



<http://www.atcgroups.com/>



<https://www.google.com/maps>

AIRTAC ENTERPRISES PHILS. CO. LTD. CORP

MAIN OFFICE: UNIT 57 & 58 CENTURY COMMERCIAL COMPLEX V
PALIPARAN ROAD SALAWAG DASMARIÑAS, CAVITE

TELEPHONE NO. : (046)430-0027 (046)430-0034 (046)430-0080
(046)884-6468 (046)884-6252 (046)884-1155
(046)884-1166 (046)884-6296 (046)686-2217
(046)686-2204 (028) 463-1269 (028)463-1270
(028)463-1279

EMAIL ADDRESS: AIRTAC.ATCGROUP@YAHOO.COM

MANILA BRANCH: 527-A, Valenzuela, 1440 Metro Manila
TELEPHONE NO.: 0945-522-8595 / 0962-589-0686

CEBU BRANCH: Mandawe City Cebu
TELEPHONE NO. 0954-197-9213 / 0961-745-6005

BACOLOD BRANCH: Bacolod, negros Occidental
TELEPHONE NO. 0905-441-5695 / 0962-742-4187

CAGAYAN DE ORO BRANCH: Cagayan de Oro, Misamis Oriental
TELEPHONE NO. 0961-641-1927

SELF PRIMING PUMP

HIGH PERFORMANCE | DURABLE | EFFICIENT

The Self Priming Pump is designed to handle various fluids with ease, providing reliable performance even with air in the suction line. Ideal for industrial, commercial and agricultural applications.

*Reliable
Self Priming
Performance*




BUILT FOR
CONTINUOUS
OPERATION



SELF PRIMING
CAPABILITY



RUGGED &
DURABLE DESIGN



HIGH
EFFICIENCY



LOW
MAINTENANCE



WIDE RANGE
OF APPLICATIONS

IDEAL FOR:



INDUSTRIAL
PLANTS



COMMERCIAL
BUILDINGS



AGRICULTURE



WATER SUPPLY
SYSTEMS



CHEMICAL
INDUSTRY



OIL & GAS
INDUSTRY

C Enterprise Profile

Company profile

Shandong Dong Pump Industry Co., Ltd. is a professional manufacturer specializing in pump products with years of experience in water pump production. The company integrates design development, manufacturing, sales, and after-sales services into a comprehensive system. From design, hydraulic modeling, testing, casting, machining, inspection, assembly, testing, installation, commissioning, operation to after-sales service, all processes strictly comply with quality management certification requirements.

Currently, the company is a leading enterprise in China's pump industry with comprehensive product lines, large-scale production capacity, and substantial export volumes. Its core products include two major series: commercial pumps and industrial pumps. The commercial water pumps, one of the company's flagship products, cover five key sectors: fire pumps, building pumps, heating pumps, and sewage pumps. Industrial pumps span seven core areas: water supply systems, power stations, nuclear applications, petroleum metallurgy, chemical processing, mining operations, and steel mills. These products are widely used in critical national industries such as petrochemicals, thermal power, nuclear energy, water conservancy, construction, wastewater treatment, seawater desalination, and mining metallurgy. The company's products have earned widespread market acclaim for their superior quality.

Enterprise purpose: customer-centered, customer 100% satisfaction

Corporate Spirit: Common Cause, Common Future

Quality policy: Integrity first, excellence, technical progress, quality service

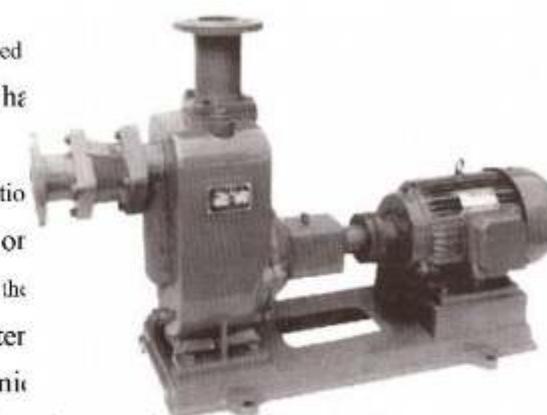
ZW Self-Priming Sewage Pump

I. GENERAL

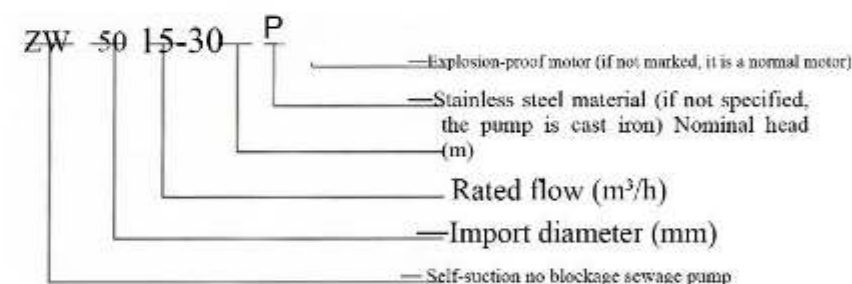
The ZW series self-priming sewage pump was developed through repeated Based on the study of similar products at home and abroad, we have A product with a novel structure.

This pump combines self-priming and non-clogging discharge function. The water suction pump requires no installation of a foot valve or The aforementioned pump models can handle particles with impurities, provided the A liquid impurity with a viscosity 1.5 times the impeller diameter Yamagata drainage and light industry, paper, textile, food, chemical Industries such as gold, food, medicine, municipal sewage and pond aquaculture are the current The most ideal impurity pump for pumping solid particles, fibers, slurry and mud suspension medium.

Compared with similar domestic products, the pump has the characteristics of simple structure, good self-suction performance, strong sewage discharge capacity, high efficiency and energy saving, convenient use and maintenance. It is the first in the domestic sewage pump series, and its technical indicators are leading in China, reaching the international advanced level, with a broad application market and development prospects.



2. Model Description



III. Structure and Working Principle

The ZW series self-priming sewage pump consists of a pump body, impeller, pump cover, bearing housing, pump shaft, inlet valve, and water supply bolt.

Working Principle of the Pump: The pump housing contains a liquid storage chamber connected to the working chamber through an upper self-flow hole and a lower circulation pool, forming an axial backflow external mixing system. During startup, the pump draws air from the intake pipe and mixes it with water under pressure within the impeller. As the impeller rotates, it pushes the air toward the outlet, gradually exhausting the air from the intake pipe to achieve self-priming. This process ultimately ensures normal water supply.

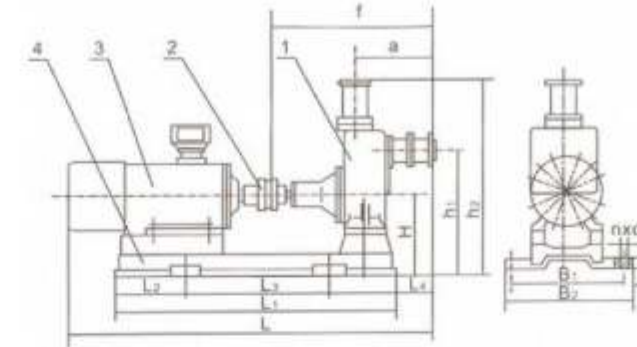
IV. Technical Features

The ZW model pump is self-priming, eliminating the need for a foot valve or vacuum pump. Pumps with a diameter over 65mm feature open impellers that prevent clogging by small particles, ensuring smooth water flow. This pump can also be powered by a diesel engine, with speeds adjustable between 1500r/min and 2900r/min (though pump parameters may vary). Diesel engines are available in 5 or 15 horsepower configurations.

5. Model and Performance Parameters

Model	Rate of flow (m ³ /h)	Head of delivery (m)	Power (kW)	Speed (r/min)	Productiveness (%)	Net positive suction head (m)	Siphon height (m)	Self-suction time(min/5m)	Weight (kg)
ZW25-8-15	8	15	2.2	2900	45	2.0	5.5	3	100
ZW32-5-20	5	20	2.2	2900	45	2.5	5.5	3	100
ZW32-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
ZW32-9-30	9	30	3	2900	48	2.5	5.5	3	120
ZW40-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
ZW40-20-15	20	15	2.2	2900	45	2.5	5.5	3	100
ZW40-15-30	15	30	3	2900	48	2.5	5.5	3	120
ZW50-10-20	10	20	2.2	2900	45	2.5	5.5	3	100
ZW50-20-12	20	12	2.2	2900	45	2.5	5.5	3	100
ZW50-15-30	15	30	3	2900	48	2.5	5.5	3	120
ZW50-20-35	20	35	5.5	2900	48	2.5	5.5	3	150
ZW65-30-18	30	18	4	1450	45	2.5	5.5	3	200
ZW65-25-30	25	30	5.5	2900	50	3.0	5.5	3	200
ZW65-25-40	25	40	7.5	2900	50	3.0	5.5	2	200
ZW65-40-25	40	25	7.5	1450	50	3.0	5.5	2	200
ZW65-65-25	65	25	7.5	2900	52	3.0	5.5	2	240
ZW80-40-16	40	16	4	1450	50	3.0	5.0	3	240
ZW80-40-25	40	25	7.5	1450	50	3.0	5.5	2	200
ZW80-25-40	25	40	7.5	2900	50	3.0	5.5	2	200
ZW80-65-25	65	25	7.5	2900	52	3.0	5.5	2	240
ZW80-80-35	80	35	15	2900	45	3.0	5.5	3	285
ZW80-80-35	80	35	15	1450	50	3.0	5.5	2	450
ZW80-50-60	50	60	22	2900	55	3.0	5.0	3	340
ZW100-100-15	100	15	7.5	1450	50	4.0	5.5	3	300
ZW100-80-20	80	20	7.5	1450	53	4.0	5.5	3	300
ZW100-100-20	100	20	11	1450	53	4.0	5.5	3	340
ZW100-100-30	100	30	22	2900	53	4.0	5.5	2	510
ZW125-120-20	120	20	15	1450	55	4.5	5.5	2	500
ZW150-180-14	180	14	15	1450	60	5.0	5.5	3.5	500
ZW150-180-20	180	20	22	1450	60	5.0	5.0	3	570
ZW150-180-30	180	30	37	1450	65	5.0	5.0	3	680
ZW150-180-38	180	38	55	1450	45	5.0	6.0	3.5	800
ZW200-280-14	280	14	22	1450	65	5.0	5.0	3	700
ZW200-280-28	280	28	55	1450	55	4.8	5.2	3	940
ZW250-420-20	420	20	55	1450	61	6.0	4.5	2.5	1150
ZW300-800-14	800	14	55	1450	65	6.0	4.5	2.5	1400

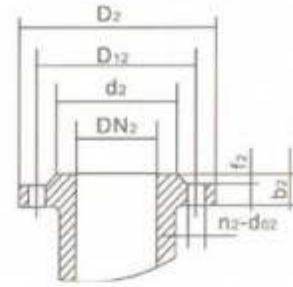
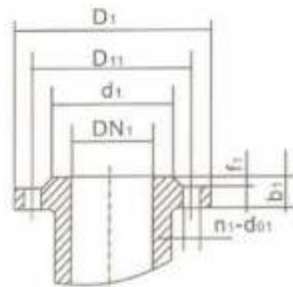
VI. Appearance and Installation Dimensions



- 1、 pump
- 2、 Coupling
- 3、 Motor
- 4、 lampstand

Model	L	L1	L2	L3	L4	a	f	B1	B2	H	h1	h2	h3	nxd
ZW25-8-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW32-5-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW32-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW32-9-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×Φ18
ZW40-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW40-20-15	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW40-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×Φ18
ZW50-10-20	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW50-20-12	850	680	115	450	240	255	510	310	370	228	410	625	24	4×Φ18
ZW50-15-30	890	710	130	450	240	260	510	310	370	238	410	630	24	4×Φ18
ZW50-20-35	980	750	125	500	240	250	480	390	450	238	410	630	24	4×Φ18
ZW65-30-18	1040	760	135	500	340	350	650	380	450	265	485	760	25	4×Φ18
ZW65-25-30	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×Φ18
ZW65-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×Φ18
ZW65-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4×Φ18
ZW65-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4×Φ18
ZW80-40-16	1040	760	135	500	340	350	650	380	450	265	485	760	25	4×Φ18
ZW80-40-25	1165	850	135	580	340	350	650	370	430	265	485	760	25	4×Φ18
ZW80-25-40	1230	850	135	580	340	350	700	370	520	270	480	720	25	4×Φ18
ZW80-65-25	1300	940	150	640	350	350	700	430	485	270	480	720	25	4×Φ18
ZW80-80-35	1300	1020	190	640	360	350	700	450	520	270	480	720	25	4×Φ23
ZW80-80-35	1365	1180	230	730	330	370	760	480	540	350	600	890	25	4×Φ23
ZW80-50-60	1360	1020	190	640	400	350	650	450	520	280	495	770	25	4×Φ23
ZW100-100-15	1230	920	140	630	375	400	730	450	510	330	630	920	28	4×Φ23
ZW100-80-20	1230	920	140	630	375	400	730	450	510	330	630	920	28	4×Φ23
ZW100-100-20	1320	1020	200	625	420	400	730	450	510	330	630	920	28	4×Φ23
ZW100-100-30	1650	1300	320	730	480	460	900	480	550	330	570	870	30	4×Φ23
ZW125-120-20	1600	1170	175	820	450	510	880	480	540	330	665	990	30	4×Φ23
ZW150-180-14	1600	1170	175	820	450	510	880	480	540	330	665	990	30	4×Φ23
ZW150-180-20	1580	1300	200	730	500	490	870	480	550	350	700	1030	30	4×Φ23
ZW150-180-30	1690	1370	235	800	500	490	870	520	600	350	700	1030	30	4×Φ23
ZW150-180-38	1920	1570	245	1080	400	490	870	580	660	350	700	1020	30	4×Φ23
ZW200-280-14	1920	1470	270	970	520	650	1090	520	565	350	700	1090	30	4×Φ23
ZW200-280-28	2020	1570	245	1080	500	650	1090	580	660	350	700	1090	30	4×Φ23
ZW250-420-20	2180	1600	325	950	720	800	1330	610	670	430	800	1200	30	4×Φ23
ZW300-800-14	2580	1880	300	1280	800	1030	1500	610	655	530	900	1350	30	4×Φ23

7. Inlet and Outlet Flange Dimensions



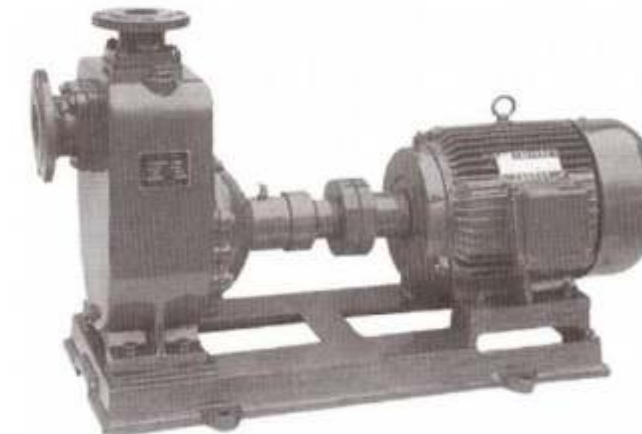
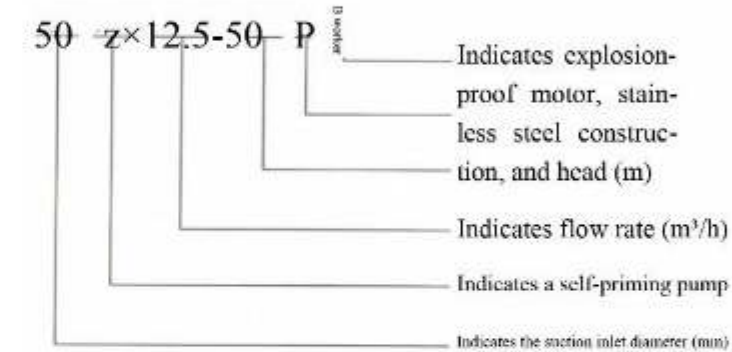
Model	Inlet flange size							Exhaust port flange size						
	DN1	Di	D11	d1	b1	f1	n1×d01	DN2	D2	D12	d2	b2	f2	n2×d02
ZW25-8-15	25	100	75	60	14	2	4×Φ14	25	100	75	60	14	2	4×Φ14
ZW32-5-20	32	120	90	70	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW32-10-20	32	120	90	70	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW32-9-30	32	120	90	70	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW40-10-20	40	130	100	80	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW40-20-15	40	130	100	80	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW40-15-30	40	130	100	80	14	2	4×Φ14	32	120	90	70	14	2	4×Φ14
ZW50-10-20	50	140	110	90	14	2	4×Φ14	40	130	100	80	14	2	4×Φ14
ZW50-20-12	50	140	110	90	14	2	4×Φ14	40	130	100	80	14	2	4×Φ14
ZW50-15-30	50	140	110	90	14	2	4×Φ14	40	130	100	80	14	2	4×Φ14
ZW50-20-35	50	140	110	90	14	2	4×Φ14	40	130	100	80	14	2	4×Φ14
ZW65-30-18	65	160	130	110	14	2	4×Φ14	65	160	130	110	14	2	4×Φ14
ZW65-25-30	65	160	130	110	14	2	4×Φ14	65	160	130	110	14	2	4×Φ14
ZW65-25-40	65	160	130	110	14	2	4×Φ14	65	160	130	110	14	2	4×Φ14
ZW65-40-25	65	160	130	110	14	2	4×Φ14	65	160	130	110	14	2	4×Φ14
ZW65-65-25	65	160	130	110	14	2	4×Φ14	65	160	130	110	14	2	4×Φ14
ZW80-40-16	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-40-25	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-25-40	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-65-25	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-80-35	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-80-35	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW80-50-60	80	190	150	125	15	2	4×Φ18	65	160	130	110	14	2	4×Φ14
ZW100-100-15	100	210	170	145	15	2	4×Φ18	80	190	150	125	15	2	4×Φ18
ZW100-80-20	100	210	170	145	15	3	4×Φ18	80	190	150	125	15	2	4×Φ18
ZW100-100-20	100	210	170	145	15	3	4×Φ18	80	190	150	125	15	2	4×Φ18
ZW100-100-30	100	210	170	145	15	3	4×Φ18	80	190	150	125	15	2	4×Φ18
ZW125-120-20	125	240	200	175	20	3	8×Φ18	125	240	200	175	20	3	8×Φ18
ZW150-180-14	150	265	225	200	20	3	8×Φ18	125	240	200	175	20	3	8×Φ18
ZW150-180-20	150	265	225	200	20	3	8×Φ18	125	240	200	175	20	3	8×Φ18
ZW150-180-30	150	265	225	200	20	3	8×Φ18	125	240	200	175	20	3	8×Φ18
ZW150-180-38	150	265	225	200	20	3	8×Φ18	125	240	200	175	20	3	8×Φ18
ZW200-280-14	200	320	280	255	22	3	8×Φ18	150	265	225	200	20	3	8×Φ18
ZW200-280-28	200	320	280	255	22	3	8×Φ18	150	265	225	200	20	3	8×Φ18
ZW250-420-20	250	375	335	310	24	3	12×Φ18	200	320	280	255	22	3	8×Φ18
ZW300-800-14	300	435	395	362	24	4	12×Φ23	250	375	335	310	24	3	12×Φ18

ZX Self-Priming Pump

I. GENERAL

The ZX self-priming pump, developed in compliance with ISO international standards and advanced hydraulic models tailored to China's specific conditions, represents a new generation of products. Featuring stable performance, reliable operation, high efficiency, low noise, compact structure, and an aesthetically pleasing design, it offers easy installation and maintenance. Currently the most ideal energy-saving replacement for the CYZ self-priming oil pump in China, this pump is widely applicable across industries including petroleum, chemical, pharmaceutical, environmental protection, urban construction, mining, transportation, and power sectors.

2. Model Significance



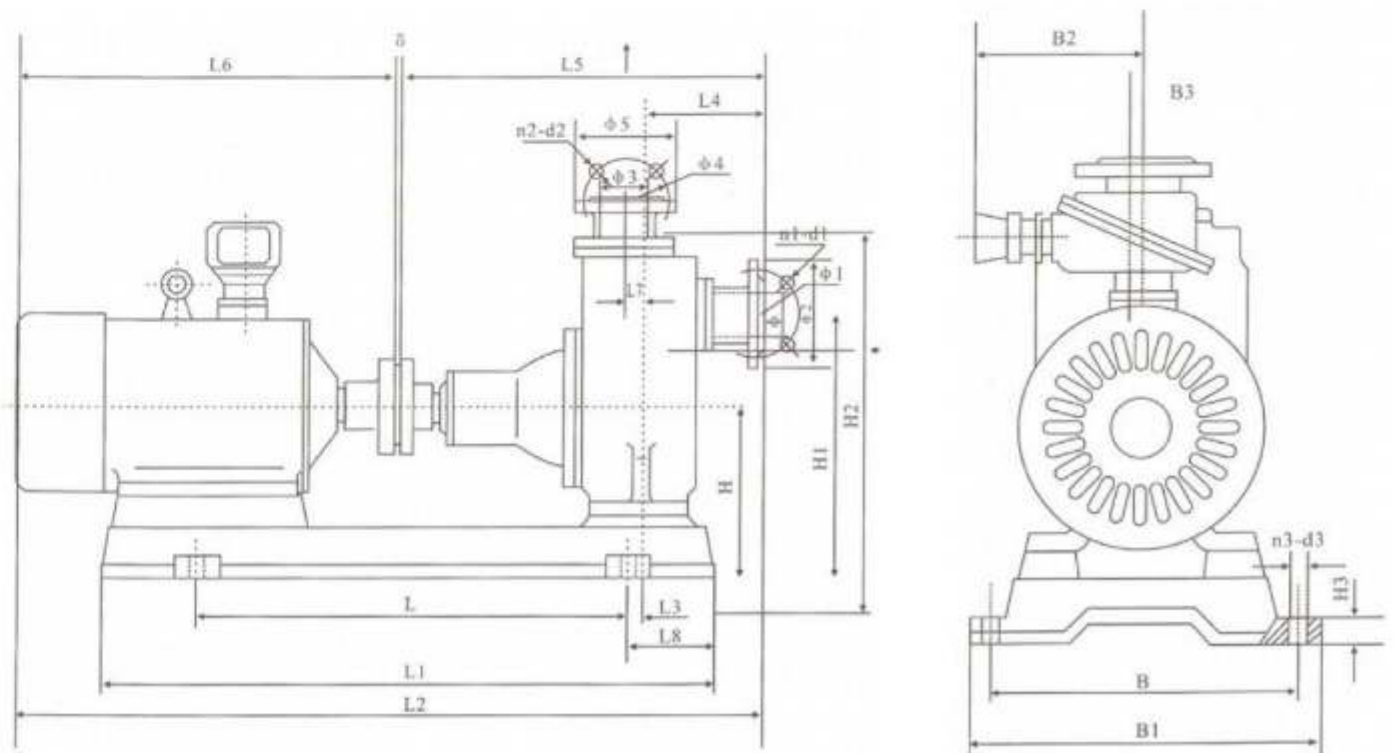
3. Pump Model and Performance Parameters Table

Performance parameters Pump model	Rate of flow		Head of delivery (m)	Stroke (m)	Revolutions (r/min)	Self-priming performance (mm/5 m)	Power (kw)		Pump outlet diameter (mm)	
	(m³/h)	(L/S)					Shaft power	Power of motor	Inlet	Discharge
25ZX3.2-20	3.2	0.9	20	6.5	2900	1.9	0.46	0.75	25	25
25ZX3.2-32	3.2	0.9	32	6.5	2900	1.8	0.8	1.1	25	25
40ZX6.3-20	6.3	1.8	20	6.5	2900	1.9	0.87	1.1	40	32
40ZX10-40	10	2.8	40	6.5	2900	1.5	2.7	4	50	40
50ZX15-12	15	4.2	12	6.5	2900	2.4	1.1	1.5	50	50
50ZX18-20	18	5	20	6.5	2900	1.9	1.8	2.2	50	50
50ZX12.5-32	12.5	3.5	32	6.5	2900	1.5	2.1	3	50	50
50ZX20-30	20	5.6	30	6.5	2900	1.5	2.6	4	50	50
50ZX14-35	14	3.9	35	6.5	2900	1.5	2.7	4	50	50
50ZX10-40	10	2.8	40	6.5	2900	1.5	2.7	4	50	50
50ZX12.5-50	12.5	3.5	50	6.5	2900	1.4	4.3	5.5	50	50
50ZX15-60	15	4.2	60	6.5	2900	1.3	6.2	7.5	50	50
50ZX20-75	20	5.6	75	6.5	2900	1.3	9.8	11	50	50
65ZX30-15	30	8.3	15	6.5	2900	2	1.9	3	65	65
65ZX25-32	25	6.9	32	6	2900	1.5	4.4	5.5	65	65
80ZX35-13	35	9.7	13	6	2900	3.4	1.9	3	80	80
80ZX43-17	43	12	17	6	2900	1.8	3.1	4	80	80
80ZX40-22	40	11.1	22	6	2900	1.9	4.4	5.5	80	80
80ZX50-25	50	13.9	25	6	2900	1.5	5.2	7.5	80	80
80ZX50-32	50	13.9	32	6	2900	1.5	6.8	7.5	80	80
80ZX50-50	50	13.9	50	6	2900	1.5	11.7	15	80	80
80ZX60-55	60	16.7	55	6	2900	1.5	15	18.5	80	80
80ZX60-70	60	16.7	70	6	2900	1.2	20.1	22	80	80
100ZX100-20	100	27.8	20	6	2900	1.8	7.8	11	100	100
100ZX100-32	100	27.8	32	6	2900	1.8	11.7	15	100	100
100ZX100-40	100	27.8	40	6	2900	1.8	16.3	22	100	100
100ZX100-65	100	27.8	65	6	2900	1.8	27.7	30	100	100
100ZX70-75	70	19.4	75	6	2900	1.8	24.2	30	100	100
150ZX170-45	170	47.2	45	5	2900	1.8	32.2	37	150	150
150ZX170-55	170	47.2	55	5	2900	1.8	39.2	45	150	150
150ZX170-65	170	47.2	65	5	2900	1.3	46.3	55	150	150
150ZX160-80	160	44.4	80	5	2900	1.2	53.6	55	150	150
200ZX400-32	400	111.1	32	5	1450	2	52.1	55	200	200
200ZX280-63	280	77.8	63	5	1450	1.5	73.9	90	200	200
200ZX350-65	350	97.2	65	5	1450	1.5	97.2	110	200	200
250ZX550-32	550	152.8	32	5	1450	2	72.3	75	250	250
250ZX400-50	400	111.1	50	5	1450	2	80	90	250	250
250ZX450-55	450	125	55	5	1450	2	102.1	110	250	250
250ZX400-75	400	111.1	75	5	1450	1.5	125.6	132	250	250
300ZX600-32	600	166.7	32	5	1450	2	79.2	90	300	300
300ZX500-50	500	138.9	50	5	1450	2	104.6	110	300	300
300ZX550-55	550	152.8	55	5	1450	2	117.6	132	300	300

Pump Model and Performance Parameters Table

Performance parameters pump model	Rate of flow		Head of delivery (m)	Stroke (m)	Speed (r/min)	Self-priming performance (mm/5 m)	Power (kw)		Pump diameter (mm)	
	(m³/h)	(L/S)					Power of motor		Inlet	Discharge
150ZX200-20	200	55.5	20	5	1450	2	18.5		150	150
150ZX200-32	200	55.5	32	5	1450	2	30		150	150
150ZX200-50	200	55.5	50	5	1450	2	45		150	150
150ZX200-80	200	55.5	80	5	2900	2	75		150	150
200ZX400-20	400	112	20	5	1450	2	37		200	200
250ZX550-20	550	153	20	5	1450	2.5	45		250	250
250ZX500-17	500	138.9	17	5	1450	2.5	37		250	250
250ZX550-32	550	152.8	32	5	1450	2.5	75		250	250
250ZX450-40	450	125	40	5	1450	3	90		250	250
300ZX720-32	720	200	32	5	1480	2.5	90		300	300
300ZX650-28	650	180.6	28	5	1480	2.5	75		300	300
300ZX600-50	600	166.7	50	5	1480	3	132		300	300
350ZX1050-25	1050	291.7	25	5	1450	3	132		350	350
350ZX1050-35	1050	291.7	35	5	1450	3.5	160		350	350
350ZX1100-48	1100	305.6	48	5	1450	3.5	220		350	350
350ZX810-42	810	225	42	5	1450	3.5	160		350	350

4. Pump Shape and Installation Size Diagram

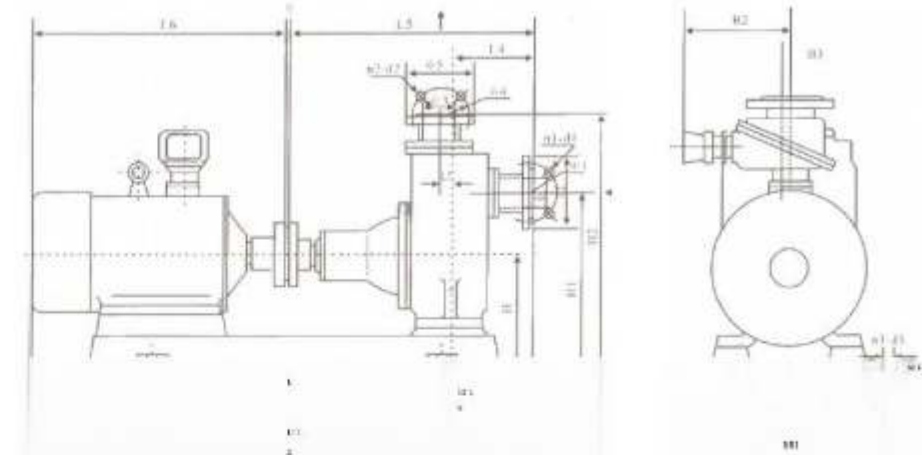


Pump type	Electric motor		N	D	H	L	F	I	J	K	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI
-----------	----------------	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

4. Pump Model and Performance Parameters Table

Performance parameters pump model	Rate of flow		Head of delivery (m)	Stroke (m)	RPM	Self-priming performance (min ⁵ m)	Power (kw)		Pump diameter (mm)		Unit weight (kg)
	(m ³ /h)	(L/S)					Shaft power	Power of motor	Intake	Discharge	
25CYZ-A-20	3.2	0.9	20	6.5	2900	1.9	0.46	0.75	25	25	72
25CYZ-A-32	3.2	0.9	32	6.5	2900	1.8	0.8	1.1	25	25	80
40CYZ-A-20	6.3	1.8	20	6.5	2900	1.9	0.87	1.1	40	32	85
40CYZ-A-40	10	2.8	40	6.5	2900	1.5	2.7	4	50	40	140
50CYZ-A-12	15	4.2	12	6.5	2900	2.4	1.1	1.5	50	50	90
50CYZ-A-20	18	5	20	6.5	2900	1.9	1.8	2.2	50	50	98
50CYZ-A-30	20	5.6	30	6.5	2900	1.5	2.6	4	50	50	140
50CYZ-A-35	14	3.9	35	6.5	2900	1.5	2.7	4	50	50	145
50CYZ-A-40	10	2.8	40	6.5	2900	1.5	2.7	4	50	50	145
50CYZ-A-50	12.5	3.5	50	6.5	2900	1.4	4.3	5.5	50	50	160
50CYZ-A-60	15	4.2	60	6.5	2900	1.3	6.2	7.5	50	50	190
50CYZ-A-75	20	5.6	75	6.5	2900	1.3	9.8	11	50	50	240
65CYZ-A-15	30	8.3	15	6.5	2900	2	1.9	3	65	50	100
65CYZ-A-32	25	6.9	32	6	2900	1.5	4.4	5.5	65	50	165
80CYZ-A-13	35	9.7	13	6	2900	3.4	1.9	3	80	65	107
80CYZ-A-17	43	12	17	6	2900	1.8	3.1	4	80	65	156
80CYZ-A-22	40	11.1	22	6	2900	1.9	4.4	5.5	80	65	169
80CYZ-A-25	50	13.9	25	6	2900	1.5	5.2	7.5	80	80	177
80CYZ-A-32	50	13.9	25	6	2900	1.5	6.8	7.5	80	80	180
80CYZ-A-55	60	16.7	55	6	2900	1.5	15	18.5	80	80	310
80CYZ-A-70	60	16.7	70	6	2900	1.2	20.1	22	80	80	333
100CYZ-A-20	100	27.8	20	6	2900	1.8	7.8	11	100	80	258
100CYZ-A-40	100	27.8	40	6	2900	1.8	16.3	22	100	100	455
100CYZ-A-40A	100	27.8	40	6	1450	1.5	18.5	22	100	80	520
100CYZ-A-65	100	27.8	65	6	2900	1.8	27.7	30	100	100	620
100CYZ-A-75	100	19.4	75	6	2900	1.8	24.2	30	100	100	639
150CYZ-A-55	170	47.2	55	5	2900	1.8	39.2	45	150	100	830
150CYZ-A-65	170	47.2	65	5	2900	1.3	46.3	55	150	100	957
150CYZ-A-80	160	44.4	80	5	2900	1.2	53.6	55	150	100	986
200CYZ-A-63	280	77.8	63	5	1450	1.5	73.9	90	200	150	1338
250CYZ-A-50	400	111.1	50	5	1450	2	80	90	250	200	1486
300CYZ-A-50	500	138.9	50	5	1450	2	97.3	110	300	250	1728

V. Installation Drawing and Installation Dimension Table



Pump type	Model name		L	L1	L2	L3	L4	L5	L6	L8	8	11	11	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34	35	35	36	36	37	37	38	38	39	39	40	40	41	41	42	42	43	43	44	44	45	45	46	46	47	47	48	48	49	49	50	50	51	51	52	52	53	53	54	54	55	55	56	56	57	57	58	58	59	59	60	60	61	61	62	62	63	63	64	64	65	65	66	66	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76	77	77	78	78	79	79	80	80	81	81	82	82	83	83	84	84	85	85	86	86	87	87	88	88	89	89	90	90	91	91	92	92	93	93	94	94	95	95	96	96	97	97	98	98	99	99	100	100	101	101	102	102	103	103	104	104	105	105	106	106	107	107	108	108	109	109	110	110	111	111	112	112	113	113	114	114	115	115	116	116	117	117	118	118	119	119	120	120	121	121	122	122	123	123	124	124	125	125	126	126	127	127	128	128	129	129	130	130	131	131	132	132	133	133	134	134	135	135	136	136	137	137	138	138	139	139	140	140	141	141	142	142	143	143	144	144	145	145	146	146	147	147	148	148	149	149	150	150	151	151	152	152	153	153	154	154	155	155	156	156	157	157	158	158	159	159	160	160	161	161	162	162	163	163	164	164	165	165	166	166	167	167	168	168	169	169	170	170	171	171	172	172	173	173	174	174	175	175	176	176	177	177	178	178	179	179	180	180	181	181	182	182	183	183	184	184	185	185	186	186	187	187	188	188	189	189	190	190	191	191	192	192	193	193	194	194	195	195	196	196	197	197	198	198	199	199	200	200	201	201	202	202	203	203	204	204	205	205	206	206	207	207	208	208	209	209	210	210	211	211	212	212	213	213	214	214	215	215	216	216	217	217	218	218	219	219	220	220	221	221	222	222	223	223	224	224	225	225	226	226	227	227	228	228	229	229	230	230	231	231	232	232	233	233	234	234	235	235	236	236	237	237	238	238	239	239	240	240	241	241	242	242	243	243	244	244	245	245	246	246	247	247	248	248	249	249	250	250	251	251	252	252	253	253	254	254	255	255	256	256	257	257	258	258	259	259	260	260	261	261	262	262	263	263	264	264	265	265	266	266	267	267	268	268	269	269	270	270	271	271	272	272	273	273	274	274	275	275	276	276	277	277	278	278	279	279	280	280	281	281	282	282	283	283	284	284	285	285	286	286	287	287	288	288	289	289	290	290	291	291	292	292	293	293	294	294	295	295	296	296	297	297	298	298	299	299	300	300	301	301	302	302	303	303	304	304	305	305	306	306	307	307	308	308	309	309	310	310	311	311	312	312	313	313	314	314	315	315	316	316	317	317	318	318	319	319	320	320	321	321	322	322	323	323	324	324	325	325	326	326	327	327	328	328	329	329	330	330	331	331	332	332	333	333	334	334	335	335	336	336	337	337	338	338	339	339	340	340	341	341	342	342	343	343	344	344	345	345	346	346	347	347	348	348	349	349	350	350	351	351	352	352	353	353	354	354	355	355	356	356	357	357	358	358	359	359	360	360	361	361	362	362	363	363	364	364	365	365	366	366	367	367	368	368	369	369	370	370	371	371	372	372	373	373	374	374	375	375	376	376	377	377	378	378	379	379	380	380	381	381	382	382	383	383	384	384	385	385	386	386	387	387	388	388	389	389	390	390	391	391	392	392	393	393	394	394	395	395	396	396	397	397	398	398	399	399	400	400	401	401	402	402	403	403	404	404	405	405	406	406	407	407	408	408	409	409	410	410	411	411	412	412	413	413	414	414	415	415	416	416	417	417	418	418	419	419	420	420	421	421	422	422	423	423	424	424	425	425	426	426	427	427	428	428	429	429	430	430	431	431	432	432	433	433	434	434	435	435	436	436	437	437	438	438	439	439	440	440	441	441	442	442	443	443	444	444	445	445	446	446	447	447	448	448	449	449	450	450	451	451	452	452	453	453	454	454	455	455	456	456	457	457	458	458	459	459	460	460	461	461	462	462	463	463	464	464	465	465	466	466	467	467	468	468	469	469	470	470	471	471	472	472	473	473	474	474	475	475	476	476	477	477	478	478	479	479	480	480	481	481	482	482	483	483	484	484	485	485	486	486	487	487	488	488	489	489	490	490	491	491	492	492	493	493	494	494	495	495	496	496	497	497	498	498	499	499	500	500	501	501	502	502	503	503	504	504	505	505	506	506	507	507	508	508	509	509	510	510	511	511	512	512	513	513	514	514	515	515	516	516	517	517	518	518	519	519	520	520	521	521	522	522	523	523	524	524	525	525	526	526	527	527	528	528	529	529	530	530	531	531	532	532	533	533	534	534	535	535	536	536	537	537	538	538	539	539	540	540	541	541	542	542	543	543	544	544	545	545	546	546	547	547	548	548	549	549	550	550	551	551	552	552	553	553	554	554	555	555	556	556	557	557	558	558	559	559	560	560	561	561	562	562	563	563	564	564	565	565	566	566	567	567	568	568	569	569	570	570	571	571	572	572	573	573	574	574	575	575	576	576	57
-----------	------------	--	---	----	----	----	----	----	----	----	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Self-Priming Centrifugal Pump Usage Instructions

- 1、 The pump's head should include the vertical distance from the suction surface to the discharge surface, plus the total bend loss on the suction and discharge pipelines. The pump's head should be within the working range of the pump during use.
- 2、 The pump self-suction height refers to the vertical height from the suction surface to the center of the pump suction inlet. In order to make the pump work normally, the installation height of the pump should be less than or equal to the self-suction height in the working performance.
- 3、 Check whether all bolts are tightened. Rotate the pump shaft by hand. There should be no jamming or abnormal noise.
- 4、 Before starting, the rotation direction of the power must be calibrated to conform to the rotation direction indicated by the pump.
- 5、 Before the first start, unscrew the water inlet bolt on the top of the pump body and add two-thirds of the water volume of the pump body. After tightening the bolt, start the work. In the following start, because the check valve is closed, the pump body does not need to fill with water to start normally.
- 6、 When the height of the pump outlet pipe is less than 0.4m, the self-suction performance of the pump will be seriously affected. If the pump needs to be operated under this condition, the pump outlet must be connected with an extended pipe.
- 7、 When the water pump is running, the bearing temperature should not exceed 75℃ and there should be no noise, otherwise the machine should be stopped for inspection.
- 8、 When the water pump is not used for a long time, the main parts should be disassembled and cleaned, coated and assembled, and properly stored.
- 9、 Eroded parts such as impeller, bearing, scaling ring and oil seal should be checked regularly and replaced in time.
- 10、 To adjust the motor pump unit, first install the electric motor or diesel engine (refer to the diesel engine user manual for starting and operation instructions). Position the pump: For direct coupling, align both couplings vertically and horizontally while ensuring their shafts are coaxial, maintaining a 1-2 mm clearance between them. For belt drive systems, align the pulleys and ensure the belt maintains proper tension.
- 11、 The motor must be installed with reliable grounding. Keep it dry when in use. Cover it with a shed when working in the open air to prevent moisture.