



WQ Series

Sewage submersible pump

Introduction

Model screening: after performance optimization, double-channel impeller is adopted with two or three reasonably arranged mechanical seals, which ensures the lubrication and cooling of mechanical seals, the smooth operation without blocking and good flow capacity.

Improvement of mechanical seals: series mechanical seal is adopted, with more reliable shaft seal and longer service life.

Structural optimization: the structural design ensures the airtightness of mechanical seals, smooth operation, vibration resistance, drop resistance, and higher reliability. The optimized sewage pump is more portable, practical, corrosion-resistant and wear-resistant.

The submersible motor is featured with IPX8 protection level, good cooling effect and temperature rise lower than ordinary motor, which ensure the better durability. Based on the F-level insulation, the motor has longer service life.

The motor is equipped with a variety of protection devices, which is convenient for users' choice at the time of optimization.

Main Application

It is applicable to discharge the waste water, rainwater and sewage containing solid particles and long fibers in buildings, hospitals, residential areas, municipal engineering, road traffic and their construction, engineering sewage discharge, small-scale sewage treatment and other occasions.

Pump Body & Impeller

Both pump body and impeller are carefully selected, which ensures the good passage capacity of flow channel, high efficiency, flat power curve and not ease to overload. The impeller is featured with accurate balance, small vibration and stable rotation.

Motor

The specially designed submersible motor, featured with IPX8 protection level and F-level insulation, can tolerate the high temperature rise. Under the normal temperature rise condition, the motor insulation life is extended, while the submersible cooling effect is good and the actual temperature rise is low, thus ensuring the longer insulation life of motor.

Motor Cooling

The heat of motor dissipates through the casing. As long as half of the motor stator casing is soaked by the medium, the motor can operate reliably and safely. The more soaked, the more favorable the motor cooling is.

Shaft Seal

The shaft seal of motor is realized with two or three series mechanical seals, which form multiple reliable sealing defense lines. One of the seals is in the medium of pump. The sealing surface is compressed more tightly with the increase of medium pressure, thus effectively preventing water from entering the oil chamber; the other two seals are in the oil chamber, which can prevent oil from entering the motor. If the first seal is failed, the other two can still prevent oil and water from entering the motor. Besides, the bellows-type mechanical seals cooperate with the innovative structural cavity to further improve the reliability of shaft seal greatly. Under normal use, the non-failure operation time is more than 9,000h.

Oil Chamber

The oil chamber is filled with proper machine oil and installed with two mechanical seals. It is the first barrier to prevent the medium from entering the motor through the pump shaft. If the first seal is failed, the buffer medium in oil chamber can not directly enter the motor. Meanwhile, the friction surfaces of the two independent mechanical seals are lubricated and cooled to make the mechanical seals work more reliable, which can also take away the heat of lower bearing and some heat of the motor.

Bearing

The lower bearing forms the reliable support of motor pump shaft. According to radial and axial forces and pulsating load generated during the operation of sewage pump, the lower bearing can be composed of two or three different types of bearing, thus ensuring the stable operation and long service life of unit.

Cable and Cable Seal

- 1) The cable is sewage-resistant flexible cable with rubber sheath. The cable core section is designed for long-term and reliable operation at 40P ambient temperature and motor full-load power. When the sewage pump works, if the motor runs at non-full load power or under the ambient temperature lower than 40P, the longer service life will be ensured.
- 2) There is seal compressed between the cable rubber sheath and the motor gland, so as to prevent the medium from penetrating into the inner cavity of motor from the interface between cable and motor gland.
- 3) There is rubber vulcanization between the cable sheath and the cable core. Once the rubber sheath is scratched, it can still effectively prevent the medium from entering the motor through the sheath.

Motor Shell

The frame, bearing seat and cover compose the motor shell. The connection place of all components is provided with the reliable static seal. Besides, each motor has been checked through the strict hydrostatic test, so as to ensure the good water tightness.

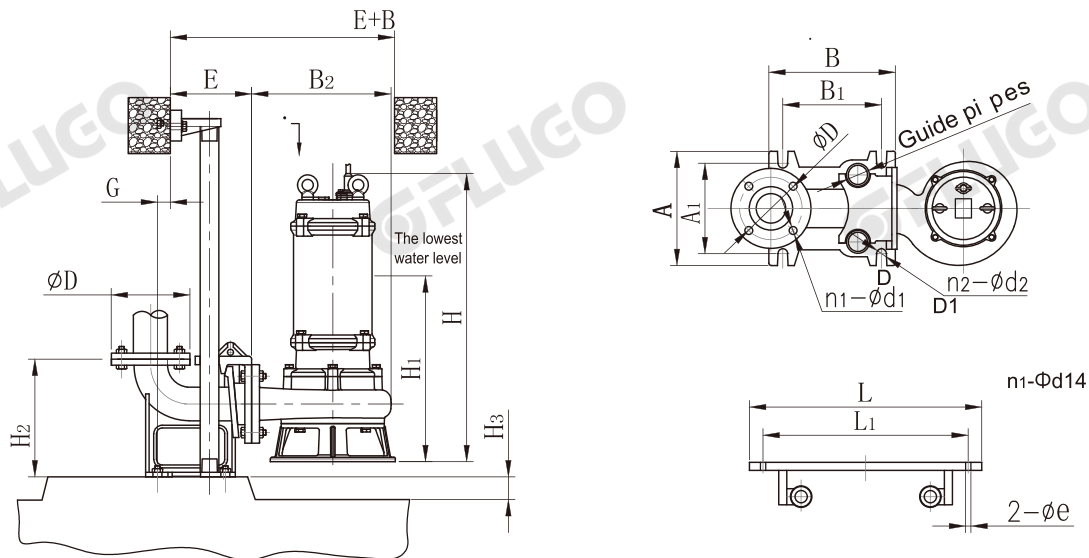
Safety Protection in Motor Pump

(operated by the special electrically controlled phase)

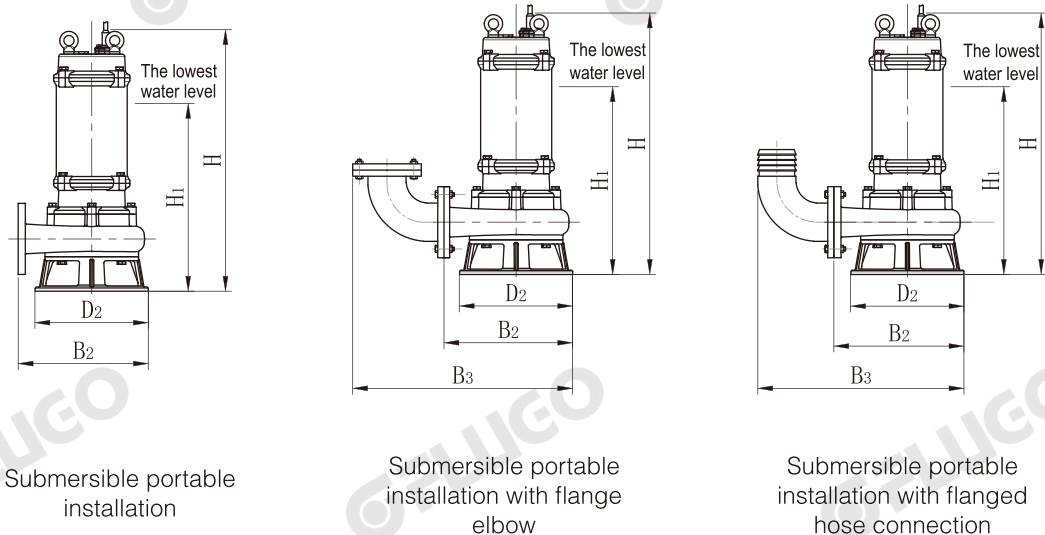
- 1) Oil-water probe: installed in the oil chamber to check the leakage of the first mechanical seal (in the medium), which will send the alarm signal when the medium leaks into the oil chamber and reaches a certain proportion.
 - 2) Inlet probe: installed in the motor chamber to check the leakage of the second mechanical seal, which will send the alarm signal and stop the pump when the oil (oil-water mixture) enters the motor.
 - 3) Thermo-sensitive element: installed in the motor stator winding, which will send the alarm signal and stop the pump when the motor is overloaded for long time and the temperature of motor winding (or the heating of the motor winding caused by other reasons) reaches a certain value.
- rubber sheath. The cable core section is designed

Installation

Fixed with connection foot: this installation includes foot, guide pipes, chain, etc. this connection allows for quick removal and installation of pumps from the system during maintenance.



Removable installation with base frame



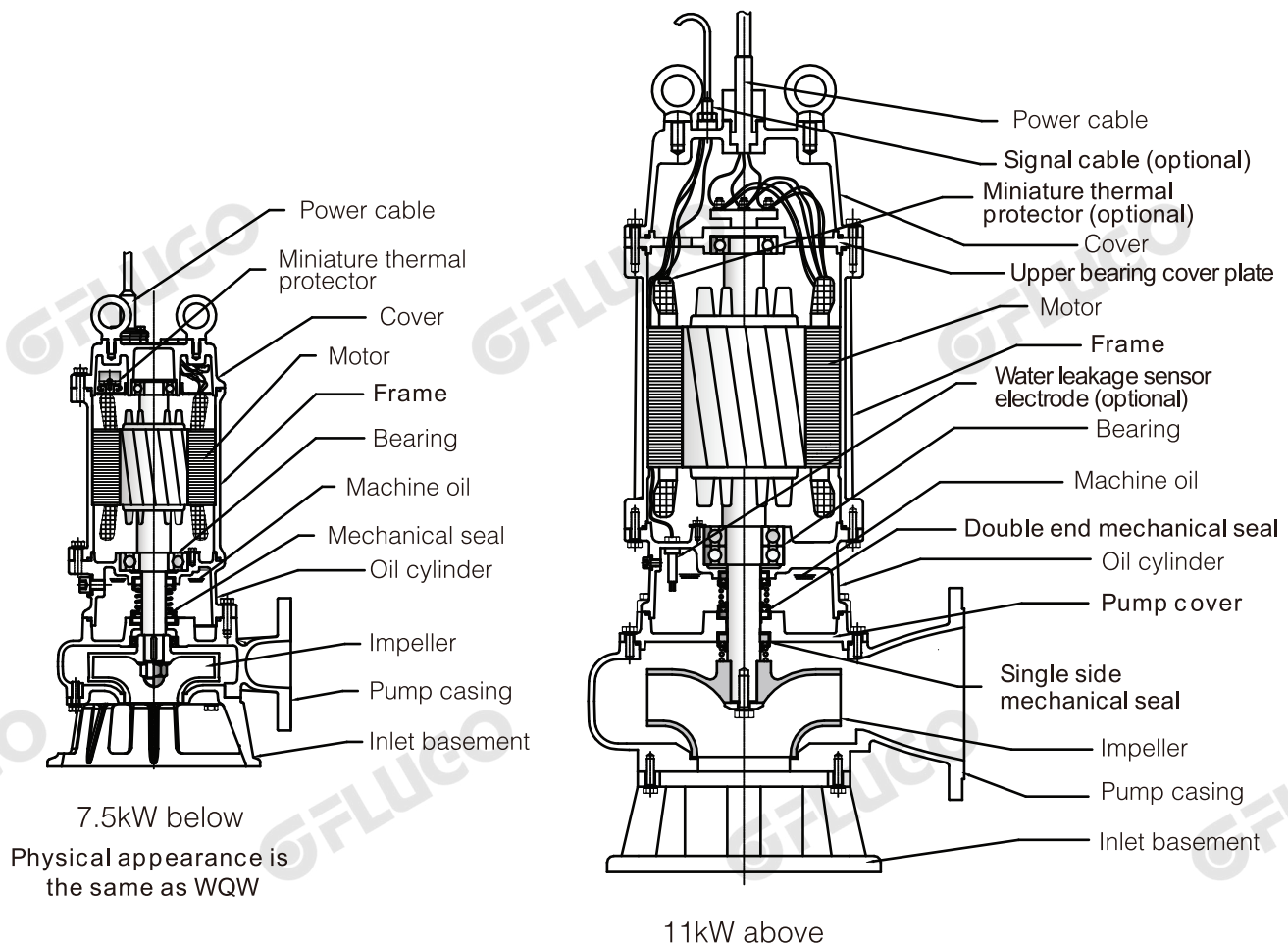
WQ / WQF / WQW / Submersible sewage pump with Auto-coupling set

No.	Model	Dimension PN0.6MPa mm			Lightweight auto-coupling set dimension mm					G	H ₂	H ₃	L	L ₁	Rail pipe (inch)	Φ _e	E
		D	D ₁	n ₁ -Φd ₁₄	A	A ₁	B	B ₁	n ₂ -Φd ₂								
1	DN50	140	110	4-Φ14	132	115	160	118	4-Φ16	23	210	160	265	220	1	12	145
2	DN65	160	130	4-Φ14	160	140	185	135	4-Φ16	25	246	165	275	240	1	12	158
3	DN80	190	150	4-Φ18	185	160	220	160	4-Φ16	30	280	165	315	266	1.5	12	188
4	DN100	210	170	4-Φ18	210	175	260	196	4-Φ18	46	335	185	360	305	1.5	12	205
5	DN150	265	225	8-Φ18	260	230	340	252	4-Φ18	92	415	200	465	400	1.5	16	245
No.	Model	Dimension PN0.6MPa mm			Heavyweight auto-coupling set dimension mm					G	H ₂	H ₃	L	L ₁	Rail pipe (inch)	Φ _e	E
		D	D ₁	n ₁ -Φd ₁₄	A	A ₁	B	B ₁	n ₂ -Φd ₂								
1	DN50	140	110	4-Φ14	160	140	210	166	4-Φ16	72	210	160	265	220	1	12	145
2	DN65	160	130	4-Φ14	200	175	235	185	4-Φ16	73	245	165	275	240	1	12	155
3	DN80	190	150	4-Φ18	230	195	270	210	4-Φ16	80	280	165	315	266	1.5	12	188
4	DN100	210	170	4-Φ18	270	230	320	256	4-Φ20	110	335	185	360	305	1.5	12	212
5	DN150	265	225	8-Φ18	320	260	486	370	4-Φ20	234	415	200	465	400	1.5	16	240
6	DN200	320	280	8-Φ18	390	350	626	490	4-Φ20	361	444	200	530	465	1.5	16	245
No.	Model	Dimension PN0.6MPa mm			Heavyweight auto-coupling set dimension mm					G	H ₂	H ₃	L	L ₁	Rail pipe (inch)	Φ _e	E
		D	D ₁	n ₁ -Φd ₁₄	A	A ₁	B	B ₁	n ₂ -Φd ₂								
1	DN250	395	350	12-Φ22	480	420	666	480	4-Φ30	330	500	200	595	525	2	16	300
2	DN300	445	400	12-Φ22	560	500	760	570	4-Φ30	423	600	250	630	560	2	16	300
3	DN350	505	460	16×Φ22	620	560	860	660	4-Φ30	503	700	250	630	560	2	16	321
4	DN400	565	515	16×Φ26	700	620	980	750	4-Φ40	559	800	300	680	610	3	16	377
5	DN500	670	620	20×Φ26	840	760	1210	930	4-Φ40	736	1000	300	777	707	3	24	408

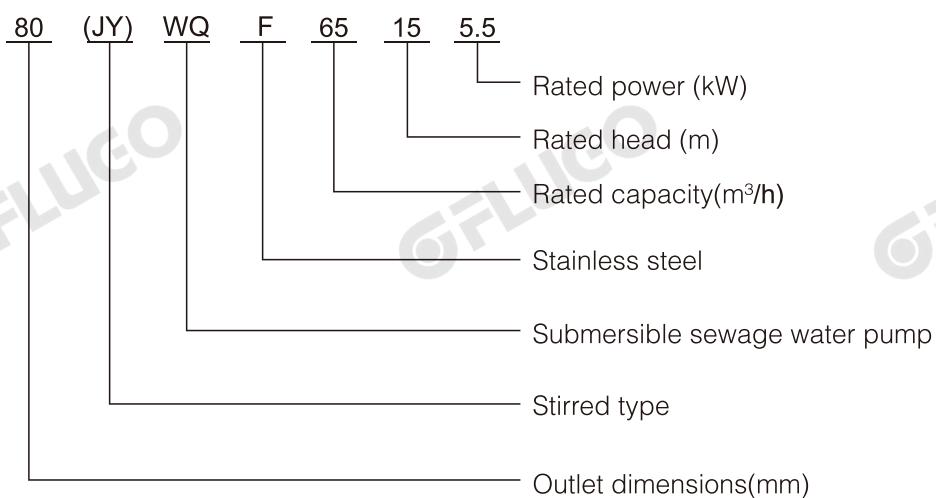
Pump material

Spare parts	Pump casing, impeller, cover	Motor shell	Shaft	Material of mechanical seal	
				Motor side	Pump side
Cast iron pump	HT200/QT600	HT200	45#/20Cr13	Carbon/Sic	Carbon/SIC/WC
Stainless steel pump	304-316L	304-316L	45#/304-316L	Carbon/Sic	Carbon/SIC/WC

WQ submersible sewage water pump Structure drawing



Model definition



Technical data and overall dimensions

WQ Common sewage submersible pump SWS stainless steel same parameter

Diameter (mm)	Model	Flow m ³ /h	Head m	Speed rpm	Power kW	Overall dimensions mm				
						H	H ₁	H ₂	B ₂	B ₃
50	50WQ10-10-0.75	10	10	2900	0.75	400	300	93	217	312
	50WQ15-10-1.1	15	10	2900	1.1	415	315	93	217	312
	50WQ10-15-1.1	10	15	2900	1.1	415	315	93	217	312
	50WQ15-15-1.5	15	15	2900	1.5	493	370	103	250	345
	50WQ15-20-2.2	15	20	2900	2.2	518	390	103	250	345
	50WQ15-25-3	15	25	2900	3	535	405	120	291	386
	50WQ15-32-4	15	32	2900	4	565	435	120	291	386
	50WQ15-40-5.5	15	40	2900	5.5	650	510	123	313	408
	50WQ20-42-7.5	20	42	2900	7.5	690	550	123	313	408
	50WQ20-50-11	20	50	2900	11	765	480	131	372	467
	50WQ20-60-15	20	60	2900	15	805	520	131	372	467
	50WQ20-80-18.5	20	80	2900	18.5	900	680	150	407	502
	50WQ20-90-22	20	90	2900	22	950	700	150	407	502
65	65WQ15-7-0.75	15	7	2900	0.75	400	300	93	217	312
	65WQ15-10-1.1	15	10	2900	1.1	415	315	93	217	312
	65WQ25-10-1.5	25	10	2900	1.5	493	370	103	250	345
	65WQ25-14-2.2	25	14	2900	2.2	518	390	103	250	345
	65WQ25-18-3	25	18	2900	3	535	405	120	291	386
	65WQ40-16-4	40	16	2900	4	565	435	120	291	396
	65WQ30-25-5.5	30	25	2900	5.5	650	510	123	313	408
	65WQ30-35-7.5	30	35	2900	7.5	690	550	123	313	418
	65WQ30-40-11	30	40	2900	11	765	480	131	372	467
	65WQ30-60-15	30	60	2900	15	805	520	131	372	467
	65WQ30-65-18.5	30	65	2900	18.5	900	680	150	407	502
	65WQ30-75-22	30	75	2900	22	950	700	150	407	502
80	80WQ35-7-1.5	35	7	2900	1.5	505	390	107	276	401
	80WQ45-8-2.2	45	8	2900	2.2	530	415	107	276	401
	80WQ35-13-3	35	13	2900	3	560	430	130	295	420
	80WQ50-12-4	50	12	2900	4	590	460	130	295	420
	80WQ40-22-5.5	40	22	2900	5.5	660	520	125	325	450
	80WQ40-30-7.5	40	30	2900	7.5	700	560	125	325	450
	80WQ60-30-11	60	30	2900	11	810	550	160	400	525
	80WQ60-40-15	60	40	2900	15	860	600	160	400	525
	80WQ60-45-18.5	60	45	2900	18.5	960	700	165	407	532
	80WQ60-50-22	60	50	2900	22	1010	780	165	407	532

Diameter (mm)	Model	Flow m ³ /h	Head m	Speed rpm	Power kW	Overall dimensions mm				
						H	H ₁	H ₂	B ₂	B ₃
100	100WQ50-9-3	50	9	2900	3	580	450	136	306	456
	100WQ60-11-4	60	11	2900	4	608	488	136	306	456
	100WQ65-15-5.5	65	15	2900	5.5	690	550	143	320	470
	100WQ65-20-7.5	65	20	2900	7.5	730	590	143	320	470
	100WQ110-10-5.5	110	10	1450	5.5	810	550	180	400	550
	100WQ100-15-7.5	100	15	1450	7.5	860	600	180	400	550
	100WQ80-25-11	80	25	2900	11	810	550	180	400	550
	100WQ80-35-15	80	35	2900	15	860	600	180	400	550
	100WQ100-25-11	100	25	1450	11	910	630	185	480	630
	100WQ100-30-15	100	30	1450	15	950	650	185	480	630
	100WQ80-40-18.5	80	40	2900	18.5	960	650	173	407	557
	100WQ80-45-22	80	45	2900	22	1001	680	173	407	557
	100WQ100-35-18.5	100	35	1450	18.5	1263	950	250	550	700
	100WQ100-40-22	100	40	1450	22	1290	980	250	550	700
	100WQ120-45-30	120	45	1450	30	1340	1000	272	602	752
	100WQ120-50-37	120	50	1450	37	1408	1050	272	602	752
	100WQ100-57-45	100	57	1450	45	1490	1100	270	675	825
	100WQ100-65-55	100	65	1450	55	1622	1200	270	675	825
	100WQ120-75-75	120	75	1450	75	1520	1150	150	750	900
	100WQ120-85-90	120	85	1450	90	1630	1200	150	750	900
150	100WQ130-90-110	130	90	1450	110	1760	1300	150	750	900
	150WQ100-10-5.5	100	10	2900	5.5	707	550	150	356	556
	150WQ140-10-7.5	140	10	2900	7.5	747	600	150	356	556
	150WQ100-20-11	100	20	2900	11	860	630	171	380	580
	150WQ120-15-11	120	15	2900	11	860	630	171	380	580
	150WQ100-30-15	100	30	2900	15	910	650	171	380	580
	150WQ120-25-15	120	25	2900	15	910	650	171	380	580
	150WQ180-11-11	180	11	1450	11	939	670	206	525	725
	150WQ180-15-15	180	15	1450	15	979	700	206	525	725
	150WQ100-36-18.5	100	36	2900	18.5	981	700	185	366	566
	150WQ100-40-22	100	40	2900	22	1011	730	185	366	566
	150WQ180-20-18.5	180	20	1450	18.5	1238	900	223	567	767
	150WQ250-15-18.5	250	15	1450	18.5	1238	900	223	567	767
	150WQ200-20-22	200	20	1450	22	1264	930	223	567	767
	150WQ180-30-30	180	30	1450	30	1300	1000	235	647	847
	150WQ200-30-37	200	30	1450	37	1368	1050	235	647	847
	150WQ200-35-45	200	35	1450	45	1453	1200	236	647	875
	150WQ200-45-55	200	45	1450	55	1622	1300	355	675	875
	150WQ200-55-75	200	55	1450	75	1609	1300	258	764	964
	150WQ200-60-90	200	60	1450	90	1684	1350	258	764	964
	150WQ200-74-110	200	74	1450	110	1796	1400	245	732	932
	150WQ200-80-132	200	80	1450	132	1795	1400	203	884	1084
	150WQ300-95-160	300	95	1450	160	1795	1400	203	884	1084
	150WQ400-90-185	400	90	1450	185	1795	1400	203	884	1084

Diameter (mm)	Model	Flow m ³ /h	Head m	Speed rpm	Power kW	Overall dimensions mm				
						H	H ₁	H ₂	B ₂	B ₃
200	200WQ220-6-7.5	220	6	1450	7.5	910	600	205	450	700
	200WQ180-11-11	180	11	2900	11	890	600	185	430	680
	200WQ180-15-15	180	15	2900	15	922	600	185	430	680
	200WQ300-7-11	300	7	1450	11	979	650	206	525	775
	200WQ250-11-15	250	11	1450	15	979	650	206	525	775
	200WQ180-18-18.5	180	18	2900	18.5	974	600	185	424	674
	200WQ200-20-22	200	20	2900	22	1004	650	185	424	674
	200WQ300-12-18.5	300	12	1450	18.5	1238	900	223	567	817
	200WQ300-15-22	300	15	1450	22	1264	930	223	567	817
	200WQ250-22-30	250	22	1450	30	1321	1000	253	648	898
	200WQ250-27-37	250	27	1450	37	1390	1050	253	648	898
	200WQ350-23-37	350	23	1450	37	1390	1050	253	648	898
	200WQ250-30-45	250	30	1450	45	1578	1250	353	650	900
	200WQ360-26-45	360	26	1450	45	1578	1250	353	650	900
	200WQ400-30-55	400	30	1450	55	1647	1300	353	650	900
	200WQ350-45-75	350	45	1450	75	1609	1300	258	764	1014
	200WQ300-53-90	300	53	1450	90	1684	1350	258	764	1014
	200WQ380-50-90	380	50	1450	90	1684	1350	258	764	1014
	200WQ320-65-110	320	65	1450	110	1814	1450	258	764	1014
	200WQ400-75-132	400	75	1450	132	1795	1400	203	884	1134
	200WQ360-90-160	360	90	1450	160	1795	1400	203	884	1134
	200WQ450-85-185	450	85	1450	185	1926	1520	203	884	1134
250	250WQ400-5-11	400	5	1450	11	987	650	239	592	892
	250WQ400-6-15	400	6	1450	15	1028	700	239	592	892
	250WQ400-10-18.5	400	10	1450	18.5	1265	930	230	636	936
	250WQ500-9-22	500	9	1450	22	1291	1000	230	636	936
	250WQ500-12-30	500	12	1450	30	1349	1050	276	740	1040
	250WQ500-17-37	500	17	1450	37	1420	1100	276	740	1040
	250WQ600-15-45	600	15	1450	45	1504	1150	276	740	1040
	250WQ600-20-55	600	20	1450	55	1571	1200	243	710	1010
	250WQ600-26-75	600	26	1450	75	1647	1250	294	807	1107
	250WQ600-32-90	600	32	1450	90	1720	1350	294	807	1107
	250WQ600-38-110	600	38	1450	110	1852	1450	294	807	1107
	250WQ600-52-132	600	52	1450	132	1928	1520	309	890	1190
	250WQ600-60-160	600	60	1450	160	1928	1520	309	890	1190
	250WQ600-65-185	600	65	1450	185	2137	1730	387	970	1270
300	300WQ650-5-18.5	650	5	1450	18.5	1294	1000	244	712	1062
	300WQ650-7-22	650	7	1450	22	1320	1000	244	712	1062
	300WQ800-7-30	800	7	1450	30	1347	1050	243	712	1062
	300WQ800-9-37	800	9	1450	37	1417	1120	243	712	1062
	300WQ800-12-45	800	12	1450	45	1500	1200	243	712	1062
	300WQ600-20-55	600	20	1450	55	1571	1250	243	712	1062
	300WQ800-20-75	800	20	1450	75	1620	1300	243	760	1110
	300WQ800-26-90	800	26	1450	90	1694	1350	243	760	1110
	300WQ800-32-110	800	32	1450	110	1824	1450	243	760	1110
	300WQ800-37-132	800	37	1450	132	1896	1500	243	865	1215
	300WQ800-40-160	800	40	1450	160	1896	1500	243	865	1215
	300WQ900-40-185	900	40	1450	185	2027	1600	243	865	1215
	300WQ900-45-200	900	45	1450	200	2027	1600	243	865	1215
	300WQ1000-45-250	1000	45	1450	250	2386	1950	376	1100	1450
	300WQ1000-55-315	1000	55	1450	315	2415	2000	376	1100	1450

Diameter (mm)	Model	Flow m³/h	Head m	Speed rpm	Power kW	Overall dimensions mm				
						H	H ₁	H ₂	B ₂	B ₃
350	350WQ1000-6-30	1000	6	980	30	1500	1200	268	907	1307
	350WQ1200-6-37	1200	6	980	37	1500	1200	268	907	1307
	350WQ1200-8-45	1200	8	980	45	1584	1300	268	907	1307
	350WQ1100-7-45	1100	7	1450	45	1554	1250	273	870	1270
	350WQ1100-10-55	1100	10	1450	55	1623	1300	273	870	1270
	350WQ1200-13-75	1200	13	1450	75	1685	1350	273	870	1270
	350WQ1200-14-75	1200	14	980	75	1794	1450	273	1000	1400
	350WQ1200-17-90	1200	17	980	90	1924	1550	273	1000	1400
	350WQ1000-20-90	1000	20	1450	90	1752	1400	273	870	1270
	350WQ800-32-110	800	32	1450	110	1932	1550	303	920	1320
	350WQ1500-16-110	1500	16	980	110	1924	1550	273	1000	1400
	350WQ1500-18-132	1500	18	980	132	2218	1800	411	1230	1630
	350WQ1100-30-132	1100	30	1450	132	1924	1550	273	1000	1400
	350WQ1500-26-160	1500	26	1450	160	1924	1550	273	1000	1400
	350WQ1200-30-185	1200	30	1450	185	2055	1650	273	1000	1400
	350WQ2000-20-200	2000	20	980	200	2258	1850	303	1190	1590
	350WQ1500-35-250	1500	35	1450	250	2277	1850	273	1000	1400
	350WQ1500-45-315	1500	45	1450	315	2378	1950	273	1170	1570
400	400WQ1000-8-37	1000	8	980	37	1529	1200	298	950	1400
	400WQ1200-8-45	1200	8	980	45	1614	1300	298	950	1400
	400WQ1300-8-55	1300	8	1450	55	1714	1350	303	920	1370
	400WQ1200-10-55	1200	10	980	55	1683	1350	298	1000	1450
	400WQ1500-10-75	1500	10	980	75	1824	1450	303	1025	1475
	400WQ1500-16-90	1500	16	980	90	1954	1550	303	1025	1475
	400WQ1600-15-110	1600	15	980	110	1954	1550	303	1025	1475
	400WQ2000-13-132	2000	13	980	132	2135	1800	303	1216	1666
	400WQ2000-18-160	2000	18	980	160	2135	1800	303	1216	1666
	400WQ1500-22-160	1500	22	1450	160	1954	1550	303	1025	1475
	400WQ1600-25-185	1600	25	1450	185	2085	1650	303	1025	1475
	400WQ2000-20-185	2000	20	980	185	2143	1800	302	1206	1656
	400WQ2000-22-200	2000	22	980	200	2258	1850	303	1191	1641
	400WQ2000-28-250	2000	28	980	250	2496	2100	322	1300	1750
	400WQ1500-35-250	1500	35	1450	250	2311	1900	303	1025	1475
	400WQ2000-36-315	2000	36	1450	315	2311	1900	303	1025	1475
500	500WQ2200-5-55	2200	5	980	55	1796	1450	355	1190	1740
	500WQ200-8-75	2000	8	980	75	1871	1500	355	1190	1740
	500WQ1800-12-90	1800	12	980	90	2001	1600	355	1190	1740
	500WQ2500-10-110	2500	10	740	110	2166	1800	355	1375	1925
	500WQ2500-12-132	2500	12	740	132	2544	2100	355	1425	1975
	500WQ2500-13-160	2500	13	980	160	2187	1800	335	1246	1796
	500WQ2500-18-185	2500	18	740	185	2604	2200	355	1425	1975
	500WQ2500-15-185	2500	15	980	185	2336	1900	355	1375	1925
	500WQ2500-18-200	2500	18	980	200	2336	1900	355	1375	1925
	500WQ3000-18-250	3000	18	980	250	2544	2100	355	1425	1975
	500WQ3500-25-315	3500	25	980	315	2604	2200	355	1425	1975
600	600WQ3100-7.5-132	3100	7.5	740	132	2251	1850	410	1590	2240
	600WQ3300-10-160	3300	10	740	160	2544	2100	355	1425	2075
	600WQ2500-14-185	2500	14	980	185	2518	2100	410	1276	1926
	600WQ2500-16-200	2500	16	980	200	2518	2100	410	1276	1926
	600WQ3200-13-200	3200	13	980	200	2518	2100	410	1276	1926
	600WQ4000-18-250	4000	18	980	250	2544	2100	355	1425	2075
	600WQ4500-20-315	4500	20	980	315	2421	2000	410	1590	2240

Note: SWSstainless steel type pump can produce the maximum diameter of 300mm, the maximum power of 132kW.

Technical data and overall dimensions

SW Common sewage submersible pump SWS stainless steel same parameter

Model	Q(m³/h)	5	10	15	20	25	30	35	40	45	50	55
50WQ10-10-0.75	H (m)	11.5	10	8	6							
50WQ10-15-1.1		17	15	12.7	9	4						
50WQ15-10-1.1		14.5	12	10	7.5	4.8						
50WQ15-15-1.5		18	16.5	15	13.3	11.5	9					
50WQ15-20-2.2		23.3	21.8	20	18.2	16.3	14.2	12.7				
50WQ15-25-3		28.5	27	25	23.2	21.3	19.3	17				
50WQ15-32-4		36	34	32	30	28	26.5	23.6	21			
50WQ15-40-5.5		42.5	41.7	40	38	36	34	32	30			
50WQ20-42-7.5		46.5	45	43.5	42	40	38	36	34			
50WQ20-50-11		60	57	54	50	45	30					
50WQ20-60-15		63	62.2	60.7	60	58.3	57	55	53.8	51.7	50	47.5
65WQ15-7-0.75		9.7	9	7	5.3	3.7						
65WQ15-10-1.1		12.8	11.5	10	8	6.5						
65WQ25-10-1.5		15.5	14.4	13.4	11.7	10	8	5.9	3			
65WQ25-14-2.2		17.2	16.7	15.2	14.7	14	13	11.2	9.5	7.6	5.5	
65WQ25-18-3		23	22	20.9	19.6	18	16.5	14.3	12.5	10.2	7.4	
65WQ40-16-4		25.3	24	22.8	21.5	20.2	19	17.5	16.2	14.2	12.6	10.5
65WQ30-25-5.5		31.5	30.5	29	28	26.5	25	23	21.7	19.9	18	16.2
65WQ30-35-7.5		42	41	40	38.7	37.2	35	33	30.7	28	24.7	21

	Q(m³/h)	10	20	30	40	50	60	70	80	90	100	110
80WQ35-7-1.5	H (m)	10	8.9	7.6	6	4.4	2.5					
80WQ40-8-2.2		12	10.8	9.6	8	6.5	4.6					
80WQ35-13-3		17	15.5	14	12	9.7	6.7					
80WQ50-12-4		21	19.5	17.2	15	12	9	5.5				
80WQ40-22-5.5		30.8	28.2	25	22	17	12.1	7				
80WQ40-30-7.5		37	35	33	30	27.3	24.5	20.5	14			
80WQ60-30-11		43	40	37	35	33	30	27	23			
80WQ60-40-15		47	46.4	45	43.5	42	40	37.7	35	32	28.4	
100WQ50-9-3		15.9	15.2	14	12.8	11.3	9	7	4			
100WQ60-11-4		20.5	19	17.5	16	14	11	8	5			
100WQ65-15-5.5		21.8	21	20	19	18	16.5	14.5	12	8		
100WQ65-20-7.5		25.5	24.5	23.5	22.5	21.5	20.5	19.5	18.5	17	15	12.5

	Q(m³/h)	20	40	60	80	100	120	140	160	180	200	220
100WQ100-15-7.5	H (m)			19	17.5	15	12					
100WQ100-25-11			40	35	30	25	19	12				
100WQ100-30-15			45	40	35	30	24	17				
150WQ100-10-5.5		16.5	15.5	13.7	12	10	8	5.8	3.5			
150WQ140-10-7.5		19	18.3	17	15.5	14	12	10	7.8	5.2		

Model	Q(m³/h)	80	100	120	140	160	180	200	220	240	260	280
150WQ180-11-11	H (m)	17	16.5	15.5	14.5	13	11	10.2	8.5	6.5	4.5	
150WQ180-15-15			20.5	19.5	18.2	17	15	14	13	11	9	
150WQ180-20-18.5			23	22.4	21.5	21	20	19.3	18.4	17.5	16.5	13.6
150WQ250-15-18.5				22	21	20	19	18	17	15.7	14.5	13.3
150WQ200-20-22			25.5	25	24	23	21.5	20	19	18	17	16
150WQ200-25-30		31	30	29	28	27	26	25	23	21.5	20	
150WQ200-30-37			35	34	33	32	31	30	29	27.5	26.5	24
150WQ200-35-45		42	41	39	38	37	36	35	34	32.5	31.5	30
150WQ200-45-55		52	51	49	48	47	46	45	43.5	42	40.5	39
150WQ200-55-75		61	60	59	58	57	56	55	53	51.5	50.5	48
150WQ200-60-90		67	66	65	64	63	61.5	60	58	57	55	53
150WQ200-74-110		82	80.5	79	77.5	76	75	74	72	70	68	66
150WQ200-80-132		86	85	84	83	82	81	80	79	78	77	76
200WQ220-6-7.5		12	11.5	11	10.5	10	8.5	7.5	6	4.5	3	2

Model	Q(m³/h)	150	200	250	300	350	400	450	500	550	600	650
200WQ300-7-11	H (m)	15	13	10	7	3						
200WQ250-11-15		16	14	11	7	2						
200WQ300-12-18.5		18	16	14	12	8	5					
200WQ300-15-22		23	20	18	15	12	10	3				
200WQ250-22-30		25.5	24	22	20	18	15	11				
200WQ300-20-30		25.5	24	22	20	18	15	11	4			
200WQ300-25-37			28.5	27	25	23	20.5	17.5	8			
200WQ300-28-45		33	31.5	30	28	26	24	20	7.5			
200WQ300-37-55		42	41	39	37	34.5	32	20				
200WQ350-40-75		49	47	45	43	40	35	25				
200WQ300-53-90		58	56.5	55	53	51	48	20				
200WQ300-65-110		72	70	67.5	65	62.5	58.5	31				
200WQ400-75-132		87	84.5	82	79.5	77.5	75	70	64			
200WQ300-95-160		100	99	97	95	92	85.5					
200WQ450-85-185		100	98	96	94	91	88	85	80	75	69	
250WQ400-6-15		12	11	10	9	7.5	6	4.8	3.5	1.5		
250WQ400-10-18.5		15.5	14.5	13.5	12.5	11.2	10	8	6	2.5		
250WQ500-9-22		18.5	17.5	16.5	15.5	14	12.5	11	9	8	6	4

	Q(m³/h)	200	300	400	500	600	700	800	900	1000	1100	1200
250WQ600-9-30	H (m)	17.5	16.5	14.5	12.5	9	5.5					
250WQ600-12-37		20	19	17	15	12	5.8					
250WQ600-15-45		24	22.5	21	19.5	15	10.8					
250WQ600-20-55		27	26	24.8	23	20	14	3				
250WQ600-26-75		34	32	30	28.5	26	24	17				
250WQ500-34-90		39	37.5	36	34	32	18	2				
250WQ600-38-110		45	43	41	39.5	38	35	33	29	24		
250WQ600-50-132		58	56	54	52	50	45	30				
250WQ600-60-160		70	67.5	65	62.5	60	56					
250WQ600-65-185		72.5	72	70	68	65	62	27				
300WQ800-9-37		23	21	19	16	13.5	11.5	9	6.2	2		
300WQ800-12-45			24	23	20.5	18	15	12	9	4		
300WQ600-20-55			24.5	23	21.3	20	18	15	11	8		
300WQ800-20-75		30.5	29	27.5	25.8	22.4	22	20	17	14	8	
300WQ800-26-90		37	35.5	33.8	32	30	28	26	22.5	16	3	
300WQ800-32-110		44	42.5	41	40	39.5	35.5	32	29.5	27	22	
300WQ800-37-132		47	46	45	43	41	39	37	33	29	18	
300WQ800-40-160		52	51	50	47.5	45	42.5	40	36	32	22	
300WQ900-40-185		58	55	52.5	50.5	48	45	42.5	40	37	12	
300WQ900-45-200		63	60	57.5	55.5	53	50	47.5	45	42	17	
350WQ1000-6-30					11	10	9	8	7	6	5	3.5

Model	Q(m³/h)	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
350WQ1200-6-37	H (m)	11	10	9	8	7	6	4.5	2.5			
350WQ1100-7-45		14	13	11	9	7	5	2.5				
350WQ1200-8-45		13.5	12.7	12	11	9.5	8	6	4.5	2.3		
350WQ1100-10-55		15.5	14.5	13	11.8	10	8	6	3.8	2		
350WQ1200-13-75		22.5	21	19.3	17.5	15.5	13	7.5				
350WQ1200-17-90		22.1	21.5	21	19.7	18.3	17	15.5	14	12	10	
350WQ1500-16-110		21	20	19.5	19	18.5	18	17.5	16.7	16	15	14
350WQ1100-30-132		36	34.8	33.3	32	30	27	18.5				
350WQ1500-18-132			22	21.5	21	20.5	20	19	18.5	18	17	16
350WQ1500-26-160			34.7	33.5	32.5	31.5	30	28.7	27.5	26	24.7	23.5
350WQ1200-30-185		37.5	36.8	35	33	31.5	30	28	24	18		
400WQ1000-8-37		11	10	9	8	6.8	5.5	4.3	3	1.5		
400WQ1200-8-45		13.5	12.7	12	11	9.5	8	6	4.5	2.3		
400WQ1200-10-55		15.5	14.7	14	13	11.5	10	8	6.5	4.5		
400WQ1500-10-75		18.5	17.5	16.8	15.5	14.5	14	12.2	11	10	8	

Model	Q(m³/h)	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
400WQ1200-15-75	H (m)	17	16	15	12.6	10.7	9	5				
400WQ1500-16-90			21.5	19.5	18	16	13.5	3.5				
400WQ1600-15-110				16.7	16	15.3	14.7	13.4	12	10	8	6
400WQ2000-13-132		22	21	20	19	18	16.5	15	13.3	12	10.5	9
400WQ1500-22-160		31	28.8	26.5	24	22	19.5	10				
400WQ2000-18-160			25	24.5	23.5	22.5	21.6	20.2	18.7	16.8	15.5	8.5
400WQ2000-20-185		30.5	29.5	28.4	27.5	25.5	24	22	20.3	19.5	18	15
400WQ2000-22-200		32	31	30	29	28	26.5	25	23.5	22	20	18
400WQ1500-35-250		44	42	40	37.5	35	32	25				

	Q(m³/h)	700	1000	1300	1600	1900	2200	2500	2800	3100	3400	3700
500WQ1800-12-90	H (m)	18.5	17	15.5	13.5	11.3	8.8	6	3			
500WQ2500-10-110		16	15.2	14.2	13.2	12.2	11.2	10	8.7	7.1	6	4.5
500WQ2500-12-132		24	23	21	18.8	17	14.5	12	9	7	2	
500WQ2500-13-160		26	24.4	22.5	20.5	18	15.6	13	10	7	3	
500WQ2500-14-185		23.5	22	20.5	19	17.5	15.8	14	12	9.5	7	4
500WQ2500-16-200		25.5	24	22.5	21	19.5	17.8	16	14	11.5	9	6
500WQ2500-18-185		25.5	24.5	23.8	22.5	21	19.5	18	16	13.5	10.5	7.5

	Q(m³/h)	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
600WQ2500-14-185	H (m)	23	21	19	17	15	12	8	4			
600WQ2500-16-200		25	23	21	19	17	14	10.5	6			
600WQ3200-13-185		26	25	23	21	18.8	16	13	9	5		

Supply scope,related dimensions

1.Supply scope table

Installation method	Complete sets of supply parts	Optional parts		Spare parts
Installation of mobile hose	Main pump, rubber hose coupling	Hose	Electric control cabinet,terminal box gate(disc),valve,check valve, chain cable(for lifting pumps), trash rack(customized),hoist, (customized),rectangular valve (customized)	Impeller Sealing ring Bearing Mechanical seal
Installation of mobile hard pipe	Main pump, flange piece	Double flange elbow		
Installation of automatic coupling	Main pump, automatic coupling installation	Guide rod ground screw expansion bolt		

The electric control cabinet must have a control system that matches the components such as internal leakage and thermal protection of main pump in order to ensure that the operation of main pump is reliable and safe.Our electric control cabinet involved in sewage pump is a product that specially developed for sewage pump in SW series,which can more effectively protect the safe operation of main pump and its real-automatic control.

2.Related dimension of cast iron automatic coupling installation and mobile installation with hose dimension length unit:mm(except for inch)

Pump diameter	50	65	80	100	150	200	250	300	350	400	500
Project	50	65	80	100	150	200	250	300	350	400	500
Size of guide tube Water supply pipe/seamless steel tube	1"/32×3		1.5"/48×3				2"/60×3				2.5"/76×4
Length of guide tube mm	Pool depth-30				-300	-350	-400	-500	-600	-700	Pool depth-850
Specification and quantity of expansion bolt	M12×80×2				M14×100×2						M20×120×2
Specification and quantity of foundation bolt	M16×250×4						M20×300×4				M24×350×4
Reserved hole size of foundation bolt	80×80×300						100×100×350				120×120×400
Inner diameter of rubber hose	50	65	75	100	150	200	250	300	350	400	500