

LAIKO



AWD

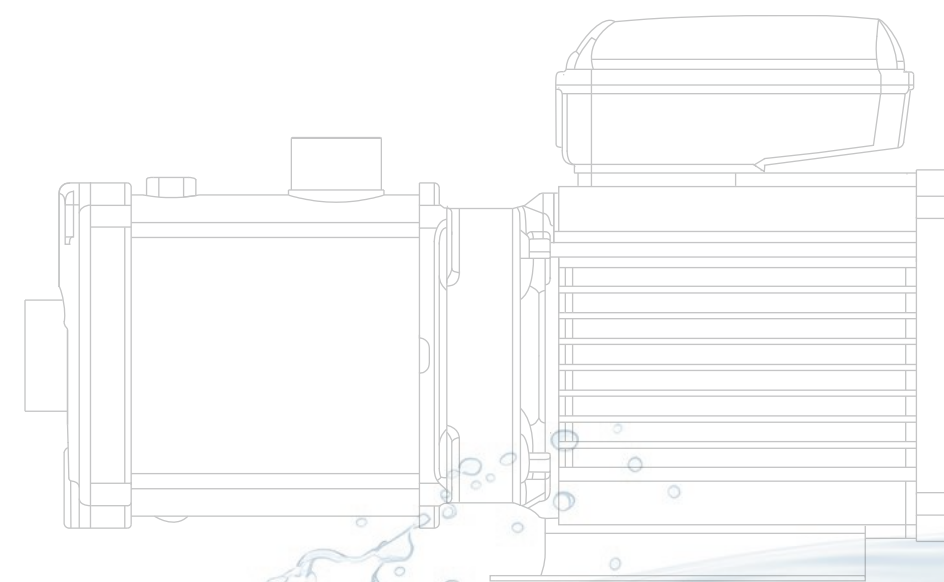
**Horizontal Multi-Stage
Centrifugal Pump Series**

LAIKO

AWD

Horizontal Multi-Stage Centrifugal Pump Series

PUMP AND SYSTEM SOLUTION PROVIDER



Superior in Pump, Superior in Energy-Saving.

www.Laikopump.com



LAIKO Laiko Pump
Pump and System Solution Provider

LAIKO Pump(Zhejiang) Co., Ltd. is a subsidiary of Zhejiang Dayuan Pumps Industrial Co., Ltd. (Stock code: 603757), focusing on the research and manufacturing of energy-saving pumps.

LAIKO's applications cover the fields of construction, municipal, and industrial sectors. Currently, we have product lines including Inline Multistage Pumps, Inline Circulation Pumps, Horizontal Multistage Pumps, Cold and Hot Water Circulation Pipeline Pumps, Single-Stage Centrifugal Pumps, Standard Centrifugal Pumps, Stainless steel Horizontal Single-Stage Centrifugal Pumps, Submersible Sewage Pumps, and Immersed Multistage Centrifugal Pumps. Our products are exported to many countries and regions in Europe, America, and Asia, meeting local legal requirements and obtaining recognition from clients.

A standard research and development, production, sales, and service system has laid the core competitiveness and sustainable development space for LAIKO. Reliable product quality and thoughtful after-sales service have earned LAIKO widespread reputation.

LAIKO maintains a pioneering spirit, always adheres to the concept of technological innovation, and never stops exploring energy-saving endeavors!

Research and manufacturing of energy-saving pumps, providing pump and system solutions

With over 34 years of accumulated strength, we have formed an alliance with top domestic water pump research and development, production, sales, and technical teams, Established Zhejiang Laiko Pump Industry Co., Ltd. (referred to as Zhejiang Leike), with comprehensive strength ranking among the top in the industry.

The second-generation green intelligent factory of Industry 4.0 standard covers an area of nearly 200 acres, with an annual output of over 7 million units and a total investment of over 1 billion yuan.

Zhejiang Laiko has established a comprehensive sales and service network nationwide, with direct offices in major cities. Our products are exported to multiple countries and regions in Europe, America, and Asia. China Laiko pumps globally.





R&D STRENGTH

346	29	242	75	6
Domestic patents	Invention Patent	New utility patent	Appearance patent	Overseas patents

As a brand under Dayuan Pump Group, we have a strong foundation with over 177 R&D personnel and more than 352 patents. Our products have been honored with titles such as "Zhejiang Famous Brand Product" and "Zhejiang Export Famous Brand," and are exported to multiple countries and regions across Europe, America, and Asia. Our comprehensive strength ranks among the top in the industry. Through years of continuous investment in research and development, we have established a significant technological innovation advantage.



SERVICE COOPERATION

We have established offices in major cities across the country, supported by a professional and efficient service team. From consultation, purchase, after-sales, to maintenance, we provide high-quality, professional, timely, and attentive services at every stage.

Guided by the principle of "wholehearted dedication and customer-first," we respond quickly to customer needs, offering precise product recommendations and tailored solutions. Our comprehensive and full-cycle services ensure a worry-free experience for our customers.

SERVICE TENET: With all our heart and soul, Putting customers first

SERVICE TENET: Rapid response, Precise solution

SERVICE OBJECTIVES: Efficient O&M, Win-Win Cooperation



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Horizontal Multi-Stage Centrifugal Pump Series



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LAIKO Laiko Pump (Zhejiang) Co., Ltd.

AWD

Horizontal Multi-Stage Centrifugal Pump Series

AWD is a non self suction horizontal multi-stage centrifugal pump, characterized by high efficiency, low noise, resistance to mild corrosion, compact structure, beautiful appearance, small volume, and light weight; The pump adopts axial suction and radial discharge, and the key flow components are made of stainless steel stamping and welding technology. The product is suitable for liquids that are thin, clean, non corrosive, non flammable and non explosive, and do not contain solid particles or fibers; When the density of the conveyed medium is greater than that of clean water, a high-power motor is required. Please consult our company for details.

LIQUID TEMPERATURE:

Room temperature type: -20 °C~+70 °C

Hot water type: -20 °C~+105 °C

Altitude: up to 1000m

Maximum ambient temperature: +40 °C

Maximum working pressure: 10 bar

APPLICATION FIELD

Cooling System

Air Conditioning System

Water Treatment (purification of water)

Industrial Cleaning System

Transport, Circulation, and Lifting of Liquids

Hot and Cold Water

Food and Beverage

Pharmaceutical Industry

TECHNICAL DATA

Flow range: 0.4~28m³/h

Head range: 7.5~66.5m

Power range: 0.37~4kW

Maximum working pressure: 10bar

Product Overview

Horizontal multistage centrifugal pumps are suitable for transporting thin, clean, non-corrosive, non-flammable, non-explosive liquids that do not contain solid particles or fibers. It has a wide range of applications, including:

- Cooling systems;
- Air conditioning systems;
- Water treatment: purification of water;
- Industrial cleaning systems;
- Liquid transport, circulation, and boosting: for general liquid handling and movement;
- Hot and cold water;
- Food and beverage industry, pharmaceutical industry.

Operating Conditions

Liquids: thin, clean, non-corrosive, non-flammable, non-explosive, and free of solid particles and fibers. When the density of the liquid is greater than water, a higher power motor is required; for details, consult us please.

Liquid temperature range:

- 20°C~+70°C(common)
- 20°C~+105°C(hot water)

Maximum operating pressure: 10 bar

Maximum altitude: 1000 meters

Maximum ambient temperature: +40°C

Maximum suction lift: depending on the pump NPSH (cavitation allowance) , medium temperature, installation location, sea level and the import pipeline loss and other factors.

Maximum inlet pressure: limited by the maximum working pressure.

Motor

The pump is equipped with fully enclosed, air-cooled, squirrel cage motor.

Protection class: IP55

Insulation class: F

Standard voltage: 1X220-240V, 50Hz
1X380-415V, 50Hz

The maximum power of single-phase motor is 2.2kW.

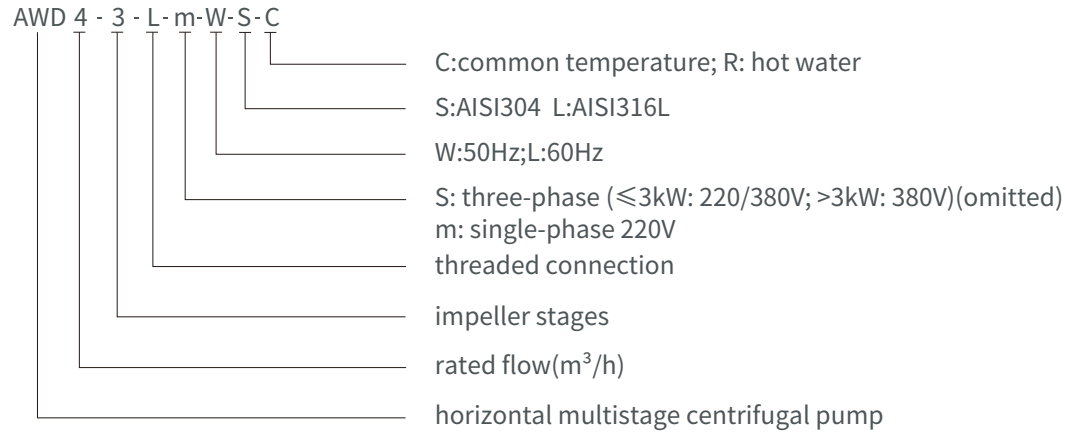
Single-phase motor is equipped built-in thermal overload protection, and three-phase motor must be in accordance with local regulations connected to the motor starter.

Curve Conditions

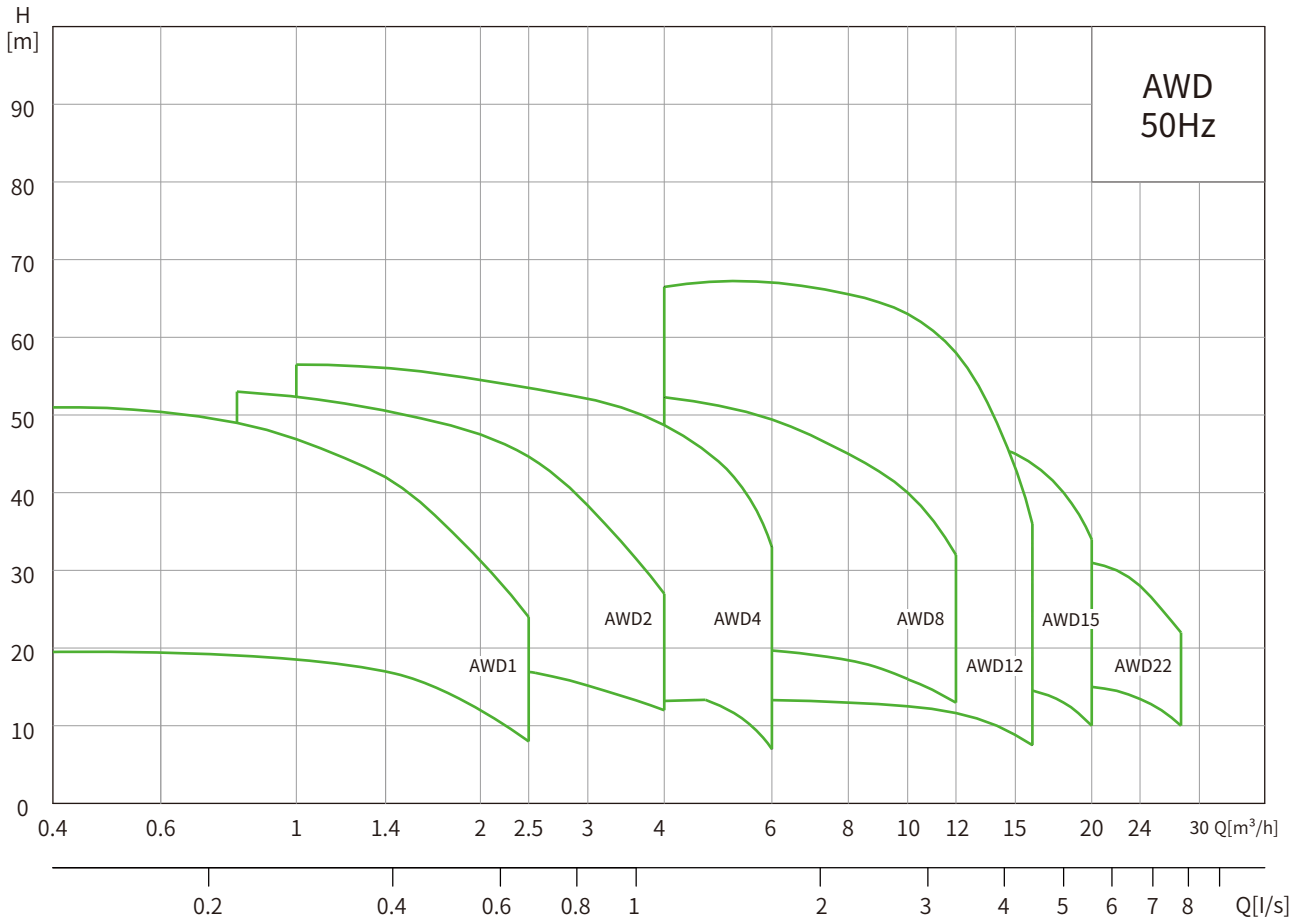
The following description applies to the curves shown below:

1. All curves are based on motor measurements at a constant speed of 2900 rpm.
2. The curve tolerance conforms to ISO 9906:2012.
3. The test used 20°C water without air and the kinematic viscosity was 1 mm²/s.
4. The use of pump can refer to the performance range of adding thick curve, in order to prevent the flow is too small to produce overheating or excessive flow motor overload.

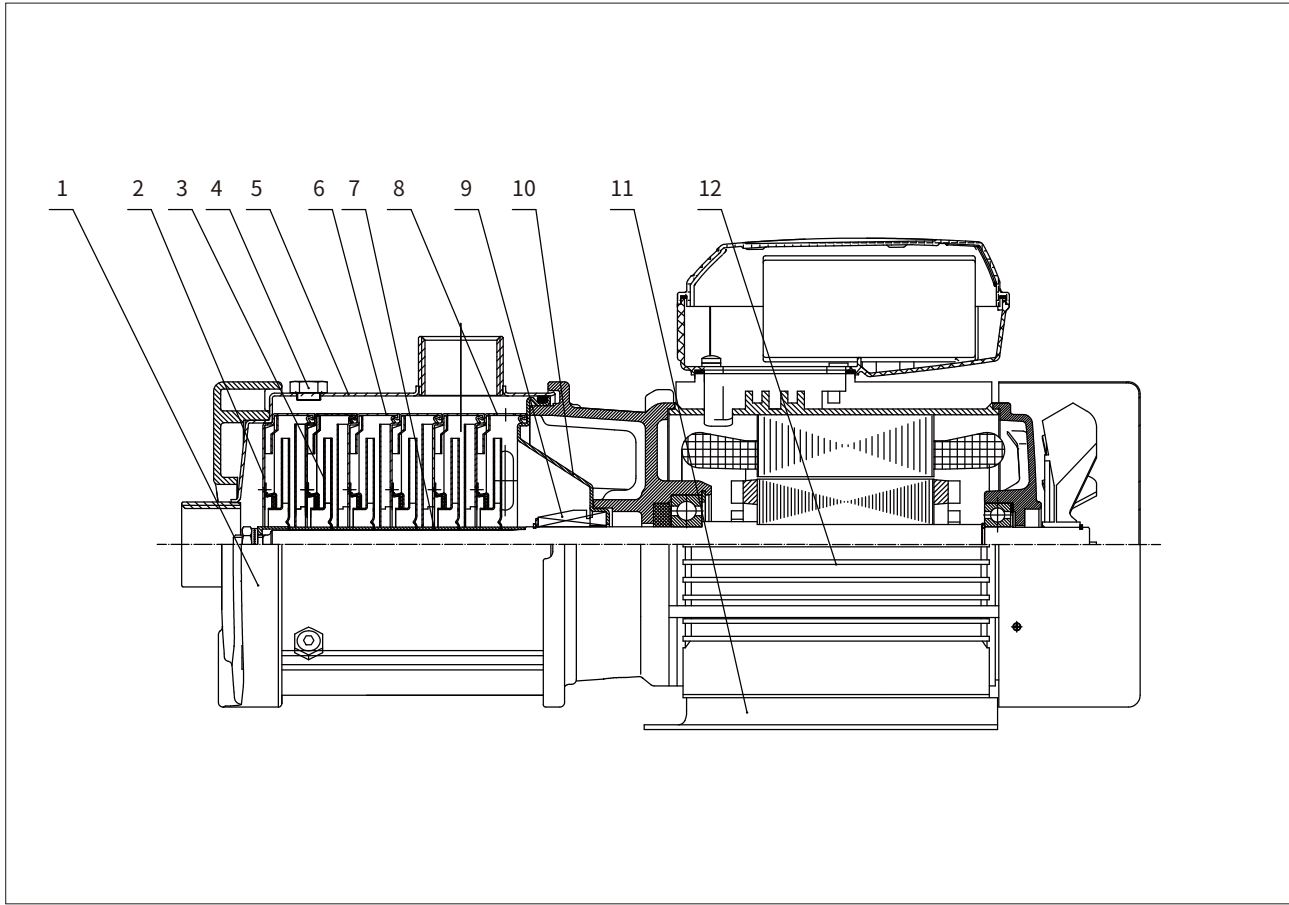
Model Description



Performance Range

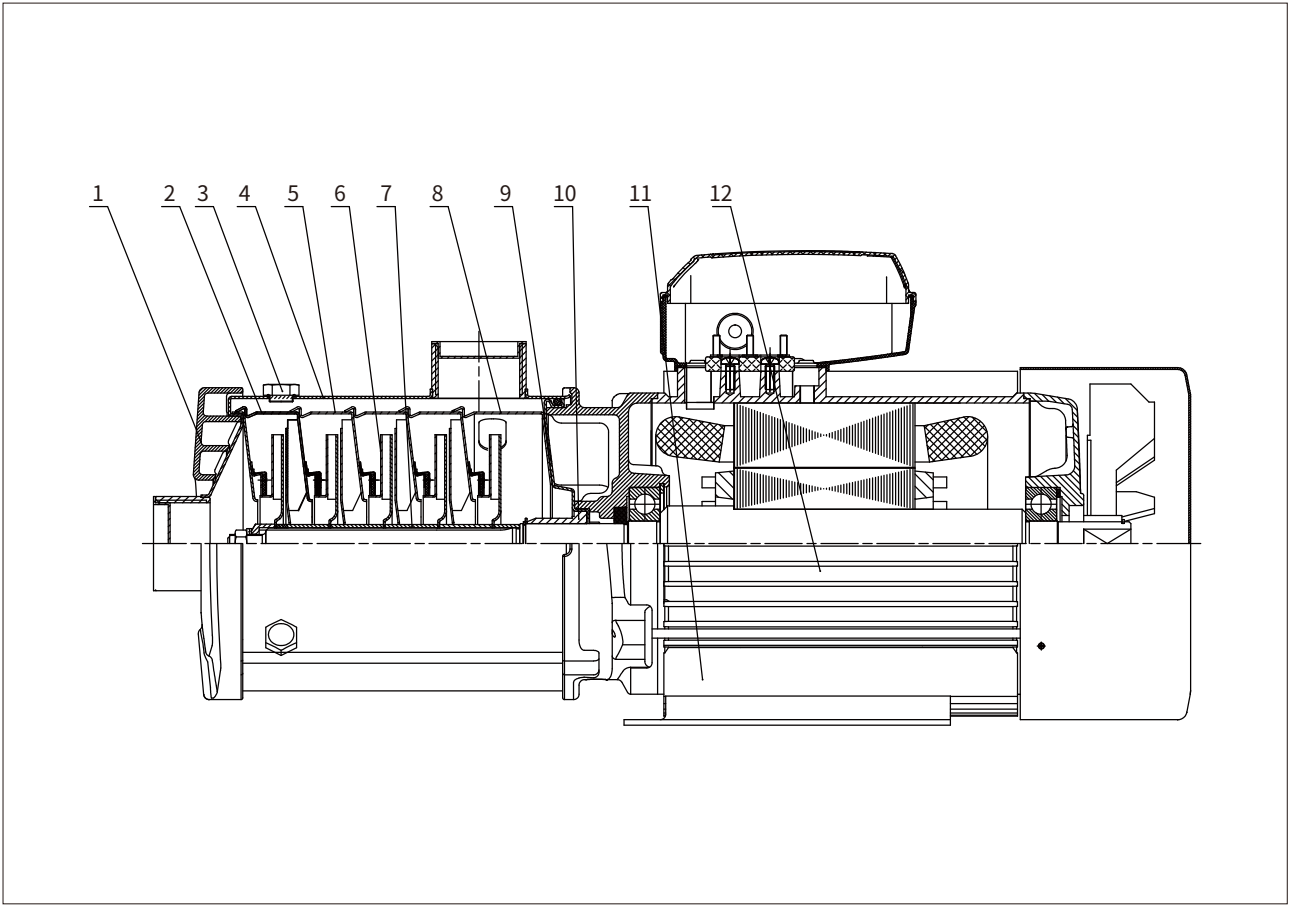


AWD1,2,4 Structural Diagram



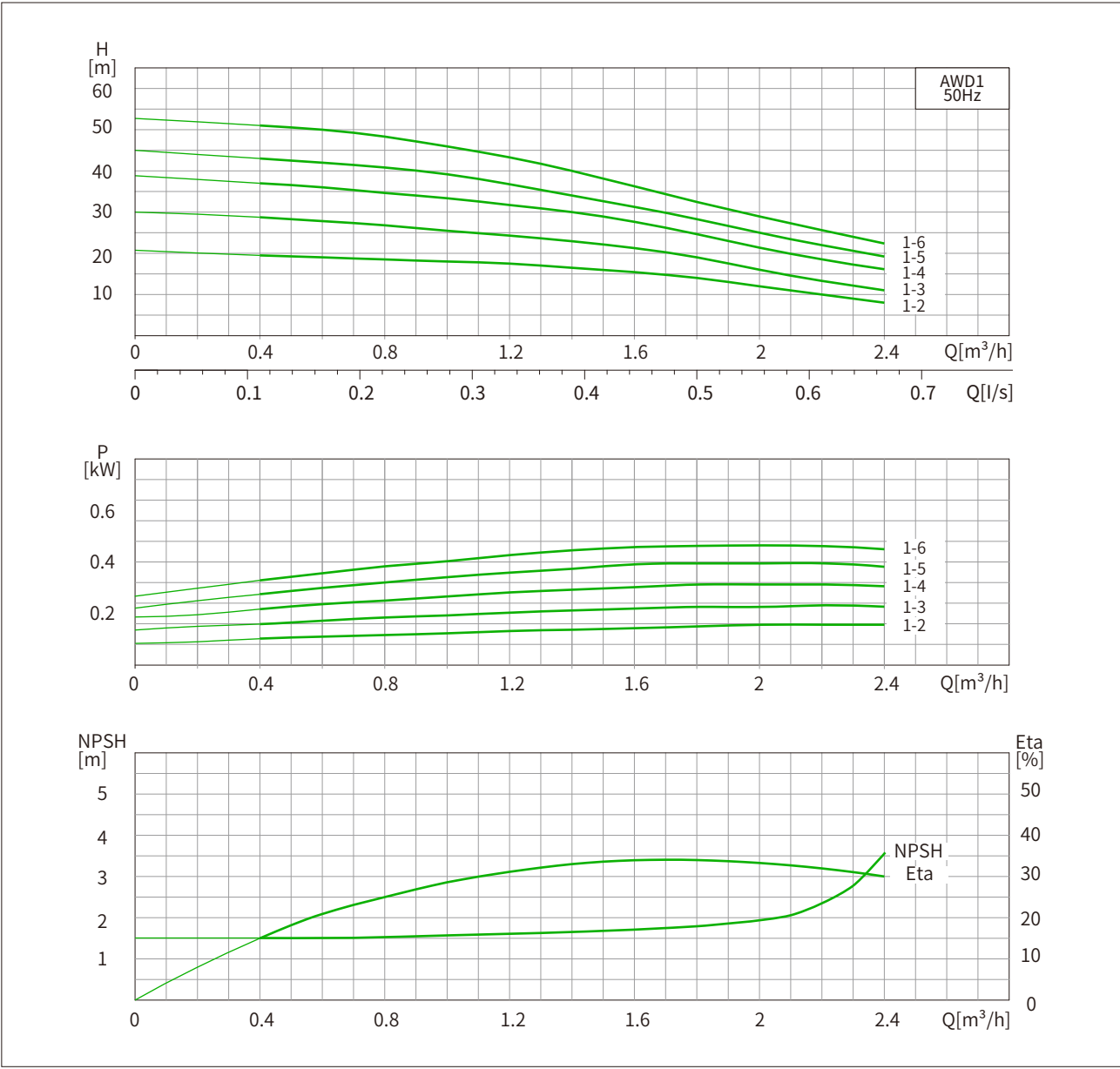
NO.	Name	Materials	GB	AISI/ASTM
1	Pump Cover	Die-cast Aluminum	GB/T 15115-YL113	ASTM383.1
2	First Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
3	Impeller	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
4	Plug	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
5	Pump Body	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
6	Medium Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
7	Axle Sleeve	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
8	Final Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
9	Mechanical Seal	/	/	/
10	Connection Cover	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
11	Base Plate	Steel Plate	/	/
12	Motor	/	/	/

AWD8,12,15,25 Structural Diagram



NO.	Name	Materials	GB	AISI/ASTM
1	Pump Cover	Die-cast Aluminum	GB/T 15115-YL113	ASTM383.1
2	First Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
3	Plug	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
4	Impeller	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
5	Pump Body	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
6	Medium Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
7	Axle Sleeve	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
8	Final Diffuser	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
9	Mechanical Seal	/	/	/
10	Connection Cover	Stainless Steal	GB/T 20878-06Cr19Ni10	AISI304
11	Base Plate	Steel Plate	/	/
12	Motor	/	/	/

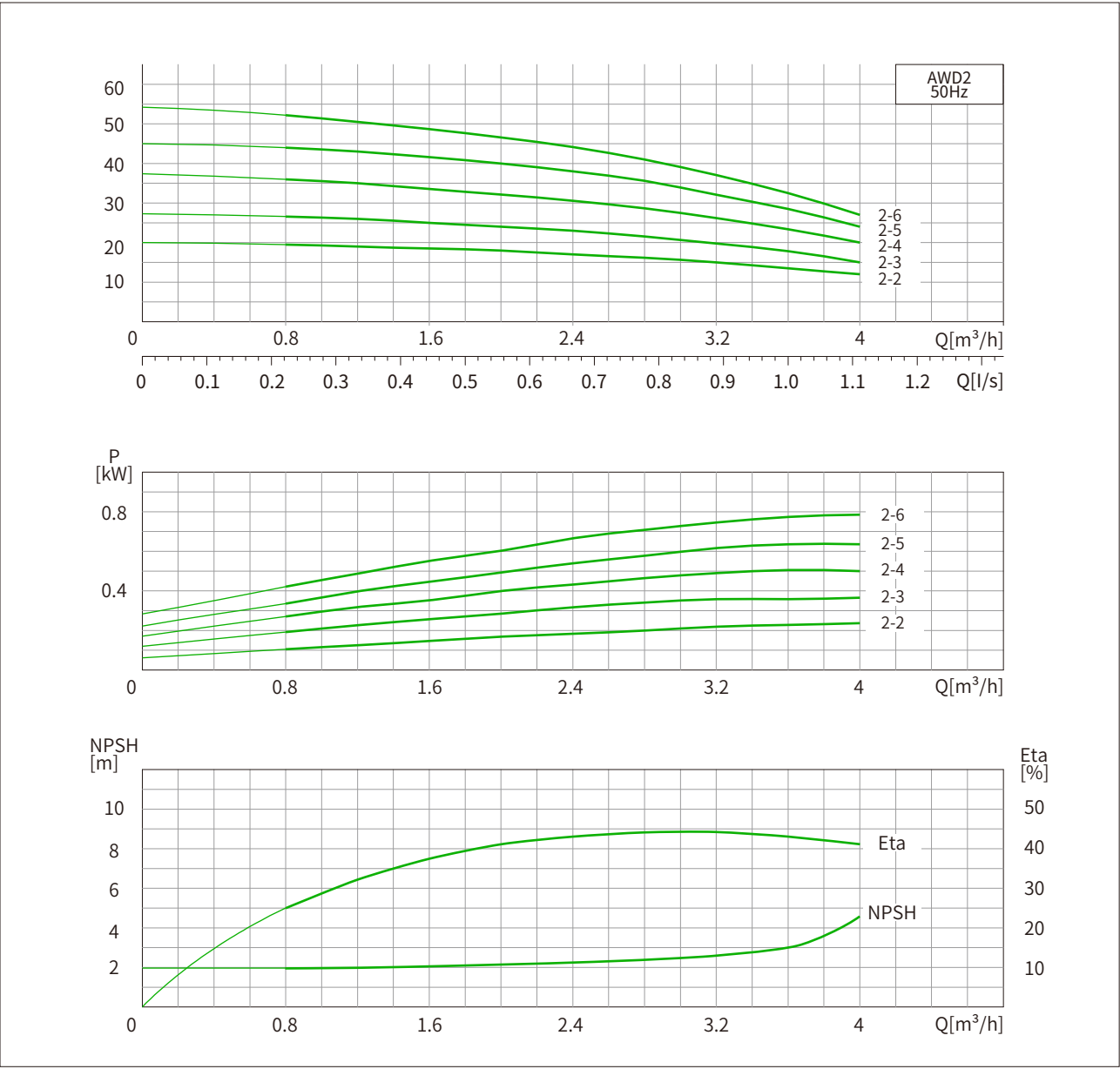
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h)	0.4	0.6	0.8	1	1.2	1.4	1.8	2	2.4
	(kW)	(HP)	l/min	7	10	13	17	20	23	30	33	40
AWD1-2	0.37	0.5	H(m)	19.5	19	18.5	18	17.5	17	14	12	8
AWD1-3	0.37	0.5		29	28.5	26	25	24.5	23.5	19	16	11
AWD1-4	0.37	0.5		37	36	35	33	32	30	26	20	17
AWD1-5	0.37	0.5		43	42	41	40	36	34	27	22	20
AWD1-6	0.37	0.5		51	50	49	46	44	42	32	26	24

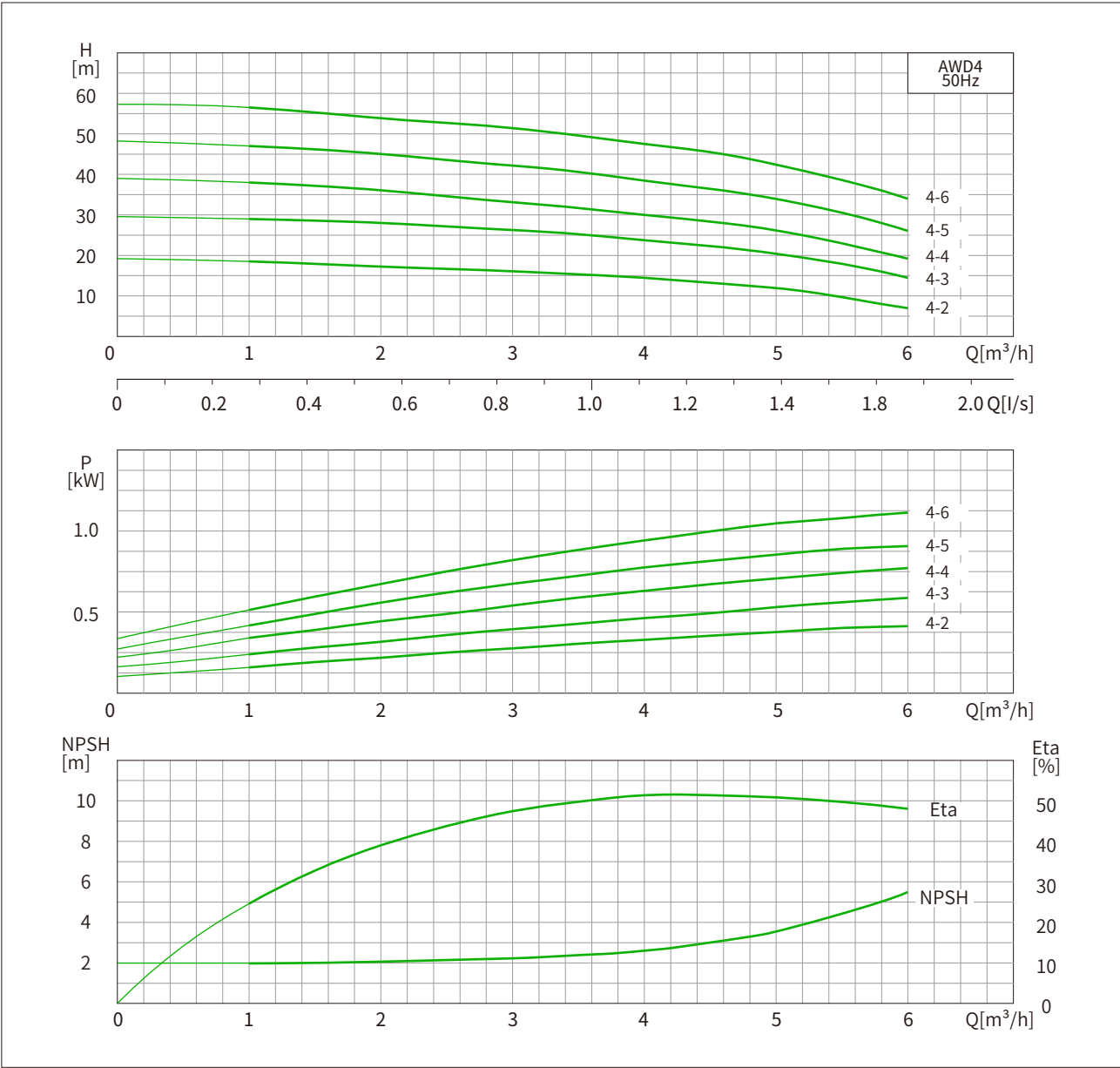
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h)	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	(kW)	(HP)	l/min	13	20	27	33	40	47	53	60	67
AWD2-2	0.37	0.5	H(m)	19.5	19	18.5	18	17	16.5	14.5	13.5	12
AWD2-3	0.37	0.5		27	26	25	24	23	22	20	17	15
AWD2-4	0.55	0.75		36	35	34	32	31	29	27	23	20
AWD2-5	0.55	0.75		44	43	42	40	38	36	33	28.5	24
AWD2-6	0.75	1		53	51.5	48	47	45	41	36	31.5	27

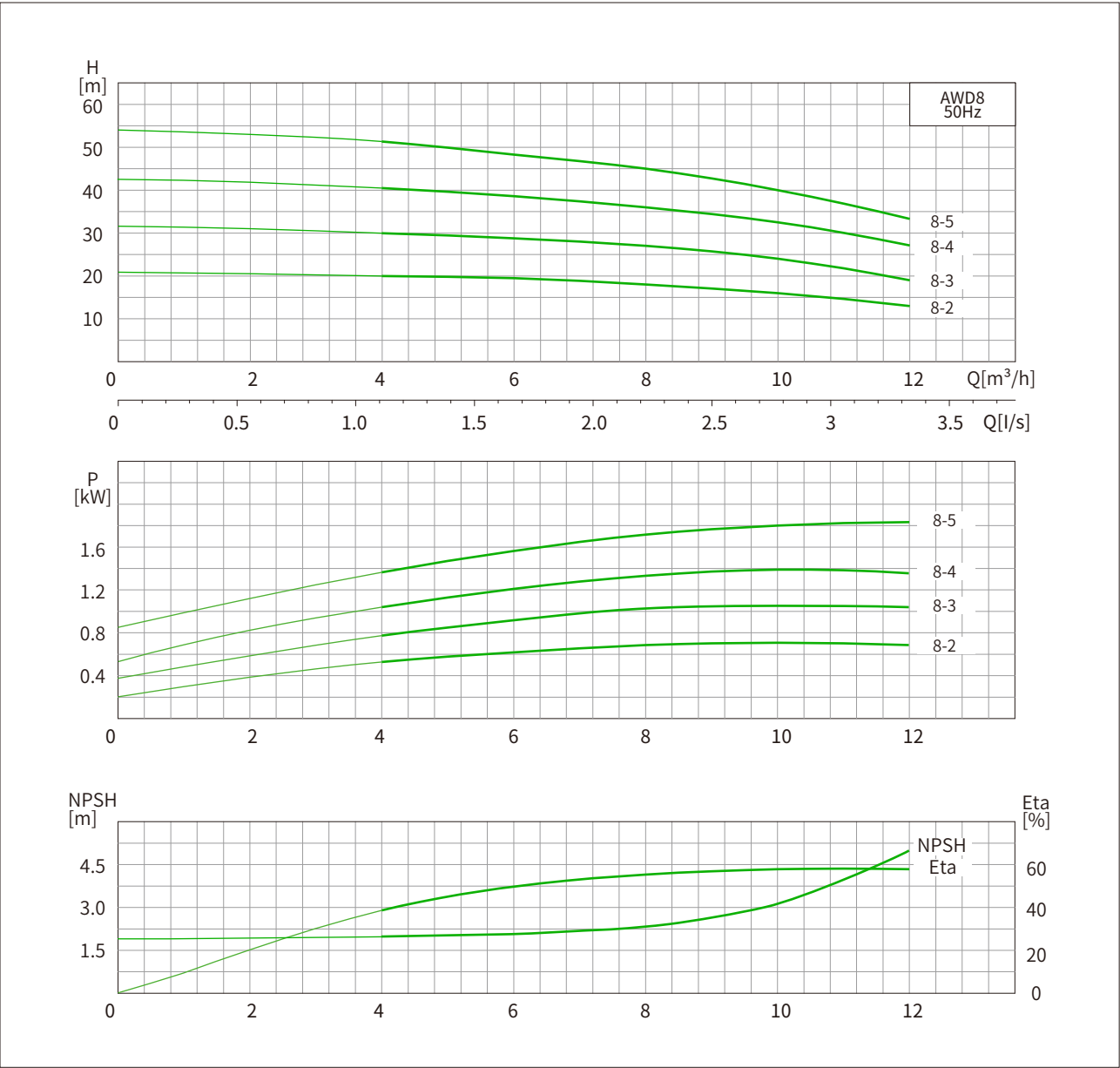
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h)	1	1.6	2.2	2.8	3.4	4	4.6	5.2	5.8	6
	(kW)	(HP)		17	27	37	47	57	67	77	87	97	100
AWD4-2	0.55	0.75	H(m)	18.5	18	17	16	15.5	15	13.5	12	8	7
AWD4-3	0.55	0.75		29	28.5	28	26	25.5	25	23	21	16	14
AWD4-4	0.75	1		38	37	36	33	32	30	28	26	20	18
AWD4-5	1.1	1.5		47	46	45	43	41	40	36	34	28	25
AWD4-6	1.1	1.5		56.5	55	54	52	51	49	45	42	36	33

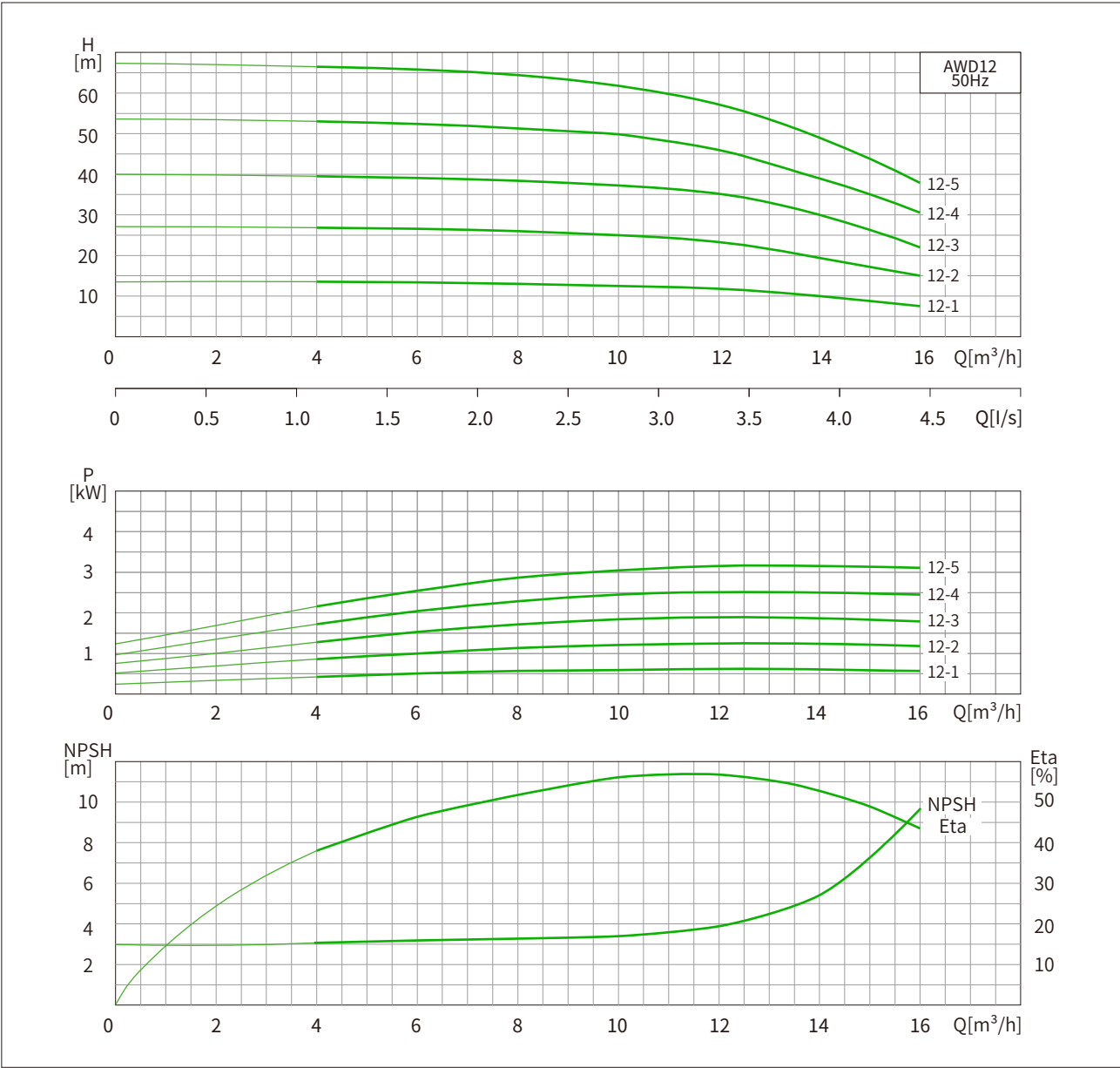
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h)	4	6	7	8	9	10	12
	(kW)	(HP)		67	100	117	133	150	167	200
AWD8-2	0.75	1	H(m)	20	19.5	19	18	17	16	13
AWD8-3	1.1	1.5		30	29.5	28	27	26	24	19
AWD8-4	1.5	2		40.5	39.5	37	36	34	32	26
AWD8-5	2.2	3		51	50	48	45	43	40	32

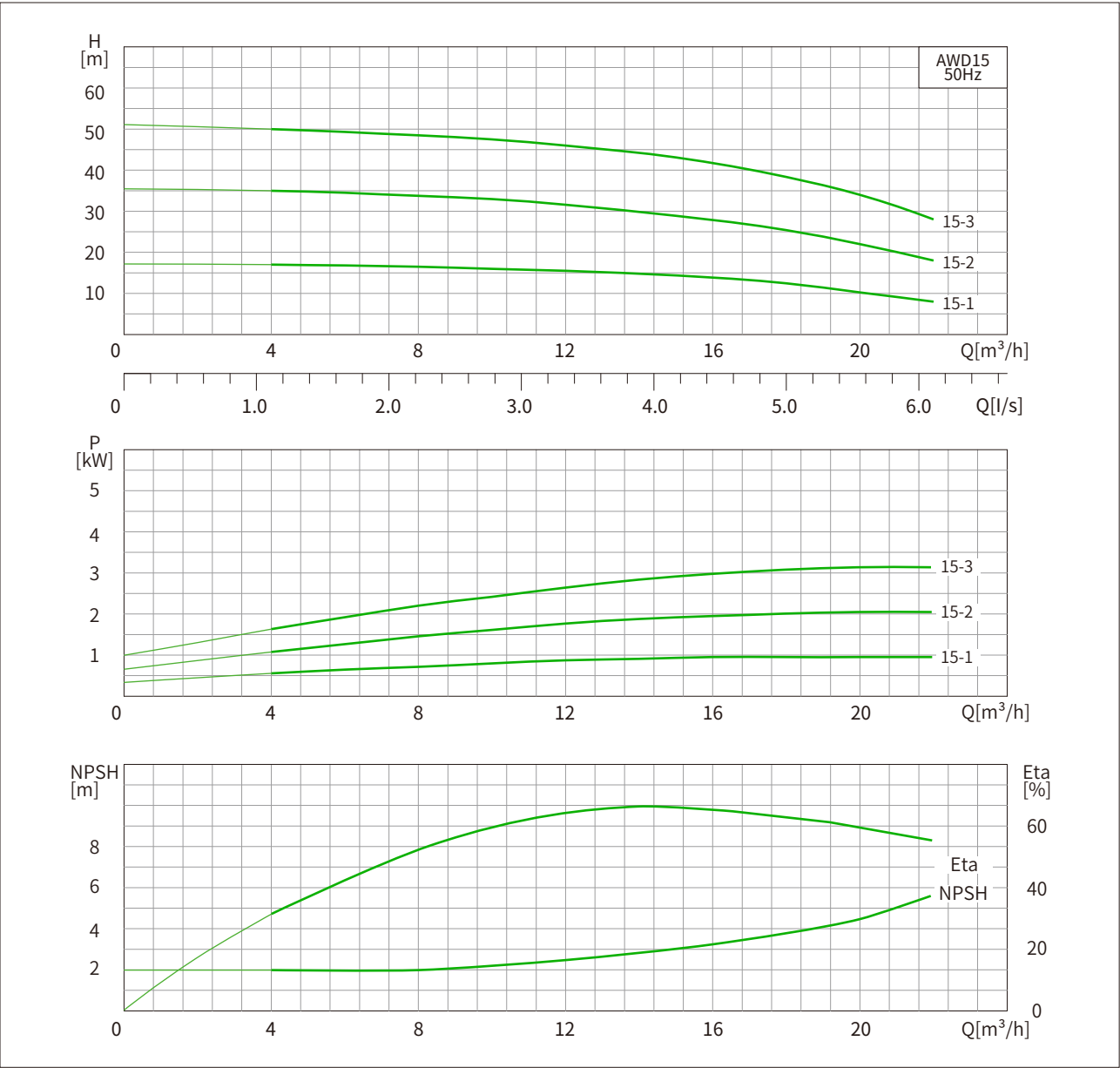
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h) l/min	4	8	10	12	14	16
	(kW)	(HP)		67	133	167	200	233	266
AWD12-1	0.75	1	H(m)	13.2	13	12.5	12	10	7.5
AWD12-2	1.1	1.5		26.5	26	25.5	24	20	15
AWD12-3	2.2	3		39.5	39	38	36	30	22
AWD12-4	3	4		53	52	50	47	39	29
AWD12-5	3	4		66.5	65	63	58	49	36

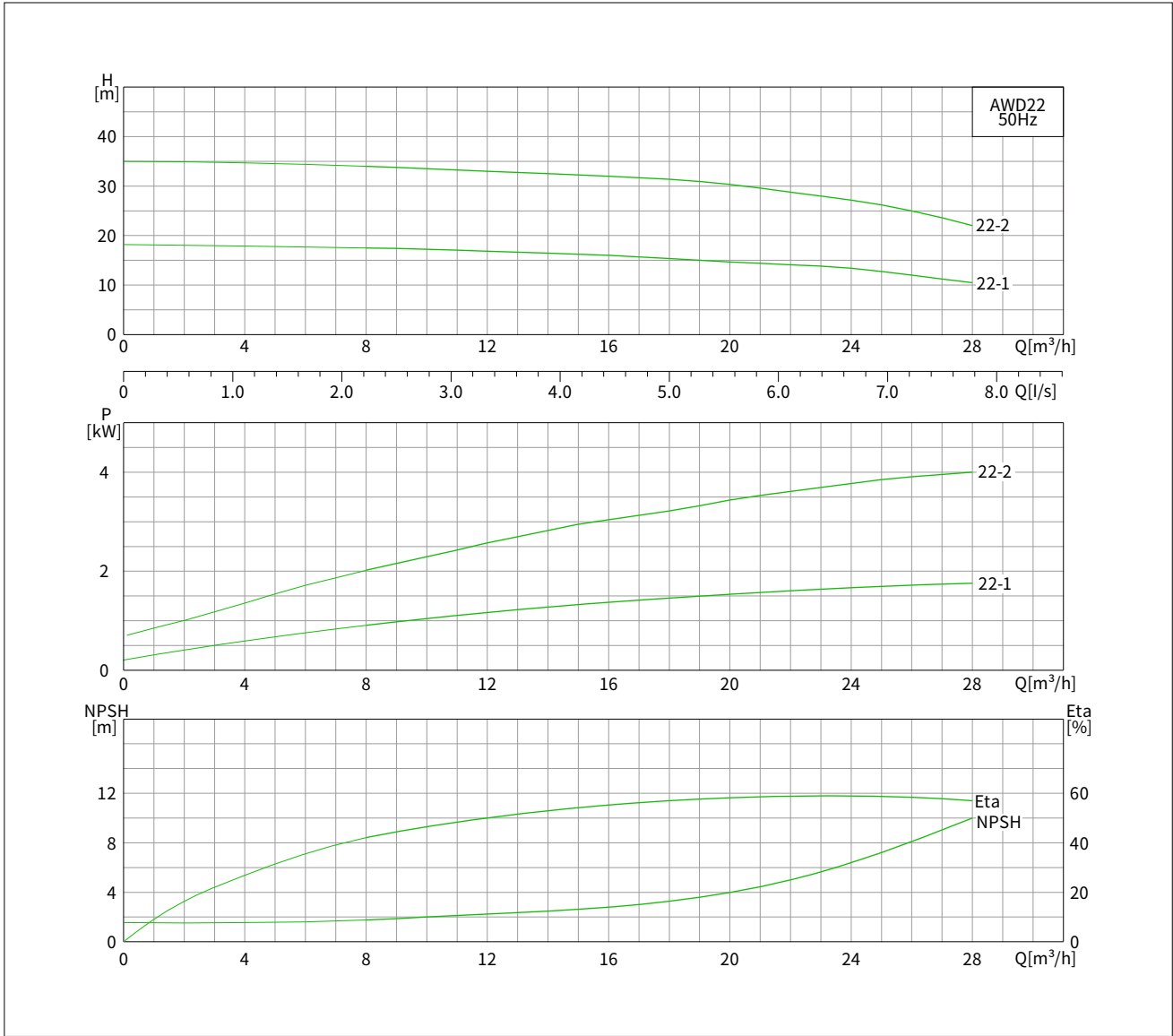
Performance Curve Description



Basic Parameters

Model	Power		Flow(m³/h) l/min	4	6	8	10	12	15	18	20	22
	(kW)	(HP)		67	100	133	167	200	250	300	333	367
AWD15-1	1.1	1.5	H(m)	17	16.8	16.5	16	15.5	15	13	10	8
AWD15-2	2.2	3		35	34.5	34	33.5	32	30	26	22	18
AWD15-3	4	5.5		50	49	48	47.5	46	45	40	34	28

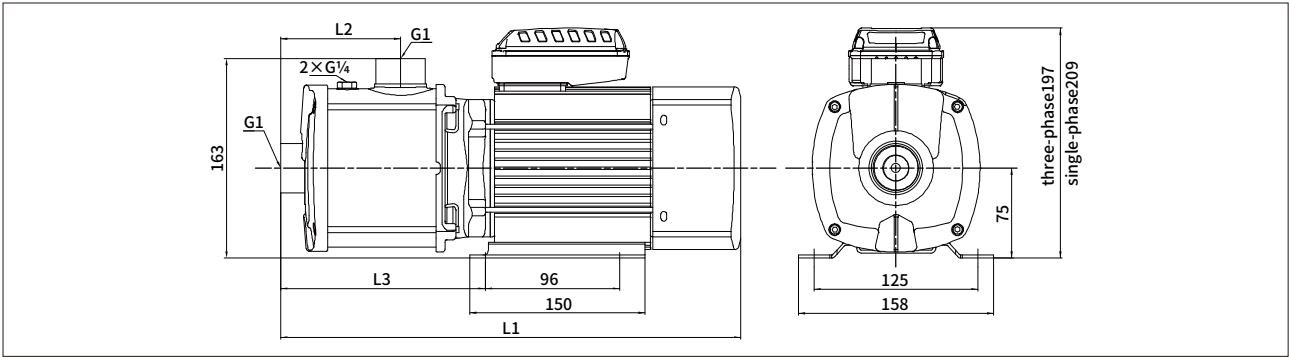
Performance Curve Description



Basic Parameters

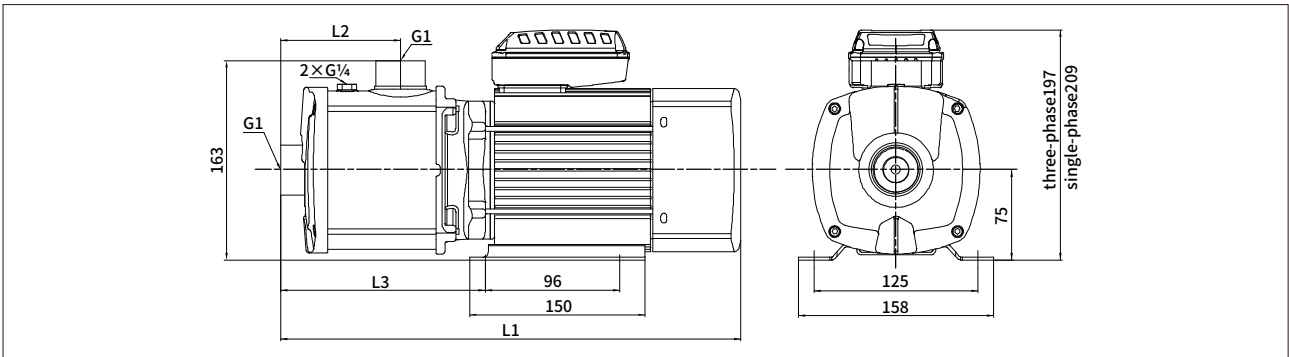
Model	Power		Flow(m³/h)	8	10	12	16	20	22	24	26	28
	(kW)	(HP)		133	167	200	267	333	367	400	433	467
AWD22-1	2.2	3	H(m)	17.5	17	16.5	16	15	14.5	14	12	10
AWD22-2	4	5.5		34	33.5	33	32	31	30	28	25	22

Installation Dimension Description



Model	Dimension (mm)			Packing box size (mm)	Weight(kg)
	L1	L2	L3	Length × Width × Height	
AWD1-2	351	71	166	401×220×275	9.6
AWD1-3	351	71	166	401×220×275	9.8
AWD1-4	369	89	184	419×220×275	10.2
AWD1-5	387	107	202	437×220×275	10.4
AWD1-6	405	125	220	455×220×275	10.6

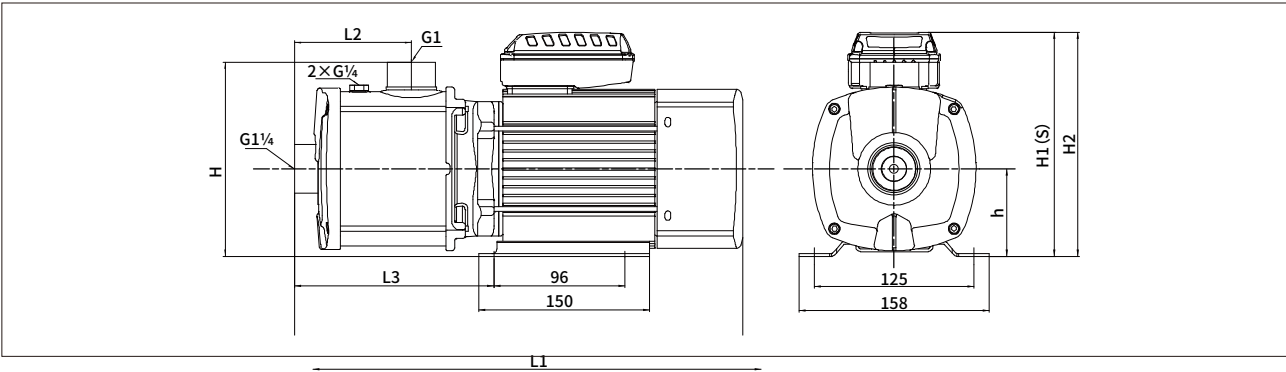
Installation Dimension Description



Model	Dimension (mm)			Packing box size (mm)	Weight(kg)
	L1	L2	L3	Length × Width × Height	
AWD2-2	351	71	166	401×220×275	9.6
AWD2-3	351	71	166	401×220×275	9.6
AWD2-4	369	89	184	419×220×275	10.7
AWD2-5	387	107	202	437×220×275	11.5
AWD2-6	405	125	220	455×220×275	12.4

Installation Dimension Description

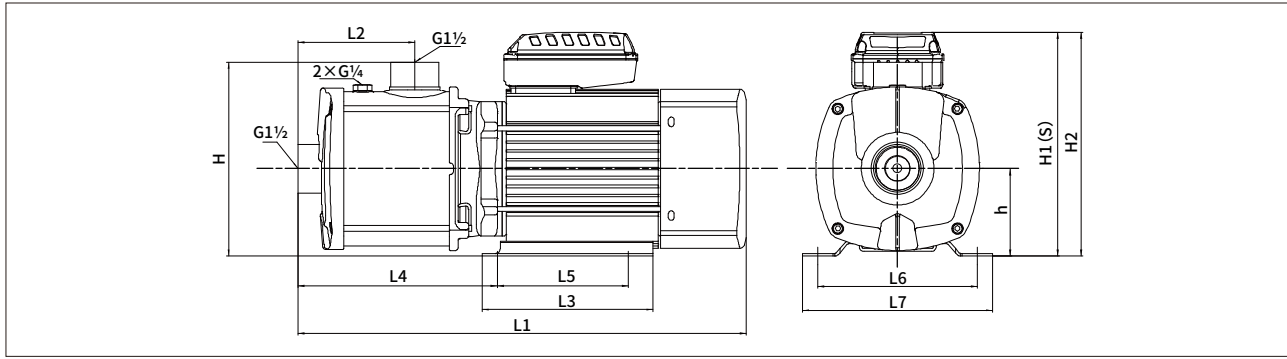
H1(S): single-phase pump height H2:three-phase pump height



Model	Dimension (mm)							Packing box size (mm) Length × Width × Height	Weight(kg)
	L1	L2	L3	h	H	H2	H1(S)		
AWD4-2	351	71	166	75	163	209	197	401×220×275	10.7
AWD4-3	351	71	166	75	163	209	197	401×220×275	10.9
AWD4-4	369	89	184	75	163	209	197	419×220×275	11.5
AWD4-5	413	107	197	90	179	232	220	455×220×275	14.3
AWD4-6	431	125	215	90	179	232	220	470×220×275	15.6

Installation Dimension Description

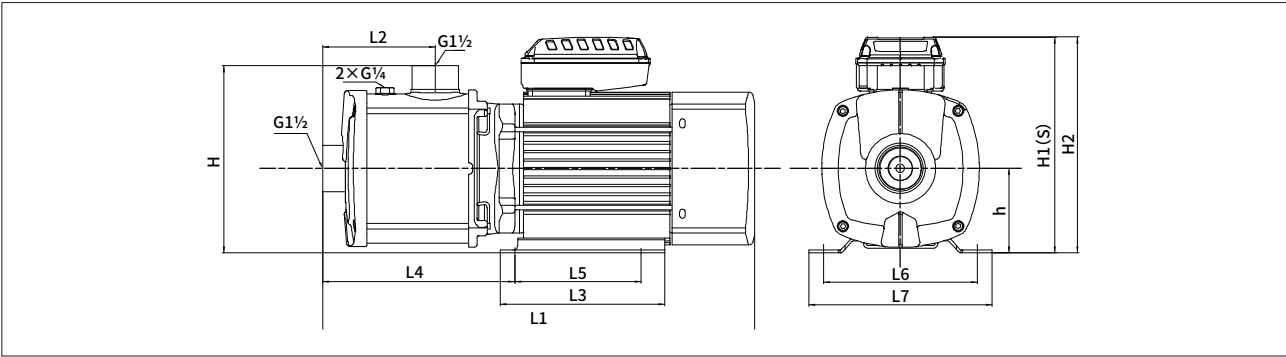
H1(S): single-phase pump height H2:three-phase pump height



Model	Dimension (mm)											Packing box size (mm) Length × Width × Height	Weight(kg)
	L1	L2	L3	L4	L5	L6	L7	h	H	H1(S)	H2		
AWD12-1	407	90	150	194	96	125	158	90	200	220	232	445×280×310	13.2
AWD12-2	407	90	150	194	96	125	158	90	200	220	232	445×280×310	16.2
AWD12-3	474	120	180	213	141	165	200	90	200	231	243	515×280×310	22.3
AWD12-4	539	150	180	257	140	189	230	100	208	/	265	575×280×310	28
AWD12-5	569	180	180	287	140	189	230	100	208	/	265	605×280×310	28.6

Installation Dimension Description

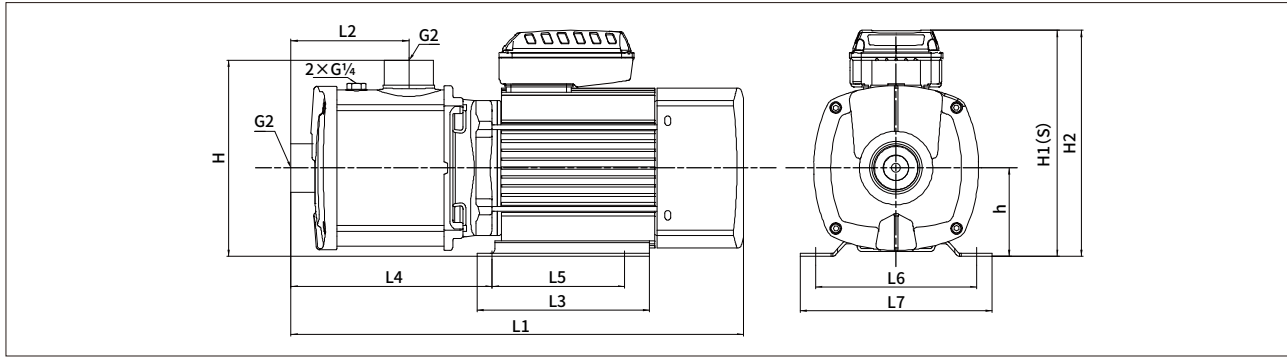
H1(S): single-phase pump height H2:three-phase pump height



Model	Dimension (mm)											Packing box size (mm) Length × Width × Height	Weight(kg)
	L1	L2	L3	L4	L5	L6	L7	h	H	H1(S)	H2		
AWD8-2	407	90	150	194	96	125	158	90	200	220	232	445×280×310	16.2
AWD8-3	437	120	150	224	96	125	158	90	200	220	232	515×280×310	22.3
AWD8-4	504	150	180	243	141	165	200	90	202	231	243	575×280×310	28
AWD8-5	534	180	180	273	141	165	200	90	202	231	243	605×280×310	28.6

Installation Dimension Description

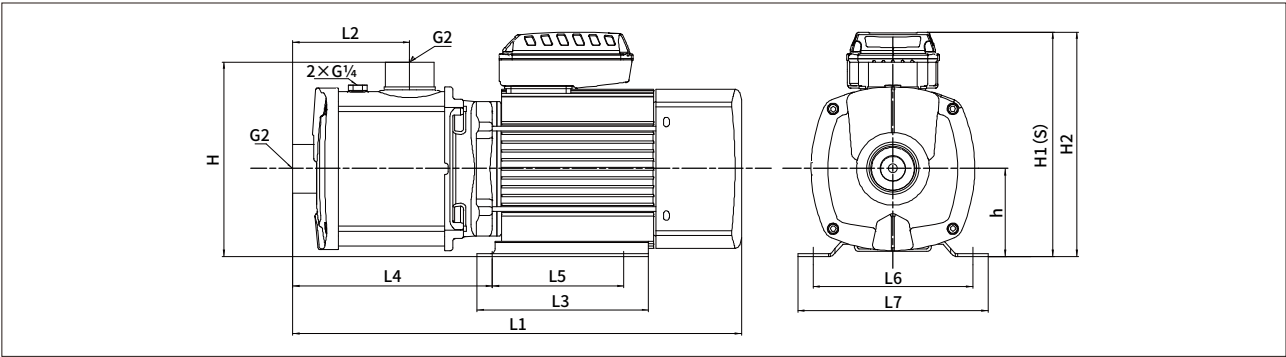
H1(S): single-phase pump height H2:three-phase pump height



Model	Dimension (mm)											Packing box size (mm) Length × Width × Height	Weight(kg)
	L1	L2	L3	L4	L5	L6	L7	h	H	H1(S)	H2		
AWD15-1	407	90	150	194	96	125	158	90	202	220	232	445×280×310	15.6
AWD15-2	444	90	180	183	141	165	200	90	202	231	243	485×280×310	21.5
AWD15-3	509	120	180	227	140	189	230	100	210	/	265	545×280×310	30

Installation Dimension Description

H1(S): single-phase pump height H2:three-phase pump height



Model	Dimension (mm)										Packing box size (mm)		Weight(kg)
	L1	L2	L3	L4	L5	L6	L7	h	H	H1(S)	H2	Length×Width×Height	
AWD22-1	444	90	180	183	141	165	200	90	202	231	243	485×280×310	21.2
AWD22-2	434	120	180	152	140	189	230	100	210	/	265	515×280×310	29

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