
Functions & Features

The cutting part of the ZGWQ sewage cutting pump has a unique spiral structure and a sharp blade design. In ensuring the performance of water, and more than similar products under the premise, but also has a certain degree of cutting ability, ensure superior function of cutting straw, cotton, cloth, baby diapers and other wastes discharged after shredding.

- ZGWQ is a cutting sewage pump;
- The purpose is to transport sewage dirt, except for special purposes.
- Total head, low energy consumption;
- The design of the disassembled knife plate.
- The pumps are equipped with 11KW solid disc thermal protector;
- The cutting part material is the alloy material which is not corroded by the Rockwell hardness above 58HR.
- Stud cable to avoid any water inflow the machine to destroy it when the cable cover was broken.
- Special double mechanical seal structure, make the pump seal more reliable.

(patent number: ZL 20162 0689300.X ZL 20162 0 6892806)

Product material

- The shell is common HT200 cast iron.
- The pump body part is common HT250 cast iron.
- The cutting part is the alloy material of the stainless steel with the Rockwell hardness above 58HR.
- Domestic brand bearings or imported brand bearings;
- The domestic brand graphite - silicon carbide mechanical seal or the joint venture brand mechanical seal;

High efficiency and no blockage characteristics may be too perfect. A lot of practical applications and laboratory tests show that ZGWQ sewage pump is superior to any domestic sewage pump in terms of efficiency and anti clogging performance.

50Hz	Dimension			Weight		Packing dimension (mm)
	φ	H1	H	N.W	G.W	
Model	mm	mm	mm	Kg	Kg	
QXN10/2-2.2	φ196	555	670	53	57	750*230*275
QXN25/1-2.2	φ196	515	630	47	51	720*230*275
QXN10/3-3	φ196	6300	715	62	66	795*230*275
QXN25/2-3	φ196	570	685	57	61	765*230*275
QXN12.5/3-4	φ196	635	750	67	72	830*230*275
QXN25/2-4	φ196	600	715	64	68	800*230*275
QXN15/3-5.5	φ196	680	795	75	80	875*230*275
QXN25/3-5.5	φ196	705	820	78	84	900*230*275
QXN25/4-7.5	φ196	825	940	92	98	1020*230*275
QXN25/5-9.2	φ196	910	1025	106	113	1105*230*275
QXN20/3-11	φ274	895	1010	178	189	1095*305*385
QXN40/2-11	φ274	901	1016	176	187	1105*305*385
QXN20/4-15	φ274	992	1107	210	222	1205*305*385
QXN40/3-15	φ274	1022	1137	206	218	1235*305*385
QXN60/2-15	φ274	946	1061	189	201	1155*305*385
QXN20/5-18.5	φ274	1066	1181	235	250	1275*305*385
QXN40/3-18.5	φ274	1042	1157	225	237	1275*305*385
QXN60/2-18.5	φ274	966	1081	204	216	1175*305*385
QXN20/6-22	φ274	1193	1308	282	297	1415*305*385
QXN40/4-22	φ274	1193	1308	241	256	1415*305*385
QXN40/4-25	φ274	1193	1308	283	298	1415*305*385
QXN60/3-25	φ274	1117	1232	263	277	1335*305*385

60Hz	Dimension			Weight		Packing dimension (mm)
	φ	H1	H	N.W	G.W	
Model	mm	mm	mm	Kg	Kg	
QXN10/2-2.2	φ196	555	670	53	57	750*230*275
QXN25/1-2.2	φ196	515	630	47	51	720*230*275
QXN10/2-3	φ196	6300	715	62	66	795*230*275
QXN12.5/2-4	φ196	570	685	57	61	765*230*275
QXN25/2-4	φ196	635	750	67	72	830*230*275
QXN15/2-5.5	φ196	600	715	64	68	800*230*275
QXN25/2-5.5	φ196	680	795	75	80	875*230*275
QXN25/3-7.5	φ196	705	820	78	84	900*230*275
QXN25/3-9.2	φ196	825	940	92	98	1020*230*275
QXN20/2-11	φ196	910	1025	106	113	1105*230*275
QXN40/2-11	φ274	895	1010	178	189	1095*305*385
QXN20/3-15	φ274	901	1016	176	187	1105*305*385
QXN40/2-15	φ274	992	1107	210	222	1205*305*385
QXN20/3-18.5	φ274	1022	1137	206	218	1235*305*385
QXN40/2-18.5	φ274	1042	1157	225	237	1275*305*385
QXN20/4-22	φ274	1193	1308	282	297	1415*305*385
QXN40/4-22	φ274	1193	1308	241	256	1415*305*385
QXN40/3-22	φ274	1066	1181	235	250	1275*305*385

Model Description

50 ZGWQ 10 - 10 - 0.75

Power (kW)
 Head (m)
 Flow (m³/h)
 High Efficiency Cutting
 Sewage Pump (D:Single-phase)
 Outlet Diameter (mm)

Technical Parameter

Model	Caliber (inch)	flow (m³/h)	Head (m)	power (kW)	Speed (r/min)	current source
40ZGWQD6-12-0.75	1.5	6	12	0.75	3000	220V
50ZGWQD10-10-0.75	2	10	10	0.75	3000	220V
40ZGWQD7-15-1.1	1.5	7	15	1.1	3000	220V
50ZGWQD12-10-1.1	2	12	10	1.1	3000	220V
50ZGWQD15-15-1.5	2	15	15	1.5	3000	220V
65ZGWQD25-10-1.5	2.5	25	10	1.5	3000	220V
40ZGWQ6-12-0.75	1.5	6	12	0.75	3000	380V
50ZGWQ10-10-0.75	2	10	10	0.75	3000	380V
40ZGWQ7-15-1.1	1.5	7	15	1.1	3000	380V
50ZGWQ12-10-1.1	2	12	10	1.1	3000	380V
50ZGWQ15-15-1.5	2	15	15	1.5	3000	380V
65ZGWQ25-10-1.5	2.5	25	10	1.5	3000	380V
50ZGWQ9-22-2.2	2	9	22	2.2	3000	380V
65ZGWQ20-18-2.2	2.5	20	18	2.2	3000	380V
80ZGWQ45-9-2.2	3	45	9	2.2	3000	380V
50ZGWQ15-22-3	2	15	22	3	3000	380V
65ZGWQ35-15-3	2.5	35	15	3	3000	380V
80ZGWQ43-13-3	3	43	13	3	3000	380V
100ZGWQ60-9-3	4	60	9	3	3000	380V
50ZGWQ15-25-4	2	15	25	4	3000	380V
65ZGWQ26-22-4	2.5	26	22	4	3000	380V
80ZGWQ45-17-4	3	45	17	4	3000	380V
100ZGWQ65-12-4	4	65	12	4	3000	380V
50ZGWQ15-40-5.5	2	15	40	5.5	3000	380V
65ZGWQ25-30-5.5	2.5	25	30	5.5	3000	380V
80ZGWQ45-20-5.5	3	45	20	5.5	3000	380V
100ZGWQ65-16-5.5	4	65	16	5.5	3000	380V
50ZGWQ15-45-7.5	2	15	45	7.5	3000	380V
65ZGWQ25-35-7.5	2.5	25	35	7.5	3000	380V
80ZGWQ45-25-7.5	3	45	25	7.5	3000	380V
100ZGWQ60-22-7.5	4	60	22	7.5	3000	380V
100ZGWQ100-15-7.5	4	100	15	7.5	3000	380V

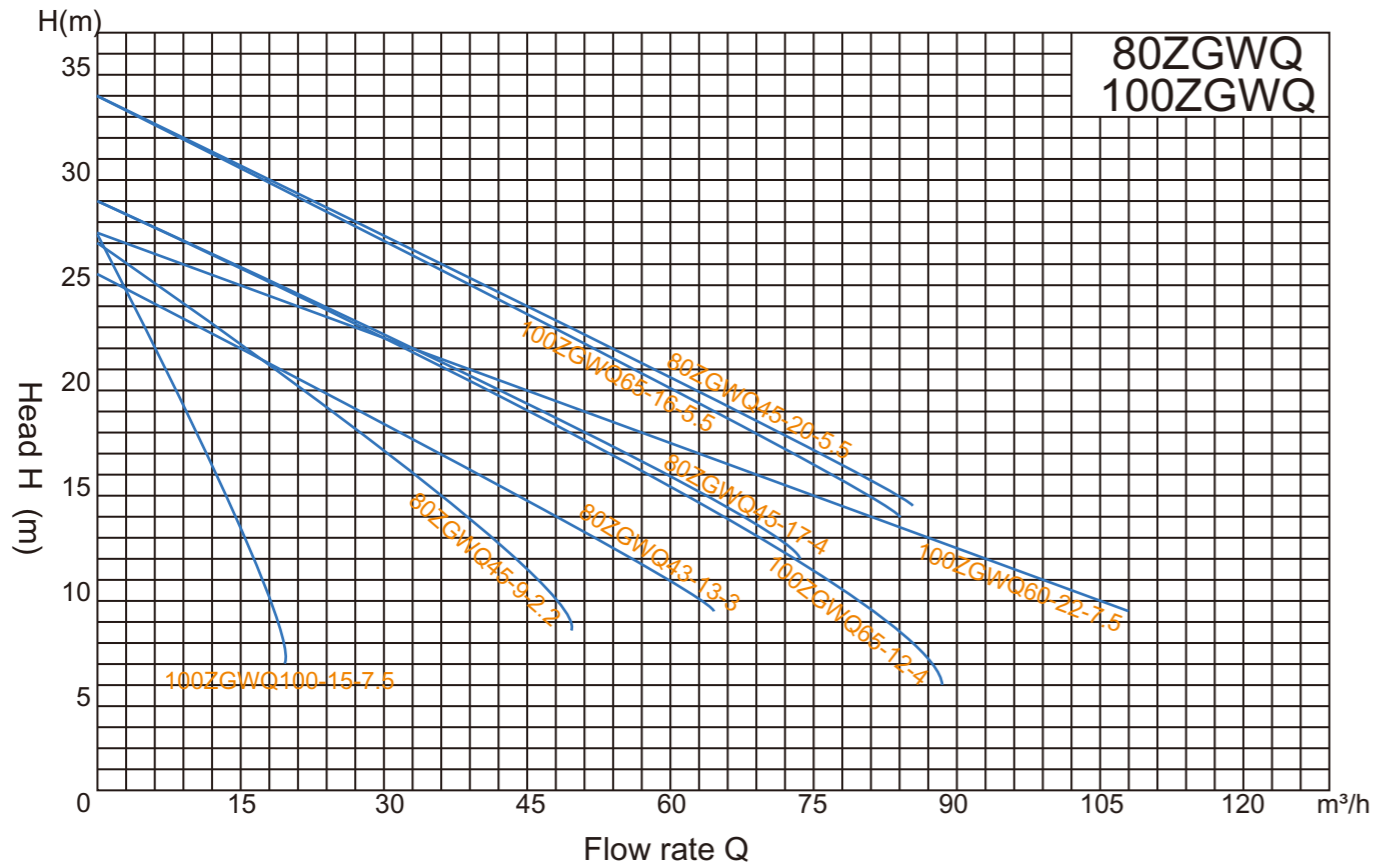
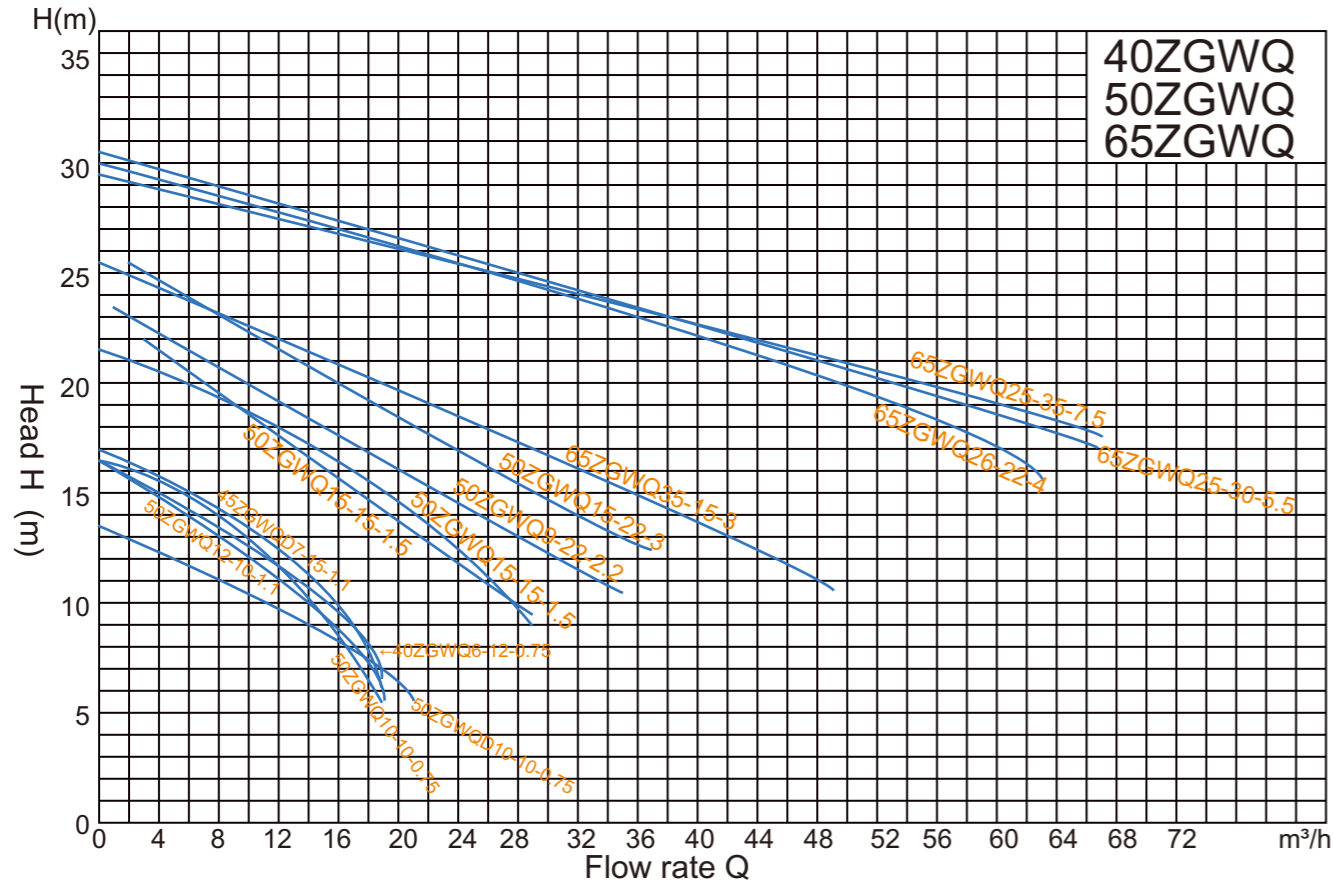


Height : 320mm=12.8 inch

Technical Parameter

Model	Caliber (inch)	flow (m³/h)	Head (m)	power (kW)	Speed (r/min)	current source
40ZGWQD6-12-0.75	1.5	6	12	0.75	3000	220V
50ZGWQD10-10-0.75	2	10	10	0.75	3000	220V
40ZGWQD7-15-1.1	1.5	7	15	1.1	3000	220V
50ZGWQD12-10-1.1	2	12	10	1.1	3000	220V
50ZGWQD15-15-1.5	2	15	15	1.5	3000	220V
65ZGWQD25-10-1.5	2.5	25	10	1.5	3000	220V
40ZGWQ6-12-0.75	1.5	6	12	0.75	3000	380V
50ZGWQ10-10-0.75	2	10	10	0.75	3000	380V
40ZGWQ7-15-1.1	1.5	7	15	1.1	3000	380V
50ZGWQ12-10-1.1	2	12	10	1.1	3000	380V
50ZGWQ15-15-1.5	2	15	15	1.5	3000	380V
65ZGWQ25-10-1.5	2.5	25	10	1.5	3000	380V
40ZGWQ9-22-2.2	2	9	22	2.2	3000	380V
65ZGWQ20-18-2.2	2.5	20	18	2.2	3000	380V
80ZGWQ45-9-2.2	3	45	9	2.2	3000	380V
50ZGWQ15-22-3	2	15	22	3	3000	380V
65ZGWQ35-15-3	2.5	35	15	3	3000	380V
80ZGWQ43-13-3	3	43	13	3	3000	380V
100ZGWQ60-9-3	4	60	9	3	3000	380V
50ZGWQ15-25-4	2	15	25	4	3000	380V
65ZGWQ26-22-4	2.5	26	22	4	3000	380V
80ZGWQ45-17-4	3	45	17	4	3000	380V
100ZGWQ65-12-4	4	65	12	4	3000	380V
50ZGWQ15-40-5.5	2	15	40	5.5	3000	380V
65ZGWQ25-30-5.5	2.5	25	30	5.5	3000	380V
80ZGWQ45-20-5.5	3	45	20	5.5	3000	380V
100ZGWQ65-16-5.5	4	65	16	5.5	3000	380V
50ZGWQ15-45-7.5	2	15	45	7.5	3000	380V
65ZGWQ25-35-7.5	2.5	25	35	7.5	3000	380V
80ZGWQ45-25-7.5	3	45	25	7.5	3000	380V
100ZGWQ60-22-7.5	4	60	22	7.5	3000	380V
100ZGWQ100-15-7.5	4	100	15	7.5	3000	380V

Pump Curve



Comparison of the advantages of spiral impeller cutting pump and traditional mode cutting pump



patent number : ZL 2016 2 0689108.0

Contrast item	Contrast 1: wqas cutting pump	Contrast 2: discharge pump with cutter	Contrast 3: zgwq sewage cutting pump
Product picture			
Real cut structure			
Impeller	Low cutting effect through large Particle head	Spiral impeller	Spiral alloy impeller
Cutting part of material hardness	Rockwell hardness 32HR	Rockwell hardness 48HR	Rockwell hardness 58HR-65HR
Material of pump body	HT250	HT250	HT250
Material of screws and rings	steel	steel	SUS304 stainless steel
Self contained motor protection device	not have	not have	Disc type thermal protector
Mechanical seal	Graphite-graphite	Graphite-graphite	Graphite-silicon carbide can be selected for other brands and materials
Bearing	made in China	made in China	C&U can choose imported brands
Cable length	8m	8m	8m
Measured rated flow / rated lift	24.72m³/h 12.8m 3kW	35m³/h 12.8m 2.2kW	35m³/h 13.8m 2.2kW
Sample label flow / lift	50WQAS25-15-3	65GNWQ35-13-2.2	65ZGWQ35-15-2.2
WQ national standard flow / lift	65WQ25-15-3	65WQ30-7-2.2	65WQ35-7-2.2
Is the total lift according to the curve?			total head

Attentions

General precautions:

- Check whether the cable is broken before use.
- Check whether the electric pump is damaged in the course of transportation, the leakage, damage and death of the pump.
- The power supply is used in the control cabinet of the protection device.
- The personnel and animal husbandry must be kept more than 15 meters at the time of operation;
- Absolutely prohibit the same pool in the same water pool.
- If you have any questions in use, please contact our sales office in time or call our company's free service phone.

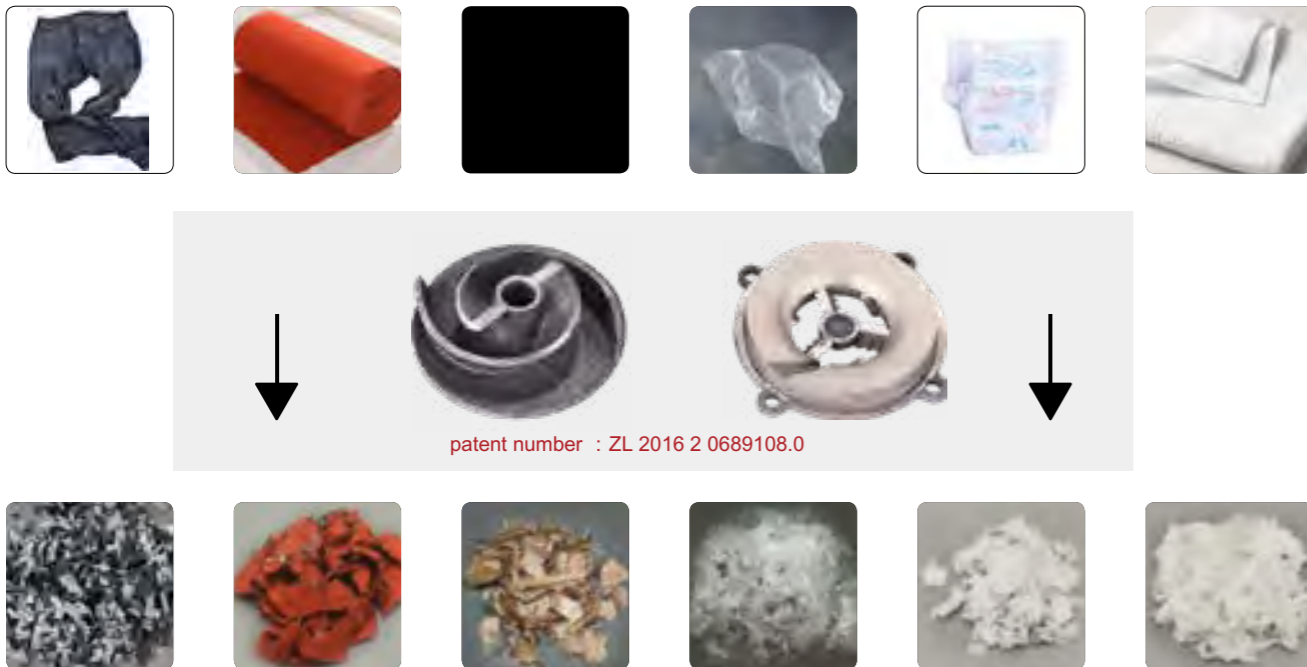
Special attention:

- 25 cm from the bottom of the pool.
- avoid hard material such as sucking stone, screw iron nail and so on; it can prolong the service life of the cutting device.
- After the replacement of the cutting device, special attention should be paid to the clearance between the impeller and the cutting disc, which should be controlled between 0.1-0.25mm.
- The use of the environment must be a liquid based liquid;
- When the liquid is too little slag, it must be started after adding water.

Application

It is suitable for underground garage, sewage upgrading, livestock breeding, rural biogas pool, sewage treatment, kitchen sewage, commercial municipal drainage and other places.

Cutting effect



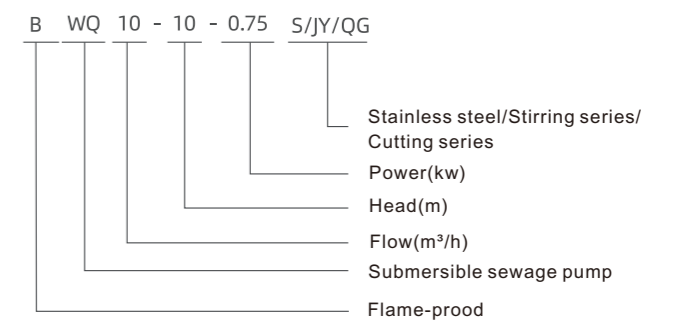
Product Description

BWQ series flame-proof submersible sewage pump is a latest type of flame-proof products developed by our company, flame-proof performance is in accordance with GB3836.1-2010 Explosive Environment part I : General Requirements for Equipment and GB3836.2-2010 Explosive Environment part II : Flame-proof Shell Protection Equipment made of flame proof standards, Explosion-proof mark: Exd IIB4. The whole series products have acquired explosion proof certification, type completed and convenient selection

Application

The product is used for sewage discharge in the IIB factory where the temperature group is T1-T4 of combustible gas and explosible mixture of steam and air. It is suitable for coal chemical industry, petrochemical industry, municipal engineering, urban engineering, hospitals, hotels, residential areas and other places.

Model Description



Conditions Of Use

- Meeting the requirements of explosion-proof in accordance with the product flame-proof mark.
- Supply power: 380v, 660v, 3 phase, 50Hz
- Medium temperature: 0-40C (above the temperature, there will be other hotwater pump model)
- Medium PH value: 5-9
- Medium weight: $\leq 1100 \text{Kg/m}^3$
- Maximum depth: 20m

