

**Y W TYPE**

# **NON-CLOGGED SUBMERGED CENTRIFUGAL PUMP**

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**ZHEJIANG YANGTZE RIVER PUMP CO., LTD**

## Introduction

Applied with the advanced technology of abs pump manufacturing co. in Germany , YW Submersible Sewage Pump is an advanced model among Similar Products in China. Combined with the efforts of pump researchers and experts in our company and in China and repeated improvements , this pump has reached the advanced level of similar products at home and abroad. This pump has the features of high energy-saving efficiency , unique structure etc. After the launch of the product, it receives favourable comment and welcome from our massive users and is used as substitutes for imported products by many departments.

Based on the QW Submerged Sewage Pump, QW submersible Sewage Pump, GW nonblock pipeline sewage pump and LW Vertical sewage pump series have rational design according to customer's requirements and conditions of use. Since the launch of the products, we have been receiving favourable comment and welcome from our massive users for their unique designs and reliable quality.

## Application of products

Factory and Commercial wastewater emissions, residential and urban areas sewage treatment, air defense systems drainage stations, water supply installations; hospitals, hotels sewage effluent, municipal engineering construction site, exploration, mine supporting machinery, rural digesters, irrigation etc, applicable for transportation of sewage, dirt with particles, water and corrosive media.

## Terms of Use

A media temperature shall not surpass 60℃ , media weight 1~1.3kg/dm<sup>3</sup>.

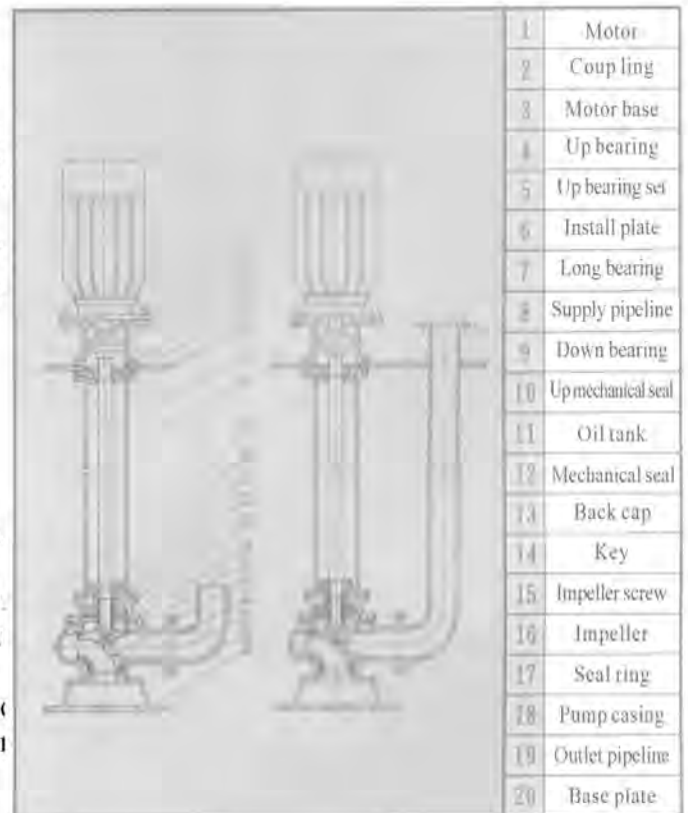
B for pumps without circulation cooling system, the motor shall not be above the surface by 1/2.

C Cast iron material shall be used among PH5~9.

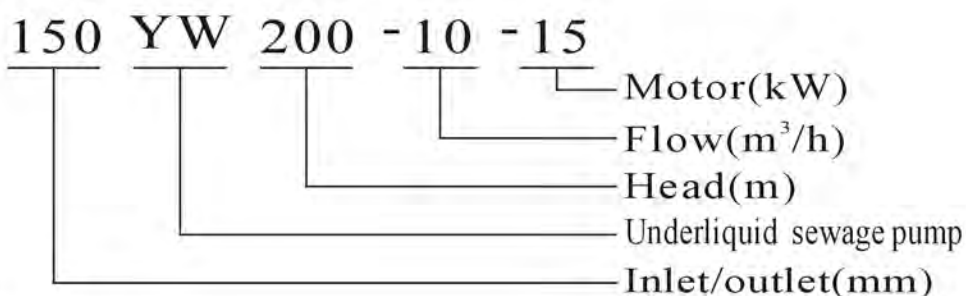
D 1Cr18Ni9Ti material is applicable for various corrosive liquids.

Notice: special requirement for temperature and liquids, please notify when order so that we can provide you reliable products.

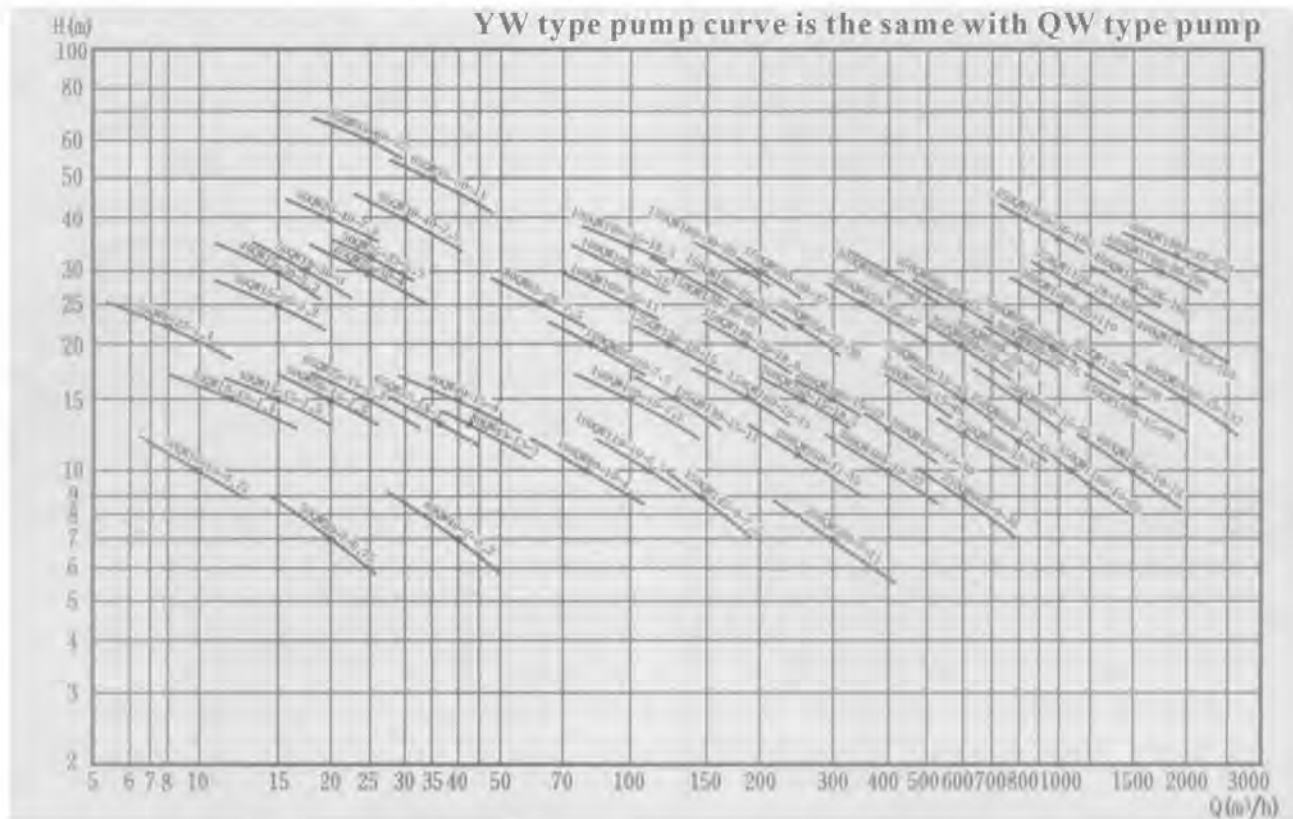
## Structure drawing



## Meaning of model



## Performance curve



## Common failures and solutions

Failures	Reasons	Solutions
Inadequate flow Or no flow	1 Impeller oposite rotation 2 Valve no open or damaged 3 Pipeline impeller blocked 4 too low speed 5 too high head 6 Medium density too high 7 Medium viscosity too high 8 Seal damaged	1 Adjust Impeller rotation direction 2 check, maintain and eliminate 3 Clean debris 4 Check electrical equipment and circuit 5 reduce head 6 Reduce the density through water dilution 7 reduce viscosity 8 replacement
Unstable operation	1 Impeller imbalance 2 Axle damage	1 Replace or check impeller 2 replacement
Pump does not work	1 power not correct 2 impeller blocked 3 Winding , connection or circuit broken 4 Stator windings damage 5 Electrical control failure	1 check the circuit 2 Exclude debris 3 Check with ohmmeter 4 maintain or replace the winding 5 repair or replace
Current excessive	1 Low voltage 2 pipe or impeller blocked 3 medium head or viscosity too high 4 head too low	1 adjust voltage 2 clean pipe or impeller 3 Change the density or viscosity 4 reduce flow and improve head
Low insulation resistance	1 Power cable terminals leakaged 2 Cable damaged 3 Mechanical seal weared 4 O-Seal broken 5 leakage from machine shell corrosion	1 tighten screws 2 replace 3 replace 4 replace 5 repair





*Performance parameters (eg: 25YW7-8-0.55)*

No	Model	Inlet/outlet (mm)	Flow (m <sup>3</sup> /h)	Head (m)	Speed (r/min)	Motor (kW)	Eff. (%)
1	25-7-8-0.55	25	7	8	2900	0.55	45
2	25-8-25-1.1	25	8	25	2900	1.1	45
3	32-8-12-0.75	32	8	12	2900	0.75	48
4	40-12-15-1.5	40	12	15	2900	1.5	48
5	50-20-7-0.75	50	20	7	2900	0.75	62
6	50-10-10-0.75	50	10	10	2900	0.75	54
7	50-20-15-1.5	50	20	15	2900	1.5	51
8	50-15-30-2.2	50	15	30	2900	2.2	51
9	50-17-25-3	50	17	25	2900	3	53
10	50-25-32-5.5	50	25	32	2900	5.5	49
11	65-25-15-2.2	65	25	15	2900	2.2	52
12	65-37-13-3	65	37	13	2900	3	60
13	65-25-30-4	65	25	30	2900	4	58
14	80-40-7-2.2	80	40	7	2900	2.2	50
15	80-80-15-7.5	80	80	15	1450	7.5	45
16	80-100-32-18.5	80	100	32	2900	18.5	65
17	80-40-15-4	80	40	15	2900	4	57
18	80-65-25-7.5	80	65	25	2900	7.5	56
19	100-85-10-4	100	85	10	1450	4	62
20	100-100-35-18.5	100	100	35	2800	18.5	67
21	100-65-15-5.5	100	65	15	1450	5.5	59
22	100-100-15-7.5	100	100	15	1450	7.5	70
23	100-85-20-7.5	100	85	20	1450	7.5	71
24	100-100-25-11	100	100	25	1450	11	61
25	150-145-9-7.5	150	145	9	1450	7.5	63
26	150-200-10-15	150	200	10	1450	15	64
27	150-180-15-15	150	180	15	1450	15	67
28	150-180-20-18.5	150	180	20	1450	18.5	74
29	150-150-26-18.5	150	150	26	1450	18.5	72
30	150-180-35-22	150	180	35	1450	22	69
31	150-200-30-37	150	200	30	1450	37	65
32	150-150-35-37	150	150	35	1450	37	63
33	200-300-7-11	200	300	7	980	11	75
34	200-250-11-15	200	250	11	1450	15	72
35	200-250-11-18.5	200	250	15	1450	18.5	72
36	200-400-10-22	200	400	10	1450	22	75
37	200-300-15-22	200	300	15	1450	22	71
38	200-400-13-30	200	400	13	1450	30	76
39	200-250-22-30	200	250	22	1450	30	71
40	200-300-25-37	200	300	25	1450	37	73
41	200-250-35-45	200	250	35	1450	45	69
42	200-400-30-55	200	400	30	1450	55	72
43	250-600-9-30	250	600	9	980	30	78
44	250-600-12-37	250	600	12	1450	37	76
45	250-600-15-45	250	600	15	1450	45	73
46	250-600-20-55	250	600	20	1450	55	73
47	250-600-25-75	250	600	25	1450	75	71
48	300-800-12-45	300	800	12	980	45	74
49	300-480-15-45	300	480	15	1450	45	66
50	300-400-20-45	300	400	20	1450	45	64
51	300-600-20-55	300	600	20	1450	55	73
52	300-800-20-75	300	800	20	1450	75	75
53	300-950-20-90	300	950	20	1450	90	76
54	300-950-24-110	300	950	24	1450	110	76
55	350-1100-10-45	350	1100	10	980	45	85
56	350-1180-13-75	350	1180	13	980	75	84
57	350-1200-15-90	350	1200	15	980	90	84
58	350-1130-18-90	350	1130	18	980	90	83
59	350-1250-19.5-110	350	1250	19.5	740	110	83
60	350-1500-20.6-132	350	1500	20.5	740	132	82
61	350-1500-26-160	350	1500	26	740	160	83
62	400-1800-9.5-7.5	400	1800	9.5	740	75	85
63	400-1690-12-90	400	1690	12	980	90	85
64	400-2000-13.5-110	400	2000	13.5	980	110	85
65	400-1700-22-160	400	1700	22	740	160	83.5
66	400-2000-18.4-160	400	2000	18.4	980	160	85
67	400-1950-23-185	400	1950	23	980	185	85
68	400-1980-26-220	400	1980	26	980	220	83
69	400-1800-32-250	400	1800	32	740	250	82
70	450-2300-9.5-90	450	2300	9.5	740	90	85
71	450-2250-11-110	450	2250	11	740	110	85
72	450-2260-14-132	450	2260	14	740	132	85
73	450-2280-20-185	450	2280	20	740	185	83
74	450-2300-25-250	450	2300	25	740	250	83
75	450-2300-29-280	450	2300	29	740	280	83
76	450-2100-36-315	450	2100	36	740	315	83
77	500-2490-10-110	500	2490	10	740	110	85
78	500-2500-16-160	500	2500	16	740	160	85
79	500-2490-18.5-185	500	2490	18.5	740	185	85
80	500-2500-12-132	500	2500	12	740	132	85
81	500-2400-22-220	500	2400	22	740	220	85
82	500-2650-24-250	500	2650	24	740	250	85
83	500-2400-28-280	500	2400	28	740	280	85

**YW Submersible Sewage Pump Operation Method**

The submersible sewage pump is suitable for installation on the support of a water tank or trough, with the motor on top and the body submerged in the liquid. It can be used in fixed or mobile places. The standard length of the pump is -2.5 meters, suitable for various enterprises to transport domestic sewage, construction sewage, industrial liquids containing particles and blocks, and can also be used to pump clear.

**Safety Operation Procedures**

- 1.The pump must be installed vertically on the cover plate of the liquid tank, and it is not allowed to be placed obliquely
- 2.Turn the pump by hand to check if the pump is jammed, and check if the rotation direction of the motor is consistent with the required direction
- 3.The pump must be submerged in the liquid, and it is strictly forbidden to run dry without liquid.
- 4.The outlet pipeline of the pump must be separately, and it is not allowed to directly place its weight on the pump body.

**浙江扬子江泵业有限公司**  
ZHEJIANG YANGTZE RIVER PUMP CO.,LTD

Address: No. 3, Linyang Industrial Zone, Oubei, Yongjia,  
Wenzhou, Zhejiang Province, China

E-mail:sales@yangtzepumps.com

Tel: +86-577-67988715

Website:www.yangtzeriverpump.com