

⚠ 在使用本产品前请仔细阅读本手册，本将其放在设备附近以备将来参阅。
Before use, please read this manual carefully and be placed nearby to the equipment for future reference



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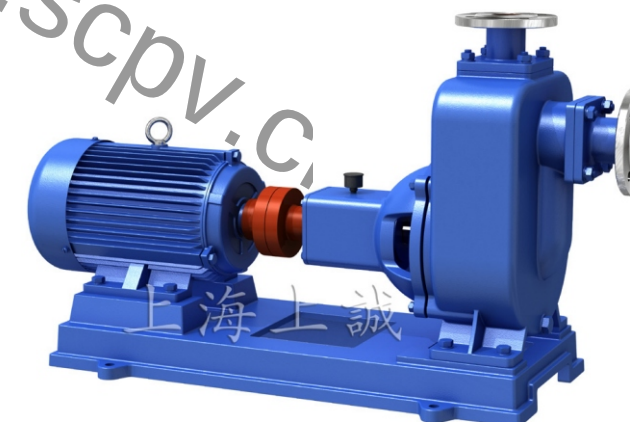
PUMP AND VALVE MANUFACTURING CO.,LTD

ZW型自吸式排污泵
ZW SELF-PRIMING SEWAGE PUMPS

产品说明书 Product specification

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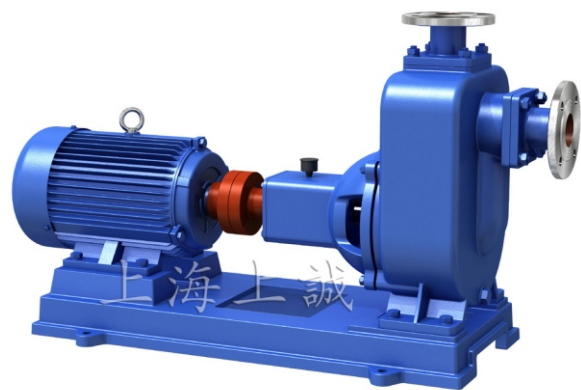
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SHANGHAI SHANGCHENG PUMP AND VALVE MANUFACTURING CO.,LTD

ZW型自吸式排污泵简介 Brief Introduction of ZW Self-Priming Sewage Pumps

ZW型自吸式排污泵 ZW Self-Priming Sewage Pumps



ZW型卧式自吸排污泵
(配卧式电机)机械轴封
ZW Horizontal Self-priming Sewage Pumps
(Fit Horizontal Motor) Mechanical Seal

特点 Features

- ZW系列自吸式无堵塞排污泵是在反复研究国内外同类技术的基础上开发成功的一种结构新颖的产品;
- 该泵与国内同类产品相比,具有结构简单、自吸性能好、排污能力强、高效节能、使用维修方便等特点,在排污泵系列产品中属国内首创。各项技术性能指标居国内领先,达到国际先进水平,具有广阔的应用市场和发展前景。
- ZW serial self-priming and non-block sewage pump is a new structure product which is developed on base of reaping study of domestic and foreign similar technology.
- Pump of this kind has features of simple structure、good self-priming performance、high sewage capability、high efficiency and energy saving、convenient usage and maintenance etc compared with domestic similar product, and it belongs to the first creation in the country at sewage pump series. All technology and performance indexes are on top of the nation, reach the international advanced level, so it has the wide application market and developing future.

用途 Applications

- 该泵集自吸和无堵塞排污于一体,采用轴向回流外混式,并通过泵体、叶轮流道的独特设计,即可象一般自吸清水泵那样不需要安装底阀和灌引水,又可吸排含有大颗粒固体和长纤维杂质液体,可广泛适用于市政排污工程、河塘养殖、轻工、造纸、纺织、食品、化工、电业、纤维、浆料和混合悬浮等化工介质最理想的杂质泵;
- This kind of pump combines self-priming and non-block, adopts axial circumfluence outer-mix type. And through the particular design of case、impeller channel、it not only needn't to be fixed with base valve and poured in water like normal self-priming pump, but also can suck and discharge liquid containing big grain and long fibrin substance. So it is widely used in municipal sewage project、river and pond breeding、light industry、paper making、weaving、foodstuff、chemical industry、power industry、fibrin、slurry and mixed suspension etc chemical medium.

工作条件 Operating Conditions

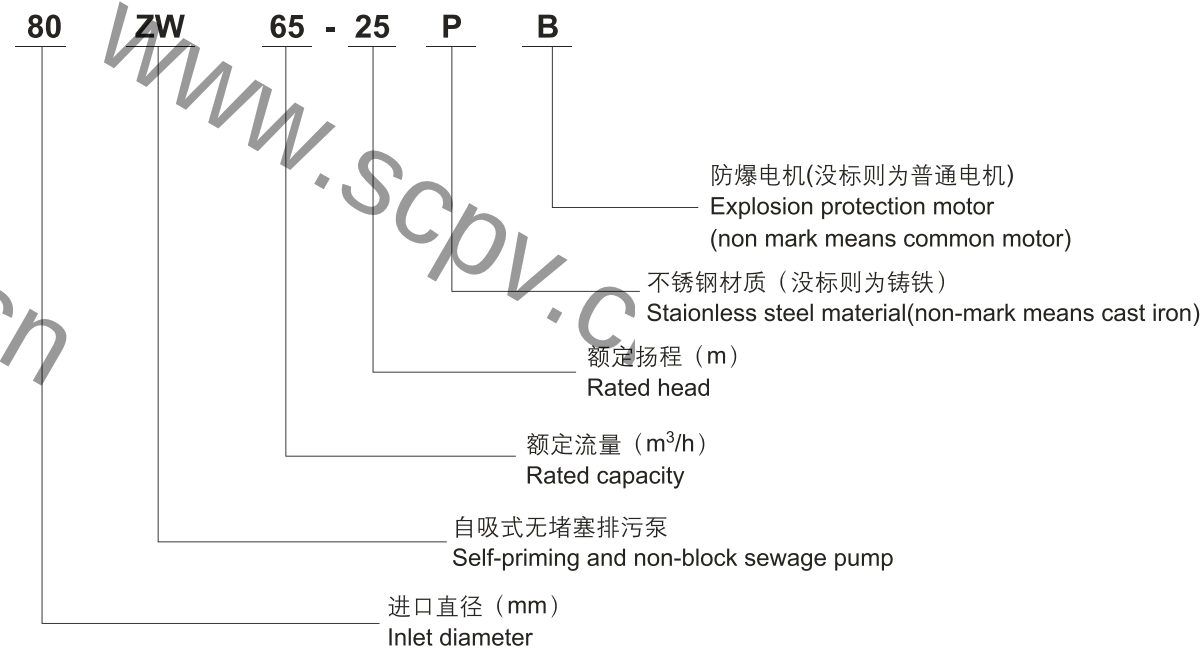
- 环境温度 $\leq 50^{\circ}\text{C}$ 、介质温度 $\leq 80^{\circ}\text{C}$ 、特殊要求可达 200°C ;
- 介质重度不超过 1240kg/m^3 ;
- 自吸高度不能超过规定值 $4.5\sim 5.5$ 米,吸入管长度不超过10米;
- 通过能力悬浮颗粒直径为泵口径的60%,纤维长度为泵口径的5倍。
- Surrounding temperature $\leq 50^{\circ}\text{C}$ 、medium temperature $\leq 80^{\circ}\text{C}$ 、it can reach 200°C under special requirement;
- Medium consistency should not exceed 1240kg/m^3 ;
- Self-priming height should not exceed the stated number of $4.5\sim 5.5\text{m}$, and the suction pipe should not be over 10 meters long;
- It can pass the suspended grain whose diameter is 60 percent of pump caliber, and the fibrin which is 5 times long of pump Caliber.

供货范围 Supply Scope

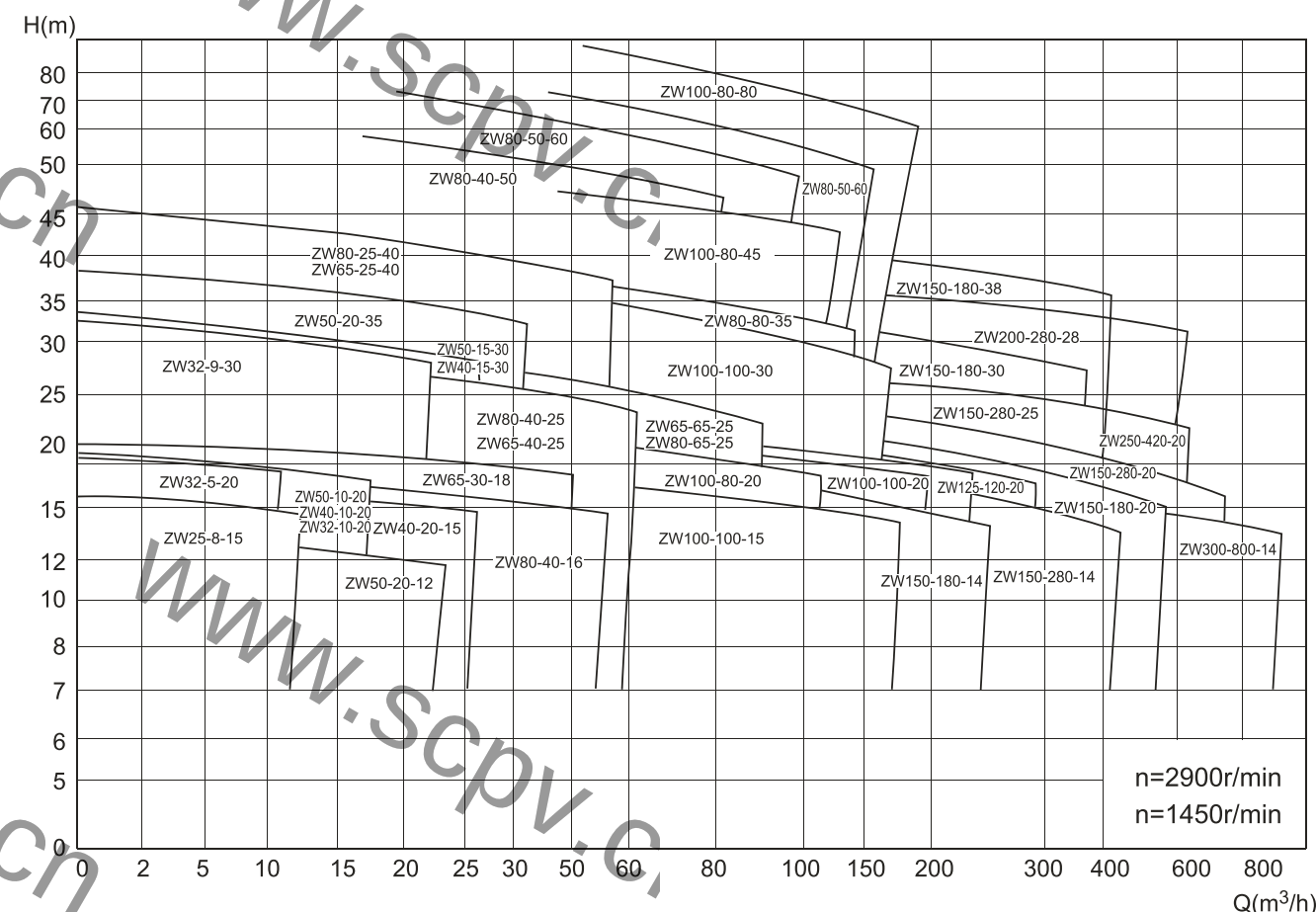
- 水泵、包装及使用说明书。水泵的挠性接头、隔振装置、自动控制装置等可作为附件供货(附件需另计价)。
注:特殊温度、压力、强腐蚀性等情形应事先提出,以便提供更为可靠之产品。
- Pump、packing and specification. Pump flexible joint、vibration-insulation device and automatic control device etc can be provided as accessories(accessories shall be valuated separately).
Note: Cases of special temperature、pressure、high erosion etc should be put forward in advance, so we can provide you more reliable product.

ZW型泵型号意义、型谱图 Designation and Hydraulic Coverage of ZW Pumps

型号意义 Designation



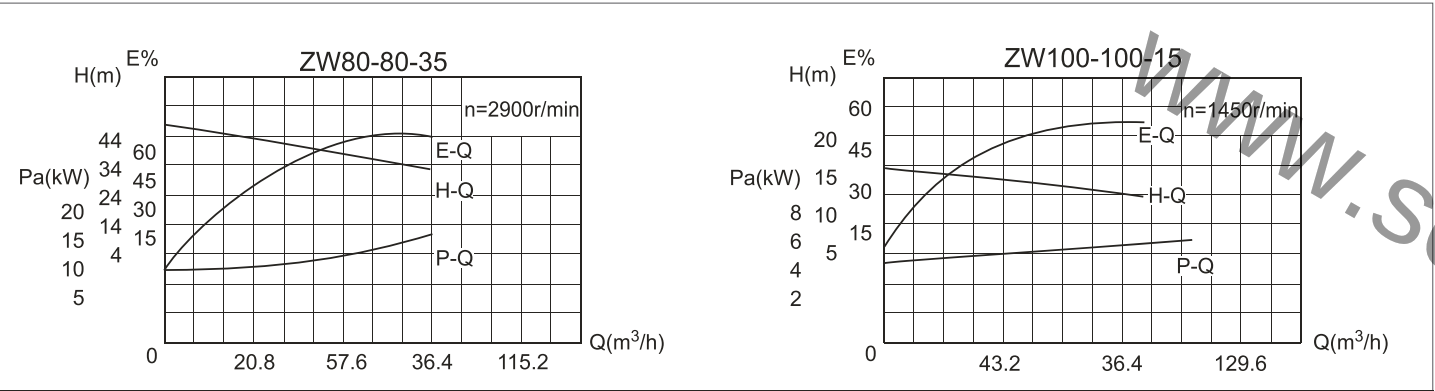
型谱图 Hydraulic Coverage



ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

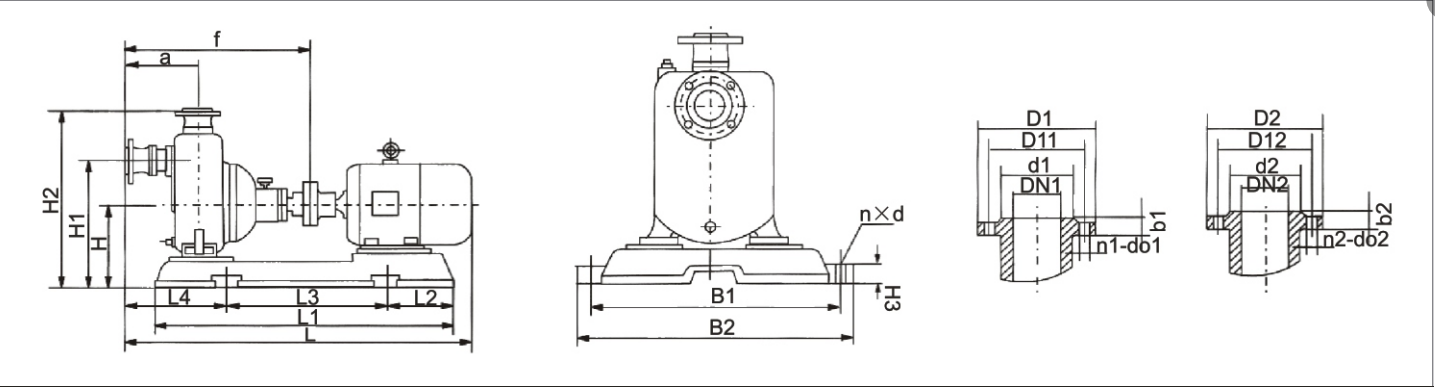
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	 Q Capacity m³/h	Head (m)	 n/min speed	 % Efficiency	 Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height	自吸时间 Self-prim- ing time	泵重量 Pump Weight	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW65-65-25	65	25	2900	52	7.5	3.0	5.5	2	240	65	160	130	110	14	4× φ 14	65	160	130	110	14	4× φ 14
ZW80-40-16	40	16	1450	50	4	3.0	5.0	3	240	80	190	150	125	15	4× φ 18	65	160	130	110	14	4× φ 14
ZW80-40-25	40	25	2900	50	7.5	3.0	5.5	2	200	80	190	150	125	15	4× φ 18	65	160	130	110	14	4× φ 14
ZW80-25-40	25	40	2900	50	7.5	3.0	5.5	2	200	80	190	150	125	15	4× φ 18	65	160	130	110	14	4× φ 14
ZW80-65-25	65	25	2900	52	7.5	3.0	5.5	2	240	80	190	150	125	15	4× φ 18	65	160	130	110	14	4× φ 14

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table

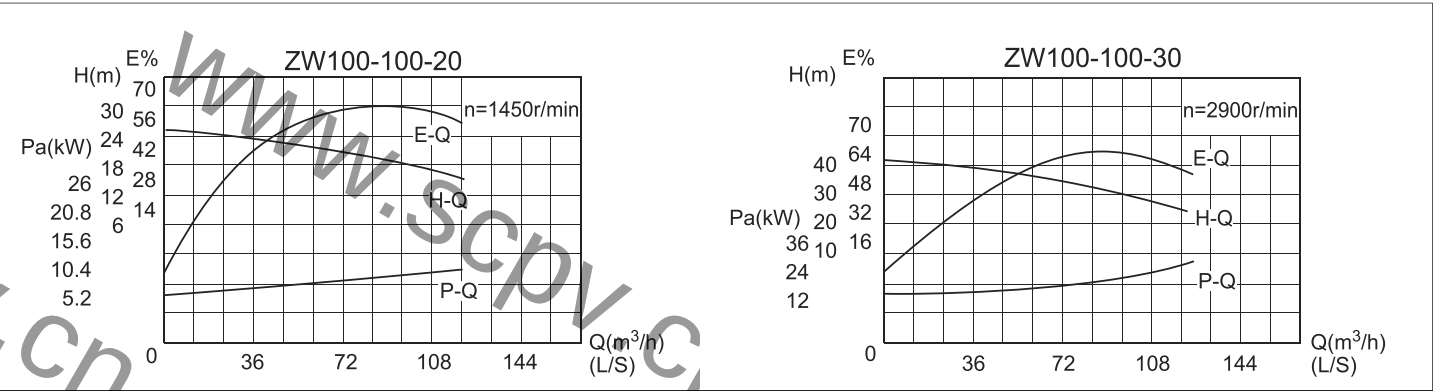


Type	外形及安装尺寸 Outline and installation dimensions													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW65-65-25	1190	840	135	570	380	390	720	350	410	255	465	705	25	4 × φ 18
ZW80-40-16	1120	770	125	520	370	390	720	350	410	250	445	705	25	4 × φ 18
ZW80-40-25	1190	840	135	570	380	390	720	350	410	255	465	705	25	4 × φ 18
ZW80-25-40	1190	840	135	570	380	390	720	350	410	255	465	705	25	4 × φ 18
ZW80-65-25	1190	840	135	570	380	390	720	350	410	255	465	705	25	4 × φ 18

ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

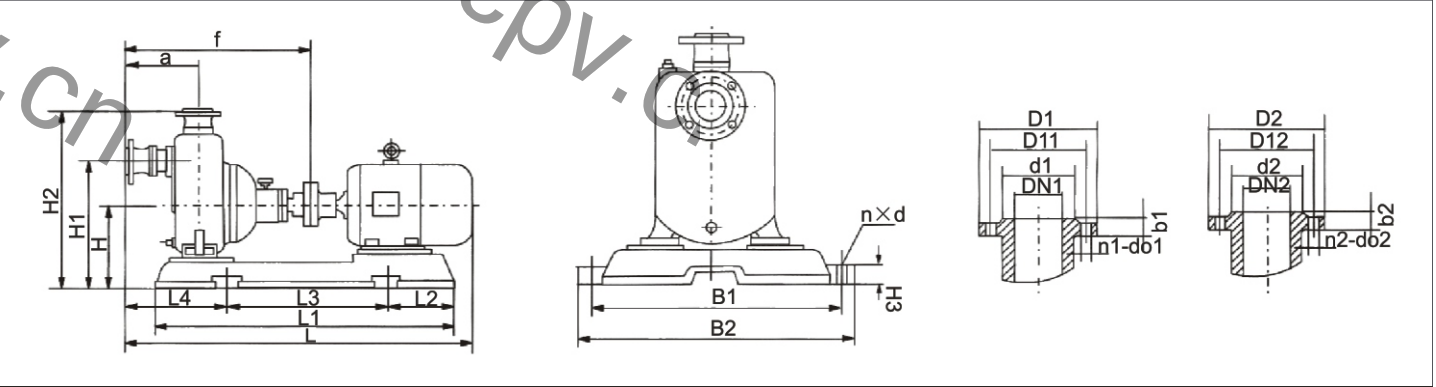
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	 Q Capacity m³/h	Head (m)	 n/min speed	 % Efficiency	 Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height	自吸时间 Self-prim- ing time	泵重量 Pump Weight	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW80-80-35	80	35	2900	45	15	3.0	5.5	3	285	80	190	150	125	15	4 × φ 18	65	160	130	110	14	4 × φ 14
ZW80-40-50	80	40	2900	50	18.5	3.0	5.5	2	293	80	190	150	125	15	4 × φ 18	65	160	130	110	14	4 × φ 14
ZW80-50-60	50	60	2900	55	22	3.0	5.0	3	326	80	190	150	125	15	4 × φ 18	65	160	130	110	14	4 × φ 14
ZW100-100-15	100	15	1450	50	7.5	4.0	5.5	3	300	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18
ZW100-80-20	80	20	1450	53	7.5	4.0	5.5	3	300	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table

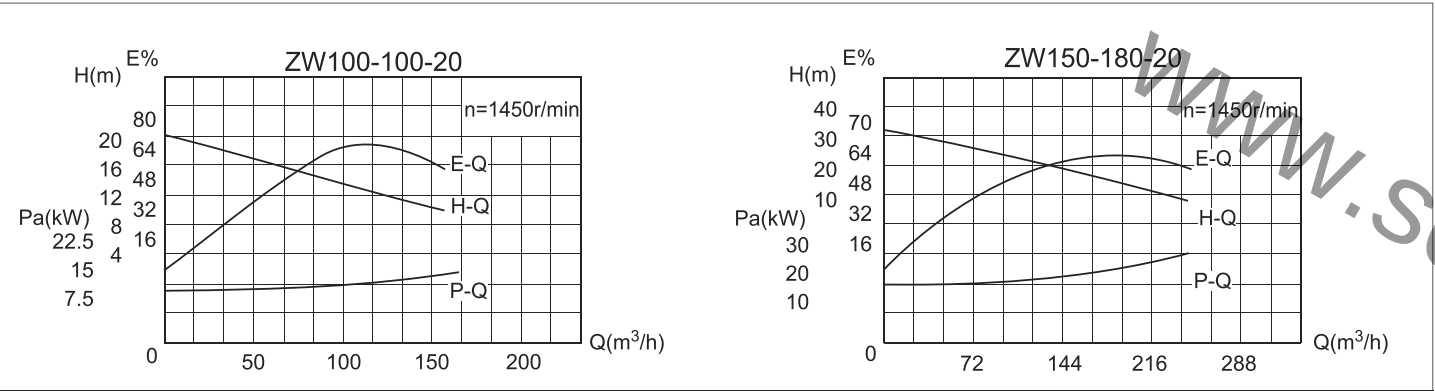


Type	外形及安装尺寸 Outline and installation dimensions													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW80-80-35	1325	1050	170	705	350	390	720	450	500	270	465	725	25	4 × φ 23
ZW80-40-50	1370	1050	170	705	350	390	720	450	500	270	465	725	25	4 × φ 23
ZW80-50-60	1390	1050	170	705	350	390	720	450	500	270	465	725	25	4 × φ 23
ZW100-80-20	1350	1010	170	630	450	430	825	430	480	300	580	820	28	4 × φ 18
ZW100-100-15	1350	1010	170	630	450	430	825	430	480	300	580	820	28	4 × φ 18

ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

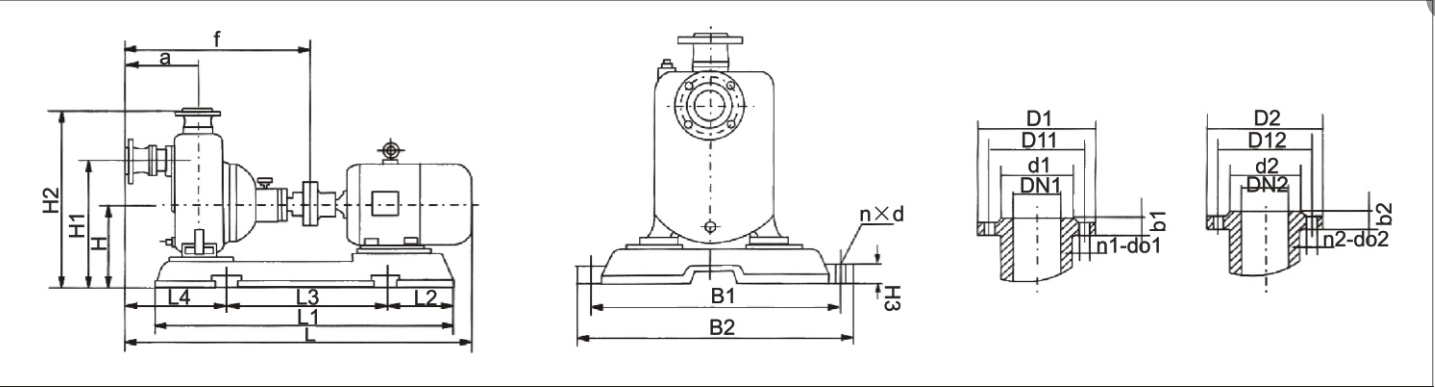
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	 Q Capacity m³/h	Head (m)	 n/min speed	 % Efficiency	 Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height	自吸时间 Self-prim- ing time	泵重量 Pump Weight	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW100-100-20	100	20	1450	53	11	4.0	5.5	3	340	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18
ZW100-100-30	100	30	2900	53	22	4.0	5.5	2	510	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18
ZW100-80-45	80	45	2900	55	30	4.0	5.5	2	560	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18
ZW100-80-60	80	60	2900	53	37	4.0	5.5	2	585	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18
ZW100-80-80	80	80	2900	50	45	4.0	5.5	2	639	100	210	170	145	15	4 × φ 18	80	190	150	125	15	4 × φ 18

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table

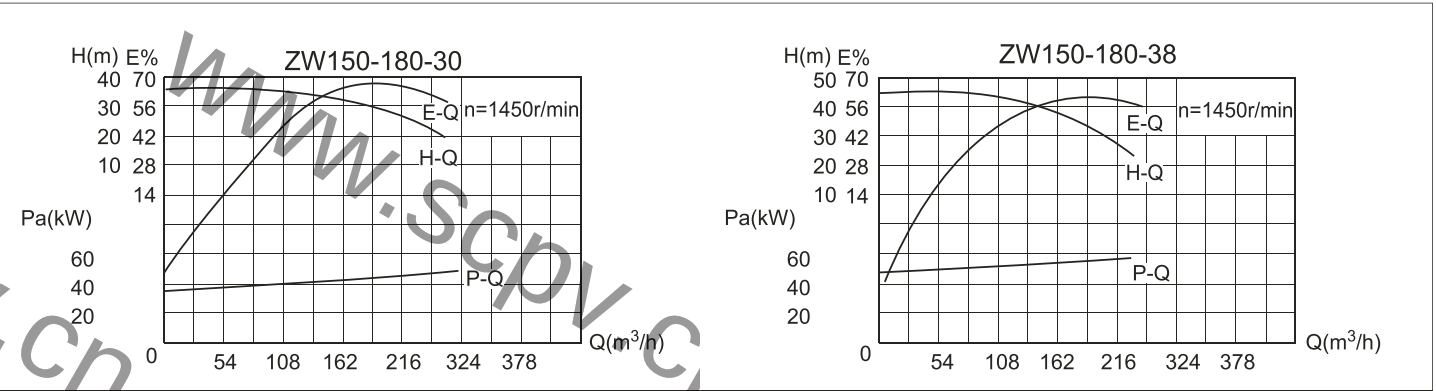


Type	外形及安装尺寸													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW100-100-20	1420	1035	200	630	450	430	825	450	500	300	580	820	25	4 × φ 23
ZW100-100-30	1520	1050	170	705	450	430	825	450	500	300	580	820	25	4 × φ 23
ZW100-80-45	1620	1180	210	785	450	430	825	500	550	325	600	840	28	4 × φ 23
ZW100-80-60	1620	1180	210	785	450	430	825	500	550	325	600	840	28	4 × φ 23
ZW100-80-80	1670	1250	210	785	450	430	825	500	550	325	600	840	28	4 × φ 23

ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

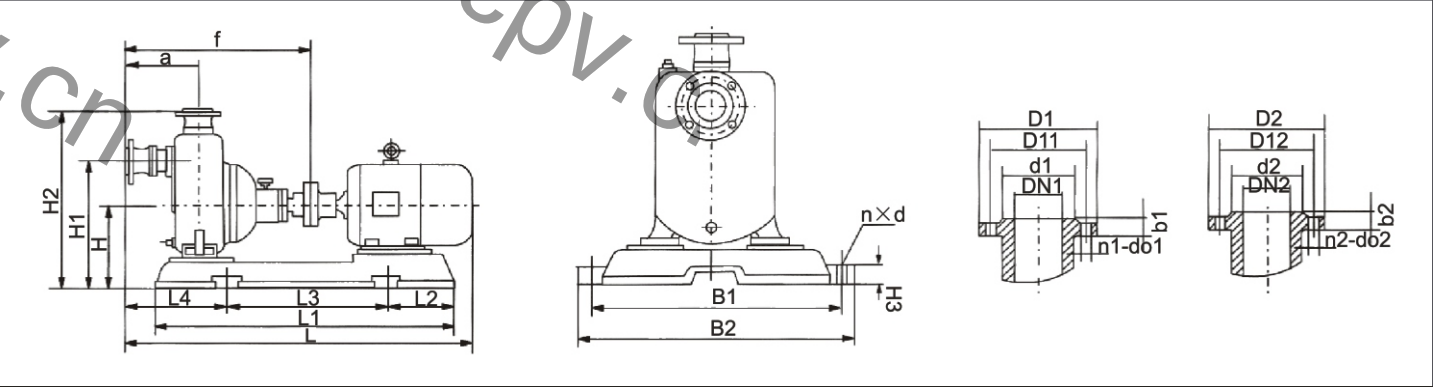
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	 Q Capacity m³/h	Head (m)	 n/min speed	 % Efficiency	 Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height	自吸时间 Self-prim- ing time	泵重量 Pump Weight	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW125-120-20	120	20	1450	55	15	4.5	5.5	2	500	125	240	200	175	20	8 × φ 18	125	240	200	175	20	8 × φ 18
ZW150-180-14	180	14	1450	60	15	5.0	5.5	3.5	500	150	265	225	200	20	8 × φ 18	125	240	200	175	20	8 × φ 18
ZW150-180-20	180	20	1450	60	22	5.0	5.0	3	570	150	265	225	200	20	8 × φ 18	125	240	200	175	20	8 × φ 18
ZW150-180-30	180	30	1450	65	37	5.0	5.0	3	680	150	265	225	200	20	8 × φ 18	125	240	200	175	20	8 × φ 18
ZW150-180-38	180	38	1450	45	55	5.0	6.0	3.5	800	150	265	225	200	20	8 × φ 18	125	240	200	175	20	8 × φ 18

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table

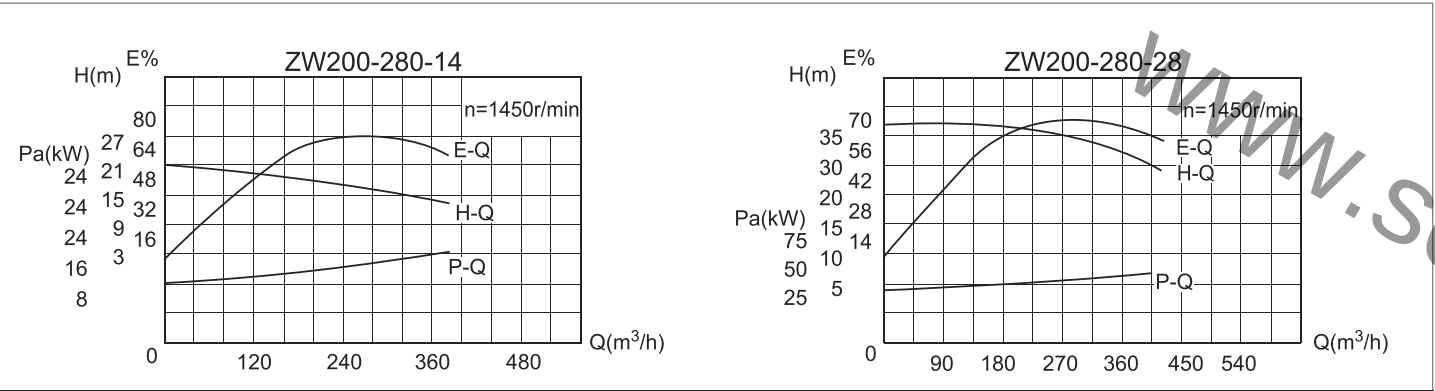


Type	外形及安装尺寸													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW125-120-20	1650	1260	255	750	610	560	990	450	500	325	625	910	30	4 × φ 23
ZW150-180-14	1650	1260	255	750	610	560	990	450	500	325	625	910	30	4 × φ 23
ZW150-180-20	1710	1260	255	750	610	560	990	450	500	325	625	910	30	4 × φ 23
ZW150-180-30	1820	1350	275	800	630	560	990	520	565	350	650	930	30	4 × φ 23
ZW150-180-38	1930	1450	300	850	655	560	990	580	660	350	650	930	30	4 × φ 23

ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

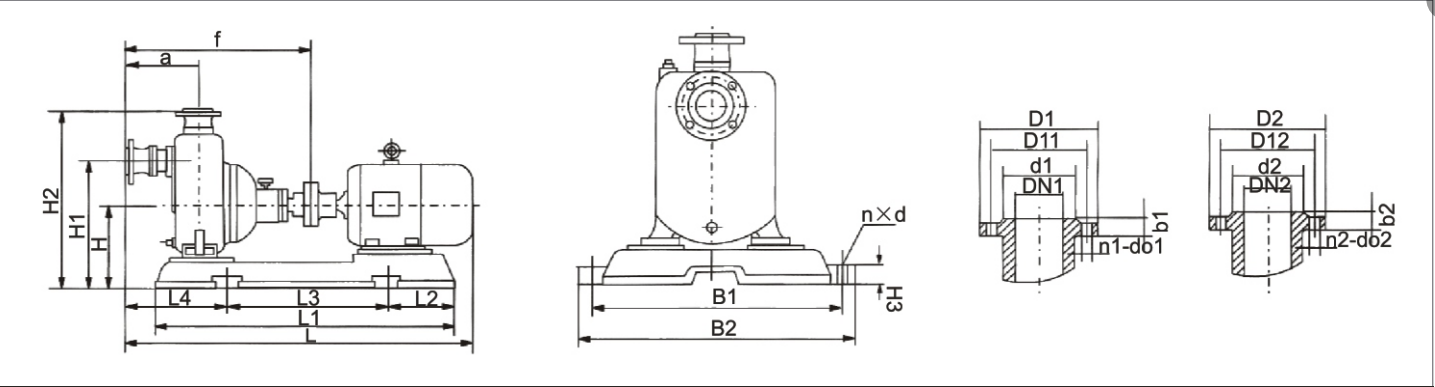
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	Q Capacity m³/h	Head (m)	n/min speed	% Efficiency	Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height m	自吸时间 Self-prim- ing time min/5m	泵重量 Pump Weight kg	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW200-280-14	280	14	1450	65	22	5.0	5.0	3	820	200	320	280	255	22	8 × φ 18	150	265	225	200	20	8 × φ 18
ZW200-280-20	280	20	1450	62	37	5.0	5.0	3	910	200	320	280	255	22	8 × φ 18	150	265	225	200	20	8 × φ 18
ZW200-300-25	300	25	1450	59	45	5.0	5.0	3	948	200	320	280	255	22	8 × φ 18	150	265	225	200	20	8 × φ 18

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table

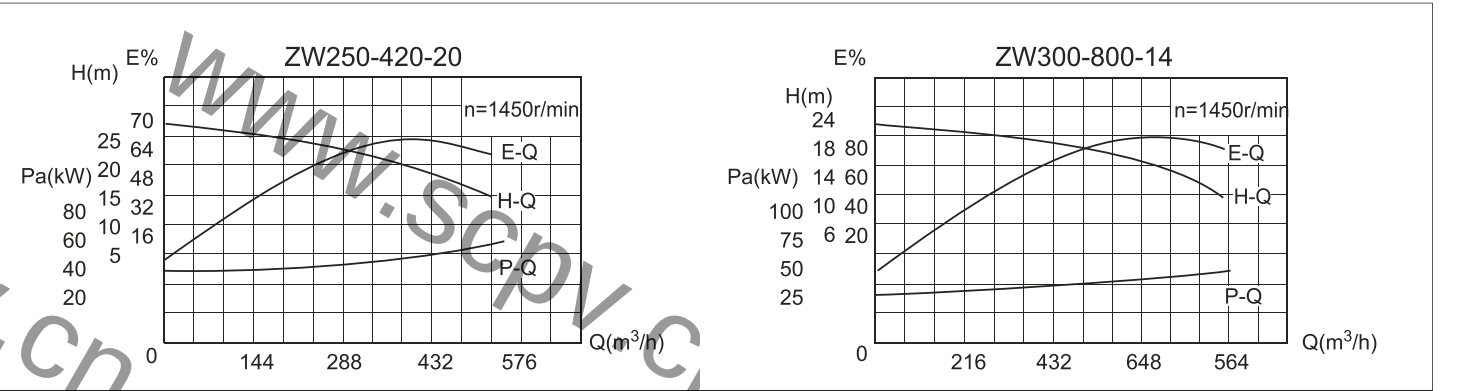


Type	外形及安装尺寸 Outline and installation dimensions													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW200-280-14	1920	1440	300	840	800	720	1205	520	565	365	680	1030	30	4×φ23
ZW200-280-20	2035	1440	300	840	800	720	1205	520	565	365	680	1030	30	4×φ23
ZW200-300-25	2060	1440	300	840	800	720	1205	520	565	365	680	1030	30	4×φ23

ZW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve , Performance Parameters and Installation Dimensions Drawing、Table of ZW Pumps

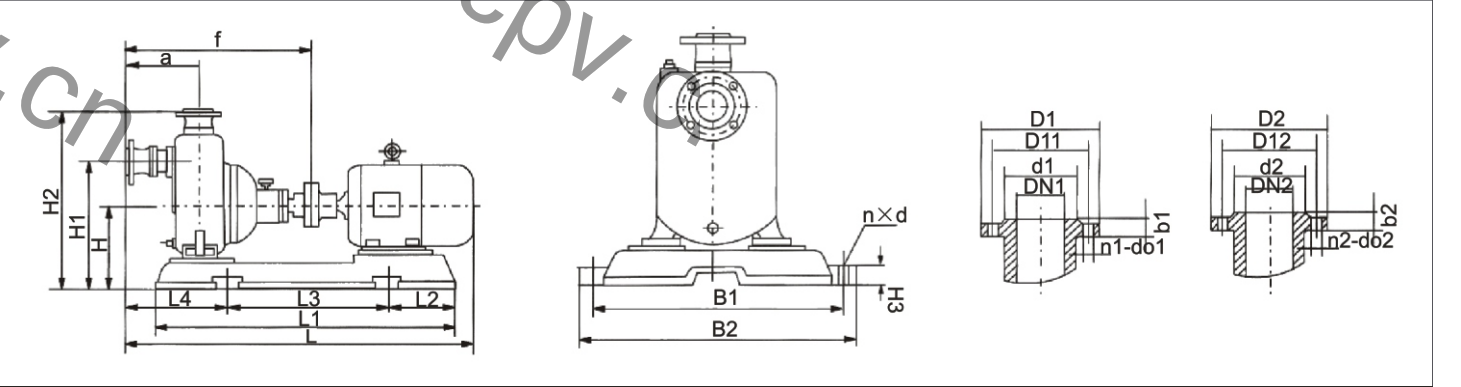
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	Q Capacity m³/h	Head (m)	n/min speed	% Efficiency	Power kW	(NPSH)r (m)	自吸高度 Self-prim- ing Height m	自吸时间 Self-prim- ing time min/5m	泵重量 Pump Weight kg	吸入口法兰尺寸 Suction Flange Dimensions						排出口法兰尺寸 Discharging Flange Dimensions					
泵型号	流量	扬程	转速	效率	电机功率	汽蚀余量	m	min/5m	kg	DN1	D1	D11	d1	b1	n1 × do1	DN2	D2	D12	d2	b2	n1 × do2
ZW200-280-28	280	28	1450	55	55	4.8	5.2	3	1090	200	320	280	255	22	8 × φ 18	150	265	225	200	20	8 × φ 18
ZW250-420-20	420	20	1450	61	55	6.0	4.5	2.5	1150	250	375	335	310	24	12 × φ 18	200	320	280	255	22	8 × φ 18
ZW300-800-14	800	14	1450	65	55	6.0	4.5	2.5	1400	300	375	395	362	24	12 × φ 23	250	375	335	310	24	12 × φ 18

安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table



Type	外形及安装尺寸 Outline and installation dimensions													
泵型号	L	L1	L2	L3	L4	a	f	B1	B2	H	H1	H2	H3	n-d
ZW200-280-28	2145	1540	300	940	800	720	1205	580	660	385	700	1050	30	4× φ 23
ZW250-420-20	2180	1600	300	1000	800	800	1330	610	680	430	800	1200	30	4× φ 23
ZW300-800-14	2580	1880	300	1280	800	1030	1500	610	680	530	900	1350	30	4× φ 23