



HYLIC PUMP

Reliable Pumping Solutions
for a Sustainable Future



Model HWL

Submersible Sewage Pumps

Hylic HWL Model

High-Capacity Models (Up to 7.7 kW)

The Hylic HWL model, manufactured by an ISO 9001-certified facility, features a fully optimized design covering hydraulic performance, mechanical structure, sealing, cooling, protection, and control. It offers excellent solid-handling capability, prevents fiber wrapping, and ensures high efficiency with energy savings.

With its dedicated electric control cabinet, the HWL model supports automatic operation and enhances motor safety and reliability. Multiple installation options are available to simplify pump station setups and reduce overall investment.

Hylic pumps are a trusted solution for delivering long-term performance and operational value.



HWL

Application & Electrical Specifications

Application

Hylic HWL Model submersible pumps are ideal for municipal infrastructure, industrial wastewater, and building drainage systems. They are engineered to handle sewage, wastewater, and stormwater containing solids and long fibers.

These pumps operate efficiently under the following conditions:

- Medium temperature $\leq 40^{\circ}\text{C}$, density $\leq 1050 \text{ kg/m}^3$, and pH between 4–10.
- Suitable for installations with or without motor cooling systems. Minimum liquid level should follow the installation chart.
- Not recommended for highly corrosive or abrasive media due to the cast iron/ductile iron construction.
- Solid particles in the medium must be smaller than the minimum runner clearance (recommended $\leq 80\%$ of impeller size). Fiber length must not exceed the discharge port diameter.

Electrical Specifications

- **Rated Voltage & Frequency** : 380V / 50Hz
- **Standard Wiring** : All pumps are preconfigured in Δ (Delta) wiring at the factory, suitable for :
 - o Direct-on-line (DOL) starting
 - o Auto-coupled pressure reducing start
 - o External electronic soft starter

For motor outputs ranging from **11 kW to 132 kW**, two wiring options are available :

1. Y- Δ (Star-Delta) Configuration

- o Six-lead connection via two main cables
- o Suitable for internal soft starters or star-delta control systems

2. Δ (Delta) Configuration

- o Wired internally in the terminal box
- o Suitable for auto-coupled or soft starter applications

Rotation Direction

The impeller rotates **counterclockwise (CCW)** when viewed from the suction side.

Key Features & Advantages of HWL Model

1. Advanced Impeller Design

- o For models with an aperture below 400 mm, most impellers are **bi-runner impellers**, with a few using **multi-blade centrifugal impellers**.
- o For models with an aperture of 400 mm and above, most use a **mixed-flow impeller**, and some use a bi-runner impeller.
- o The wide-flow channel design enables smooth passage of solids and fibrous materials, making the HWL model ideal for handling wastewater, sewage, and dirty water applications.

2. Reliable Mechanical Seal System

- o The HWL model employs **two single-end mechanical seals** arranged in model and installed internally within an oil chamber. This internal configuration offers enhanced sealing performance and better lubrication compared to external setups.
- o A **special anti-sediment groove** reduces wear from solid particles, while the **short shaft and rigid bearing layout** minimize vibration and improve operating stability.
- o These features contribute to **longer seal life, lower maintenance, and greater overall pump reliability**.

3. Durable Submersible Motor Design

The HWL pump features a motor with IPX8 protection, allowing reliable operation while fully submerged. It offers excellent heat dissipation, and with **Grade F insulation**, the motor withstands higher temperatures and provides greater durability compared to standard motors.

4. Smart Monitoring & Control

The HWL model integrates seamlessly with an electronic control cabinet, liquid-level float switch, and protective devices. These enable automatic monitoring and alarms for water leakage, overheating, short-circuit, overload, phase loss, and low voltage.

The system supports **auto-control functions** such as start, stop, phase alternation, and maintaining the minimum liquid level—without needing constant supervision.

It is compatible with both **auto-coupled pressure-reducing starts** and **electronic soft starters**, ensuring safe, efficient, and reliable operation with minimal human oversight.

5. Compact, Easy-to-Maintain Construction

The motor and pump casing are directly connected without the need for shaft alignment. This **streamlined design** simplifies installation, disassembly, and maintenance—saving both time and labor costs.

The compact footprint allows installation in limited spaces, and only simple lifting tools are required. The pump can be placed directly in a sewage pond without needing a dedicated pump room, reducing installation costs by over 40%.

6. Flexible Installation Options

HWL pumps support five installation types :

- Auto-coupled
- Movable hard-pipe
- Movable soft-pipe
- Fixed wet type
- Fixed dry type

The **auto-coupled system** allows the pump to connect to the discharge pipe via a guide rail, enabling quick installation and removal without disassembling other parts—minimizing downtime.

The **fixed dry installation** offers a great alternative to traditional vertical dry-installed sewage pumps. It works well without the risk of flooding and helps reduce building costs since no dedicated dry pump pit is required.

7. Optional Motor Cooling System

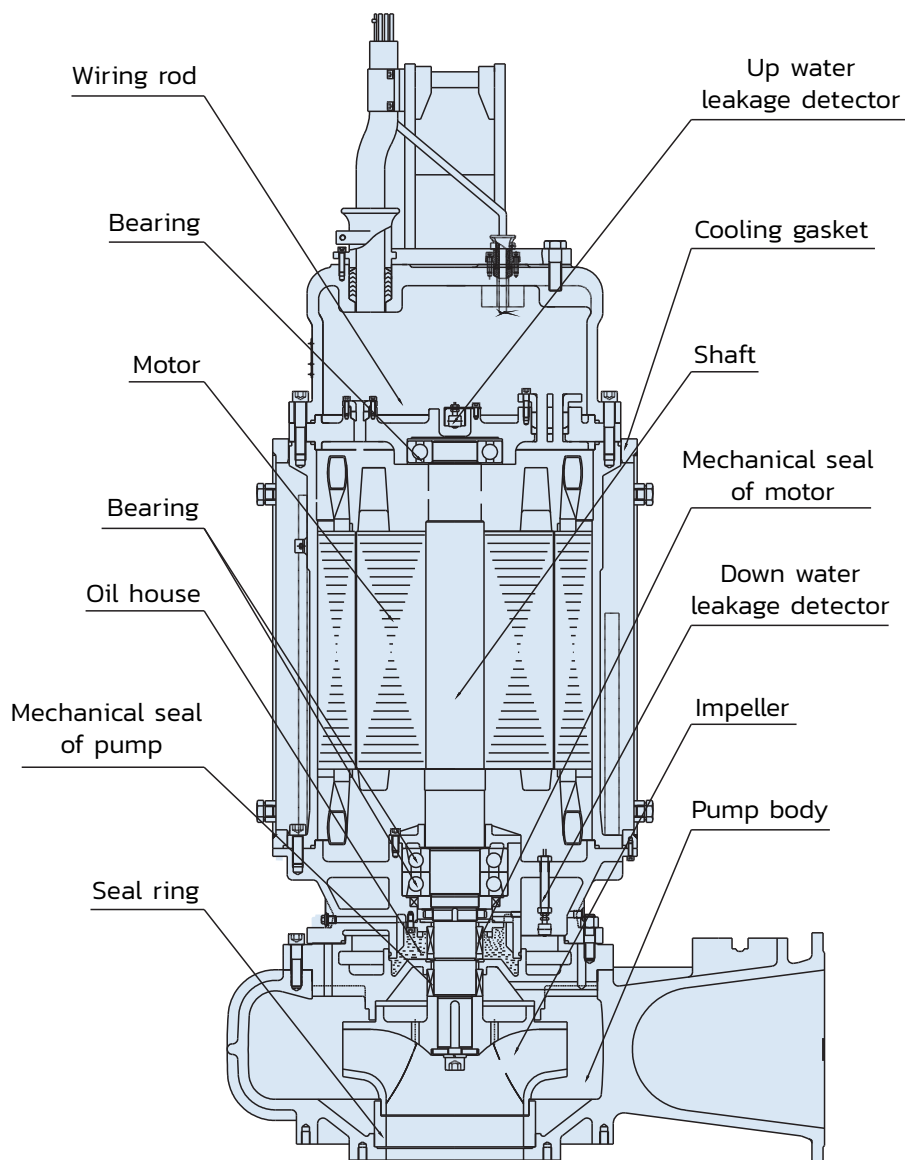
The HWL Model supports an optional motor cooling system that effectively enhances motor heat dissipation. This feature also allows the pump to operate at a lower water level, maximizing sewage drainage efficiency.

8. Quiet Operation & Eco-Friendly Design

Operating in a fully submerged mode, the HWL pump runs silently—eliminating noise pollution and making it highly suitable for environmentally sensitive areas such as urban zones and industrial facilities.

Pump Structure (Part List) Model : HWL

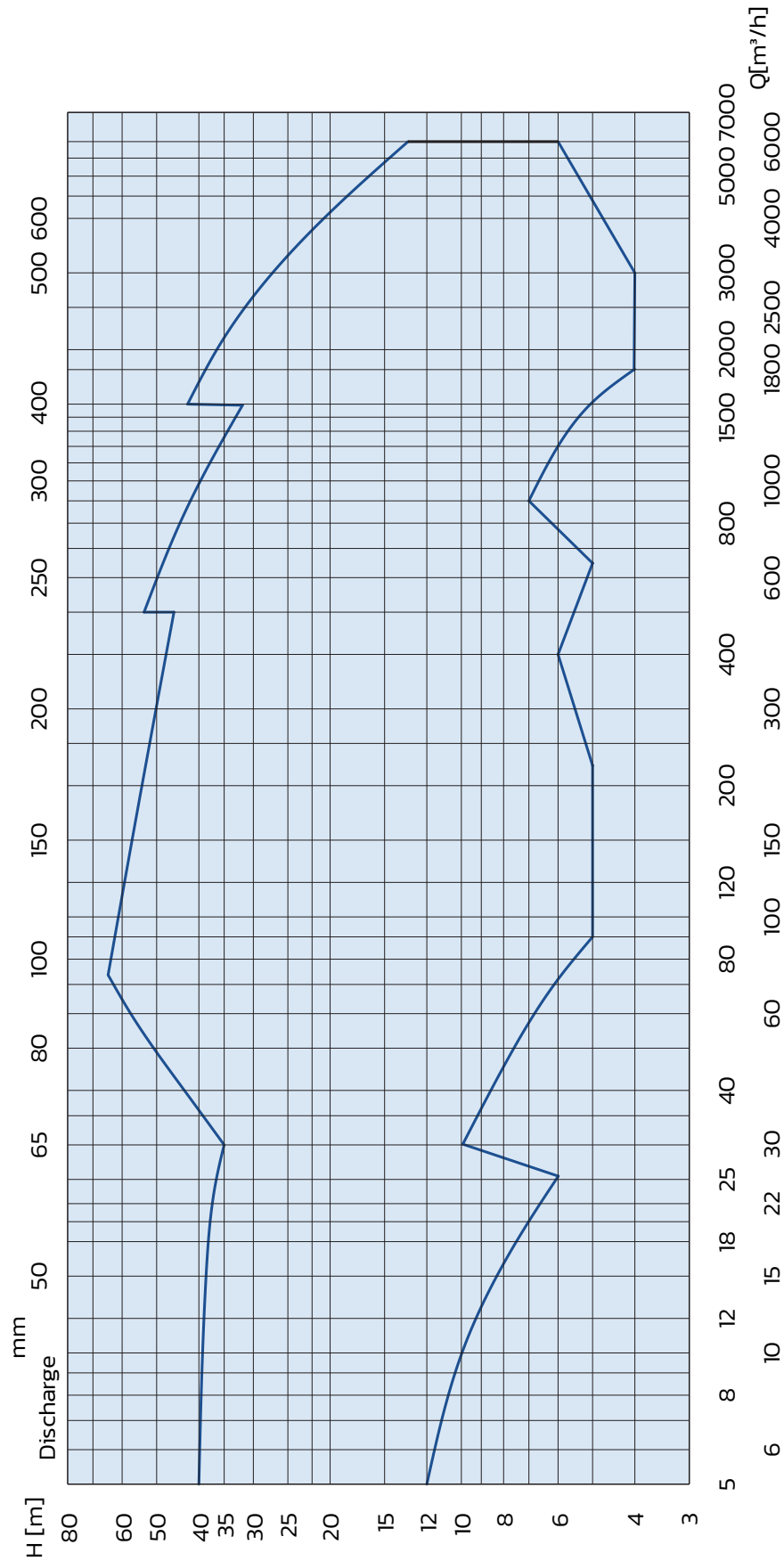
HWL Model Structure drawing



Materials of the main parts with model HWL model

Part	Pump casing, impeller, pump cover	Motor, casing	Shaft	Materials of mechanical seal			
Material	HT200 or ductile iron	HT200	20Cr13	Frictional pair by the motor	Frictional pair by the pump	Spring	Rubber part
				Graphite/Silicon carbide Graphite/Tungsten Carbide	Silicon carbide/Tungsten Carbide Tungsten Carbide/Tungsten Carbide	Stainless steel	Acrylonitrile-butadiene rubber

HWL Type Model Chart



Pump Performance Model : HWL

NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
1	80HWL50-35-11	80	40	11.1	40	2900	11	48	246
			50	13.9	35			55	
			75	20.8	27			63	
2	80HWL50-40-15	80	40	11.1	42	2900	15	46	248
			50	13.9	40			52	
			75	20.8	37			60	
3	80HWL50-64-18.5	80	40	11.1	65	2900	18.5	48	288
			50	13.9	64			56	
			65	18.1	60			62	
4	100HWL80-24-11	100	65	18.1	28	2900	11	58	248
			80	22.2	24			64	
			120	33.3	20			67	
5	100HWL80-32-15	100	65	18.1	35	2900	15	54	266
			80	22.2	32			58	
			120	33.3	25			62	
6	100HWL80-36-18.5	100	65	18.1	40	2900	18.5	50	275
			80	22.2	36			55	
			120	33.3	30			60	
7	100HWL80-40-22	100	65	18.1	45	2900	22	50	325
			80	22.2	40			55	
			120	33.3	35			62	
8	150HWL150-15-11	150	100	27.8	18	1460	11	67	278
			150	41.7	15			72	
			220	61.1	11			68	
9	150HWL150-20-15	150	100	27.8	23	1460	15	60	313
			150	41.7	20			68	
			220	61.1	17			64	
10	150HWL150-25-18.5	150	100	27.8	28	1470	18.5	60	415
			150	41.7	25			68	
			220	61.1	19			64	
11	150HWL150-30-22	150	100	27.8	33	1470	22	60	425
			150	41.7	30			65	
			200	61.1	25			68	
12	150HWL150-40-30	150	100	27.8	42	1470	30	60	555
			150	41.7	40			65	
			200	61.1	33			68	
13	150HWL150-45-37	150	100	27.8	47	1470	37	55	870
			150	41.7	45			62	
			200	61.1	38			65	
14	150HWL150-50-45	150	100	27.8	52	1470	45	55	886
			150	41.7	50			62	
			200	61.1	47			65	
15	150HWL150-60-55	150	80	22.2	62	1470	55	53	915
			150	41.7	60			60	
			200	55.6	56			63	
16	200HWL300-7-11	200	250	69.4	8	1460	11	72	365
			300	83.3	7			74	
			400	111.1	6			69	
17	200HWL300-10-15	200	250	69.4	11	1460	15	72	385
			300	83.3	10			74	
			400	111.1	8			69	
18	200HWL300-13-18.5	200	250	69.4	15	1470	18.5	66	440
			300	83.3	13			68	
			400	111.1	10			65	
19	200HWL300-15-22	200	250	69.4	17	1470	22	66	445
			300	83.3	15			68	
			400	111.1	13			65	
20	200HWL300-20-30	200	250	69.4	22	980	30	66	905
			300	83.3	20			67	
			400	111.1	17			67	

Pump Performance Model : HWL

NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
21	200HWL300-25-37	200	250	69.4	27	980	37	66	960
			300	83.3	25			67	
			400	111.1	23			68	
22	200HWL400-27-45	200	250	69.4	35	1480	45	65	890
			400	111.1	27			74	
			500	138.9	24			78	
23	200HWL400-34-55	200	250	69.4	36	1480	55	65	927
			400	111.1	34			74	
			500	138.9	30			78	
24	200HWL400-40-75	200	250	69.4	44	1480	75	62	1215
			400	111.1	40			70.5	
			500	138.9	35			72	
25	200HWL400-48-90	200	250	69.4	50	1480	90	62	1250
			400	111.1	48			70.5	
			500	138.9	44			72	
26	200HWL300-53-132	200	250	69.4	55	1480	132	52	1835
			300	83.3	53			64	
			400	111.1	48			69	
27	200HWL300-25-30(G)	200	250	61.1	27	1470	30	70	585
			300	83.3	25			80	
			400	111.1	20.5			79	
28	200HWL300-30-37(G)	200	220	61.1	30.5	1475	37	66	610
			300	83.3	30			76	
			430	119.4	24			80	
29	250HWL400-7-15	250	300	83.3	9	1460	15	75	410
			400	111.1	7			69	
			600	166.7	5			62	
30	250HWL400-10-18.5	250	300	83.3	12	1470	18.5	68	460
			400	111.1	10			75	
			600	166.7	7			70	
31	250HWL400-13-22	250	300	83.3	16	1470	22	68	470
			400	111.1	13			73	
			600	166.7	9			60	
32	250HWL500-12-30	250	400	111.1	15	980	30	70	960
			500	138.9	12			72	
			700	194.4	8			78	
33	250HWL500-16-37	250	400	111.1	18	980	37	70	995
			500	138.9	16			72	
			700	194.4	14			78	
34	250HWL500-20-45	250	400	111.1	22	980	45	70	1100
			500	138.9	20			72	
			700	194.4	16			78	
35	250HWL500-25-55	250	400	111.1	28	980	55	72	1225
			500	138.9	25			74	
			700	194.4	19			72	
36	250HWL600-28-75	250	500	138.9	31	1480	75	70	1120
			600	166.7	28			73	
			800	222.2	23			75	
37	250HWL600-34-90	250	500	138.9	37	1480	90	70	1315
			600	166.7	34			73	
			800	222.2	27			75	
38	250HWL600-40-110	250	500	138.9	43	1480	110	68	1605
			600	166.7	40			70	
			800	222.2	33			73	
39	250HWL600-50-132	250	500	138.9	53	1480	132	68	1900
			600	166.7	50			70	
			800	222.2	40			73	
40	250HWL550-55-132	250	450	125.0	59	1480	132	51	1950
			550	152.7	55			77	
			650	180.6	53			84	

Pump Performance Model : HWL

NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
41	250HWL600-60-160	250	500	138.9	62	1480	160	65	1980
			600	166.7	60			74	
			700	194.4	56			75	
42	250HWL500-10-30(G)	250	300	83.3	11.5	1470	30	62	625
			500	138.9	10			76	
			600	166.7	5.5			72	
43	250HWL500-16-37(G)	250	310	86.1	21	1475	37	70	670
			500	138.9	16			73	
			650	180.6	10			61	
44	250HWL500-19-37(G)	250	310	86.1	22	1475	37	64	685
			500	138.9	19			75	
			700	194.4	11.5			62	
45	250HWL500-25-45(G)	250	310	86.1	29.5	1475	45	64	725
			500	138.9	25			75	
			700	194.4	16			69	
46	300HWL600-6-18.5	300	500	138.9	7	1470	18.5	69	505
			600	166.7	6			65	
			750	208.3	5			61	
47	300HWL600-7-22	300	500	138.9	8	1470	22	69	510
			600	166.7	7			65	
			750	208.3	6			61	
48	300HWL700-11-30	300	550	152.8	13	980	30	72	980
			700	194.4	11			78	
			1000	277.8	8			77	
49	300HWL700-14-37	300	550	152.8	16	980	37	72	1075
			700	194.4	14			78	
			1000	277.8	10			77	
50	300HWL700-16-45	300	550	152.8	18	980	45	72	1130
			700	194.4	16			78	
			1000	277.8	12			77	
51	300HWL700-19-55	300	550	152.8	21	980	55	70	1180
			700	194.4	19			75	
			1000	277.8	14			73	
52	300HWL1000-20-75	300	800	222.2	23	990	75	75	1550
			1000	277.8	20			82	
			1400	388.9	15			80	
53	300HWL1000-24-90	300	800	222.2	27	990	90	75	1700
			1000	277.8	24			82	
			1400	388.9	18			80	
54	300HWL1000-28-110	300	800	222.2	31	980	110	75	1800
			1000	277.8	28			82	
			1400	388.9	20			80	
55	300HWL1000-35-132	300	800	222.2	38	1480	132	75	1900
			1000	277.8	35			80	
			1400	388.9	27			82	
56	300HWL1000-42-160	300	800	222.2	45	1480	160	62	2150
			1000	277.8	42			80	
			1200	333.3	37			78	
57	300HWL600-60-185	300	500	138.9	63	1480	185	66	2200
			600	166.7	60			70	
			750	208.3	57			73	
58	300HWL1200-39-185	300	1000	277.8	45	1480	185	64	2200
			1200	333.3	39			83	
			1500	416.7	30			80	
59	300HWL1400-39-200	300	1100	305.6	45	1480	200	62	2300
			1400	388.9	39			86	
			1700	472.2	34			85	
60	300HWL1400-44-220	300	1100	205.6	48	1480	220	64	2380
			1400	388.9	44			89	
			1700	472.2	37			88	

Pump Performance Model : HWL

NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
61	300HWL700-11-30(G)	300	300	83.3	18	1470	30	55	685
			700	194.4	11			68	
			820	227.8	8			58	
62	300HWL700-14-37(G)	300	500	138.9	17	1475	37	64	710
			700	194.4	14			78	
			940	261.1	8			64	
63	300HWL700-18-45(G)	300	380	105.6	24	1475	45	64	775
			700	194.4	18			78	
			940	261.1	10			65	
64	300HWL700-22-55(G)	300	450	125.0	26.5	1480	55	70	815
			700	194.4	22			83	
			950	163.9	12.5			68	
65	300HWL1000-20-75(G)	300	800	222.2	24	1480	75	80	1220
			1000	277.8	20			85	
			1200	333.3	15.5			73	
66	300HWL1000-24-90(G)	300	800	222.2	27.5	1480	90	82	1290
			1000	277.8	24			86	
			1350	375.0	15			72	
67	350HWL1200-6-30	350	1000	277.8	7	730	30	75	1210
			1200	333.3	6			72	
			1500	416.7	5			70	
68	350HWL1200-8-37	350	1000	277.8	9	740	37	76	1305
			1200	333.3	8			75	
			1500	416.7	6			70	
69	350HWL1100-10-45	350	900	250	11	740	45	67	1380
			1100	305.6	10			70	
			1500	416.7	7			68	
70	350HWL1100-12-55	350	900	250	14	740	55	69	1785
			1100	305.6	12			71	
			1500	416.7	8			66	
71	350HWL1100-16-75	350	900	250	19	980	75	70	1600
			1100	305.6	16			75	
			1500	416.7	12			72	
72	350HWL1100-20-90	350	900	250	24	980	90	70	1800
			1100	305.6	20			75	
			1500	416.7	15			72	
73	350HWL1100-25-110	350	900	250	30	980	110	72	1900
			1100	305.6	25			76	
			1500	416.7	18			73	
74	350HWL1100-30-132	350	900	250	35	980	132	72	2100
			1100	305.6	30			75	
			1500	416.7	24			79	
75	350HWL1100-36-160	350	900	250	40	980	160	70	2200
			1100	305.6	36			75	
			1500	416.7	28			80	
76	350HWL1500-30-185	350	1200	333.3	35	980	185	75	2600
			1500	416.7	30			80	
			2000	555.6	24			77	
77	350HWL1500-32-200	350	1200	333.3	38	740	200	75	2850
			1500	416.7	32			80	
			2000	555.6	25			78	
78	350HWL1500-35-220	350	1200	333.3	40	740	220	75	3050
			1500	416.7	35			80	
			2000	555.6	27			78	
79	350HWL1500-40-250	350	1200	333.3	42	740	250	78	3250
			1500	416.7	40			80	
			2000	555.6	33			82	
80	350HWL1800-40-280	350	1400	388.9	42	740	280	78	3450
			1800	500.0	40			80	
			2600	722.2	33			82	

Pump Performance Model : HWL

NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
81	350HWL1800-43-315	350	1400	388.9	48	740	315	78	3650
			1800	500.0	43			80	
			2600	722.2	35			82	
82	350HWL1800-46-355	350	1400	388.9	50	740	355	78	3950
			1800	500.0	46			80	
			2600	722.2	38			82	
83	400HWL1500-5-30	400	1200	333.3	6	730	30	75	1380
			1500	416.7	5			72	
			2000	555.6	3			65	
84	400HWL1500-6-37	400	1200	333.3	7	740	37	75	1400
			1500	416.7	6			72	
			2000	555.6	4.5			65	
85	400HWL1500-8-45	400	1200	333.3	10	740	45	78	1450
			1500	416.7	8			80	
			2000	555.6	6			78	
86	400HWL1500-10-55	400	1200	333.3	12	740	55	78	1850
			1500	416.7	10			82	
			2000	555.6	7			78	
87	400HWL1500-12-75	400	1200	333.3	14	990	75	75	1800
			1500	416.7	12			78	
			2000	555.6	9			72	
88	400HWL1500-15-90	400	1200	333.3	18	990	90	75	1850
			1500	416.7	15			78	
			2000	555.6	12			80	
89	400HWL1500-18-110	400	1200	333.3	21	990	110	70	1920
			1500	416.7	18			78	
			2000	555.6	14			75	
90	400HWL1500-22-132	400	1200	333.3	25	990	132	70	2200
			1500	416.7	22			75	
			2000	555.6	17			80	
91	400HWL2000-20-160	400	1500	416.7	23	990	160	75	2300
			2000	555.6	20			80	
			2800	777.8	15			77	
92	400HWL2000-23-185	400	1500	416.7	25	990	185	75	2500
			2000	555.6	23			80	
			2800	777.8	17			77	
93	400HWL2000-25-200	400	1500	416.7	30	745	200	75	2850
			2000	555.6	25			80	
			2800	777.8	19			78	
94	400HWL2000-28-220	400	1500	416.7	35	745	220	75	3050
			2000	555.6	28			80	
			2800	777.8	21			78	
95	400HWL2000-32-250	400	1500	416.7	38	745	250	78	4200
			2000	555.6	32			80	
			2800	777.8	25			82	
96	400HWL2000-36-280	400	1500	416.7	43	745	280	78	4300
			2000	555.6	36			80	
			2800	777.8	27			82	
97	400HWL2000-40-315	400	1500	416.7	44	740	315	78	4400
			2000	555.6	40			80	
			2800	777.8	35			82	
98	400HWL2000-45-355	400	1400	388.9	47	740	355	78	4470
			1800	500.0	45			80	
			2600	722.2	38			82	
99	500HWL2000-7-55	500	1500	416.7	10	740	55	80	1980
			2000	555.6	7			76.2	
			2500	694.4	4			68	
100	500HWL2200-8-75	500	1800	500	10	980	75	75	2150
			2200	611.1	8			70	
			2500	694.4	5			65	

Pump Performance Model : HWL

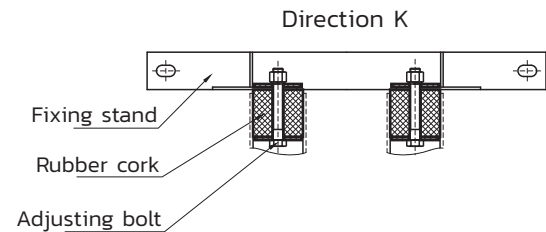
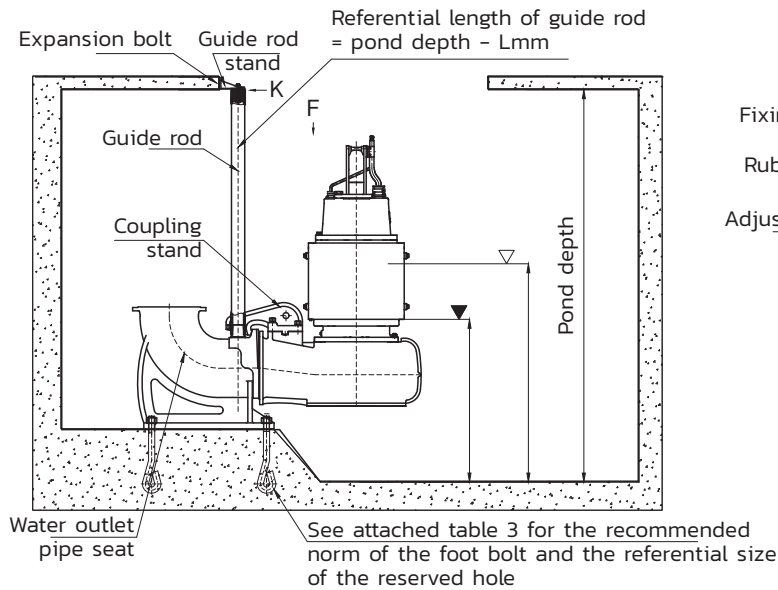
NO.	Type	Outlet diameter (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)	Efficiency (%)	Weight (Kg)
			(m³/h)	(L/s)					
101	500HWL2200-10-90	500	1800	500	13	990	90	78	2250
			2200	611.1	10			72	
			2400	666.6	7			68	
102	500HWL2200-12-110	500	1800	500	14	990	110	75	2350
			2200	611.1	12			72	
			2500	694.4	8			68	
103	500HWL2200-15-132	500	1800	500	17	990	132	70	2450
			2200	611.1	15			75	
			2500	694.4	12			68	
104	500HWL3000-11-132	500	2000	555.6	14	745	132	78	3840
			3000	833.3	11			75	
			4000	1111.1	6			72	
105	500HWL3000-13-160	500	2000	555.6	16	745	160	78	3940
			3000	833.3	13			75	
			4000	1111.1	7			72	
106	500HWL3000-15-185	500	2000	555.6	18	745	185	75	4040
			3000	833.3	15			72	
			4000	1111.1	9			70	
107	500HWL3000-16-200	500	2000	555.6	19	745	200	75	4040
			3000	833.3	16			72	
			4000	1111.1	10			70	
108	500HWL3000-18-220	500	2000	555.6	20	745	220	70	3700
			3000	833.3	18			75	
			4000	1111.1	11			73	
109	500HWL3000-21-250	500	2000	555.6	24	745	250	70	3910
			3000	833.3	21			77	
			4000	1111.1	16			75	
110	500HWL3000-24-280	500	2000	555.6	27	745	280	70	4200
			3000	833.3	24			77	
			4000	1111.1	18			75	
111	500HWL3000-28-315	500	2000	694.4	32	740	315	73	4350
			3000	833.3	28			82	
			4000	1111.1	21			74	
112	600HWL3000-8-110	600	2500	694.4	10	590	110	70	3700
			3000	833.3	8			68	
			4000	1111.1	4			56	
113	600HWL3000-10-132	600	2500	694.4	12	590	132	70	3800
			3000	833.3	10			75	
			4000	1111.1	6			61	
114	600HWL4000-10-160	600	3000	833.3	13	745	160	78	3900
			4000	1111.1	10			70	
			4600	1277.8	7			58	
115	600HWL4000-11-185	600	3000	833.3	15	745	185	78	4000
			4000	1111.1	11			75	
			4600	1277.8	8			60	
116	600HWL4000-12-200	600	3000	833.3	16	745	200	75	4100
			4000	1111.1	12			72	
			4600	1277.8	7			65	
117	600HWL4000-14-220	600	3000	833.3	18	745	220	77	4200
			4000	1111.1	14			75	
			4600	1277.8	9			72	
118	600HWL4000-16-250	600	3000	833.3	21	745	250	75	4300
			4000	1111.1	16			78	
			5000	1388.9	10			73	
119	600HWL4000-18-280	600	3000	833.3	22	745	280	75	4400
			4000	1111.1	18			77	
			5000	1388.9	11			72	
120	600HWL4000-20-315	600	3000	833.3	25	745	315	75	4500
			4000	1111.1	20			77	
			5000	1388.9	13			73	
121	600HWL4200-22-355	600	3000	833.3	26	740	355	68	4600
			4200	1166.6	22			75	
			5000	1388.9	18			69	

Installation Dimensions Chart

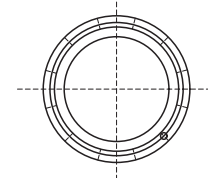
Model : HWL

Auto-coupled installation

Description to the installation dimension chart of the auto-coupled, fixed dry-type and fixed foundation installations

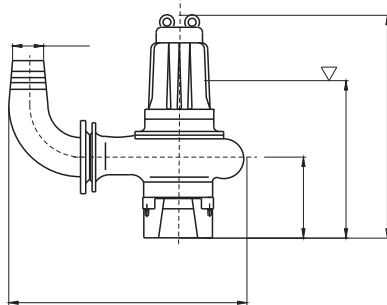


Size of flange

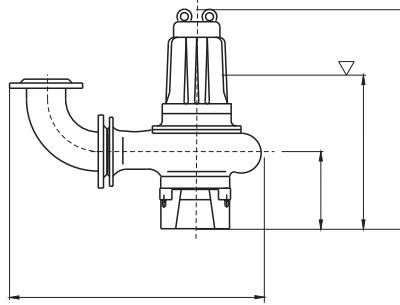


The flange of an aperture < 400 per the standard GB4216.3 or GB/T17241.6PN6
The flange of an aperture ≥ 400 per the standard GB4216.3 or GB/T17241.6PN10

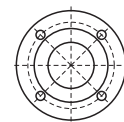
Movable soft-pipe installation



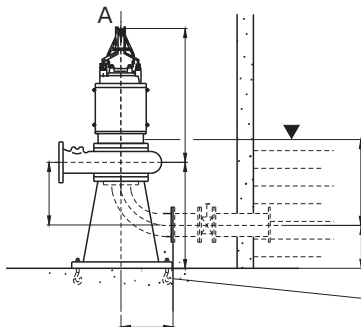
Movable hard-pipe installation



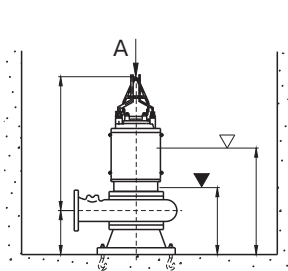
Size of flange



Fixed dry-type installation



Fixed wet-type installation



See attached table 4 for the recommended norm of the foot bolt and the referential size of the reserved hole

Direction A

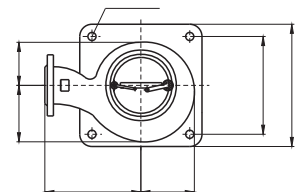


Table 1 : Guide Rod Specifications by Discharge Size

Discharge diameter of pump	Carbon steel welded pipe	Galvanized welded pipe	304 welded pipe	The reference length of guide rod = (pool depth-l) ± 15mm is l dimension
80	DN50×3	DN50×3	Ø60×3.5	270
100				325
150				480
200				600
250				700
300				850
350	DN80×3	DN80×3	Ø89×4	970
400				1130
500				1340
600				1570
Guide rod thickness deviation	±0.03	±0.03	3=2.7-2.9 3.5=3.3-3.5 4=3.7-3.9	

Note 1 : all guide rods are welded steel pipes, referred to as welded pipes.
 Standard for carbon steel welded pipe and galvanized welded pipe : GB/T 3091-2015,
 304 standard for welded pipe : GB / T 12771-2008.

Table 2 : Rubber Hose Specifications

Discharge aperture of pump (mm)	With the hose elbow joint specifications	Matched with the inner diameter of the rubber hose (mm)
80	80	89
100	100	102
150	150	152

Table 3 : Anchor Bolts for Outlet Pipe Base

Discharge aperture of pump (mm)	Foot bolt (GB799-88)		
	Norm	Quantity	Referential size of reserved hole L x W x D (mm)
80	M16 x 300	4	80 x 80 x 350
100			
150			
200	M24 x 500		100 x 100 x 550
250			
300			
350	M30 x 630		130 x 130 x 700
400			
500	M36 x 630	6	150 x 150 x 700
600			

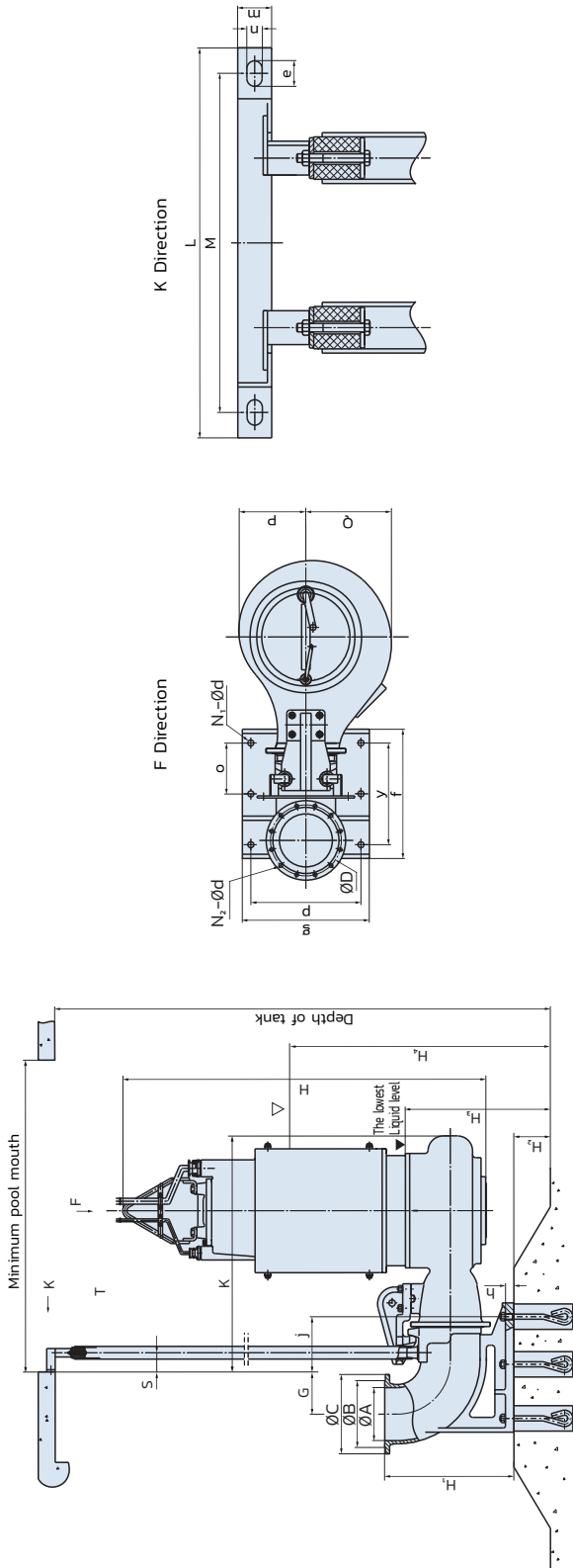
Table 4 : Anchor Bolts for Fixed Wet & Dry Installations

Serial No. of foundation	Fitted pump (classified with the suck-in aperture)	Foot bolt (GB799-88)		
		Norm	Quantily	Referential size of reserved hole L x W x D (mm)
01	300 (75 kW and below)	M30 x 630	4	130 x 130 x 700
03	200 (22 kW and below)	M20 x 400		100 x 100 x 450
	250 (22 kW and below)			
	350 (22 kW and below)			
10	80, 100, 150 (30 kW and below)			
11	150 (37 kW and above)	M30 x 630		130 x 130 700
	250 (30 kW and above)			
	200 (30 kW and above) 300 (30~55 kW)			
12	350 (90 kW and below)			
13	400 (110 kW and below)	M36 x 630		150 x 150 x700
14	350 (110 ~185 kW)			
15	350 (2000 kW and above) 400 (200 kW and above)			
16	400 (132~185 kW)			
17	500 (132 kW and above), 600			

Auto-coupled Installation Dimension Table

Model : HWL

HWL Model Auto-coupled installation dimensions table



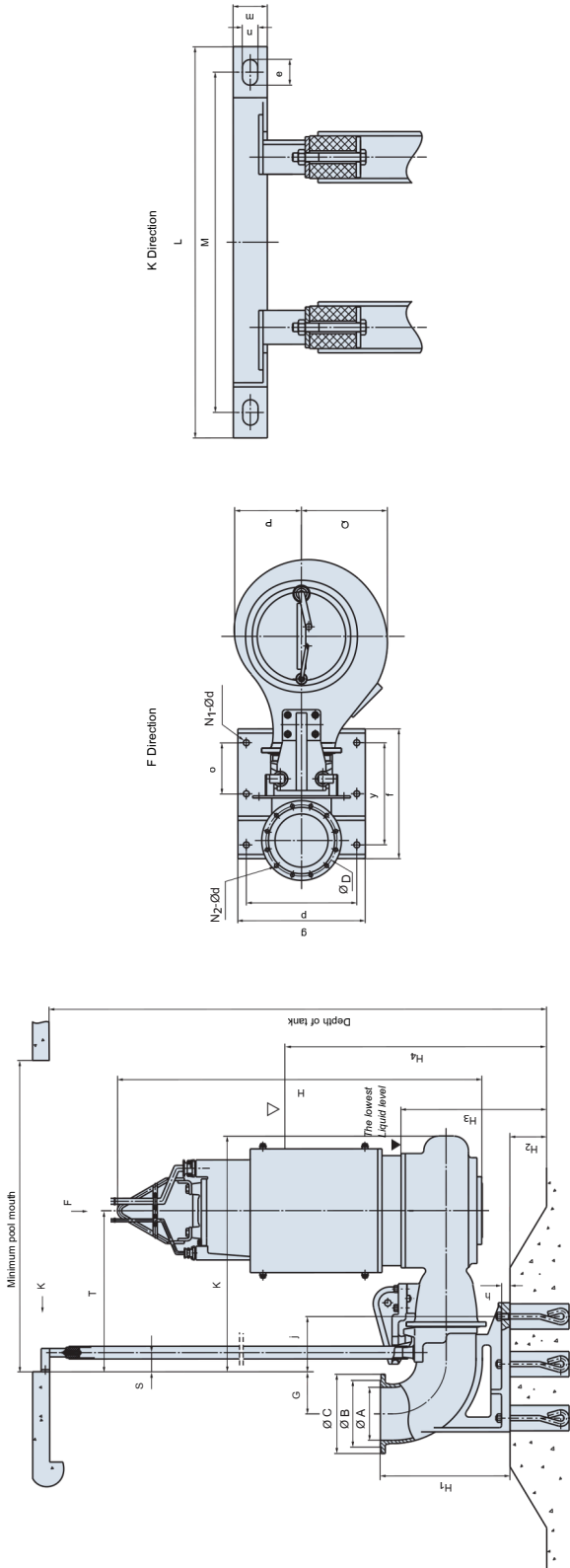
NO.	Type	ØA	ØB	ØC	ØD	N ₁ -Ød	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -Ød	P	Q	K	L	M	e	n	m	E
1	80HWL50-35-11	80	128	190	150	4-Ø17.5	915	275	80	—	790	25	70	175	90	455	290	340	255	260	—	4-Ø20	163	180	625	380	320	30	18	40	900×750
2	80HWL50-40-15	80	128	190	150	4-Ø17.5	915	275	80	—	790	25	70	175	90	455	290	340	255	260	—	4-Ø20	163	180	625	380	320	30	18	40	900×750
3	80HWL50-64-18.5	80	128	190	150	4-Ø17.5	960	275	80	—	825	25	70	175	90	455	290	340	255	260	—	4-Ø20	163	180	625	380	320	30	18	40	900×750
4	100HWL80-24-11	100	148	210	170	4-Ø17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-Ø20	163	186	655	380	320	30	18	40	950×750
5	100HWL80-32-15	100	148	210	170	4-Ø17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-Ø20	163	186	655	380	320	30	18	40	950×750
6	100HWL80-36-18.5	100	148	210	170	4-Ø17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-Ø20	163	186	655	380	320	30	18	40	1000×700
7	100HWL80-40-22	100	148	210	170	4-Ø17.5	960	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-Ø20	163	186	655	380	320	30	18	40	1000×700
8	150HWL150-15-11	150	202	265	225	8-Ø17.5	1005	485	150	—	985	35	125	260	90	545	480	500	440	400	—	4-Ø20	203	250	772	380	320	30	18	40	950×750
9	150HWL150-20-15	150	202	265	225	8-Ø17.5	1005	485	150	—	985	35	125	260	90	545	480	500	440	400	—	4-Ø20	203	250	772	380	320	30	18	40	950×750
10	150HWL150-25-18.5	150	202	265	225	8-Ø17.5	1085	485	150	—	1035	35	125	260	90	595	480	500	440	400	—	4-Ø20	233	262	840	380	320	30	18	40	1100×800
11	150HWL150-30-22	150	202	265	225	8-Ø17.5	1085	485	150	—	1035	35	125	260	90	595	480	500	440	400	—	4-Ø20	233	262	840	380	320	30	18	40	1100×800
12	150HWL150-40-30	150	202	265	225	8-Ø17.5	1495	485	150	530	1155	35	125	260	90	595	480	500	440	400	—	4-Ø20	233	262	840	380	320	30	18	40	1300×1000
13	150HWL150-45-37	150	202	265	225	8-Ø17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Ø20	288	316	945	380	320	30	18	40	1300×1000
14	150HWL150-50-45	150	202	265	225	8-Ø17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Ø20	288	316	945	380	320	30	18	40	1400×1100
15	150HWL150-60-55	150	202	265	225	8-Ø17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Ø20	288	316	945	380	320	30	18	40	1400×1100
16	200HWL300-7-11	200	260	320	280	8-Ø17.5	1020	570	200	—	1050	30	200	260	90	600	550	610	500	470	—	4-Ø30	239	318	878	460	400	30	18	40	1000×700
17	200HWL300-10-15	200	260	320	280	8-Ø17.5	1020	570	200	—	1050	30	200	260	90	600	550	610	500	470	—	4-Ø30	239	318	878	460	400	30	18	40	1000×700
18	200HWL300-13-18.5	200	260	320	280	8-Ø17.5	1085	570	200	—	1120	30	200	260	90	600	550	610	500	470	—	4-Ø30	239	318	878	460	400	30	18	40	1150×900
19	200HWL300-15-22	200	260	320	280	8-Ø17.5	1085	570	200	—	1120	30	200	260	90	600	550	610	500	470	—	4-Ø30	239	318	878	460	400	30	18	40	1150×900
20	200HWL300-20-30	200	260	320	280	8-Ø17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1300×1000
21	200HWL300-25-37	200	260	320	280	8-Ø17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1300×1000
22	200HWL400-27-45	200	260	320	280	8-Ø17.5	1685	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1300×1000
23	200HWL400-34-55	200	260	320	280	8-Ø17.5	1685	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1300×1000
24	200HWL400-40-75	200	260	320	280	8-Ø17.5	1805	570	200	670	1420	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1400×1100
25	200HWL400-48-90	200	260	320	280	8-Ø17.5	1805	570	200	670	1420	30	200	260	90	700	550	610	500	470	—	4-Ø30	309	376	1042	460	400	30	18	40	1400×1100
26	200HWL300-53-132	200	260	320	280	8-Ø17.5	2020	570	200	670	1420	30	200	260	90	700	550	610	500	470	—	4-Ø30	240	319	1045	460	400	30	18	40	1400×1100
27	200HWL300-25-30(G)	200	260	320	280	8-Ø17.5	1487	570	200	660	1200	30	200	260	90	645	550	610	500	470	—	4-Ø28	255	311	928	460	400	30	18	40	1300×1000
28	200HWL300-35-37(G)	200	260	320	280	8-Ø17.5	1487	570	200	660	1200	30	200	260	90	645	550	610	500	470	—	4-Ø28	255	311	928	460	400	30	18	40	1300×1000
29	250HWL400-7-15	250	312	375	335	12-Ø17.5	1045	610	250	—	1150	40	200	260	90	630	600	610	520	480	—	4-Ø30	253	333	923	460	400	30	18	40	1150×900
30	250HWL400-10-18.5	250	312	375	335	12-Ø17.5	1085	610	250	—	1200	40	200	260	90	630	600	610	520	480	—	4-Ø30	253	333	923	460	400	30	18	40	1150×900
31	250HWL400-13-22	250	312	375	335	12-Ø17.5	1085	610	250	—	1200	40	200	260	90	630	600	610	520	480	—	4-Ø30	253	333	923	460	400	30	18	40	1150×900
32	250HWL500-10-30	250	312	375	335	12-Ø17.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-Ø30	319	404	1098	460	400	30	18	40	1300×1000

NO.	Type	0A	0B	0C	0D	N _r -0d	H _s	H _t	H _h	h	G	J	S	T	g	f	p	y	o	N _r -0d	P	Q	K	L	M	e	n	m	E		
33	250HWL500-16-37	250	312	375	335	12-017.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
34	250HWL500-20-45	250	312	375	335	12-017.5	1735	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
35	250HWL500-25-55	250	312	375	335	12-017.5	1735	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
36	250HWL600-28-75	250	312	375	335	12-017.5	1805	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
37	250HWL600-34-90	250	312	375	335	12-017.5	1805	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
38	250HWL600-40-110	250	312	375	335	12-017.5	2020	610	250	740	1650	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
39	250HWL600-50-132	250	312	375	335	12-017.5	2020	610	250	740	1650	40	200	260	90	760	600	610	520	480	—	4-030	319	404	1098	460	400	30	18	40	1300×1000
40	250HWL550-55-132	250	312	375	335	12-017.5	2013	610	250	773	1698	40	200	260	90	760	600	610	520	480	—	4-030	314	376	1098	460	400	30	18	40	1300×1000
41	250HWL600-60-160	250	312	375	335	12-017.5	2013	610	250	773	1698	40	200	260	90	760	600	610	520	480	—	4-030	314	376	1098	460	400	30	18	40	1300×1000
42	250HWL500-10-30(G)	250	312	375	335	12-017.5	1503	610	250	750	1427	40	200	260	90	680	600	610	520	480	—	4-030	276	343	991	460	400	30	18	40	1300×1100
43	250HWL500-16-37(G)	250	312	375	335	12-017.5	1526	610	250	770	1274	40	200	260	90	680	600	610	520	480	—	4-030	274	346	990	460	400	30	18	40	1300×1000
44	250HWL500-19-37(G)	250	312	375	335	12-017.5	1526	610	250	770	1274	40	200	260	90	680	600	610	520	480	—	4-030	274	346	990	460	400	30	18	40	1300×1000
45	250HWL500-25-45(G)	250	312	375	335	12-017.5	1656	610	250	770	1404	40	200	260	90	680	600	610	520	480	—	4-030	274	346	990	460	400	30	18	40	1300×1100
46	300HWL600-6-18.5	300	365	440	395	12-022	1115	720	250	—	1320	45	250	330	90	700	880	870	780	770	—	4-030	300	400	1050	460	400	30	18	40	1150×950
47	300HWL600-7-22	300	365	440	395	12-022	1115	720	250	—	1320	45	250	330	90	700	880	870	780	770	—	4-030	300	400	1050	460	400	30	18	40	1150×950
48	300HWL700-11-30	300	365	440	395	12-022	1680	720	300	840	1500	45	250	330	90	770	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1400×1100
49	300HWL700-14-37	300	365	440	395	12-022	1680	720	300	840	1500	45	250	330	90	770	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1400×1100
50	300HWL700-16-45	300	365	440	395	12-022	1765	720	300	840	1550	45	250	330	90	770	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1400×1100
51	300HWL700-19-55	300	365	440	395	12-022	1765	720	300	840	1550	45	250	330	90	770	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1400×1100
52	300HWL700-20-75	300	365	440	395	12-022	2045	720	300	840	1760	45	250	330	90	920	880	870	780	770	—	4-030	375	488	1351	460	400	30	18	40	1600×1300
53	300HWL1000-24-90	300	365	440	395	12-022	2045	720	300	840	1760	45	250	330	90	920	880	870	780	770	—	4-030	375	488	1351	460	400	30	18	40	1600×1300
54	300HWL1000-28-110	300	365	440	395	12-022	2050	720	300	840	1790	45	250	330	90	920	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1600×1300
55	300HWL1000-35-132	300	365	440	395	12-022	2050	720	300	840	1790	45	250	330	90	920	880	870	780	770	—	4-030	349	473	1178	460	400	30	18	40	1600×1300
56	300HWL1000-42-160	300	365	440	395	12-022	2145	720	300	900	1825	45	250	330	90	820	880	870	780	770	—	4-030	344	436	1268	460	400	30	18	40	1700×1400
57	300HWL600-60-185	300	365	440	395	12-022	2140	720	300	840	1790	45	250	330	90	870	880	870	780	770	—	4-030	355	443	1268	460	400	30	18	40	1700×1400
58	300HWL1200-39-185	300	365	440	395	12-022	2145	720	300	900	1825	45	250	330	90	820	880	870	780	770	—	4-030	344	436	1268	460	400	30	18	40	1700×1400
59	300HWL1400-39-200	300	365	440	395	12-022	2275	720	300	970	1956	45	250	330	90	820	880	870	780	770	—	4-030	358	460	1229	460	400	30	18	40	1700×1400

Auto-coupled Installation Dimension Table

Model : HWL

HWL Model Auto-coupled installation dimensions table

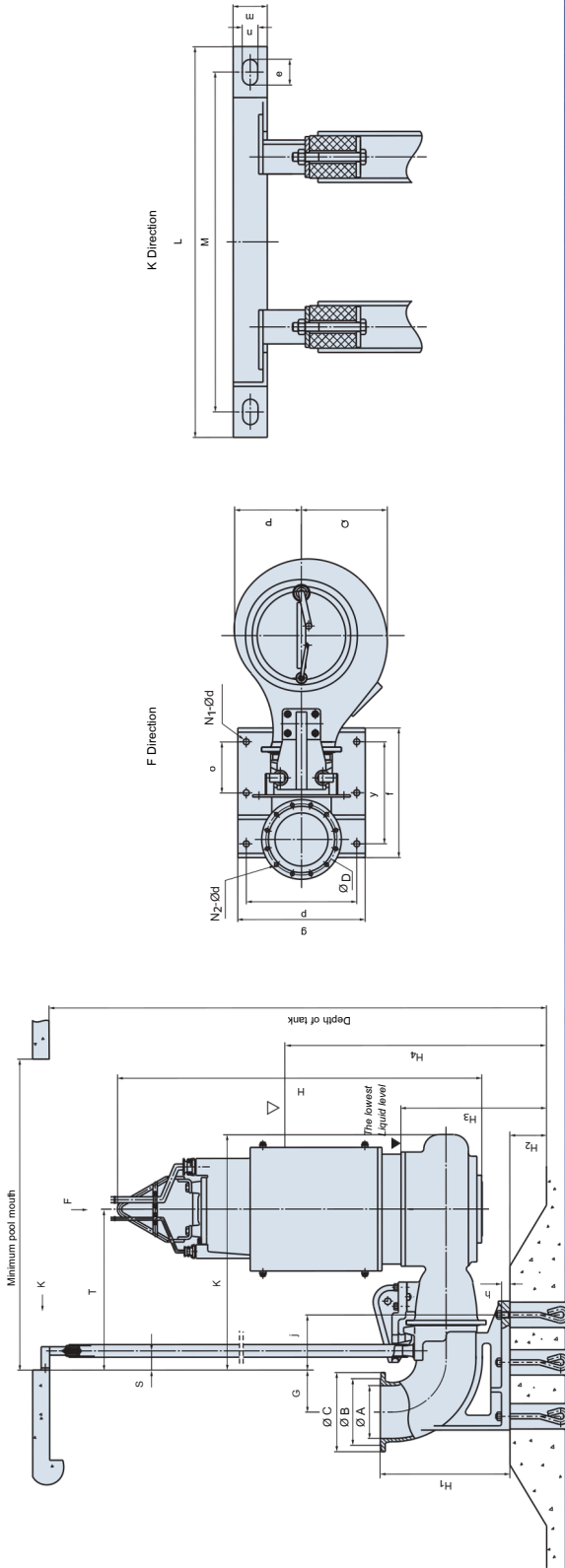


NO.	Type	ØA	ØB	ØC	ØD	N2-Ød	H	H1	H2	H3	H4	h	G	J	S	T	g	f	p	y	o	N1-Ød	P	Q	K	L	M	e	n	m	E
60	300HWL1400-44-220	300	365	440	395	12-022	2275	720	300	970	1956	45	250	330	90	820	880	870	780	770	-	4-030	358	460	1229	460	400	30	18	40	1700x1400
61	300HWL700-11-30(G)	300	365	440	395	12-022	1515	720	300	875	1370	45	250	330	90	740	880	870	780	770	-	4-030	324	406	1106	460	400	30	18	40	1300x1100
62	300HWL700-14-37(G)	300	365	440	395	12-022	1550	720	300	905	1404	45	250	330	90	740	880	870	780	770	-	4-030	287	377	1071	460	400	30	18	40	1300x1100
63	300HWL700-18-45(G)	300	365	440	395	12-022	1680	720	300	905	1534	45	250	330	90	740	880	870	780	770	-	4-030	287	377	1071	460	400	30	18	40	1300x1100
64	300HWL700-22-55(G)	300	365	440	395	12-022	1680	720	300	905	1534	45	250	330	90	740	880	870	780	770	-	4-030	287	377	1071	460	400	30	18	40	1300x1100
65	300HWL1000-20-75(G)	300	365	440	395	12-022	1810	720	300	933	1564	45	250	330	90	805	880	870	780	770	-	4-030	319	420	1174	460	400	30	18	40	1400x1100
66	300HWL1000-24-90(G)	300	365	440	395	12-022	1860	720	300	933	1614	45	250	330	90	805	880	870	780	770	-	4-030	319	420	1174	460	400	30	18	40	1400x1100
67	350HWL1200-6-30	350	415	490	445	12-022	1745	820	350	1000	1610	45	335	315	125	915	880	870	780	770	-	4-030	363	499	1346	640	580	30	18	60	1400x1100
68	350HWL1200-8-37	350	415	490	445	12-022	1830	820	350	1000	1670	45	335	315	125	915	880	870	780	770	-	4-030	363	499	1346	640	580	30	18	60	1400x1100
69	350HWL1100-10-45	350	415	490	445	12-022	1830	820	350	1000	1670	45	335	315	125	915	880	870	780	770	-	4-030	363	499	1346	640	580	30	18	60	1600x1300
70	350HWL1100-12-55	350	415	490	445	12-022	2115	820	350	1000	1900	45	335	315	125	915	880	870	780	770	-	4-030	363	499	1346	640	580	30	18	60	1600x1300
71	350HWL1100-16-75	350	415	490	445	12-022	2045	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	375	488	1396	640	580	30	18	60	1600x1300
72	350HWL1100-20-90	350	415	490	445	12-022	2045	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	375	488	1396	640	580	30	18	60	1700x1400
73	350HWL1100-25-110	350	415	490	445	12-022	2350	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	388	523	1422	640	580	30	18	60	1700x1400
74	350HWL1100-30-132	350	415	490	445	12-022	2350	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	388	523	1422	640	580	30	18	60	1700x1400
75	350HWL1100-36-160	350	415	490	445	12-022	2350	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	388	523	1422	640	580	30	18	60	1700x1400
76	350HWL1500-30-185	350	415	490	445	12-022	2350	820	350	1000	1900	45	335	315	125	965	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1900x1500
77	350HWL1500-32-200	350	415	490	445	12-022	2660	820	350	1000	1990	45	335	315	125	1115	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1600x1300
78	350HWL1500-35-220	350	415	490	445	12-022	2660	820	350	1000	1990	45	335	315	125	1115	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1600x1300
79	350HWL1500-40-250	350	415	490	445	12-022	2885	820	350	1000	2215	45	335	315	125	1115	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1600x1300
80	350HWL1800-40-280	350	415	490	445	12-022	2885	820	350	1000	2215	45	335	315	125	1115	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1600x1300
81	350HWL1800-43-315	350	415	490	445	12-022	2885	820	350	982	2215	45	335	315	125	1115	880	870	780	770	-	4-030	547	645	1715	640	580	30	18	60	1600x1300
82	350HWL1800-46-355	350	415	490	445	12-022	2885	820	350	982	2204	45	335	315	125	1115	880	870	780	770	-	4-040	547	645	1715	640	580	30	18	60	1600x1300
83	400HWL1500-5-30	400	428	565	515	16-026	1745	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-040	377	532	1355	640	580	30	18	60	1700x1400
84	400HWL1500-6-37	400	428	565	515	16-026	1830	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-040	377	532	1355	640	580	30	18	60	1700x1400
85	400HWL1500-8-45	400	428	565	515	16-026	1830	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-040	377	532	1355	640	580	30	18	60	1700x1400
86	400HWL1500-10-55	400	428	565	515	16-026	2115	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-040	377	532	1355	640	580	30	18	60	1700x1400

Auto-coupled Installation Dimension Table

Model : HWL

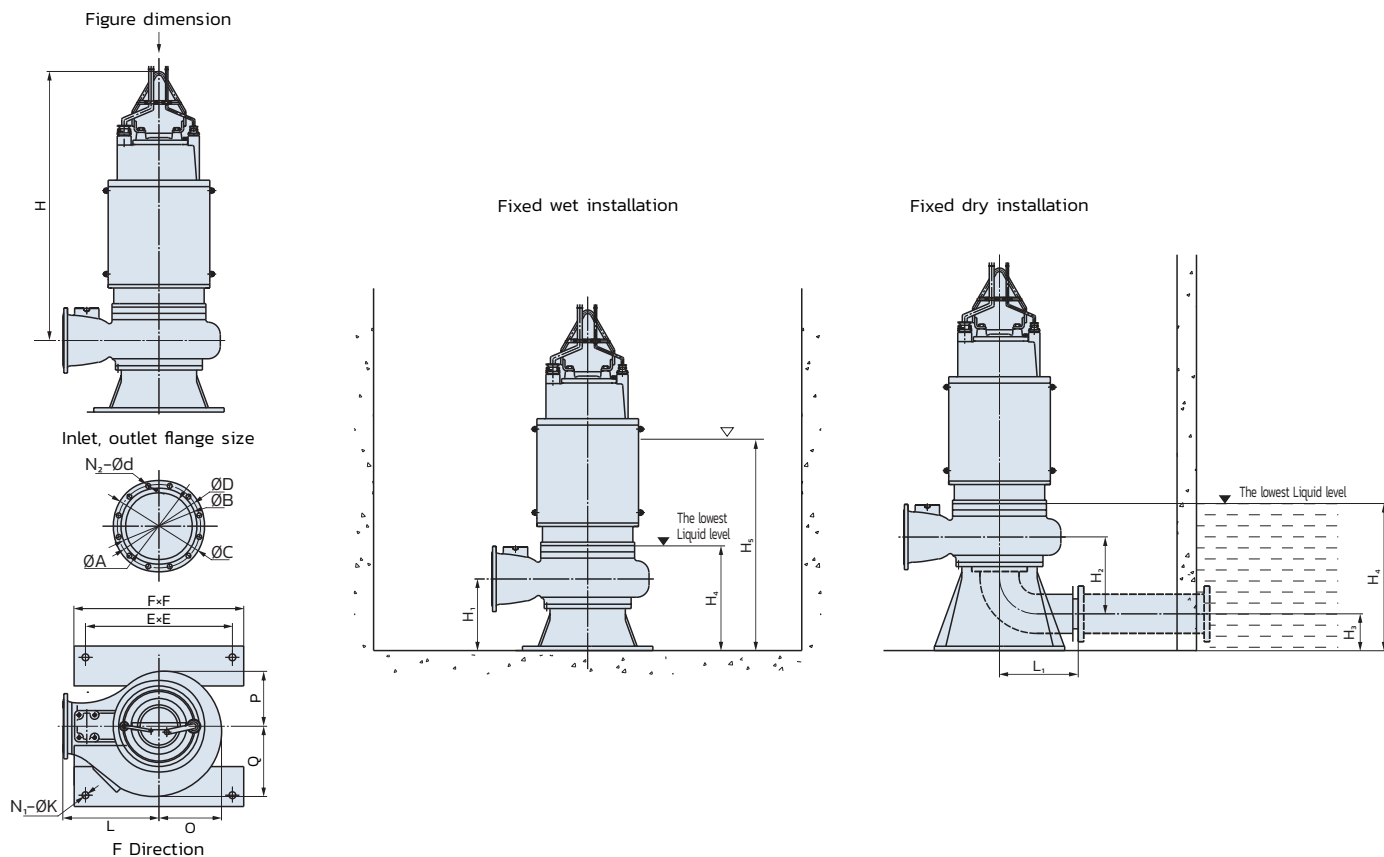
HWL Model Auto-coupled installation dimensions table



NO.	Type	ØA	ØB	ØC	ØD	N2-Ød	H	H1	H2	H3	H4	h	G	J	S	T	g	f	p	y	o	N1-Ød	P	Q	K	L	M	e	n	m	E
87	400HWL1500-12-75	400	428	565	515	16-Ø26	2115	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	377	532	1355	640	580	30	18	60	1700x1400
88	400HWL1500-15-90	400	428	565	515	16-Ø26	2115	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	377	532	1355	640	580	30	18	60	1700x1400
89	400HWL1500-18-110	400	428	565	515	16-Ø26	2115	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	377	532	1355	640	580	30	18	60	1700x1400
90	400HWL1500-22-132	400	428	565	515	16-Ø26	2395	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	377	532	1355	640	580	30	18	60	1700x1400
91	400HWL2000-20-160	400	428	565	515	16-Ø26	2395	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	475	615	1611	640	580	30	18	60	1900x1500
92	400HWL2000-23-185	400	428	565	515	16-Ø26	2395	940	400	1050	1831	50	480	370	125	971	880	950	780	850	425	6-Ø40	475	615	1611	640	580	30	18	60	1900x1500
93	400HWL2000-25-200	400	428	565	515	16-Ø26	2660	940	400	1050	1990	50	480	370	125	1115	880	950	780	850	425	6-Ø40	475	615	1611	640	580	30	18	60	1900x1500
94	400HWL2000-28-220	400	428	565	515	16-Ø26	2660	940	400	1050	1990	50	480	370	125	1115	880	950	780	850	425	6-Ø40	475	615	1611	640	580	30	18	60	1900x1500
95	400HWL2000-32-250	400	428	565	515	16-Ø26	2885	940	400	1050	2210	50	480	370	125	1115	880	950	780	850	425	6-Ø40	535	690	1786	640	580	30	18	60	1900x1500
96	400HWL2000-36-280	400	428	565	515	16-Ø26	2885	940	400	1050	2210	50	480	370	125	1115	880	950	780	850	425	6-Ø40	535	690	1786	640	580	30	18	60	1900x1500
97	400HWL2000-40-315	400	428	565	515	16-Ø26	2885	940	400	1050	2210	50	480	370	125	1115	880	950	780	850	425	6-Ø40	535	690	1786	640	580	30	18	60	1900x1500
98	400HWL2000-45-355	400	428	565	515	16-Ø26	2885	940	400	1050	2210	50	480	370	125	1115	880	950	780	850	425	6-Ø40	535	690	1786	640	580	30	18	60	1900x1500
99	500HWL2000-7-55	500	585	670	620	20-Ø26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
100	500HWL2200-8-75	500	585	670	620	20-Ø26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
101	500HWL2200-10-90	500	585	670	620	20-Ø26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
102	500HWL2200-12-110	500	585	670	620	20-Ø26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
103	500HWL2200-15-132	500	585	670	620	20-Ø26	2115	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
104	500HWL3000-11-132	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
105	500HWL3000-13-160	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
106	500HWL3000-15-185	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
107	500HWL3000-16-200	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	1900x1600
108	500HWL3000-18-220	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	555	740	1940	640	580	30	18	60	2100x1800
109	500HWL3000-21-250	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	555	740	1940	640	580	30	18	60	2100x1800
110	500HWL3000-24-280	500	585	670	620	20-Ø26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Ø50	555	740	1940	640	580	30	18	60	2100x1800
111	500HWL3000-28-315	500	585	670	620	20-Ø26	3008	1120	500	1300	2734	55	510	355	125	1240	1210	1300	1090	1180	590	6-Ø50	580	758	1910	640	580	30	18	60	2100x1800
112	600HWL3000-8-110	600	685	780	725	20-Ø30	2815	1280	600	1368	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	2200x1900
113	600HWL3000-10-132	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	2200x1900
114	600HWL4000-10-160	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	2200x1900
115	600HWL4000-11-185	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	2200x1900
116	600HWL4000-12-200	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	575	815	2000	640	580	30	18	60	2200x1900
117	600HWL4000-14-220	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	552	802	1902	640	580	30	18	60	2200x1900
118	600HWL4000-16-250	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	552	802	1902	640	580	30	18	60	2200x1900
119	600HWL4000-18-280	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	552	802	1902	640	580	30	18	60	2200x1900
120	600HWL4000-20-315	600	685	780	725	20-Ø30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-Ø50	552	802	1902	640	580	30	18	60	2200x1900
121	600HWL4000-22-335	600	685	780	725	20-Ø30	3055	1280	600	1610	2985	55	540	455	125	1445	1150	1300	1090	1180	590	6-Ø50	634	870	2199	640	580	30	18	60	2200x1900

Auto-coupled Installation Dimension Table Model : HWL

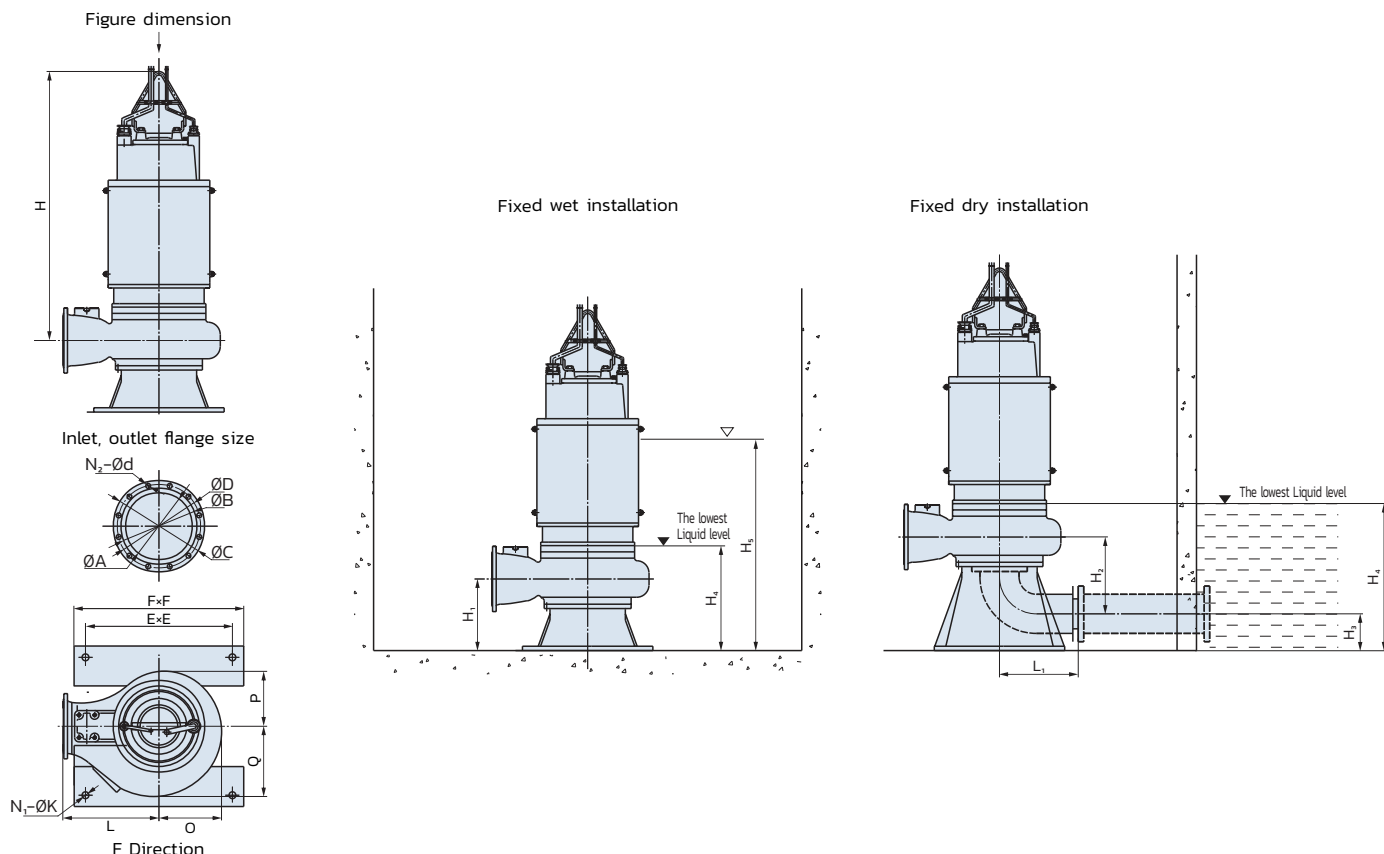
HWL Model Auto-coupled installation dimensions table



NO.	Type	Figure dimension												Wet installation			Dry installation				
		ØA	ØB	ØC	ØD	N ₂ -Ød	H	O	P	Q	L	E×E	F×F	N ₁ -Øk	H ₁	H ₂	H ₃	L ₁	H ₄	H ₅	H ₆
1	80HWL50-35-11	80	128	190	150	4-Ø17.5	830	212	163	180	280	520×520	600×600	4-Ø25	300	—	860	—	—	—	—
2	80HWL50-40-15	80	128	190	150	4-Ø17.5	830	212	163	180	280	520×520	600×600	4-Ø25	300	—	860	—	—	—	—
3	80HWL50-64-18.5	80	128	190	150	4-Ø17.5	875	212	163	180	280	520×520	600×600	4-Ø25	300	—	875	—	—	—	—
4	100HWL80-24-11	100	148	210	170	4-Ø17.5	830	205	163	180	280	520×520	600×600	4-Ø25	300	—	860	—	—	—	—
5	100HWL80-32-15	100	148	210	170	4-Ø17.5	830	205	163	180	280	520×520	600×600	4-Ø25	300	—	860	—	—	—	—
6	100HWL80-36-18.5	100	148	210	170	4-Ø17.5	830	256	163	180	280	520×520	600×600	4-Ø25	300	—	875	—	—	—	—
7	100HWL80-40-22	100	148	210	170	4-Ø17.5	875	256	163	180	280	520×520	600×600	4-Ø25	300	—	875	—	—	—	—
8	150HWL150-15-11	150	202	265	225	8-Ø17.5	870	228	203	250	350	520×520	600×600	4-Ø25	320	—	905	—	—	—	—
9	150HWL150-20-15	150	202	265	225	8-Ø17.5	870	228	203	250	350	520×520	600×600	4-Ø25	320	—	905	—	—	—	—
10	150HWL150-25-18.5	150	202	265	225	8-Ø17.5	935	247	233	262	400	565×565	640×640	4-Ø25	320	—	955	—	—	—	—
11	150HWL150-30-22	150	202	265	225	8-Ø17.5	935	247	233	262	400	565×565	640×640	4-Ø25	320	—	955	—	—	—	—
12	150HWL150-40-30	150	202	265	225	8-Ø17.5	1345	367	233	262	400	800×800	900×900	4-Ø40	480	620	1175	500	410	200	750
13	150HWL150-45-37	150	202	265	225	8-Ø17.5	1450	367	288	316	450	800×800	900×900	4-Ø40	480	620	1175	500	410	200	750
14	150HWL150-50-45	150	202	265	225	8-Ø17.5	1450	367	288	316	450	800×800	900×900	4-Ø40	480	620	1175	500	410	200	750
15	150HWL150-60-55	150	202	265	225	8-Ø17.5	1450	367	288	316	450	800×800	900×900	4-Ø40	480	620	1175	500	410	200	750
16	200HWL300-7-11	200	260	320	280	8-Ø17.5	870	254	212	295	400	520×520	600×600	4-Ø25	330	—	850	—	—	—	—
17	200HWL300-10-15	200	260	320	280	8-Ø17.5	870	254	212	295	400	520×520	600×600	4-Ø25	330	—	850	—	—	—	—
18	200HWL300-13-18.5	200	260	320	280	8-Ø17.5	930	267	230	300	400	520×520	600×600	4-Ø25	330	—	850	—	—	—	—
19	200HWL300-15-22	200	260	320	280	8-Ø17.5	930	267	230	300	400	520×520	600×600	4-Ø25	330	—	850	—	—	—	—
20	200HWL300-20-30	200	260	320	280	8-Ø17.5	1480	342	309	376	500	700×700	800×800	4-Ø40	445	640	1130	450	420	250	870
21	200HWL300-25-37	200	260	320	280	8-Ø17.5	1480	342	309	376	500	700×700	800×800	4-Ø40	445	640	1130	450	420	250	870
22	200HWL400-27-45	200	260	320	280	8-Ø17.5	1515	349	332	368	500	700×700	800×800	4-Ø40	495	660	1180	500	475	250	890
23	200HWL400-34-55	200	260	320	280	8-Ø17.5	1515	349	332	368	500	700×700	800×800	4-Ø40	495	660	1180	500	475	250	890
24	200HWL400-40-75	200	260	320	280	8-Ø17.5	1635	379	362	398	500	700×700	800×800	4-Ø40	495	660	1230	500	475	250	890
25	200HWL400-48-90	200	260	320	280	8-Ø17.5	1635	379	362	398	500	800×800	900×900	4-Ø40	495	660	1230	500	475	250	890
26	200HWL300-53-132	200	260	320	280	8-Ø17.5	1850	342	309	376	500	700×700	800×800	4-Ø40	445	660	1230	350	395	225	890
27	200HWL300-25-30(G)	200	260	320	280	8-Ø17.5	1293	283	255	311	445	520×520	600×600	4-Ø25	324	504	1044	350	304	200	684

Auto-coupled Installation Dimension Table Model : HWL

HWL Model Auto-coupled installation dimensions table

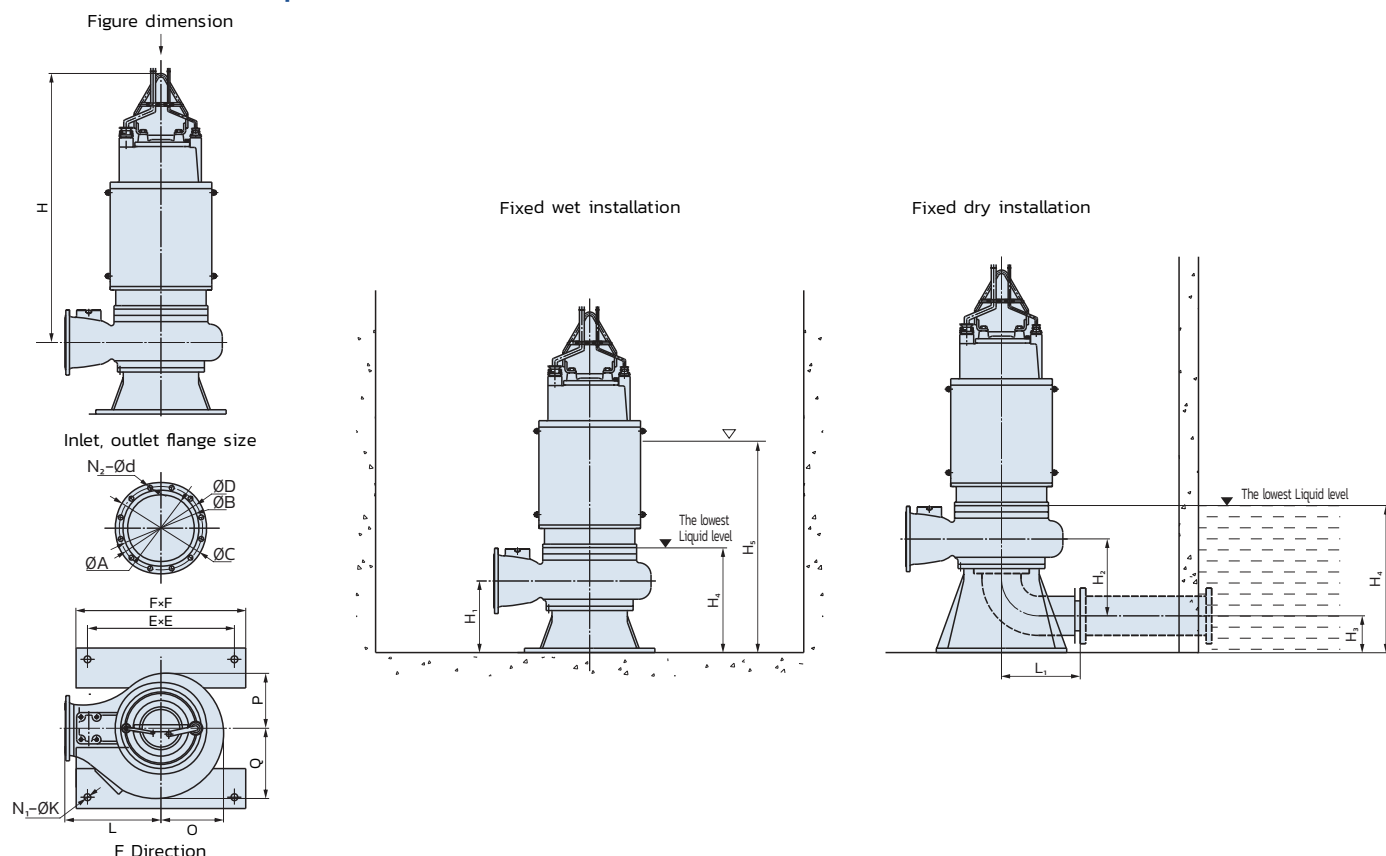


NO.	Type	Figure dimension													Wet installation			Dry installation			
		ØA	ØB	ØC	ØD	N ₁ -Ød	H	O	P	Q	L	E×E	F×F	N ₁ -Øk	H ₁	H ₂	H ₃	L ₁	H ₄	H ₅	H ₆
28	200HWL300-30-37(G)	200	260	320	280	8-Ø17.5	1293	283	255	311	445	520×520	600×600	4-Ø25	324	504	1044	350	304	200	684
29	250HWL400-7-15	250	312	375	335	12-Ø17.5	910	254	212	295	420	520×520	600×600	4-Ø25	330	—	950	—	—	—	—
30	250HWL400-10-18.5	250	312	375	335	12-Ø17.5	950	267	230	300	420	520×520	600×600	4-Ø25	330	—	950	—	—	—	—
31	250HWL400-13-22	250	312	375	335	12-Ø17.5	950	267	230	300	420	520×520	600×600	4-Ø25	330	—	950	—	—	—	—
32	250HWL500-10-30	250	312	375	335	12-Ø17.5	1480	360	319	404	550	700×700	800×800	4-Ø40	445	640	1280	450	445	300	945
33	250HWL500-16-37	250	312	375	335	12-Ø17.5	1480	360	319	404	550	700×700	800×800	4-Ø40	445	640	1280	450	445	300	945
34	250HWL500-20-45	250	312	375	335	12-Ø17.5	1565	360	319	404	550	700×700	800×800	4-Ø40	445	640	1280	450	445	300	945
35	250HWL500-25-55	250	312	375	335	12-Ø17.5	1565	360	319	404	550	700×700	800×800	4-Ø40	445	640	1330	450	445	300	945
36	250HWL600-28-75	250	312	375	335	12-Ø17.5	1635	379	362	398	550	800×800	900×900	4-Ø40	495	660	1330	500	500	300	965
37	250HWL600-34-90	250	312	375	335	12-Ø17.5	1635	379	362	398	550	800×800	900×900	4-Ø40	495	660	1330	500	500	300	965
38	250HWL600-40-110	250	312	375	335	12-Ø17.5	1850	379	362	398	550	800×800	900×900	4-Ø40	495	660	1330	500	500	300	965
39	250HWL600-50-132	250	312	375	335	12-Ø17.5	1850	379	362	398	550	800×800	900×900	4-Ø40	495	660	1330	500	500	300	965
40	250HWL550-55-132	250	319	395	350	12-Ø23	1858	345	314	376	550	700×700	800×800	4-Ø40	455	678	1603	350	425	225	873
41	250HWL600-60-160	250	319	395	350	12-Ø23	1858	345	314	376	550	700×700	800×800	4-Ø40	455	678	1603	350	425	225	873
42	250HWL500-10-30(G)	250	312	375	335	12-Ø17.5	1270	312	276	343	470	520×520	600×600	4-Ø25	368	568	1065	350	393	225	818
43	250HWL500-16-37(G)	250	312	375	335	12-Ø17.5	1297	311	274	346	470	520×520	600×600	4-Ø25	364	584	1088	350	389	225	834
44	250HWL500-19-37(G)	250	312	375	335	12-Ø17.5	1297	311	274	346	470	520×520	600×600	4-Ø25	364	584	1088	350	389	225	834
45	250HWL500-25-45(G)	250	312	375	335	12-Ø17.5	1427	311	274	346	470	520×520	600×600	4-Ø25	364	584	1218	350	389	225	834
46	300HWL600-6-18.5	300	365	440	395	12-Ø22	970	267	230	300	400	520×520	600×600	4-Ø25	330	—	1020	—	—	—	—
47	300HWL600-7-22	300	365	440	395	12-Ø22	970	267	230	300	400	520×520	600×600	4-Ø25	330	—	1020	—	—	—	—
48	300HWL700-11-30	300	365	440	395	12-Ø22	1485	378	327	430	550	700×700	800×800	4-Ø40	460	650	1350	450	510	400	1100
49	300HWL700-14-37	300	365	440	395	12-Ø22	1485	378	327	430	550	700×700	800×800	4-Ø40	460	650	1350	450	510	400	1100
50	300HWL700-16-45	300	365	440	395	12-Ø22	1570	397	344	454	550	700×700	800×800	4-Ø40	460	650	1350	450	510	400	1100
51	300HWL700-19-55	300	365	440	395	12-Ø22	1570	397	344	454	550	700×700	800×800	4-Ø40	460	650	1350	450	510	400	1100
52	300HWL1000-20-75	300	365	440	395	12-Ø22	1835	424	384	464	700	1000×1000	1100×1100	4-Ø50	580	700	1500	600	510	400	1100
53	300HWL1000-24-90	300	365	440	395	12-Ø22	1835	424	384	464	700	1000×1000	1100×1100	4-Ø50	580	700	1500	600	510	400	1100
54	300HWL1000-28-110	300	365	440	395	12-Ø22	1835	424	384	464	550	1000×1000	1100×1100	4-Ø50	580	700	1500	600	510	400	1100
55	300HWL1000-35-132	300	365	440	395	12-Ø22	1855	424	384	464	550	1000×1000	1100×1100	4-Ø50	580	700	1500	600	510	400	1100
56	300HWL1000-42-160	300	365	440	395	12-Ø23	1865	391	344	436	600	—	—	—	—	—	—	—	—	—	—
57	300HWL600-60-185	300	370	445	400	12-Ø22	1858	399	354	443	650	700×700	800×800	4-Ø40	430	395	1400	450	475	270	1100
58	300HWL1200-39-185	300	365	440	395	12-Ø23	1865	391	344	436	600	—	—	—	—	—	—	—	—	—	—
59	300HWL1400-39-200	300	365	440	395	12-Ø23	2040	409	358	460	600	—	—	—	—	—	—	—	—	—	—
60	300HWL1400-44-220	300	365	440	395	12-Ø23	2040	409	358	460	600	—	—	—	—	—	—	—	—	—	—

Auto-coupled Installation Dimension Table

Model : HWL

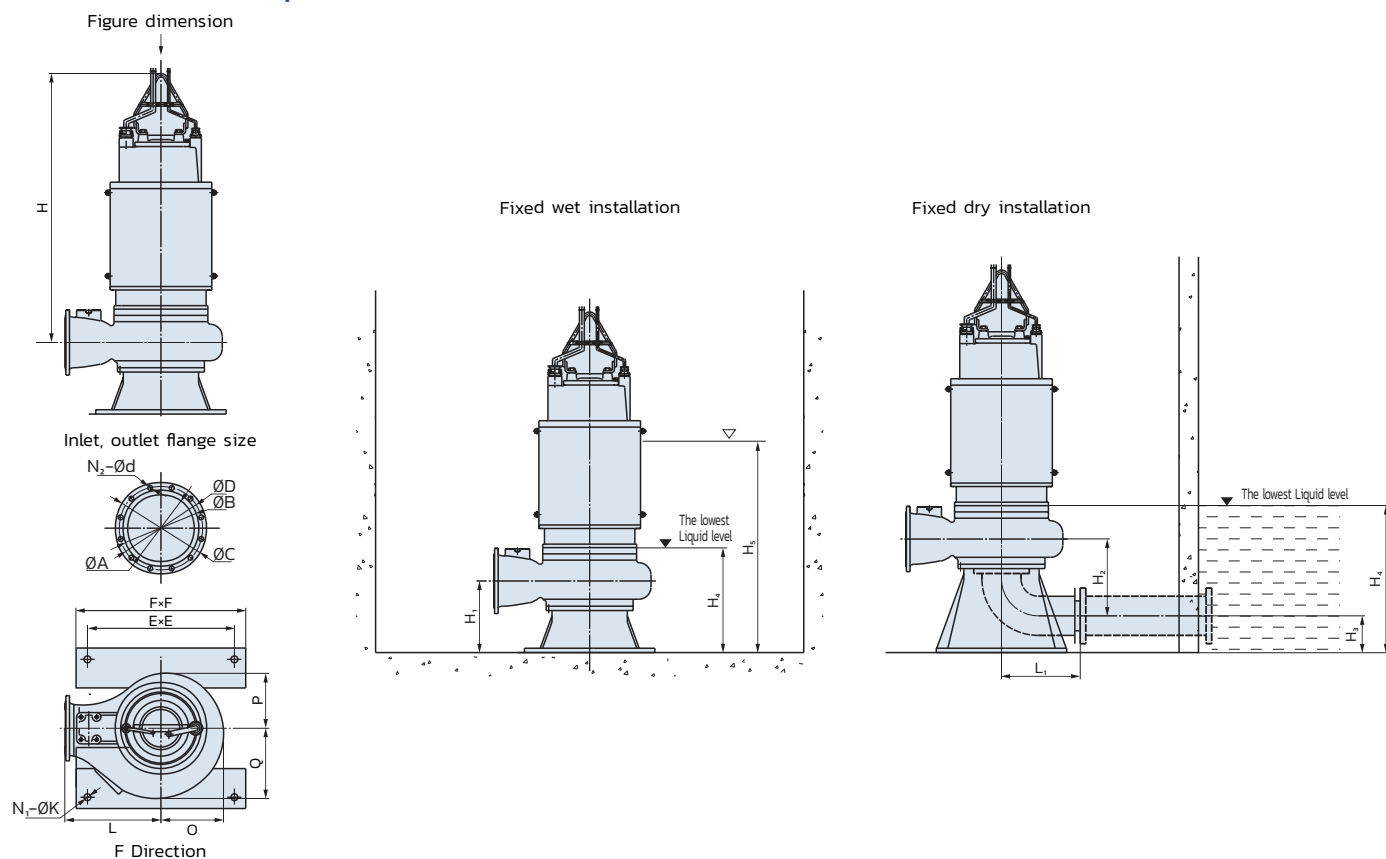
HWL Model Auto-coupled installation dimensions table



NO.	Type	Figure dimension												Wet installation				Dry installation			
		$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$N_s-\varnothing d$	H	O	P	Q	L	E×E	F×F	$N_1-\varnothing k$	H_1	H_2	H_3	L_1	H_4	H_5	H_6
61	300HWL700-11-30(G)	300	365	440	395	12- $\varnothing 22$	1270	367	324	406	520	620×620	720×720	4- $\varnothing 30$	435	640	1132	450	403	270	880
62	300HWL700-14-37(G)	300	365	440	395	12- $\varnothing 22$	1307	333	287	377	520	620×620	720×720	4- $\varnothing 30$	433	668	1167	450	403	270	908
63	300HWL700-18-45(G)	300	365	440	395	12- $\varnothing 22$	1437	333	287	377	520	620×620	720×720	4- $\varnothing 30$	433	668	1297	450	403	270	908
64	300HWL700-22-55(G)	300	365	440	395	12- $\varnothing 22$	1437	333	287	377	520	620×620	720×720	4- $\varnothing 30$	433	668	1297	450	403	270	908
65	300HWL1000-20-75(G)	300	365	440	395	12- $\varnothing 22$	1552	371	319	420	585	800×800	900×900	4- $\varnothing 40$	483	746	1377	350	518	270	1051
66	300HWL1000-24-90(G)	300	365	440	395	12- $\varnothing 22$	1602	371	319	420	585	800×800	900×900	4- $\varnothing 40$	483	746	1427	350	518	270	1051
67	350HWL1200-6-30	350	415	490	445	12- $\varnothing 22$	1470	434	363	499	650	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1510	600	625	450	1200
68	350HWL1200-8-37	350	415	490	445	12- $\varnothing 22$	1555	434	363	499	650	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1510	600	625	450	1200
69	350HWL1100-10-45	350	415	490	445	12- $\varnothing 22$	1555	434	363	499	650	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1510	600	625	450	1200
70	350HWL1100-12-55	350	415	490	445	12- $\varnothing 22$	1840	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
71	350HWL1100-16-75	350	415	490	445	12- $\varnothing 22$	1840	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
72	350HWL1100-20-90	350	415	490	445	12- $\varnothing 22$	1840	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
73	350HWL1100-25-110	350	415	490	445	12- $\varnothing 22$	1840	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
74	350HWL1100-30-132	350	415	490	445	12- $\varnothing 22$	1890	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
75	350HWL1100-36-160	350	415	490	445	12- $\varnothing 22$	1890	515	475	555	700	1000×1000	1100×1100	4- $\varnothing 50$	600	820	1740	600	625	450	1200
76	350HWL1500-30-185	350	415	490	445	12- $\varnothing 22$	1890	434	363	499	700	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1540	600	625	450	1200
77	350HWL1500-32-200	350	415	490	445	12- $\varnothing 22$	2260	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1800	600	625	450	1200
78	350HWL1500-35-220	350	415	490	445	12- $\varnothing 22$	2260	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	1800	600	625	450	1200
79	350HWL1500-40-250	350	415	490	445	12- $\varnothing 22$	2485	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	2040	600	625	450	1200
80	350HWL1800-40-280	350	415	490	445	12- $\varnothing 22$	2485	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	2040	600	625	450	1200
81	350HWL1800-43-315	350	415	490	445	12- $\varnothing 22$	2485	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	2040	600	625	450	1200
82	350HWL1800-46-355	350	415	490	445	12- $\varnothing 22$	2485	600	645	548	850	1000×1000	1100×1100	4- $\varnothing 50$	655	800	2040	600	625	450	1200
83	400HWL1500-5-30	400	482	565	515	16- $\varnothing 26$	1435	459	377	533	700	1000×1000	1100×1100	4- $\varnothing 50$	690	800	1690	600	630	500	1330
84	400HWL1500-6-37	400	482	565	515	16- $\varnothing 26$	1530	459	377	533	700	1000×1000	1100×1100	4- $\varnothing 50$	690	800	1690	600	630	500	1330
85	400HWL1500-8-45	400	482	565	515	16- $\varnothing 26$	1530	459	377	533	700	1000×1000	1100×1100	4- $\varnothing 50$	690	800	1690	600	630	500	1330
86	400HWL1500-10-55	400	482	565	515	16- $\varnothing 26$	1805	459	377	533	700	1000×1000	1100×1100	4- $\varnothing 50$	690	800	1690	600	630	500	1330
87	400HWL1500-12-75	400	482	565	515	16- $\varnothing 26$	1805	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	690	820	1690	600	630	500	1330
88	400HWL1500-15-90	400	482	565	515	16- $\varnothing 26$	1805	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	690	820	1690	600	630	500	1330
89	400HWL1500-18-110	400	482	565	515	16- $\varnothing 26$	1805	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	690	820	1690	600	630	500	1330
90	400HWL1500-22-132	400	482	565	515	16- $\varnothing 26$	1890	424	384	464	700	1000×1000	1100×1100	4- $\varnothing 50$	690	820	1690	600	630	500	1330
91	400HWL2000-20-160	400	482	565	515	16- $\varnothing 26$	1890	545	475	615	700	1000×1000	1100×1100	4- $\varnothing 50$	690	850	1690	600	620	500	1400
92	400HWL2000-23-185	400	482	565	515	16- $\varnothing 26$	1890	545	475	615	700	1000×1000	1100×1100	4- $\varnothing 50$	690	850	1690	600	620	500	1400

Auto-coupled Installation Dimension Table Model : HWL

HWL Model Auto-coupled installation dimensions table

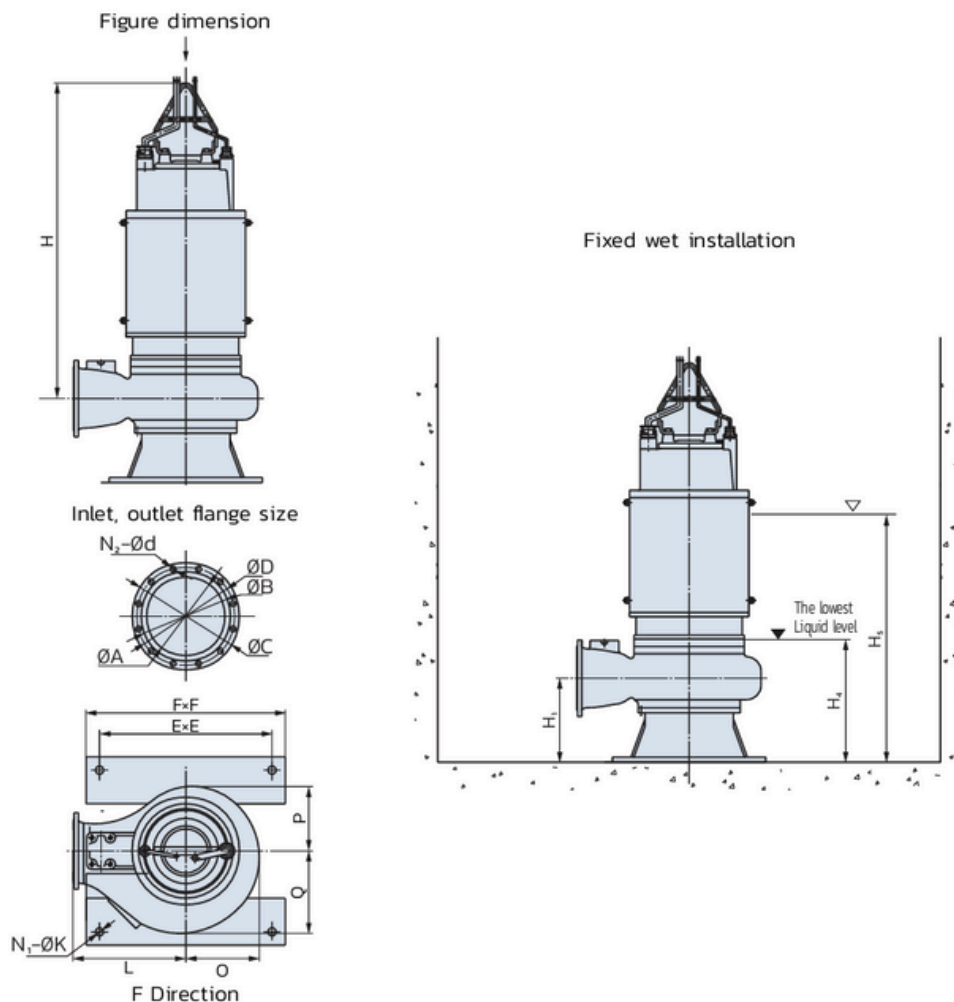


NO.	Type	Figure dimension												Wet installation			Dry installation				
		ØA	ØB	ØC	ØD	N ₂ -Ød	H	O	P	Q	L	E×E	F×F	N ₁ -Øk	H ₁	H ₂	H ₃	L ₁	H ₄	H ₅	H ₆
93	400HWL2000-25-200	400	482	565	515	16-Ø26	2260	545	475	615	850	1000×1000	1100×1100	4-Ø50	710	850	1800	600	750	600	1750
94	400HWL2000-28-220	400	482	565	515	16-Ø26	2260	620	535	690	850	1000×1000	1100×1100	4-Ø50	710	950	1800	650	750	600	1750
95	400HWL2000-32-250	400	482	565	515	16-Ø26	2485	620	535	690	850	1000×1000	1100×1100	4-Ø50	710	950	2040	650	750	600	1750
96	400HWL2000-36-280	400	482	565	515	16-Ø26	2485	620	535	690	850	1000×1000	1100×1100	4-Ø50	710	950	2040	650	750	600	1750
97	400HWL2000-40-315	400	482	565	515	16-Ø26	2485	600	645	548	850	1100×1100	1200×1200	4-Ø50	710	800	2040	600	625	450	1200
98	400HWL2000-45-355	400	482	565	515	16-Ø26	2485	600	645	548	850	1100×1100	1200×1200	4-Ø50	710	800	2040	600	625	450	1200
99	500HWL2000-7-55	500	585	670	620	20-Ø26	1815	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1790	650	850	750	1750
100	500HWL2200-8-75	500	585	670	620	20-Ø26	1815	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1790	650	850	750	1750
101	500HWL2200-10-90	500	585	670	620	20-Ø26	2005	491	399	574	1000	1100×1100	1200×1200	4-Ø50	780	950	1790	600	620	550	1750
102	500HWL2200-12-110	500	585	670	620	20-Ø26	2005	491	399	574	1000	1100×1100	1200×1200	4-Ø50	780	950	1790	600	620	550	1750
103	500HWL2200-15-132	500	585	670	620	20-Ø26	2005	491	399	574	1000	1100×1100	1200×1200	4-Ø50	780	950	1790	600	620	550	1750
104	500HWL3000-11-132	500	585	670	620	20-Ø26	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
105	500HWL3000-13-160	500	585	670	620	20-Ø26	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
106	500HWL3000-15-185	500	585	670	620	20-Ø26	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
107	500HWL3000-16-200	500	585	670	620	20-Ø26	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
108	500HWL3000-18-220	500	585	670	620	20-Ø26	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
109	500HWL3000-21-250	500	585	670	620	20-Ø26	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
110	500HWL3000-24-280	500	585	670	620	20-Ø26	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	780	1100	1930	650	750	600	1750
111	500HWL3000-28-315	500	585	670	620	20-Ø26	2588	670	580	758	950	—	—	—	—	—	—	—	—	—	—
112	600HWL3000-8-110	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1830	650	850	750	1900
113	600HWL3000-10-132	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1830	650	850	750	1900
114	600HWL4000-10-16	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1830	650	850	750	1900
115	600HWL4000-11-185	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
116	600HWL4000-12-200	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
117	600HWL4000-14-220	600	685	780	725	20-Ø30	2305	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
118	600HWL4000-16-250	600	685	780	725	20-Ø30	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
119	600HWL4000-18-280	600	685	780	725	20-Ø30	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
120	600HWL4000-20-315	600	685	780	725	20-Ø30	2530	705	575	815	1000	1100×1100	1200×1200	4-Ø50	830	1200	1905	650	850	750	1900
121	600HWL4000-22-355	600	685	780	725	20-Ø30	2640	754	634	870	1100	—	—	—	—	—	—	—	—	—	—

Auto-coupled Installation Dimension Table

Model : HWL

HWL Model Auto-coupled installation dimensions (for outlet dimensions more then 600 mm)

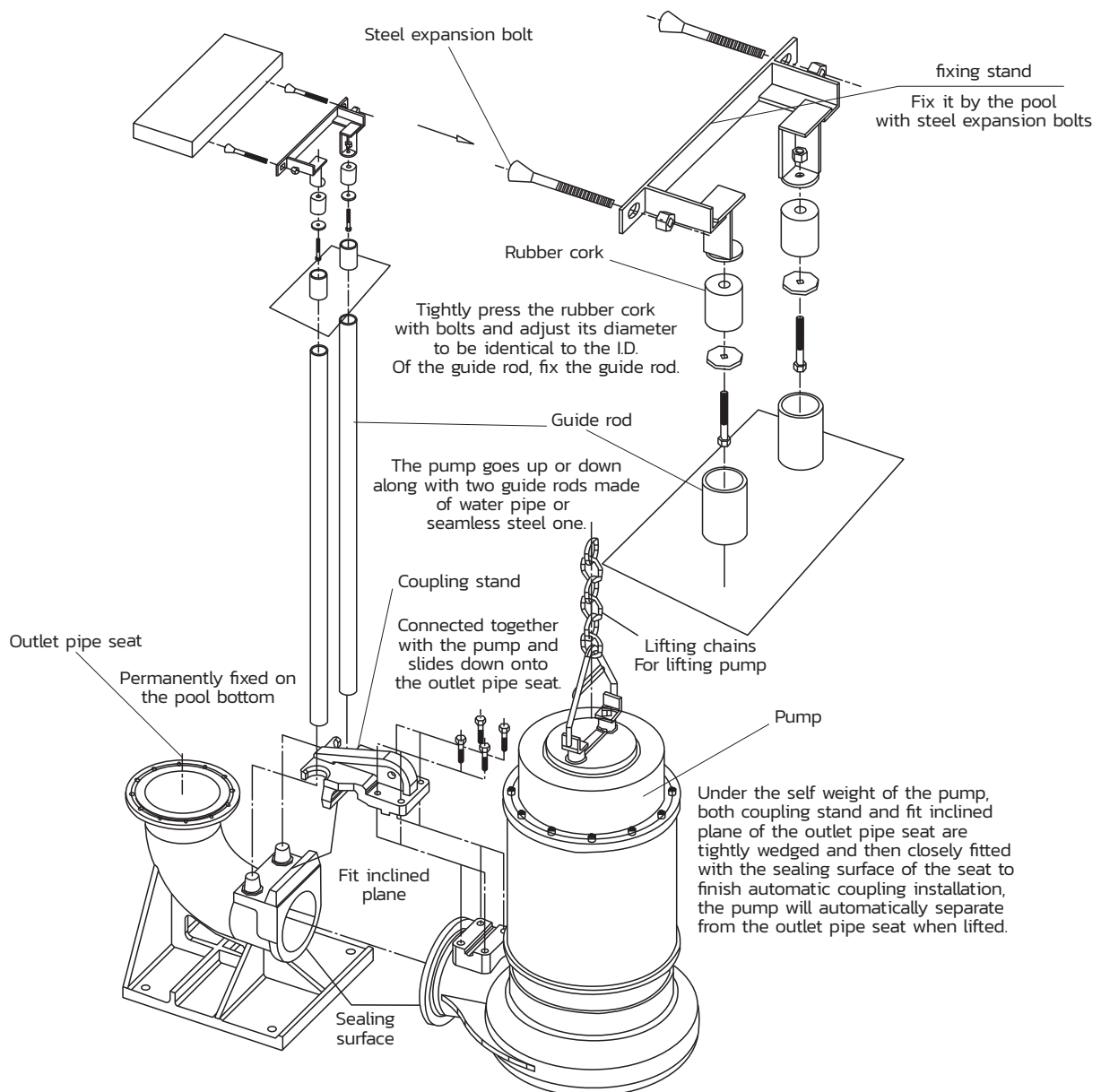


NO.	Type	Figure dimension													Wet installation			Dry installation			
		$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$N_2-\varnothing d$	H	O	L	Q	P	ExE	FxF	$N_1-\varnothing k$	H_1	H_4	H_5	L_1	H_2	H_3	H_4
1	700HWL4500-16-250	700	785	895	840	24- $\varnothing 31$	2750	760	1100	880	640	1350x1350	1500x1500	4- $\varnothing 50$	535	1000	2300	-	-	-	-
2	700HWL4500-13-220	700	785	895	840	24- $\varnothing 31$	2750	760	1100	880	640	1350x1350	1500x1500	4- $\varnothing 50$	535	1000	2300	-	-	-	-
3	800HWL5000-10-185	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1000	2400	-	-	-	-
4	800HWL5000-8-160	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1000	2400	-	-	-	-
5	800HWL5400-10-250	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1100	2400	-	-	-	-
6	800HWL5500-11-220	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1100	2400	-	-	-	-
7	800HWL5500-10-200	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1100	2400	-	-	-	-
8	800HWL5500-9-185	800	885	1015	950	24- $\varnothing 34$	2800	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	650	1100	2400	-	-	-	-
9	800HWL7920-15-500	800	885	1015	950	24- $\varnothing 34$	3928	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	1000	1650	3526	-	-	-	-
10	800HWL6500-10-250	800	885	1015	950	24- $\varnothing 34$	3928	820	1400	960	680	1500x1500	1700x1700	4- $\varnothing 50$	1000	1650	3526	-	-	-	-

Installation Modes for HWL Pump Models

The HWL submersible pump supports various installation methods, including auto-coupled, fixed dry-type, fixed wet-type, fixed foundation, movable soft-pipe, and movable hard-pipe configurations. Each method is designed for easy installation.

Detailed descriptions of each installation type are provided below.

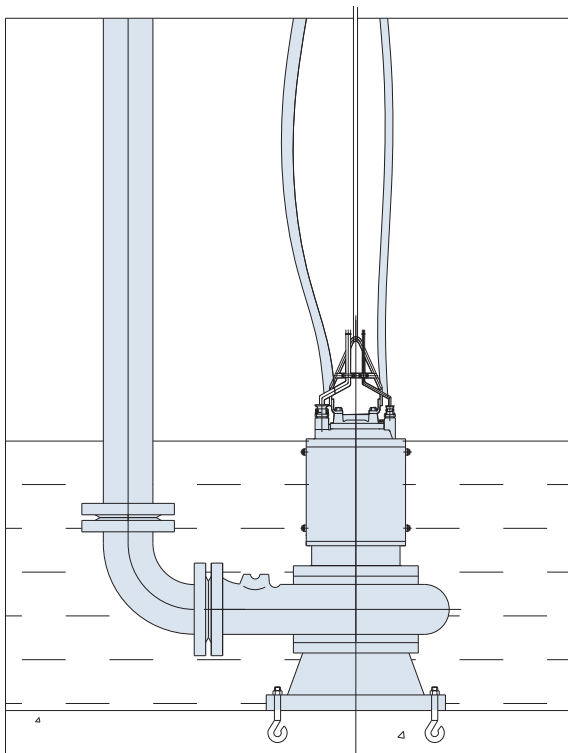


Fixed Wet-Type Installation

In this installation method, the pump house is separated from the water collection pond.

The foundation is fixed in place, and both the inlet and outlet pipes are connected before starting operation. Since the HWL pump is submersible, its performance is not affected even if the pump house becomes submerged.

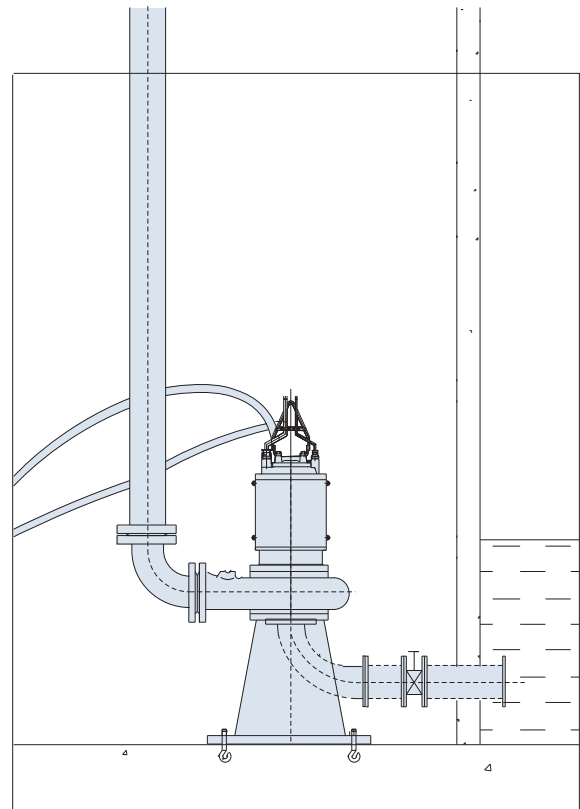
This installation type is commonly used when upgrading or retrofitting old pump stations.



Fixed Dry-Type Installation

In this method, the pump is installed on a support foundation and connected to the water outlet pipe before operation begins.

The foundation can be secured using foot bolts. However, if the outlet pipe provides sufficient structural rigidity, the bolts may be omitted to allow easier access for pump maintenance or repairs.





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