

WLT,WLTS WLTSF

50/60Hz
Horizontal Cooling Tower Pump



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subject to amendments

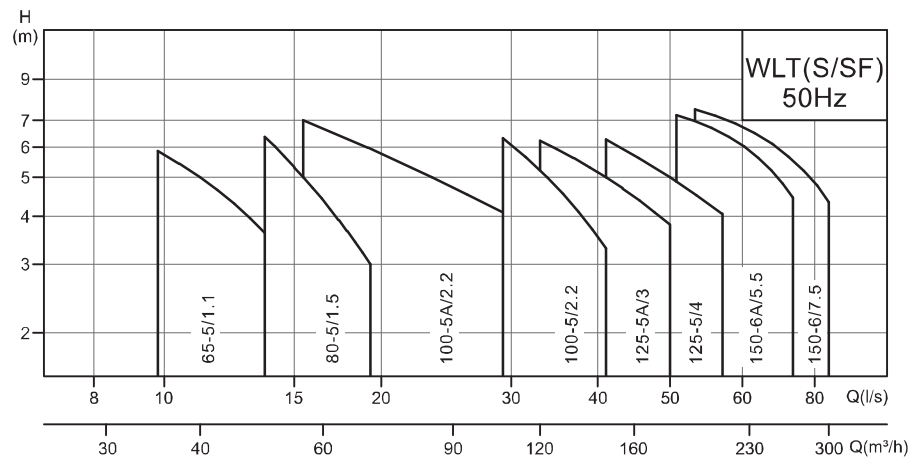


Pumping Water Pumping Honor

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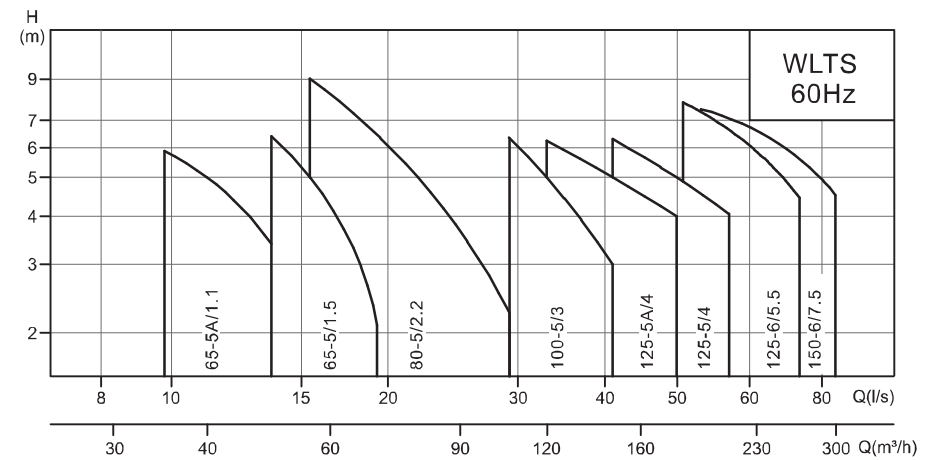
Performance Range



WLT,WLTS,WLTSF Performance parameters(50Hz)

No.	Model	Q [m³/h]	H [m]	Motor [kW]	n [r/min]
1	WLT(S/SF)65-5/ 1.1	40	5	1.1	2900
2	WLT(S/SF)80-5/1.5	55	5	1.5	
3	WLT(S/SF)100-5A/2.2	80	5	2.2	
4	WLT(S/SF)100-5/2.2	120	5	2.2	1450
5	WLT(S/SF)125-5A/3	150	5	3	
6	WLT(S/SF)125-5/4	180	5	4	
7	WLT(S/SF)150-6A/5.5	220	6	5.5	
8	WLT(S/SF)150-6/7.5	250	6	7.5	

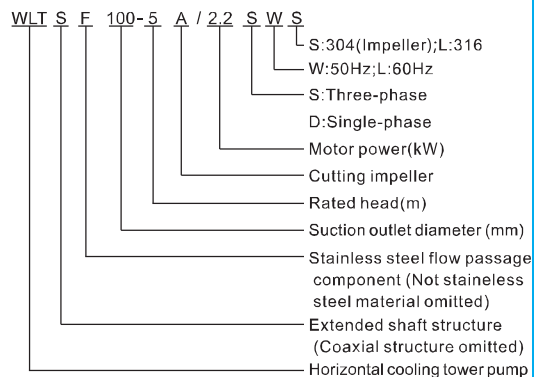
Performance Range



WLTS Performance parameters(60Hz)

No.	Model	Q [m³/h]	H [m]	Motor [kW]	n [r/min]
1	WLTS65-5A/1.1	40	5	1.1	3450
2	WLTS65-5/1.5	55	5	1.5	3500
3	WLTS80-5/2.2	80	5	2.2	
4	WLTS100-5/3	120	5	3	1750
5	WLTS125-5A/4	150	5	4	
6	WLTS125-5/4	180	5	4	
7	WLTS125-6/5.5	220	6	5.5	1770
8	WLTS150-6/7.5	250	6	7.5	

Model definition



Structure features

- Non-self-priming, single stage, single suction, horizontal, axial suction and radical discharge
- Motor is fixed by base, easy to install.
- The back pull pattern structure makes it easy to repair
- WLT pump shaft and motor shaft are coaxial connection, small occupation area, light weight;WLTS and WLTSF adopt 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.
- Precision casting technique is applied in WLTSF pump's flow passage component, which achieves a smooth interior and exterior of pump passage component and reduces the roughness.

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:+40C
- Max. working pressure: 6 bar

Motor

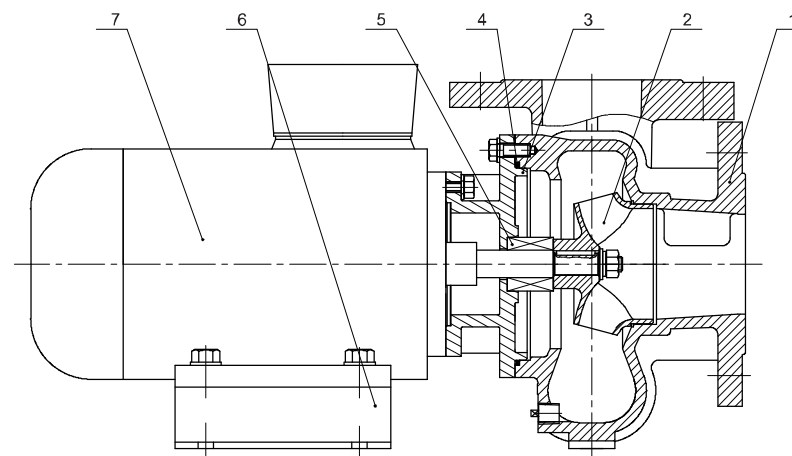
Totally closed fan cooled motor
Protection level:IP55
Insulation level:F
Standard voltage:50Hz:1x220V
3x380V
60Hz:3x460V

Curve conditions

Following conditions are suitable for performance curve

- All curves of 50Hz frequency are based on the measured values of voltage in 3x380V and constant motor speed at 2900rpm or 1450rpm; All curves of 60Hz frequency are based on the measured values of voltage in 3x460V and constant motor speed at 3450rpm,3500rpm,1750rpm or 1770rpm.
- 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.

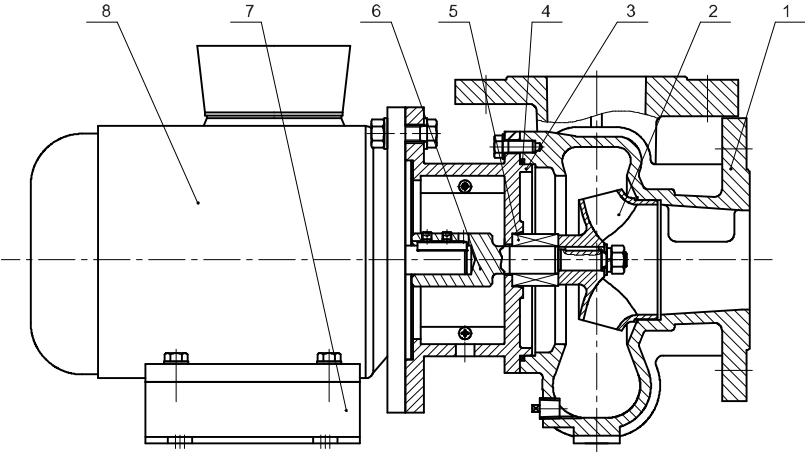
WLT Sectional Drawing



Material

No.	Name	Material	AISI/ASTM
1	Casing	Casting iron HT200	ASTM25B
2	Impeller	Stainless steel ZG07Cr19Ni9	AISI304
3	Pump head	Casting iron HT200	ASTM25B
4	O-ring seal	NBR	
5	Blade mechanical seal	Silicon carbide/ tungsten carbide	
6	Base	Q235-B	AISIA570
7	Motor		

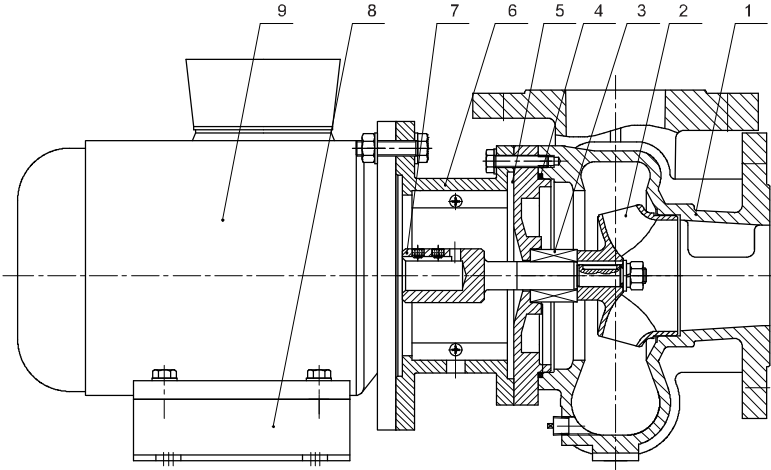
WLTS Sectional Drawing



Material

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

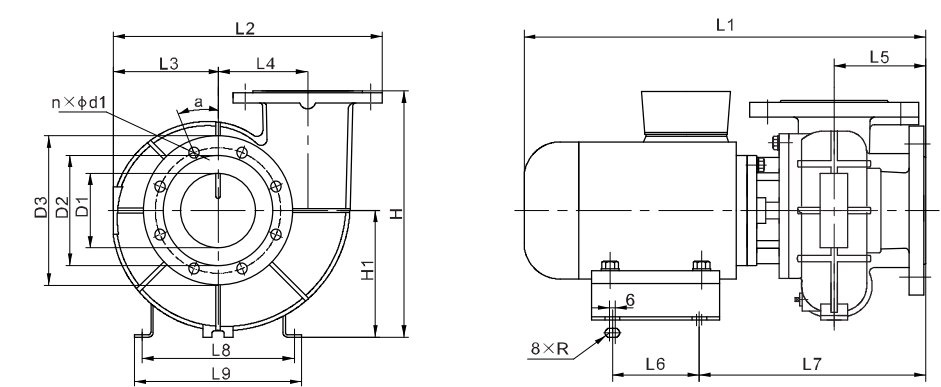
WLTSF Sectional Drawing



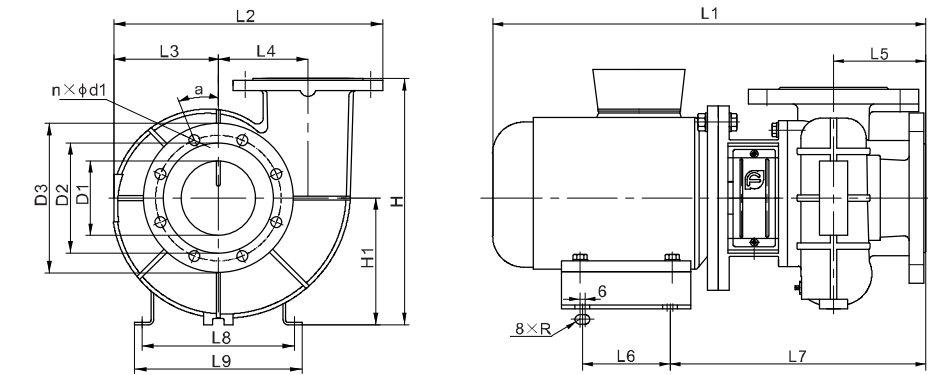
Material

No.	Name	Material	AISI/ASTM
1	Casing	Stainless steel ZG07Cr19Ni9	AISI304
2	Impeller	Stainless steel ZG07Cr19Ni9	AISI304
3	Blade mechanical seal	Silicon carbide/Tungsten carbide	
4	O-ring seal	NBR	
5	Pump cover	Stainless steel ZG07Cr19Ni9	AISI304
6	Pump head	Casting iron HT200	ASTM25B
7	Shaft	Stainless steel 20Cr13	AISI420
8	Base	Q235-B	AISIA570
9	Motor		

WLT/WLTS/WLTSF(50Hz) Installation sketch

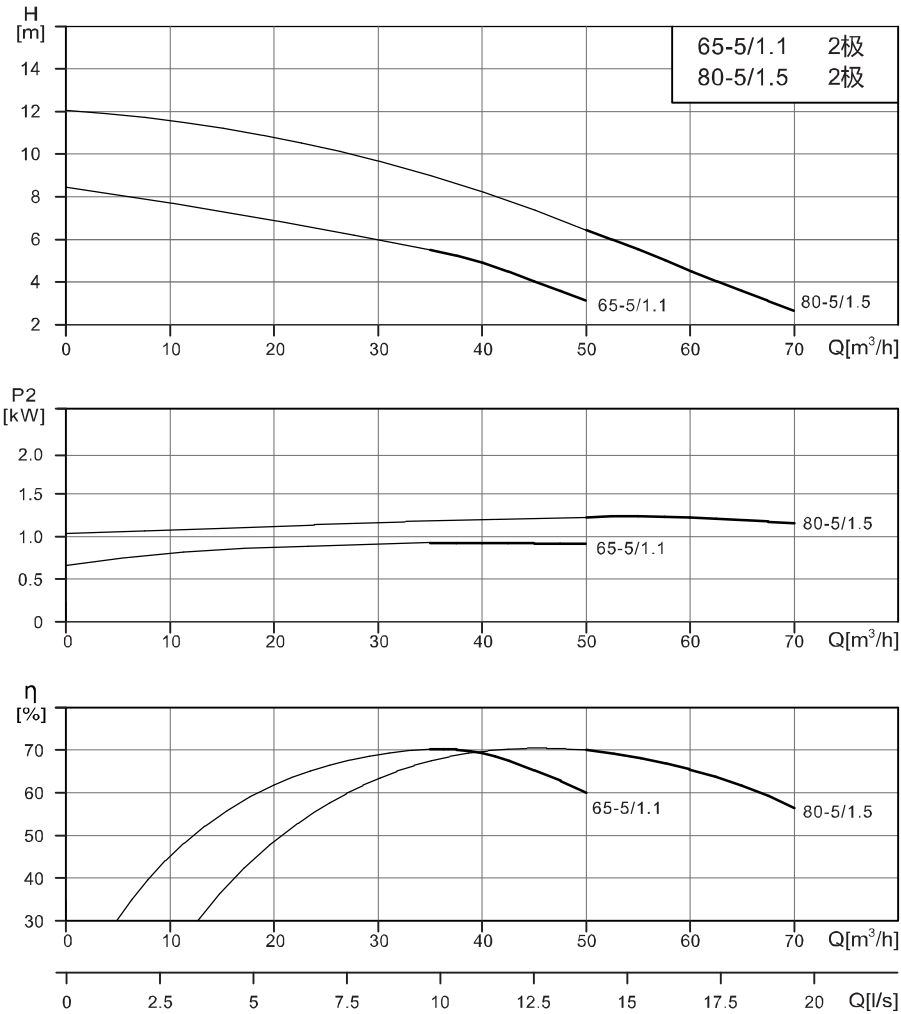


Model	External dimension					Installation dimension								Inlet and outlet flange dimension						Weight (kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	a	d1		
WLT65-5/1.1	443	240	120	278	100	247	215	100	85	185	95	5	65	145	185	4	45	18	29	
WLT80-5/1.5	497	270	130	295	105	264	230	110	90	200	120	5	80	160	200	8	22.5	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	a	d1		
WLTS65-5/1.1	473	240	120	278	100	278	215	100	85	185	95	5	65	145	185	4	45	18	33.5	
WLTS80-5/1.5	527	270	130	295	105	294	230	110	90	200	120	5	80	160	200	8	22.5	18	41	
WLTSF65-5/1.1	490	240	120	278	100	295	215	100	85	185	95	5	65	145	185	4	45	18	38.5	
WLTSF80-5/1.5	544	270	130	295	105	311	230	110	90	200	120	5	80	160	200	8	22.5	18	46	

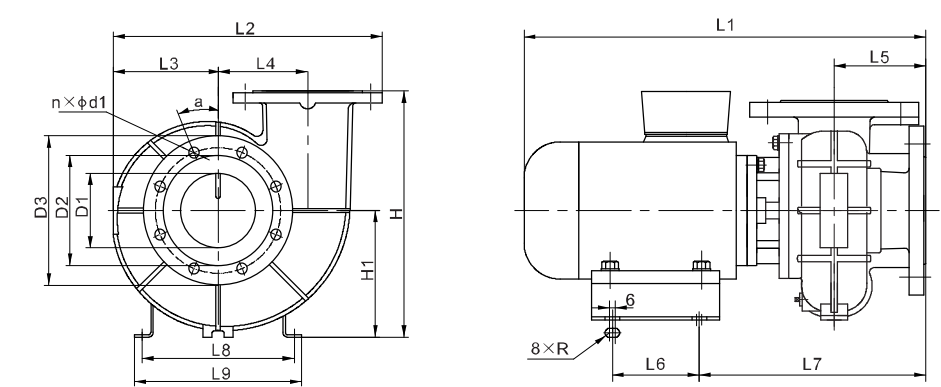
WLT/WLTS/WLTSF(50Hz) Performance curve



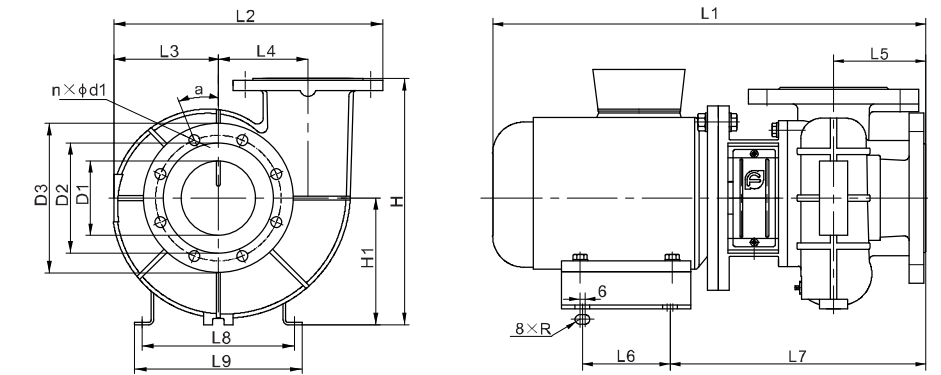
WLT/WLTS/WLTSF(50Hz) Performance table

Model	Motor (kW)	Q(m³/h)	35	40	45	50	55	60	65	70
65-5/1.1	1.1	H(m)	5.8	5	4.6	3.6				
80-5/1.5	1.5					6.4	5	4.5	3.2	3

WLT/WLTS/WLTSF(50Hz) Installation sketch

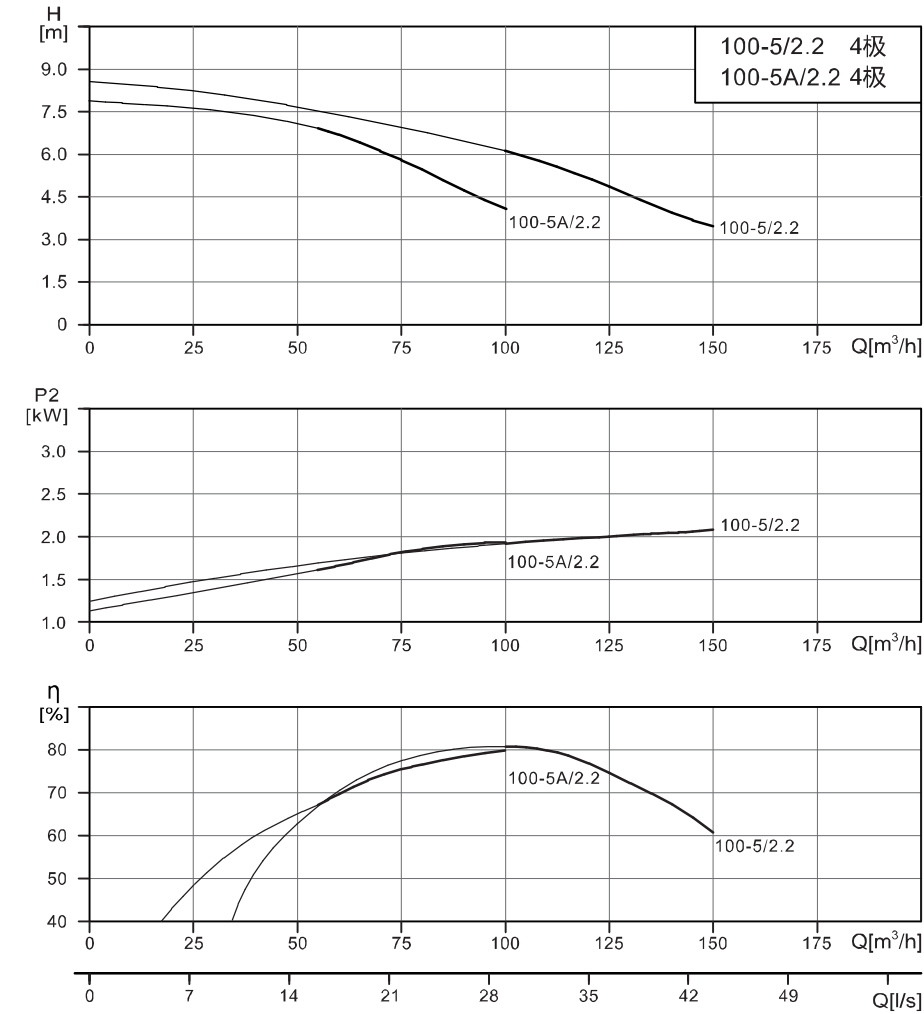


Model	External dimension					Installation dimension								Inlet and outlet flange dimension							Weight (kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	a	d1			
WLT100-5/2.2	605	380	180	400	155	296	250	120	135	225	135	6	100	180	220	8	22.5	18	60		
WLT100-5A/2.2	605	380	180	400	155	296	250	120	135	225	135	6	100	180	220	8	22.5	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	a	d1		
WLTS100-5/2.2	647	380	180	400	155	338	250	120	135	225	135	6	100	180	220	8	22.5	18	66	
WLTS100-5A/2.2	647	380	180	400	155	338	250	120	135	225	135	6	100	180	220	8	22.5	18	66	
WLTSF100-5/2.2	664	380	180	400	155	355	250	120	135	225	135	6	100	180	220	8	22.5	18	74	
WLTSF100-5A/2.2	664	380	180	400	155	355	250	120	135	225	135	6	100	180	220	8	22.5	18	74	

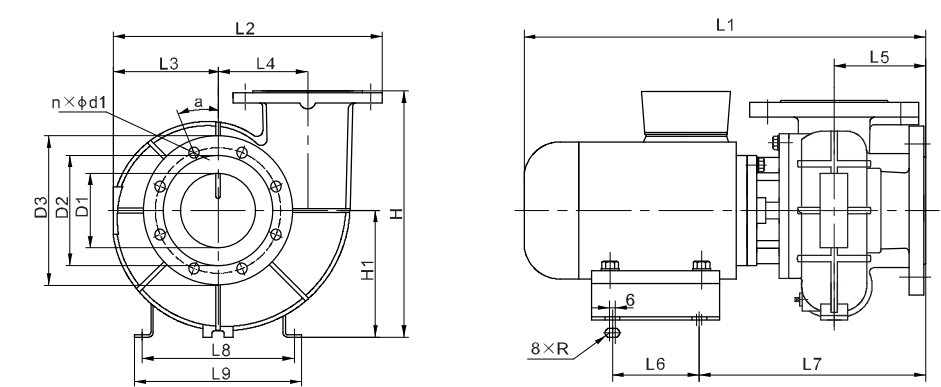
WLT/WLTS/WLTSF(50Hz) Performance curve



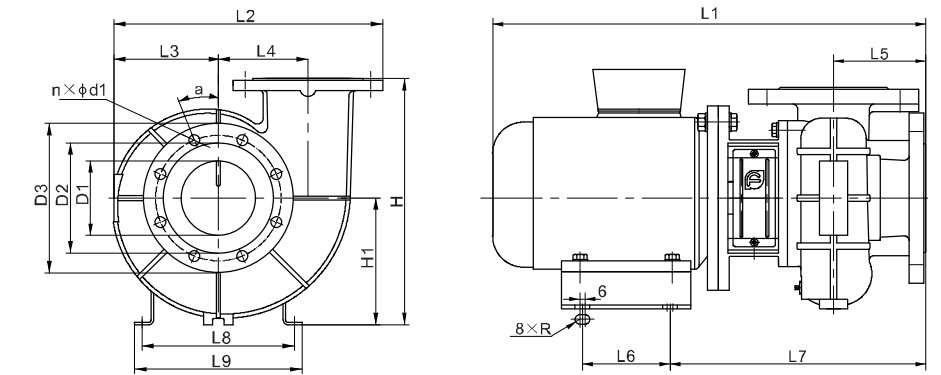
WLT/WLTS/WLTSF(50Hz) Performance table

Model	Motor (kW)	Q(m³/h)	55	60	70	80	90	100	110	120	130	140	150
100-5A/2.2	2.2	H(m)	7	6.8	6.5	5	4.5	4.3					
100-5/2.2								6.2	5.7	5	4.5	3.9	3.5

WLT/WLTS/WLTSF(50Hz) Installation sketch

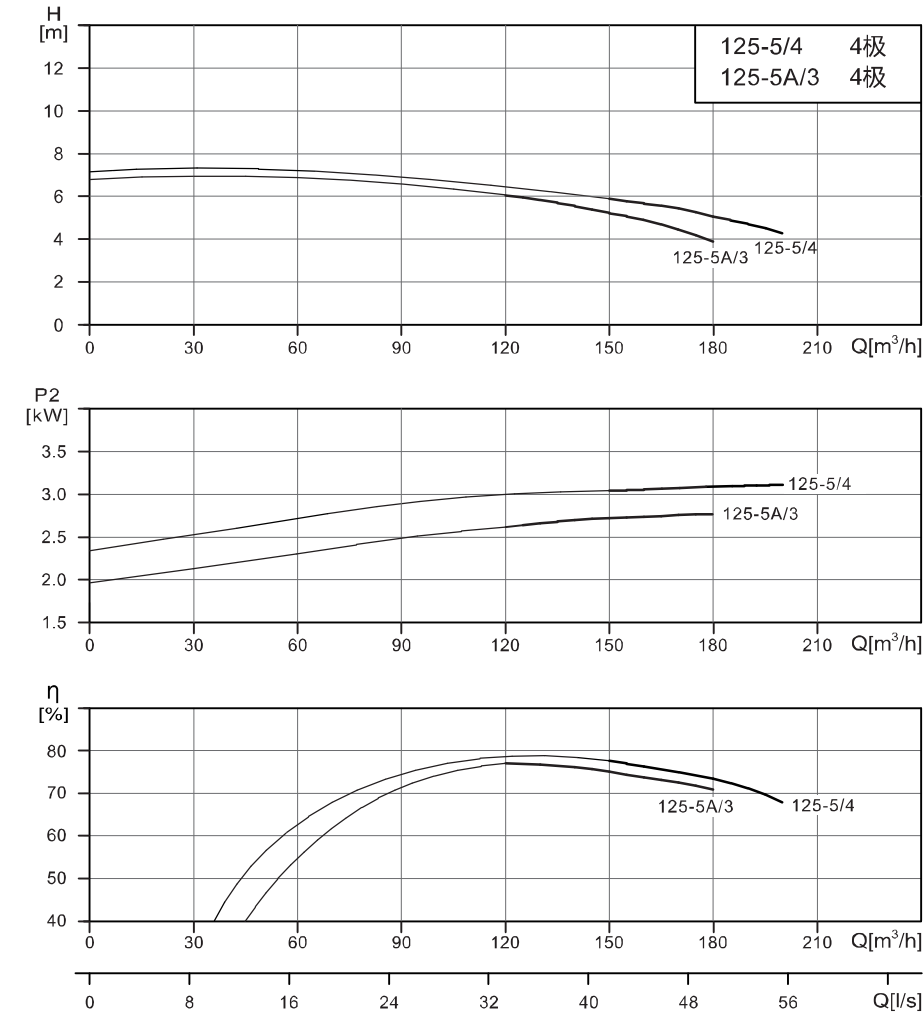


Model	External dimension					Installation dimension								Inlet and outlet flange dimension							Weight (kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	a	d1			
WLT125-5A/3	620	412	212	450	175	311	250	135	150	225	135	6	125	210	250	8	22.5	18	72.5		
WLT125-5/4	629	412	212	450	175	318	280	135	150	255	135	6	125	210	250	8	22.5	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	a	d1		
WLTS125-5A/3	662	412	212	450	175	353	250	135	150	225	135	6	125	210	250	8	22.5	18	79	
WLTS125-5/4	671	412	212	450	175	360	280	135	150	255	135	6	125	210	250	8	22.5	18	90	
WLTSF125-5A/3	676	412	212	450	175	367	250	135	150	225	135	6	125	210	250	8	22.5	18	89	
WLTSF125-5/4	685	412	212	450	175	374	280	135	150	255	135	6	125	210	250	8	22.5	18	100	

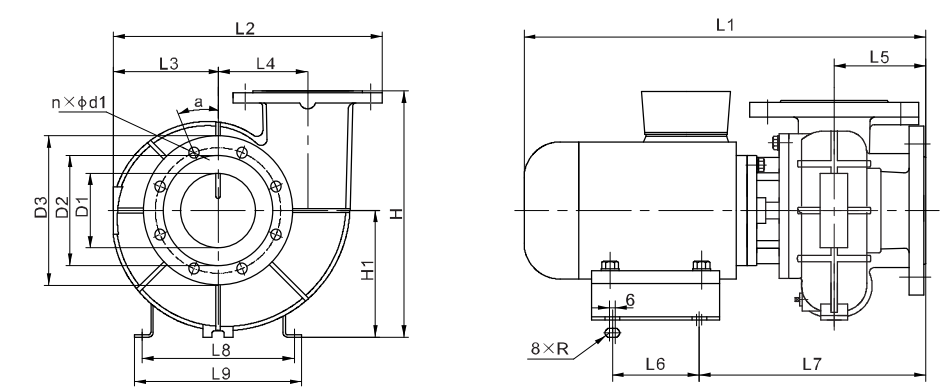
WLT/WLTS/WLTSF(50Hz) Performance curve



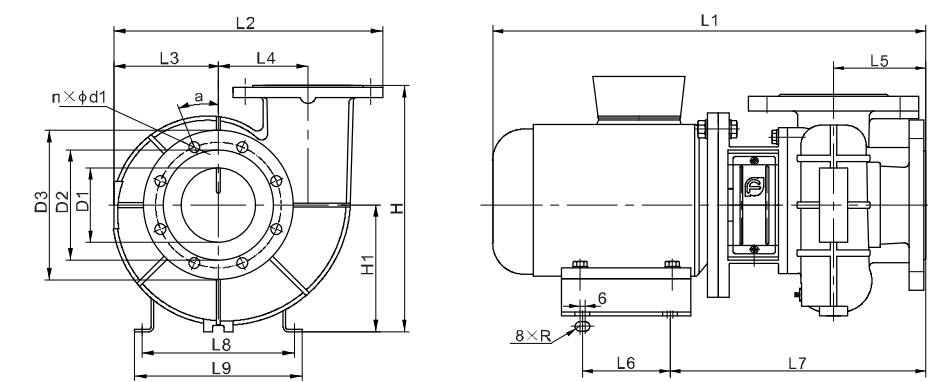
WLT/WLTS/WLTSF(50Hz) Performance table

Model	Motor (kW)	Q(m³/h)	120	130	140	150	160	170	180	190	200
125-5A/3	3	H(m)	6.2	5.8	5.4	5	4.7	4.4	3.9		
125-5/4	4					5.9	5.6	5.3	5	4.6	4.1

WLT/WLTS/WLTSF(50Hz) Installation sketch

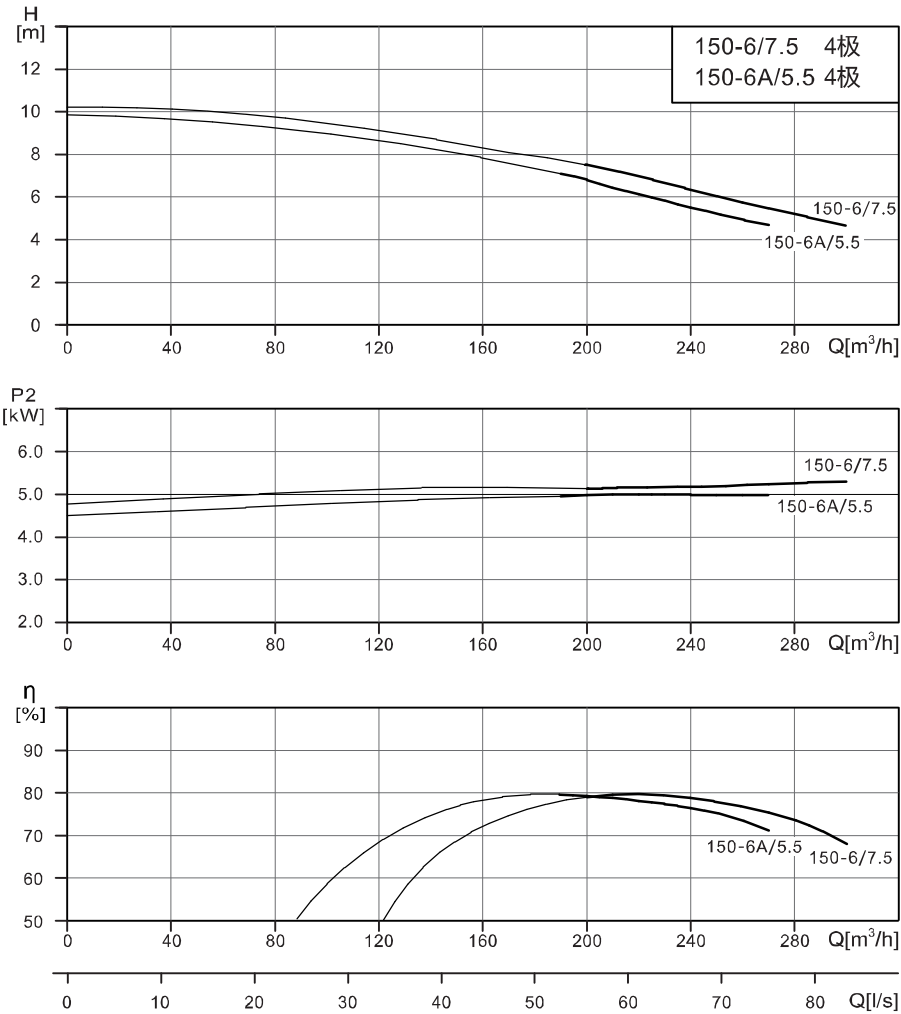


Model	External dimension					Installation dimension								Inlet and outlet flange dimension							Weight (kg)
	L1	H	H1	L2	L3	L7	L9	L5	L4	L8	L6	R	D1	D2	D3	n	a	d1			
WLT150-6A/5.5	650	462	232	510	195	362	350	150	170	310	135	6	150	240	285	8	22.5	22	108		
WLT150-6/7.5	690	462	232	510	195	362	350	150	170	310	135	6	150	240	285	8	22.5	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	a	d1		
WLTS150-6A/5.5	695	462	232	510	195	407	350	150	170	310	135	6	150	240	285	8	22.5	22	123	
WLTS150-6/7.5	735	462	232	510	195	407	350	150	170	310	173	6	150	240	285	8	22.5	22	132.5	
WLTSF150-6A/5.5	712	462	232	510	195	424	350	150	170	310	135	6	150	240	285	8	22.5	22	135	
WLTSF150-6/7.5	752	462	232	510	195	424	350	150	170	310	173	6	150	240	285	8	22.5	22	147.5	

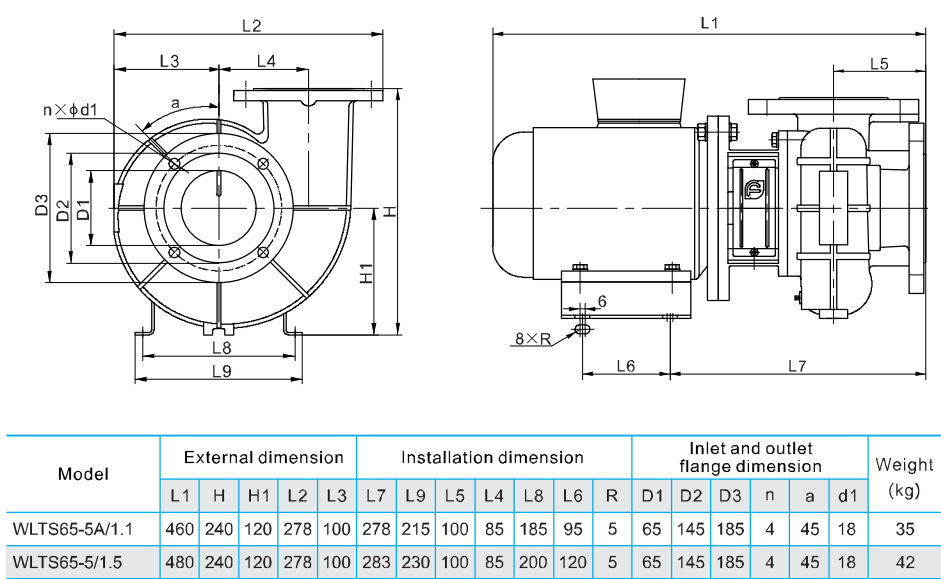
WLT/WLTS/WLTSF(50Hz) Performance curve



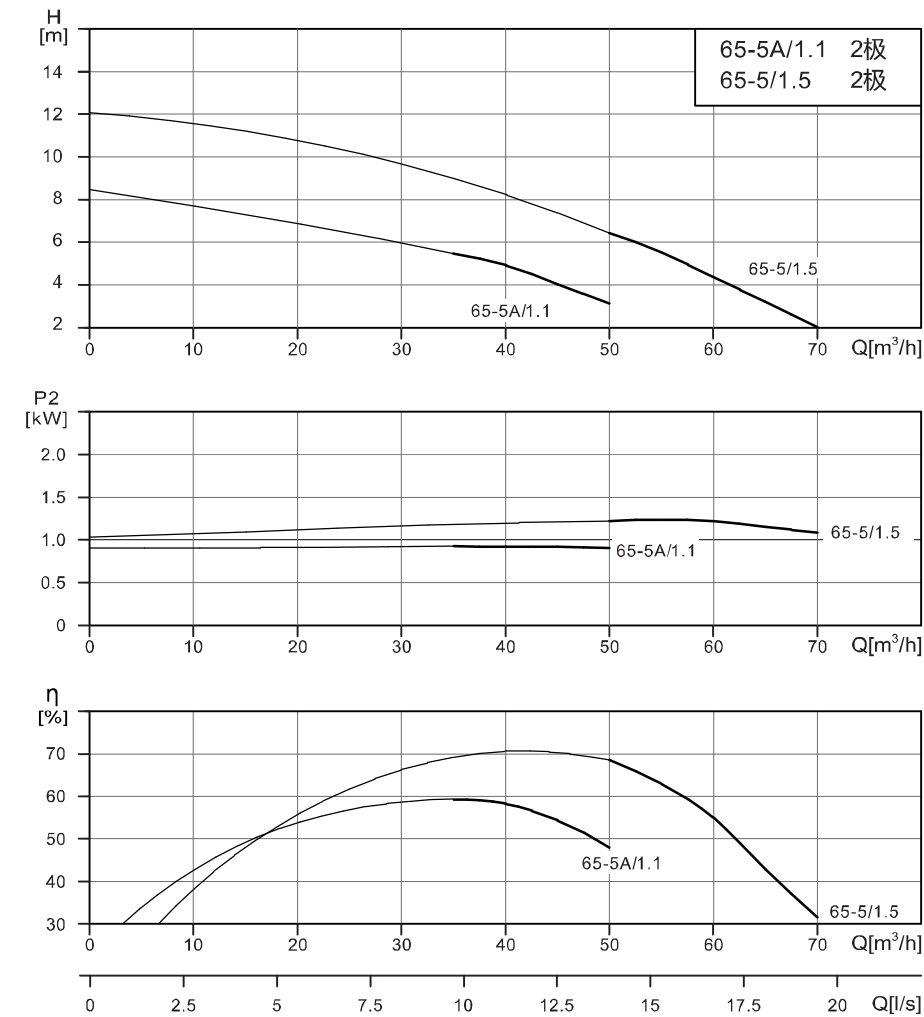
WLT/WLTS/WLTSF(50Hz) Performance table

Model	Motor (kW)	Q(m³/h)	190	200	210	220	230	250	270	290	300
150-6A/5.5	5.5	H(m)	7.2	7	6.6	6	5.6	5.1	4.8		
150-6/7.5	7.5			7.4	7.2	6.7	6.5	6	5.4	4.7	4.5

WLTS(60Hz) Installation sketch



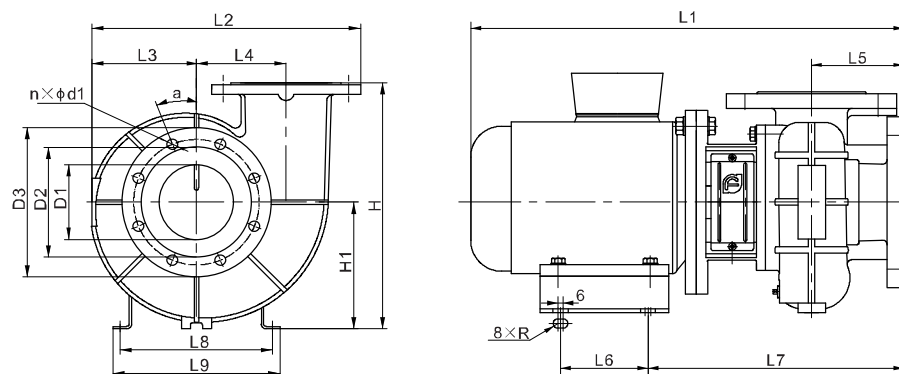
WLTS(60Hz) Performance curve



WLTS(60Hz) Performance table

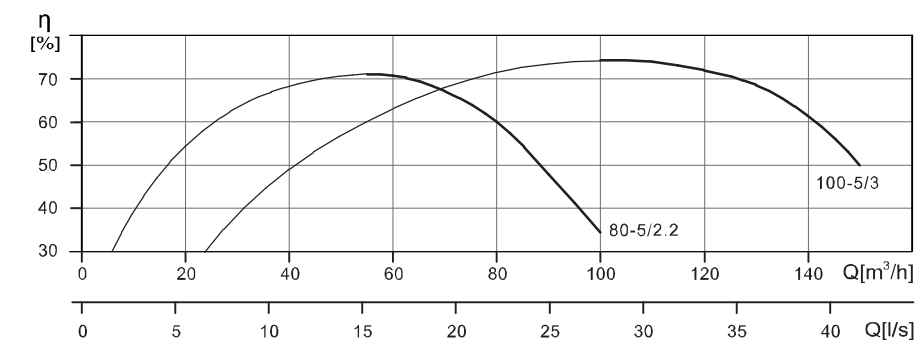
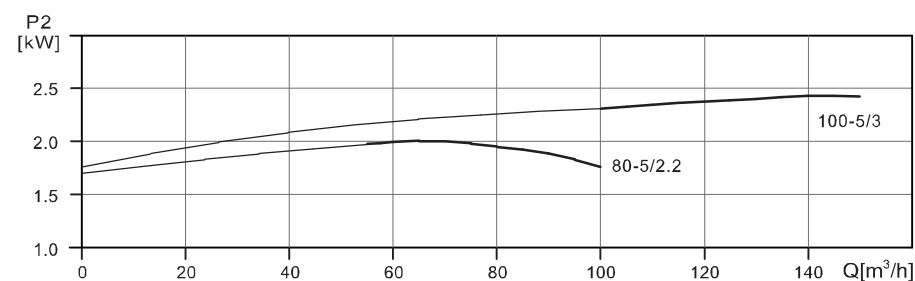
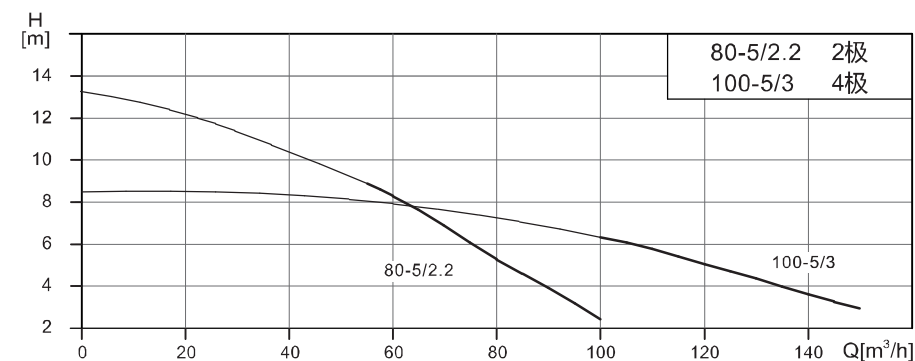
Model	Motor (kW)	Q(m³/h)	35	40	45	50	55	60	65	70
65-5A/1.1	1.1	H(m)	5.8	5	4.4	3.4				
65-5/1.5	1.5					6.4	5	4.5	3.2	2

WLTS(60Hz) 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	a	d1		
WLTS80-5/2.2	490	270	130	295	105	294	230	110	90	200	120	5	80	160	200	8	22.5	18	53	
WLTS100-5/3	588	380	180	400	155	338	250	120	135	225	135	6	100	180	220	8	22.5	18	76	

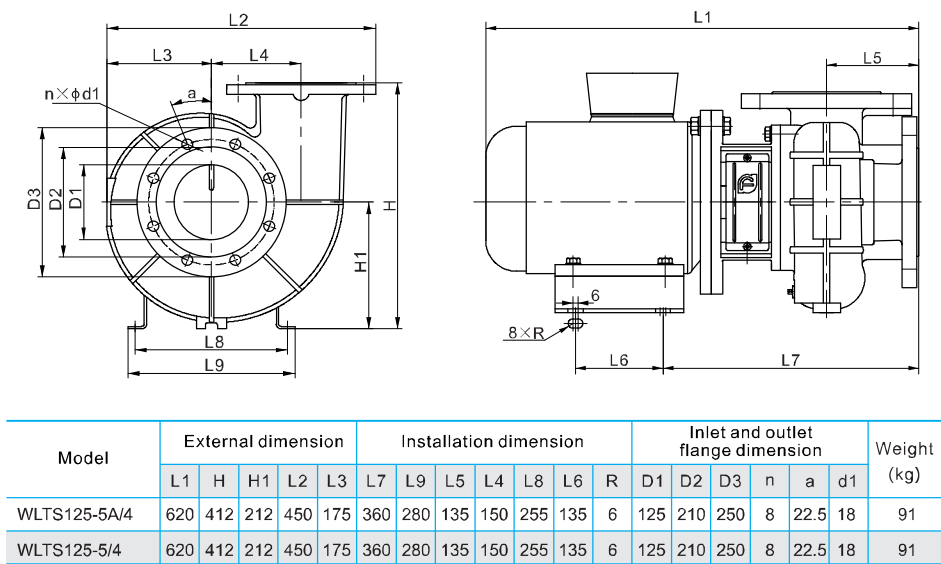
WLTS(60Hz) Performance curve



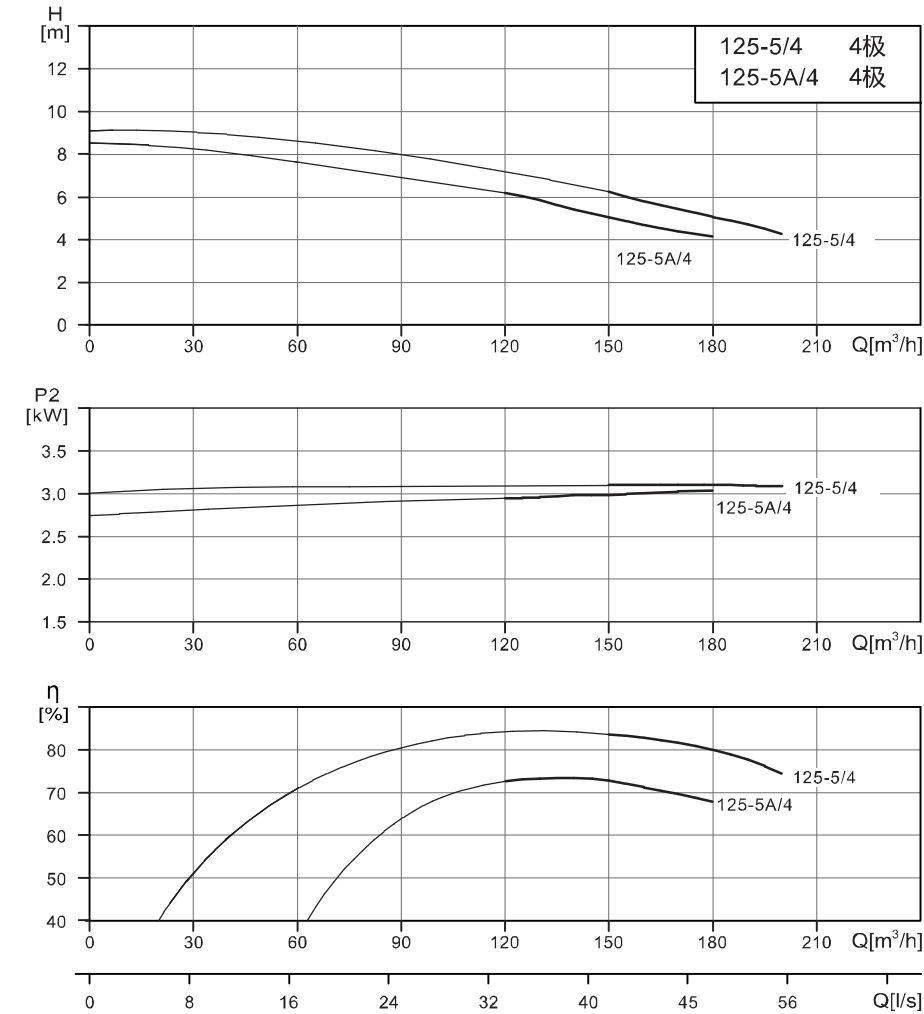
WLTS(60Hz) Performance table

Model	Motor (kW)	Q(m³/h)	55	60	70	80	90	100	110	120	130	140	150
80-5/2.2	2.2	H(m)	9	8.5	7.4	5	3.6	2.3					
100-5/3	3							6.3	5.7	5	4.1	3.4	3

WLTS(60Hz) Installation sketch



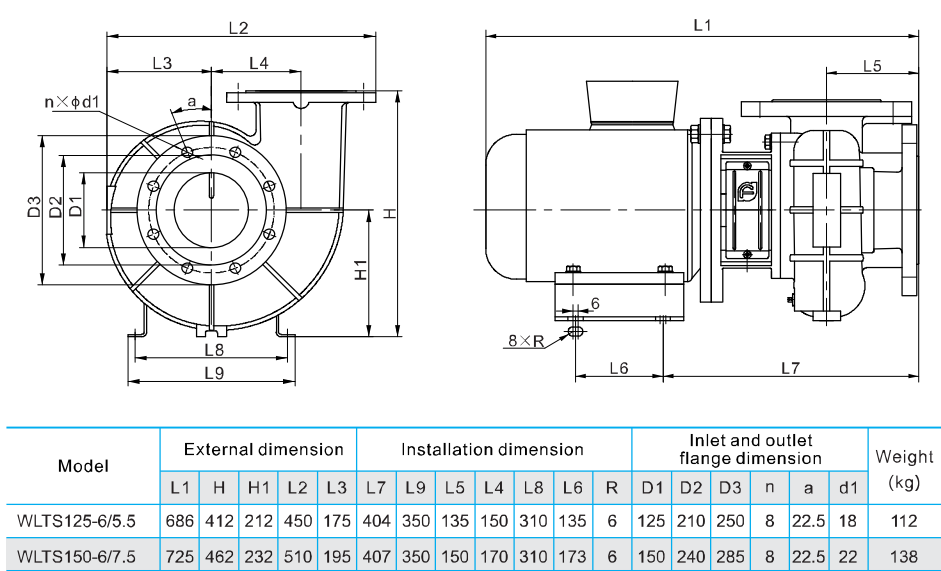
WLTS(60Hz) Performance curve



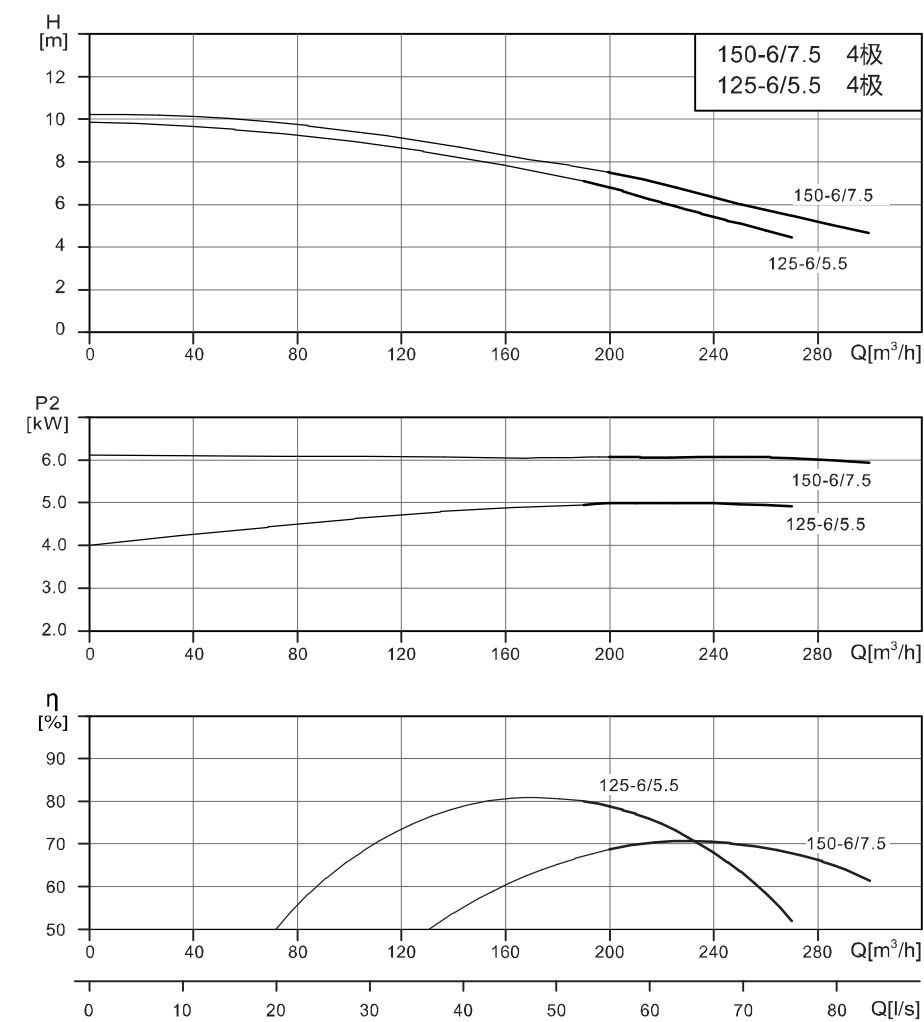
WLTS(60Hz) Performance table

Model	Motor (kW)	Q(m³/h)	120	130	140	150	160	170	180	190	200
125-5A/4	4	H(m)	6.2	6	5.4	5	4.7	4.4	4.1		
125-5/4	4					6.6	6.1	5.6	5	4.7	4.4

WLTS(60Hz) Installation sketch



WLTS(60Hz) Performance curve



WLTS(60Hz) Performance table

Model	Motor (kW)	Q(m³/h)	190	200	210	220	230	250	270	290	300
125-6/5.5	5.5	H(m)	7.8	7.3	6.7	6	5.6	4.8	4.6		
150-6/7.5	7.5			7.39	7.27	7.25	6.8	6	5.4	5.1	4.6