



WLT, WLTS 50Hz

Horizontal Cooling Tower Pump



Stock code:300145



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Pumping Water Pumping Honor



Company profile



Nanfang Pump Industry Co.,Ltd (CNP),as a subsidiary of Nanfang Zhongjin Environment Co.,Ltd, was founded in 1991,and listed on Shenzhen Stock Exchange on December 9,2010 with stock code 300145.

In 2019, CNP's annual output exceeded 900,000 units/set with nearly 3 billion sales revenue, continuing to maintain high growth.

As a national enterprise technology center, CNP has flagship ultra-high efficient product -new generation CDM (F) light vertical multistage centrifugal pump, MEI≥0.7. Same series high temperature pump products are developed in 2019 to satisfy high temperature applications. All light stainless steel pump product series grow stably. Advanced frequency conversion water supply equipment has been innovated to the 6th generation. Fire pump and diesel engine have obtained UL certification.TD in-line pump, NIS/NISO end suction pump, NSC split casing pump, WQ sewage pump, PQ stainless steel fountain submersible pump, BP silent tube pump, pool pump, non-blocking self-priming sewage pump, metering pump, oil pump and other pump products, can meet various application needs of different fields.

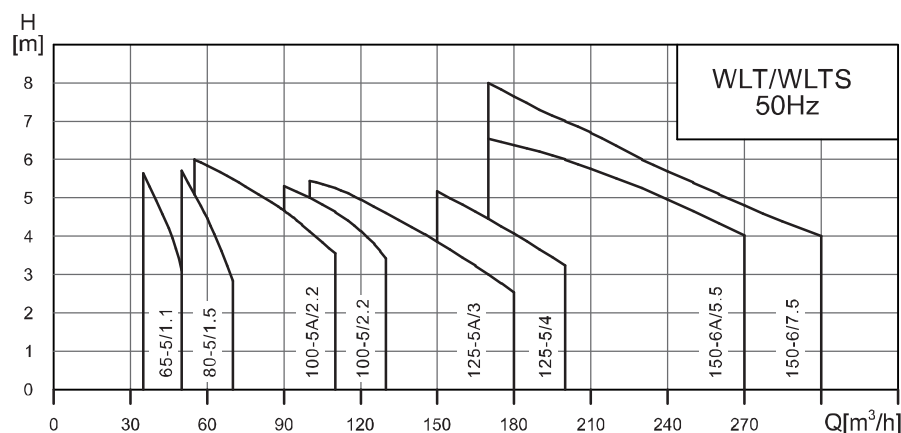
CNP has a complete sales network both in domestic and overseas market,exporting to over 60 countries and regions, maintaining long-term and strong relationship with our clients. CNP pumps have been widely applied in various fields like water treatment, water supply and drainage, HVAC, industrial application, seawater desalination, energy and power etc.

CNP, a green water expert beside you.

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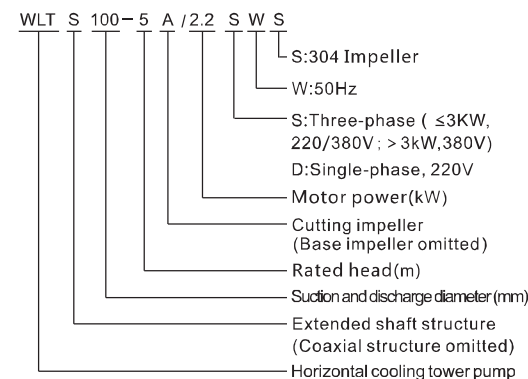
Performance Range



WLT,WLTS Performance Parameters

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

Model definition



Structure features

- Non-self-priming, single stage, single suction, horizontal; axial suction and radical discharge
- Motor is originally fixed by base makes pump easy to install as additional support installation for the pump body end is omitted
- The back pull pattern structure makes it easy to repair
- WLT pump shaft and motor shaft are coaxial connected. small occupation area, light weight; WLTS adopts the structure of lengthened shaft with straight connection.
- Impeller and casing adopt excellent hydraulic model, they can be designed according to market
- Key components such as impeller and shaft are made of stainless steel
- Casted by resin sand, the castings feature smooth and bright surface, nice shape, good quality, dense structure.

Applications

- Water circulation of closed cooling tower and condenser; cooling of various unit equipment ; circumstances in which need pump with large flow and low head.
- Clean, thin, non-corrosive, non-flammable or non-explosive liquid without solid grain or fiber which won't attack the pump chemically or mechanically Liquid with high viscosity or big density will result the decrease of performance curve and the increase of energy consumption.
- Liquid temperature: -15°C~100°C
- Max. ambient temperature: +40°C
- Max. working pressure: 6 bar

Motor

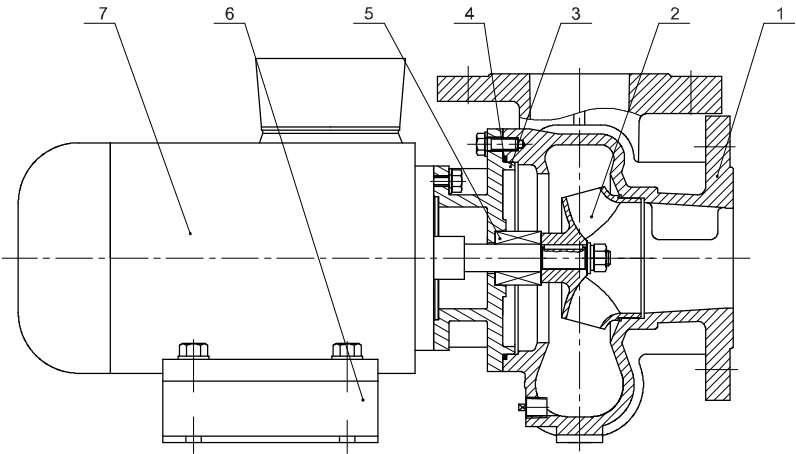
- Totally closed fan cooled motor
- Protection level: IP55
- Insulation level: F
- Standard voltage: 50Hz: 1×220V
3×380V

Curve conditions

Following conditions are suitable for performance curve

- Curve tolerance in conformity with ISO9906: 2012, 3B.
- All curves are based on the measured values of 50Hz (3×380V): constant motor speed 2900rpm or 1450rpm.
- Test medium is clean water with temperature of 20 °C without any solid impurity and air.
- The operation of pump should refer to the performance range of curve shown in boldface to prevent overheating due to too small flow rate or overloading due to too large flow rate.

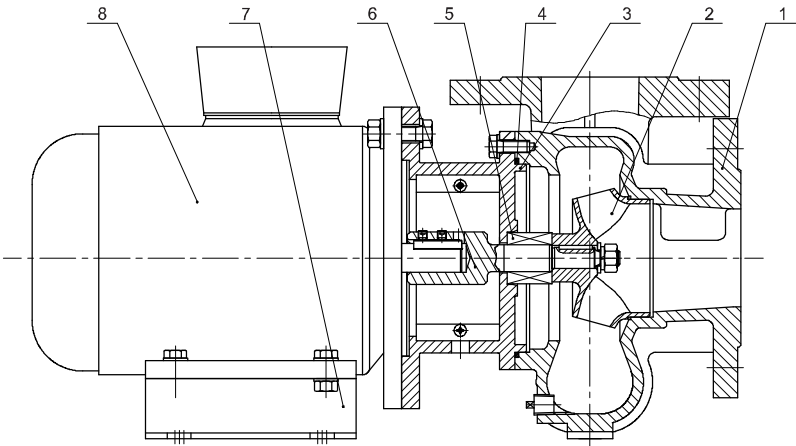
WLT Sectional Drawing



Material

No	Name	Material	AISI/ASTM
1	Casing	HT200	ASTM25B
2	Impeller	ZG07Cr19Ni9	AISI304
3	pump head	HT200	ASTM25B
4	O-ring seal	NBR	
5	Blade mechanical seal	Silicon carbide/Tungsten carbide	
6	Base	Q235-A	AISIA570
7	Motor		

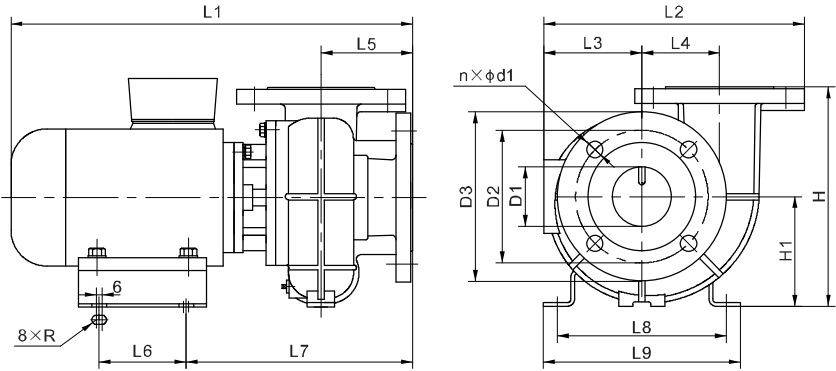
WLTS Sectional Drawing



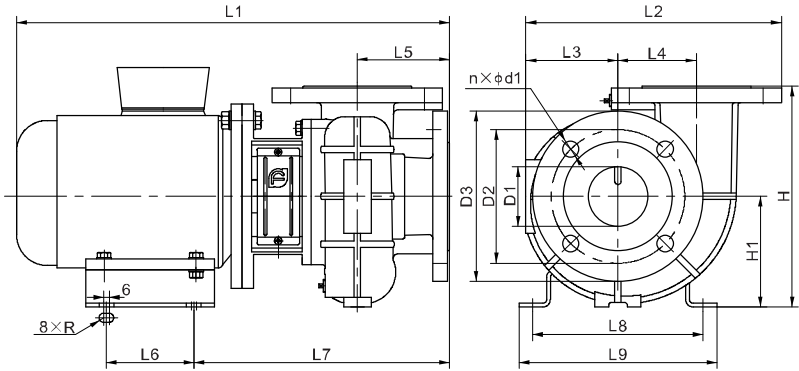
Material

No	Name	Material	AISI/ASTM
1	Casing	HT200	ASTM25B
2	Impeller	ZG07Cr19Ni9	AISI304
3	pump head	HT200	ASTM25B
4	O-ring seal	NBR	
5	Blade mechanical seal	Silicon carbide/ Tungsten carbide	
6	Shaft	20Cr13	AISI420
7	Base	Q235-A	AISIA570
8	Motor		

WLT /WLTS Installation sketch

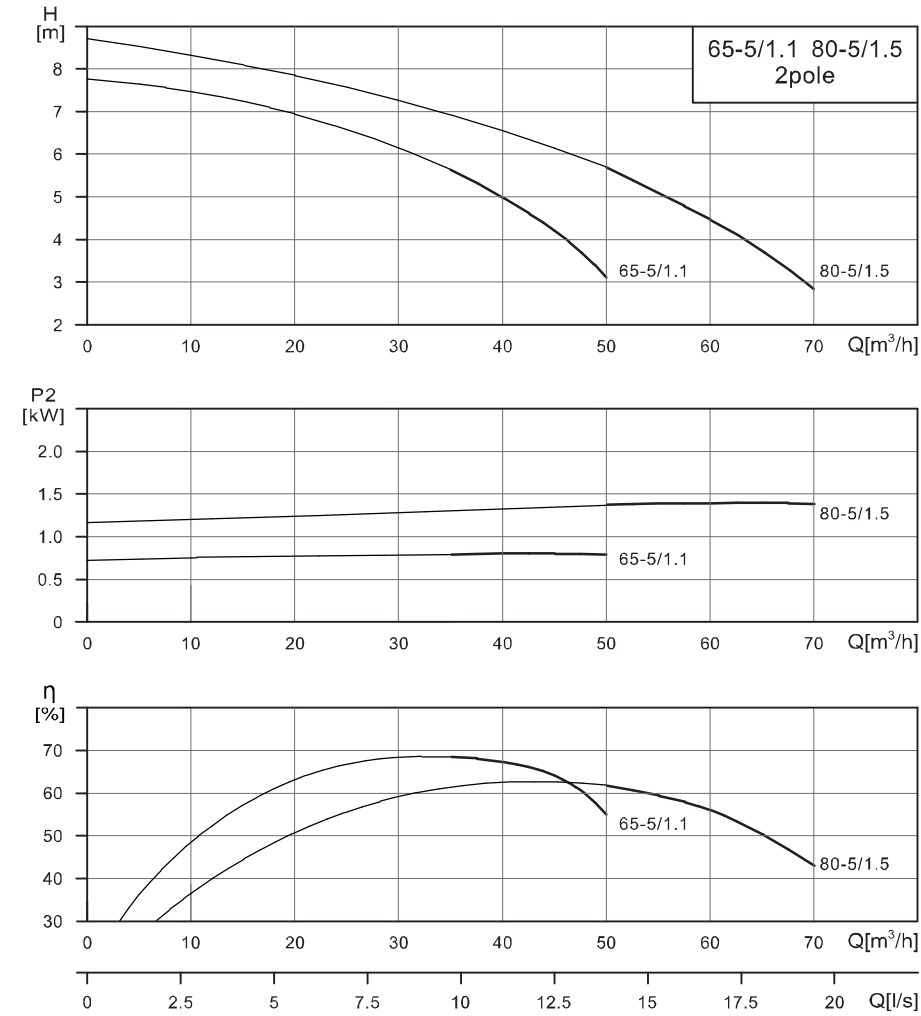


Model	External dimension					Installation dimension								Inlet and outlet flange dimension					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1		
WLT65-5/1.1	443	240	120	278	100	247	215	100	85	185	95	5	65	145	185	4	18	29	
WLT80-5/1.5	497	270	130	295	105	264	230	110	90	200	120	5	80	160	200	8	18	37	



Model	External dimension					Installation dimension								Inlet and outlet flange dimension					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1		
WLTS65-5/1.1	473	240	120	278	100	278	215	100	85	185	95	5	65	145	185	4	18	33.5	
WLTS80-5/1.5	527	270	130	295	105	294	230	110	90	200	120	5	80	160	200	8	18	41	

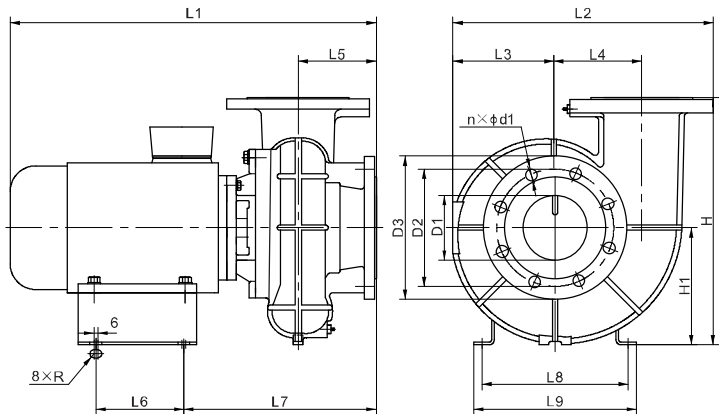
WLT/WLTS Performance curve



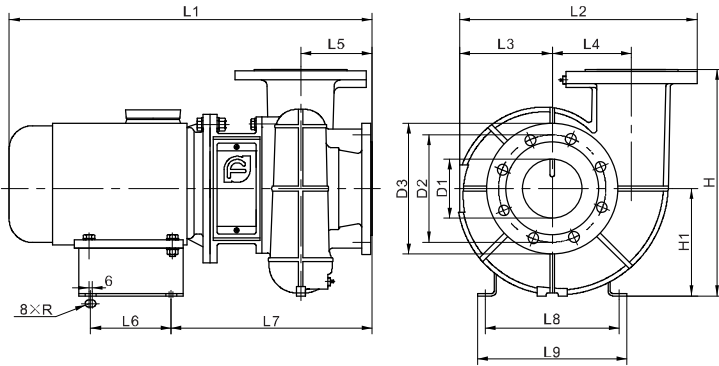
WLT/WLTS Performance table

Model	Motor (kW)	Q[m³/h]	35	40	45	50	55	60	65	70
65-5/1.1	1.1	H(m)	5.7	5.0	4.2	3.1				
80-5/1.5	1.5					5.7	5.0	4.5	3.7	2.8

WLT /WLTS Installation sketch

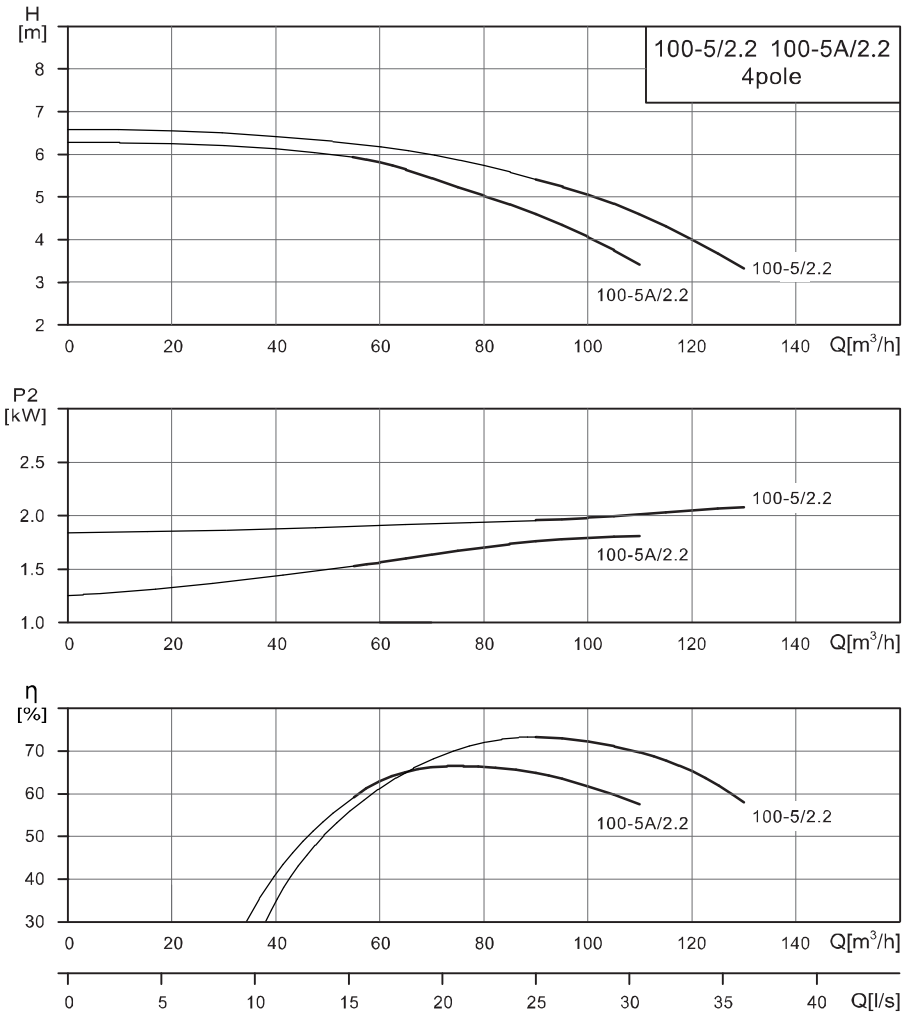


Model	External dimension					Installation dimension					Inlet and outlet flange dimension							Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1	
WLT100-5/2.2	605	380	180	400	155	296	250	120	135	225	135	6	100	180	220	8	18	60
WLT100-5A/2.2	605	380	180	400	155	296	250	120	135	225	135	6	100	180	220	8	18	60



Model	External dimension					Installation dimension					Inlet and outlet flange dimension							Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1	
WLTS100-5/2.2	647	380	180	400	155	338	250	120	135	225	135	6	100	180	220	8	18	66
WLTS100-5A/2.2	647	380	180	400	155	338	250	120	135	225	135	6	100	180	220	8	18	66

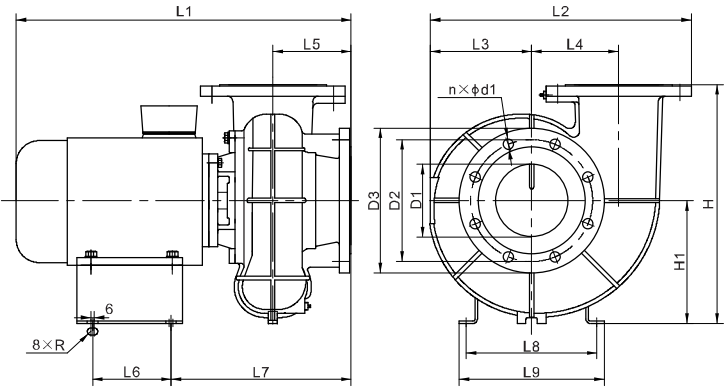
WLT/WLTS Performance curve



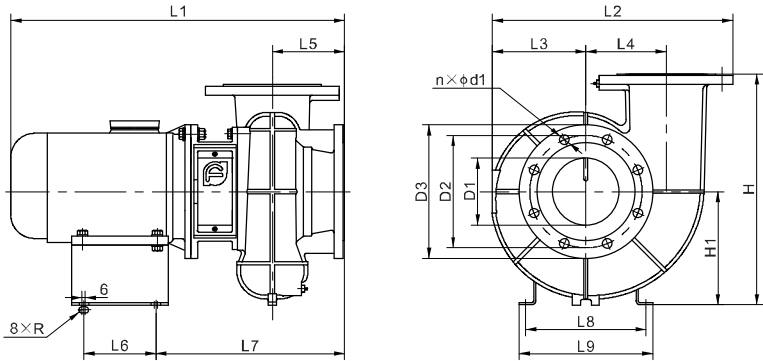
WLT/WLTS Performance table

Model	Motor (kW)	Q[m³/h]	55	60	70	80	90	100	110	120	130
100-5A/2.2	2.2	H(m)	6.0	5.8	5.4	5.0	4.7	4.2	3.6		
100-5/2.2							5.3	5.0	4.7	4.2	3.5

WLT /WLTS Installation sketch

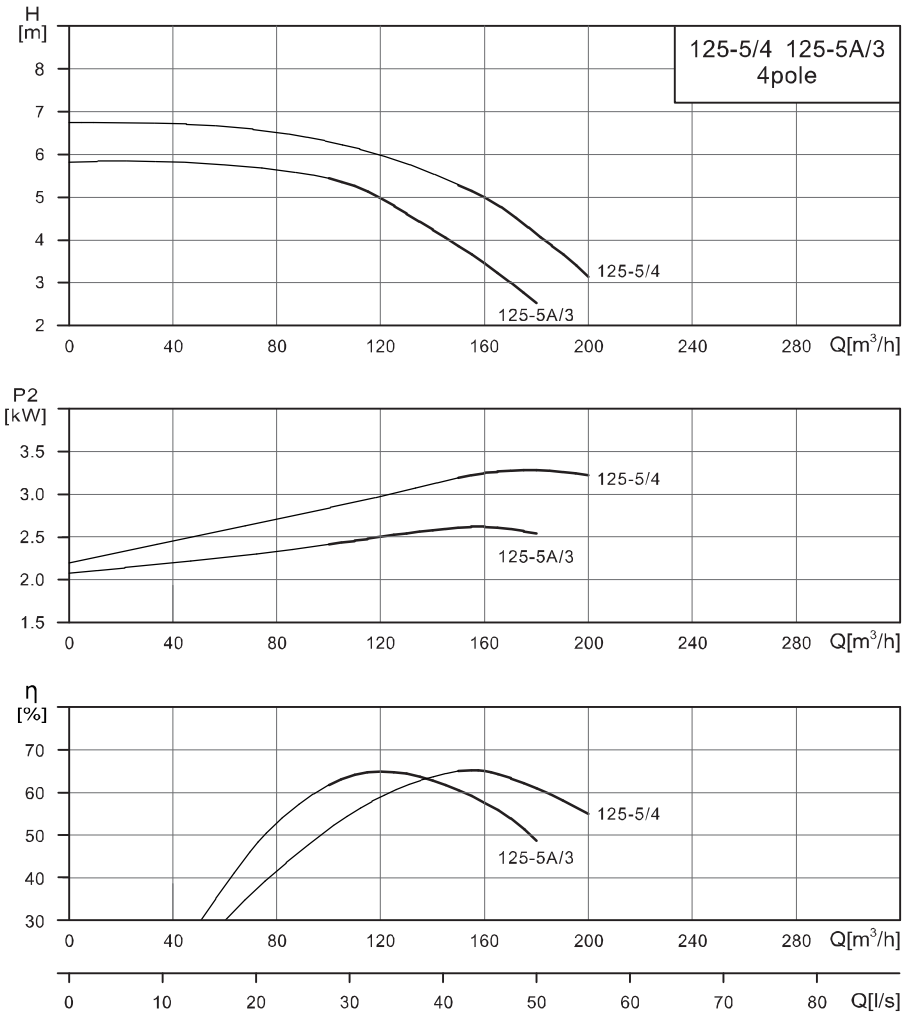


Model	External dimension					Installation dimension								Inlet and outlet flange dimension						Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1			
WLT125-5A/3	620	412	212	450	175	311	250	135	150	225	135	6	125	210	250	8	18	72.5		
WLT125-5/4	629	412	212	450	175	318	280	135	150	255	135	6	125	210	250	8	18	83		



Model	External dimension					Installation dimension								Inlet and outlet flange dimension					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1		
WLTS125-5A/3	662	412	212	450	175	353	250	135	150	225	135	6	125	210	250	8	18	79	
WLTS125-5/4	671	412	212	450	175	360	280	135	150	255	135	6	125	210	250	8	18	90	

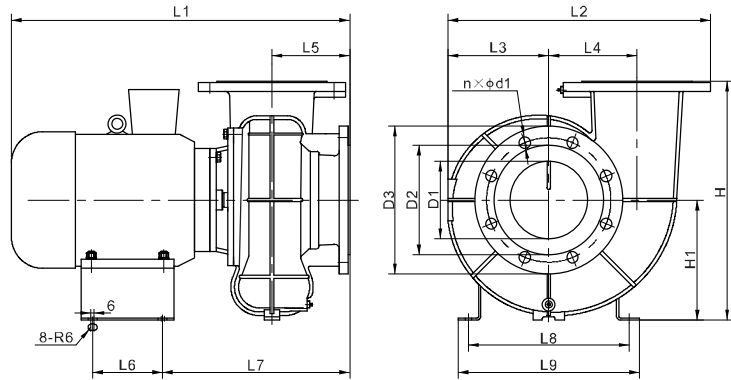
WLT/WLTS Performance curve



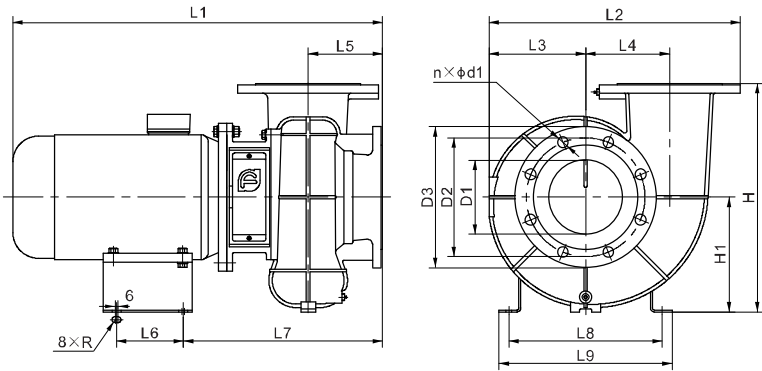
WLT/WLTS Performance table

Model	Motor (kW)	Q[m³/h]	100	110	120	130	140	150	160	170	180	190	200
125-5A/3	3	H(m)	5.4	5.2	5.0	4.6	4.2	3.9	3.5	3.1	2.6		
125-5/4	4							5.3	5.0	4.5	4.0	3.6	3.1

WLT /WLTS Installation sketch

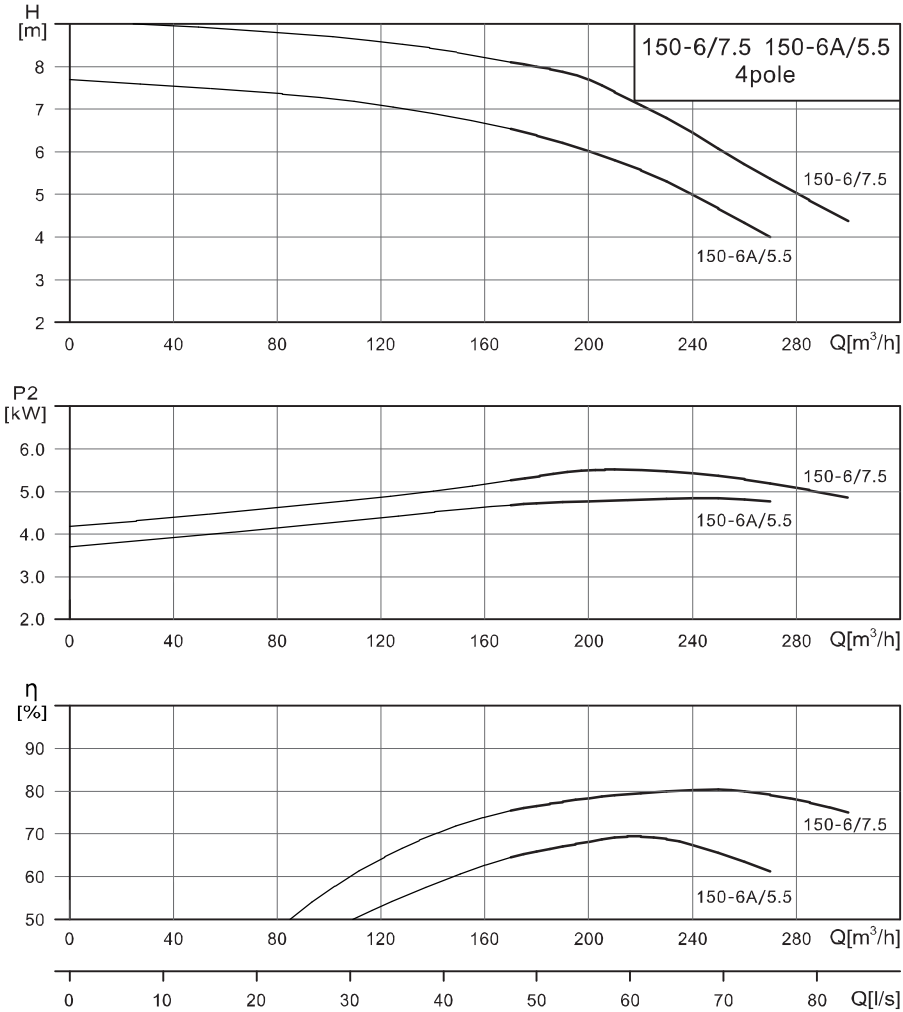


Model	External dimension					Installation dimension							Inlet and outlet flange dimension					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1	
WLT150-6A/5.5	650	462	232	510	195	362	350	150	170	310	135	6	150	240	285	8	22	108
WLT150-6/7.5	690	462	232	510	195	362	350	150	170	310	135	6	150	240	285	8	22	117



Model	External dimension					Installation dimension							Inlet and outlet flange dimension					Weight(kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	d1	
WLTS150-6A/5.5	695	462	232	510	195	407	350	150	170	310	135	6	150	240	285	8	22	123
WLTS150-6/7.5	735	462	232	510	195	407	350	150	170	310	173	6	150	240	285	8	22	132.5

WLT/WLTS Performance curve



WLT/WLTS Performance table

Model	Motor (kW)	Q[m³/h]	170	180	190	200	210	230	250	270	300
150-6A/5.5	5.5	H(m)	6.5	6.3	6.2	6.0	5.8	5.3	4.6	4.0	
150-6/7.5	7.5		8.1	8.0	7.9	7.7	7.4	6.8	6.0	5.4	4.6