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LAIKO

AWT(S)



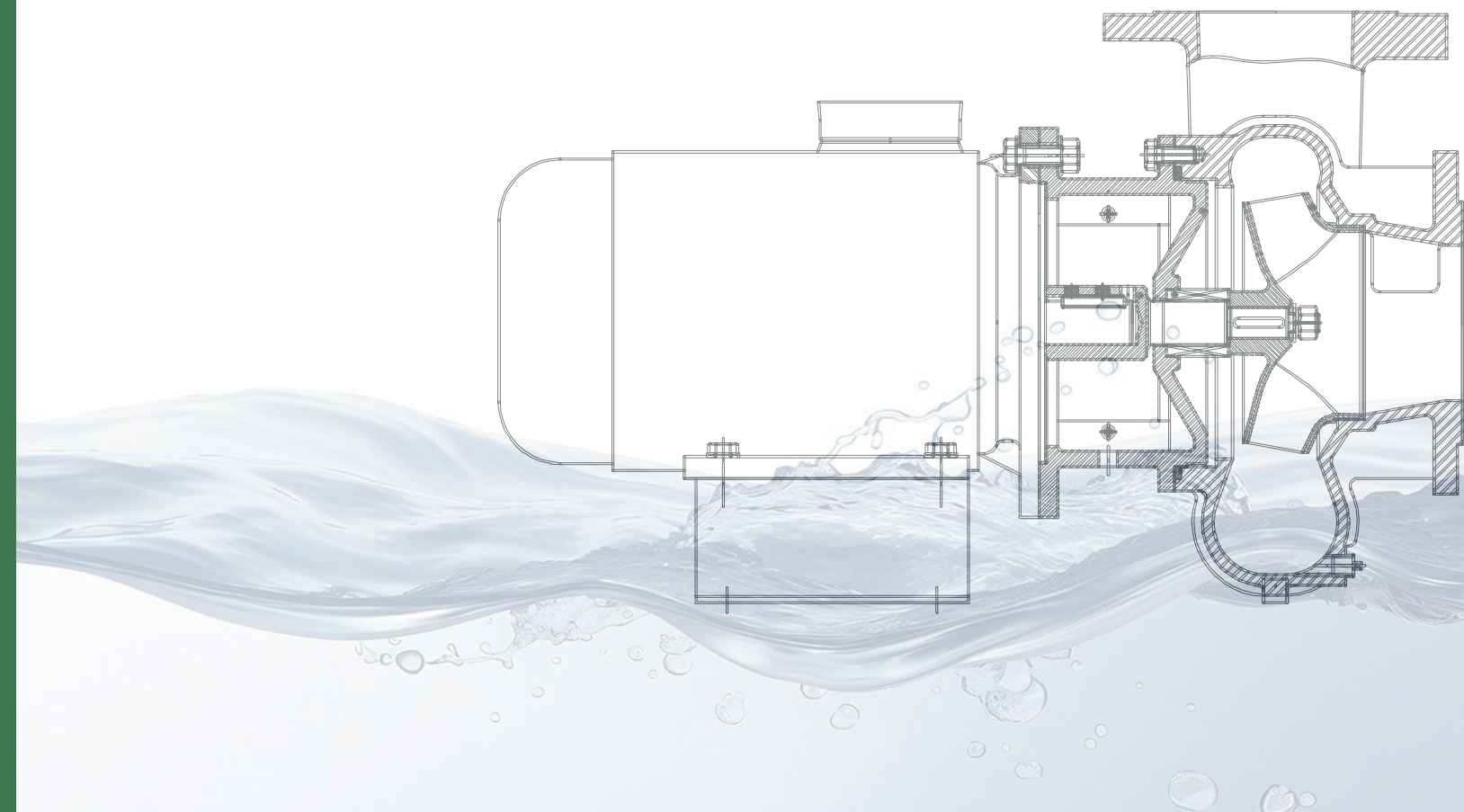
**HORIZONTAL COOLING
TOWER DEDICATED PUMP**

LAIKO

AWT(S)

HORIZONTAL COOLING TOWER DEDICATED PUMP

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



LAIKO

AWT/AWTS

Horizontal Cooling Tower Dedicated Pump



Superior in Pump, Superior in Energy-Saving.
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LAIKO Laiko Pump (Zhejiang) Co., Ltd.

AWT/AWTS

Horizontal Cooling Tower Dedicated Pump

The pump is non-self-priming, single-stage, single-suction, horizontally mounted, with axial water intake and radial water discharge. The motor is fixed to the base, eliminating the need for additional support installation at the pump end, making installation convenient.

It adopts a rear-pull structure, making maintenance convenient.

The AWT pump shaft and motor shaft are connected coaxially, occupying a small area and having a light weight. AWTS adopts a direct elongated shaft structure.

The impeller and pump body are designed with excellent hydraulic models, and the optimal operating conditions are customized according to market demand, resulting in high efficiency.

The key components such as the impeller and pump shaft are all made of stainless steel.

The casting adopts resin sand casting process, with smooth surface, good appearance quality, and dense structure.

The product is suitable for clean, thin, non-corrosive, non-flammable, and explosive-free liquids that do not contain any particles or fibers that could cause mechanical or chemical damage to the pump. The pump performance curve will decrease and the energy consumption will increase if it's used in liquids with high viscosity or density.

Liquid temperature: -15°C~100°C

Ambient temperature: up to 40°C

Maximum working pressure: 6bar

The motor is fully enclosed and air-cooled.

Protection class: IP55

Insulation class: F

Standard voltage: 50Hz: 1×220V
3×380V

APPLICATION FIELD

Closed Cooling Tower

Water Circulation of Condenser

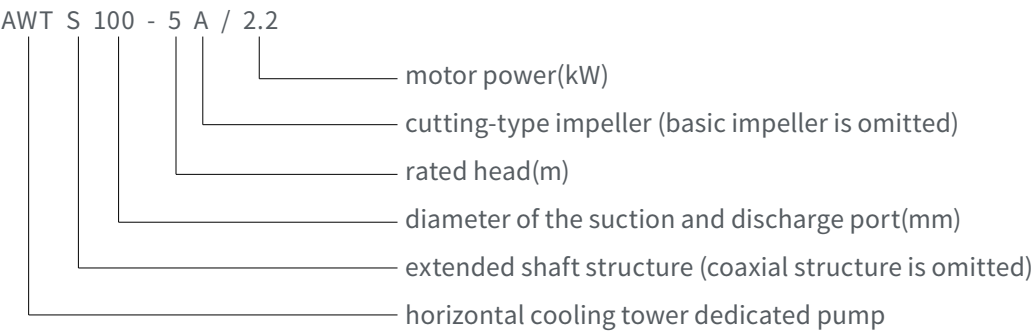
Unit Equipment Cooling

TECHNICAL DATA

Flow rate: 30m³/h~300m³/h

Head: 3.1~8.1m

Model Description



Structural Features

The pump is non-self-priming, single-stage single-suction horizontal type, with axial water inlet and radial water outlet.

The motor is fixed to the base, and there is no need for additional support and installation at the pump body end, which makes the installation convenient.

It adopts a back-pull-out structure, facilitating maintenance.

The shaft of the AWT pump is coaxially connected to the motor shaft, featuring a small floor space and light weight. The AWTS adopts a direct connection type with an extended shaft structure.

The impeller and the pump body are designed with excellent hydraulic models, and the optimal working conditions are customized according to market demands, resulting in high efficiency.

Key components such as the impeller and the pump shaft are all made of stainless steel materials.

The casting adopts the resin sand casting process, with a smooth surface, good appearance quality and a dense structure.

Application

This pump is mainly applied to the water circulation of closed cooling towers and condensers. It is also suitable for the cooling of various unit equipment and can be used in some occasions with large flow rates and low heads.

The product is suitable for use in liquids that are clean, thin, non-corrosive, non-flammable and non-explosive, and do not contain any solid particles and fibers that may cause mechanical or chemical damage to the pump.

However, when used in viscous liquids or liquids with a relatively high density, it will lead to a decline in the pump's characteristic curve and an increase in energy consumption.

Liquid temperature: -15°C~100°C

Ambient temperature: up to +40°C

Maximum working pressure: 6 bar

电机 Motor

The motor is a totally enclosed, air-cooled motor.

Protection level: IP55

Insulation level: F

Standard voltage: 50Hz: 1×220V

3×380V

曲线条件 Curve Conditions

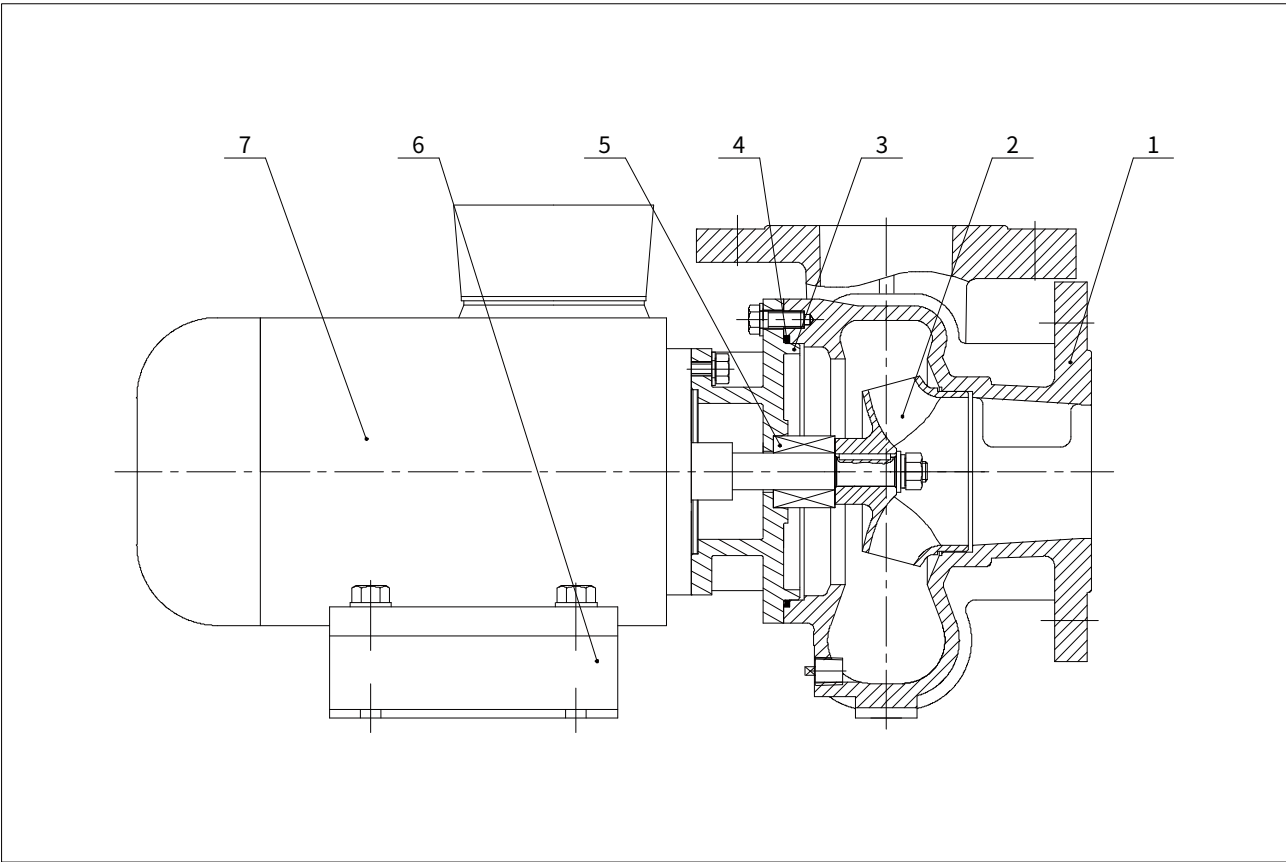
The following principles are applicable to the performance curves:

1. The curve tolerances comply with the 3B grade of ISO9906:2012.
2. All curves are based on measurements at 3×380V with the motor running at constant speeds of 2900rpm and 1450rpm.
3. The test uses 20°C water, free of any solid impurities and air
4. The pump's usage should refer to the performance range of the bold curve to prevent issues such as overheating due to too low flow or motor overload due to too high flow.

Performance Parameters Form

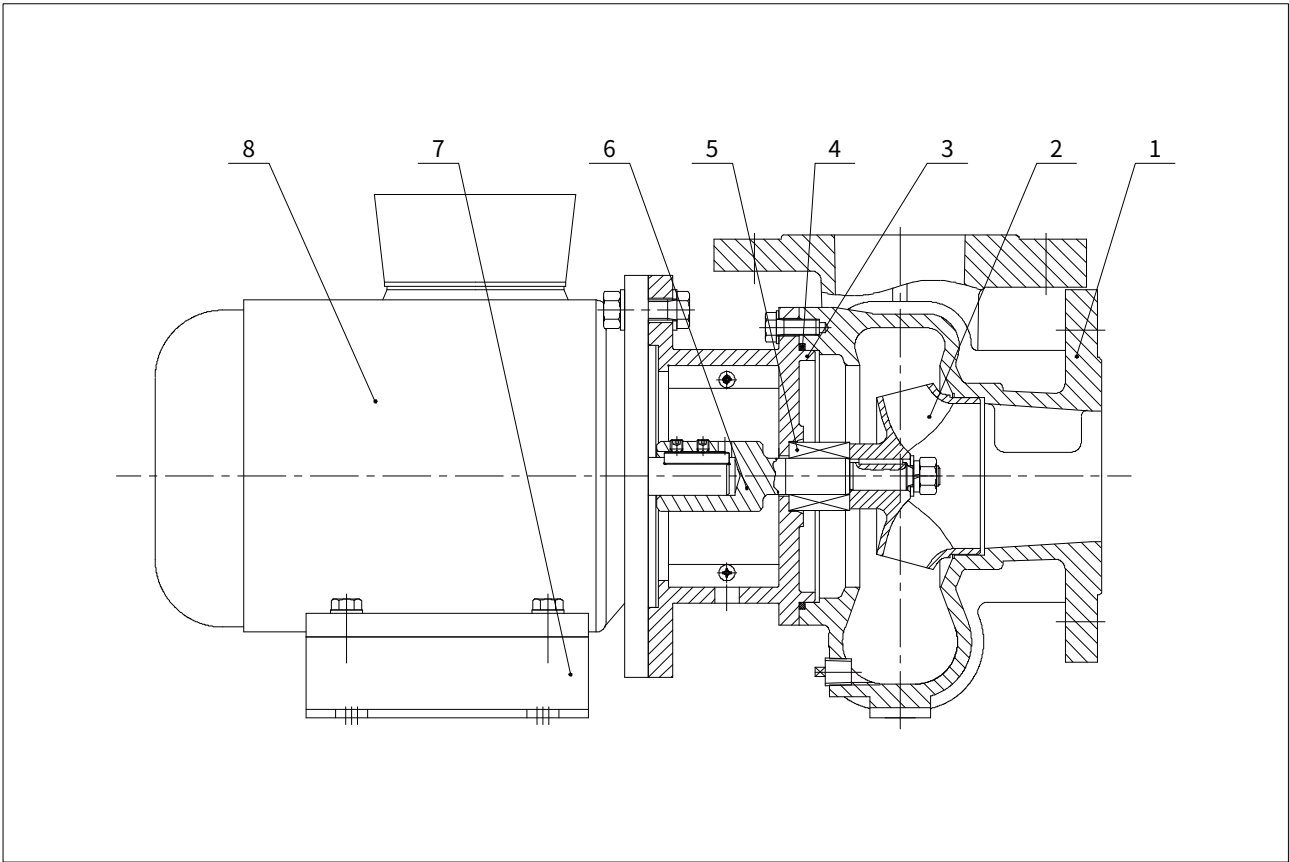
NO.	Model	Q[m³/h]	H[m]	Motor[kW]	n[r/min]
1	AWT(S)65-5/1.1	40	5	1.1	2900
2	AWT(S)80-5/1.5	55	5	1.5	
3	AWT(S)100-5/2.2	100	5	2.2	
4	AWT(S)125-5A/3	120	5	3	1450
5	AWT(S)125-5/4	160	5	4	
6	AWT(S)150-6A/5.5	200	6	5.5	
7	AWT(S)150-6/7.5	250	6	7.5	

AWT Sectional View



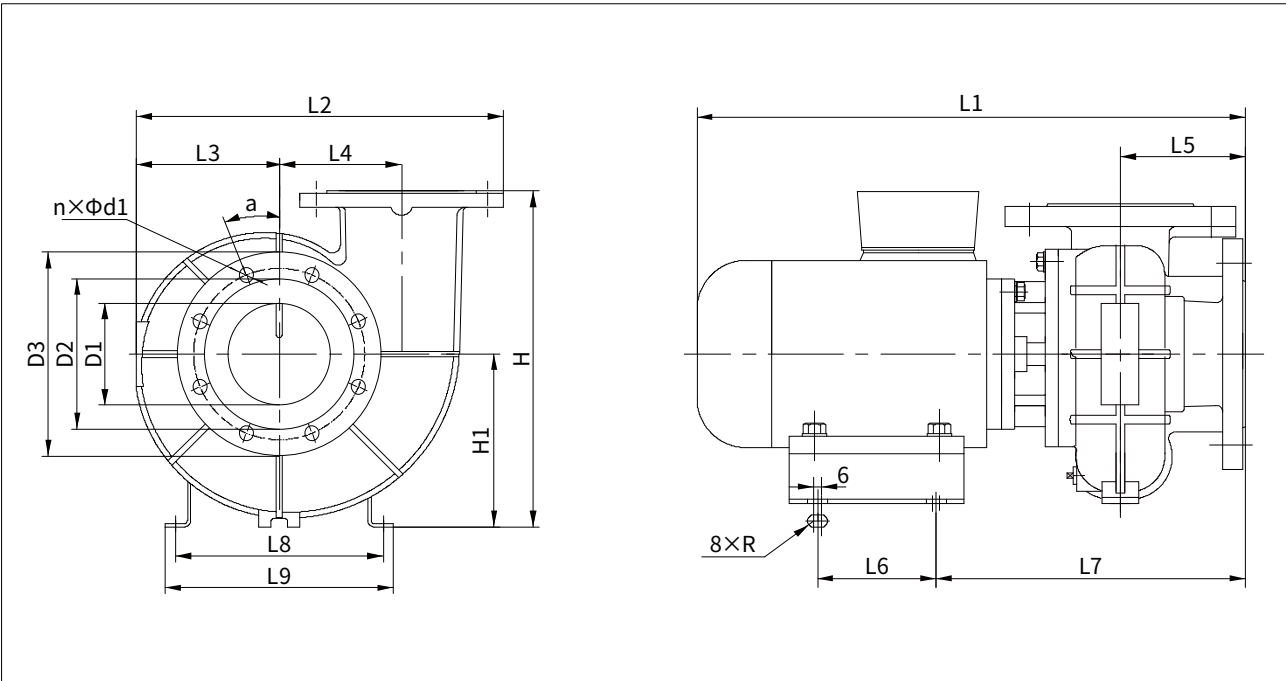
NO.	Parts	Materials	AISI/ASTM
1	Pump Body	Cast iron HT200	ASTM25B
2	Impeller	Stainless steel ZG07Cr19Ni9	AISI304
3	Pump Head	Cast iron HT200	ASTM25B
4	Mechanical Seal	Graphite/silicon carbide	/
5	O-ring	NBR	/
6	Base	Q235-A	AISIA570
7	Motor	/	/

AWTS Sectional View



NO.	Parts	Materials	AISI/ASTM
1	Pump Body	Cast iron HT200	ASTM25B
2	Impeller	Stainless steel ZG07Cr19Ni9	AISI304
3	Pump Head	Cast iron HT200	ASTM25B
4	Mechanical Seal	Graphite/silicon carbide	/
5	O-ring	NBR	/
6	Pump shaft	Stainless steel 20Cr13	AISI420
7	Base	Q235-A	AISIA570
8	Motor	/	/

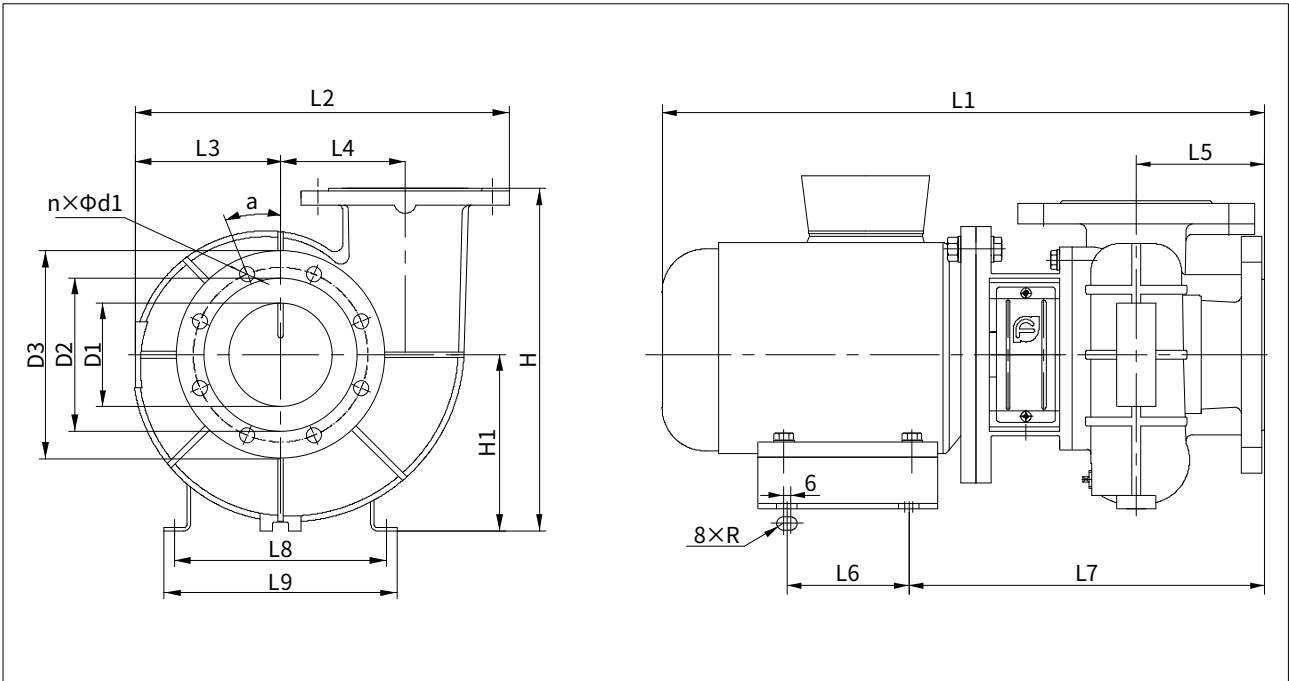
AWT Installation Diagram



Dimensions and Weight

Model	Overall dimensions					Installation dimensions							Dimensions of inlet						Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1		
AWT65-5/1.1	439	240	120	285	107	247	215	100	85	185	95	5	65	145	185	4	18	29	
AWT80-5/1.5	488	270	130	305	115	263	230	110	90	200	120	5	80	160	200	8	18	35	
AWT100-5/2.2	562	380	180	400	155	295	250	120	135	225	135	6	100	180	220	8	18	50	
AWT125-5A/3	577	432	212	450	175	310	250	135	150	225	135	6	125	210	250	8	18	60	
AWT125-5/4	582	432	212	450	175	317	280	135	150	255	135	6	125	240	250	8	18	77	
AWT150-6A/5.5	653	462	232	510	195	361	350	150	170	310	135	6	150	240	285	8	22	102	
AWT150-6/7.5	653	462	232	510	195	361	350	150	170	310	135	6	150	240	285	8	22	115	

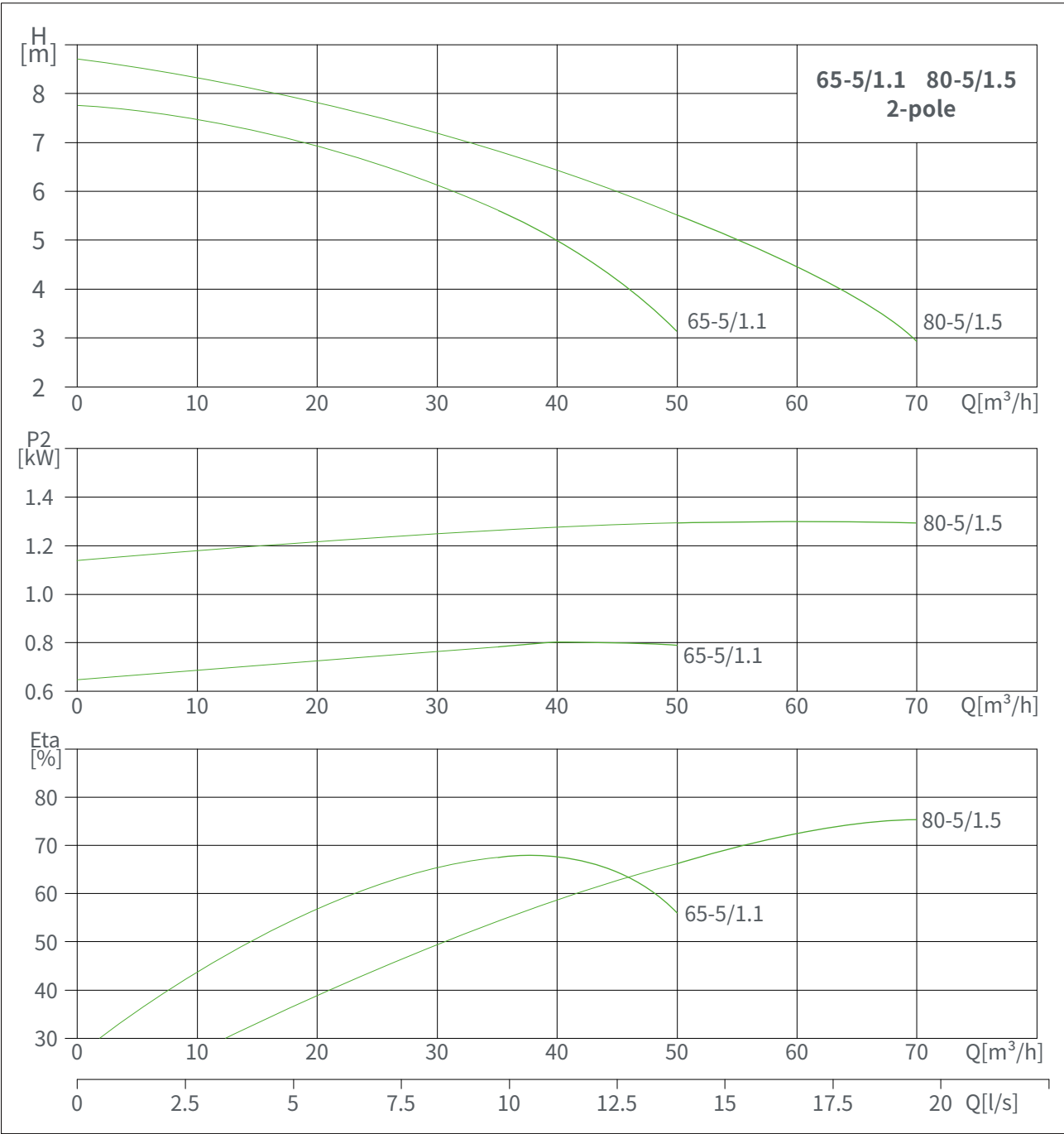
AWTS Installation Diagram



Dimensions and Weight

Model	Overall dimensions					Installation dimensions							Dimensions of inlet and outlet flanges					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1	
AWTS65-5/1.1	470	240	120	285	107	277	215	100	85	185	95	5	65	145	185	4	18	31
AWTS80-5/1.5	527	270	130	305	115	293	230	110	90	200	120	5	80	160	200	8	18	38
AWTS100-5/2.2	609	380	180	400	155	337	250	120	135	225	135	6	100	180	220	8	18	53
AWTS125-5A/3	624	432	212	450	175	352	250	135	150	225	135	6	125	210	250	8	18	63
AWTS125-5/4	642	432	212	450	175	359	280	135	150	255	135	6	125	240	250	8	18	80
AWTS150-6A/5.5	700	462	232	510	195	402	350	150	170	310	135	6	150	240	285	8	22	105
AWTS150-6/7.5	700	462	232	510	195	402	350	150	170	310	173	6	150	240	285	8	22	117

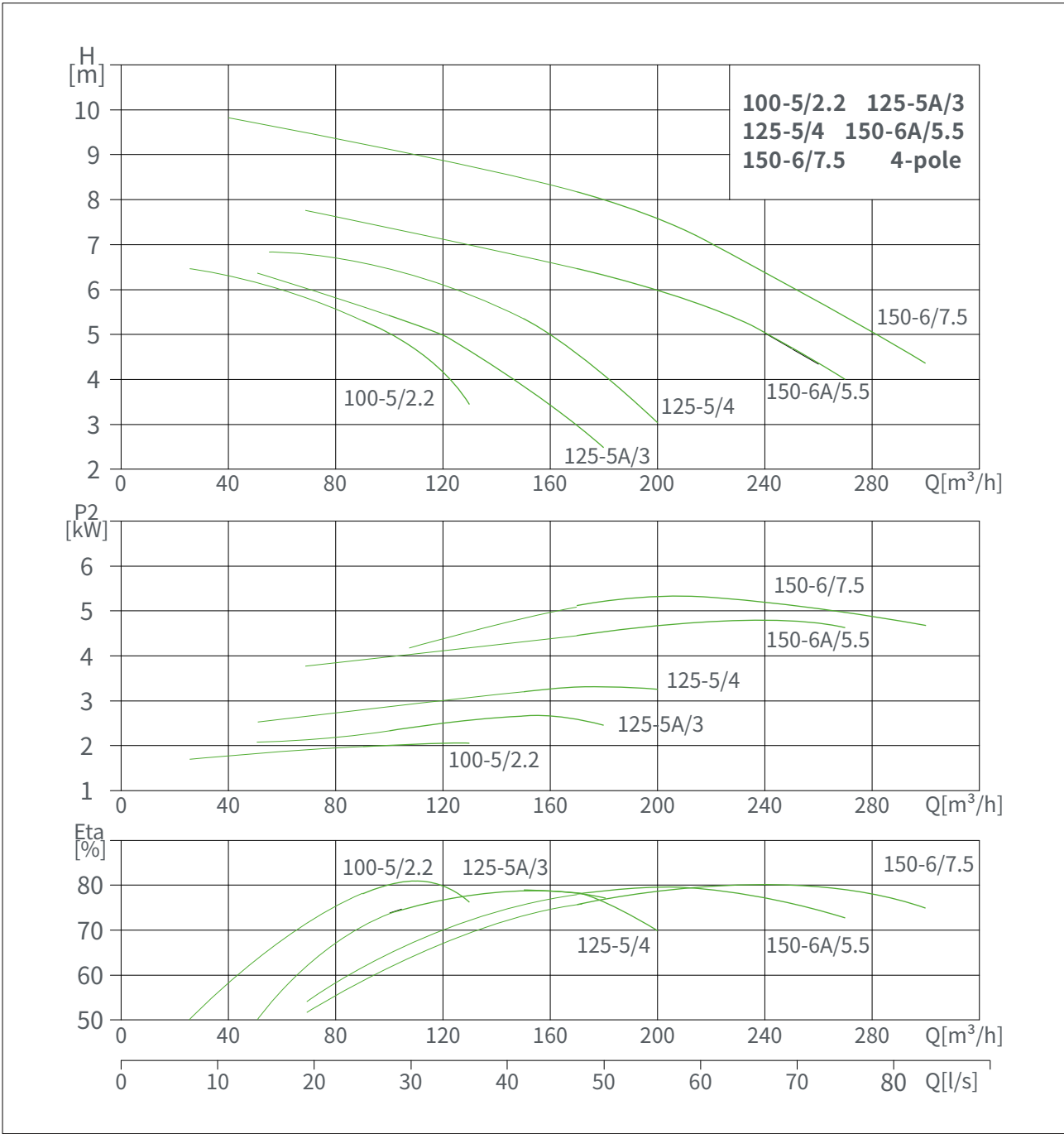
Performance Curves



Performance Form

Model	Motor(kW)	Q (m³/h)	35	40	45	50	55	60	65	70
65-5/1.1	1.1	H (m)	5.7	5	4.2	3.1				
80-5/1.5	1.5					5.6	5	4.5	3.7	2.8

Performance Curves



Performance Form

Model	Motor(kW)	Q (m³/h)	90	100	110	120	130	140	150	160	170	180	190	200	210	230	250	270	300
100-5/5.5	2.2	H (m)	5.3	5	4.7	4.3	3.5												
125-5A/3	3			5.4	5.2	5	4.6	4.2	3.9	3.5	3.1	2.6							
125-5/4	4								5.3	5	4.5	4	3.6	3.1					
150-6A/5.5	5.5										6.5	6.3	6.2	6	5.8	5.3	4.6	4	
150-6/7.5	7.5										8.1	8	7.9	7.7	7.4	6.8	6	5.4	4.6