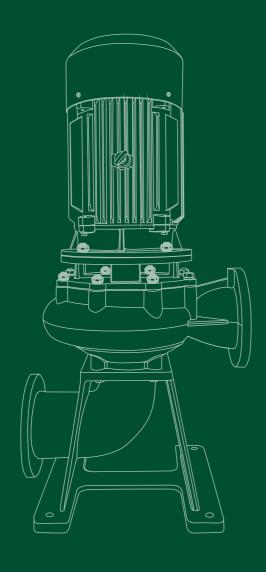
由于我们在不断努力改进产品,我们保留样本数据更改的权利,敬请谅解。 Due to our continuous efforts to improve the product, we reserve the right to make changes to the sample data. We apologize for any inconvenience caused.





Shanghai Sea Pump & Valve Mfg Co.,ltd

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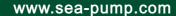
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LW/WL系列 直立式排污泵 LW/WL series vertical sewage pump

SEAPUMP







企业简介⁺ AOBUTS

上海海洋泵阀制造有限公司是专业从事水泵、生活消防设备及水泵智能控制开发、生产、销售 为一体的股份制企业,本公司运用先进的软件开发、设计产品保证了向顾客提供更优质的产品。

"海洋水泵,泵的海洋",海洋产品在全国各地设有分公司以及售后服务处,产品已应用于工矿企业、城市污水处理、城市供水、石油化工、农业灌溉等行业。本厂资金雄厚,生产设备先进,检测手段完善,并拥有一批高素质的专业人才队伍,同时ISO9001:2015国际质量管理体系的良好动作,为制造出优质、可靠的产品打下坚实基础。

本公司在"以人为本,科技兴业;以诚为用,质量立业;勇于开拓,锐意进取;追求卓越,走向未来"的方针指导下,不断开拓进取创新发展,在长期的实践中形成 了一套完整的质量体系,并配备了一支安装调试维护的售后服务队伍。销售网点辐射全国各大城市,产品行销全国各省、市自治区,并出口东南亚等国。并以一流的产品、一流的服务赢得了国内外广大用户的信赖和好评。本公司以"一切为了顾客的满意"为宗旨,继往开来,与时俱进。服务于人类建设美好家园。

Shanghai HAIYANG pump & valve Co., Ltd. Is a joint-stock enterprises which specializes in the manufacture of water pumps, fire fighting equipment and pumps intelligent controlling production, sales in one. our company uses advanced software to develop and design products to ensure that customers provide better quality products.

"HAIYANG water pumps, pump of the sea", the HAIYANG products throughout the country with more than 30 branch offices as well as after-sales service, products have been used in industrial and mining enterprises, urban sewage treatment, urban water supply, petrochemicals, agriculture and irrigation sectors. Factory with a strong financial background, advanced production equipment and means of improving the detection and has a number of high-quality professional talent, while ISO9001: 2000 international quality management system of good moves, in order to create high-quality, reliable products to lay a solid foundation.

In this "people-oriented, Industrial Science and Technology; to use for Prudential, the quality of establishing themselves; to open up the courage to strive for progress; the pursuit of excellence, into the future" under the guidance of continuous innovation and development to forge ahead in long-term practice of the formation of a complete set of The quality system and is equipped with an installation of the maintenance of after-sales service team. Radiation sales outlets in major cities nationwide, product marketing provinces, municipalities and autonomous regions, and exports in countriessuch as South-East Asia. And first-class products, first-class service to win customers at home and abroad trust and praise. The Company take "everything for the customer satisfied" as the purpose, advance with the times, in the service of humanity home.

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海洋泵阀

SEA PUMP & VALVE

LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

排污泵系列 Sewage pump series



产品概述

LW型无堵塞排污泵是在引进国外先进技术的基 础上,结合国内水泵的使用特点而研制成功的新一 代泵类产品,水力模型等同采用WQ型排污泵。具有 节能效果显著、防缠绕、无堵塞等特点。在排送固 体颗粒和长纤维垃圾方面, 具有独特效果。

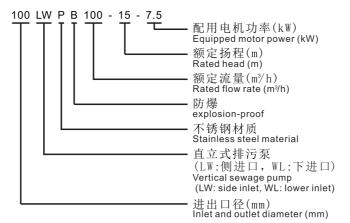
该系列泵采用独特叶轮结构和新型机械密封, 能有效地输送含有固体物和长纤维,叶轮与传统叶 轮相比,该泵叶轮来用单流道或双流道形式,它类 似于一截面大小相同的弯管, 具有非常好的过流性, 配以合理的蜗室, 使得该泵具有效率高、叶轮经平 衡试验, 使泵在运行中无振动。

该泵水力性能先进、成熟,产品经测试各项性 能指标均达到有关标准规定、产品投放市场后以其 独特的功效,可靠的性能,稳定的质量受到广大用 户的欢迎和好评。

产品适用场合

- 1. 工厂商业严重污染废水的排放。
- 2. 城市污水处理厂排水系统。
- 3. 住宅区的污水排水站。
- 4. 人防系统排水站。
- 5. 医院、宾馆的污水排放。
- 6. 市政工程、建筑工地。
- 7. 勘探、矿山配套附机。
- 8农村沼气池农田灌溉。
- 9. 自来水厂的给水装置。

型号意义 Type designation



Overview

LW type non clogging sewage pump is a new generation of pump products developed based on the introduction of advanced foreign technology and the characteristics of domestic water pumps. The hydraulic model is equivalent to the WQ type sewage pump. It has significant energy-saving effects, anti winding, and non clogging characteristics. It has a unique effect in discharging solid particles and long fiber

This series of pumps adopts a unique impeller structure and a new type of mechanical seal, which can effectively transport solids and long fibers. Compared with traditional impellers, the impeller of this pump adopts a single or double channel form, which is similar to a curved pipe with the same cross-sectional size and has excellent flowability. Equipped with a reasonable volute chamber, the pump has high efficiency, and the impeller has undergone balance tests, making the pump vibration free during operation.

The hydraulic performance of this pump is advanced and mature. After testing, all performance indicators of the product meet relevant standards and regulations. After being put on the market, the product has been welcomed and praised by a large number of users for its unique efficacy, reliable performance, and stable quality.

Applicable occasions of the product

- 1. The discharge of severely polluted wastewater from factories and businesses.
 - 2. Urban sewage treatment plant drainage system.
 - 3. Sewage drainage stations in residential areas.
 - 4. Civil air defense system drainage station.
 - 5. Sewage discharge from hospitals and hotels.
 - 6. Municipal engineering and construction sites.
 - 7. Auxiliary equipment for exploration and mining.
 - 8 Rural biogas digesters for farmland irrigation.
 - 9. The water supply device of the water plant.

排污泵系列 Sewage pump series

产品特点

- 1. 采用大流道抗堵塞水力部件设计,大大提高 污物通过能力,能有效地通过泵口径的5倍纤维物质 和直径为泵口径约50%的固体颗粒。
- 2. 设计合理,配套电机合理,效率高,节能效 果显著。
- 3. 机械密封采用单端面密封, 材质为硬度耐磨 耐腐碳化钨, 具有耐用、耐磨等特点, 可以使用安 全连续运行8000小时以上。
- 4. LW型泵与电机直联同轴,属机电一体化产品, 结构紧凑,性能稳定。
 - 5. 水力性能先进,整机效率高,运转噪音低。
- 6,在电机风叶端加上防护罩,整机可置于室外 工作, 无需机房, 可节省大量基建费用。
 - 7. 泵与电机为整机结构, 故安装时无需校正。

泵的使用条件

- 1. 介质温度不超过60℃, 重度为1. 0-1. 3Kg/dm³, PH值在5-9范围内。
- 2. 泵和电机为整体机构, 所以要求泵工作周围 温度不得超过40℃,海拔高度不超过1000m相对湿 度不超过95%。
- 3. 一般情况下, 泵必须在使用扬程范围内使用, 保证电机不超载,如需在全扬程范围范围使用,应 在订货时另行注明,以便厂家制造。
- 4. 在运行过程泵电机电流不得超过电机的额定 电流。

Product Features

- 1. Adopting a large channel anti clogging hydraulic component design, greatly improving the ability of pollutants to pass through, effectively passing through 5 times the fiber material of the pump diameter and solid particles with a diameter of about 50% of the pump diameter.
- 2. Reasonable design, reasonable supporting motor, high efficiency, and significant energy-saving effect.
- 3. The mechanical seal adopts a single end face seal, made of hard, wear-resistant, corrosion-resistant tungsten carbide, which is durable, wear-resistant, and can operate safely and continuously for over 8000 hours.
- 4. The LW pump and motor are directly connected and coaxial, belonging to the electromechanical integration product, with a compact structure and stable performance.
- 5. Advanced hydraulic performance, high overall efficiency, and low operating noise.
- 6. By adding a protective cover at the end of the motor blade, the entire machine can be placed outdoors for operation without the need for a computer room, which can save a lot of infrastructure costs.
- 7. The pump and motor are of a complete structure, so there is no need for calibration during installation.

Service conditions of the pump

- 1. The medium temperature shall not exceed 60 $^{\circ}$ C, and the density shall be 1.0-1.3Kg/dm³, The pH value is within the range of 5-9.
- 2. The pump and motor are integral mechanisms, so it is required that the temperature around the pump should not exceed 40 °C, and the relative humidity should not exceed 95% at an altitude of no more than 1000m.
- 3. In general, the pump must be used within the range of operating head to ensure that the motor is not overloaded. If it needs to be used within the full head range, it should be noted separately when ordering, so that the manufacturer can manufacture it.
- 4. During operation, the pump motor current should not exceed the rated current of the motor.



海洋泵阀 SEA PUMP & VALVE

LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

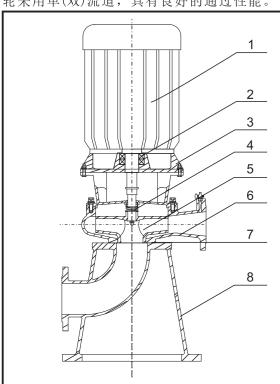
排污泵系列 Sewage pump series

结构说明

GW型系列无堵塞单级管道排污泵系进出口在同 一水本线上,且规格相同,立式结构,占地面积小, 电机与泵同轴,设有安装底盘,便于安装稳固,叶 轮采用单(双)流道,具有良好的通过性能。



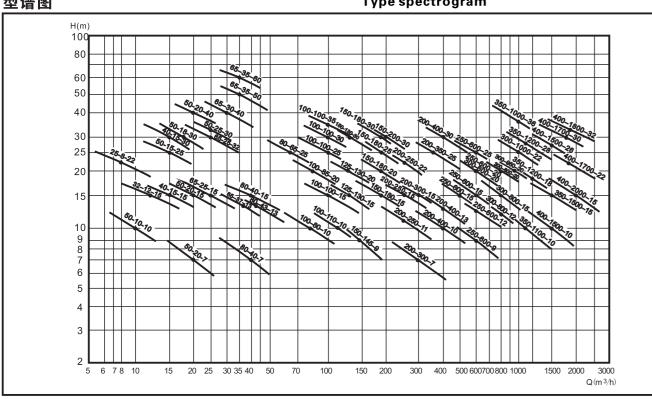
The GW series non clogging single stage pipeline sewage pump system has the same inlet and outlet on the same water main line, and the specifications are the same. It is a vertical structure with a small floor area, and the motor and pump are coaxial. It is equipped with an installation chassis for easy and stable installation. The impeller adopts a single (double) flow channel, which has good passing performance.



序号 Serial NO.	名称	Name
1	电机	motor
2	轴承	bearing
3	电机座	motor base
4	机械密封	mechanical seal
5	叶轮	impeller
6	泵体	pump body
7	密封圈	sealing ring
8	底座	base

型谱图

Type spectrogram



LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

SEA PUMP & VALVE



排污泵系列 Sewage pump series 性能参数表及尺寸表

Performance parameter table and size table

序号	型号	流量	扬程	转速	功率	效率	口径	进口法兰		出口法兰 Outlet flange				外形尺寸 Contour dimensions			
Serial NO.	Type	Capacity m ³ /h	Head m	Speed r/min	Power kW	Efficiency %	Diameter mm	d2	Inlet flar	n-d1	d4	H2	n-d3	В	B1	d5	<u>.</u> Н
1	25LW8-12-0.75	8	12	2900	0.75	48				li di	u4		11 U.S			uo	
2	25LW8-22-1.1	8	22	2900	1.1	45	25	75	107	4-14	75	265	4-14	300	250	20	604
3	32LW8-12-0.75	8	12	2900	0.75	48		00			00	005		000	050		004
4	32LW8-12-1.1	8	22	2900	1.1	45	32	90		4-14	90	265	4-14	300	250	20	604
5	40LW12-15-1.5	12	15	2900	1.5	48	40	100	107	4-14	100	265	4-14	300	250	20	604
6	50LW20-7-0.75	20	7	2900	0.75	62						288					630
7	50LW10-10-0.75	10	10	2900	0.75	54]					200					030
8	50LW20-15-1.5	20	15	2900	1.5	51		50 110									
9	50LW15-30-2.2	15	30	2900	2.2	45	50					290					630
10	50LW42-9-2.2	42	9	2900	2.2	52			110	4-14	110		4-14	300	250	20	
11	50LW30-10-2.2	30	10	2900	2.2	51											
12	50LW17-25-3	17	25	2900	3	52						298					730
13	50LW40-15-4	40	15	2900	4	57						004					000
14	50LW25-32-5.5	25	32	2900	5.5	60	-					301					800
15	50LW20-40-7.5	20	40	2900	7.5	46											L
16 17	65LW25-15-2.2	25	15	2900	2.2	52											
18	65LW37-13-3	37	13	2900	3	52 60	-					310					680
19	65LW25-30-4	25	30	2900	4	58	1										780
20	65LW30-30-5.5	30	30	2900	5.5	58	65	130	120	4-14	130	320	4-14	315	250	20	700
21	65LW30-40-7.5	30	40	2900	7.5	55	00	100	120		100	020	1 -1-1-	315	250	20	840
22	65LW35-50-11	35	50	2900	11	42	1										
23	65LW35-60-15	35	60	2900	15	41	1					306					990
24	80LW40-7-2.2	40	7	1450	2.2	50						400					850
25	80LW43-13-3	43	13	2900	3	48	1										
26	80LW50-7-3	50	7	2900	3	52	1						4-18	390	330	20	970
27	80LW40-15-4	40	15	2900	4	48	80	150	150	4-18	150						850
28	80LW50-20-5.5	50	20	2900	5.5	50	1					390					
29	80LW65-25-7.5	65	25	2900	7.5	51]										900
30	80LW80-15-7.5	80	15	2900	7.5	54											
31	100LW70-7-3	70	7	1450	3	60											
32	100LW85-10-4	85	10	1450	4	62						500	4-18	390	330	20	980
33	100LW60-15-4	60	15	1450	4	60											
34	100LW65-15-5.5	65	15	1450	5.5	59											<u></u>
35	100LW100-15-7.5	100	15	1450	7.5	70	100	170	200	4-18	170						1080
36	100LW85-20-7.5	85	20	1450	7.5	65											
37	100LW100-25-11	100	25	1450	11	61						400					, , ,
38	100LW100-30-15	100	30	1450	15	59						490					1140
39	100LW100-35-18.5	100	35	1450	18.5	56											
40	1501W145 0 7 5	115	0	1/50	7 =	62	<u> </u>							l .			
41	150LW145-9-7.5 150LW110-15-7.5	145 110	9 15	1450 1450	7.5 7.5	63 61	-					495					1120
42	150LW110-15-7.5	200	10	1450	15	64	1						-				$\vdash \vdash \vdash$
44	150LW200-10-15	180	15	1450	15	62	1										1180
45	150LW180-20-18.5	180	20	1450	18.5	74	1										\vdash
46	150LW150-26-18.5	150	26	1450	18.5	72	150	225	200	8-18	225		8-18	480	400	20	1254
47	150LW180-25-22	180	25	1450	22	69	1					522			'	~~	-25-
48	150LW200-25-30	200	25	1450	30	65	1										
49	150LW200-30-37	200	30	1450	37	65	1										1300
50	150LW150-35-37	150	35	1450	37	63	1										
51	150LW180-40-45	180	40	1450	45	59	1										1420
52	200LW300-7-11	300	7	980	11	75											
53	200LW250-11-15	250	11	1450	15	72	1				280	80 587		480	400		
54	200LW250-15-18.5	250	15	1450	18.5	72	1										
55	200LW400-10-22	400	10	1450	22	75	200	280	200	8-18			8-18			20	1380
56	200LW300-15-22	300	15	1450	22	71]										
57	200LW400-13-30	400	13	1450	30	76											
58	200LW300-18-30	300	18	1450	30	68											



海洋泵阀 SEA PUMP & VALVE

LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

排污泵系列 Sewage pump series

性能参数表及尺寸表

Performance parameter table and size table

序号	型号	流量	扬程 Head	转速 Speed	功率 Power	效率 Efficiency	口径 Diameter	进口法兰 Inlet flange		出口法兰 Outlet flange			外形尺寸 Contour dimensions					
Serial NO.	Type	Capacity m ³ /h	m	r/min	kW	%	mm	d2	H1	n-d1	d4	H2	n-d3	В	B1	d5	Н	
1	200LW250-22-30	250	22	1450	30	71							11 40				1380	
2	200LW300-25-37	300	25	1450	37	71												
3	200LW400-20-45	400	20	1450	45	74									450	0.5	1450	
4	200LW250-35-45	250	35	1450	45	69	200	280	200	8-18	280	588	8-18	535	450	25		
5	200LW400-30-55	400	30	1450	55	72											1600	
6	200LW200-60-75	200	60	1450	75	52												
7	250LW600-9-30	600	9	980	30	78												
8	250LW600-12-37	600	12	1450	37	76												
9	250LW600-15-45	600	15	1450	45	73	250	335	240	12-18	335	685	12-18	590	500	27	1550	
10	250LW600-20-55	600	20	1450	55	73	230	333	240	12-10	333	003	12-10	330	300	21		
11	250LW600-25-75	600	25	1450	75	71												
12	250LW600-30-90	600	30	1450	90	68											1850	
13	300LW800-12-45	800	12	980	45	74											1650	
14	300LW480-15-45	480	15	1450	45	66											1000	
15	300LW400-20-45	400	20	1450	45	64												
16	300LW600-20-55	600	20	1450	55	73	300	395	300	12-23	395	686	12-23	315	250	20	1680	
17	300LW800-20-75	800	20	1450	75	75												
18	300LW950-20-90	950	20	1450	90	76											1780	
19	300LW950-24-110	950	24	1450	110	76												
20	350LW1500-7-45	1500	7	740	45	87												
21	350LW1100-10-55	1100	10	980	55	85											.	
22	350LW1180-13-75	1180	13	980	75	84												
23	350LW1200-15-90	1200	15	980	90	84	350	445	240	12-23	445	710	12-23	800	700	27	1900	
24	350LW1130-18-90	1130	18	980	90	83												
25	350LW1250-20-110	1250	20	980	110	83												
26 27	350LW1500-20-132 350LW1500-26-160	1500 1500	20 26	980 980	132 160	82 83												
28	400LW2000-6-55	2000	6	740	55	86												
29	400LW1800-7-55	1800	7	740	55	85												
30	400LW2500-7-75	2500	7	740	75	85												
31	400LW1800-10-75	1800	10	740	75	85												
32	400LW1690-12-90	1690	12	980	90	85												
33	400LW2000-10-90	2000	10	980	90	85												
34	400LW2000-13-110	2000	13	980	110	84	400	495	300	16-23	495	850	16-23	390	330	27	2400	
35	400LW2000-15-132	2000	15	980	132	83												
36	400LW1700-22-160	1700	22	980	160	83												
37	400LW2000-18-160	2000	18	980	160	85												
38	400LW1950-23-185	1950	23	980	185	85												
39	400LW1980-26-220	1980	26	980	220	83												
40	400LW1800-32-250	1800	32	980	250	82											<u> </u>	
41	450LW2300-10-90	2300	10	740	90	85												
42	450LW2250-11-110	2250	11	740	110	85												
43	450LW2100-12-110	2100	12	740	110	83												
44	450LW2260-14-132	2260	14	740	132	83	450	550	350	16-23	550	1000	16-23	1000	900	27	2400	
45	450LW2280-20-185	2280	20	740	185	82	750	550	550	10-20	550	1000	10-20	1000	500	-1	2700	
46	450LW2300-25-250	2300	25	740	250	81												
47	450LW2300-29-280	2300	29	740	280	80												
48	450LW2100-36-315	2100	36	740	315	78												
49	500LW2500-10-110	2500	10	740	110	85												
50	500LW2500-16-160	2500	16	740	160	84												
51	500LW2500-18-185	2500	18	740	185	83	F00		450	00.00		4000	00.00	4000	4400		0000	
52	500LW2500-12-132	2500	12	740	132	85	500	600	450	20-23	600	1200	20-23	1200	1100	27	2800	
53	500LW2400-22-220	2400	22	740	220	85												
54	500LW2650-24-250	2650	24	740	250	85												
55 56	500LW2400-28-280	2400	28	740	280	85												
56 57	600LW5400-8-185	5400	8	580	185	87	600	705	500	20.26	705	1200	20.26	1200	1100	27	2000	
58	600LW4000-12-200	4000 3550	12 15	580 740	200	86 84	600	705	500	20-26	105	1200	20-26	1200	1100	27	2800	
00	600LW3550-15-200	JU000	10	140	200	04		<u> </u>										

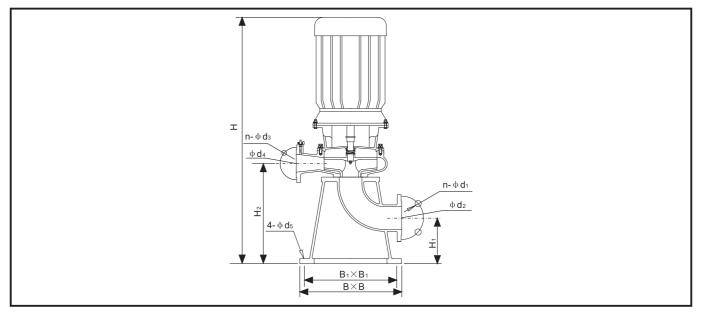
LW/WL系列直立式排污泵 LW/WL series vertical sewage pump

SEA PUMP & VALVE

排污泵系列 Sewage pump series

外形尺寸图

Outline Dimensional Drawing



泵的安装系统

1. 泵和管路应有各自支承件,不得将管路重量 作用于泵上。

2. 为了维护方便和使用安全,在泵的进出口管 路上各安装一只调节阀及在泵出口附近安装一只压 力表以保证泵在额定扬程和流量范围内运行,确保 泵的正常运行,提高水泵的使用寿命。

- 3. 安装泵时必须拧紧地脚螺栓, 以免起动时振 动对泵性能的影响。
- 4. 安装前应检查水泵和电机的紧固情况和有无 损伤。
- 5. 输送高温液体时为了不使泵承受管路的热变 形, 泵座的底脚螺栓不应固定, 当管路系统在热胀 冷缩时, 使泵能与管路一起移动。

Pump installation system

- 1. The pump and pipeline should have their own supporting parts, and the weight of the pipeline should not be applied to the pump.
- 2. If a check valve is installed in the discharge pipeline, it should be installed outside the gate valve.
- 3. For the convenience of maintenance and safety of use, a regulating valve is installed on the inlet and outlet pipelines of the pump, and a pressure gauge is installed near the pump outlet to ensure that the pump operates within the rated head and flow range, ensure the normal operation of the pump, and improve the service life of the pump.
- 4. When installing the pump, the foundation bolts must be tightened to avoid the impact of vibration on the pump performance during start-up.
- 5 In order not to make the pump bear the thermal deformation of the pipeline when delivering high-temperature liquid, the foot bolts of the pump base should not be fixed. When the Plumbing is in Thermal expansion, the pump can move with the pipeline.
- 6. The inlet and outlet connection flanges of the pump should be designed according to the 4216-84 standard, and the pipeline flanges should be equipped with the same regulations.
- 7. After installing the pump, move the pump shaft and ensure that there is no friction or jamming on the impeller. Otherwise, the pump should be disassembled for inspection and maintenance.
- 8. Before installation, check the tightness and damage of the water pump and motor.

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使用方法及注意事项

泵在运输、存放、安装过程中有无变形或损坏。

1. 泵使用前应仔细检查紧固件是否松动或脱落,

2. 泵起动后,旋转方向从进水口看为逆时针转动,如果电泵反转,只需将电缆线中的任何二相线对调一下接线位置即可。

3. 不得将电泵长期处于低扬程状态下运行(一般情况下使用扬程不得低于额定扬程的60%),最好能控制在建议使用扬程范围以内,以防水泵因超载而烧坏电机。

4. 泵不应在汽蚀工况下运行,以提高泵的使用寿命,严禁水泵缺液运行,否则极易烧损机械密封件。5. 如泵的零件为铸铁制成时,在冬季露天安装时,应注意防止击破,温度特别低时,应加以保温。

维护保养

1. 电泵应有专人管理与使用,并定期检查绝缘 电阻是否正常。

2. 叶轮和泵体之间的密封环具有密封功能,如 密封环损坏将直接影响泵的性能,必须及时更换。

3. 水泵如长时间不用时,应将水泵的液体放干, 以便热胀冷缩损坏水泵内部件。

Usage and precautions

1. Before using the pump, carefully check whether the fasteners are loose or detached, and whether the pump is deformed or damaged during transportation, storage, and installation.

2. After the pump starts, the rotation direction is counterclockwise from the water inlet. If the electric pump rotates in reverse, simply adjust the wiring position of any two phase wires in the cable.

3. It is not allowed to operate the electric pump in a low head state for a long time (usually the head used should not be less than 60% of the rated head), and it is best to control it within the recommended head range to prevent the pump from burning out the motor due to overload.

4. The pump should not operate under cavitation conditions to improve its service life. It is strictly prohibited to run the pump without liquid, otherwise it is very easy to burn the mechanical seals.

5. If the parts of the pump are made of cast iron, attention should be paid to preventing damage during outdoor installation in winter. When the temperature is particularly low, insulation should be provided.

Maintenance

 The electric pump shall be managed and used by a specially assigned person, and the insulation resistance shall be checked regularly to see if it is normal.

2. The sealing ring between the impeller and the pump body has a sealing function. If the sealing ring is damaged, it will directly affect the performance of the pump and must be replaced in a timely manner.

3. If the water pump is not used for a long time, the liquid of the water pump should be drained so that Thermal expansion can damage the internal parts of the water pump.

LW/WL系列直立式排污泵

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故障分析及排除方法

Troubleshooting and Remedy

故障现象 Symptom	原因分析 Cause	排除方法 Remedy
流量不足 或不出水 Insufficient flow or no water output	1. 叶轮旋转错误 1. Impeller rotation error 2. 阀门是否打开和完好 2. Is the valve open and intact 3. 管道叶轮被堵 3. The pipeline impeller is blocked 4. 扬程过高 4. The head is too high 5. 抽送介质密度较大 5. The density of the pumped medium is relatively high 6. 密封圈损坏 6. Damaged sealing ring	1. 调整叶轮旋转方向 1. Adjust the rotation direction of the impeller 2. 检查、维修、排除 2. Inspection, maintenance, and troubleshooting 3. 清理杂物 3. Clean up debris 4. 改泵或降低扬程 4. Change the pump or reduce the head 5. 用水冲稀降低浓度 5. Dilute with water to reduce concentration 6. 更换 6. Replacement
运行不稳定 Unstable operation	1. 叶轮不平衡 1.Unbalanced impeller 2. 轴承损坏 2.Bearing damaged	1. 送制造厂调换或较正 1.Replace or adjust 2. 更换 2.Replace
泵不能启动 Fail to start	1. 缺相 1. Phase loss 2. 叶轮卡住 2. Impeller is stuck 3. 绕组接头或电缆断路 3. Open circuit of winding connector or cable 4. 定子绕组烧坏 4. The stator winding is burnt out 5. 电器控制发生故障 5. Electrical control failure	1. 检查线路进行修复 1. Check the circuit for repair 2. 排除杂物 2. Remove sundries 3. 用欧姆表检查修复 3. Check and repair with ohmmeter 4. 修理、更换绕组 4. Repair and replace winding 5. 修理或调换 5. Repair or replace
电流过大 Over current	1. 工作电压低 1. Low working voltage 2. 管道、叶轮被堵 2. The pipe and impeller are blocked 3. 介质密度和粘度过高 3. Medium density and viscosity are too high 4. 流量过大 4. Excessive flow 5. 产生机械摩擦 5. Mechanical friction	1. 调速工作电压 1. Speed regulation working voltage 2. 清理管道、叶轮内堵物 2. Clean the blockage inside the pipe and impeller 3. 改变密度和粘度 3. Change density and viscosity 4. 减少流量、提高扬程 4. Reduce flow and improve lift 5. 进行维修调节 5. Carry out maintenance and adjustment
压力不足 Insufficient pressure	1. 机械密封损坏或泄漏 1. Mechanical seal damaged or leaking 2. 电缆线破损 2. Cable damage 3. 密封环磨损或损坏 3. The sealing ring is worn or damaged	1. 更换 1. Replacement 2. 更换 2. Replacement 3. 更换 3. Replacement