



GW/LW 50Hz

Non-clogging sewage pumps



Zhejiang Nanbeng Fluid Machinery Co.,Ltd.

MAIL: info@zjnbump.com

WEB: www.zjnbump.com

ADD: Nanshe Industrial Park, Huzhou City, Zhejiang Province

E230301



ZHEJIANG NANBENG FLUID MACHINERY CO.,LTD.

Company Profile



Zhejiang Nanbeng Fluid Machinery Co.,Ltd. is a leading pump manufacturer committed to the Chinese people's water safety to make our own contribution. The team who founded the company is the first generation research and development of stainless steel centrifugal pump in China, has accumulated more than 30 years of technology research and development experience, core members presided over and participated in the development of national standard of the "light, small multistage centrifugal pump", national science and technology support plans for the 11th, 12th and 13th five-years plan, "national torch project", "national key new product project" and other projects of research and development, design and production. R&D centre equipped with industry-leading CFD fluid 3D simulation design software, domestic top stamping equipment and automatic production line to ensure high performance and high stability of products, our comprehensive R & D and production strength achieve domestic advanced level.

The construction area of the company is 82,000 square meters, design output value is one billion per year. We can offer you a wide range of stainless steel stamping and welding centrifugal pump, pipeline circulation pump, end suction centrifugal pump, sewage submersible pump, high pressure pump, fire pump and water supply and drainage complete sets of products for many applications as highest performance in booster sets and pressurization, building services, water treatment, industry, irrigation and industrial process, fire-fighting sets, pumping of underground water, drainage and sewage, utilities and desalination. Now we are looking for more partners around the world, we sincerely looking forward to your joining at Huzhou China. Global water challenges as well as opportunities, require excellence in pumping technologies and close cooperation between pump designers and manufacturers. Let's cooperate and make our contribution to the water security for more people all over the world.

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LW Non-Clogging Vertical Sewage Pump

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Overview

GW non-clogging sewage pump is a new generation of pump based on the introduction of foreign advanced technology, combined with the characteristics of the use of domestic pumps. The hydraulic model is equivalent to WQ sewage pump. The hydraulic model is the same as WQ type sewage pump. In the discharge of solid particles and long fiber garbage, it has a unique effect.

This series pump adopts unique impeller structure and new mechanical seal, which can effectively convey media containing solids and long fibers. Compared with the traditional impeller, the impeller of this pump adopts the form of single or double flow channel, with good over-flow, with a reasonable worm chamber, making the pump has a high efficiency. The impeller is balanced, so that the pump is vibration-free in operation.

The hydraulic performance of the pump is advanced and mature, and the performance index of the product has been tested to meet the relevant standards. The product has been put on the market with its unique efficacy, reliable performance and stable quality, which is welcomed and praised by the majority of users.

Product Features

- 1、 The pump is a vertical single-suction single-stage centrifugal sewage pump, the centerline of import and export is on the same level, and the flange of import and export is the same. Therefore, it is very convenient to install and dismantle, covering a small area, and can be installed in any position of the pipeline like a valve.
- 2、 Pump and motor are directly connected coaxially, which is an electromechanical integration product with compact structure and stable performance.
- 3、 Adopt large flow channel anti-clogging hydraulic parts design, greatly improve the dirt through the capacity, can effectively pass the pump diameter of 5 times the diameter of the pump and the diameter of the pump diameter of about 50% of the solid particles.
- 4、 Rational design, reasonable supporting motor, high efficiency, energy-saving effect is remarkable.
- 5、 The mechanical seal adopts hard wear-resistant tungsten carbide, which is durable and wear-resistant, and can make the pump run safely and continuously for more than 8000 hours.
- 6、 Advanced hydraulic performance, high efficiency of the whole machine, low running noise.
- 7、 With the addition of the protective cover at the end of the motor blade, the whole machine can be placed outdoors, without the need for a machine room, which can save a lot of infrastructure costs.
- 8、 Use within the range of head, to ensure that the motor is not overloaded.

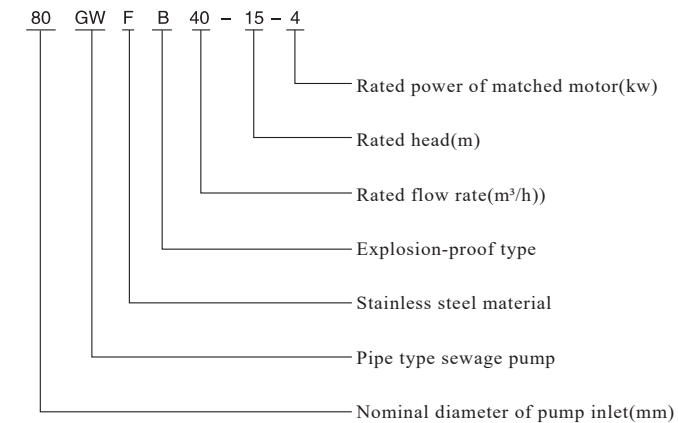
Application

- 1、 Discharge of heavily polluted wastewater from factory.
- 2、 Drainage system of urban sewage treatment plant.
- 3、 Wastewater drainage stations in residential areas.
- 4、 The drainage station of human defense system
- 5、 Sewage discharge of hospitals and hotels
- 6、 Municipal projects, construction sites.
- 7、 Exploration, mining supporting attachments
- 8、 Rural biogas ponds farmland irrigation.
- 9、 Water supply device of water supply plant.

Working Conditions

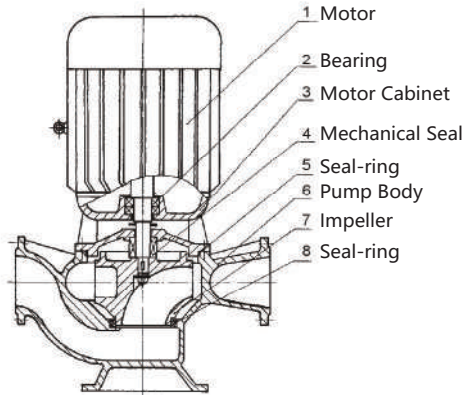
- 1、 The medium temperature should not exceed 60°C, the weight should be 1.0~1.3kg/dm³, and the PH value should be within 5~9.
- 2、 The pump and the motor are integral bodies, so it is required that the working environment temperature of the pump shall not exceed 40°C, the altitude shall not exceed 1000m, relative humidity not more than 95%.
- 3、 Under normal circumstances, the pump must be used within the range of head, to ensure that the motor is not overloaded, If it is necessary to use in the full range, it should be indicated separately when ordering, so that the manufacturer can manufacture.
- 4、 The pump motor current shall not exceed the rated current of the motor during operation.

Model definition

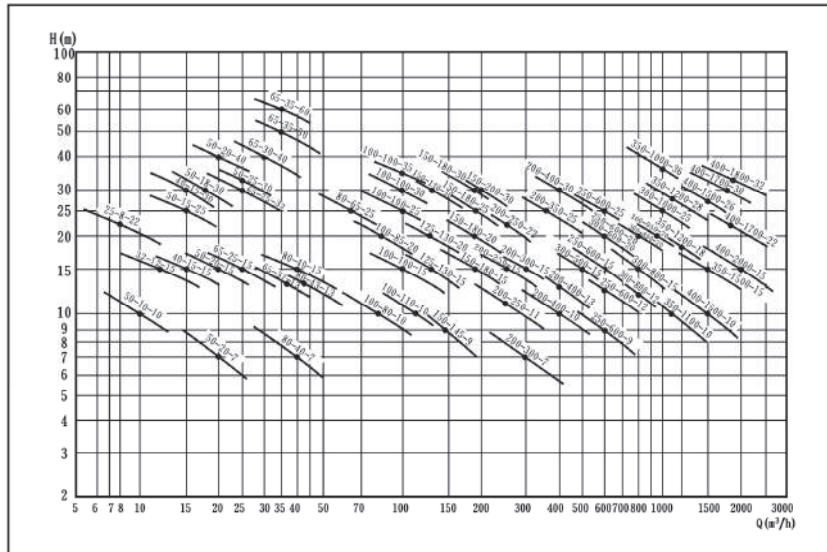


Structure Description

GW series non-clogging single-stage pipeline sewage pump is the import and export on the same level, and the import and export flange specifications are the same. Vertical structure, small footprint, motor and pump coaxial, with installation chassis, easy to install and stable, impeller using single (double flow suitable), it has good passing performance.



GW pump spectrum



GW Performance Table

| No. | Model | Diameter mm | Rated flow (m ³ /h) | Head (m) | Power (kw) | RPM (r/min) | η (%) | Head range (m) |
|-----|-------------------|-------------|--------------------------------|----------|------------|-------------|-------|----------------|
| 1 | 25GW8-22-1.1 | 25 | 8 | 22 | 1.1 | 2900 | 38.5 | 15-22 |
| 2 | 32GW12-15-1.1 | 32 | 12 | 15 | 1.1 | 2900 | 40 | 12-15 |
| 3 | 40GW15-15-1.5 | 40 | 15 | 15 | 1.5 | 2900 | 45.1 | 12-15 |
| 4 | 40GW15-30-2.2 | 40 | 15 | 30 | 2.2 | 2900 | 48 | 28-30 |
| 5 | 50GW20-7-0.75 | 50 | 20 | 7 | 0.75 | 2900 | 54 | 4-7 |
| 6 | 50GW10-10-0.75 | 50 | 10 | 10 | 0.75 | 2900 | 56 | 6-10 |
| 7 | 50GW20-15-1.5 | 50 | 20 | 15 | 1.5 | 2900 | 55 | 12-15 |
| 8 | 50GW15-25-2.2 | 50 | 15 | 25 | 2.2 | 2900 | 56 | 22-25 |
| 9 | 50GW18-30-3 | 50 | 18 | 30 | 3 | 2900 | 58 | 26-30 |
| 10 | 50GW25-32-5.5 | 50 | 25 | 32 | 5.5 | 2900 | 53 | 28-32 |
| 11 | 50GW20-40-7.5 | 50 | 20 | 40 | 7.5 | 2900 | 55 | 37-40 |
| 12 | 65GW25-15-2.2 | 65 | 25 | 15 | 2.2 | 2900 | 52 | 8-15 |
| 13 | 65GW37-13-3 | 65 | 37 | 13 | 3 | 2900 | 55 | 9-13 |
| 14 | 65GW25-30-4 | 65 | 25 | 30 | 4 | 2900 | 58 | 26-30 |
| 15 | 65GW30-40-7.5 | 65 | 30 | 40 | 7.5 | 2900 | 56 | 36-40 |
| 16 | 65GW35-50-11 | 65 | 35 | 50 | 11 | 2900 | 60 | 45-50 |
| 17 | 65GW35-60-15 | 65 | 35 | 60 | 15 | 2900 | 63 | 55-60 |
| 18 | 80GW40-7-2.2 | 80 | 40 | 7 | 2.2 | 2900 | 52 | 4-7 |
| 19 | 80GW43-13-3 | 80 | 43 | 13 | 3 | 2900 | 50 | 7-13 |
| 20 | 80GW40-15-4 | 80 | 40 | 15 | 4 | 2900 | 57 | 8-15 |
| 21 | 80GW65-25-7.5 | 80 | 65 | 25 | 7.5 | 2900 | 56 | 22-25 |
| 22 | 100GW80-10-4 | 100 | 80 | 10 | 4 | 2900 | 62 | 4-10 |
| 23 | 100GW110-10-5.5 | 100 | 110 | 10 | 5.5 | 2900 | 66 | 5-10 |
| 24 | 100GW100-15-7.5 | 100 | 100 | 15 | 7.5 | 2900 | 67 | 7-15 |
| 25 | 100GW85-20-7.5 | 100 | 85 | 20 | 7.5 | 2900 | 68 | 13-20 |
| 26 | 100GW100-25-11 | 100 | 100 | 25 | 11 | 2900 | 65 | 18-25 |
| 27 | 100GW100-30-15 | 100 | 100 | 30 | 15 | 2900 | 66 | 22-30 |
| 28 | 100GW-100-35-18.5 | 100 | 100 | 35 | 18.5 | 2900 | 65 | 30-35 |
| 29 | 125GW130-15-11 | 125 | 130 | 15 | 11 | 1450 | 62 | 12-15 |
| 30 | 125GW130-20-15 | 125 | 130 | 20 | 15 | 1450 | 63 | 16-20 |
| 31 | 150GW145-9-7.5 | 150 | 145 | 9 | 7.5 | 1450 | 63 | 6-9 |
| 32 | 150GW180-15-15 | 150 | 180 | 15 | 15 | 1450 | 65 | 10-15 |
| 33 | 150GW180-20-18.5 | 150 | 180 | 20 | 18.5 | 1450 | 75 | 10-20 |
| 34 | 150GW180-25-22 | 150 | 180 | 25 | 22 | 1450 | 76 | 19-25 |
| 35 | 150GW130-30-22 | 150 | 130 | 30 | 22 | 1450 | 75 | 25-30 |
| 36 | 150GW180-30-30 | 150 | 180 | 30 | 30 | 1450 | 73 | 25-30 |
| 37 | 150GW200-30-37 | 150 | 200 | 30 | 37 | 1450 | 70 | 25-30 |

GW Performance Table

| No. | Model | Diameter mm | Rated flow (m ³ /h) | Head (m) | Power (kw) | RPM (r/min) | η (%) | Head range (m) |
|-----|-------------------|----------------|-----------------------------------|-------------|---------------|----------------|----------|-------------------|
| 38 | 200GW300-7-11 | 200 | 300 | 7 | 11 | 1450 | 73 | 4-7 |
| 39 | 200GW250-11-15 | 200 | 250 | 11 | 15 | 1450 | 74 | 7-11 |
| 40 | 200GW400-10-22 | 200 | 400 | 10 | 22 | 1450 | 76 | 6-10 |
| 41 | 200GW400-13-30 | 200 | 400 | 13 | 30 | 1450 | 73 | 9-13 |
| 42 | 200GW250-15-18.5 | 200 | 250 | 15 | 18.5 | 1450 | 72 | 11-15 |
| 43 | 200GW300-15-22 | 200 | 300 | 15 | 22 | 1450 | 73 | 12-15 |
| 44 | 200GW250-22-30 | 200 | 250 | 22 | 30 | 1450 | 71 | 18-22 |
| 45 | 200GW350-25-37 | 200 | 350 | 25 | 37 | 1450 | 75 | 20-25 |
| 46 | 200GW400-30-55 | 200 | 400 | 30 | 55 | 1450 | 70 | 26-30 |
| 47 | 250GW600-9-30 | 250 | 600 | 9 | 30 | 970 | 74 | 5-9 |
| 48 | 250GW600-12-37 | 250 | 600 | 12 | 37 | 1450 | 78 | 8-12 |
| 49 | 250GW600-15-45 | 250 | 600 | 15 | 45 | 1450 | 75 | 7-15 |
| 50 | 250GW600-20-55 | 250 | 600 | 20 | 55 | 1450 | 73 | 15-20 |
| 51 | 250GW600-25-75 | 250 | 600 | 25 | 75 | 1450 | 73 | 20-25 |
| 52 | 300GW800-12-45 | 300 | 800 | 12 | 45 | 1450 | 76 | 8-12 |
| 53 | 300GW500-15-45 | 300 | 500 | 15 | 45 | 1450 | 70 | 11-15 |
| 54 | 300GW800-15-55 | 300 | 800 | 15 | 55 | 970 | 73 | 10-15 |
| 55 | 300GW600-20-55 | 300 | 600 | 20 | 55 | 1450 | 75 | 16-20 |
| 56 | 300GW800-20-75 | 300 | 800 | 20 | 75 | 1450 | 78 | 16-20 |
| 57 | 300GW950-20-90 | 300 | 950 | 20 | 90 | 970 | 80 | 16-20 |
| 58 | 300GW1000-25-110 | 300 | 1000 | 25 | 110 | 970 | 82 | 22-25 |
| 59 | 350GW1100-10-55 | 350 | 1100 | 10 | 55 | 970 | 84.5 | 7-10 |
| 60 | 350GW1500-15-90 | 350 | 1500 | 15 | 90 | 970 | 82.5 | 12-15 |
| 61 | 350GW1200-18-90 | 350 | 1200 | 18 | 90 | 970 | 83.1 | 15-18 |
| 62 | 350GW1100-28-132 | 350 | 1100 | 28 | 132 | 720 | 83.2 | 25-28 |
| 63 | 350GW1000-36-160 | 350 | 1000 | 36 | 160 | 720 | 78.5 | 30-36 |
| 64 | 400GW1500-10-75 | 400 | 1500 | 10 | 75 | 970 | 82.1 | 6-10 |
| 65 | 400GW2000-15-132 | 400 | 2000 | 15 | 132 | 720 | 85.5 | 10-15 |
| 66 | 400GW1700-22-160 | 400 | 1700 | 22 | 160 | 720 | 82.1 | 16-22 |
| 67 | 400GW1500-26-160 | 400 | 1500 | 26 | 160 | 720 | 83.5 | 22-26 |
| 68 | 400GW1700-30-200 | 400 | 1700 | 30 | 200 | 720 | 83.5 | 25-30 |
| 69 | 400GW-1800-32-250 | 400 | 1800 | 32 | 250 | 720 | 82.1 | 26-32 |
| 70 | 500GW2500-10-110 | 500 | 2500 | 10 | 110 | 720 | 82 | 6-10 |
| 71 | 500GW2600-15-160 | 500 | 2600 | 15 | 160 | 720 | 83 | 10-15 |
| 72 | 500GW2400-22-220 | 500 | 2400 | 22 | 220 | 720 | 84 | 17-22 |
| 73 | 500GW2600-24-250 | 500 | 2600 | 24 | 250 | 720 | 82 | 20-24 |

GW Installation Dimension Table

| No. | Model | A | B | B ₁ | n ₁ -Φa ₁ | D ₁ | D | n ₂ -Φa ₂ | L | H |
|-----|------------------|-----|-----|----------------|---------------------------------|----------------|-----|---------------------------------|-----|------|
| 1 | 25GW8-22-1.1 | 110 | 120 | 105 | 4-Φ12 | 60 | 100 | 4-Φ14 | 270 | 430 |
| 2 | 32GW12-15-1.1 | 110 | 120 | 105 | 4-Φ12 | 90 | 120 | 4-Φ14 | 270 | 430 |
| 3 | 40GW15-15-1.5 | 120 | 130 | 105 | 4-Φ12 | 100 | 130 | 4-Φ14 | 310 | 470 |
| 4 | 40GW15-30-2.2 | 120 | 130 | 105 | 4-Φ12 | 100 | 130 | 4-Φ14 | 310 | 490 |
| 5 | 50GW20-7-0.75 | 130 | 150 | 125 | 4-Φ13 | 110 | 140 | 4-Φ14 | 330 | 500 |
| 6 | 50GW10-10-0.75 | 130 | 150 | 125 | 4-Φ13 | 110 | 140 | 4-Φ14 | 330 | 500 |
| 7 | 50GW20-15-1.5 | 130 | 150 | 125 | 4-Φ13 | 110 | 140 | 4-Φ14 | 310 | 490 |
| 8 | 50GW15-25-2.2 | 130 | 150 | 125 | 4-Φ13 | 110 | 140 | 4-Φ14 | 310 | 510 |
| 9 | 50GW18-30-3 | 130 | 150 | 125 | 4-Φ13 | 110 | 140 | 4-Φ14 | 330 | 560 |
| 10 | 50GW25-32-5.5 | 140 | 170 | 145 | 4-Φ14 | 110 | 140 | 4-Φ14 | 350 | 620 |
| 11 | 50GW20-40-7.5 | 140 | 170 | 145 | 4-Φ14 | 110 | 140 | 4-Φ14 | 350 | 660 |
| 12 | 65GW25-15-2.2 | 140 | 160 | 135 | 4-Φ13 | 130 | 160 | 4-Φ14 | 310 | 500 |
| 13 | 65GW37-13-3 | 140 | 160 | 135 | 4-Φ13 | 130 | 160 | 4-Φ14 | 310 | 560 |
| 14 | 65GW25-30-4 | 140 | 160 | 135 | 4-Φ13 | 130 | 160 | 4-Φ14 | 330 | 600 |
| 15 | 65GW30-40-7.5 | 140 | 170 | 145 | 4-Φ14 | 130 | 160 | 4-Φ14 | 350 | 660 |
| 16 | 65GW35-50-11 | 150 | 200 | 160 | 4-Φ18 | 130 | 160 | 4-Φ14 | 370 | 750 |
| 17 | 65GW35-60-15 | 150 | 200 | 160 | 4-Φ18 | 130 | 160 | 4-Φ14 | 370 | 800 |
| 18 | 80GW40-7-2.2 | 180 | 200 | 170 | 4-Φ14 | 150 | 190 | 4-Φ18 | 420 | 650 |
| 19 | 80GW43-13-3 | 160 | 200 | 170 | 4-Φ14 | 150 | 190 | 4-Φ18 | 360 | 610 |
| 20 | 80GW40-15-4 | 160 | 200 | 170 | 4-Φ14 | 150 | 190 | 4-Φ18 | 360 | 620 |
| 21 | 80GW65-25-7.5 | 180 | 200 | 170 | 4-Φ14 | 150 | 190 | 4-Φ18 | 420 | 710 |
| 22 | 100GW80-10-4 | 210 | 250 | 220 | 4-Φ18 | 170 | 210 | 4-Φ18 | 540 | 700 |
| 23 | 100GW110-10-5.5 | 225 | 250 | 220 | 4-Φ18 | 170 | 210 | 4-Φ18 | 540 | 750 |
| 24 | 100GW100-15-7.5 | 225 | 250 | 220 | 4-Φ18 | 170 | 210 | 4-Φ18 | 540 | 760 |
| 25 | 100GW85-20-7.5 | 225 | 250 | 220 | 4-Φ18 | 170 | 210 | 4-Φ18 | 540 | 760 |
| 26 | 100GW100-25-11 | 240 | 280 | 240 | 4-Φ18 | 170 | 210 | 4-Φ18 | 630 | 890 |
| 27 | 100GW100-30-15 | 260 | 300 | 240 | 4-Φ18 | 170 | 210 | 4-Φ18 | 660 | 910 |
| 28 | 100GW100-35-18.5 | 260 | 300 | 240 | 4-Φ18 | 170 | 210 | 4-Φ18 | 660 | 910 |
| 29 | 125GW130-15-11 | 250 | 280 | 240 | 4-Φ18 | 200 | 240 | 8-Φ18 | 650 | 870 |
| 30 | 125GW130-20-15 | 250 | 280 | 240 | 4-Φ18 | 200 | 265 | 8-Φ18 | 650 | 920 |
| 31 | 150GW145-9-7.5 | 250 | 280 | 240 | 4-Φ18 | 225 | 265 | 8-Φ18 | 650 | 800 |
| 32 | 150GW180-15-15 | 250 | 320 | 260 | 4-Φ22 | 225 | 265 | 8-Φ18 | 690 | 950 |
| 33 | 150GW180-20-18.5 | 250 | 320 | 260 | 4-Φ22 | 225 | 265 | 8-Φ18 | 690 | 950 |
| 34 | 150GW180-25-22 | 250 | 320 | 260 | 4-Φ22 | 225 | 265 | 8-Φ18 | 690 | 970 |
| 35 | 150GW130-30-22 | 260 | 340 | 290 | 4-Φ22 | 225 | 265 | 8-Φ18 | 690 | 970 |
| 36 | 150GW130-30-30 | 260 | 340 | 290 | 4-Φ22 | 240 | 280 | 8-Φ18 | 690 | 1020 |
| 37 | 150GW200-30-37 | 260 | 340 | 290 | 4-Φ22 | 240 | 280 | 8-Φ18 | 690 | 1040 |
| 38 | 200GW300-7-11 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 900 |
| 39 | 200GW250-11-15 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 960 |
| 40 | 200GW400-10-22 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 1000 |
| 41 | 200GW400-13-30 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 1080 |
| 42 | 200GW250-15-18.5 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 960 |
| 43 | 200GW300-15-22 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 1000 |
| 44 | 200GW250-22-30 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 1080 |
| 45 | 200GW-350-25-37 | 290 | 350 | 300 | 4-Φ22 | 295 | 335 | 8-Φ18 | 800 | 1100 |
| 46 | 200GW400-30-55 | 300 | 360 | 310 | 4-Φ22 | 295 | 335 | 8-Φ18 | 810 | 1150 |

GW Installation Dimension Table

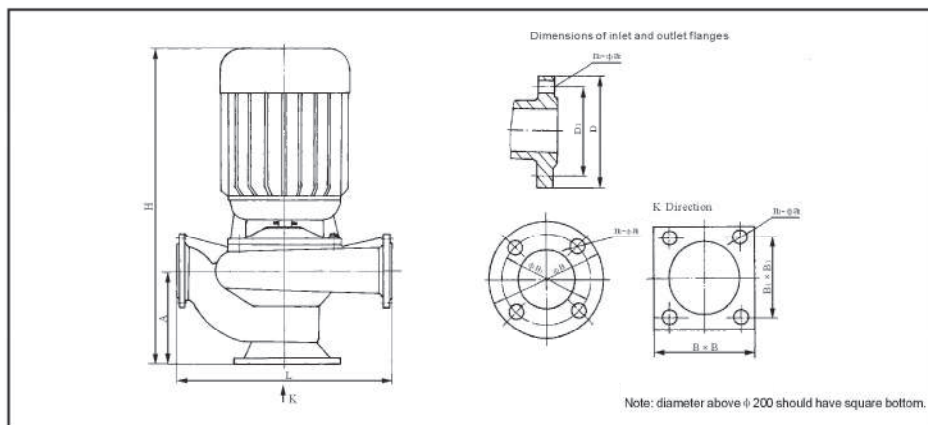
| No. | Model | A | B | B ₁ | n ₁ -Φa ₁ | D ₁ | D | n ₂ -Φa ₂ | L | H |
|-----|------------------|-----|-----|----------------|---------------------------------|----------------|-----|---------------------------------|------|------|
| 47 | 250GW600-9-30 | 350 | 380 | 320 | 4-Φ23 | 350 | 390 | 8-Φ18 | 900 | 1100 |
| 48 | 250GW600-12-37 | 350 | 380 | 320 | 4-Φ23 | 350 | 390 | 8-Φ18 | 900 | 1150 |
| 49 | 250GW600-15-45 | 350 | 380 | 320 | 4-Φ23 | 350 | 390 | 8-Φ18 | 900 | 1200 |
| 50 | 250GW600-20-55 | 350 | 380 | 320 | 4-Φ23 | 350 | 390 | 8-Φ18 | 900 | 1300 |
| 51 | 250GW600-25-75 | 350 | 450 | 320 | 4-Φ23 | 350 | 390 | 8-Φ18 | 900 | 1400 |
| 52 | 300GW800-12-45 | 350 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1200 |
| 53 | 300GW500-15-45 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1200 |
| 54 | 300GW800-15-55 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1300 |
| 55 | 300GW600-20-55 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1300 |
| 56 | 300GW800-20-75 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1380 |
| 57 | 300GW950-20-90 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1430 |
| 58 | 300GW1000-25-110 | 390 | 450 | 410 | 4-Φ23 | 395 | 440 | 12-Φ23 | 1100 | 1500 |
| 59 | 350GW1100-10-55 | 450 | 480 | 430 | 4-Φ23 | 460 | 500 | 12-Φ23 | 1250 | 1450 |
| 60 | 350GW1500-15-90 | 450 | 480 | 430 | 4-Φ23 | 460 | 500 | 12-Φ23 | 1250 | 1500 |
| 61 | 350GW1200-18-90 | 450 | 480 | 430 | 4-Φ23 | 460 | 500 | 12-Φ23 | 1250 | 1520 |
| 62 | 350GW1100-28-132 | 450 | 480 | 430 | 4-Φ23 | 460 | 500 | 12-Φ23 | 1250 | 1700 |
| 63 | 350GW1000-36-160 | 450 | 480 | 430 | 4-Φ23 | 460 | 500 | 12-Φ23 | 1250 | 1780 |
| 64 | 400GW1500-10-75 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 1600 |
| 65 | 400GW2000-15-132 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 1800 |
| 66 | 400GW1700-22-160 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 1880 |
| 67 | 400GW1500-26-160 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 1880 |
| 68 | 400GW1700-30-200 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 2000 |
| 69 | 400GW1800-32-250 | 500 | 520 | 470 | 4-Φ33 | 560 | 560 | 16-Φ26 | 1380 | 2100 |
| 70 | 500GW2500-10-110 | 600 | 700 | 620 | 4-Φ33 | 670 | 670 | 20-Φ26 | 1600 | 2150 |
| 71 | 500GW2600-15-160 | 600 | 700 | 620 | 4-Φ33 | 670 | 670 | 20-Φ26 | 1600 | 2150 |
| 72 | 500GW2400-22-220 | 600 | 700 | 620 | 4-Φ33 | 670 | 670 | 20-Φ26 | 1600 | 2300 |
| 73 | 500GW2600-24-250 | 600 | 700 | 620 | 4-Φ33 | 670 | 670 | 20-Φ26 | 1600 | 2300 |

Installation instructions

1. Pump and pipeline should have their own supporting parts, and the weight of pipeline should not act on the pump.
2. The discharge line should be installed outside the gate valve if a check valve is installed.
3. For the convenience of maintenance and safety of use, install a regulating valve in each of the import and export pipeline of the pump and a pressure gauge near the pump outlet to ensure the operation of the pump in the rated head and flow range, to ensure the normal operation of the pump and improve the pump's service life.
4. Tighten the ground bolts when installing the pump to avoid the impact of vibration on the pump performance when starting.
5. When conveying high temperature liquid, in order not to make the pump bear the thermal deformation of the pipeline, the foot bolt of the pump seat should not be fixed. When the pipeline system in the thermal expansion and contraction, so that the pump can move with the pipeline.
6. The pump import and export connection flange is designed according to GB4216-84 standard, and the pipeline flange should be matched with the same specification.
7. After the pump is installed, move the pump shaft, the impeller should have no friction sound or stuck phenomenon, otherwise the pump should be disassembled for inspection and maintenance.
8. Check the fastening of the pump and motor and any damage before installation.

Maintenance

1. The electric pump should be managed and used by a person, and the insulation resistance should be checked regularly to see if it is normal.
2. The sealing ring between the impeller and the pump body has a sealing function, such as sealing ring damage will directly affect the performance of the pump, must be replaced in a timely manner. It must be replaced in time.
3. When the pump is not used for a long time, the liquid in the pump cavity should be drained to prevent thermal expansion and cold shrinkage damage to the internal parts of the pump.



Usage and precautions

1. Before using the pump, carefully check whether the fasteners are loose or missing, and whether the pump has deformed or damaged during transportation, storage, and installation.
2. After the pump is started, the rotation direction should be clockwise when viewed from the inlet, if the electric pump runs in reverse, just swap the position of any two phase wires in the cable.
3. The electric pump should not operate for a long time under low head conditions (the head should not be less than 60% of the rated head). It is best to control it within the recommended head range to prevent the water pump from being burned due to overload.
4. The pump should not operate under cavitation conditions in order to ensure a longer service life. It is strictly prohibited to run the water pump dry, otherwise, the mechanical seal may be damaged.
5. If the pump parts are made of cast iron, during outdoor installation in winter, pay attention to prevent them from being broken, and keep them warm when the temperature is particularly low.

| Failure | Reason Analysis | Checking Method |
|--------------------------------------|--|--|
| Insufficient flow or no water output | <ol style="list-style-type: none"> 1、 Impeller rotation error 2、 Whether the valve is open and intact 3、 Pipe impeller is blocked 4、 The head is too high 5、 Density of pumping medium is high 6、 The seal ring is damaged | <ol style="list-style-type: none"> 1、 Adjust the direction of impeller rotation 2、 Check, repair and exclude 3、 Cleaning debris 4、 Change the pump or reduce the head 5、 Flush with water to reduce the concentration 6、 Replacement |
| Unstable Running | <ol style="list-style-type: none"> 1、 Impeller unbalance 2、 Bearing damage | <ol style="list-style-type: none"> 1、 Send to the manufacturer for exchange or correction 2、 Replacement |
| Pump won't start | <ol style="list-style-type: none"> 1、 Lack of phase 2、 Impeller stuck 3、 Stator winding burned out | <ol style="list-style-type: none"> 1、 Check the electrical appliances and circuits for repair 2、 Exclude debris 3、 Repair and replace windings |
| Excessive current | <ol style="list-style-type: none"> 1、 Low working voltage 2、 Pipe and impeller are blocked 3、 High density or viscosity of pumped liquid 4、 The use of head is too low | <ol style="list-style-type: none"> 1、 Adjust the working voltage 2、 Clean up the pipeline, impeller blockage 3、 Change the density or viscosity 4、 Reduce the flow, increase the head |
| Insufficient pressure | <ol style="list-style-type: none"> 1、 Damaged or leaking mechanical seal 2、 Cable broken 3、 Seal ring worn or damaged | <ol style="list-style-type: none"> 1、 Replacement 2、 Replacement 3、 Replacement |

Overview

LW non-clogging vertical sewage pump is a new generation of pump based on the introduction of advanced technology at home and abroad, combined with the characteristics of domestic pump use. It has the characteristics of remarkable energy-saving effect, anti-winding and non-clogging. In the discharge of solid particles and long fiber garbage, it has a unique effect.

This series pump adopts unique impeller structure and new mechanical seal, which can effectively convey media containing solids and long fibers. Compared with the traditional impeller, the impeller of this pump adopts the form of single or double flow channel. It is similar to an elbow with the same cross-sectional size, which has very good over-flow, with a reasonable worm chamber, which makes the pump have a high efficiency, and the impeller is balanced, so that the pump is vibration-free in operation.

The hydraulic performance of the pump is advanced and mature, and the performance indexes of the product have reached the relevant standards. The product has been put on the market with its unique efficacy, reliable performance and stable quality, which is welcomed and praised by the majority of users.

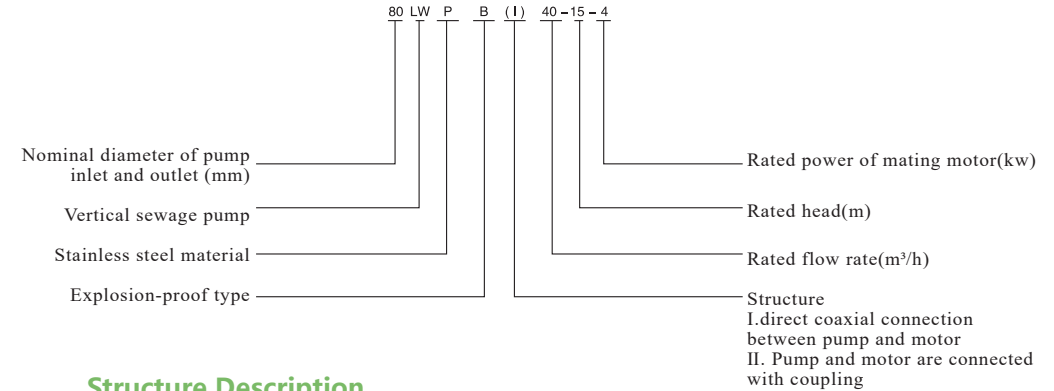
Product characteristics

1. The use of large flow channel anti-clogging hydraulic components design, greatly improve the dirt through the capacity, can effectively pass the pump diameter it can effectively pass 5 times of fiber material and solid particles with diameter of about 50% of pump diameter.
2. Rational design, reasonable supporting motor, high efficiency, energy-saving effect is remarkable.
3. The mechanical seal adopts single end seal and the material is hard tungsten carbide, which is durable, wear-resistant and corrosion-resistant. It can make the pump run continuously for more than 8000 hours safely.
4. The LW(I)-type pump is directly connected with the motor, which is an electromechanical integration product with compact structure and stable performance.
5. Advanced hydraulic performance, high efficiency, low noise operation.
6. With the addition of protective cover at the end of the motor blade, the whole machine works directly outside, no need for machine room, which can save a lot of infrastructure costs.
7. The pump and the motor are the whole structure, so there is no need for correction when installing.

Application

1. Discharge of seriously polluted wastewater from factory.
2. Drainage system of urban sewage treatment plant.
3. Wastewater drainage stations in residential areas.
4. Drainage station of human defense system.
5. Sewage discharge of hospitals and hotels.
6. Municipal projects, construction sites.
7. Exploration, mining supporting attachments.
8. Rural biogas ponds farmland irrigation.
9. Water supply device of water supply plant.

Model Definition

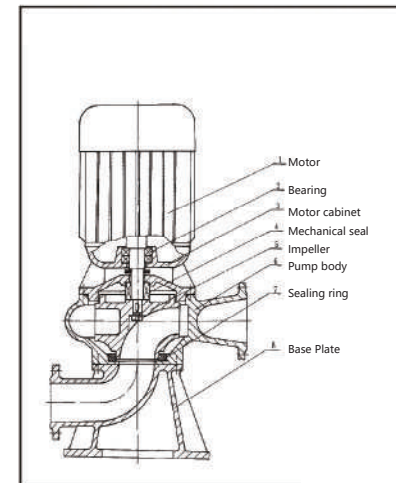


Structure Description

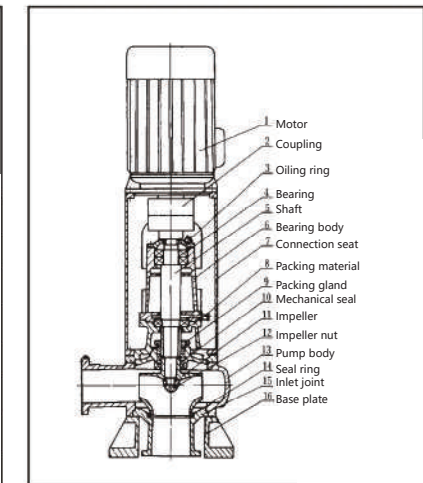
LW non-clogging vertical sewage pump is a single-suction worm shell pump, which is equipped with non-clogging anti-winding type single (double) large flow channel impeller, with good passing capacity.

This series of pump has two structural forms, one is the direct coaxial connection between motor and pump; the other is the coupling connection, and the motor adopts the standard vertical motor. The structure diagram of the standard vertical motor is as follows, each structure form has two types of base connection, one is the inlet horizontal suction, with a corner function, according to the use of requirements, import and export placement angle can be 0° 90° 180° 270° to facilitate pipeline connection; the second is the inlet axial suction, convenient for vertical installation.

LW (I) Structure



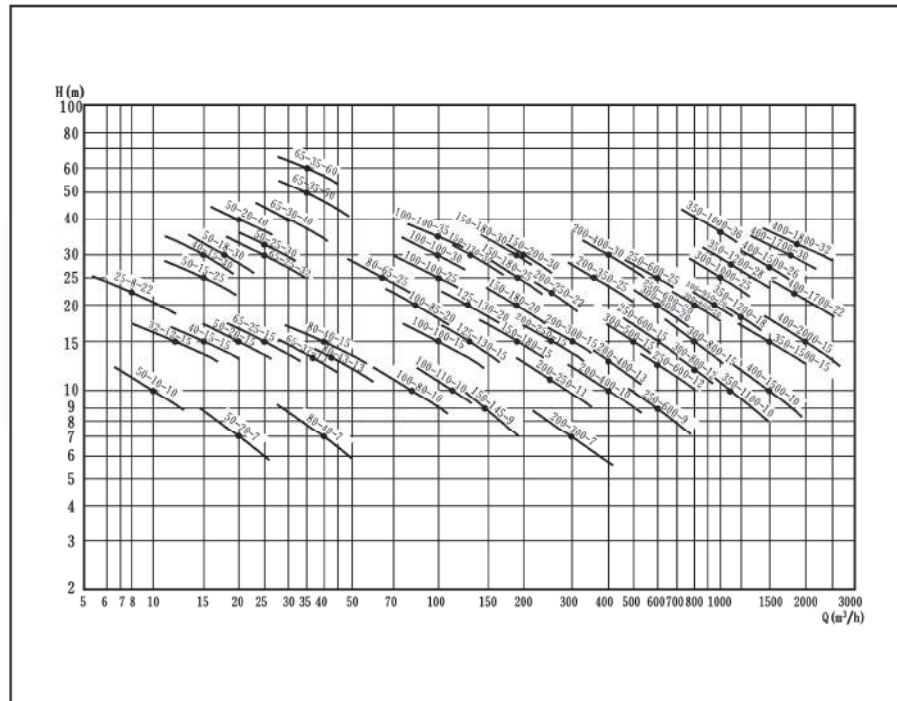
LW (II) Structure



Working Conditions

1. The medium temperature should not exceed 60°C, the weight should be 1.0~1.3kg/dm³, and the PH value should be within 5~9.
2. The pump and motor are integral structure, so it is required that the working environment temperature of the pump shall not exceed 40°C, and the relative humidity shall not exceed 95%.
3. In general, the pump must work within the range of head, to ensure that the motor is not overloaded, if you need to use in the full range of head, should be separately indicated when ordering, so that the manufacturer manufacturing.
4. The pump motor current must not exceed the rated current of the motor during operation.

LW Spectral spectrum



LW Performance Table

| No. | Model | Diameter mm | Rated flow (m ³ /h) | Head (m) | Power (kw) | RPM (r/min) | η (%) | Head range (m) |
|-----|------------------|-------------|--------------------------------|----------|------------|-------------|-------|----------------|
| 1 | 25LW8-22-1.1 | 25 | 8 | 22 | 1.1 | 2900 | 38.5 | 18-22 |
| 2 | 32LW12-15-1.1 | 32 | 12 | 15 | 1.1 | 2900 | 40 | 12-15 |
| 3 | 40LW15-15-1.5 | 40 | 15 | 15 | 1.5 | 2900 | 45.1 | 12-15 |
| 4 | 40LW15-30-2.2 | 40 | 15 | 30 | 2.2 | 2900 | 48 | 26-30 |
| 5 | 50LLW20-7-0.75 | 50 | 20 | 7 | 0.75 | 2900 | 54 | 4-7 |
| 6 | 50LLW10-10-0.75 | 50 | 10 | 10 | 0.75 | 2900 | 56 | 6-10 |
| 7 | 50LW20-15-1.5 | 50 | 20 | 15 | 1.5 | 2900 | 55 | 12-15 |
| 8 | 50LW15-25-2.2 | 50 | 15 | 25 | 2.2 | 2900 | 56 | 22-25 |
| 9 | 50LW18-30-3 | 50 | 18 | 30 | 3 | 2900 | 58 | 27-30 |
| 10 | 50LW25-23-5.5 | 50 | 25 | 32 | 5.5 | 2900 | 53 | 28-32 |
| 11 | 50LW20-40-7.5 | 50 | 20 | 40 | 7.5 | 2900 | 55 | 37-40 |
| 12 | 65LW25-15-2.2 | 65 | 25 | 15 | 2.2 | 2900 | 52 | 12-15 |
| 13 | 65LW37-13-3 | 65 | 37 | 13 | 3 | 2900 | 55 | 9-13 |
| 14 | 65LW37-13-4 | 65 | 25 | 30 | 4 | 2900 | 58 | 26-30 |
| 15 | 65LW30-40-7.5 | 65 | 30 | 40 | 7.5 | 2900 | 56 | 37-40 |
| 16 | 65LW35-50-11 | 65 | 35 | 50 | 11 | 2900 | 60 | 45-50 |
| 17 | 65LW35-60-15 | 65 | 35 | 60 | 15 | 2900 | 63 | 55-60 |
| 18 | 80LW40-7-2.2 | 80 | 40 | 7 | 2.2 | 1450 | 52 | 4-7 |
| 19 | 80LW43-13-3 | 80 | 43 | 13 | 3 | 2900 | 50 | 10-13 |
| 20 | 80LW40-15-4 | 80 | 40 | 15 | 4 | 2900 | 57 | 12-15 |
| 21 | 80LW65-25-7.5 | 80 | 65 | 25 | 7.5 | 2900 | 56 | 20-25 |
| 22 | 100LW80-10-4 | 100 | 80 | 10 | 4 | 1450 | 62 | 7-10 |
| 23 | 100LW110-10-5.5 | 100 | 110 | 10 | 5.5 | 1450 | 66 | 7-10 |
| 24 | 100L100-15-7.5 | 100 | 100 | 15 | 7.5 | 1450 | 67 | 12-15 |
| 25 | 100LW85-20-7.5 | 100 | 85 | 20 | 7.5 | 1450 | 68 | 17-20 |
| 26 | 100LW100-25-11 | 100 | 100 | 25 | 11 | 1450 | 65 | 22-25 |
| 27 | 100LW100-30-15 | 100 | 100 | 30 | 15 | 1450 | 66 | 26-30 |
| 28 | 100LW100-35-18.5 | 100 | 100 | 35 | 18.5 | 1450 | 65 | 32-35 |
| 29 | 125LW130-15-11 | 125 | 130 | 15 | 11 | 1450 | 62 | 12-15 |
| 30 | 125LW130-20-15 | 125 | 130 | 20 | 15 | 1450 | 63 | 17-20 |
| 31 | 150LW145-9-7.5 | 150 | 145 | 9 | 7.5 | 1450 | 63 | 6-9 |
| 32 | 150LW180-15-15 | 150 | 180 | 15 | 15 | 1450 | 65 | 10-13 |
| 33 | 150LW180-20-18.5 | 150 | 180 | 20 | 18.5 | 1450 | 75 | 17-20 |
| 34 | 150LW180-25-22 | 150 | 180 | 25 | 22 | 1450 | 76 | 22-25 |
| 35 | 150LW130-30-22 | 150 | 130 | 30 | 22 | 1450 | 75 | 27-30 |

LW Performance Table

| No. | Model | Diameter mm | Rated flow (m ³ /h) | Head (m) | Power (kw) | RPM (r/min) | η (%) | Head range (m) |
|-----|------------------|-------------|--------------------------------|----------|------------|-------------|-------|----------------|
| 36 | 150LW180-30-30 | 150 | 180 | 30 | 30 | 1450 | 73 | 27-30 |
| 37 | 150LW200-30-37 | 150 | 200 | 30 | 37 | 1450 | 70 | 27-30 |
| 38 | 200LW300-7-11 | 200 | 300 | 7 | 11 | 970 | 73 | 4-7 |
| 39 | 200LW250-11-15 | 200 | 250 | 11 | 15 | 970 | 74 | 7-11 |
| 40 | 200LW400-10-22 | 200 | 400 | 10 | 22 | 1450 | 76 | 6-10 |
| 41 | 200LW400-13-30 | 200 | 400 | 13 | 30 | 1450 | 73 | 10-13 |
| 42 | 200LW250-15-18.5 | 200 | 250 | 15 | 18.5 | 1450 | 72 | 12-15 |
| 43 | 200LW300-15-22 | 200 | 300 | 15 | 22 | 1450 | 73 | 12-15 |
| 44 | 200LW250-22-30 | 200 | 250 | 22 | 30 | 1450 | 71 | 20-22 |
| 45 | 200LW350-25-37 | 200 | 350 | 25 | 37 | 1450 | 75 | 22-25 |
| 46 | 200LW400-30-55 | 200 | 400 | 30 | 55 | 1450 | 70 | 27-30 |
| 47 | 250LW600-9-30 | 250 | 600 | 9 | 30 | 970 | 74 | 5-9 |
| 48 | 250LW600-12-37 | 250 | 600 | 12 | 37 | 1450 | 78 | 8-12 |
| 49 | 250LW600-15-45 | 250 | 600 | 15 | 45 | 1450 | 75 | 7-15 |
| 50 | 250LW600-20-55 | 250 | 600 | 20 | 55 | 1450 | 73 | 17-20 |
| 51 | 250LW600-25-75 | 250 | 600 | 25 | 75 | 1450 | 73 | 22-25 |
| 52 | 300LW800-12-45 | 300 | 800 | 12 | 45 | 970 | 76 | 8-12 |
| 53 | 300LW500-15-45 | 300 | 500 | 15 | 45 | 970 | 70 | 11-15 |
| 54 | 300LW800-15-55 | 300 | 800 | 15 | 55 | 970 | 73 | 12-15 |
| 55 | 300LW600-20-55 | 300 | 600 | 20 | 55 | 970 | 75 | 17-20 |
| 56 | 300LW800-20-75 | 300 | 800 | 20 | 75 | 970 | 78 | 17-20 |
| 57 | 300LW950-20-90 | 300 | 950 | 20 | 90 | 970 | 80 | 17-20 |
| 58 | 300LW1000-25-110 | 300 | 1000 | 25 | 110 | 970 | 82 | 22-25 |
| 59 | 350LW1100-10-55 | 350 | 1100 | 10 | 55 | 970 | 84.5 | 6-10 |
| 60 | 350LW1500-15-90 | 350 | 1500 | 15 | 90 | 970 | 82.5 | 9-15 |
| 61 | 350LW1200-18-90 | 350 | 1200 | 18 | 90 | 970 | 83.1 | 15-18 |
| 62 | 350LW1100-28-132 | 350 | 1100 | 28 | 132 | 720 | 83.2 | 25-28 |
| 63 | 350LW1000-36-160 | 350 | 1000 | 36 | 160 | 720 | 78.5 | 32-36 |
| 64 | 400LW1500-10-75 | 400 | 1500 | 10 | 75 | 970 | 82.1 | 6-10 |
| 65 | 400LW2000-15-132 | 400 | 2000 | 15 | 132 | 720 | 85.5 | 12-15 |
| 66 | 400LW1700-22-160 | 400 | 1700 | 22 | 160 | 720 | 82.1 | 20-22 |
| 67 | 400LW1500-26-160 | 400 | 1500 | 26 | 160 | 720 | 83.5 | 22-26 |
| 68 | 400LW1700-30-200 | 400 | 1700 | 30 | 200 | 720 | 83.5 | 27-30 |
| 69 | 400LW1800-32-250 | 400 | 1800 | 32 | 250 | 720 | 82.1 | 30-32 |
| 70 | 500LW2500-10-110 | 500 | 2500 | 10 | 110 | 720 | 82 | 6-10 |
| 71 | 500LW2600-15-160 | 500 | 2600 | 15 | 160 | 720 | 83 | 10-15 |
| 72 | 500LW2400-22-220 | 500 | 2400 | 22 | 220 | 720 | 84 | 20-22 |
| 73 | 500LW2600-24-250 | 500 | 2600 | 24 | 250 | 720 | 82 | 21-24 |

LW (Imported axial inhalation type) Installation Dimension Table

| No. | Model | L ₁ | L ₂ | H ₁ | H ₂ | D | D ₁ | n-Φa | B×B | B ₁ ×B ₁ | n ₁ -Φa ₁ | H |
|-----|------------------|----------------|----------------|----------------|----------------|-----|----------------|-------|---------|--------------------------------|---------------------------------|------|
| 1 | 25LW8-22-1.1 | 160 | 130 | 110 | 170 | 120 | 90 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 600 |
| 2 | 32LW12-15-1.1 | 160 | 130 | 110 | 170 | 120 | 90 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 600 |
| 3 | 40LW15-15-1.5 | 160 | 150 | 110 | 180 | 130 | 100 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 620 |
| 4 | 40LW15-30-2.2 | 160 | 150 | 110 | 180 | 130 | 100 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 630 |
| 5 | 50LW20-7-0.7 | 160 | 150 | 110 | 185 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 660 |
| 6 | 550LW10-10-0.7 | 160 | 150 | 110 | 185 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 660 |
| 7 | 550LW20-15-1.5 | 160 | 140 | 110 | 180 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 630 |
| 8 | 50LW15-25-2.2 | 160 | 140 | 110 | 180 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 650 |
| 9 | 50LW18-30-3 | 160 | 150 | 110 | 185 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 720 |
| 10 | 50LW25-32-5.5 | 160 | 180 | 110 | 215 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 850 |
| 11 | 50LW20-40-7.5 | 160 | 180 | 110 | 215 | 140 | 110 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 900 |
| 12 | 65LW25-15-2.2 | 175 | 150 | 120 | 195 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 700 |
| 13 | 65LW37-13-3 | 175 | 150 | 120 | 195 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 760 |
| 14 | 65LW25-30-4 | 175 | 160 | 120 | 195 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 822 |
| 15 | 65LW30-40-7.5 | 175 | 180 | 120 | 275 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 860 |
| 16 | 65LW35-50-11 | 175 | 180 | 120 | 235 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 950 |
| 17 | 65LW35-60-15 | 175 | 180 | 120 | 235 | 160 | 130 | 4-Φ14 | 305×305 | 265×265 | 4-Φ14 | 1000 |
| 18 | 80LW40-7-2.2 | 200 | 200 | 150 | 225 | 190 | 160 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 845 |
| 19 | 80LW43-13-3 | 200 | 170 | 150 | 225 | 190 | 160 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 920 |
| 20 | 80LW40-15-4 | 200 | 170 | 150 | 225 | 190 | 160 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 950 |
| 21 | 80LW65-25-7.5 | 200 | 200 | 150 | 225 | 190 | 160 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 900 |
| 22 | 100LW80-10-4 | 220 | 255 | 200 | 225 | 190 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 920 |
| 23 | 100LW110-10-5.5 | 220 | 255 | 200 | 235 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 950 |
| 24 | 100LW100-15-7.5 | 220 | 255 | 200 | 235 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 980 |
| 25 | 100LW85-20-7.5 | 220 | 255 | 200 | 235 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 980 |
| 26 | 100LW100-25-11 | 220 | 285 | 200 | 260 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 1020 |
| 27 | 100LW100-30-15 | 220 | 320 | 200 | 275 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 1100 |
| 28 | 100LW100-35-18.5 | 220 | 320 | 200 | 275 | 210 | 170 | 4-Φ18 | 390×390 | 340×340 | 4-Φ18 | 1150 |
| 29 | 125LW130-15-11 | 270 | 300 | 200 | 305 | 240 | 200 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1000 |
| 30 | 125LW130-20-15 | 270 | 300 | 200 | 305 | 265 | 200 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1050 |
| 31 | 150LW145-9-7.5 | 270 | 300 | 200 | 305 | 265 | 225 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1000 |
| 32 | 150LW180-15-15 | 270 | 300 | 200 | 305 | 265 | 225 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1450 |
| 33 | 150LW180-20-18.5 | 270 | 300 | 200 | 305 | 265 | 225 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1500 |
| 34 | 150LW180-25-22 | 270 | 300 | 200 | 305 | 265 | 225 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1520 |
| 35 | 150LW130-30-22 | 270 | 340 | 200 | 330 | 265 | 225 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1520 |
| 36 | 150LW180-30-30 | 270 | 340 | 200 | 330 | 280 | 240 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1600 |
| 37 | 150LW200-30-37 | 270 | 340 | 200 | 330 | 280 | 240 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1630 |
| 38 | 200LW300-7-11 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1300 |
| 39 | 200LW250-11-15 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1360 |
| 40 | 200LW 400-10-22 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1450 |
| 41 | 200LW 400-13-30 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1550 |
| 42 | 200LW250-15-18.5 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1360 |
| 43 | 200LW300-15-22 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1450 |
| 44 | 200LW250-22-30 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1550 |
| 45 | 200LW350-25-37 | 300 | 360 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1650 |
| 46 | 200LW400-30-55 | 300 | 380 | 230 | 380 | 335 | 295 | 8-Φ18 | 350×350 | 480×480 | 4-Φ23 | 1700 |

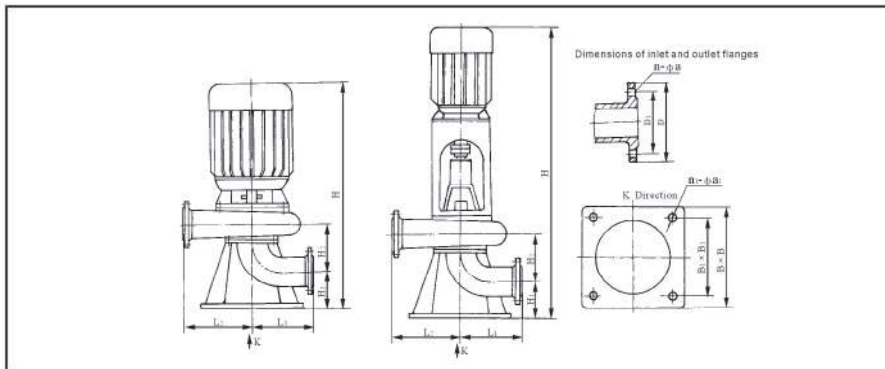
LW (Imported axial inhalation type) Installation Dimension Table

| No. | Model | L ₁ | L ₂ | H ₁ | H ₂ | D | D ₁ | n-Φ _a | B×B | B ₁ ×B ₁ | n ₁ -Φ _{a₁} | H |
|-----|------------------|----------------|----------------|----------------|----------------|-----|----------------|------------------|-----------|--------------------------------|--|------|
| 47 | 250LW600-9-30 | 330 | 400 | 245 | 480 | 390 | 350 | 12-Φ23 | 600×600 | 500×500 | 4-Φ23 | 1500 |
| 48 | 250LW600-12-37 | 330 | 400 | 245 | 480 | 390 | 350 | 12-Φ23 | 600×600 | 500×500 | 4-Φ23 | 1580 |
| 49 | 250LW600-15-45 | 330 | 400 | 245 | 480 | 390 | 350 | 12-Φ23 | 600×600 | 500×500 | 4-Φ23 | 1630 |
| 50 | 250LW600-20-55 | 330 | 400 | 245 | 480 | 390 | 350 | 12-Φ23 | 600×600 | 500×500 | 4-Φ23 | 1700 |
| 51 | 250LW600-25-75 | 330 | 400 | 245 | 480 | 390 | 350 | 12-Φ23 | 720×720 | 500×500 | 4-Φ23 | 1800 |
| 52 | 300LW800-12-45 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1650 |
| 53 | 300LW500-15-45 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1650 |
| 54 | 300LW800-15-55 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1750 |
| 55 | 300LW600-20-55 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1750 |
| 56 | 300LW800-20-75 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1850 |
| 57 | 300LW950-20-90 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 1920 |
| 58 | 300LW1000-25-110 | 450 | 500 | 300 | 520 | 440 | 395 | 12-Φ23 | 720×720 | 620×620 | 4-Φ23 | 2000 |
| 59 | 350LW1100-10-55 | 500 | 350 | 350 | 600 | 440 | 395 | 12-Φ23 | 820×820 | 700×700 | 4-Φ26 | 1900 |
| 60 | 350LW1500-15-90 | 500 | 350 | 350 | 600 | 500 | 460 | 12-Φ23 | 820×820 | 700×700 | 4-Φ26 | 1950 |
| 61 | 350LW1200-18-90 | 500 | 350 | 350 | 600 | 500 | 460 | 12-Φ23 | 820×820 | 700×700 | 4-Φ26 | 2000 |
| 62 | 350LW1100-28-132 | 500 | 350 | 350 | 600 | 500 | 460 | 12-Φ23 | 820×820 | 700×700 | 4-Φ26 | 2200 |
| 63 | 350LW1000-36-160 | 500 | 350 | 350 | 600 | 500 | 460 | 12-Φ23 | 820×820 | 700×700 | 4-Φ26 | 2300 |
| 64 | 400LW1500-10-75 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2200 |
| 65 | 400LW2000-15-132 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2400 |
| 66 | 400LW1700-22-160 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2500 |
| 67 | 400LW1500-26-160 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2500 |
| 68 | 400LW1700-30-200 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2700 |
| 69 | 400LW1800-32-250 | 700 | 420 | 420 | 680 | 560 | 515 | 16-Φ26 | 970×970 | 875×875 | 4-Φ26 | 2800 |
| 70 | 500LW2500-10-110 | 750 | 420 | 420 | 800 | 670 | 620 | 20-Φ26 | 1210×1210 | 1080×1080 | 4-Φ26 | 2900 |
| 71 | 500LW2600-15-160 | 750 | 420 | 420 | 800 | 670 | 620 | 20-Φ26 | 1210×1210 | 1080×1080 | 4-Φ26 | 2900 |
| 72 | 500LW2400-22-220 | 750 | 420 | 420 | 800 | 670 | 620 | 20-Φ26 | 1210×1210 | 1080×1080 | 4-Φ26 | 3100 |
| 73 | 500LW2600-24-250 | 750 | 420 | 420 | 800 | 670 | 620 | 20-Φ26 | 1210×1210 | 1080×1080 | 4-Φ26 | 3100 |

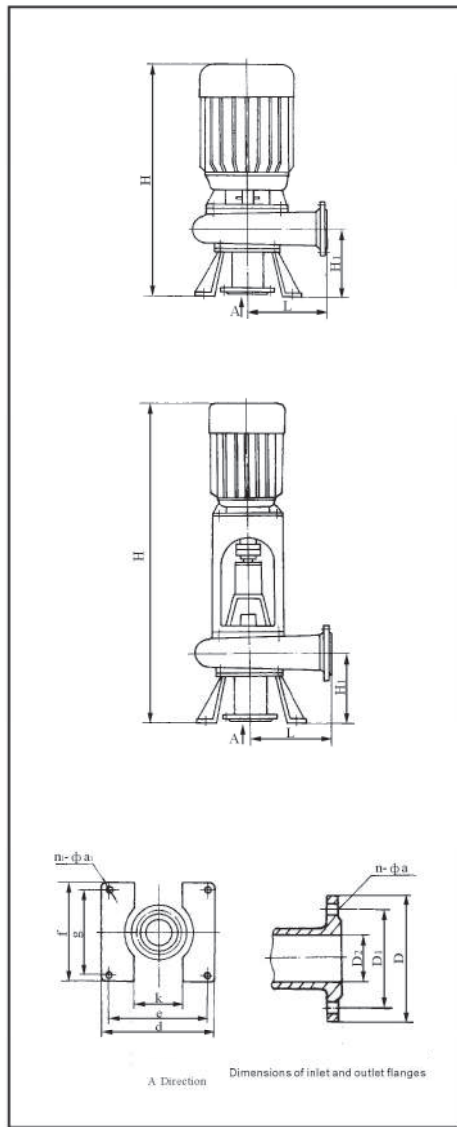
Note: The above "H" is the size of LW(I) pump, if you need "H" size of LW(II) pump, please ask us for it separately.

LW (Imported axial inhalation type) Installation Dimension Table

| No. | Model | D ₂ | D ₁ | D | n-Φ _a | H | H ₁ | L |
|-----|------------------|----------------|----------------|-----|------------------|------|----------------|-----|
| 1 | 100LW80-10-4 | 100 | 170 | 210 | 4-Φ18 | 750 | 280 | 255 |
| 2 | 100LW110-10-5.5 | 100 | 170 | 210 | 4-Φ18 | 770 | 285 | 255 |
| 3 | 100LW100-15-7.5 | 100 | 170 | 210 | 4-Φ18 | 800 | 285 | 255 |
| 4 | 100LW85-20-7.5 | 100 | 170 | 210 | 4-Φ18 | 800 | 285 | 255 |
| 5 | 100LW100-25-11 | 100 | 170 | 210 | 4-Φ18 | 840 | 285 | 285 |
| 6 | 100LW100-30-15 | 100 | 170 | 210 | 4-Φ18 | 970 | 295 | 320 |
| 7 | 100LW100-35-4.5 | 100 | 170 | 210 | 4-Φ18 | 970 | 295 | 320 |
| 8 | 125LW130-15-11 | 125 | 200 | 240 | 8-Φ18 | 900 | 375 | 300 |
| 9 | 125LW130-20-15 | 125 | 200 | 240 | 8-Φ18 | 950 | 375 | 300 |
| 10 | 150LW145-9-7.5 | 150 | 225 | 265 | 8-Φ18 | 870 | 375 | 300 |
| 11 | 150LW180-15-15 | 150 | 225 | 265 | 8-Φ18 | 1350 | 385 | 300 |
| 12 | 150LW180-20-18.5 | 150 | 225 | 265 | 8-Φ18 | 1400 | 385 | 300 |
| 13 | 150LW180-25-22 | 150 | 225 | 265 | 8-Φ18 | 1420 | 385 | 340 |
| 14 | 150LW130-30-22 | 150 | 225 | 265 | 8-Φ18 | 1500 | 415 | 340 |
| 15 | 150LW150-30-30 | 150 | 240 | 280 | 8-Φ18 | 1530 | 415 | 340 |
| 16 | 150LW200-30-37 | 150 | 240 | 280 | 8-Φ18 | 1600 | 415 | 340 |
| 17 | 200LW300-7-11 | 200 | 295 | 335 | 8-Φ18 | 1150 | 400 | 360 |
| 18 | 200LW250-11-15 | 200 | 295 | 335 | 8-Φ18 | 1220 | 400 | 360 |
| 19 | 210LW400-10-22 | 200 | 295 | 335 | 8-Φ18 | 1300 | 400 | 360 |
| 20 | 200LW400-13-30 | 200 | 295 | 335 | 8-Φ18 | 1400 | 400 | 360 |
| 21 | 200LW250-15-18.5 | 200 | 295 | 335 | 8-Φ18 | 1300 | 400 | 360 |
| 22 | 200LW300-15-22 | 200 | 295 | 335 | 8-Φ18 | 1300 | 400 | 360 |
| 23 | 200LW250-22-30 | 200 | 295 | 335 | 8-Φ18 | 1400 | 400 | 360 |
| 24 | 200LW350-25-37 | 200 | 295 | 335 | 8-Φ18 | 1450 | 400 | 360 |
| 25 | 200LW400-30-55 | 200 | 295 | 335 | 8-Φ18 | 1550 | 415 | 380 |
| 26 | 250LW600-9-30 | 250 | 350 | 390 | 12-Φ23 | 1380 | 135 | 400 |
| 27 | 250LW600-12-37 | 250 | 350 | 390 | 12-Φ23 | 1380 | 135 | 400 |
| 28 | 250LW600-15-45 | 250 | 350 | 390 | 12-Φ23 | 1410 | 135 | 400 |
| 29 | 250LW600-20-55 | 250 | 350 | 390 | 12-Φ23 | 1500 | 135 | 400 |
| 30 | 250LW600-25-75 | 250 | 350 | 390 | 12-Φ23 | 1600 | 135 | 400 |
| 31 | 300LW800-12-45 | 300 | 395 | 440 | 12-Φ23 | 1430 | 480 | 400 |
| 32 | 300LW500-15-45 | 300 | 395 | 440 | 12-Φ23 | 1450 | 480 | 500 |
| 33 | 300LW800-15-55 | 300 | 395 | 440 | 12-Φ23 | 1550 | 480 | 500 |
| 34 | 300LW600-20-55 | 300 | 395 | 440 | 12-Φ23 | 1550 | 480 | 500 |
| 35 | 300LW800-20-75 | 300 | 395 | 440 | 12-Φ23 | 1650 | 480 | 500 |
| 36 | 300LW950-20-90 | 300 | 395 | 440 | 12-Φ23 | 1720 | 480 | 500 |
| 37 | 300LW1000-25-110 | 300 | 395 | 440 | 12-Φ23 | 1800 | 480 | 500 |
| 38 | 350LW1100-10-55 | 350 | 460 | 500 | 12-Φ23 | 1700 | 520 | 520 |
| 39 | 350LW1500-15-90 | 350 | 460 | 500 | 12-Φ23 | 1750 | 520 | 520 |
| 40 | 350LW1200-18-90 | 350 | 460 | 500 | 12-Φ23 | 1800 | 520 | 520 |
| 41 | 350LW1100-28-132 | 350 | 460 | 500 | 12-Φ23 | 2000 | 520 | 520 |
| 42 | 350LW1000-36-160 | 350 | 460 | 500 | 12-Φ23 | 2100 | 520 | 520 |
| 43 | 400LW1500-10-75 | 400 | 515 | 569 | 16-Φ26 | 2000 | 550 | 640 |
| 44 | 400LW2000-15-132 | 400 | 515 | 569 | 16-Φ26 | 2200 | 550 | 640 |
| 45 | 400LW1700-22-160 | 400 | 515 | 569 | 16-Φ26 | 2300 | 550 | 640 |
| 46 | 400LW1500-26-160 | 400 | 515 | 569 | 16-Φ26 | 2300 | 550 | 640 |
| 47 | 400LW1700-30-200 | 400 | 515 | 569 | 16-Φ26 | 2500 | 550 | 640 |
| 48 | 400LW1800-32-250 | 400 | 515 | 569 | 16-Φ26 | 2600 | 550 | 640 |
| 49 | 500LW2500-10-110 | 500 | 620 | 670 | 20-Φ26 | 2600 | 600 | 700 |
| 50 | 500LW2600-15-160 | 500 | 620 | 670 | 20-Φ26 | 2600 | 600 | 700 |
| 51 | 500LW2400-22-220 | 500 | 620 | 670 | 20-Φ26 | 2800 | 600 | 750 |
| 52 | 500LW2600-24-250 | 500 | 620 | 670 | 20-Φ26 | 2800 | 600 | 750 |



| d | e | f | g | k | n ₁ -Φa ₁ |
|------|------|------|------|-----|---------------------------------|
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 570 | 510 | 510 | 420 | 250 | 4-Φ23 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 640 | 565 | 640 | 565 | 360 | 4-Φ27 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 680 | 580 | 680 | 580 | 360 | 4-Φ33 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 760 | 680 | 760 | 680 | 380 | 4-Φ40 |
| 950 | 850 | 950 | 850 | 400 | 4-Φ40 |
| 950 | 850 | 950 | 850 | 400 | 4-Φ40 |
| 950 | 850 | 950 | 850 | 400 | 4-Φ40 |
| 950 | 850 | 950 | 850 | 400 | 4-Φ40 |
| 950 | 850 | 950 | 850 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 875 | 745 | 970 | 870 | 400 | 4-Φ40 |
| 1160 | 1030 | 1210 | 1080 | 600 | 6-Φ40 |
| 1160 | 1030 | 1210 | 1080 | 600 | 6-Φ40 |
| 1160 | 1030 | 1210 | 1080 | 600 | 6-Φ40 |
| 1160 | 1030 | 1210 | 1080 | 600 | 6-Φ40 |



Note: The above "H" is the size of LW(I) pump, if you need "H" size of LW(II) pump, please ask us for it separately.

Installation Instructions

- 1、 The pump and the pipeline should have their own support parts, and the weight of the pipeline should not be applied to the pump.
- 2、 For the convenience of maintenance and safety of use, install a regulating valve in each of the pump's import and export pipeline and a pressure gauge near the pump outlet to ensure that the pump operates within the rated head and flow rate to ensure the normal operation of the pump and improve the service life of the pump.
- 3、 When installing the pump must tighten the foot bolt, so as to avoid the impact of vibration on the pump performance when starting.
- 4、 The fastening of the pump and motor should be checked before installation and there is no damage.
- 5、 In order not to make the pump bear the thermal deformation of the pipeline when conveying high temperature liquid, the foot bolt of the pump seat should not be fixed, so that the pump can move together with the pipeline when the pipeline system is in thermal expansion and contraction.

Maintenance

- 1、 The pump should be managed and used by a person, and regularly check whether the insulation resistance is normal.
- 2、 The sealing ring between impeller and pump body has sealing function, if the sealing ring is damaged, it will directly affect the performance of the pump. It must be replaced in time.
- 3、 When the pump is not used for a long time, the liquid in the pump cavity should be drained to prevent the internal parts of the pump from being damaged by thermal expansion and cold shrinkage.

Usage and precaution

1. Before using the pump, check carefully whether the fasteners are loose or fall off, and whether the pump is deformed or damaged during transportation, storage and installation.
2. After the pump is started, the rotation direction is counterclockwise from the water inlet. If the electric pump reverses, simply adjust the wiring position of any two-phase line in the cable.
3. Do not run the electric pump in a low head state for a long time (in general, the head should not be lower than 60% of the rated head). It is best to control within the recommended range of head to prevent the pump from burning out the motor due to overload.
4. The pump should not run under cavitation condition to improve the service life of the pump, and it is strictly forbidden to run the pump without liquid, otherwise it is easy to burn the mechanical seal.
5. If the parts of the pump are made of cast iron, in the winter when it is installed in the open air, attention should be paid to prevent the breakage of the positive stop, and when the temperature is particularly low, it should be insulated.

LW Non-Clogging Vertical Sewage Pump

| Failure | Reason Analysis | Checking Method |
|--------------------------------------|--|--|
| Insufficient flow or no water output | <ol style="list-style-type: none"> 1、 Impeller rotation error 2、 Whether the valve is open and intact 3、 Pipe impeller is blocked 4、 The head is too high 5、 Density of pumping medium is high 6、 The seal ring is damaged | <ol style="list-style-type: none"> 1、 Adjust the direction of impeller rotation 2、 Check, repair and exclude 3、 Cleaning debris 4、 Change the pump or reduce the head 5、 Flush with water to reduce the concentration 6、 Replacement |
| Unstable Running | <ol style="list-style-type: none"> 1、 Impeller unbalance 2、 Bearing damage | <ol style="list-style-type: none"> 1、 Send to the manufacturer for exchange or correction 2、 Replacement |
| Pump won't start | <ol style="list-style-type: none"> 1、 Lack of phase 2、 Impeller stuck 3、 Stator winding burned out | <ol style="list-style-type: none"> 1、 Check the electrical appliances and circuits for repair 2、 Exclude debris 3、 Repair and replace windings |
| Excessive current | <ol style="list-style-type: none"> 1、 Low working voltage 2、 Pipe and impeller are blocked 3、 High density or viscosity of pumped liquid 4、 The use of head is too low | <ol style="list-style-type: none"> 1、 Adjust the working voltage 2、 Clean up the pipeline, impeller blockage 3、 Change the density or viscosity 4、 Reduce the flow, increase the head |
| Insufficient pressure | <ol style="list-style-type: none"> 1、 Damaged or leaking mechanical seal 2、 Cable broken | <ol style="list-style-type: none"> 1、 Replacement 2、 Replacement |