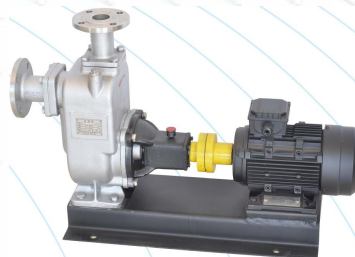


广州凯士比流体技术有限公司

GUANGZHOU KAISHIBI FLUID TECHNOLOGY CO., LTD.



ZWII系列高效节能自吸排污泵
ZWII series high-efficiency energy-saving
Self-priming sewage pump



ZW系列自吸排污泵
ZW series self-priming sewage pump



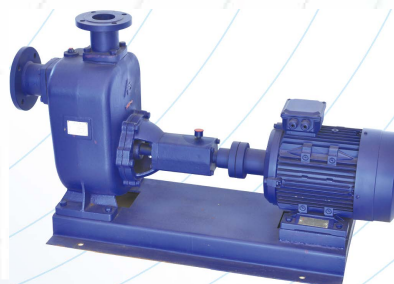
柴油机驱动高效节能自吸排污泵带拖车
Diesel engine driven high efficiency energy-saving
self suction sewage pump with Trailer



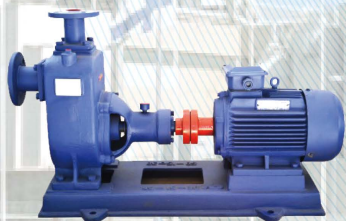
柴油机驱动自吸排污泵
Diesel engine driven self-priming sewage pump



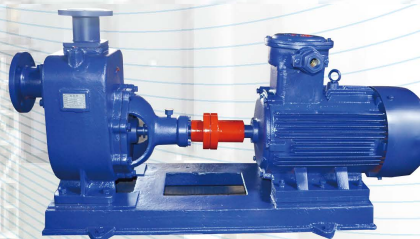
ZWL系列直联式自吸排污泵
ZWL Series Direct-coupling Self-suction
Sewage Pump



ZXII高效节能自吸泵
ZXII high efficiency energy-saving self-priming pump



ZX系列卧式自吸泵
ZX series horizontal type self-priming pump



CYZ系列自吸油泵
CYZ series self-priming oil pump

◆ 概述 General

ZWII系列第二代高效节能自吸式无堵塞排污泵是我公司与浙江工业大学联合设计，在反复研究国内外同类技术的基础上，研制开发成功的一种结构新颖的产品。适用于市政排污工程、河塘养殖、环保、轻工、造纸、纺织、食品、化工、电业、纤维、染料和混合悬浮等化工介质最理想的杂质泵。

ZWII series of second generation of energy efficient Self-priming sewage pump is designed by our company and Zhejiang University of Technology, based on similar repeated research technology at home and abroad on the successful development of a new structure for new products. Application of pump impurities in municipal sewage works, pond aquaculture, environmental protection, light industry, textile, papermaking, food, chemical industry, electric power, fiber, dye and mixed suspension ideal chemical medium.

◆ 产品特点 Product features

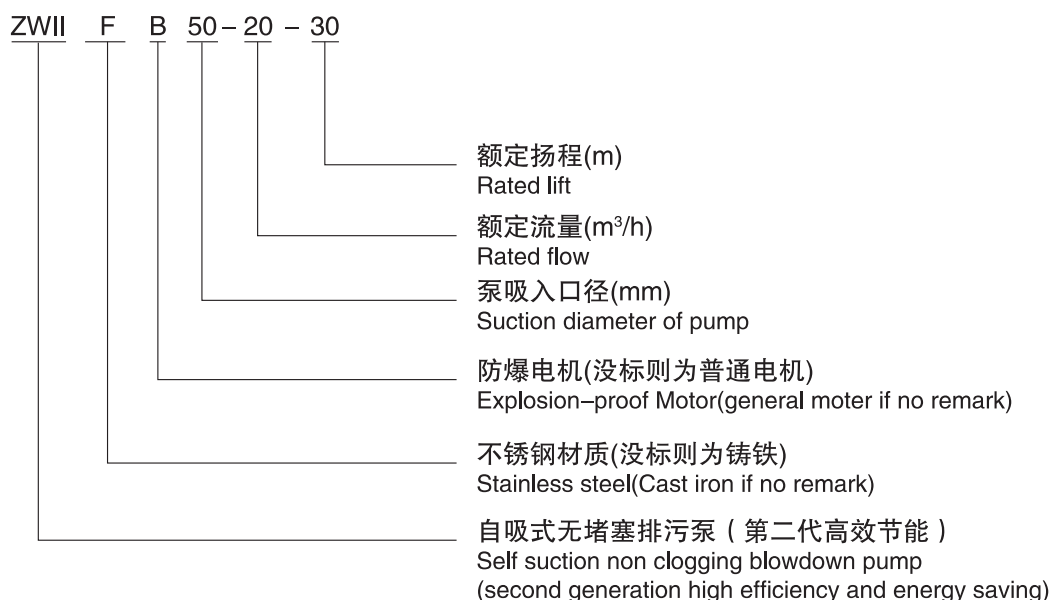
ZWII第二代高效节能自吸式无堵塞排污泵集自吸和无堵塞排污于一体，采用轴向回流外混式，既可像一般自吸式清水泵那样不需要安装底阀和灌引水，又可吸排含有大颗粒固体和长纤维杂质的液体。

泵体和叶轮经过优化重新设计后，效率比老款ZW自吸排污泵普遍提高10%以上，运行稳定，性能可靠，真正达到高效节能的效果。

ZWII second generation of energy efficient Self-priming sewage pump sets and non self priming sewage blockage in one of the axial with outer recirculation, which can be as general self suction water pump that does not need to install the valve and irrigation water, and the suction liquid containing large particles and long fiber solid impurities.

Pump body and impeller after optimization, redesign, efficiency than the old ZW Self-priming sewage pump generally increased by more than 10%, stable operation, reliable performance, and truly achieve high efficiency and energy saving effect.

◆ 型号说明 Type description

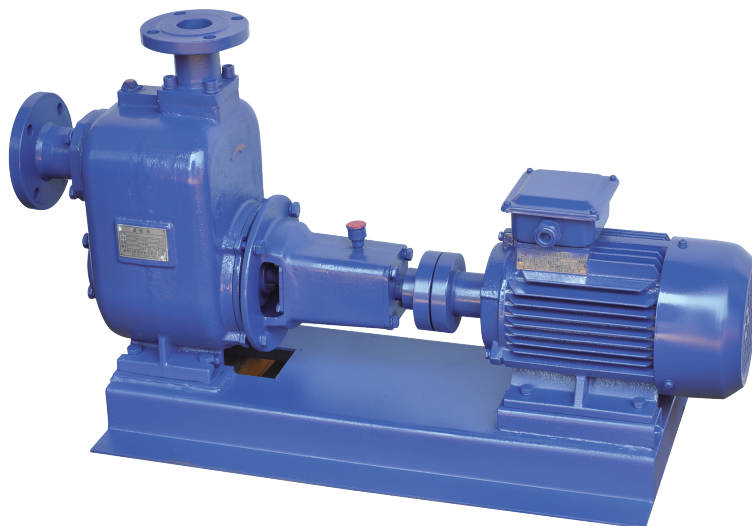


◆ 结构材料及作用范围 Material and function

零件名称 Part name	泵体 Body	密封盖 Seal cover	叶轮 Impeller	进出口接管 Import and export pipe	底座 Base	泵轴 Pump shaft	单向阀 Check valve	轴承座 Bearing stand	机封 Mechanical seal	电机 Moter
材质 Material	HT200 QT400 304 316 316L	HT200 QT400 304 316 316L	HT200 QT400 304 316 316L	HT200 QT400 304 316 316L	钢板折叠	40Cr 304 316L	Q235A 304 316L	HT200	碳化钨 碳化硅	YE2 YE3 YB3 YBX3

◆ 使用范围 Application

- 1、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 （需定做机封外冲洗水冷却）。
 - 2、介质重度不超过 1240Kg/m^3 。
 - 3、介质PH值铸铁材质6-9，不锈钢为2-13。
 - 4、自吸高度不能超过规定值(4-5米)，吸入管总长度为 ≤ 10 米为宜。(水温 20°C ，标准大气压)
 - 5、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。
 - 6、介质温度较高时，自吸高度、吸入管长度需减小。
- 1、the ambient temperature is less than or equal to 50°C , medium temperature are less than 80°C . Special requirements up to 200°C (need to be customized, machine seal, outside rinse water cooling).
 - 2、medium severe not more than 1240Kg/m^3 .
 - 3、medium pH value, cast iron material 6-9, stainless steel is 2-13.
 - 4、self-priming height can not exceed the specified value (4-5 m), the total length of the suction pipe is less than or equal to 10 meters. (water temperature 20°C , standard atmospheric pressure)
 - 5、through the capacity of suspended particles diameter is 60% of the pump caliber, fiber length is 5 times the pump caliber.
 - 6、when the medium temperature is higher, the self suction height and the suction tube length need to be reduced.



◆ 型号与性能参数 Type and performance parameter

性能参数 performance parameter 型 号 Type	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流 量 Flow (m ³ /h)	扬 程 Lift (m)	功 率 Capacity (kw)	转 速 Rotation rate (r/min)	效 率 Efficiency (%)	汽蚀余量 Cavitation allowance (m)	自吸高度 Suction lift (m)	压力控制范围 Pressure control range (MPa)	重 量 Weight (kg)
ZWII25-8-15	25	25	8	15	1.1	2900	40	3.5	4.5	0.10-0.18	80
ZWII32-10-10	32	32	10	10	1.1	2900	40	3.5	4.5	0.07-0.12	80
ZWII32-10-20	32	32	10	20	1.5	2900	48	3.5	4.5	0.15-0.22	85
ZWII32-10-30	32	32	10	30	2.2	2900	48	3.5	5	0.24-0.32	90
ZWII40-15-15	40	32	15	15	1.5	2900	50	3.5	4.5	0.10-0.18	90
ZWII40-15-20	40	32	15	20	2.2	2900	50	3.5	5	0.15-0.22	90
ZWII40-15-30	40	32	15	30	3	2900	50	3.5	5	0.25-0.32	120
ZWII40-15-40	40	32	15	40	4	2900	45	3.5	5	0.35-0.42	150
ZWII50-20-15	50	40	20	15	2.2	2900	50	3.5	4.5	0.10-0.18	95
ZWII50-20-20	50	40	20	20	3	2900	50	3.5	4.5	0.15-0.22	100
ZWII50-20-30	50	40	20	30	4	2900	50	3.5	5	0.25-0.32	145
ZWII50-20-40	50	40	20	40	5.5	2900	50	3.5	4.5	0.35-0.42	170
ZWII50-20-50	50	40	20	50	7.5	2900	50	3.5	5	0.45-0.52	175
ZWII65-30-20	65	65	30	20	4	2900	55	3.5	5	0.15-0.22	160
ZWII65-30-30	65	65	30	30	5.5	2900	55	3.5	4.5	0.25-0.32	190
ZWII65-30-40	65	65	30	40	7.5	2900	50	3.5	5	0.35-0.42	195
ZWII65-30-50	65	65	30	50	11	2900	50	3.5	5	0.45-0.52	260
ZWII80-40-20	80	65	40	20	5.5	2900	60	3.5	5	0.15-0.22	180
ZWII80-40-25	80	65	40	25	5.5	2900	60	3.5	5	0.20-0.27	185
ZWII80-40-30	80	65	40	30	7.5	2900	60	3.5	5	0.25-0.32	190
ZWII80-40-50	80	65	40	50	15	2900	55	3.5	5	0.45-0.52	275
ZWII80-65-25	80	65	65	25	11	2900	60	3.8	5	0.20-0.27	260
ZWII80-65-40	80	65	65	40	15	2900	60	3.8	5	0.35-0.43	275
ZWII80-65-50	80	65	65	50	22	2900	55	3.8	5	0.45-0.52	350
ZWII80-65-60	80	65	65	60	30	2900	55	3.8	5	0.55-0.62	415
ZWII100-80-20	100	80	80	20	11	2900	60	4.5	5	0.15-0.22	280
ZWII100-80-50	100	80	80	50	22	2900	60	4.5	5	0.45-0.52	365
ZWII100-80-60	100	80	80	60	30	2900	60	4.5	5	0.55-0.62	425
ZWII100-80-80	100	80	80	80	37	2900	60	4.5	5	0.75-0.83	460
ZWII100-100-15	100	80	100	15	7.5	2900	65	5.5	4.5	0.10-0.18	230
ZWII100-100-20	100	80	100	20	11	2900	65	5.5	4.5	0.15-0.22	280
ZWII100-100-30	100	80	100	30	15	2900	65	5.5	4.5	0.25-0.32	290
ZWII100-100-50	100	80	100	50	30	2900	60	5.5	4.5	0.45-0.52	450
ZWII125-120-20	125	125	120	20	15	1450	65	5	5	0.15-0.22	450
ZWII150-160-25	150	125	160	25	22	1450	65	5	5	0.20-0.28	530
ZWII150-200-15	150	125	200	15	15	1450	65	5	4.5	0.10-0.18	495
ZWII150-200-20	150	125	200	20	22	1450	65	5	4.5	0.15-0.22	570
ZWII150-200-30	150	125	200	30	30	1450	65	5	5	0.25-0.32	630
ZWII150-200-40	150	125	200	40	45	1450	65	5	4.5	0.35-0.43	930
ZWII150-200-50	150	125	200	50	55	1450	65	5	4.5	0.45-0.53	1020
ZWII200-300-15	200	150	300	15	22	1450	65	5	5	0.10-0.18	595
ZWII200-300-20	200	150	300	20	30	1450	65	5	4.5	0.15-0.23	690
ZWII200-300-25	200	150	300	25	37	1450	65	5	4.5	0.20-0.28	780
ZWII200-300-30	200	150	300	30	45	1450	65	5	5	0.25-0.32	800
ZWII200-300-50	200	150	300	50	90	1450	60	5	4.5	0.45-0.525	1440
ZWII250-400-20	250	200	400	20	45	1450	65	5.5	4	0.15-0.22	1315
ZWII250-600-30	250	200	600	30	90	1450	65	5.5	4	0.25-0.33	1650
ZWII300-800-15	300	250	800	15	75	1450	65	5.5	4	0.10-0.18	1800
ZWII300-1000-20	300	250	1000	20	110	1450	65	5.5	4	0.15-0.55	2450
ZWII350-1200-15	350	300	1200	15	90	1450	65	5.5	4	0.10-0.18	2500

◆ 概述 General

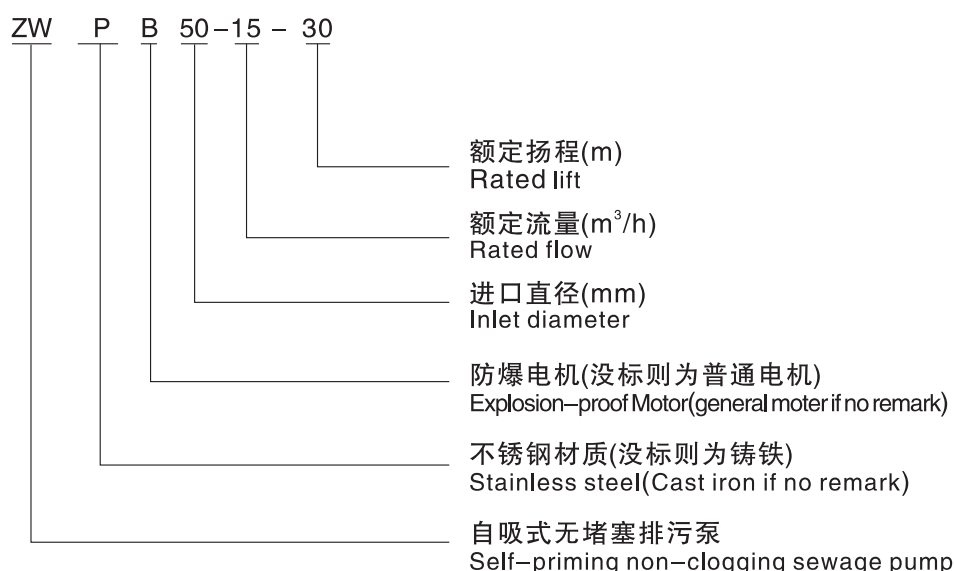
ZW系列自吸式无堵塞排污泵是在反复研究国内外同类技术的基础上开发成功的一种结构新颖的产品。该泵集自吸和无堵塞排污于一体，采用轴向回流外混式，并通过泵体、叶轮流道的独特设计，既可像一般自吸清水泵那样不需要安装底阀和灌引水、又可吸排含有大颗粒固体和长纤维杂质液体，可广泛适用于市政排污工程、河塘养殖、轻工、造纸、纺织、食品、化工、电业、纤维、浆料和混合悬浮等化工介质最理想的杂质泵。

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 series self-priming type non-clogging sewage pump is a new structure product which is developed on base of reaping study of domestic and foreign similar technology. This pump combines the self-priming and non-clogging sewage, adopts the axial counter flow external mixing type, through pump body and the special design of impeller flow channel. The pump as like general self-priming clean water pump without installing the foot valve and irrigating water, and also absorbs the big granular solids and the long textile fiber impurity liquid. It is the most ideal impurity pump that widely suitable for chemical medium as urban sewerage project, river cultivation, light industry, papermaking, spinning, food, chemical industry, electrical industry, fiber, sauce material and mixed aerosol etc..

Compare with the domestic similar product, this pump has the advantage of simple structure, good self-priming performance, strong sewage ability, high energy-efficient, convenient maintenanc etc.. It is a advanced product in the sewage pump series and all technical performance in the lead in domestic. It has reached the international advanced level with broad application market and development prospects.

◆ 型号说明 Type description

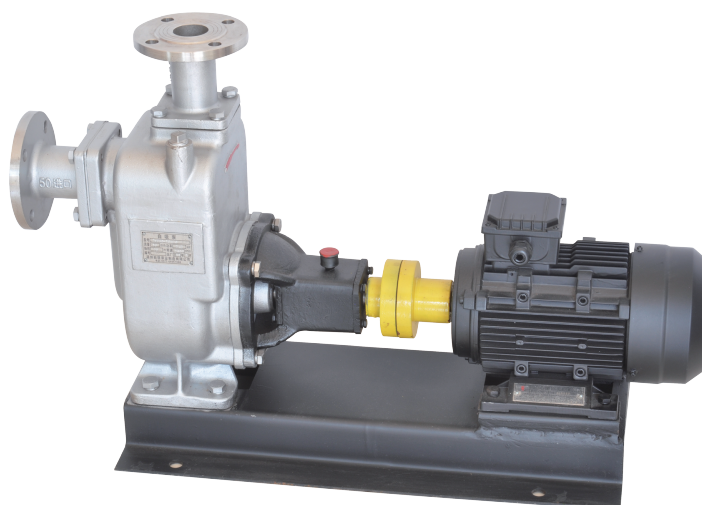


◆ 结构材料及作用范围 Material and function

名 称 Name	泵 体 Body	叶 轮 Impeller	密封盖 Seal cover	底 座 Base	进出接管 In-out-let tube	轴承座 Bearing stand	联轴器 Coupling	轴 Shaft	机械密封 Mechanical seal	电 机 Moter
材 质 Material	HT200 304 316 316L	HT200 304 316 316L	HT200 304 316 316L	HT200 钢板折叠	HT200 304 316 316L	HT200	HT200	40Cr 304 316 316L	碳化硅 碳化钨	YE2 YE3 YB3 YBX3

◆ 使用范围 Application

- 1、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 。
 - 2、介质PH值6-9为铸铁材质，1-14为不锈钢304或316L。
 - 3、介质重度不超过 $1240\text{千克}/\text{m}^3$ 。
 - 4、自吸高度不能超过该泵的规定值，吸入管总长度为 ≤ 10 米为宜。
 - 5、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。
- 1、Environment temperature $\leq 50^{\circ}\text{C}$ ，medium temperature $\leq 80^{\circ}\text{C}$ ，It will reach 200°C if have special requirements.
 - 2、The PH value is 6-9 for cast iron, 1-14 for stainless steel.
 - 3、The weight of medium is no more than $1240\text{kg}/\text{m}^3$
 - 4、The suction lift cannot surpass the set value of pump ,the length of suction pipe is ≤ 10 meter is better.
 - 5、The pipe capacity is 60% of pump diameter,the fiber length is 5 times to pump diameter.



◆ 型号与性能参数 Type and performance parameter

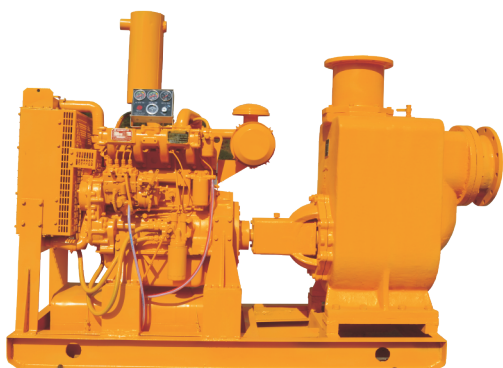
性能参数 performance parameter 型 号 Type	进口口径	出口口径	流 量	扬 程	功 率	转 速	汽蚀余量	效 率	自吸高度	压力控制范围	重 量
	Inlet diameter (mm)	Outlet diameter (mm)	Flow (m³/h)	Lift (m)	Capacity (kw)	Rotation rate (r/min)	Cavitation allowance (m)	Efficiency (%)	Suction lift (m)	Pressure control range (MPa)	Weight (kg)
ZW25-8-15	25	25	8	15	2.2	2900	3.5	35	4.5	0.1-0.18	75
ZW32-5-20	32	32	5	20	2.2	2900	3.5	35	4.5	0.15-0.22	75
ZW32-10-20	32	32	10	20	2.2	2900	3.5	38	4.5	0.15-0.22	75
ZW32-9-30	32	32	9	30	3	2900	3.5	48	5	0.24-0.32	90
ZW 40-10-20	40	32	10	20	2.2	2900	3.5	38	5	0.15-0.22	75
ZW40-20-12	40	32	20	12	2.2	2900	3.5	45	5	0.1-0.18	75
ZW40-15-26	40	32	15	26	3	2900	3.5	48	5	0.24-0.32	90
ZW50-10-20	50	40	10	20	2.2	2900	3.5	38	5	0.15-0.22	75
ZW50-20-15	50	40	20	15	2.2	2900	3.5	42	5	0.1-0.18	75
ZW50-15-27	50	40	15	27	3	2900	3.5	48	5	0.24-0.32	90
ZW50-20-35	50	40	20	35	5.5	2900	3.5	48	5	0.28-0.37	130
ZW65-30-18	65	65	30	18	4	1450	3.5	43	5	0.12-0.20	170
ZW65-25-30	65	65	25	30	5.5	2900	3.8	48	5	0.24-0.32	150
ZW65-25-40	65	65	25	40	7.5	2900	3.8	45	5	0.32-0.42	170
ZW65-40-25	65	65	40	25	7.5	2900	3.8	45	5	0.18-0.27	180
ZW80-40-16	80	65	40	16	4	1450	3.8	54	5	0.1-0.18	170
ZW80-40-25	80	65	40	25	7.5	2900	3.8	45	5	0.18-0.27	180
ZW80-25-40	80	65	25	40	7.5	2900	3.8	45	5	0.32-0.42	180
ZW80-65-25	80	65	65	25	11	2900	3.8	50	5	0.18-0.27	230
ZW80-80-35	80	65	80	35	15	2900	3.8	57	5	0.28-0.37	240
ZW80-40-50	80	65	40	50	18.5	2900	3.8	40	5	0.42-0.52	280
ZW80-50-60	80	65	50	60	22	2900	3.8	42	5	0.53-0.61	300
ZW100-100-15	100	80	100	15	7.5	1450	4.0	62	5	0.1-0.16	270
ZW100-80-20	100	80	80	20	11	1450	4.0	55	5	0.13-0.21	290
ZW100-100-20	100	80	100	20	11	1450	4.0	55	5	0.13-0.21	290
ZW100-100-30	100	80	100	30	22	2900	4.0	51	4.5	0.24-0.32	300
ZW100-100-30	100	80	100	30	22	1450	4.0	45	5	0.24-0.32	500
ZW100-80-45	100	80	80	45	30	2900	4.0	40	4.5	0.38-0.46	420
ZW100-80-60	100	80	80	60	37	2900	4.0	40	5	0.54-0.62	450
ZW100-80-80	100	80	80	80	45	2900	4.0	45	5	0.74-0.81	540
ZW125-120-20	125	125	120	20	15	1450	4.5	50	5	0.13-0.21	355
ZW150-180-14	150	125	180	14	15	1450	5.0	59	5	0.08-0.16	355
ZW150-180-20	150	125	180	20	22	1450	5.0	50	5	0.13-0.21	450
ZW150-180-30	150	125	180	30	37	1450	5.0	55	5	0.24-0.32	620
ZW150-180-40	150	125	180	40	55	1450	5.0	46	5	0.32-0.41	1000
ZW150-180-50	150	125	180	50	75	1450	5.0	45	5	0.45-0.52	1200
ZW200-280-14	200	150	280	14	22	1450	5.0	55	5	0.08-0.16	600
ZW200-280-20	200	150	280	20	37	1450	5.0	56	5	0.13-0.21	750
ZW200-300-25	200	150	300	25	45	1450	5.0	57	5	0.18-0.27	780
ZW200-280-28	200	150	280	28	55	1450	4.8	63	5	0.22-0.3	1000
ZW250-420-20	250	200	420	20	55	1450	6.0	50	4.5	0.13-0.21	1150
ZW300-800-14	300	250	800	14	55	1450	6.0	50	4.5	0.07-0.12	1400
ZW350-1200-14	350	300	1200	14	110	1450	6.0	60	4	0.10-0.15	2600

◆ 概述 General

ZWIIC系列柴油机驱动高效节能自吸排污泵集自吸和无堵塞排污、可移动于一体。既可像一般清水自吸泵那样不需安装底阀，不需灌引水，又可抽吸含有大颗粒固体块和长纤维污物、沉淀物、废矿杂质、粪便处理及一切工程污水物，完全减轻工人的劳动强度，而且安装方便、性能稳定、极少维修。配合柴油机的可移动性，不需引用电线的原因提高了该泵的灵活性。该泵安装的拖车上可作为工程排涝、市政排涝救急车使用。

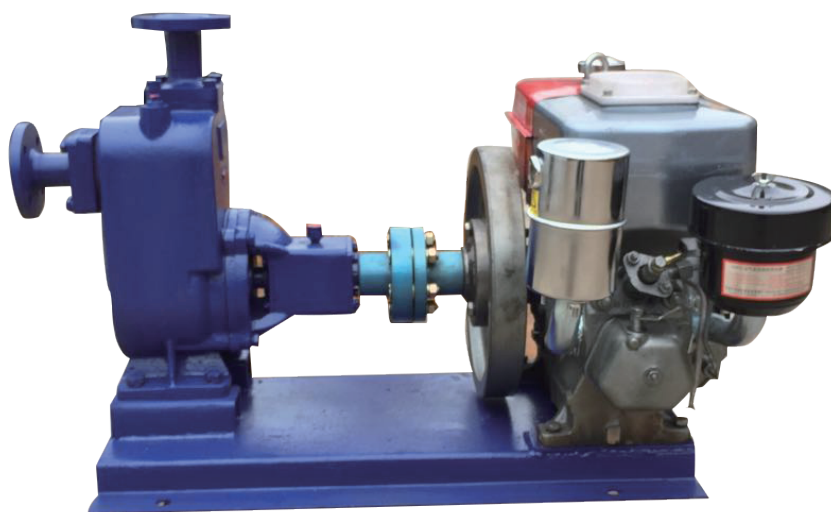
ZWIIC series diesel engine drive high efficiency energy saving Self-priming sewage pump, non-clogging sewage and removable. It likes as general clean water self-priming pump without installing foot valve and irrigating water. The pump absorbs big granular solids, long textile fiber impurity liquid, settling, abandoned mine impurity, the feces disposal and all project sewage that reduces worker's load completely. It has advantage of installing conveniently, stable performance, low repair rate. Coordinates with the removable of diesel engine which improves the pump flexibility because of without electric wire. This pump installs on the trailer suitable for project emergency, urban drainage emergency etc.

◆ 型号说明 Type description



◆ 使用范围 Application

- 1、ZWIIC柴油机驱动高效节能自吸排污泵工作环境温度 $\leq 50^{\circ}\text{C}$ ，介质温度 $\leq 80^{\circ}\text{C}$ 。
 - 2、ZWIIC柴油机驱动高效节能自吸排污泵使用介质PH值：铸铁材质为6-9，不锈钢材质为1-14。
 - 3、ZWIIC柴油机驱动高效节能自吸排污泵使用介质中杂质总重量不超过介质总重量的15%，介质比重不超过1240千克/立方米。
 - 4、ZWIIC柴油机驱动高效节能自吸排污泵使用介质通过颗粒最大直径泵口径的60%，纤维长度为泵口径的5倍。
 - 5、ZWIIC柴油机驱动高效节能自吸排污泵自吸高度不能超过该泵的规定值，吸入管总长度为 ≤ 10 米为宜。
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- 1、The working environment of ZWIIC diesel engine driven high efficiency energy-saving self suction sewage pump sewage pump is $\leq 50^{\circ}\text{C}$, medium environment $\leq 80^{\circ}\text{C}$
 - 2、The PH value is 6-9 for cast iron, 1-14 for stainless steel
 - 3、The total weight of impurity in medium does not surpass 15% of the medium total weight, the medium proportion does not surpass 1240 kg/m³.
 - 4、The granular in working medium does not in excess 60% of diameter pump, the fiber length is 5 times to pump diameter.
 - 5、The suction lift cannot surpass the set value of pump, the length of suction pipe is ≤ 10 meter is better.



◆ 型号与性能参数 Type and performance parameter

性能参数 performance parameter 型 号 Type	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流 量 Flow (m ³ /h)	扬 程 Lift (m)	功 率 Capacity (kw)	转 速 Rotation rate (r/min)	效 率 Efficiency (%)	自吸高度 Suction lift (m)	压力控制范围 Pressure control range (MPa)
ZWIIC25-8-15	25	25	8	15	1.1	2900	40	4.5	0.10-0.18
ZWIIC32-10-10	32	32	10	10	1.1	2900	40	4.5	0.07-0.12
ZWIIC32-10-20	32	32	10	20	1.5	2900	48	4.5	0.15-0.22
ZWIIC32-10-30	32	32	10	30	2.2	2900	48	5	0.24-0.32
ZWIIC40-15-15	40	32	15	15	1.5	2900	50	4.5	0.10-0.18
ZWIIC40-15-20	40	32	15	20	2.2	2900	50	5	0.15-0.22
ZWIIC40-15-30	40	32	15	30	3	2900	50	5	0.25-0.32
ZWIIC40-15-40	40	32	15	40	4	2900	45	5	0.35-0.42
ZWIIC50-20-15	50	40	20	15	2.2	2900	50	4.5	0.10-0.18
ZWIIC50-20-20	50	40	20	20	3	2900	50	4.5	0.15-0.22
ZWIIC50-20-30	50	40	20	30	4	2900	50	5	0.25-0.32
ZWIIC50-20-40	50	40	20	40	5.5	2900	50	4.5	0.35-0.42
ZWIIC50-20-50	50	40	20	50	7.5	2900	50	5	0.45-0.52
ZWIIC65-30-20	65	65	30	20	4	2900	55	5	0.15-0.22
ZWIIC65-30-30	65	65	30	30	5.5	2900	55	4.5	0.25-0.32
ZWIIC65-30-40	65	65	30	40	7.5	2900	50	5	0.35-0.42
ZWIIC65-30-50	65	65	30	50	11	2900	50	5	0.45-0.52
ZWIIC80-40-20	80	65	40	20	5.5	2900	60	5	0.15-0.22
ZWIIC80-40-25	80	65	40	25	5.5	2900	60	5	0.20-0.27
ZWIIC80-40-30	80	65	40	30	7.5	2900	60	5	0.25-0.32
ZWIIC80-40-50	80	65	40	50	15	2900	55	5	0.45-0.52
ZWIIC80-65-25	80	65	65	25	11	2900	60	5	0.20-0.27
ZWIIC80-65-40	80	65	65	40	15	2900	60	5	0.35-0.43
ZWIIC80-65-50	80	65	65	50	22	2900	55	5	0.45-0.52
ZWIIC80-65-60	80	65	65	60	30	2900	55	5	0.55-0.62
ZWIIC100-80-20	100	80	80	20	11	2900	60	5	0.15-0.22
ZWIIC100-80-50	100	80	80	50	22	2900	60	5	0.45-0.52
ZWIIC100-80-60	100	80	80	60	30	2900	60	5	0.55-0.62
ZWIIC100-80-80	100	80	80	80	37	2900	60	5	0.75-0.83
ZWIIC100-100-15	100	80	100	15	7.5	2900	65	4.5	0.10-0.18
ZWIIC100-100-20	100	80	100	20	11	2900	65	4.5	0.15-0.22
ZWIIC100-100-30	100	80	100	30	15	2900	65	4.5	0.25-0.32
ZWIIC100-100-50	100	80	100	50	30	2900	60	4.5	0.45-0.52
ZWIIC125-120-20	125	125	120	20	15	1450	65	5	0.15-0.22
ZWIIC150-160-25	150	125	160	25	22	1450	65	5	0.20-0.28
ZWIIC150-200-15	150	125	200	15	15	1450	65	4.5	0.10-0.18
ZWIIC150-200-20	150	125	200	20	22	1450	65	4.5	0.15-0.22
ZWIIC150-200-30	150	125	200	30	30	1450	65	5	0.25-0.32
ZWIIC150-200-40	150	125	200	40	45	1450	65	4.5	0.35-0.43
ZWIIC150-200-50	150	125	200	50	55	1450	65	4.5	0.45-0.53
ZWIIC200-300-15	200	150	300	15	22	1450	65	5	0.10-0.18
ZWIIC200-300-20	200	150	300	20	30	1450	65	4.5	0.15-0.23
ZWIIC200-300-25	200	150	300	25	37	1450	65	4.5	0.20-0.28
ZWIIC200-300-30	200	150	300	30	45	1450	65	5	0.25-0.32
ZWIIC200-300-50	200	150	300	50	90	1450	60	4.5	0.45-0.525
ZWIIC250-400-20	250	200	400	20	45	1450	65	4	0.15-0.22
ZWIIC250-600-30	250	200	600	30	90	1450	65	4	0.25-0.33
ZWIIC300-800-15	300	250	800	15	75	1450	65	4	0.10-0.18
ZWIIC300-1000-20	300	250	1000	20	110	1450	65	4	0.15-0.55
ZWIIC350-1200-15	350	300	1200	15	90	1450	65	4	0.10-0.18

◆ 概述 General

ZXII系列第二代高效节能自吸泵是我公司与浙江机电设计研究院联合设计，在反复研究国内外同类技术的基础上，研制开发成功的一种结构新颖的产品。泵性能达到国家行业标准JB/T7256要求。具有结构紧凑、操作方便、运行平稳、维护容易、效率高、寿命长，并具有较强的自吸能力等优点。管路中不需安装底阀，工作前只需保证泵体内储有定量引液即可。因此简化了管路系统，又改善了劳动条件。(1)适用于城市环保、建筑、消防、化工、制药、染料、印染、酿造、电力、电镀、造纸、工矿冲洗、设备冷却等。(2)装上摇臂式喷头，将水冲到空中后，散成细小雨滴进行喷雾。是农场、苗圃、果园、茶园的良好机具。(3)适用于清水、海水及带有酸、碱度的化工介质液体和带有一般糊状的浆料(介质粘度 ≤ 100 厘泊、含固量可达30%以下)。(4)可和任何型号、规格的压滤机配套使用，将浆料送给压滤机进行压滤的最理想配套泵种。

ZXII series of second generation high efficiency energy-saving self-priming pump is our company and Zhejiang mechanical and Electrical Design Research Institute joint design, in the repeated study of domestic and foreign similar technology foundation A new type of product has been developed and developed successfully. Pump performance up to the national industry standard JB/T7256 requirements. The utility model has the advantages of compact structure, convenient operation and transportation The utility model has the advantages of smooth and easy maintenance, high efficiency, long service life, strong self suction capability, etc.. Do not need to install the valve in the pipeline, only to ensure the pump before work It can be stored with quantitative liquid delivery. Therefore, the pipeline system is simplified and the working conditions are improved. (1) suitable for urban environmental protection, building, fire, chemical, pharmaceutical, dye, printing and dyeing, brewing, electricity, electroplating, paper making, industrial and mining washing, equipment Cooling, etc.. (2) with rocker arm sprinkler, the water rushed into the sky, scattered into small raindrops for spraying. It is a good tool for farms, nurseries, orchards and tea plantations. (3) application of chemical liquid in water, seawater and with acid, alkalinity and general mushy slurry (medium viscosity and solid content is less than or equal to 100 centipoise Up to 30% or less. (4) It can be used in conjunction with any filter press of any type or size, and will be the ideal type of pump for the press filter.

◆ 型号说明 Type description

ZXII F B 65-18-20

ZXII

F

B

65-18-20

额定扬程(m)
Rated lift

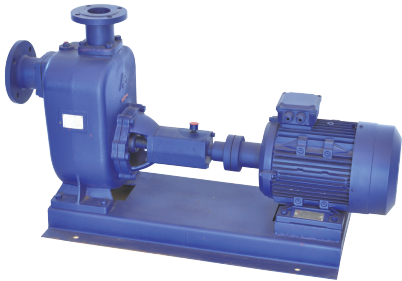
额定流量(m³/h)
Rated flow

泵吸入口径(mm)
Suction diameter of pump

防爆电机(没标则为普通电机)
Explosion-proof Motor(general moter if no remark)

不锈钢材质(没标则为铸铁)
Stainless steel(Cast iron if no remark)

第二代高效节能自吸泵
Second generation high efficiency energy saving self-priming pump



◆ 型号与性能参数 Type and performance parameter

性能参数 performance parameter	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流量 Flow (m ³ /h)	扬程 Lift (m)	功率 Capacity (kw)	转速 Rotation rate (r/min)	效率 Efficiency (%)	汽蚀余量 Cavitation allowance (m)	自吸高度 Suction lift (m)	压力控制范围 Pressure control range (MPa)
型 号 Type										
ZXII32-3.2-20	32	25	3.2	20	0.75	2900	33	2.5	4.5	0.15-0.22
ZXII40-6.3-20	40	32	6.3	20	1.5	2900	47	2.5	4.5	0.15-0.22
ZXII40-6.3-32	40	32	6.3	32	2.2	2900	41	2.5	5	0.25-0.33
ZXII50-12.5-20	50	40	12.5	20	1.5	2900	57	2.8	4.5	0.15-0.22
ZXII50-12.5-32	50	40	12.5	32	3	2900	52	2.8	5	0.25-0.33
ZXII50-12.5-40	50	40	12.5	40	4	2900	49	2.8	5	0.35-0.42
ZXII65-18-20	65	50	18	20	2.2	2900	62	3.2	5	0.15-0.22
ZXII65-25-32	65	50	25	32	5.5	2900	61	3.2	5	0.25-0.33
ZXII65-25-50	65	50	25	50	7.5	2900	56	3.2	5	0.45-0.52
ZXII80-50-20	80	65	50	20	5.5	2900	71	3.8	5	0.15-0.22
ZXII80-50-32	80	65	50	32	7.5	2900	69	3.8	5	0.25-0.35
ZXII80-50-50	80	65	50	50	15	2900	65	3.8	5	0.45-0.52
ZXII100-100-20	100	80	100	20	11	2900	74	5.5	5	0.15-0.22
ZXII100-100-32	100	80	100	32	15	2900	74	5.5	5	0.25-0.34
ZXII100-100-80	100	80	100	80	45	2900	68	5.5	5	0.73-0.83
ZXII150-200-50	150	125	200	50	55	2900	70	7	5	0.45-0.53

◆ 概述 General

ZWL系列直联式自吸无堵塞排污泵采用卧式直联结构，机泵一体，组件同心度高、运行时平稳、无振动、低噪音，能延长轴承的使用寿命，外型美观，占地面积少，改善使用环境、可广泛适用于市政排污工程，池塘养殖、轻工、造纸、纺织、食品、化工、电业、纤维、浆料和混合悬浮物等化工介质最理想的杂质泵。

ZWL series direct-coupling self-suction without block sewage pump, following horizontal type direct coupling structure, the motor and the pump into one body, high concentric rate for the compnents, steady running, no vibration, low noise, prolong the usage lifetime for the bearing, nice appearance, small standing space, and improving working condition which is the residue pump for the chemical medium, widely applicable to municipal sewage engineerings, pool farming, light industry, paper making, textile, food, chemical, electric industry, fiber, pulp, mixture suspension, etc

◆ 型号说明 Type description



◆ 使用范围 Application

- 1、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 。
 - 2、介质PH值6-9为铸铁材质，1-14为不锈钢304或316L。
 - 3、介质重度不超过 1240kg/m^3 。
 - 4、自吸高度不能超过该泵的规定值，吸入管总长度为 ≤ 10 米为宜。
 - 5、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。
- 1、Environment temperature $\leq 50^{\circ}\text{C}$ ，medium temperature $\leq 80^{\circ}\text{C}$ ，It will reach 200°C if have special requirements.
 - 2、The PH value is 6-9 for cast iron, 1-14 for stainless steel.
 - 3、The weight of medium is no more than 1240kg/m^3
 - 4、The suction lift cannot surpass the set value of pump ,the length of suction pipe is ≤ 10 meter is better.
 - 5、The pipe capacity is 60% of pump diameter,the fiber length is 5 times to pump diameter.

◆ 型号与性能参数 Type and performance parameter

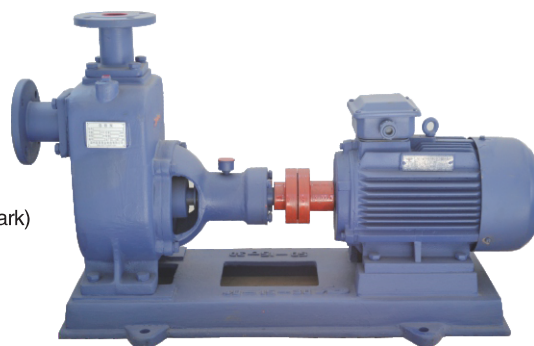
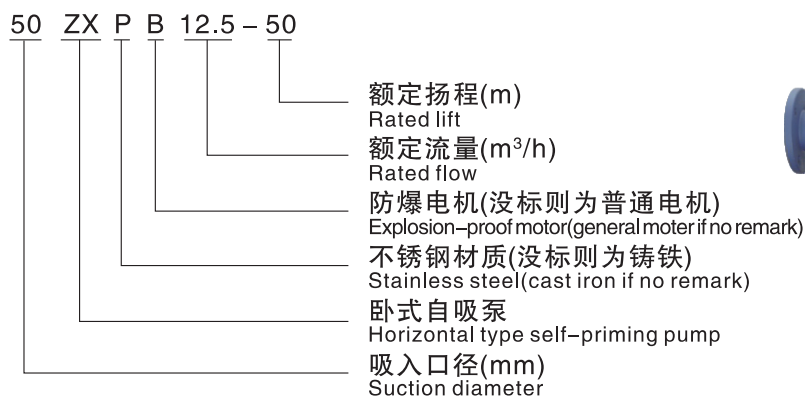
性能参数 performance parameter 型 号 Type	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流 量 Flow (m ³ /h)	扬 程 Lift (m)	功 率 Capacity (kw)	转 速 Rotation rate (r/min)	效 率 Efficiency (%)	汽蚀余量 Cavitation allowance (m)	自吸高度 Suction lift (m)	压力控制范围 Pressure control range (MPa)	重 量 Weight (kg)
ZWL25-8-15	25	25	8	15	2.2	2900	35	3.5	4.5	0.1-0.18	70
ZWL32-5-20	32	32	5	20	2.2	2900	35	3.5	4.5	0.15-0.22	70
ZWL32-10-20	32	32	10	20	2.2	2900	38	3.5	4.5	0.15-0.22	70
ZWL32-9-30	32	32	9	30	3	2900	48	3.5	5	0.24-0.32	95
ZWL40-10-20	40	32	10	20	2.2	2900	38	3.5	5	0.15-0.22	70
ZWL40-20-12	40	32	20	12	2.2	2900	45	3.5	5	0.1-0.18	70
ZWL40-15-26	40	32	15	26	3	2900	48	3.5	5	0.24-0.32	95
ZWL50-10-20	50	40	10	20	2.2	2900	38	3.5	5	0.15-0.22	70
ZWL50-20-15	50	40	20	15	2.2	2900	42	3.5	5	0.1-0.18	70
ZWL50-15-27	50	40	15	27	3	2900	48	3.5	5	0.24-0.32	95
ZWL50-20-35	50	40	20	35	5.5	2900	48	3.5	5	0.28-0.37	125
ZWL65-30-18	65	65	30	18	4	1450	43	3.5	5	0.12-0.20	165
ZWL65-25-30	65	65	25	30	5.5	2900	48	3.8	5	0.24-0.32	145
ZWL65-25-40	65	65	25	40	7.5	2900	45	3.8	5	0.32-0.42	165
ZWL65-40-25	65	65	40	25	7.5	2900	45	3.8	5	0.18-0.27	175
ZWL80-40-16	80	65	40	16	4	1450	54	3.8	5	0.1-0.18	165
ZWL80-40-25	80	65	40	25	7.5	2900	45	3.8	5	0.18-0.27	175
ZWL80-25-40	80	65	25	40	7.5	2900	45	3.8	5	0.32-0.42	175
ZWL80-65-25	80	65	65	25	11	2900	50	3.8	5	0.18-0.27	225
ZWL80-80-35	80	65	80	35	15	2900	57	3.8	5	0.28-0.37	235
ZWL80-40-50	80	65	40	50	18.5	2900	40	3.8	5	0.42-0.52	275
ZWL80-50-60	80	65	50	60	22	2900	42	3.8	5	0.53-0.61	295
ZWL100-100-15	100	80	100	15	7.5	1450	62	4.0	5	0.1-0.16	265
ZWL100-80-20	100	80	80	20	11	1450	55	4.0	5	0.13-0.21	285
ZWL100-100-20	100	80	100	20	11	1450	55	4.0	5	0.13-0.21	285
ZWL100-100-30	100	80	100	30	22	2900	51	4.0	4.5	0.24-0.32	295
ZWL100-100-30	100	80	100	30	22	1450	45	4.0	5	0.24-0.32	490
ZWL100-80-45	100	80	80	45	30	2900	40	4.0	4.5	0.38-0.46	410
ZWL100-80-60	100	80	80	60	37	2900	40	4.0	5	0.54-0.62	440
ZWL100-80-80	100	80	80	80	45	2900	45	4.0	5	0.74-0.81	530
ZWL125-120-20	125	125	120	20	15	1450	50	4.5	5	0.13-0.21	345
ZWL150-180-14	150	125	180	14	15	1450	59	5.0	5	0.08-0.16	345
ZWL150-180-20	150	125	180	20	22	1450	50	5.0	5	0.13-0.21	440
ZWL150-180-30	150	125	180	30	37	1450	55	5.0	5	0.24-0.32	600
ZWL150-180-40	150	125	180	40	55	1450	46	5.0	5	0.32-0.41	950
ZWL150-180-50	150	125	180	50	75	1450	45	5.0	5	0.45-0.52	1100
ZWL200-280-14	200	150	280	14	22	1450	55	5.0	5	0.08-0.16	590
ZWL200-280-20	200	150	280	20	37	1450	56	5.0	5	0.13-0.21	740
ZWL200-300-25	200	150	300	25	45	1450	57	5.0	5	0.18-0.27	770
ZWL200-280-28	200	150	280	28	55	1450	63	4.8	5	0.22-0.3	980
ZWL250-420-20	250	200	420	20	55	1450	50	6.0	4.5	0.13-0.21	1130
ZWL300-800-14	300	250	800	14	55	1450	50	6.0	4.5	0.10-0.15	1380
ZWL350-1200-14	350	300	1200	14	110	1450	60	6.0	4	0.10-0.15	2400

◆ 概述 Genral

本公司生产的ZX系列自吸泵是根据国内外有关技术资料经吸收、消化、改进后研制而成的节能泵类产品。该泵属自吸式离心泵，它具有结构紧凑、操作方便、运行平稳、维护容易、效率高、寿命长，并具有较强的自吸能力等优点。管路中不需安装底阀，工作前只需保证泵体内储有定量引液即可。因此简化了管路系统，又改善了劳动条件。

ZX series vertical type self-priming pump of our company is research and develop after digest ,absorb and improve on the base of domestic and international technique. This kind of pump belong to centrifugal oip pump which has a lots of advantage,such as simple construction,easy to operate, operate steadily, convenient maintaince,high efficient, long lifetime, strong self-priming ability.The pipe no need to install foot valve,just to assure there are enough oil in the body of the pump after beginning work. It result in simplify the pipeline system and improve the working conditions.

◆ 型号说明 Type description



◆ 使用范围 Application

1、适用于城市环保、建筑、消防、化工、制药、染料、印染、酿造、电力、电镀、造纸、工矿冲洗、设备冷却等。

2、装上摇臂式喷头、又可将水冲到空中后，散成细小雨滴进行喷雾，是农场、苗圃、果园、茶园的良好机具。

3、适用于清水、海水及带有酸、碱度的化工介质液体和带有一般糊状的浆料(介质粘度 ≤ 100 厘珀、含固量可达30%以下)。

4、可和任何型号、规格的压滤机配套使用，将浆料送给压滤机进行压滤的最理想配套泵种。

1. Applicable for urban environment, construction, fire control, chemical industry, pharmacy, dye, brewage, power electricity, plating, paper making, washing of industrial mines, cooling of equipment, etc.

2. It can be fitted with a rocking sprinkler to make water high into air and then spraying down with small drops, making it a good choice for farms, nurseries, gardens and tea gardens.

3. Suitable for clean water, sea water, chemical liquid carrying acid and alkali, and general mushy slurry (medium viscosity ≤ 100 centipoise, solid content below 30%).

4. It suitable for any styles of pressing filter machine. It is the best matched pump which transports slurry to pressing filter machine to filter

◆ 型号与性能参数 Type and performance parameter

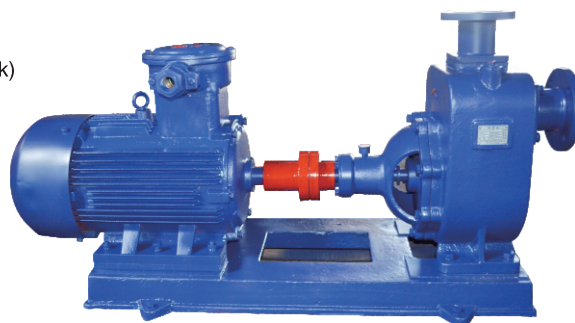
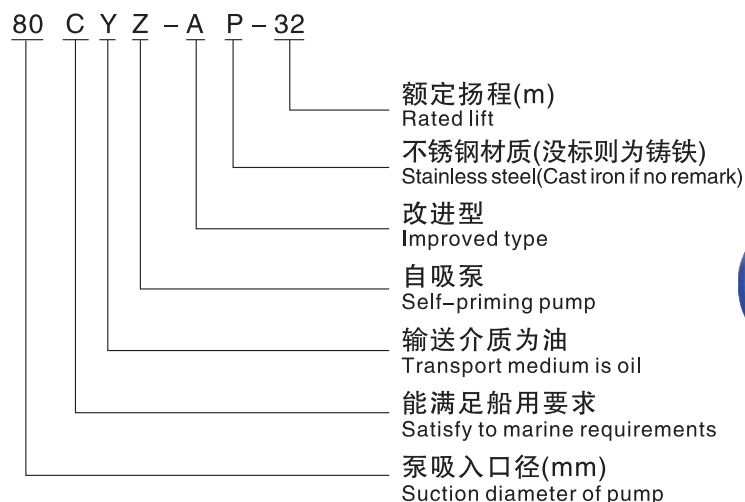
性能参数 performance parameter 型 号 Type	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流 量 Flow		扬 程 Lift (m)	吸 程 Suction lift (m)	功 率 Capacity (kw)	转 速 Rotation rate (r/min)	压力控制范围 Pressure control range (MPa)	重 量 Weight (kg)
			(m³/h)	(L/S)						
25ZX3.2-20	25	25	3.2	0.9	20	4.5	1.1	2900	0.15-0.22	60
25ZX3.2-32	25	25	3.2	0.9	32	4.5	1.5	2900	0.22-0.32	75
32ZX3.2-32	32	32	3.2	0.9	32	4.5	1.5	2900	0.22-0.32	80
32ZX3.2-50	32	32	3.2	0.9	50	4.5	4	2900	0.42-0.52	135
40ZX6.3-20	40	32	6.3	1.8	20	5	1.5	2900	0.12-0.22	80
40ZX10-40	40	40	10	2.8	40	5	4	2900	0.32-0.42	135
40ZX12.5-50	40	40	12.5	3.5	50	5	5.5	2900	0.42-0.52	150
50ZX15-12	50	40	15	4.2	12	5	1.5	2900	0.08-0.12	85
50ZX18-20	50	40	18	5	20	5	2.2	2900	0.12-0.22	90
50ZX12.5-32	50	40	12.5	3.5	32	5	3	2900	0.22-0.32	105
50ZX20-30	50	40	20	3.6	30	5	4	2900	0.20-0.32	135
50ZX14-35	50	40	14	3.9	35	5	4	2900	0.22-0.35	135
50ZX10-40	50	40	10	2.8	40	5	4	2900	0.32-0.42	135
50ZX12.5-50	50	40	12.5	3.5	50	5	5.5	2900	0.42-0.52	150
50ZX15-60	50	40	15	4.2	60	5	7.5	2900	0.50-0.62	165
50ZX20-75	50	40	20	5.6	75	5	11	2900	0.65-0.75	210
65ZX30-15	65	65	30	8.3	15	4.5	3	2900	0.10-0.15	100
65ZX25-32	65	65	25	6.9	32	5	5.5	2900	0.22-0.32	160
65ZX25-50	65	65	25	6.9	50	5	7.5	2900	0.42-0.52	210
65ZX25-75	65	65	25	6.9	75	5	11	2900	0.65-0.75	250
80ZX35-13	80	65	35	9.7	13	4.5	3	2900	0.08-0.15	100
80ZX43-17	80	65	43	12	17	4.5	4	2900	0.10-0.18	120
80ZX40-22	80	65	40	11.1	22	5	5.5	2900	0.12-0.22	150
80ZX50-25	80	65	50	13.9	25	4.5	7.5	2900	0.15-0.25	155
80ZX50-32	80	65	50	13.9	32	5	7.5	2900	0.22-0.32	160
80ZX60-55	80	80	60	16.7	55	5	18.5	2900	0.45-0.55	280
80ZX60-70	80	80	60	16.7	70	5	22	2900	0.65-0.70	310
100ZX100-20	100	80	100	27.8	20	5	11	2900	0.12-0.22	230
100ZX100-32	100	80	100	27.8	32	5	15	2900	0.22-0.32	245
100ZX100-40	100	80	100	27.8	40	5	22	2900	0.32-0.42	425
100ZX100-65	100	80	100	27.8	65	5	30	2900	0.55-0.66	590
100ZX70-75	100	80	70	19.4	75	5	30	2900	0.66-0.76	600
150ZX160-55	150	150	160	44.4	55	5	45	2900	0.48-0.56	800
150ZX160-65	150	150	160	44.4	65	5	55	2900	0.58-0.66	890
150ZX150-80	150	150	150	41.7	80	5	55	2900	0.72-0.82	920
200ZX400-32	200	200	400	111.1	32	4.5	55	1450	0.25-0.33	1135
200ZX280-63	200	200	280	77.8	63	4.5	90	1450	0.55-0.64	1380
200ZX350-65	200	200	350	97.2	65	4.5	110	1450	0.58-0.66	1650
250ZX550-32	250	250	550	152.8	32	4.5	75	1450	0.25-0.34	1280
250ZX400-50	250	250	400	111.1	50	4.5	90	1450	0.42-0.52	1430
250ZX450-55	250	250	450	125	55	4.5	110	1450	0.45-0.55	1740
250ZX400-75	250	250	400	111.1	75	4.5	132	1450	0.67-0.76	2300
300ZX600-32	300	300	600	166.7	32	4.5	90	1450	0.25-0.34	1540
300ZX500-50	300	300	500	138.9	50	4.5	110	1450	0.42-0.52	1840
300ZX550-55	300	300	550	152.8	55	4.5	132	1450	0.45-0.55	1950

◆ 概述 General

本公司生产的CYZ-A型自吸式离心油泵是根据国内外有关技术资料经消化、吸收、改进后研制而成的最新泵类产品，国内空白独一无二，广泛适用于油库、加油站、油轮、油船、码头、油罐车、机场，分别输送汽油、煤油、柴油、航煤等，如改用耐腐蚀机械密封和不锈钢材质还可以适用于化工、制药、酿造、电镀、印染、造纸、电力矿山等，输送介质温度 $-20^{\circ}\text{C}\sim 80^{\circ}\text{C}$ ，粘度 ≤ 100 厘泊，含固量可达30%以下。

CYZ-A Centrifugal Oil Pump of our company is research and develop after digest, absorb and improve on the base of domestic and international technique. It is a unique product in domestic. Suitable for oil storage, fuel Station, oiler, dock, tank truck, port to transport the gasoline, kerosene, diesel, fuel tank etc. It also suitable for chemical industry, pharmacy, brewage, plating, dye, paper making, electronic and mines etc if use the anticorrosion mechanical seal and the stainless steel material. The temperature of transporting medium is $-20^{\circ}\text{C}\sim 80^{\circ}\text{C}$, viscosity ≤ 100 centipoise, solid content below 30%.

◆ 型号说明 Type description



◆ 结构特点 Structural features

1、该泵属自吸式离心泵，它具有结构简单、操作方便、运行平稳、维护容易、效率高、寿命长、具有较强的自吸能力等优点。管路中不需底阀，工作前只需保证泵体内储有定量引油即可。用于油轮或输水船舶上时，可兼作扫舱泵，扫舱效果良好。

2、该泵是选用优质材料精作而成，密封采用硬质合金机械密封，经久耐用，吐出管路不需要安装安全阀，吸入管路不需要安装底阀因此简化了管路系统，又改善了劳动条件。

1、 This kind of pump belongs to centrifugal oil pump, it has lots of advantage, such as simple construction, easy to operate, operate steadily, convenient maintenance, high efficient, long lifetime, strong self-priming ability. The pipe is not necessary to install foot valve, just to assure there are enough oil in the body of the pump after beginning the work. It is good for as stripping pump when in the oiler and transport the water.

2、 This pump is produced by high quality material, used the hard alloy metal as mechanical seal and have long lifetime. It needn't install the safety valve in the outlet pipe, and also needn't install the foot valve in the suction pipe which simplified the system and improved the working conditions.

◆ 型号与性能参数 Type and performance parameter

性能参数 Performance parameter 型 号 Type	进口口径 Inlet diameter (mm)	出口口径 Outlet diameter (mm)	流 量 Flow		扬 程 Lift (m)	吸 程 Suction lift (m)	功 率 Capacity (kw)	转 速 Rotation rate (r/min)	压力控制范围 Pressure control range (MPa)	重 量 Weight (kg)
			(m ³ /h)	(L/S)						
25CYZ-A-20	25	25	3.2	0.9	20	4.5	1.1	2900	0.15-0.22	72
25CYZ-A-32	25	25	3.2	0.9	32	4.5	1.5	2900	0.22-0.32	80
32CYZ-A-32	32	32	3.2	0.9	32	4.5	1.5	2900	0.22-0.32	90
32CYZ-A-50	32	32	3.2	0.9	50	4	4	2900	0.42-0.52	145
40CYZ-A-20	40	32	6.3	1.8	20	5	1.5	2900	0.12-0.22	85
40CYZ-A-40	40	40	10	2.8	40	5	4	2900	0.32-0.42	138
40CYZ-A-50	40	40	12.5	3.5	50	5	5.5	2900	0.42-0.52	160
50CYZ-A-12	50	40	15	4.2	12	5	1.5	2900	0.08-0.12	90
50CYZ-A-20	50	40	18	5	20	5	2.2	2900	0.12-0.22	98
50CYZ-A-30	50	40	20	5.6	30	5	4	2900	0.22-0.32	140
50CYZ-A-35	50	40	14	3.9	35	5	4	2900	0.22-0.35	145
50CYZ-A-40	50	40	10	2.8	40	5	4	2900	0.32-0.42	145
50CYZ-A-50	50	40	12.5	3.5	50	5	5.5	2900	0.42-0.52	160
50CYZ-A-60	50	40	15	4.2	60	5	7.5	2900	0.52-0.60	190
50CYZ-A-75	50	40	20	5.6	75	5	11	2900	0.65-0.75	240
65CYZ-A-15	65	65	30	8.3	15	4.5	3	2900	0.10-0.15	110
65CYZ-A-32	65	65	25	6.9	32	5	5.5	2900	0.22-0.32	175
65CYZ-A-50	65	65	25	6.9	50	5	7.5	2900	0.42-0.52	230
65CYZ-A-75	65	65	25	6.9	75	5	11	2900	0.65-0.75	280
80CYZ-A-13	80	65	35	9.7	13	4.5	3	2900	0.08-0.15	110
80CYZ-A-17	80	65	43	12	17	4.5	4	2900	0.10-0.18	130
80CYZ-A-22	80	65	40	11.1	22	5	5.5	2900	0.12-0.22	170
80CYZ-A-25	80	65	50	13.9	25	4.5	7.5	2900	0.18-0.25	175
80CYZ-A-32	80	65	50	13.9	32	5	7.5	2900	0.22-0.32	180
80CYZ-A-55	80	80	60	16.7	55	5	18.5	2900	0.45-0.55	310
80CYZ-A-70	80	80	60	16.7	70	5	22	2900	0.60-0.70	335
100CYZ-A-20	100	80	100	27.8	20	5	11	2900	0.12-0.22	260
100CYZ-A-40	100	80	100	27.8	40	5	22	2900	0.32-0.42	455
100CYZ-A-65	100	80	100	27.8	65	5	30	2900	0.55-0.65	620
100CYZ-A-75	100	80	70	19.4	75	5	30	2900	0.66-0.75	640
150CYZ-A-55	150	150	170	47.2	55	5	45	2900	0.48-0.56	830
150CYZ-A-65	150	150	170	47.2	65	5	55	2900	0.58-0.66	957
150CYZ-A-80	150	150	160	44.4	80	5	55	2900	0.72-0.82	986
200CYZ-A-32	200	200	400	111.1	32	4.5	55	1450	0.25-0.33	1205
200CYZ-A-63	200	200	280	77.8	63	4.5	90	1450	0.55-0.64	1450
200CYZ-A-65	200	200	350	97.2	65	4.5	110	1450	0.58-0.66	1700
250CYZ-A-32	250	250	550	152.8	32	4.5	75	1450	0.25-0.34	1350
250CYZ-A-50	250	250	400	111.1	50	4.5	90	1450	0.42-0.52	1500
250CYZ-A-55	250	250	450	125	55	4.5	110	1450	0.45-0.55	1790
250CYZ-A-75	250	250	400	111.1	75	4.5	132	1450	0.67-0.76	2350
300CYZ-A-32	300	300	600	166.7	32	4.5	90	1450	0.25-0.34	1608
300CYZ-A-50	300	300	500	138.9	50	4.5	110	1450	0.42-0.52	1880
300CYZ-A-55	300	300	500	152.8	55	4.5	132	1450	0.45-0.55	1995