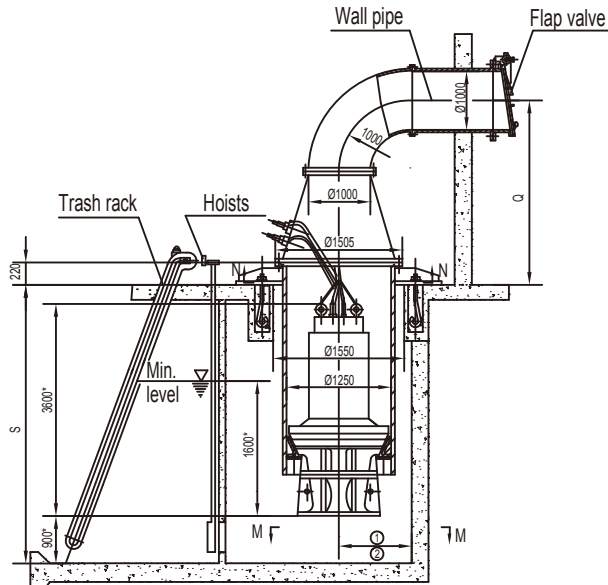
800HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 600 |
| | 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 | | 600 |
| | 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 | | 600 |
| | 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 | 600 | | |
| | 5156.3 | 1432.3 | 8.21 | 137.8 | | 83.7 | | | |
| | 4711 | 1308.6 | 9.07 | 146.1 | | 79.7 | | | |

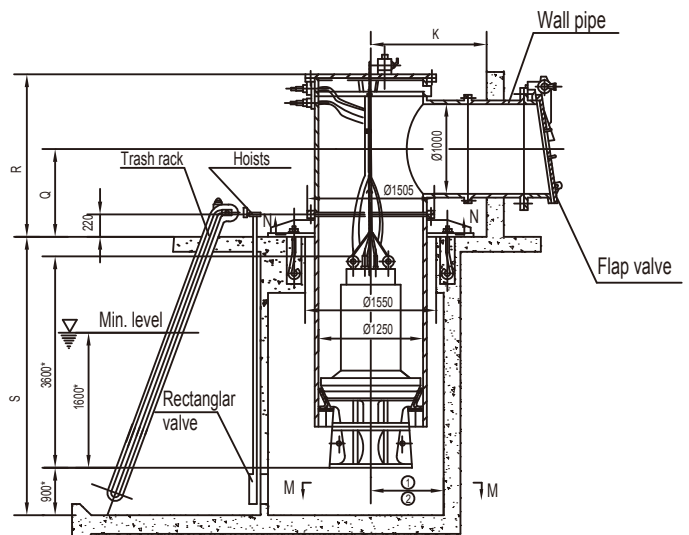
800ZQ-50,800ZQ-70,800ZQ-85,800ZQ-100,800ZQ-125,800ZQ-160
700ZQ-70C,700ZQ-85C,800HQ-40,800HQ-40D,800HQ-50,800HQ-50D

Outside installation dimensions drawing

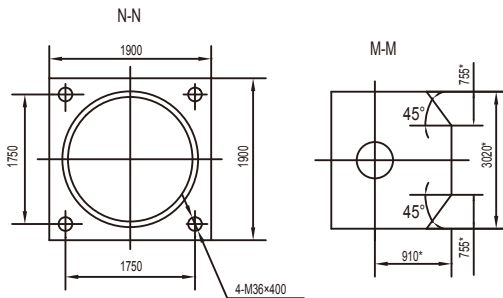
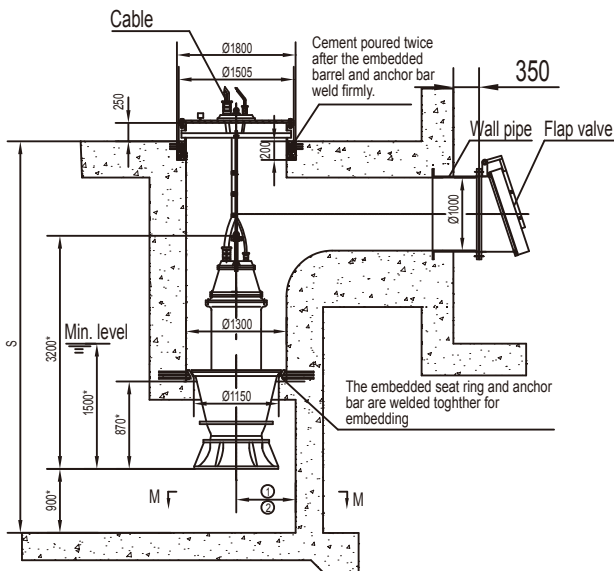
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

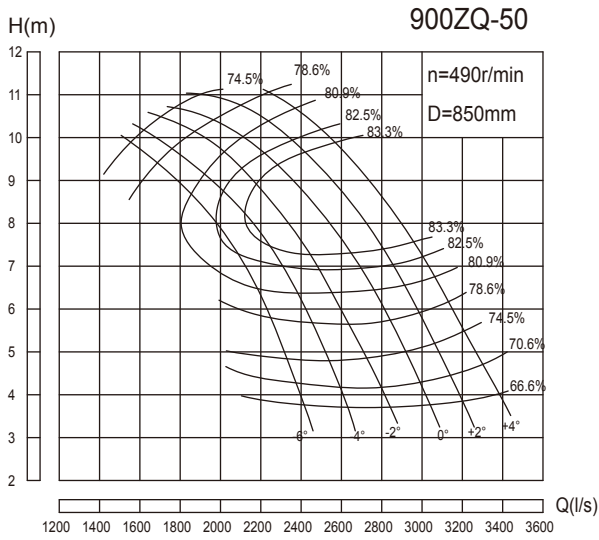


3. Installation with prefabricated concrete



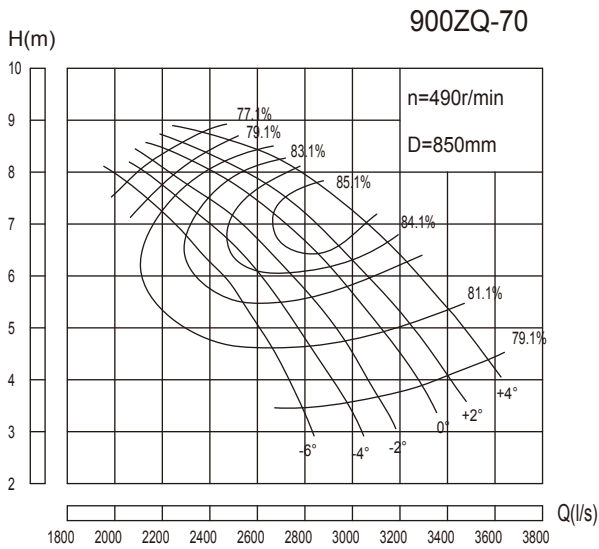
Note: S.Q.R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



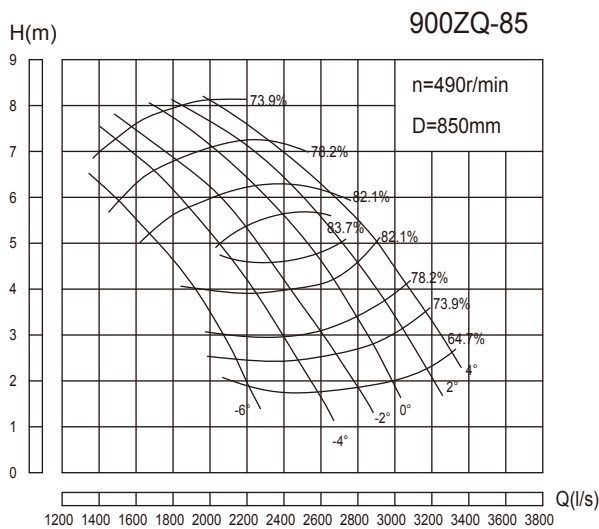
900ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|-------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 850 |
| | 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 | | 850 |
| | 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 | | 850 |
| | 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 | 850 | | |
| | 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 | 850 | | |
| | 9831.6 | 2731 | 8.79 | 280.3 | | 84 | | | |
| | 7992 | 2220 | 11 | 304.8 | | 78.6 | | | |



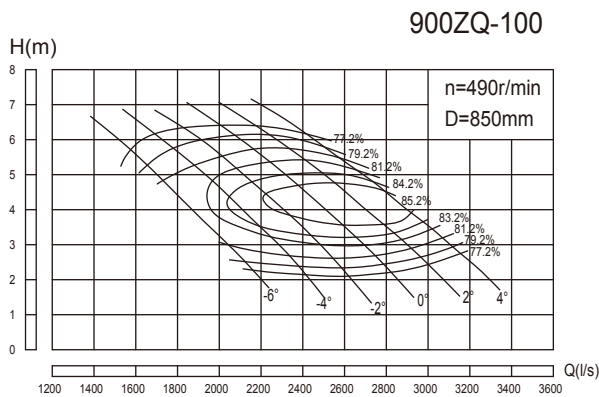
900ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 850 |
| | 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 | | 850 |
| | 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 | | 850 |
| | 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 | 850 | | |
| | 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 | 850 | | |
| | 10570.3 | 2936.2 | 7.52 | 254.5 | | 85.1 | | | |
| | 8550.4 | 2375.1 | 8.8 | 265.9 | | 77.1 | | | |



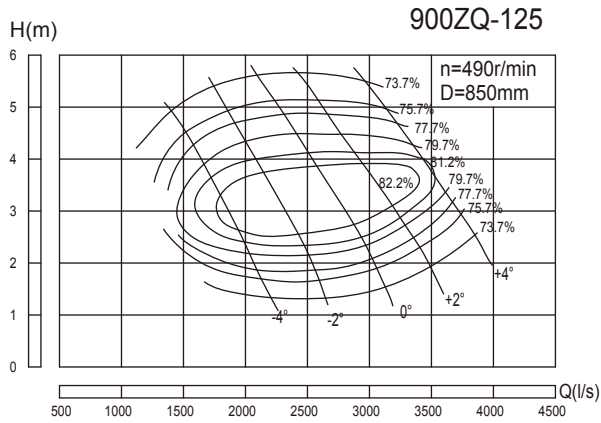
900ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



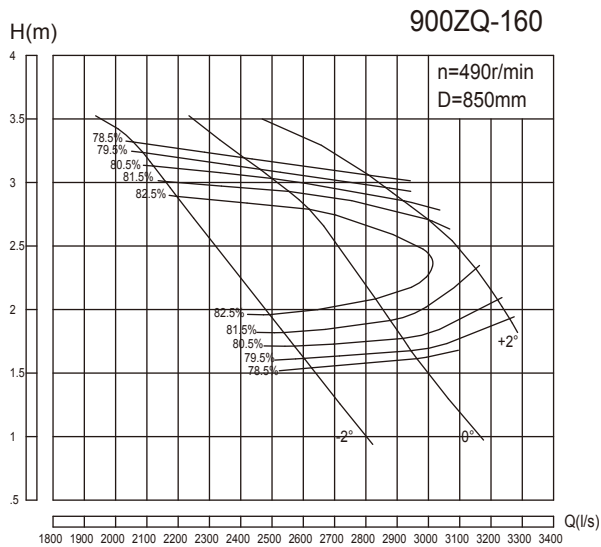
900ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



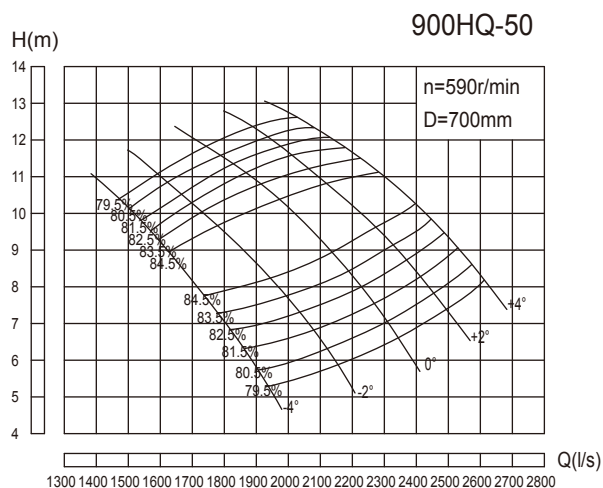
900ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 850 |
| | 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 | | 850 |
| | 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 | | 850 |
| | 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 | 850 | | |
| | 12645.7 | 3512.7 | 3.63 | 153.5 | | 81.5 | | | |
| | 11289.6 | 3136 | 4.96 | 201.6 | | 75.7 | | | |



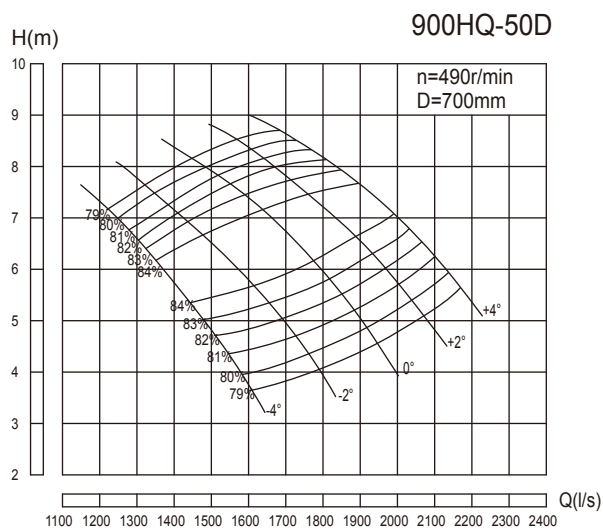
900ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 850 |
| | 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 | | 850 |
| | 11123.6 | 3089.9 | 2.48 | | 92.2 | | 81.5 | | |
| | 10305.4 | 2862.6 | 2.96 | | 104.6 | | 79.5 | | |



900HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |



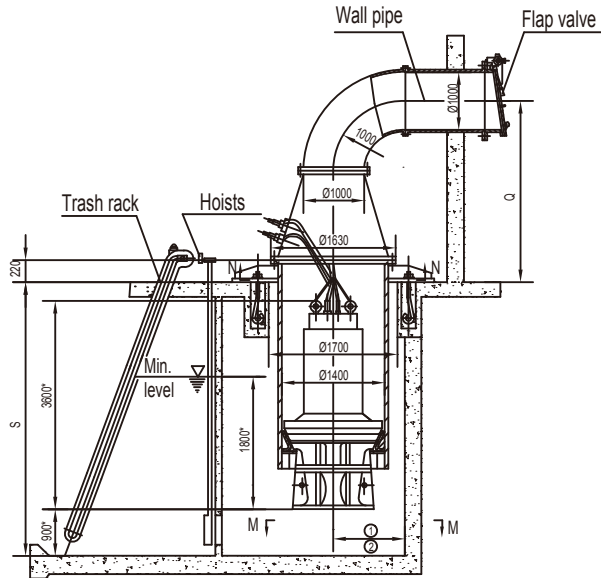
900HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |

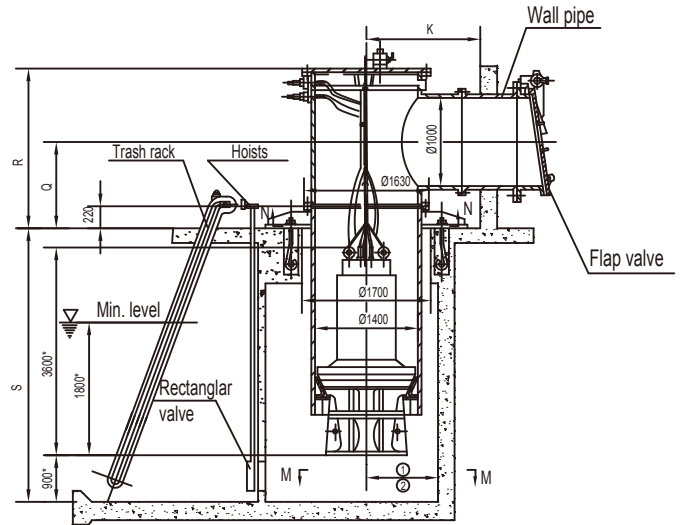
900ZQ-50, 900ZQ-70, 900ZQ-85, 900ZQ-100, 900ZQ-125, 900ZQ-160, 900HQ-50
900HQ-50D

Outside installation dimensions drawing

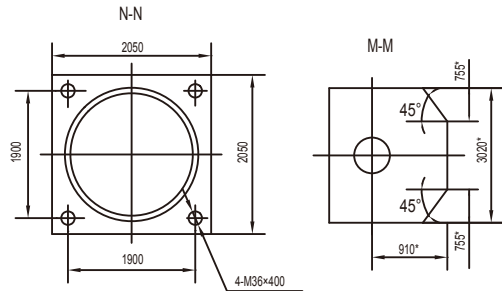
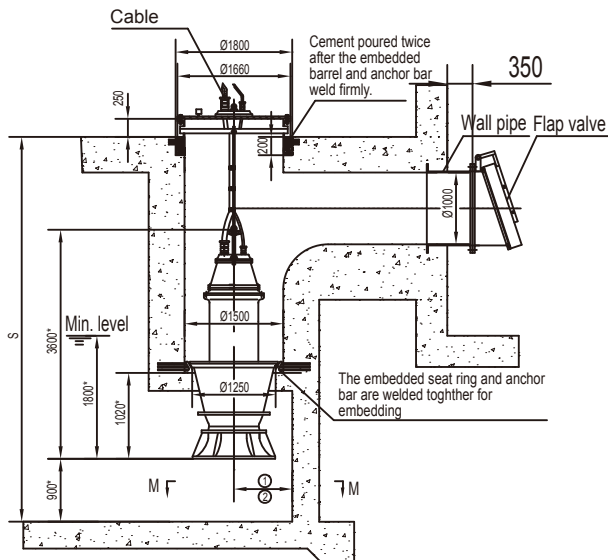
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

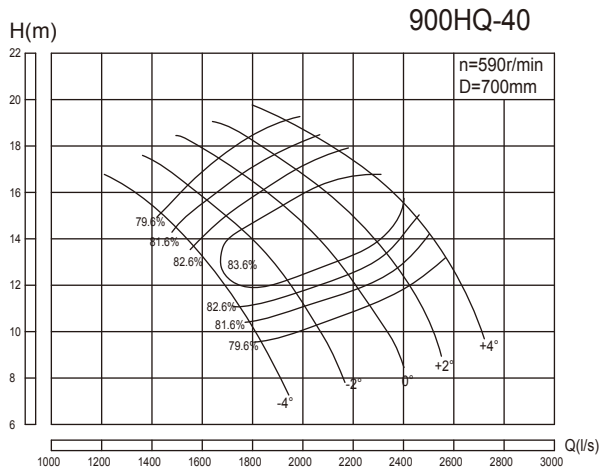


3. Installation with prefabricated concrete



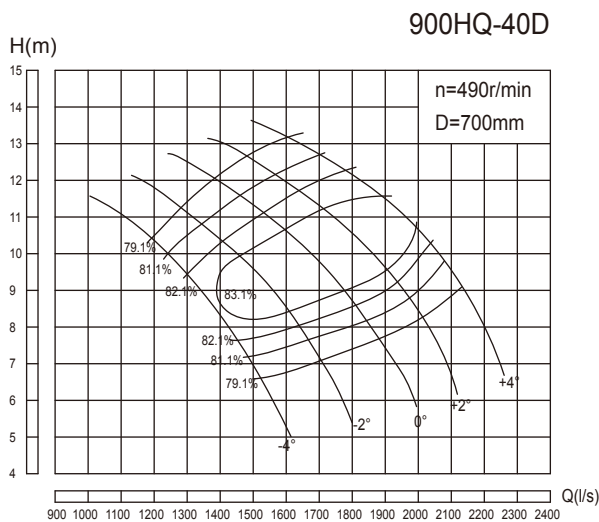
Note: S, Q, R, K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



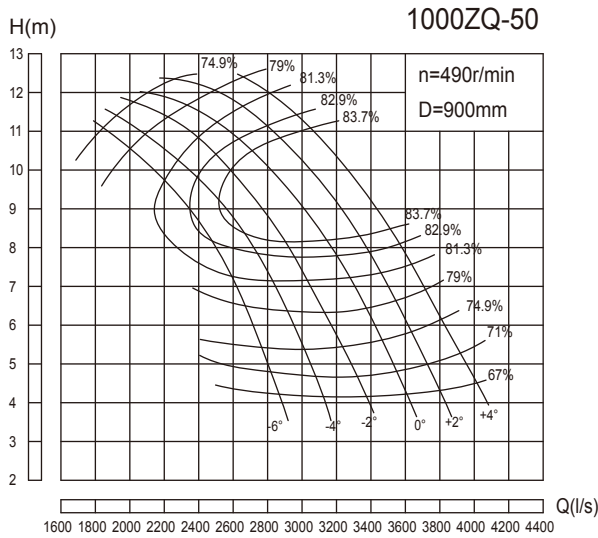
900HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 700 |
| | 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 | | 700 |
| | 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 | | 700 |
| | 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 | 700 | | |
| | 8374 | 2326.1 | 16.41 | 445.3 | | 84.1 | | | |
| | 6978.2 | 1938.4 | 19.27 | 460.3 | | 79.6 | | | |

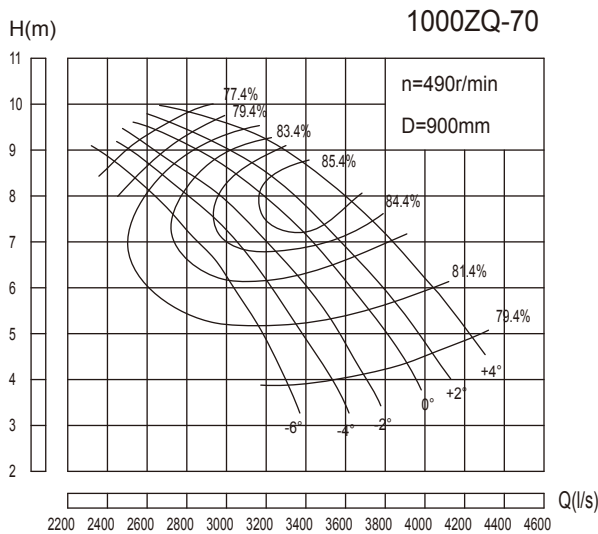


900HQ-40D Performance parameter list

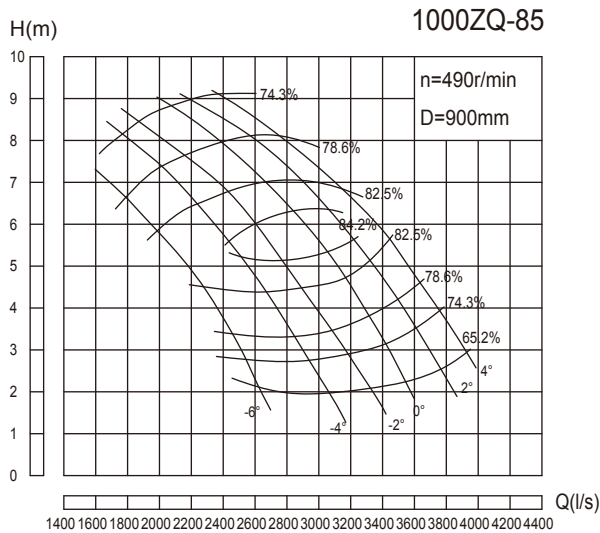
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /h) | (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 | | 700 |
| | 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 | | 700 |
| | 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 | | 700 |
| | 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 | 700 | | |
| | 6954.5 | 1931.8 | 11.32 | 256.6 | | 83.6 | | | |
| | 5795.6 | 1609.9 | 13.29 | 265.3 | | 79.1 | | | |


1000ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |

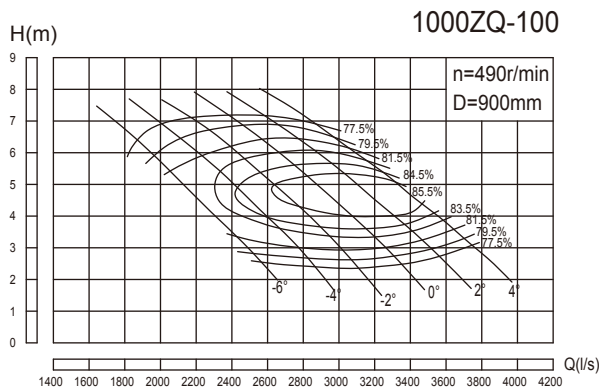

1000ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 list

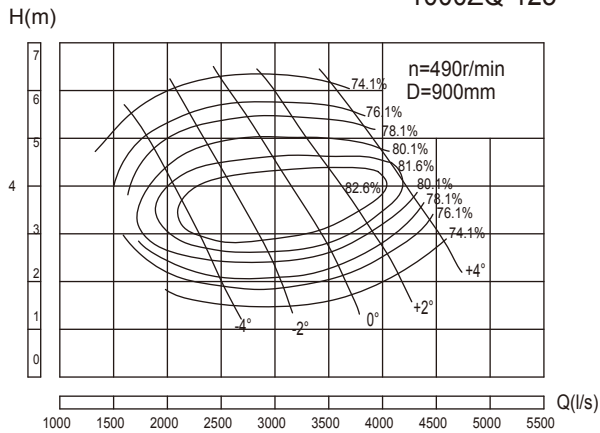
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 8901.4 | 2472.6 | 2.87 | 490 | 93.6 | 160 | 74.4 | 900 |
| | 8146.1 | 2262.8 | 4.36 | | 116 | | | |
| | 5748.1 | 1596.7 | 7.35 | | 154.7 | | | |
| -4° | 10314 | 2865 | 2.77 | | 104.6 | 185 | 74.4 | |
| | 8803.1 | 2445.3 | 5.34 | | 151.8 | | | |
| | 6306.5 | 1751.8 | 7.8 | | 180.2 | | | |
| -2° | 11594.9 | 3220.8 | 2.87 | | 121.9 | 220 | 74.4 | |
| | 10018.4 | 2782.9 | 5.24 | | 169.5 | | | |
| | 6930.7 | 1925.2 | 8.17 | | 207.4 | | | |
| 0° | 12481.9 | 3467.2 | 3.13 | | 143.1 | 250 | 74.4 | |
| | 10971 | 3047.5 | 5.44 | | 190.4 | | | |
| | 7620.5 | 2116.8 | 8.48 | | 236.7 | | | |
| +2° | 13335.8 | 3704.4 | 3.6 | 175.8 | 280 | 74.4 | | |
| | 11726.3 | 3257.3 | 5.81 | 220 | | | | |
| | 8310.2 | 2308.4 | 8.73 | 265.7 | | | | |
| +4° | 14189.8 | 3941.6 | 4.04 | 210 | 315 | 74.4 | | |
| | 11989.1 | 3330.3 | 6.57 | 257.4 | | | | |
| | 9065.9 | 2518.3 | 8.72 | 289.5 | | | | |



1000ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 8737.2 | 2427 | 3.29 | 490 | 96.1 | 160 | 81.5 | 900 |
| | 8211.6 | 2281 | 4.14 | | 111.5 | | | |
| | 7390.4 | 2052.9 | 5.45 | | 134.7 | | | |
| -4° | 9985.3 | 2773.7 | 3.01 | | 100.5 | 185 | 81.5 | |
| | 9197.3 | 2554.8 | 4.21 | | 124.7 | | | |
| | 8031.2 | 2230.9 | 5.91 | | 158.7 | | | |
| -2° | 10872.4 | 3020.1 | 2.93 | | 106.5 | 185 | 81.5 | |
| | 10018.4 | 2782.9 | 4.33 | | 138.7 | | | |
| | 8605.8 | 2390.5 | 6.2 | | 178.4 | | | |
| 0° | 11726.3 | 3257.3 | 3.02 | | 118.4 | 220 | 81.5 | |
| | 10839.6 | 3011 | 4.32 | | 149.2 | | | |
| | 9246.2 | 2568.4 | 6.42 | | 198.5 | | | |
| +2° | 12481.9 | 3467.2 | 3.26 | 136.1 | 220 | 81.5 | | |
| | 11496.2 | 3193.4 | 4.55 | 165.7 | | | | |
| | 9985.3 | 2773.7 | 6.44 | 215 | | | | |
| +4° | 13138.9 | 3649.7 | 3.58 | 157.3 | 250 | 81.5 | | |
| | 12317.8 | 3421.6 | 4.57 | 179 | | | | |
| | 11003.8 | 3056.6 | 6.17 | 227 | | | | |

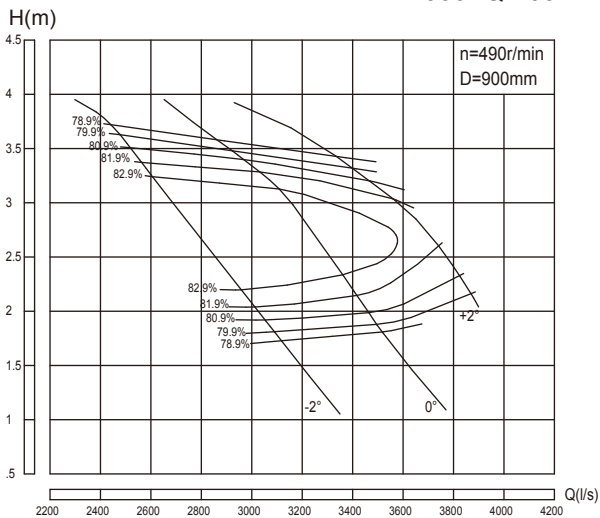
1000ZQ-125



1000ZQ-125 Performance parameter list

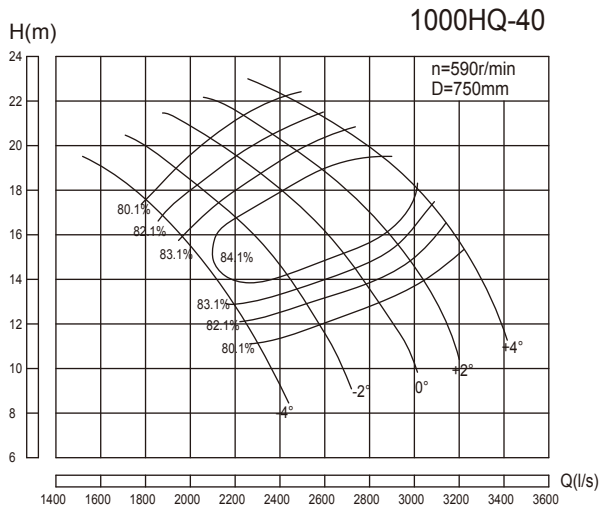
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | 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 | | | |
| | 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



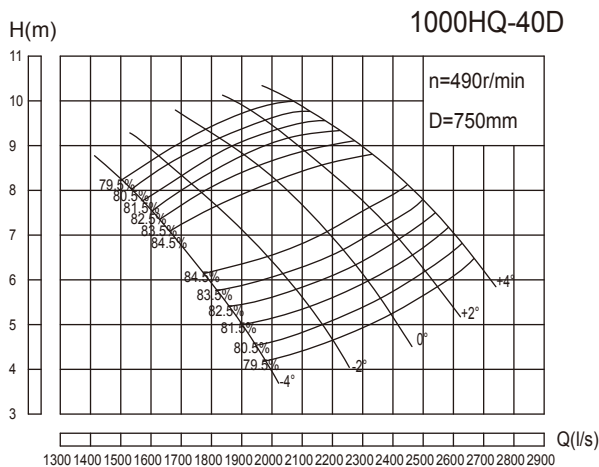
1000ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 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 | |



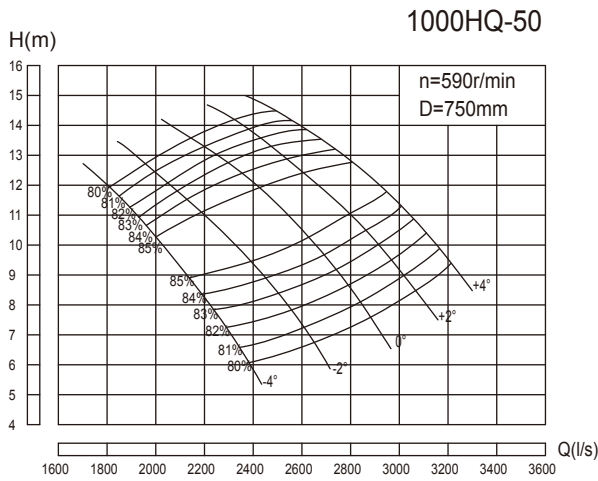
1000HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 6514.2 | 1809.5 | 17.72 | | 392.7 | | | |
| -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 | | |

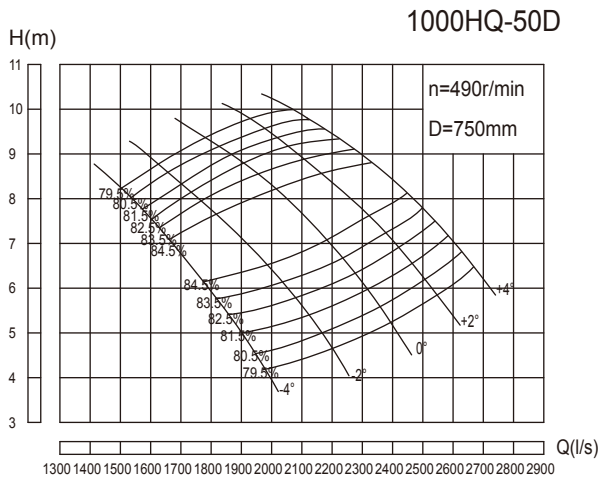


1000HQ-40D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -4° | 8445.6 | 2346 | 6.57 | 590 | 186.7 | 280 | 81 | 750 | | | |
| | 7324.2 | 2034.5 | 10.04 | | 235.7 | | 85 | | | | |
| | 6614.6 | 1837.4 | 11.64 | | 259 | | 81 | | | | |
| -2° | 9384.1 | 2606.7 | 7.24 | | 228.6 | 315 | 81 | | 750 | | |
| | 8010.7 | 2225.2 | 10.87 | | 278.8 | | 85.1 | | | | |
| | 7186.7 | 1996.3 | 12.42 | | 300.3 | | 81 | | | | |
| 0° | 10230.8 | 2841.9 | 8.07 | | 277.8 | 400 | 81 | | | 750 | |
| | 8926.2 | 2479.5 | 11.38 | | 325.7 | | 85 | | | | |
| | 7919.3 | 2199.8 | 13.3 | | 354.3 | | 81 | | | | |
| +2° | 10871.6 | 3019.9 | 9 | | 329.2 | 450 | 81 | | | | 750 |
| | 9384.1 | 2606.7 | 12.42 | | 373.6 | | 85 | | | | |
| | 8605.8 | 2390.5 | 13.87 | | 401.6 | | 81 | | | | |
| +4° | 11398.3 | 3166.2 | 9.83 | 376.9 | 450 | 81 | 750 | | | | |
| | 10070.6 | 2797.4 | 12.83 | 414.2 | | 85 | | | | | |
| | 9200.9 | 2555.8 | 14.18 | 438.9 | | 81 | | | | | |

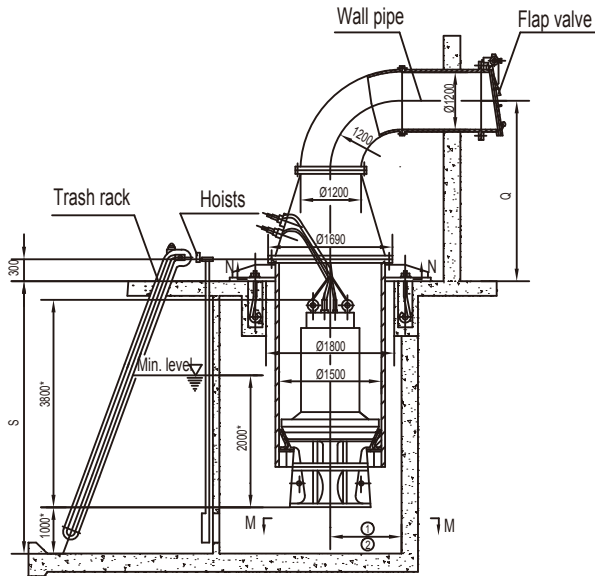

1000HQ-50D Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|-----|-----|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -4° | 7014.2 | 1948.4 | 4.53 | 490 | 107.6 | 160 | 80.5 | 835 | | | |
| | 6082.9 | 1689.7 | 6.92 | | 135.7 | | 84.5 | | | | |
| | 5493.6 | 1526 | 8.03 | | 149.3 | | 80.5 | | | | |
| -2° | 7793.6 | 2164.9 | 5 | | 131.9 | 185 | 80.5 | | 835 | | |
| | 6653.2 | 1848.1 | 7.49 | | 160.5 | | 84.6 | | | | |
| | 5968.8 | 1658 | 8.56 | | 173 | | 80.5 | | | | |
| 0° | 8496.7 | 2360.2 | 5.57 | | 160.2 | 220 | 80.5 | | | 835 | |
| | 7413.5 | 2059.3 | 7.85 | | 187.7 | | 84.5 | | | | |
| | 6576.8 | 1826.9 | 9.17 | | 204.2 | | 80.5 | | | | |
| +2° | 9029.2 | 2508.1 | 6.21 | | 189.8 | 250 | 80.5 | | | | 835 |
| | 7793.6 | 2164.9 | 8.56 | | 215.1 | | 84.5 | | | | |
| | 7147.1 | 1985.3 | 9.56 | | 231.3 | | 80.5 | | | | |
| +4° | 9466.2 | 2629.5 | 6.78 | 217.3 | 280 | 80.5 | 835 | | | | |
| | 8363.9 | 2323.3 | 8.85 | 238.7 | | 84.5 | | | | | |
| | 7641.4 | 2122.6 | 9.78 | 253 | | 80.5 | | | | | |

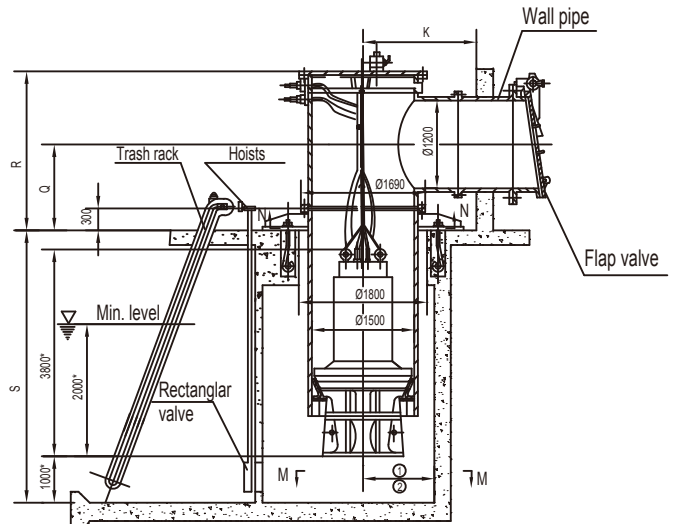
900HQ-40, 900HQ-40D, 1000HQ-40, 1000HQ-40D, 1000HQ-50, 1000HQ-50D,
1000ZQ-50, 1000ZQ-70, 1000ZQ-85, 1000ZQ-100, 1000ZQ-125, 1000ZQ-160,

Outside installation dimensions drawing

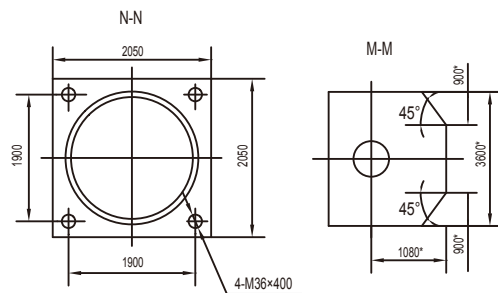
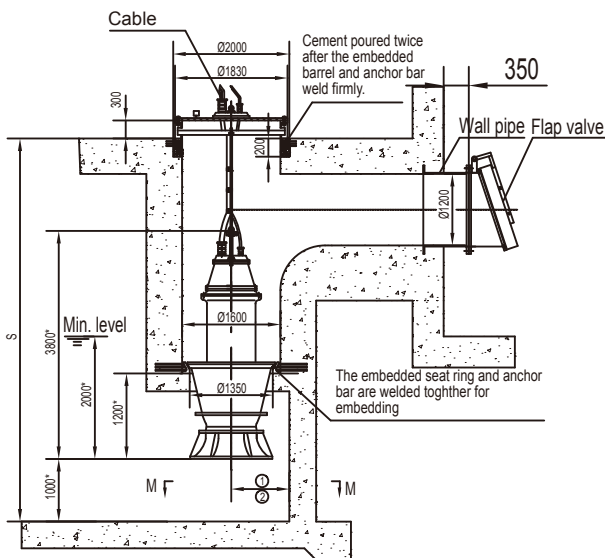
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft



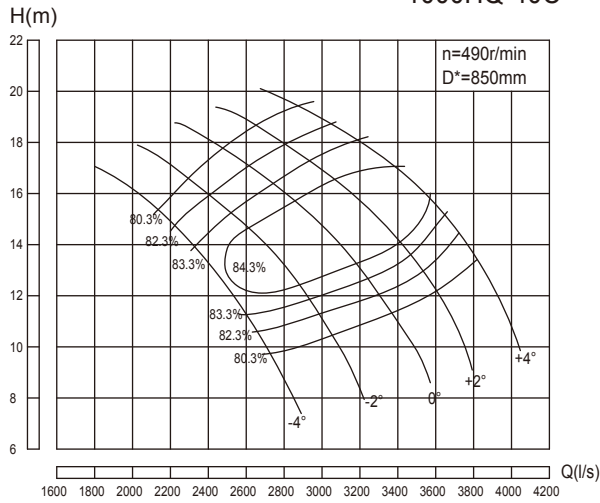
3. Installation with prefabricated concrete



Note: S, Q, R, K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference

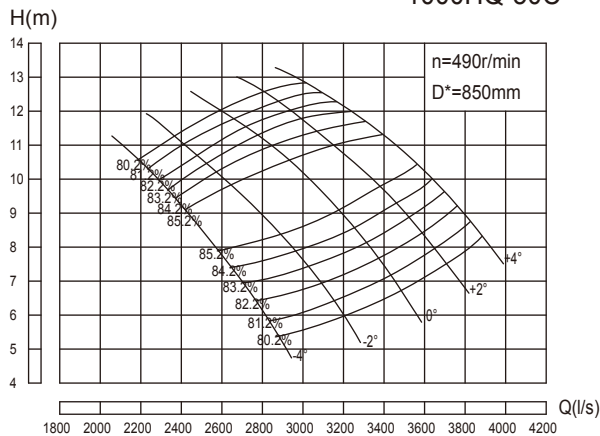
1000HQ-40C



1000HQ-40C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 7720.2 | 2144.5 | 15.49 | | 405.8 | | | |
| -2° | 11013.1 | 3059.2 | 10.51 | | 392.8 | 500 | 80.3 | |
| | 9961.6 | 2767.1 | 13.57 | | 437 | | | |
| | 8301.2 | 2305.9 | 16.71 | | 470.7 | | | |
| 0° | 12092 | 3358.9 | 11.34 | | 465.3 | 560 | 80.3 | |
| | 10791.7 | 2997.7 | 14.76 | | 513.1 | | | |
| | 8937.7 | 2482.7 | 17.94 | | 544.1 | | | |
| +2° | 12977.6 | 3604.9 | 12.27 | | 540.4 | 650 | 80.3 | |
| | 11621.9 | 3228.3 | 15.58 | | 578.4 | | | |
| | 9546.5 | 2651.8 | 18.84 | | 610.3 | | | |
| +4° | 13752.4 | 3820.1 | 13.52 | | 631 | 750 | 80.3 | |
| | 12452 | 3458.9 | 16.68 | | 667.4 | | | |
| | 10376.6 | 2882.4 | 19.6 | | 690.2 | | | |

1000HQ-50C

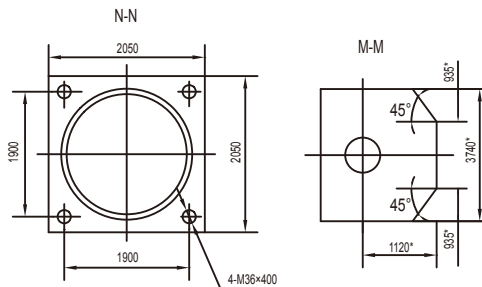
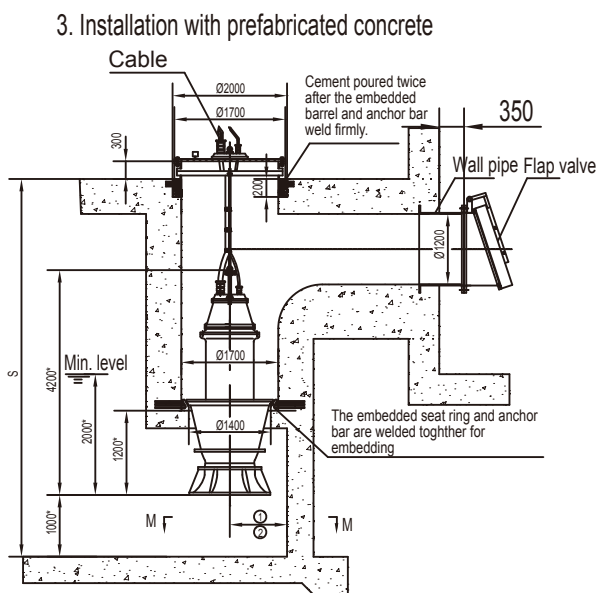
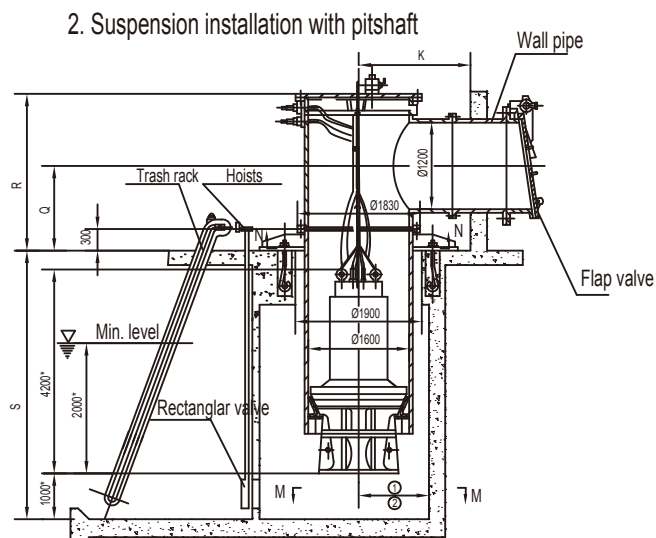
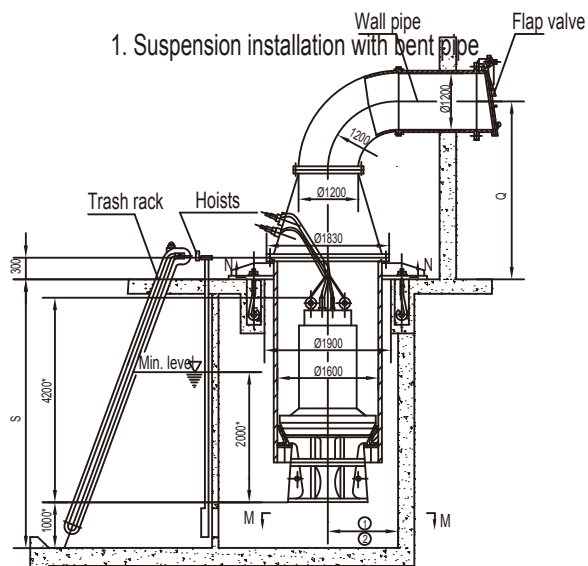


1000HQ-50C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 7997 | 2221.4 | 10.31 | | 276.7 | | | |
| -2° | 11345 | 3151.4 | 6.42 | | 244.4 | 355 | 81.2 | |
| | 9684.7 | 2690.2 | 9.63 | | 297.9 | | | |
| | 8688.6 | 2413.5 | 11 | | 320.7 | | | |
| 0° | 12368.9 | 3435.8 | 7.15 | | 296.8 | 400 | 81.2 | |
| | 10791.7 | 2997.7 | 10.08 | | 347.9 | | | |
| | 9574.2 | 2659.5 | 11.78 | | 378.5 | | | |
| +2° | 13143.6 | 3651 | 7.98 | | 352 | 450 | 81.2 | |
| | 11345 | 3151.4 | 11 | | 399.1 | | | |
| | 10404.4 | 2890.1 | 12.28 | | 428.8 | | | |
| +4° | 13780.1 | 3827.8 | 8.71 | | 402.8 | 500 | 81.2 | |
| | 12175.2 | 3382 | 11.37 | | 442.8 | | | |
| | 11123.6 | 3089.9 | 12.56 | | 468.9 | | | |

1000HQ-40C, 1000HQ-50C

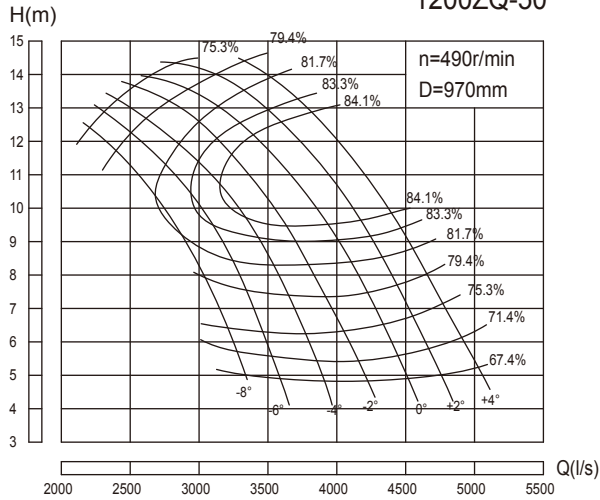
Outside installation dimensions drawing



Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference

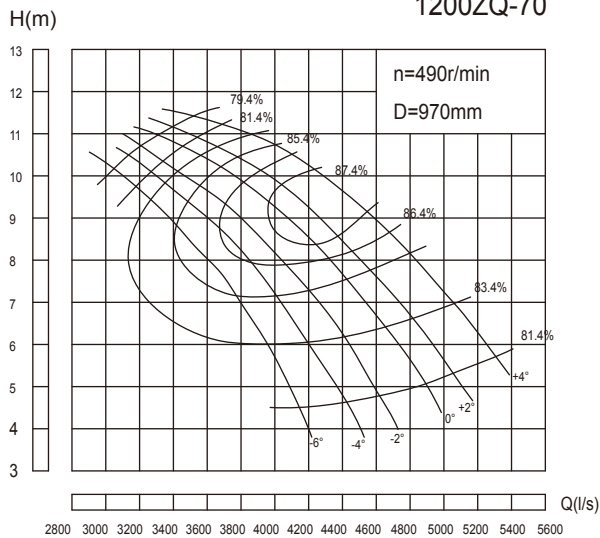
1200ZQ-50



1200ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 12572.6 | 3492.4 | 5.57 | 490 | 267.3 | 400 | 71.4 | 970 |
| | 10609.2 | 2947 | 10.18 | | 352 | | | |
| | 8399.5 | 2333.2 | 12.83 | | 384.9 | | | |
| -4° | 13653.4 | 3792.6 | 5.47 | | 285 | 450 | 71.4 | |
| | 11534.8 | 3204.1 | 10.5 | | 389.2 | | 84.8 | |
| | 8667 | 2407.5 | 13.43 | | 415.7 | | 76.3 | |
| -2° | 14739.5 | 4094.3 | 5.47 | | 307.7 | 500 | 71.4 | |
| | 11882.5 | 3300.7 | 10.81 | | 412.8 | | 84.8 | |
| | 9095 | 2526.4 | 13.8 | | 448.3 | | 76.3 | |
| 0° | 15916.7 | 4421.3 | 5.73 | | 348.1 | 560 | 71.4 | |
| | 13198.7 | 3666.3 | 10.86 | | 459.5 | | 85 | |
| | 10539.7 | 2927.7 | 13.61 | | 492.3 | | 79.4 | |
| +2° | 16879.7 | 4688.8 | 5.86 | 377.5 | 560 | 71.4 | | |
| | 13894.2 | 3859.5 | 11.13 | 496.9 | | 84.8 | | |
| | 11342.2 | 3150.6 | 14.06 | 547.3 | | 79.4 | | |
| +4° | 17521.6 | 4867.1 | 6.36 | 425.3 | 630 | 71.4 | | |
| | 14611 | 4058.6 | 11.45 | 537.6 | | 84.8 | | |
| | 11877.1 | 3299.2 | 14.33 | 584.1 | | 79.4 | | |

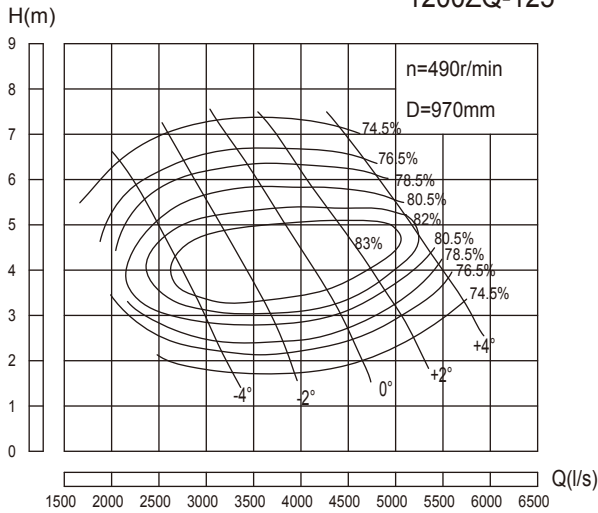
1200ZQ-70



1200ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 14804.3 | 4112.3 | 4.48 | 490 | 222 | 400 | 81.4 | 970 |
| | 13159.4 | 3655.4 | 7.88 | | 330.9 | | 85.4 | |
| | 10897.6 | 3027.1 | 10.15 | | 379.6 | | 79.4 | |
| -4° | 15832.1 | 4397.8 | 4.6 | | 243.8 | 450 | 81.4 | |
| | 13488.1 | 3746.7 | 8.36 | | 354.8 | | 86.6 | |
| | 11308.7 | 3141.3 | 10.6 | | 411.4 | | 79.4 | |
| -2° | 16654.7 | 4626.3 | 4.78 | | 266.5 | 450 | 81.4 | |
| | 14187.2 | 3940.9 | 8.72 | | 388.4 | | 86.8 | |
| | 11555.6 | 3209.9 | 10.74 | | 425.9 | | 79.4 | |
| 0° | 17477.3 | 4854.8 | 5.13 | | 300.1 | 500 | 81.4 | |
| | 14763.2 | 4100.9 | 9.1 | | 416.5 | | 87.9 | |
| | 11843.3 | 3289.8 | 11.1 | | 451.2 | | 79.4 | |
| +2° | 18094 | 5026.1 | 5.37 | 325.3 | 500 | 81.4 | | |
| | 15133.3 | 4203.7 | 9.19 | 429.2 | | 88.3 | | |
| | 11966.8 | 3324.1 | 11.22 | 460.8 | | 79.4 | | |
| +4° | 18998.6 | 5277.4 | 5.85 | 372.1 | 560 | 81.4 | | |
| | 15709 | 4363.6 | 9.79 | 479.5 | | 87.4 | | |
| | 12706.9 | 3529.7 | 11.46 | 499.8 | | 79.4 | | |

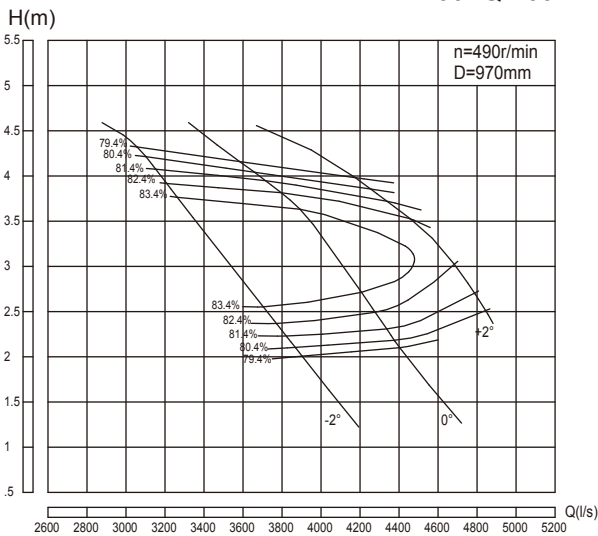
1200ZQ-125



1200ZQ-125 Performance parameter list

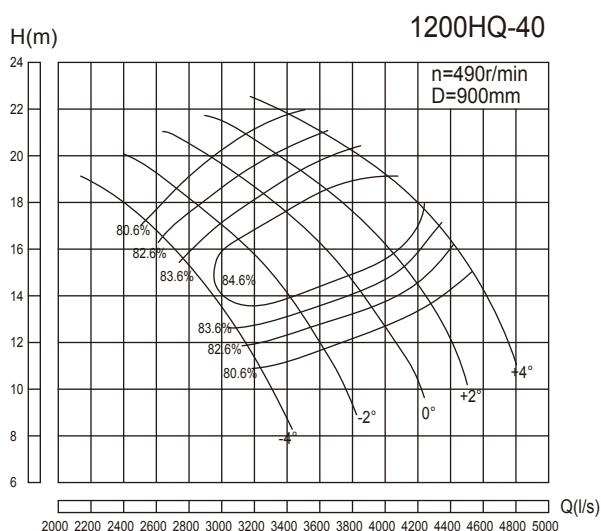
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /h) | (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 | 250 | 78.6 | | 970 |
| | 12624.8 | 3506.9 | 3.75 | | 154.5 | | 83.5 | | |
| | 9951.8 | 2764.4 | 6.38 | | 225.9 | | 76.6 | | |
| 0° | 16161.1 | 4489.2 | 2.72 | | 152.4 | 315 | 78.6 | | 970 |
| | 14886.4 | 4135.1 | 4.13 | | 199.2 | | 84.1 | | |
| | 11966.8 | 3324.1 | 6.69 | | 284.8 | | 76.6 | | |
| +2° | 17970.5 | 4991.8 | 3.22 | | 200.6 | 355 | 78.6 | | 970 |
| | 16531.2 | 4592 | 4.27 | | 230.4 | | 83.5 | | |
| | 13858.2 | 3849.5 | 6.69 | | 329.8 | | 76.6 | | |
| +4° | 19615.7 | 5448.8 | 4.13 | 280.9 | 400 | 78.6 | 970 | | |
| | 18793.1 | 5220.3 | 4.73 | 294 | | 82.4 | | | |
| | 16778.2 | 4660.6 | 6.46 | 385.6 | | 76.6 | | | |

1200ZQ-160



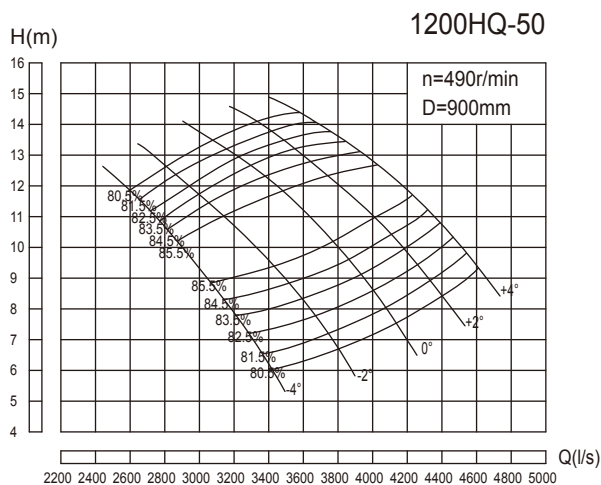
1200ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | |
| -2° | 13925.9 | 3868.3 | 2.1 | 490 | 99.1 | 185 | 80.4 | 970 | |
| | 12748 | 3541.1 | 2.97 | | 121.5 | | 84.9 | | |
| | 11164 | 3101.1 | 4.21 | | 159.3 | | 80.4 | | |
| 0° | 15738.8 | 4371.9 | 2.17 | | 115.8 | 200 | 80.4 | | 970 |
| | 14804.3 | 4112.3 | 2.98 | | 143.3 | | 83.9 | | |
| | 13187.2 | 3663.1 | 4.04 | | 180.6 | | 80.4 | | |
| +2° | 17440.6 | 4844.6 | 2.51 | | 148.4 | 220 | 80.4 | | 970 |
| | 16531.2 | 4592 | 3.22 | | 176 | | 82.4 | | |
| | 15315.5 | 4254.3 | 3.86 | | 200.4 | | 80.4 | | |



1200HQ-40 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 9164.2 | 2545.6 | 17.37 | | 538.2 | | | |
| -2° | 13073 | 3631.4 | 11.78 | | 520.7 | 710 | 80.6 | |
| | 11824.9 | 3284.7 | 15.21 | | 579.3 | | | |
| | 9853.9 | 2737.2 | 18.74 | | 624.3 | | | |
| 0° | 14353.9 | 3987.2 | 12.71 | | 616.8 | 800 | 80.6 | |
| | 12810.2 | 3558.4 | 16.55 | | 680.5 | | | |
| | 10609.6 | 2947.1 | 20.11 | | 721.3 | | | |
| +2° | 15405.1 | 4279.2 | 13.75 | | 716.1 | 900 | 80.6 | |
| | 13795.6 | 3832.1 | 17.47 | | 767.2 | | | |
| | 11332.1 | 3147.8 | 21.12 | | 809.2 | | | |
| +4° | 16324.9 | 4534.7 | 15.16 | 836.7 | 1000 | 80.6 | | |
| | 14781.2 | 4105.9 | 18.71 | 885.6 | | | | |
| | 12317.8 | 3421.6 | 21.97 | 914.9 | | | | |



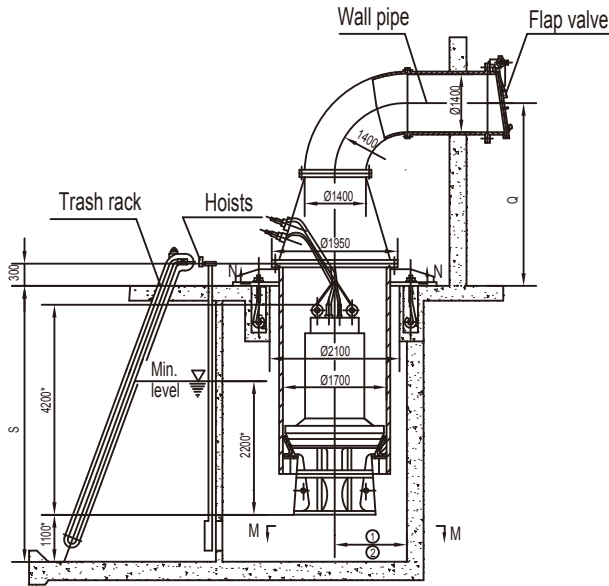
1200HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 9492.8 | 2636.9 | 11.56 | | 366.5 | | | |
| -2° | 13467.2 | 3740.9 | 7.19 | | 323.4 | 450 | 81.6 | |
| | 11496.2 | 3193.4 | 10.79 | | 394.4 | | | |
| | 10314 | 2865 | 12.33 | | 424.7 | | | |
| 0° | 14682.6 | 4078.5 | 8.02 | | 393.2 | 560 | 81.6 | |
| | 12810.2 | 3558.4 | 11.31 | | 461.2 | | | |
| | 11365.2 | 3157 | 13.21 | | 501.4 | | | |
| +2° | 15602.4 | 4334 | 8.94 | | 465.8 | 630 | 81.6 | |
| | 13467.2 | 3740.9 | 12.33 | | 528.6 | | | |
| | 12350.5 | 3430.7 | 13.77 | | 567.9 | | | |
| +4° | 16357.7 | 4543.8 | 9.76 | 533.1 | 710 | 81.6 | | |
| | 14452.6 | 4014.6 | 12.74 | 586.1 | | | | |
| | 13204.4 | 3667.9 | 14.08 | 620.9 | | | | |

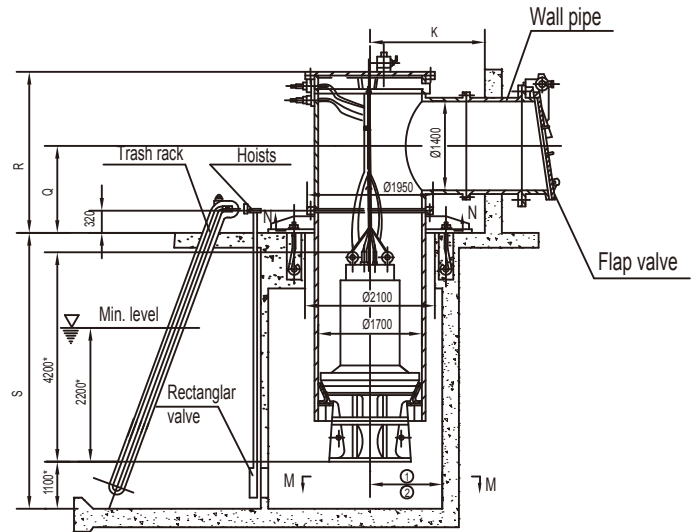
1200ZQ-50, 1200ZQ-70, 1200ZQ-85, 1200ZQ-100, 1200ZQ-125, 1200ZQ-160, 1200HQ-40
1200HQ-50

Outside installation dimensions drawing

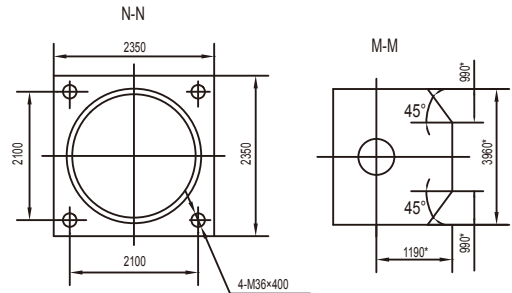
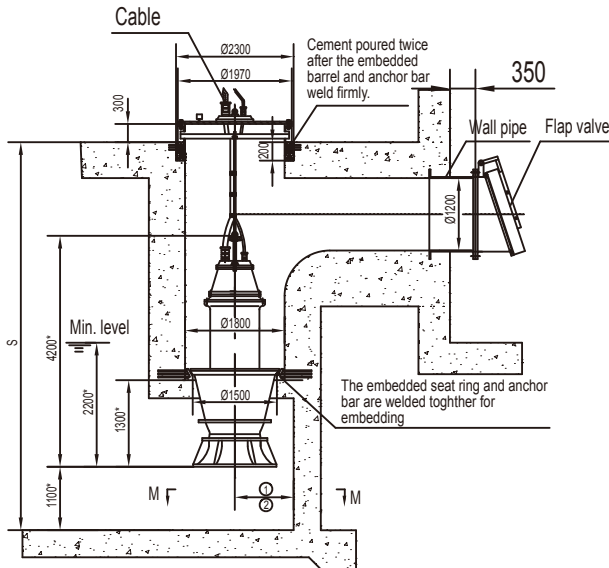
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft

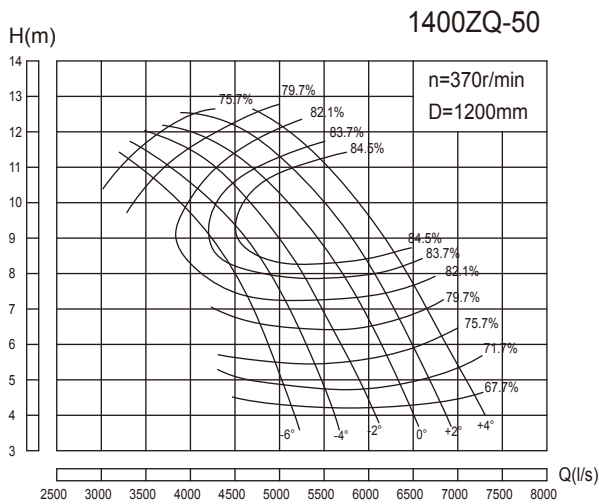


3. Installation with prefabricated concrete



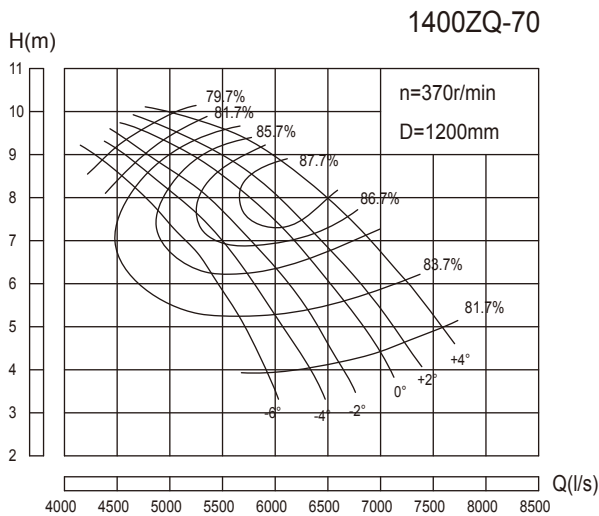
Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference



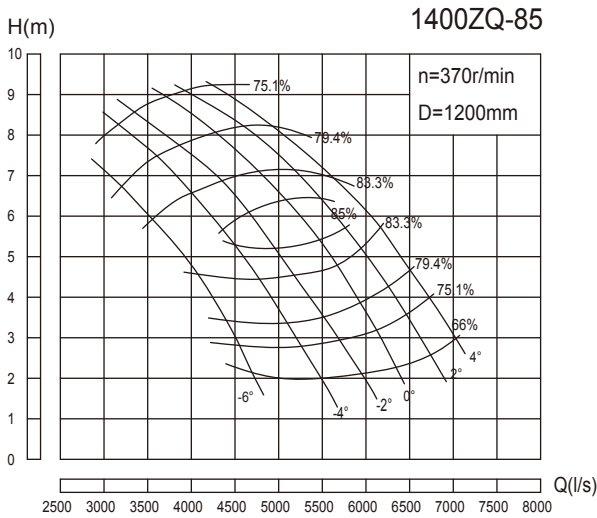
1400ZQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



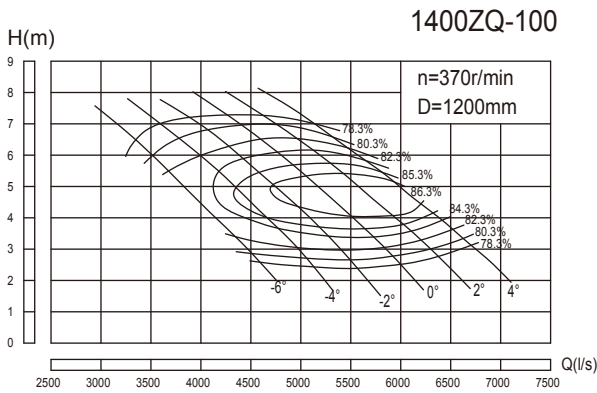
1400ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |



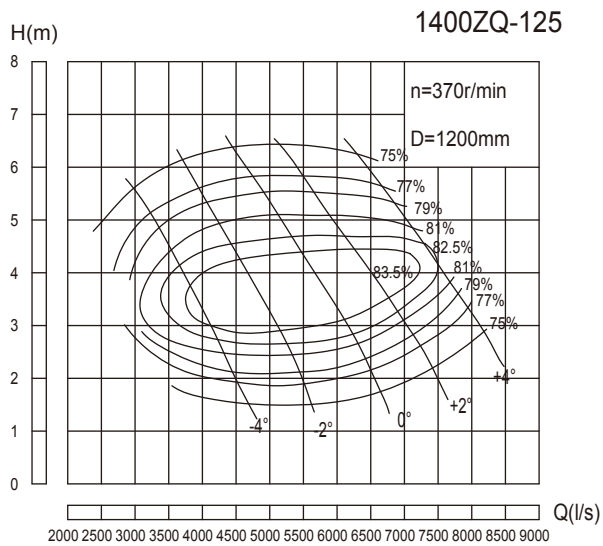
1400ZQ-85 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 15932.5 | 4425.7 | 2.91 | 370 | 168 | 315 | 75.2 | 1200 |
| | 14580.4 | 4050.1 | 4.42 | | 208.6 | | | |
| | 10288.4 | 2857.9 | 7.45 | | 277.8 | | | |
| -4° | 18460.4 | 5127.9 | 2.81 | | 188 | 355 | 75.2 | |
| | 15756.1 | 4376.7 | 5.42 | | 273.1 | | | |
| | 11288.2 | 3135.6 | 7.91 | | 323.6 | | | |
| -2° | 20753.6 | 5764.9 | 2.91 | | 218.8 | 400 | 75.2 | |
| | 17931.6 | 4981 | 5.31 | | 304.5 | | | |
| | 12404.9 | 3445.8 | 8.28 | | 372.2 | | | |
| 0° | 22340.9 | 6205.8 | 3.18 | | 257.4 | 450 | 75.2 | |
| | 19636.6 | 5454.6 | 5.51 | | 342 | | | |
| | 13639.7 | 3788.8 | 8.59 | | 424.6 | | | |
| +2° | 23869.4 | 6630.4 | 3.65 | 315.7 | 560 | 75.2 | | |
| | 20988.7 | 5830.2 | 5.89 | 395.4 | | | | |
| | 14874.5 | 4131.8 | 8.84 | 476.5 | | | | |
| +4° | 25398 | 7055 | 4.09 | 376.4 | 560 | 75.2 | | |
| | 21458.9 | 5960.8 | 6.66 | 462.5 | | | | |
| | 16226.6 | 4507.4 | 8.83 | 519.2 | | | | |



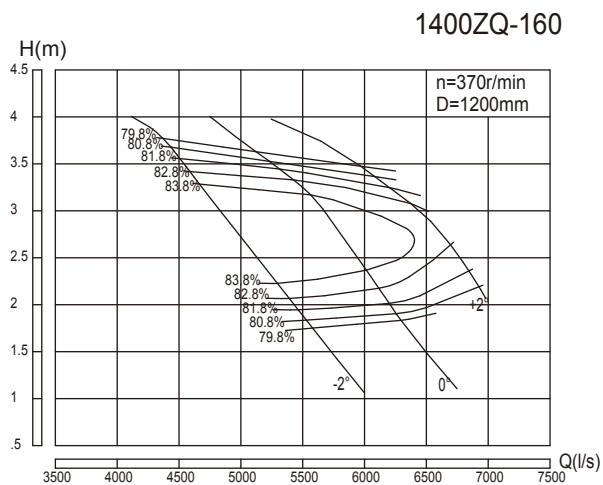
1400ZQ-100 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 15638.8 | 4344.1 | 3.33 | 370 | 172.4 | 315 | 82.3 | 1200 |
| | 14698.1 | 4082.8 | 4.2 | | 200.5 | | | |
| | 13228.2 | 3674.5 | 5.52 | | 241.8 | | | |
| -4° | 17872.6 | 4964.6 | 3.05 | | 180.5 | 315 | 82.3 | |
| | 16461.7 | 4572.7 | 4.27 | | 224.3 | | | |
| | 14374.4 | 3992.9 | 5.99 | | 285.1 | | | |
| -2° | 19460.2 | 5405.6 | 2.97 | | 191.4 | 355 | 82.3 | |
| | 17931.6 | 4981 | 4.39 | | 249.4 | | | |
| | 15403.3 | 4278.7 | 6.28 | | 320.3 | | | |
| 0° | 20988.7 | 5830.2 | 3.06 | | 212.7 | 400 | 82.3 | |
| | 19401.1 | 5389.2 | 4.38 | | 268.3 | | | |
| | 16549.9 | 4597.2 | 6.51 | | 356.7 | | | |
| +2° | 22340.9 | 6205.8 | 3.3 | 244.1 | 400 | 82.3 | | |
| | 20577.2 | 5715.9 | 4.62 | 298.5 | | | | |
| | 17872.6 | 4964.6 | 6.53 | 386.4 | | | | |
| +4° | 23516.6 | 6532.4 | 3.63 | 282.6 | 450 | 82.3 | | |
| | 22046.8 | 6124.1 | 4.64 | 322.3 | | | | |
| | 19695.2 | 5470.9 | 6.25 | 407.6 | | | | |



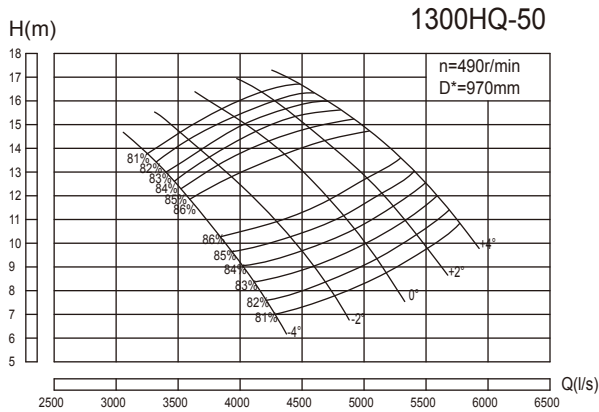
1400ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|--------|-----------------|--------------|-------------|-----------------------|------------------------|------|
| | (m ³ /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 | | 1200 |
| | 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 | | 1200 |
| | 21282.5 | 5911.8 | 3.6 | | 247.1 | | 84.5 | | |
| | 17108.3 | 4752.3 | 5.83 | | 353 | | 77 | | |
| $+2^\circ$ | 25692.1 | 7136.7 | 2.81 | | 249 | 400 | 79 | | 1200 |
| | 23634.4 | 6565.1 | 3.73 | | 286.3 | | 83.9 | | |
| | 20170 | 5603.6 | 5.53 | | 381.6 | | 78 | | |
| $+4^\circ$ | 28043.6 | 7789.9 | 3.6 | 348.2 | 500 | 79 | 1200 | | |
| | 26867.9 | 7463.3 | 4.13 | 365.2 | | 82.8 | | | |
| | 23987.2 | 6753.1 | 5.54 | 460.8 | | 78 | | | |



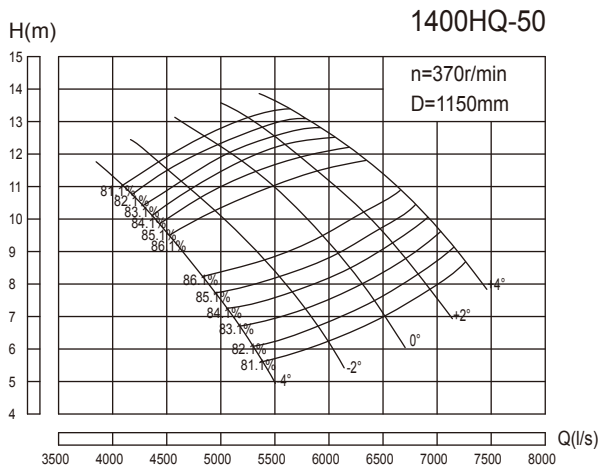
1400ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|
| | (m ³ /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 | | 1200 |
| | 21165.1 | 5879.2 | 2.6 | | 177.9 | | 84.3 | | |
| | 18853.2 | 5237 | 3.52 | | 223.8 | | 80.8 | | |
| $+2^\circ$ | 24934.3 | 6926.2 | 2.19 | | 184.2 | 280 | 80.8 | | 1200 |
| | 23634.4 | 6565.1 | 2.81 | | 218.6 | | 82.8 | | |
| | 21895.9 | 6082.2 | 3.37 | | 248.9 | | 80.8 | | |



1300HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|-----|
| | (m ³ /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 | | 970 |
| | 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 | | 970 |
| | 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 | | 970 |
| | 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 | 970 | | |
| | 18094 | 5026.1 | 14.8 | 848.5 | | 86 | | | |
| | 16531.2 | 4592 | 16.36 | 898.8 | | 82 | | | |



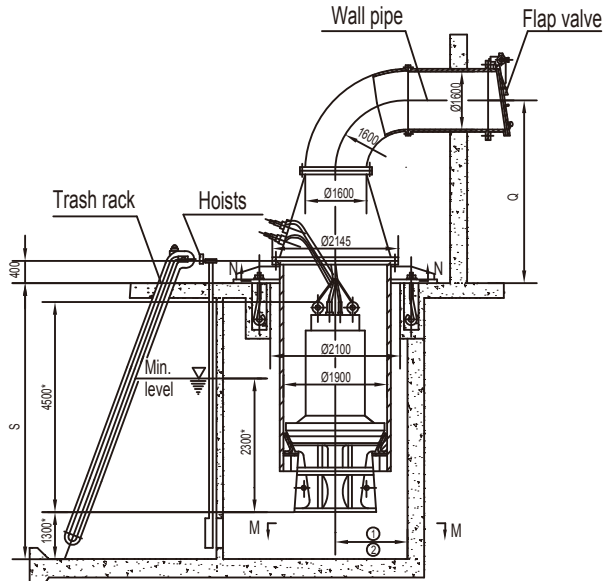
1400HQ-50 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|
| | (m ³ /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 | | 1150 |
| | 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 | | 1150 |
| | 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 | | 1150 |
| | 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 | 1150 | | |
| | 22767.8 | 6324.4 | 11.86 | 853.6 | | 86.2 | | | |
| | 20801.5 | 5778.2 | 13.11 | 904.1 | | 82.2 | | | |

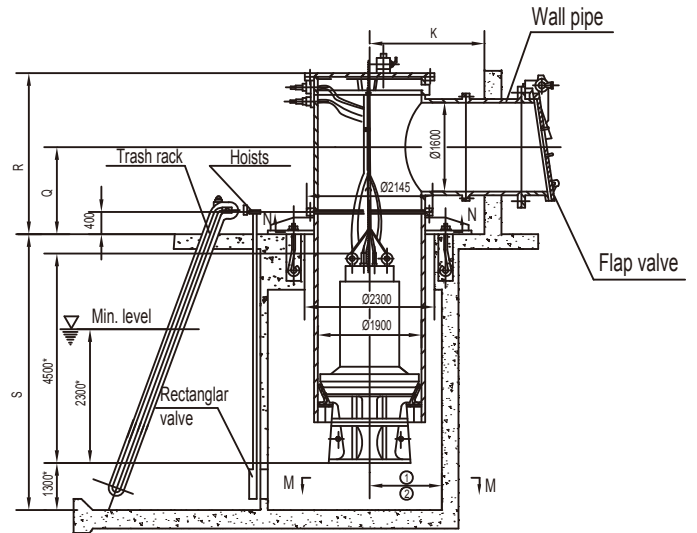
1400ZQ-50, 1400ZQ-70, 1400ZQ-85, 1400ZQ-100, 1400ZQ-125, 1400ZQ-160, 1300HQ-50
1400HQ-50

Outside installation dimensions drawing

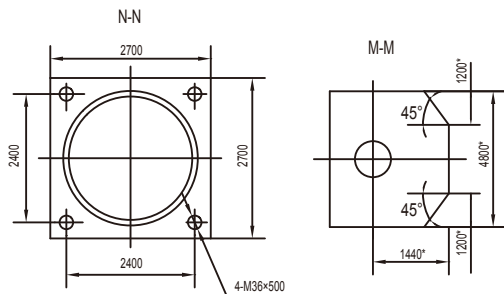
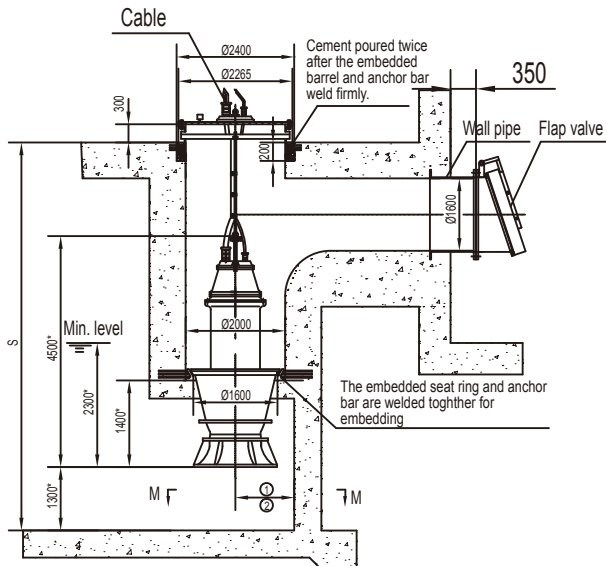
1. Suspension installation with bent pipe



2. Suspension installation with pitshaft



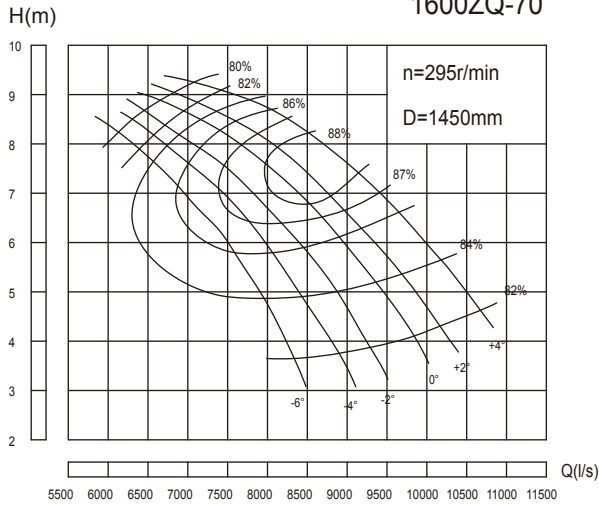
3. Installation with prefabricated concrete



Note: S,Q,R,K according to customer request

- ① Advise the distance should be 290× between pump center and wall
- ② The distance between two pump should be more than 1200×
- ③ The dimension with* is just for reference

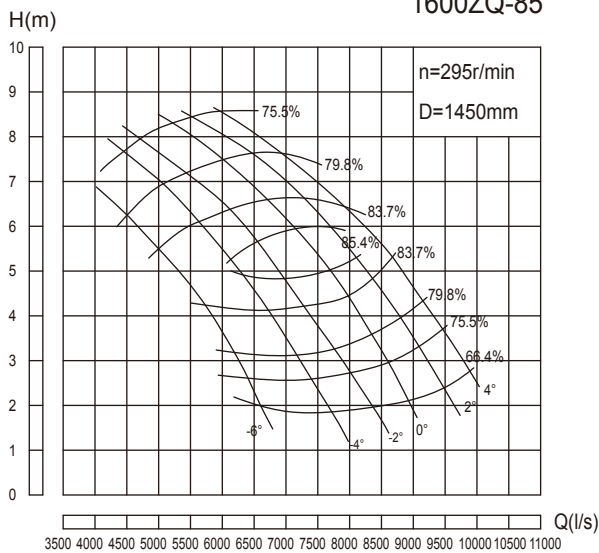
1600ZQ-70



1600ZQ-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /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 | | 1450 | | |
| | 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 | | | 1450 | |
| | 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 | | | | 1450 |
| | 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 | 1450 | | | | |
| | 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 | | 1450 | | | |
| | 31590.7 | 8775.2 | 7.93 | 775.7 | | 88 | | | | | |
| | 25553.9 | 7098.3 | 9.28 | 807.8 | | 80 | | | | | |

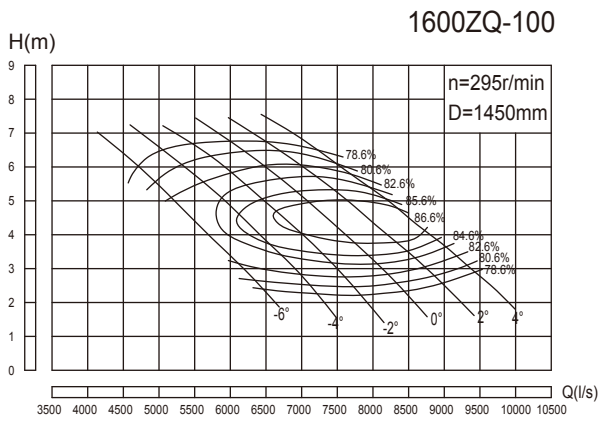
1600ZQ-85



1600ZQ-85 Performance parameter list

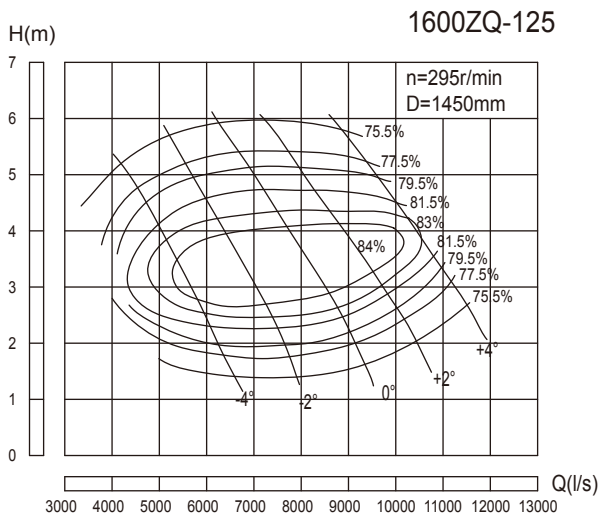
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /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 | | 1450 | | |
| | 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 | | | 1450 | |
| | 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 | | | | 1450 |
| | 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 | 1450 | | | | |
| | 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 | | 1450 | | | |
| | 30184.9 | 8384.7 | 6.18 | 600.9 | | 84.6 | | | | | |
| | 22824.7 | 6340.2 | 8.2 | 674.6 | | 75.6 | | | | | |

ZQ, HQ Series Submersible Axial Flow Pump, Mixed Flow Pump



1600ZQ-100 Performance parameter list

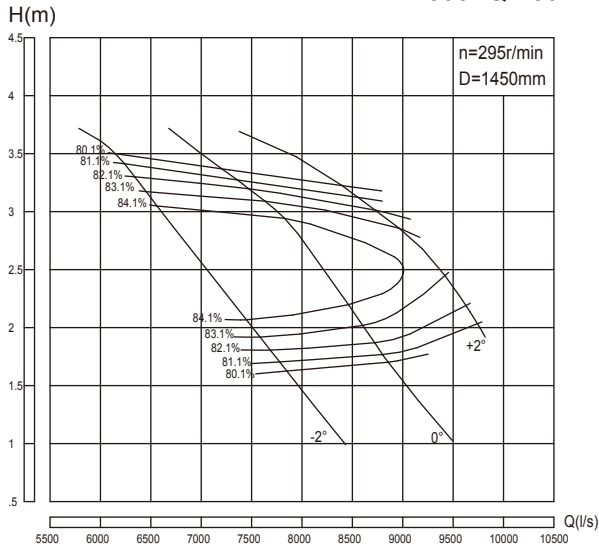
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|
| | (m ³ /h) | (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 | | 1450 |
| | 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 | | 1450 |
| | 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 | | 1450 |
| | 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 | 1450 | | |
| | 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 | 1450 | | |
| | 31011.8 | 8614.4 | 4.3 | 418.2 | | 86.9 | | | |
| | 27703.8 | 7695.5 | 5.8 | 529.5 | | 82.7 | | | |



1600ZQ-125 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|
| | (m ³ /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 | | 1450 |
| | 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 | | 1450 |
| | 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 | | 1450 |
| | 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 | 1450 | | |
| | 37793.2 | 10498.1 | 3.83 | 473.5 | | 83.3 | | | |
| | 33741 | 9372.5 | 5.23 | 620.5 | | 77.5 | | | |

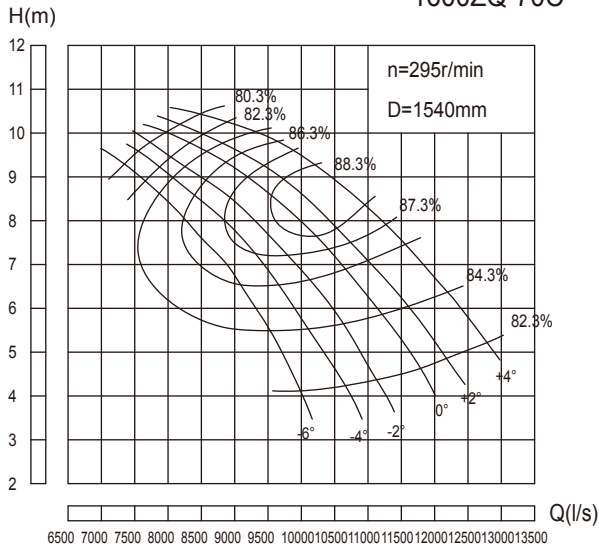
1600ZQ-160



1600ZQ-160 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|--------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 22451 | 6236.4 | 3.41 | | 256.9 | | 81.2 | |
| 0° | 31651.2 | 8792 | 1.76 | | 186.9 | 315 | 81.2 | |
| | 29771.3 | 8269.8 | 2.42 | | 231.8 | | 84.7 | |
| | 26519.8 | 7366.6 | 3.27 | | 291 | | 81.2 | |
| +2° | 35073.4 | 9742.6 | 2.03 | | 238.9 | 355 | 81.2 | |
| | 33244.6 | 9234.6 | 2.61 | | 284.2 | | 83.2 | |
| | 30799.4 | 8555.4 | 3.12 | | 322.5 | | 81.2 | |

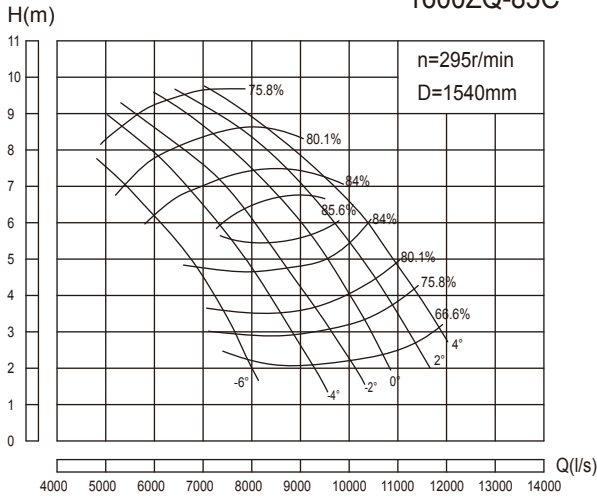
1600ZQ-70C



1600ZQ-70C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | 1000 | 82.3 | |
| | 32495.8 | 9026.6 | 7.63 | | 772.2 | | 87.5 | |
| | 27245.2 | 7568.1 | 9.69 | | 895.9 | | 80.3 | |
| -2° | 40124.5 | 11145.7 | 4.36 | | 579.2 | 1000 | 82.3 | |
| | 34180.2 | 9494.5 | 7.96 | | 845.4 | | 87.7 | |
| | 27839.5 | 7733.2 | 9.82 | | 927.7 | | 80.3 | |
| 0° | 42106 | 11696.1 | 4.69 | | 653.9 | 1100 | 82.3 | |
| | 35567.3 | 9879.8 | 8.31 | | 907 | | 88.8 | |
| | 28532.9 | 7925.8 | 10.14 | | 981.8 | | 80.3 | |
| +2° | 43592 | 12108.9 | 4.91 | | 708.7 | 1100 | 82.3 | |
| | 36459 | 10127.5 | 8.4 | | 935.6 | | 89.2 | |
| | 28830.2 | 8008.4 | 10.25 | | 1002.8 | | 80.3 | |
| +4° | 45771.8 | 12714.4 | 5.34 | | 809.3 | 1200 | 82.3 | |
| | 37845.7 | 10512.7 | 8.94 | | 1044.1 | | 88.3 | |
| | 30613.7 | 8503.8 | 10.47 | | 1087.7 | | 80.3 | |

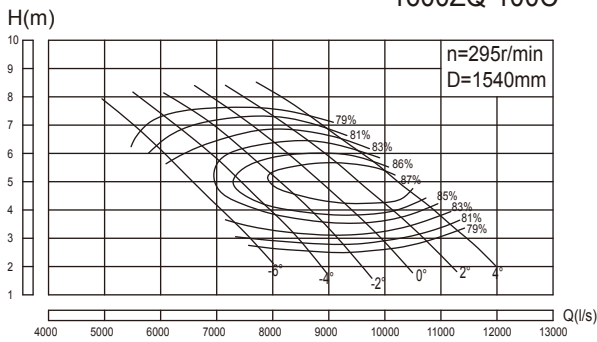
1600ZQ-85C



1600ZQ-85C Performance parameter list

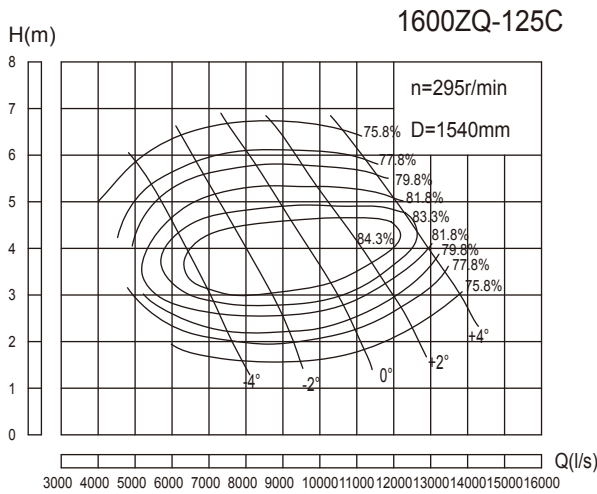
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /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 | | 75.9 | | | | |
| | 17337.6 | 4816 | 7.8 | | 485.5 | | 75.9 | | | | |
| -4° | 31109 | 8641.4 | 2.94 | | 328.4 | 630 | 75.9 | | 1540 | | |
| | 26551.4 | 7375.4 | 5.67 | | 477.6 | | 85.9 | | | | |
| | 19022 | 5283.9 | 8.28 | | 565.5 | | 75.9 | | | | |
| -2° | 34972.6 | 9714.6 | 3.04 | | 381.7 | 710 | 75.9 | | | 1540 | |
| | 30217.3 | 8393.7 | 5.56 | | 533 | | 85.9 | | | | |
| | 20904.5 | 5806.8 | 8.67 | | 650.7 | | 75.9 | | | | |
| 0° | 37647.7 | 10457.7 | 3.33 | | 450.1 | 800 | 75.9 | | | | 1540 |
| | 33090.5 | 9191.8 | 5.77 | | 598.7 | | 86.9 | | | | |
| | 22984.9 | 6384.7 | 9 | | 742.7 | | 75.9 | | | | |
| +2° | 40223.5 | 11173.2 | 3.82 | 551.7 | 900 | 75.9 | 1540 | | | | |
| | 35368.9 | 9824.7 | 6.16 | 691.2 | | 85.9 | | | | | |
| | 25065.4 | 6962.6 | 9.26 | 833.3 | | 75.9 | | | | | |
| +4° | 42799.3 | 11888.7 | 4.29 | 659.2 | 1000 | 75.9 | | 1540 | | | |
| | 36161.6 | 10044.9 | 6.97 | 809 | | 84.9 | | | | | |
| | 27344.2 | 7595.6 | 9.25 | 908.1 | | 75.9 | | | | | |

1600ZQ-100C



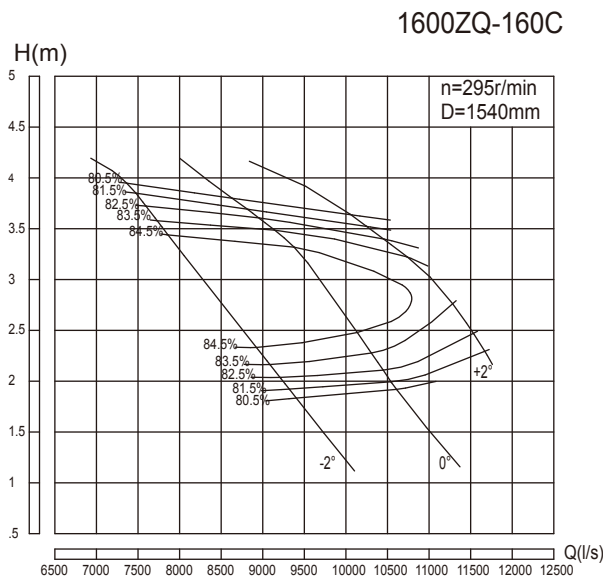
1600ZQ-100C Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /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 | 560 | 83 | | 1540 | | |
| | 27740.5 | 7705.7 | 4.47 | | 392.5 | | 86.1 | | | | |
| | 24223.3 | 6728.7 | 6.27 | | 498.6 | | 83 | | | | |
| -2° | 32793.1 | 9109.2 | 3.11 | | 334.8 | 630 | 83 | | | 1540 | |
| | 30217.3 | 8393.7 | 4.59 | | 435.9 | | 86.7 | | | | |
| | 25957.1 | 7210.3 | 6.58 | | 560.8 | | 83 | | | | |
| 0° | 35368.9 | 9824.7 | 3.21 | | 372.7 | 710 | 83 | | | | 1540 |
| | 32694.1 | 9081.7 | 4.58 | | 469 | | 87 | | | | |
| | 27889.2 | 7747 | 6.82 | | 624.5 | | 83 | | | | |
| +2° | 37647.7 | 10457.7 | 3.46 | 427.7 | 800 | 83 | 1540 | | | | |
| | 34675.6 | 9632.1 | 4.83 | 521.6 | | 87.5 | | | | | |
| | 30118.3 | 8366.2 | 6.84 | 676.4 | | 83 | | | | | |
| +4° | 39629.2 | 11008.1 | 3.8 | 494.4 | 800 | 83 | | 1540 | | | |
| | 37152.4 | 10320.1 | 4.85 | 563.1 | | 87.2 | | | | | |
| | 33189.5 | 9219.3 | 6.54 | 712.6 | | 83 | | | | | |



1600ZQ-125C Performance parameter list

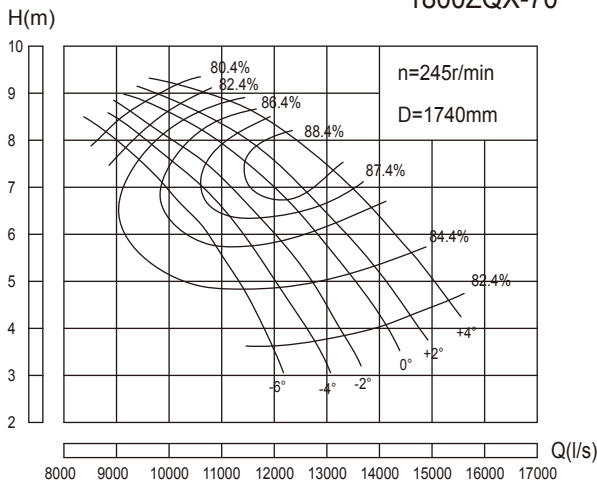
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s)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



1600ZQ-160C Performance parameter list

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

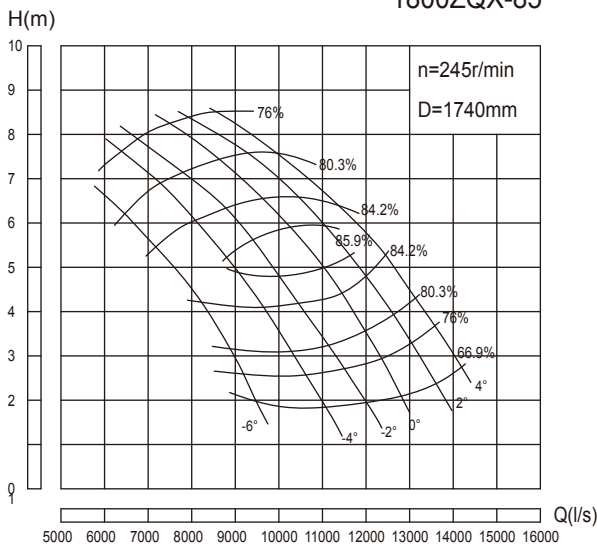
1800ZQX-70



1800ZQX-70 Performance parameter list

| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |
| -2° | 48066.1 | 13351.7 | 3.84 | | 610.4 | 1100 | 82.4 | |
| | 40945.3 | 11373.7 | 7.01 | | 890.8 | | 87.8 | |
| 0° | 33349.7 | 9263.8 | 8.64 | | 976.6 | 1100 | 80.4 | |
| | 50440 | 14011.1 | 4.13 | | 688.9 | | 82.4 | |
| | 42606.7 | 11835.2 | 7.32 | | 956 | | 88.9 | |
| +2° | 34180.6 | 9494.6 | 8.93 | | 1034.5 | 1200 | 80.4 | |
| | 52220.2 | 14505.6 | 4.32 | | 746 | | 82.4 | |
| | 43674.8 | 12131.9 | 7.4 | 986.2 | 89.3 | | | |
| +4° | 34536.6 | 9593.5 | 9.03 | 1057 | 1200 | 80.4 | | |
| | 54830.9 | 15230.8 | 4.71 | 854.1 | | 82.4 | | |
| | 45336.6 | 12593.5 | 7.88 | 1101.3 | | 88.4 | | |
| | 36672.8 | 10186.9 | 9.22 | 1146 | | 80.4 | | |

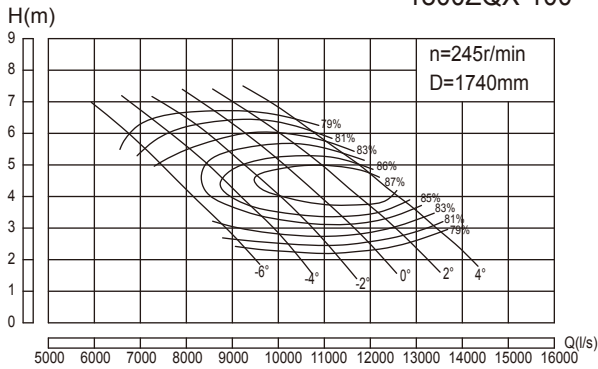
1800ZQX-85



1800ZQX-85 Performance parameter list

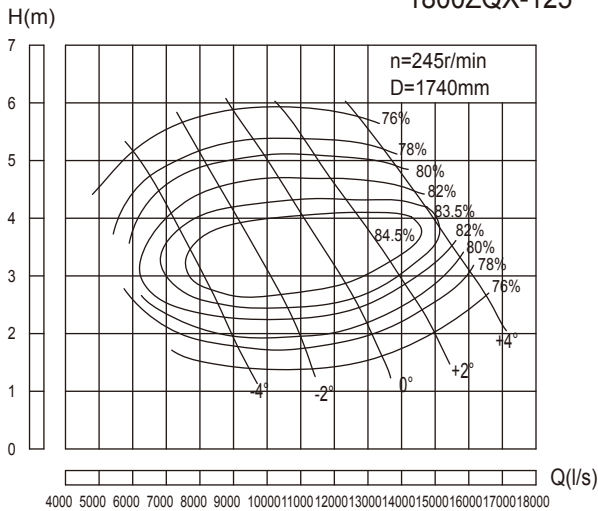
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | 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 | |
| -2° | 22786.9 | 6329.7 | 7.29 | | 594.8 | 710 | 76.1 | |
| | 41894.6 | 11637.4 | 2.68 | | 402 | | 76.1 | |
| 0° | 36198 | 10055 | 4.9 | | 561.4 | 900 | 86.1 | |
| | 25042 | 6956.1 | 7.64 | | 685.1 | | 76.1 | |
| +2° | 45099 | 12527.5 | 2.93 | | 473.2 | 1000 | 76.1 | |
| | 39639.6 | 11011 | 5.08 | | 630 | | 87.1 | |
| | 27534.2 | 7648.4 | 7.92 | | 780.9 | | 76.1 | |
| +4° | 48184.9 | 13384.7 | 3.36 | 579.7 | 1100 | 76.1 | | |
| | 42369.5 | 11769.3 | 5.43 | 728.1 | | 86.1 | | |
| | 30026.5 | 8340.7 | 8.15 | 876.3 | | 76.1 | | |
| | 51270.5 | 14241.8 | 3.77 | 692.1 | | 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 list

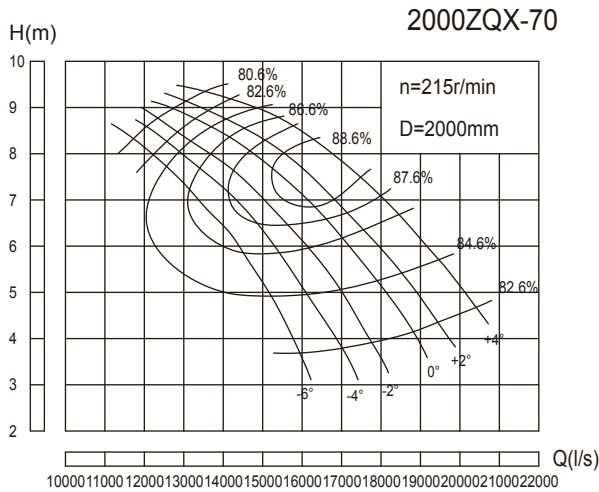


| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -6° | 31569.5 | 8769.3 | 3.07 | 245 | 317.8 | 500 | 83.1 | 1740 | | | |
| | 29670.5 | 8241.8 | 3.87 | | 369.4 | | 84.7 | | | | |
| | 26703.4 | 7417.6 | 5.09 | | 445.7 | | 83.1 | | | | |
| -4° | 36079.2 | 10022 | 2.81 | | 332.5 | 560 | 83.1 | | 1740 | | |
| | 33230.9 | 9230.8 | 3.94 | | 413.9 | | 86.2 | | | | |
| | 29017.8 | 8060.5 | 5.52 | | 525.3 | | 83.1 | | | | |
| -2° | 39283.6 | 10912.1 | 2.74 | | 353 | 630 | 83.1 | | | 1740 | |
| | 36198 | 10055 | 4.04 | | 459.1 | | 86.8 | | | | |
| | 31094.6 | 8637.4 | 5.79 | | 590.4 | | 83.1 | | | | |
| 0° | 42369.5 | 11769.3 | 2.82 | | 391.8 | 710 | 83.1 | | | | 1740 |
| | 39165.1 | 10879.2 | 4.03 | | 493.8 | | 87.1 | | | | |
| | 33409.1 | 9280.3 | 6 | | 657.3 | | 83.1 | | | | |
| +2° | 45099 | 12527.5 | 3.04 | 449.6 | 800 | 83.1 | 1740 | | | | |
| | 41538.6 | 11538.5 | 4.25 | 549.2 | | 87.6 | | | | | |
| | 36079.2 | 10022 | 6.02 | 712.2 | | 83.1 | | | | | |
| +4° | 47472.8 | 13186.9 | 3.34 | 519.9 | 800 | 83.1 | | 1740 | | | |
| | 44505.7 | 12362.7 | 4.27 | 593.2 | | 87.3 | | | | | |
| | 39758.4 | 11044 | 5.76 | 751 | | 83.1 | | | | | |

1800ZQX-125 1800ZQX-125 Performance parameter list

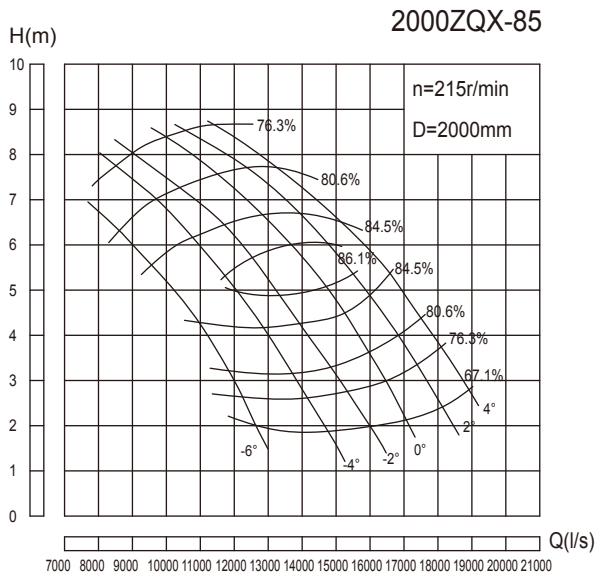


| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) | | | |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|------|------|------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | | | | |
| -4° | 32281.6 | 8967.1 | 1.96 | 245 | 215.5 | 450 | 80 | 1740 | | | |
| | 29433.2 | 8175.9 | 2.91 | | 276.2 | | 84.5 | | | | |
| | 23499 | 6527.5 | 4.73 | | 388.3 | | 78 | | | | |
| -2° | 39521.2 | 10978.1 | 1.95 | | 262.5 | 560 | 80 | | 1740 | | |
| | 36435.2 | 10120.9 | 3.02 | | 353.2 | | 84.9 | | | | |
| | 28721.2 | 7978.1 | 5.13 | | 514.7 | | 78 | | | | |
| 0° | 46642 | 12956.1 | 2.19 | | 347.9 | 710 | 80 | | | 1740 | |
| | 42962.8 | 11934.1 | 3.32 | | 454.6 | | 85.5 | | | | |
| | 34536.6 | 9593.5 | 5.38 | | 649.1 | | 78 | | | | |
| +2° | 51864.1 | 14406.7 | 2.59 | | 457.6 | 800 | 80 | | | | 1740 |
| | 47710.1 | 13252.8 | 3.44 | | 526.8 | | 84.9 | | | | |
| | 39995.6 | 11109.9 | 5.38 | | 751.7 | | 78 | | | | |
| +4° | 56611.4 | 15725.4 | 3.32 | 640.2 | 900 | 80 | 1740 | | | | |
| | 54237.6 | 15066 | 3.8 | 670.2 | | 83.8 | | | | | |
| | 48422.2 | 13450.6 | 5.2 | 879.7 | | 78 | | | | | |



2000ZQX-70 Performance parameter list

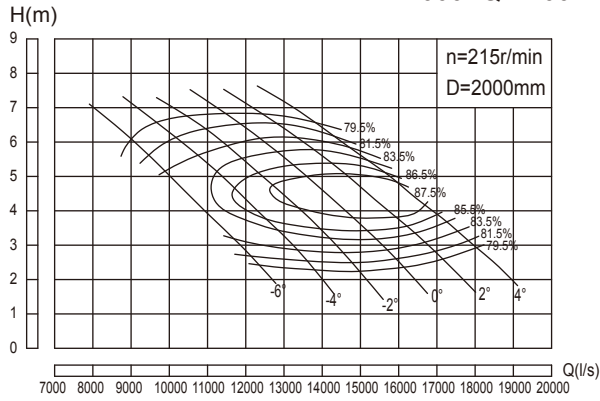
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 56938 | 15816.1 | 3.66 | 215 | 686.7 | 1100 | 82.7 | 2000 |
| | 50611.3 | 14058.7 | 6.45 | | 1026 | | 86.7 | |
| | 46080 | 12800 | 7.6 | | 1086 | | 82.6 | |
| -4° | 60891.8 | 16914.4 | 3.76 | | 754.4 | 1200 | 82.7 | |
| | 51876.7 | 14410.2 | 6.84 | | 1100 | | 87.9 | |
| | 46440.3 | 12900.1 | 8.0 | | 1144 | | 86.6 | |
| -2° | 64055.2 | 17793.1 | 3.91 | | 825.3 | 1200 | 82.7 | |
| | 54565.6 | 15157.1 | 7.13 | | 1203.4 | | 88.1 | |
| | 44082.2 | 12245.3 | 8.2 | | 1113.5 | | 86.6 | |
| 0° | 67218.5 | 18671.8 | 4.2 | | 930.2 | 1300 | 82.7 | |
| | 56779.9 | 15772.2 | 7.45 | | 1292.3 | | 89.2 | |
| | 50760.1 | 14100 | 8.0 | | 1251.4 | | 80.7 | |
| +2° | 69590.9 | 19330.8 | 4.4 | 1008.9 | 1400 | 82.7 | | |
| | 58203.4 | 16167.6 | 7.52 | 1331.1 | | 89.6 | | |
| | 54000.0 | 15000 | 8.2 | 1358 | | 87 | | |
| +4° | 73070.3 | 20297.3 | 4.79 | 1153.3 | 1500 | 82.7 | | |
| | 60417.4 | 16782.6 | 8.01 | 1486.7 | | 88.7 | | |
| | 48871.8 | 15200 | 8.6 | 1443.6 | | 80.7 | | |



2000ZQX-85 Performance parameter list

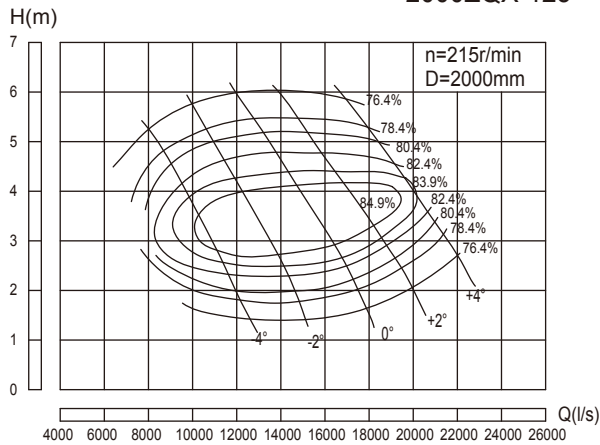
| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /h) | (l/s) | | | Shaft Power | Motor Power | | |
| -6° | 42861.6 | 11906 | 2.73 | 215 | 417.4 | 800 | 76.4 | 2000 |
| | 39223.8 | 10895.5 | 4.14 | | 518.2 | | 85.4 | |
| | 27678.2 | 7688.4 | 6.99 | | 690.1 | | 76.4 | |
| -4° | 49662.4 | 13795.1 | 2.64 | | 467.6 | 900 | 76.4 | |
| | 42387.1 | 11774.2 | 5.08 | | 679.1 | | 86.4 | |
| | 30366.7 | 8435.2 | 7.42 | | 803.7 | | 76.4 | |
| -2° | 55831 | 15508.6 | 2.73 | | 543.6 | 1000 | 76.4 | |
| | 48238.9 | 13399.7 | 4.98 | | 757.7 | | 86.4 | |
| | 33372 | 9270 | 7.77 | | 924.9 | | 76.4 | |
| 0° | 60101.3 | 16694.8 | 2.98 | | 638.8 | 1200 | 76.4 | |
| | 52825.7 | 14673.8 | 5.17 | | 851.5 | | 87.4 | |
| | 36693.4 | 10192.6 | 8.06 | | 1054.9 | | 76.4 | |
| +2° | 64213.2 | 17837 | 3.42 | 783.3 | 1250 | 76.4 | | |
| | 56463.5 | 15684.3 | 5.52 | 983 | | 86.4 | | |
| | 40014.7 | 11115.2 | 8.3 | 1184.6 | | 76.4 | | |
| +4° | 68325.5 | 18979.3 | 3.84 | 935.8 | 1300 | 76.4 | | |
| | 57728.9 | 16035.8 | 6.24 | 1149.4 | | 85.4 | | |
| | 43652.5 | 12125.7 | 8.29 | 1290.7 | | 76.4 | | |

2000ZQX-100 2000ZQX-100 Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | | |
| | 35586.4 | 9885.1 | 5.18 | | 601.6 | | | |
| -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 | | |

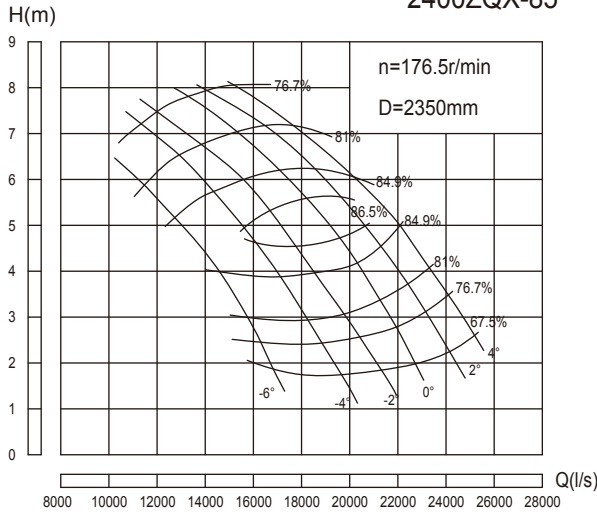
2000ZQX-125 2000ZQX-125 Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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

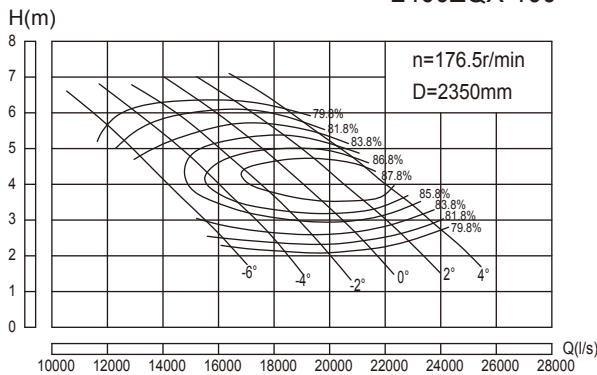
2400ZQX-85 Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |

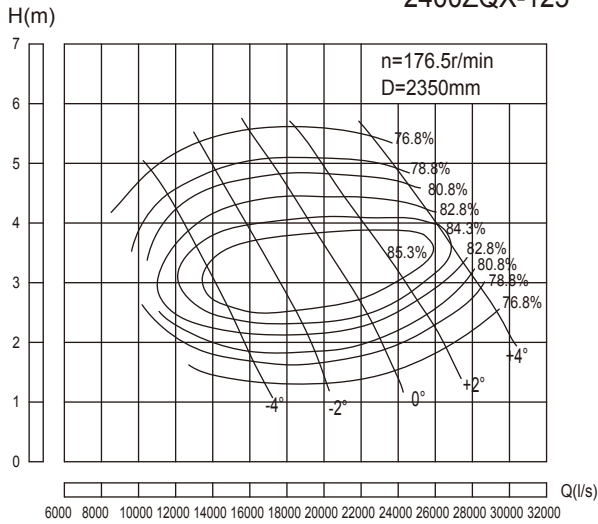
2400ZQX-100

2400ZQX-100 Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | | |

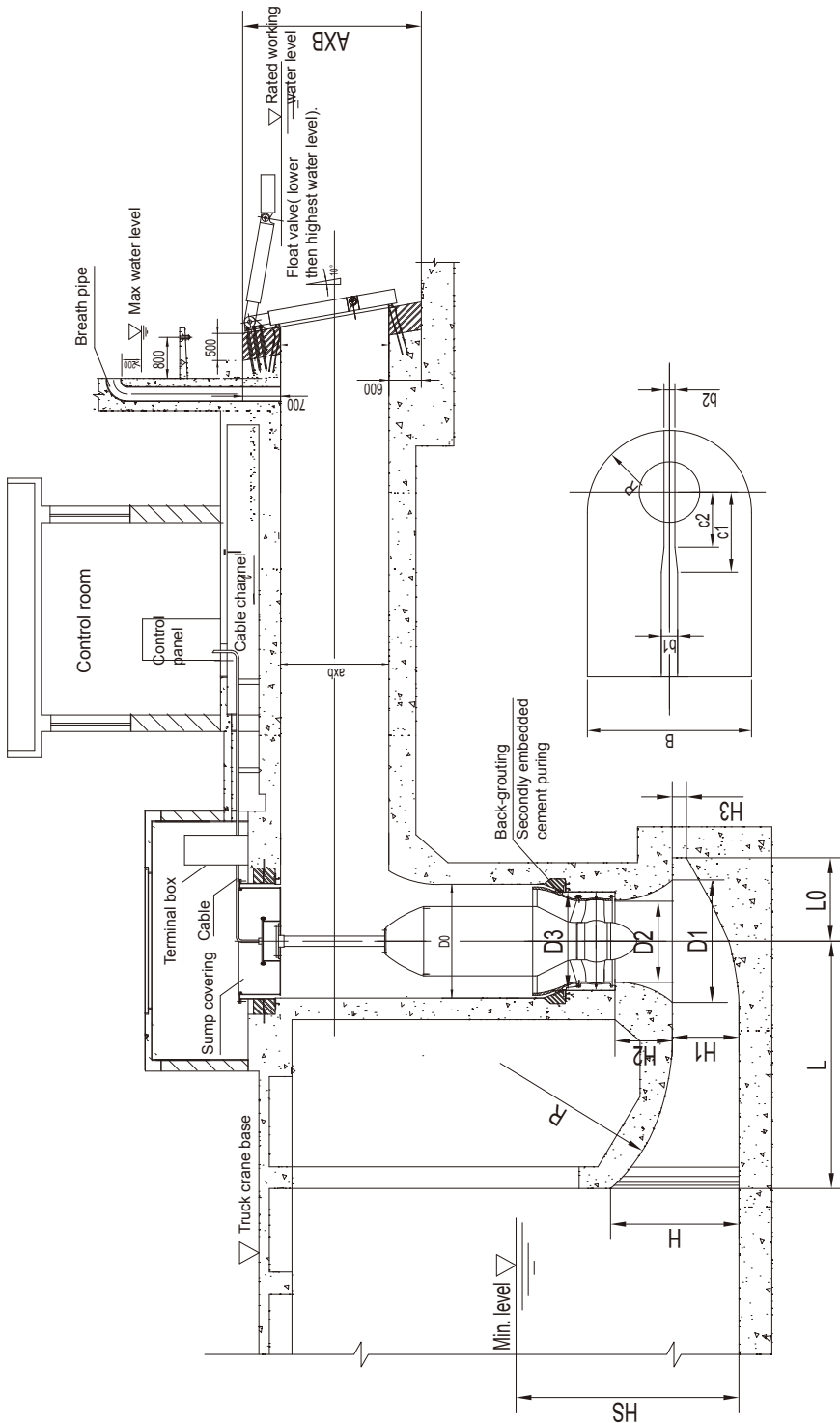
2400ZQX-125 2400ZQX-125 Performance parameter list



| Blade angle | Capacity Q | | Head H (m) | Speed n (r/min) | Power P (kW) | | Efficiency η (%) | Impeller diameter (mm) |
|-------------|---------------------|---------|------------|-----------------|--------------|-------------|-----------------------|------------------------|
| | (m ³ /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 | |

6. Large submersible axial/mixed flow pump dustpan and elbow type flow channel concrete prefabricated wellhole installation dimensions

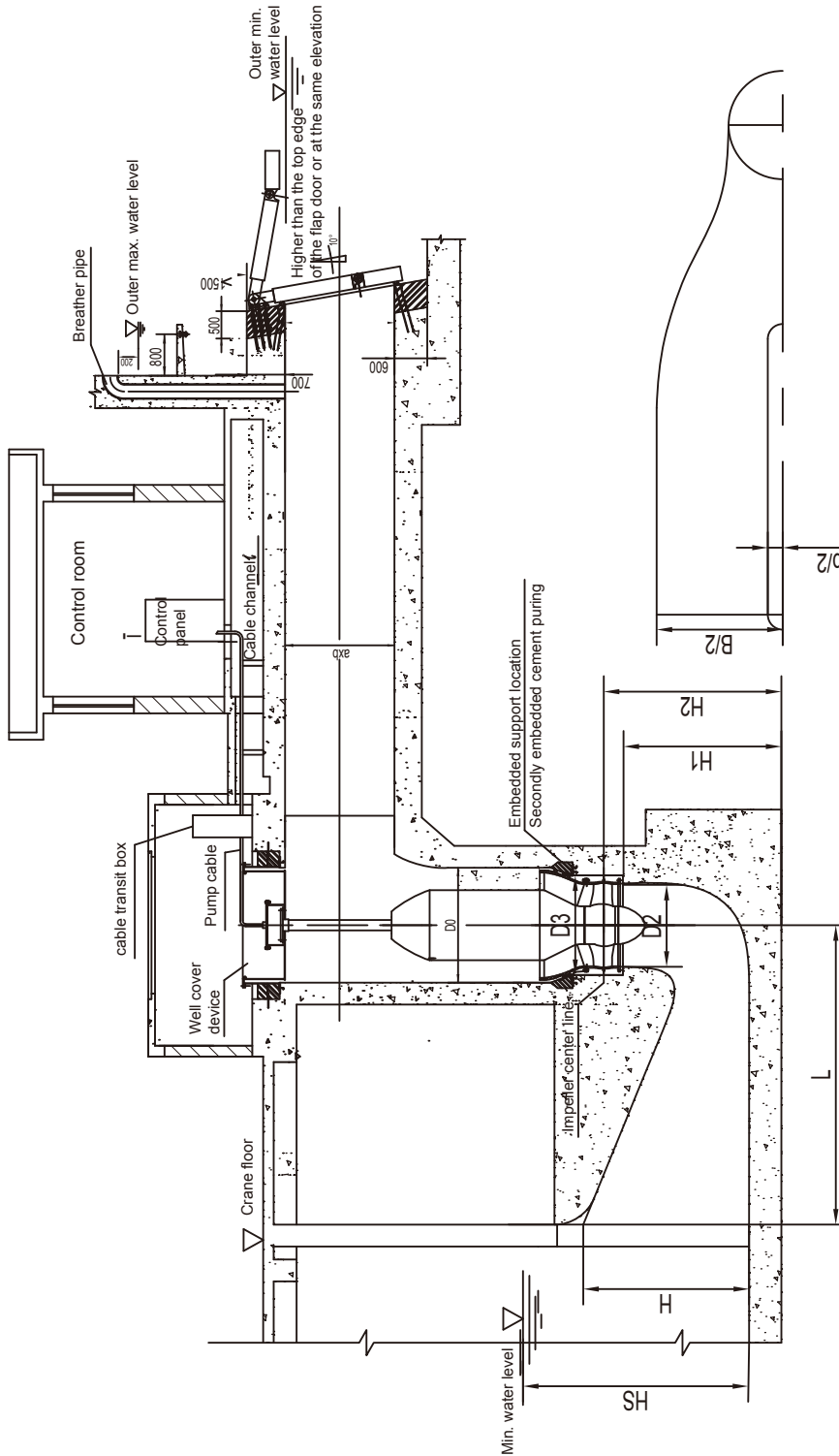
1200-2400 diameter large submersible pump dustpan type inlet flow channel cement wellhole installation dimensions drawing



Large submersible axial/mixed flow pump dustpan and elbow type flow channel concrete prefabricated wellhole installation dimensions table

| Item | Model | n(r/min) | HS | ΦD0 | ΦD1 | ΦD2 | ΦD3 | H | H1 | H2 | H3 | B | L | L0 | C1 | C2 | R | R1 | b1 | b2 | axb |
|------|---------|----------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|-----|-----------|
| 1 | 1200ZQ | 490 | 3700 | 1700 | 1423 | 955 | 1250 | 1527 | 780 | 679 | 165 | 2590 | 2910 | 970 | 1260 | 866 | 2748 | 1293 | 300 | 100 | 1400x1000 |
| 2 | 1400ZQ | 370 | 4200 | 1800 | 1760 | 1180 | 1600 | 1889 | 960 | 840 | 204 | 3200 | 3600 | 1200 | 1562 | 1071 | 3400 | 1600 | 300 | 100 | 1600x2200 |
| 3 | 1600ZQ | 295 | 4700 | 2100 | 2120 | 1427 | 1700 | 2280 | 1160 | 1015 | 246 | 3867 | 4350 | 1450 | 1887 | 1294 | 4108 | 1933 | 400 | 200 | 1800x2400 |
| 4 | 1600ZQC | 295 | 5000 | 2300 | 2259 | 1540 | 1900 | 2424 | 1230 | 1078 | 260 | 4100 | 4620 | 1540 | 2000 | 1375 | 4363 | 2053 | 400 | 200 | 1800X2400 |
| 5 | 1800ZQX | 245 | 5200 | 2400 | 2552 | 1712 | 2000 | 2738 | 1392 | 1277 | 296 | 4640 | 5220 | 1740 | 2371 | 1553 | 4929 | 2320 | 400 | 200 | 1800X2400 |
| 6 | 2000ZQX | 215 | 5800 | 2800 | 2933 | 1968 | 2400 | 3418 | 1600 | 1467 | 340 | 5333 | 6000 | 2000 | 2725 | 1785 | 5666 | 2667 | 400 | 200 | 2400X3000 |
| 7 | 2400ZQX | 176.5 | 6500 | 3200 | 3447 | 2350 | 2750 | 3699 | 1880 | 1644 | 400 | 6276 | 7050 | 2350 | 3058 | 2097 | 6658 | 3133 | 400 | 200 | 2800X3400 |
| 8 | 1200HQ | 490 | 3370 | 1750 | 1320 | 886 | 1500 | 720 | 720 | 630 | 155 | 2400 | 2700 | 900 | 1171 | 800 | 2550 | 1200 | 300 | 100 | 1400x1000 |
| 9 | 1300HQ | 490 | 3540 | 1800 | 1423 | 969 | 1600 | 1527 | 776 | 678 | 165 | 2587 | 2910 | 970 | 1262 | 866 | 2748 | 1293 | 300 | 100 | 1400x1000 |
| 10 | 1400HQ | 370 | 3760 | 2000 | 1687 | 1150 | 1700 | 1810 | 920 | 805 | 195 | 3070 | 3450 | 1150 | 1497 | 1026 | 3258 | 1533 | 300 | 100 | 1600x2200 |

1200-2400 diameter large submersible pump elbow type inlet flow channel cement wellhole installation dimensions drawing



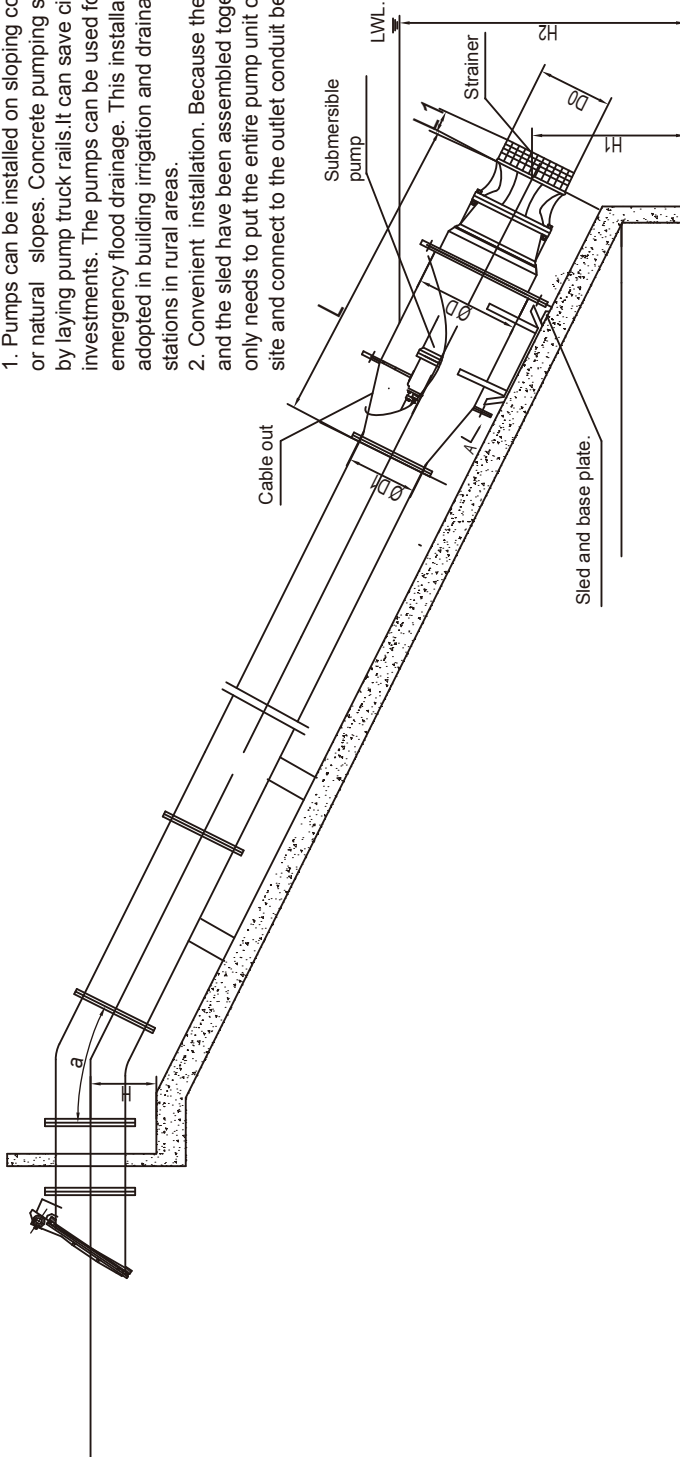
| 1200-2400 diameter large submersible axial/mixed flow pump elbow type flow channel concrete prefabricated wellhole installation dimensions | | | | | | | | | | | | |
|--|---------|--------------|------|------|------|------|------|------|------|------|------|-----------|
| No. | Model | Speed(r/min) | HS | ΦD0 | ΦD2 | ΦD3 | H | H1 | H2 | B | L | axb |
| 1 | 1200ZQ | 490 | 3700 | 1700 | 955 | 1250 | 1940 | 1533 | 1700 | 2260 | 3500 | 1400x1000 |
| 2 | 1400ZQ | 370 | 4200 | 1800 | 1180 | 1600 | 2400 | 1896 | 2103 | 2795 | 4330 | 1600x2200 |
| 3 | 1600ZQ | 295 | 4700 | 2100 | 1427 | 1700 | 2900 | 2292 | 2541 | 3378 | 5232 | 1800x2400 |
| 4 | 1600ZQC | 295 | 5000 | 2300 | 1540 | 1900 | 3080 | 2434 | 2699 | 3588 | 5557 | 1800x2400 |
| 1 | 1800ZQX | 245 | 5500 | 2400 | 1712 | 2000 | 3480 | 2750 | 3049 | 4054 | 6278 | 1800x2400 |
| 2 | 2000ZQX | 215 | 5800 | 2800 | 1968 | 2400 | 4000 | 3161 | 3505 | 4659 | 7216 | 2400x3000 |
| 3 | 2400ZQX | 176.5 | 6500 | 3200 | 2350 | 2750 | 4700 | 3714 | 4119 | 5475 | 8479 | 2800x3400 |
| 5 | 1200HQ | 490 | 3370 | 1750 | 886 | 1500 | 1800 | 1422 | 1577 | 2096 | 3247 | 1400x1000 |
| 6 | 1300HQ | 490 | 3540 | 1800 | 969 | 1600 | 1940 | 1533 | 1700 | 2260 | 3500 | 1400x1000 |
| 7 | 1400HQ | 370 | 3760 | 2000 | 1150 | 1700 | 2300 | 1817 | 2015 | 2679 | 4149 | 1600x2200 |

7. Application of Submersible Pumps Installed in Sled Type

Sled-type Installation Dimensions for 300-900 (caliber) Submersible Axial/Mixed Flow Pumps

Advantages of sled-type installation for submersible pumps:

1. Pumps can be installed on sloping concrete foundations or natural slopes. Concrete pumping station can be saved by laying pump truck rails. It can save civil engineering investments. The pumps can be used for flood control and emergency flood drainage. This installation method can be adopted in building irrigation and drainage pumping stations in rural areas.
2. Convenient installation. Because the submersible pump and the sled have been assembled together at factory, it only needs to put the entire pump unit on the slope on the site and connect to the outlet conduit before pumping.

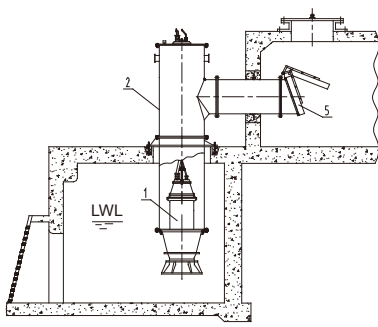


Sled-type pump performance reference to the corresponding submersible pump, we will deliver final drawing when customer decide to order.

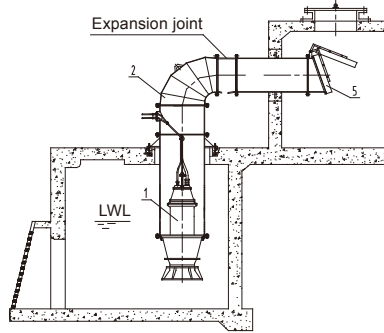
| Sled-type Installation Dimensions for 300-900 (caliber) Submersible Axial/Mixed Flow Pumps | | | | | | | | | | | | |
|--|-----------|-----|------|------|------|------|------|------|-----|----|--|--|
| Item | Pump code | H | H1 | H2 | D | D0 | D1 | L | L1 | a | | |
| 1 | 300ZQ | 320 | 300 | 1050 | 450 | 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 | | | |

8. Other application for different installation form in actual project

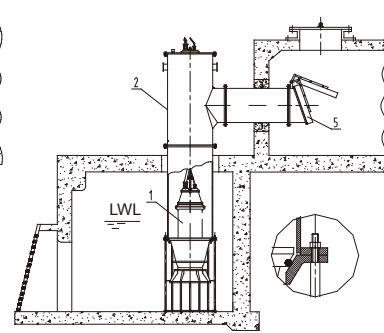
Submersible pump installation form
(all carried out in actual project)



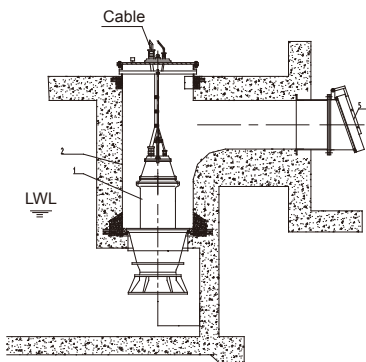
A Wellhole hang



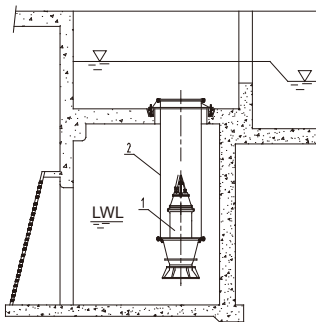
B Elbow hang



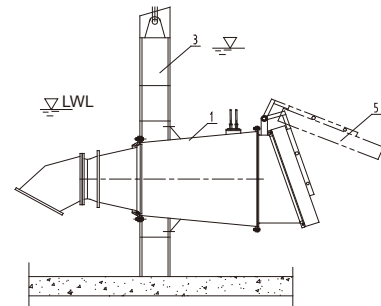
C Wellhole on the ground



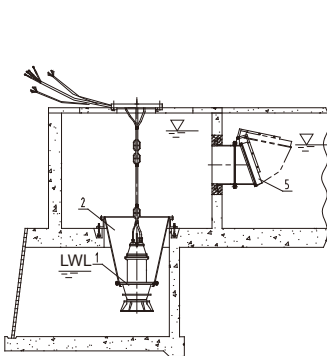
D Cement wellhole



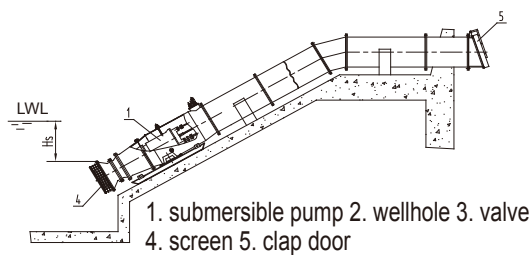
E Open I



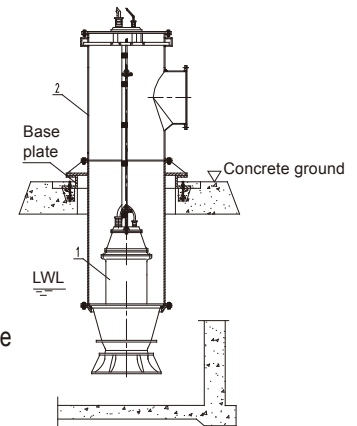
F Valve installation



G Open II
(Used for low head installation)



1. submersible pump 2. wellhole 3. valve
4. screen 5. clap door

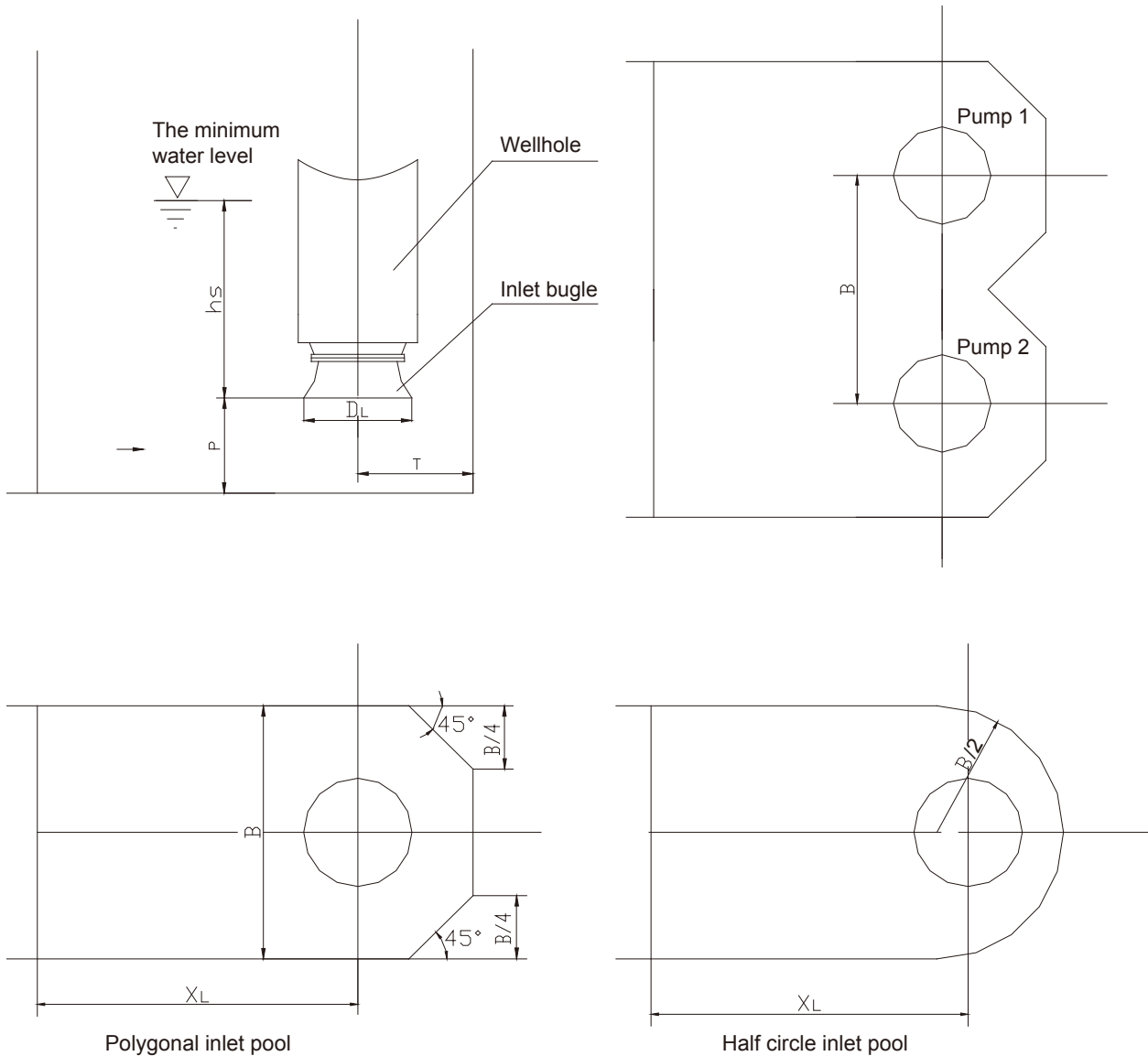


I Wellhole hang dry type installation

Note: The first four kinds of installations are attached with dimensions drawing and table A, D, E, I, installation forms are advised. The other installation forms dimensions will be supplied when asked.

9. Open flow hydraulic deisgn reference

Open suction boxes (suction sumps) have been widely used in small and medium-sized pumping stations due to their simple structure and easy construction. Researchers both at home and abroad have paid much attention to the hydraulic design of this kind of suction box, and have conducted many experimental studies. Many researchers propose their design rules for open suction sumps in the form of empirical coefficients, which are based on experimental results. However, these rules proposed by different researchers vary wildly, and there has not been a unified or optimal hydraulic design rule so far.



| Dimensions of suction sump | Japanese Society of Mechanical Engineers | British Hydromechanics Research Association | American Hydraulic Institute Standards (HIS) | Field measurement at Liyang Shuangqiao Station | Recommendation | Use conditions |
|----------------------------------|--|---|--|--|----------------|---|
| Sump width B/D_L | 2.0-2.5 | 2-3 | 2.6-2.8 | 2.0-2.5 | 2.0-2.5 | Take smaller value for small pumps, bigger value for large pumps. |
| Pump spacing B/D_L | 2.0-2.5 | 2-3 | 2.6-2.8 | 2.0-2.5 | 2.0-2.5 | Take smaller value for small pumps, bigger value for large pumps. |
| Clearance from the floor P/D_L | 0.5-0.75 | 0.5-0.75 | 0.52-0.59 | 0.5-0.7 | 0.5-0.7 | Take smaller value for small pumps, bigger value for large pumps. |
| Back wall distance T/D_L | 0.8-1.0 | 0.75 | 1.2-1.4 | | 0.5-0.75 | |
| Sump length X_L/D_L | | 4.0 | | 8.0 | 5-8 | |

Bell mouth diameter, DL , is generally taken as the basic parameter of hydraulic design for open suction boxes (suction sumps) for the following reason. Water flow first flows through the cylindrical surface between the bell mouth and the baseplate of the suction box, and then enters the pump through the bell mouth. Thus, it is natural to take bell mouth diameter as the basic parameter in determining suction box dimensions. However, the problem is that the suction bell has not yet standardized and bell mouth diameter is variable. The ratio of bell mouth diameter to impeller diameter is different in different cases. Taking DL as the basic parameter may cause confusion to the hydraulic design rule, and thus is inappropriate. If the suction bell can be standardized, then it would be the same to take bell mouth diameter or impeller diameter as the basic parameter of hydraulic design for suction boxes. Otherwise, impeller diameter shall be taken as the basic parameter. In this sample specification, our company takes impeller diameter, D_0 , as the basic parameter in determining various parameters. According to Optimal Hydraulic Design for Suction Boxes of Pumping Stations, recommendations for open suction boxes are as follows:

(1) Clearance from the floor P

Clearance from the floor is recommended to be $P = (0.68-1.2) D_0$, and it is recommended to take a smaller value for large bell mouth diameter ($1.67 D_0$) and a larger value for small bell mouth diameter ($1.46 D_0$). For larger or smaller bell mouth diameter, P should be taken within this range.

(2) Back wall distance T

Basically, back wall distance is unaffected by bell mouth diameter. When water is pumped through the suction bell, some water flow will be inevitably sucked into the pump from the back of the suction bell, so it is necessary to keep a certain back wall distance. However, an overly large back wall distance would increase water flow's degree of freedom in the back wall space, as well as increase the possibility of vortex strip, so it needs to increase immersion depth. According to the results of optimizing calculation, T should be $(0.8-1.0) D_0$ to meet the requirements.

(3) Sump width B , pump spacing B

The suction sump should be wide enough to ensure some water flow can be sucked into the pump smoothly from both the sides and the back of the suction bell, but an overly-wide suction sump would not only be meaningless, but also increase civil engineering investment. The optimal sump width is determined by bell mouth diameter to some extent. According to the results of optimizing calculation, the recommended sump width is $(3.5-4.5) D_0$. It is recommended to take a smaller value for a large bell mouth diameter and a larger value for a small bell mouth diameter.

(4) Sump length XL

Under the condition of water flowing in a forward direction, it is necessary to make the suction sump long enough to ensure water flow becomes generally uniform before arriving at the suction bell. Sump length could be determined by the upper structure of the pump house, and it is generally $(7.0-8.0) D_0$. Under the condition of water flowing in a side direction, it needs to increase sump length or take necessary current controlling measures. Determination of sump length has nothing to do with bell mouth diameter.

(5) Plane shape

As revealed by calculation results, plane shape of the suction sump has little influence on the pump's working condition. However, according to experimental data, plane shape has some effect on the suction sump's hydraulic loss, with a heart-shaped sump having the smallest hydraulic loss and rectangular sump having the largest hydraulic loss.

10. ZQ,HQ series submersible axial flow mixed flow pump weight table

| Item | Model | Maximum 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 |

| Item | Model | Maximum 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 |

| Item | Model | Maximum weight (kg) | Maximum axial force(N) | Item | Model | Maximum weight (kg) | Maximum axial force(N) |
|------|-------------|---------------------|------------------------|------|-------------|---------------------|------------------------|
| 61 | 1000ZQ-50 | 6800 | 91300 | 95 | 2400ZQX-85 | 25000 | 320000 |
| 62 | 1000ZQ-50 | 6800 | 91300 | 96 | 2400ZQX-100 | 23500 | 185150 |
| 63 | 1000ZQ-70 | 6500 | 80700 | 97 | 2400ZQX-125 | 22000 | 160650 |
| 64 | 1000ZQ-85 | 6000 | 64500 | 98 | 350HQ-40 | 500 | 6800 |
| 65 | 1000ZQ-100 | 6000 | 46100 | 99 | 350HQ-50 | 600 | 9700 |
| 66 | 1000ZQ-125 | 5500 | 43200 | 100 | 400HQ-40 | 1000 | 20000 |
| 67 | 1000ZQ-160 | 5000 | 29900 | 101 | 400HQ-50 | 800 | 13900 |
| 68 | 1200ZQ-50 | 12000 | 117000 | 102 | 500HQ-40 | 1700 | 31600 |
| 69 | 1200ZQ-70 | 10100 | 101500 | 103 | 500HQ-40D | 1400 | 17800 |
| 70 | 1200ZQ-85 | 9800 | 72500 | 104 | 500HQ-50 | 1600 | 22000 |
| 71 | 1200ZQ-100 | 9500 | 58700 | 105 | 500HQ-50D | 1400 | 12400 |
| 72 | 1200ZQ-125 | 8800 | 51000 | 106 | 600HQ-40 | 2000 | 45700 |
| 73 | 1200ZQ-160 | 8000 | 37500 | 107 | 600HQ-40D | 1700 | 25700 |
| 74 | 1400ZQ-50 | 18000 | 155750 | 108 | 600HQ-50 | 1900 | 31800 |
| 75 | 1400ZQ-70 | 16300 | 135000 | 109 | 600HQ-50D | 1500 | 17900 |
| 76 | 1400ZQ-85 | 14000 | 96500 | 110 | 700HQ-40 | 3900 | 57100 |
| 77 | 1400ZQ-100 | 13200 | 78200 | 111 | 700HQ-40D | 2800 | 36800 |
| 78 | 1400ZQ-125 | 12700 | 67700 | 112 | 700HQ-50 | 3200 | 39700 |
| 79 | 1600ZQ-70 | 15000 | 187100 | 113 | 700HQ-50D | 2600 | 25600 |
| 80 | 1600ZQ-85 | 14000 | 130500 | 114 | 800HQ-40 | 4300 | 80800 |
| 81 | 1600ZQ-100 | 15800 | 106000 | 115 | 800HQ-40D | 3700 | 52100 |
| 82 | 1600ZQ-125 | 15000 | 91700 | 116 | 800HQ-50 | 4400 | 56200 |
| 83 | 1600ZQ-70C | 18500 | 231700 | 117 | 800HQ-50D | 3500 | 36200 |
| 84 | 1600ZQ-85C | 17900 | 165650 | 118 | 900HQ-40 | 4800 | 96200 |
| 85 | 1600ZQ-100C | 17000 | 134200 | 119 | 900HQ-40D | 4400 | 66300 |
| 86 | 1600ZQ-125C | 16500 | 116350 | 120 | 900HQ-50 | 4600 | 66900 |
| 87 | 1800ZQX-70 | 20000 | 260150 | 121 | 900HQ-50D | 4200 | 46100 |
| 88 | 1800ZQX-85 | 19000 | 185850 | 122 | 1000HQ-40 | 7300 | 101000 |
| 89 | 1800ZQX-100 | 18000 | 150500 | 123 | 1000HQ-50 | 6500 | 88000 |
| 90 | 1800ZQX-125 | 17000 | 130600 | 124 | 1000HQ-35C | 7800 | 113450 |
| 91 | 2000ZQX-70 | 23000 | 350000 | 125 | 1000HQ-50C | 7300 | 82150 |
| 92 | 2000ZQX-85 | 22000 | 250000 | 126 | 1200HQ-40 | 12000 | 142450 |
| 93 | 2000ZQX-100 | 21000 | 201900 | 127 | 1200HQ-50 | 12600 | 103250 |
| 94 | 2000ZQX-125 | 20000 | 175300 | 128 | 1400HQ-50 | 13000 | 156200 |

11. Sensor Specificaiton

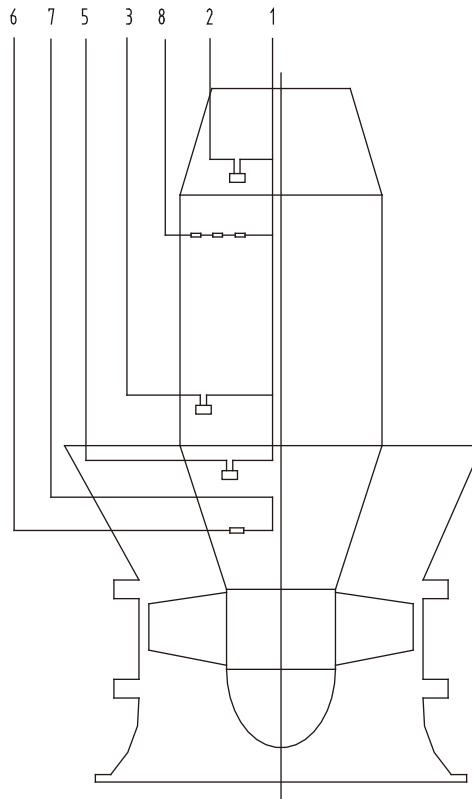
Sensor Placement and Function of Low voltage motor

| Control cable number | 1-8 | 1-2 | 1-3 | 1-5 | 6-7 |
|----------------------------|--|---|---|--|----------------------------------|
| Sensor | Thermal sensor JW6A (120°C) | Guard electrode against water intrusion in junction box | Moisture sensor in motor casing | Guard electrode against water intrusion in oil chamber | Bearing temperature sensor PT100 |
| Resistance in normal state | 0 | $\geq 120k \Omega$ | $\geq 120k \Omega$ | $\geq 30k \Omega$ | $\sim 100 \Omega$ at 0°C |
| Resistance in fault state | Act when winding temperature is above 120 °C | Water intrusion in junction box, resistance < 120k Ω | Water intrusion in motor, resistance < 120k Ω | Water intrusion in oil chamber with water content up to 10%, resistance of oil-water mixture < 30k Ω | $\sim 136 \Omega$ at 95 °C |

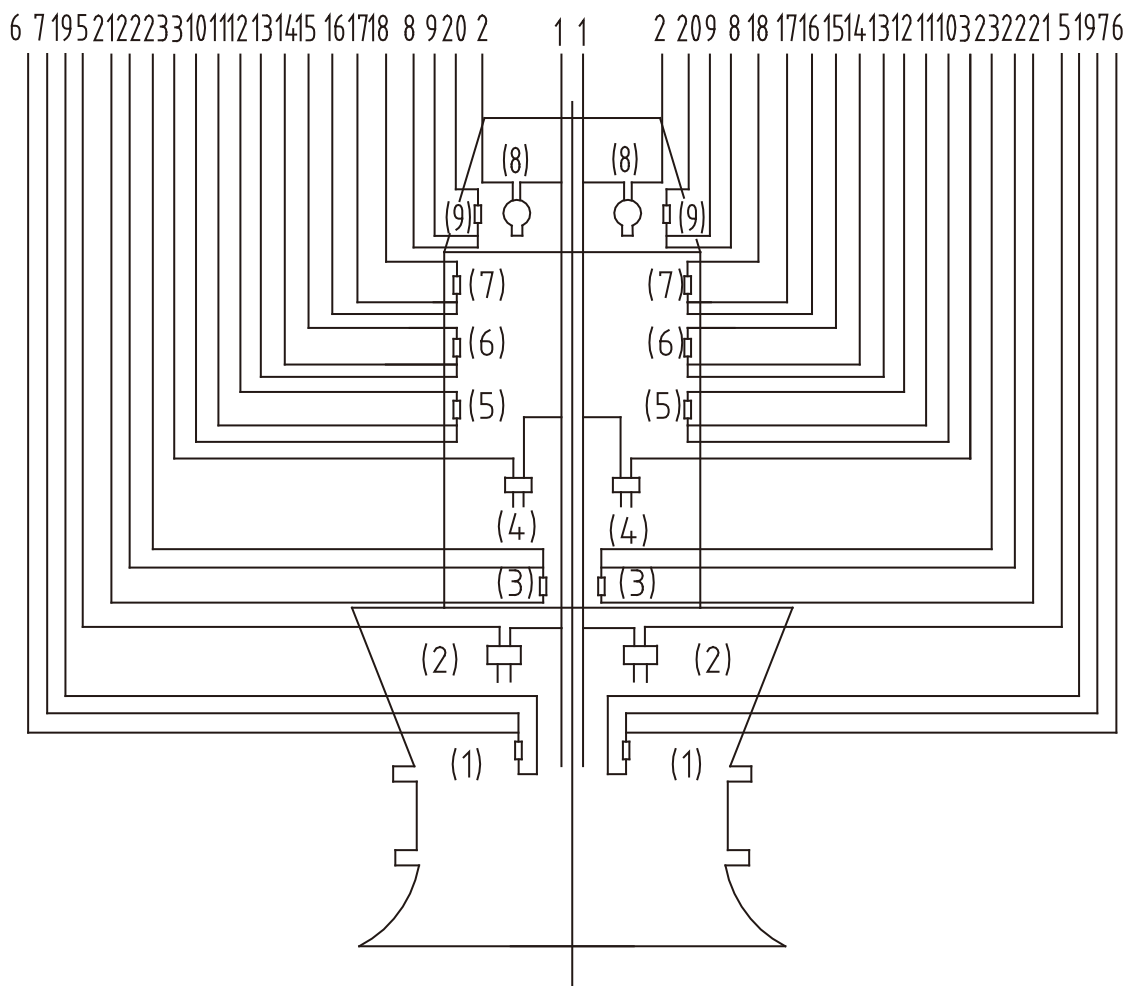
Notes:

(a) The sensors listed above are the basic configuration of low-pressure pumps. Customers can also make some changes to them, but shall specify the changes in the contract.

(b) 3350ZQ, 400HQ and below dimension pump only equip Wiring thermal sensor, Terminal box moisture sensor, and Motor Casing moisture sensor.



High voltage motor Protection Sensor specifications.



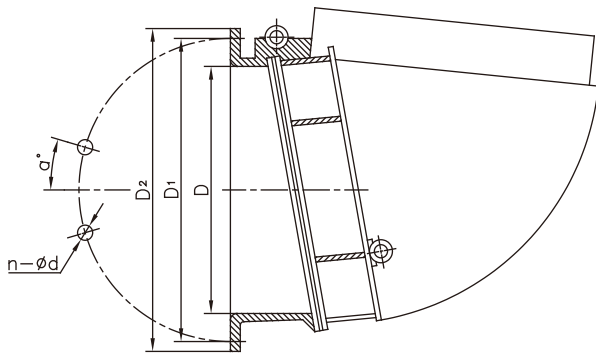
Monitoring and Protective Sensors (with backups)

| Sensor No. | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|----------------------------|------------------------------------|------------------------------------|-----------------------------------|---|--|--|--|---|-----------------------------------|
| Cable No. | 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 | PT 100 temperature sensor | Electrode | PT 100 temperature sensor | Electrode | PT 100 temperature sensor | PT 100 temperature sensor | PT 100 temperature sensor | Electrode | PT 100 temperature sensor |
| Function | Monitor thrust bearing temperature | Monitor oil chamber temperature | Monitor lower bearing temperature | Protect motor, prevent water intrusion in motor | Monitor phase-A temperature, and protect motor | Monitor phase-B temperature, and protect motor | Monitor phase-C temperature, and protect motor | Alarm against water intrusion in junction box | Monitor upper bearing temperature |
| Resistance in normal state | ~100Ω at 0°C | ≥ 30kΩ | ~100Ω at 0°C | ≥ 120kΩ | ~100Ω at 0°C | ~100Ω at 0°C | ~100Ω at 0°C | ≥ 120kΩ | ~100Ω at 0°C |
| Resistance in fault state | ~136Ω at 95°C | <30kΩ when relative humidity ≥ 95% | ~136Ω at 95°C | <120kΩ | ~151Ω at 135°C | ~151Ω at 135°C | ~151Ω at 135°C | <120kΩ | ~136Ω at 95°C |

12. Optional Accessory Equipments

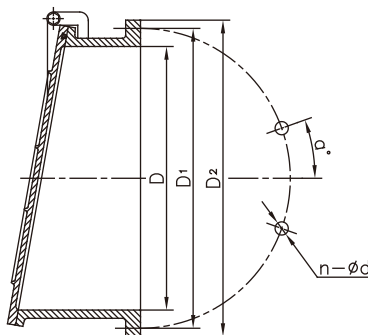
1. Float Valve

- Clap door outside and connection dimensions
 B. Additional weight type clap door outside drawing and connection dimensions table
 A. Float valve dimension



| D | D ₁ | D ₂ | n-Φd | 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-Φ 27 | 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-Φ 30 | 15 | 448 |
| 1300 | 1430 | 1500 | 12-Φ 30 | 15 | 665 |
| 1400 | 1520 | 1575 | 12-Φ 30 | 15 | 891 |
| 1600 | 1760 | 1830 | 12-Φ 36 | 15 | Contact with manufacturer |
| 1800 | 1970 | 2045 | 44-Φ30 | 4.1 | Contact with manufacturer |

B. Weight valves dimension



| D | D ₁ | D ₂ | n-Φd | 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-Φ 27 | 15 | 154 |
| 700 | 810 | 860 | 12-Φ 27 | 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-Φ 30 | 15 | 388 |
| 1300 | 1430 | 1500 | 12-Φ 30 | 15 | 649 |
| 1400 | 1520 | 1575 | 12-Φ 30 | 15 | 856 |
| 1600 | 1760 | 1830 | 12-Φ 36 | 15 | Contact with manufacturer |
| 1800 | 1970 | 2045 | 44-Φ30 | 4.1 | Contact with manufacturer |

2 Intelligent Comprehensive Protector for Submersible Pumps

1. The intelligent controller for submersible pumps is mainly used to monitor overheating and water intrusion, which are caused by faults during the operation of submersible pumps, so as to ensure the normal working of the equipment. The controller is provided with 485 output interface which enables multiple point communications and data processing through computers in real time. The controller is equipped with SCM. Besides its powerful functions, designers take a series of anti-jamming measures to cope with the special working circumstances of submersible pumps, so as to ensure its reliable operation. The input end of the sensor has high voltage impact resistance, and thus it is applicable in the working environment of pumps. This controller is very suitable for being used together with pumps.

1.1 Intelligent controller for submersible pumps

The controller uses PT 100 platinum resistance as the bearing temperature sensor, JW6A as the winding temperature alarm sensor, and electrode switches to guard against water intrusion in the motor, oil chamber, and junction box. The controller has two working modes: monitoring mode and quitting mode.

Monitoring mode: under this mode, the customer can set bearing temperature limit on the controller. When the bearing temperature exceeds the limit, the controller will give an alarm. When the winding temperature (JW6A) exceeds the limit or water intrudes in the motor, oil chamber, or junction box, the indicator in the alarm category display box will turn on. Meanwhile, the corresponding alarm relays, KS and KJ, will shut, and the signal can be used to connect indicators and control devices in the external circuit. After the fault is removed, the alarm sound can be stopped by pressing the reset button on the front panel. There is a reset output terminal on the back panel as well, which can be used to connect with the external reset button.

Quitting mode: under this mode, the controller can only indicate bearing overheating, winding overheating (JW6A), and water intrusion in the motor, oil chamber, and junction box. The controller can show the real-time temperature of the bearing, and the alarm category display box can tell fault category. However, the corresponding relays, KJ and KS, will not output signals (no action), and there will be no alarming sound.

1.2 Intelligent controller for submersible pumps II

The controller uses PT 100 platinum resistance thermometers as the bearing temperature sensor and the winding temperature alarm sensor, and has an alarm function against water intrusion in the motor, oil chamber, and junction box. The customer can set temperature limits respectively for the bearing and the winding. When the bearing temperature or winding temperature exceeds the limit or water intrudes into the motor, oil chamber, or junction box, the indicator in the alarm category display box will turn on. Meanwhile, the corresponding alarm relays, KS and KJ, will shut, and the signal can be used to connect indicators and control devices in the external circuit. After the fault is removed, the alarm sound can be stopped by pressing the reset button on the front panel. There is a reset output terminal on the back panel as well, which can be used to connect to the external reset button.

Quitting mode: under this mode, the controller can only indicate bearing overheating, winding overheating, and water intrusion in the motor, oil chamber, and junction box. The controller can show the real-time temperature of the bearing and the winding, and the alarm category display box can tell fault category. However, the corresponding relays, KJ and KS, will not output signals (no action), and there will be no alarm sound.

1.3 Intelligent controller for submersible pumps III

The controller uses JW6A as the winding temperature alarm sensor and electrode switches to guard against water intrusion in motor and junction box. The controller has two working modes: monitoring mode and quitting mode.

Monitoring mode: under this mode, when the winding temperature exceeds the limit or water intrudes into the motor or junction box, the controller will give an alarm. When the winding temperature exceeds the limit or water intrudes in the motor or junction box, the indicator in the alarm category display box will turn on. Meanwhile, the corresponding alarm relays, KS and KJ, will shut, and the signal can be used to connect indicators and control devices in the external circuit. After the fault is removed, the alarming sound can be stopped by pressing the reset button on the front panel. There is a reset output terminal on the back panel as well, which can be used to connect to the external reset button.

Quitting mode: under this mode, the controller can only indicate winding overheating (JW6A), and water intrusion into the motor and junction box. The alarm category display box can tell fault category. However, the corresponding relays, KJ and KS, will not output signals (no action), and there will be no alarm sound.

13. Optional accessory components list of mixture flow and axial flow pump

| Item | Name | Installation form | | | | | | | | Remarks |
|------|-----------------------------------|--------------------|------------------------|-----------------|----------------------|------------|--------|---------|--------------------|---|
| | | Wellhole hang type | Wellhole on the ground | Elbow hang type | Cement wellhole type | The course | Open I | Open II | Valve installation | |
| 1 | Submersible axial mixed flow pump | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | Pump model, flowrate, head, voltage, installation form noted when ordering. |
| 2 | Plate ring | ★ | ★ | ★ | ★ | | ★ | ★ | ★ | Q235-A, HT200 or 1Cr18Ni9Ti |
| 3 | SS wellhole | ★ | ★ | ★ | | ★ | ★ | ★ | | Q235-A or 1Cr18Ni9Ti |
| 4 | Suction hoods | | | | | ★ | | | | |
| 5 | Diffuser pipe | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 6 | Through-wall pipe | ☆ | ☆ | ☆ | ☆ | ☆ | | ☆ | ☆ | |
| 7 | Drains | | | | | ☆ | | | | |
| 8 | Cement wellhole | | | | ★ | | | | | |
| 9 | Elbows, | | | ★ | | | | | | |
| 10 | Wellhole cover | ★ | ★ | | ★ | | | ★ | | |
| 11 | Lifting device | ★ | ★ | ★ | ★ | | ★ | ★ | | |
| 12 | Cable grips, | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | |
| 13 | Sled assembling, | | | | | ★ | | | | |
| 14 | Pump on car assembly | | | | | ★ | | | | |
| 15 | Gaskets, | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | |
| 16 | Standard fasteners, | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | Common steel or stainless steel |
| 17 | Anchor bolts, | ★ | ★ | ★ | ☆ | | ★ | ★ | ☆ | Common steel or stainless steel |
| 18 | Float valve | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | Steel gravity type clap door or buoyancy tank clap door |
| 19 | Rubber joints, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 20 | Special start-up cabinets , | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 21 | Terminal box, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 22 | Integrated protection, | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | |
| 23 | Power cable, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | The general length of cable is 10m or mark out the length. |
| 24 | Control cable, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 25 | Water level controller, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 26 | Mechanical seal, | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | Mark out the quantity of spare parts when ordering. |
| 27 | O type seal ring | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | |
| 28 | Bearing | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | |
| 29 | Special tools | ☆ | ☆ | ☆ | | | | ☆ | ☆ | |

Note: ★ means it is requisite.

☆ means it is optional according to customer.

14. Instructions for Ordering

1. When ordering, you shall specify the name and model of the submersible pump, number of units, installation method, range of complete sets, starting mode, head, flow rate, power, voltage, water quality, and materials of main parts. Note that the head means total head including all the head loss of the pump unit. If you are not sure about the total head, please provide the net head and installation method and ask our company to calculate the accurate total head and determine the model of the required submersible pump.
2. Please refer to the performance curves and tables in this specification to check the maximum head and minimum head. Please consult our company if the value is beyond this range.
3. When choosing installation method, it is recommended to give preference to the dimensions specified in this specification for steel shaft installation. Please consult our company if you want to change the dimensions in the table or choose other dimensions for other installation methods.
4. Please note the range of complete sets specified in this specification. It is recommended to give preference to must-buy accessories and choose the optional accessories when required.
5. Starting modes include direct start, reduced-voltage autotransformer start, and soft start. Our company provides various starting cabinets with a dedicated pump protector, automatic level controller, and logic sequence controller for pumping stations with multiple pumps.
6. If not otherwise specified, the frequency of the power supply for the pump is 50Hz and the voltage is generally 380V. It is recommended to choose 6kV and 10kV for pumps with power exceeding 315kW. Please indicate in the contract that the requirements for ordering 50Hz and 660V products are acceptable. You can discuss special products with us which have another working frequency (say 60Hz) or voltage.

www.kaiquangroup.com



SHANGHAI KAIQUAN PUMP (GROUP) CO., LTD.

Address : No.4255 Caoan Road.Shanghai Post Code: 201804 Service Center: +86-21-6959 3241
Overseas Department: +86-21-5651 4775 E-mail: Trading@kaiquan.com.cn

