

用心服务 · 品质卓越



YW型液下式排污泵 YW UNDER-WATER SEWAGE PUMPS

使用说明书 Working Instruction

YW型液下式排污泵简介 Brief Introduction of YW Under-water Sewage Pumps

▶ YW型液下式排污泵 YW Under-Water Sewage Pumps



YW型液下式排污泵
液下式（配标准电机）机械轴封
YW Under-Water Sewage Pump
Under-Water Type (Fit Standard Motor) Mechanical Seal

▶ 特点 Features

- 采用了独特的大通道叶轮结构，大大提高了污物通过能力，能有效的通过直径为泵口径约50%的固体颗粒；
- 机组为立式液下式结构，可根据用户的要求采用不同的液下安装深度；
- 经过平衡校验的转子部件及合理的轴承布置有效的平衡了泵的径向及轴向负荷，从而保证了机组能够长期稳定的运行且振动小、噪音低；
- 本型泵可根据用户的要求选择不同的安装方式：单管或双管；
- 采用最新材料精制而成的机械密封，其使用寿命可达8000小时以上；
- 可根据用户的需要配备液位自动控制柜，能根据液位的变化自动控制机组的启动与停车，不需专人看管，使用极为方便，且易于实现自动化管理。
- The impeller adopts particular large channel structure, so the drain capacity has been improved greatly, It can effectively pass the solid grain whose diameter is about 50% of the pump caliber.
- The unit takes a vertical underwater structure to different underwater mounting depth as requested by users.
- The balanced rotor part and the proper bearing arrangement have effectively balanced the radial and axial load of pump. So it ensures the unit to run long and steadily with little vibration and low noise.
- This type pump can adopt different installation forms according to the consumer's requirements: single-pipe or double-pipe.
- Mechanical seal adopts the latest material and is made with extra care, so its life is over 8000 hours.
- The pump can be equipped with liquid-level automatic control cabinet according to the consumer's requirements. The whole machine can be started and stopped automatically according to the changes of level. It doesn't need special person to guard, so the application is quite convenient and it is easy to realize automatic management.

▶ 用途 Applications

- 市政工程排污系统 Sewage system of municipal works
- 生活小区污水排放 Sewage discharging of living plot
- 公共设施污水排放 Sewage discharging of public facilities
- 厂矿企业排污 Sewage discharging of factory and mine corporation
- 其他无腐蚀清洁介质的输送 Other transportation of non-erosion and clear medium
- 可适用于其他排水系统 Unit to other water-discharging system

▶ 工作条件 Operating Conditions

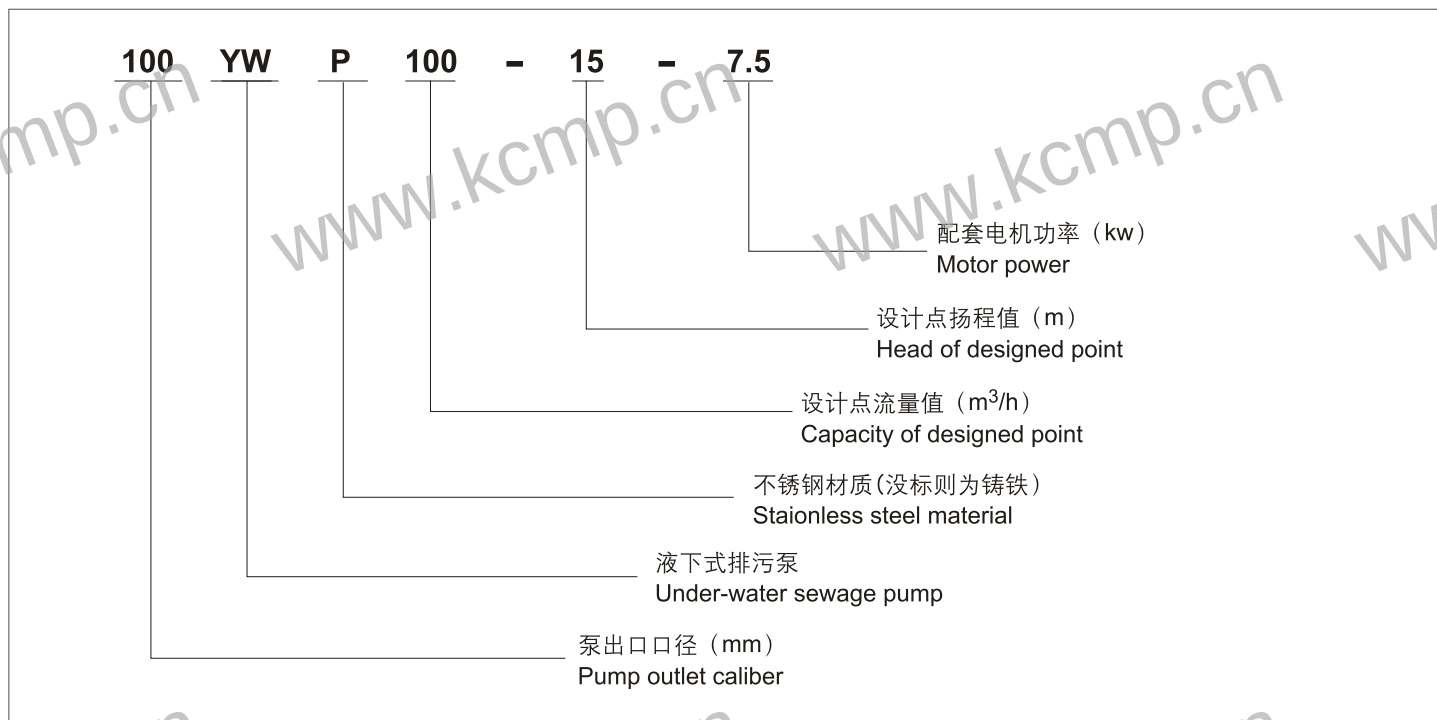
- 流量范围 Capacity scope: 2~850m³/h;
- 扬程范围 Head scope: 3~45m;
- 额定转速 Rated speed: 1450~2900r/min;
- 系统压力 System pressure: ≤ 0.6MPa;
- 介质温度 Medium temperature: -15℃~+60℃;
- 介质密度 Medium consistency: ≤ 1.3 × 10³kg/m³;
- 介质PH值范围 Medium PH scope: 5~9;
- 电机防护等级 Motor protection class: IP44/IP54
- 电机绝缘等级 Motor insulation class: B、F级 B、F grade;
- 旋转方向 Rotation: 由电机向叶轮看顺时针旋转 clockwise rotation viewed from motor;

▶ 供货范围 Supply Scope

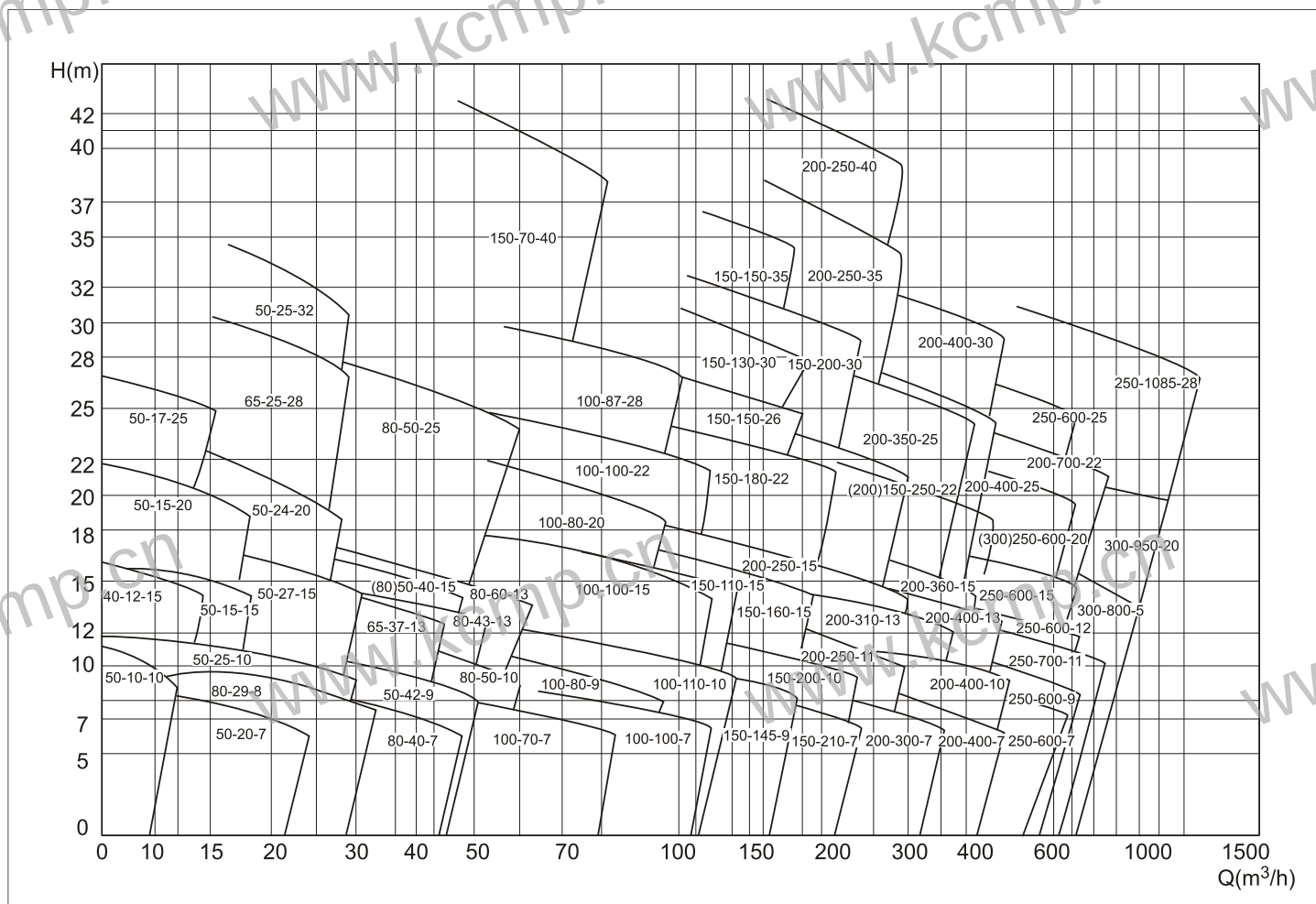
- 水泵、包装及使用说明书。水泵的挠性接头。连接软管及自动控制装置等可作为附件供货（附件需另计价）。
注：特殊温度、压力、强腐蚀性等情形应事先提出，以便提供更为可靠之产品。
 - Pump, packing and specification. Pump flexible joint. The connective soft-pipe and automatic control device etc can be provided as accessories(accessories shall be valued separately).
- Note: Cases of special temperature, pressure, high erosion etc should be put forward in advance, so we can provide you more reliable product.

YW型泵型号意义、型谱图 Designation and Hydraulic Coverage of WL Pumps

型号意义 Designation

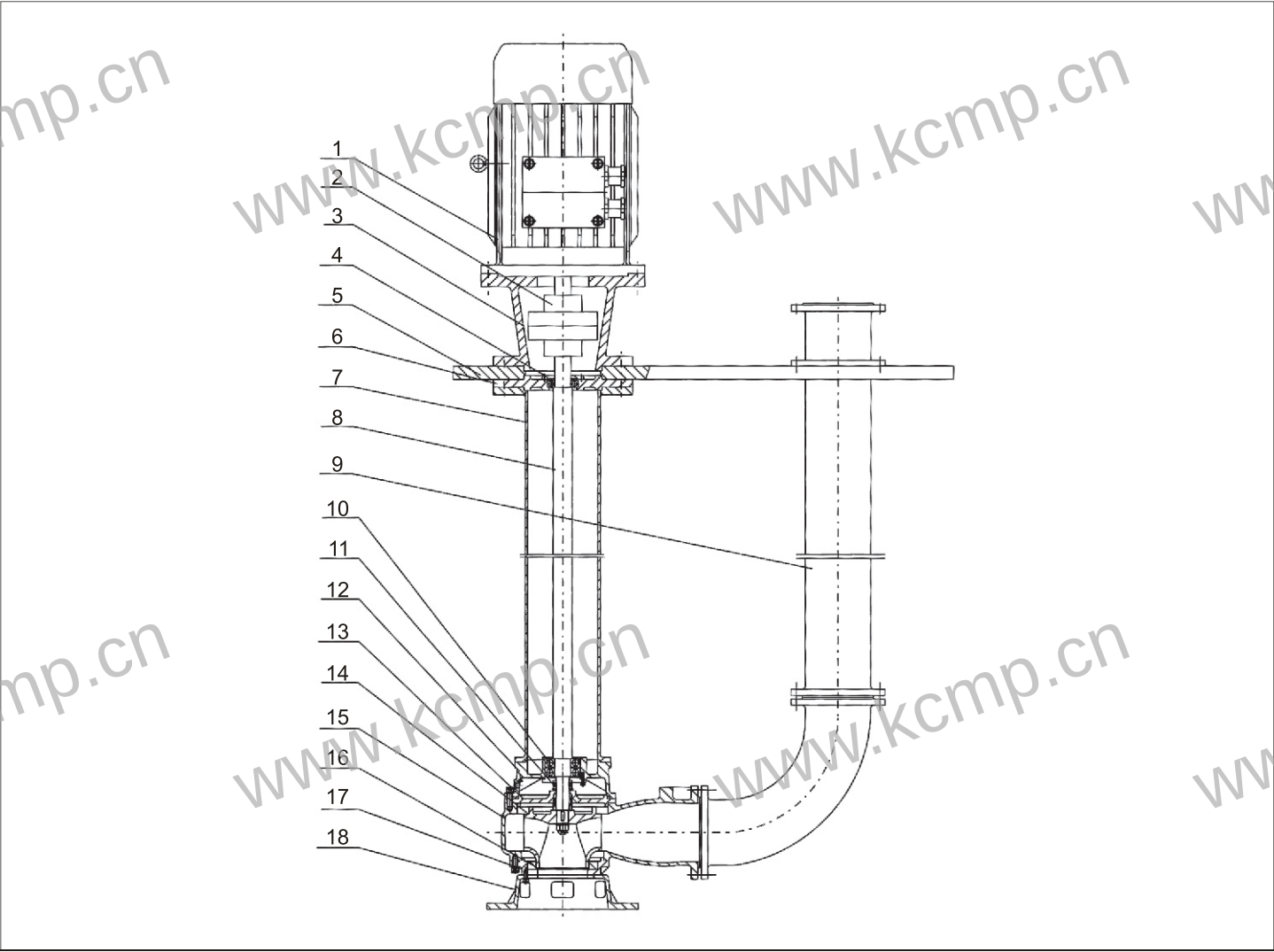


型谱图 Hydraulic Coverage



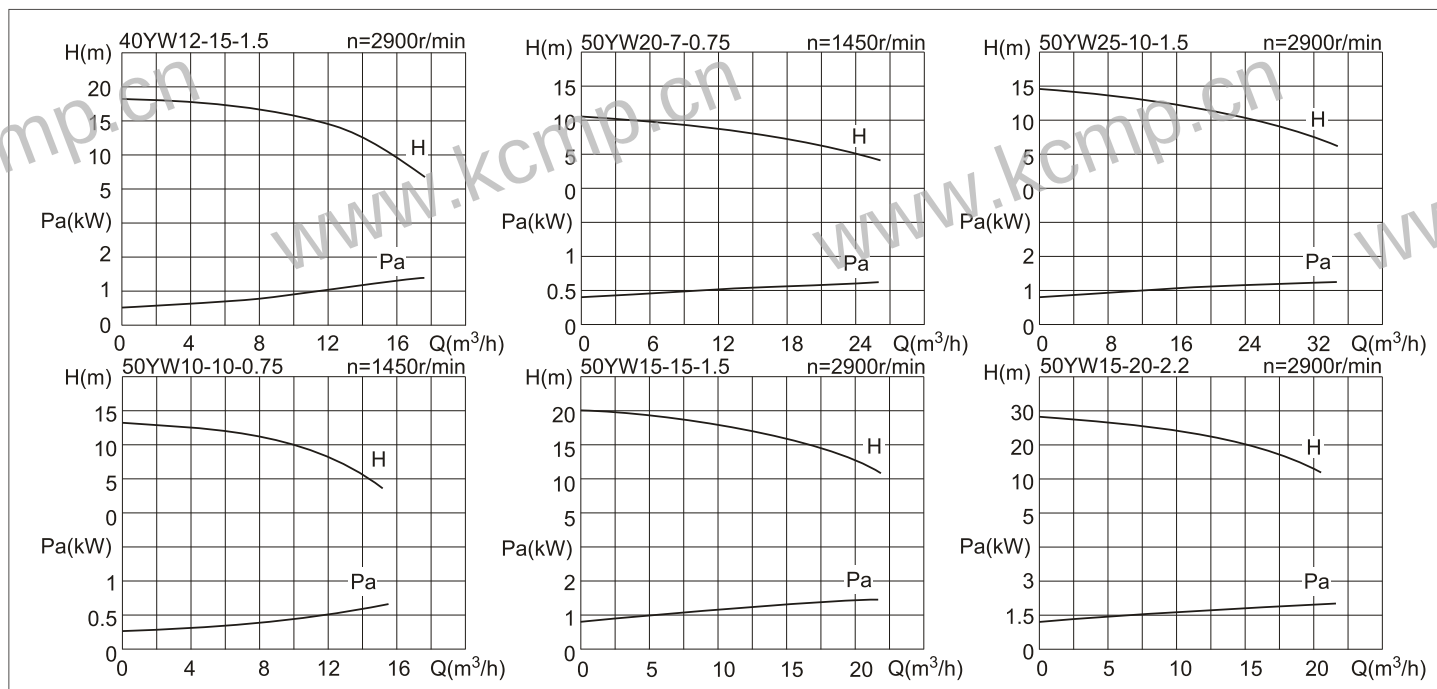
YW型泵结构图及材料表 Structural Drawing and Material Table of YW Pumps

结构图 Structural Drawing

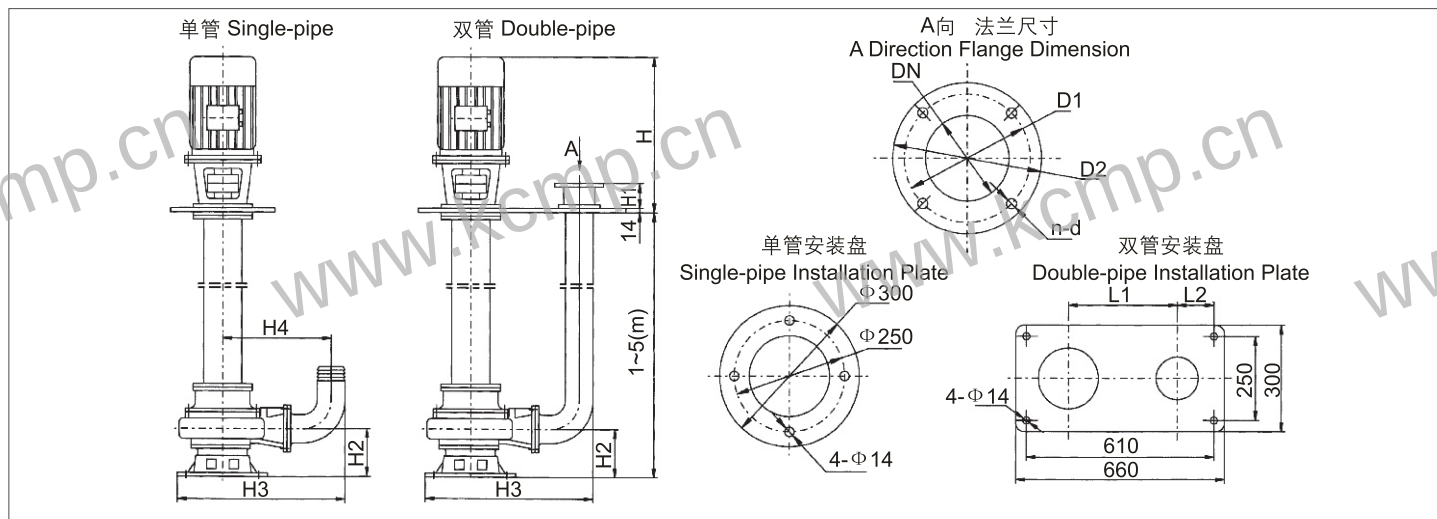


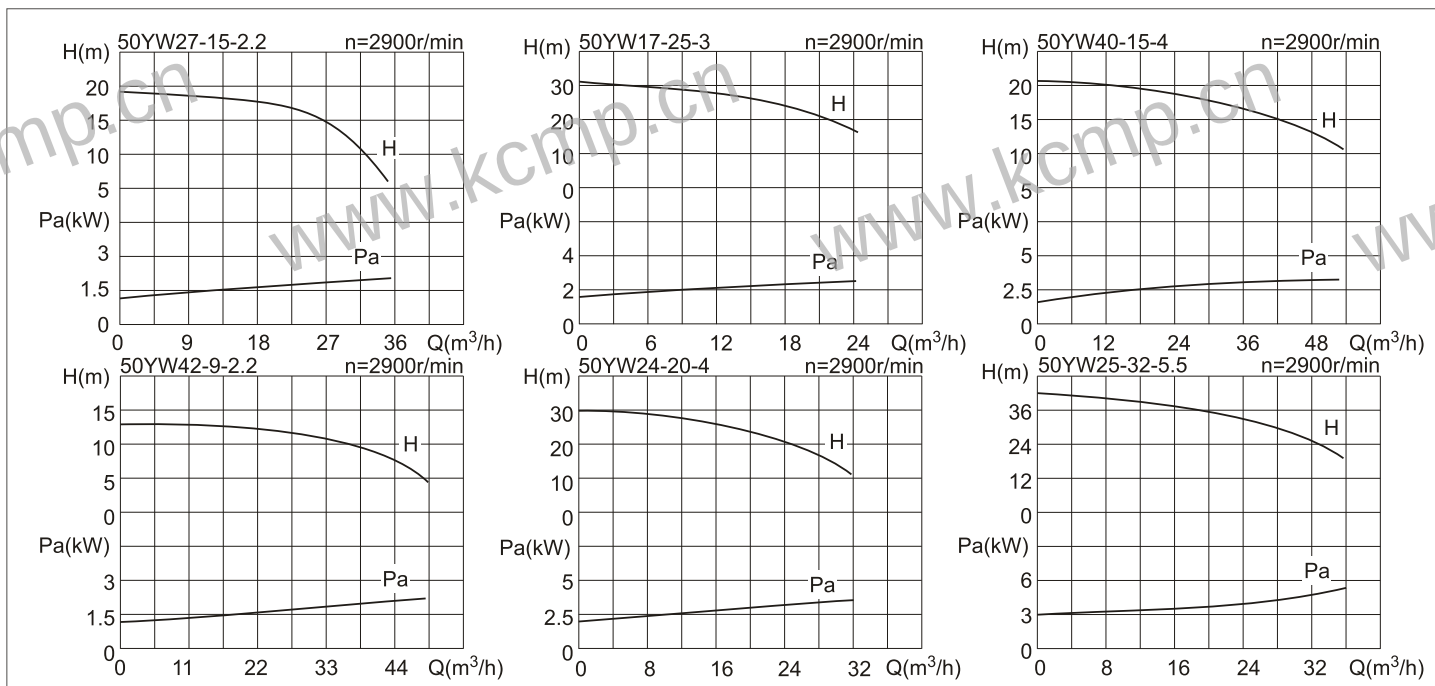
材料表 Material Table

序号 No.	名称 Name	材料 Material	序号 No.	名称 Name	材料 Material	序号 No.	名称 Name	材料 Material	序号 No.	名称 Name	材料 Material
1	电机 Motor	Y或Y2	6	轴承座 Bearing Stand	HT200	11	机械密封 Mechanical Seal	组件 Subassembly	16	密封环 Wear Ring	铜或HT200 Copper or Ht200
2	联轴器 Coupling	HT250	7	支撑管 Strong Pipe	钢管 Steel Tube	12	油室 Oil Chanber	HT200	17	泵体下盖 Pump Below Cover	HT200
3	电机支架 Motor Support	HT200	8	主轴 Pump Shaft	45#	13	油室平板 Oil Chanber Flat	HT200	18	底座 Base	HT200
4	滚动轴承 Rolling Bearing	轴承钢 Bearing Steel	9	出液管 Liquid-out pipe	钢管 Steel Tube	14	叶轮 Impeller	HT200			
5	安装平盘 Installation Plate	钢板 Armor Plate	10	滚动轴承 Rolling Bearing	轴承钢 Bearing Steel	15	泵体 Casing	HT200			

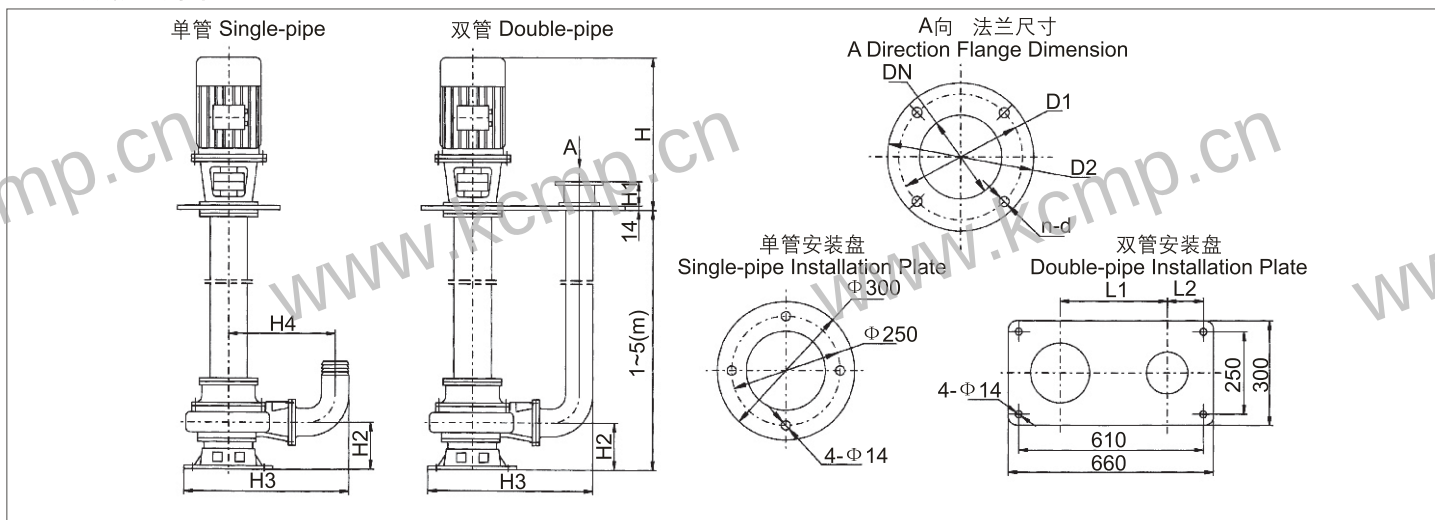
▶ 性能曲线图 Performance Curve

▶ 性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

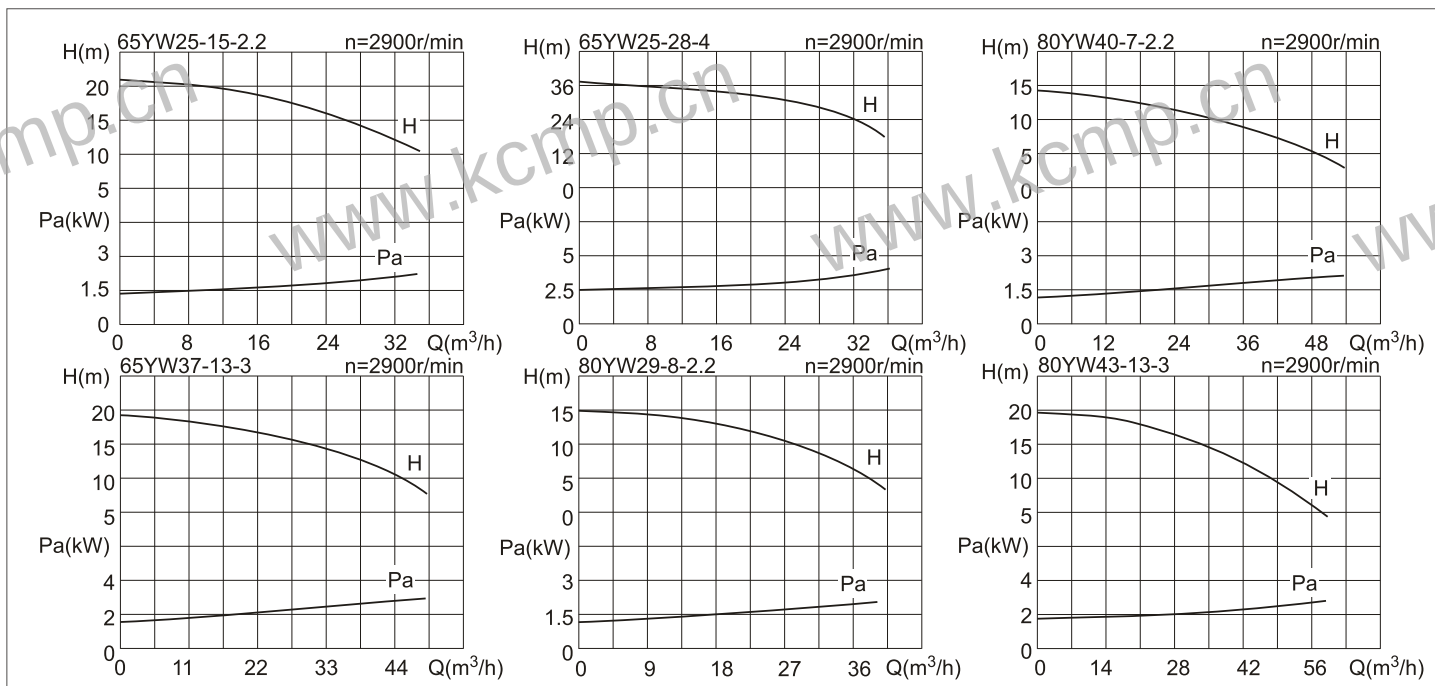
Type 泵型号	Q m³/h 流量	Head (m) 扬程	Efficiency % 效率	Power kW 电机功率	Speed r/min 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
40YW12-15-1.5	8.4 12 14.4	16 15 14	41 48 47	1.5	2900	350	80	108	345	217	200	160	φ40	φ100	φ130	4-φ14	60
50YW10-10-0.75	7 10 12	11.5 10 8	48 54 52	0.75	1450	340	80	108	350	222	222	160	φ50	φ110	φ140	4-φ14	50
50YW20-7-0.75	14 20 24	7.8 7 6.2	53 62 61	0.75	1450	340	80	108	350	222	222	160	φ50	φ110	φ140	4-φ14	50
50YW15-15-1.5	10.5 15 18	16.5 15 14	42 51 50	1.5	2900	350	80	108	350	222	222	160	φ50	φ110	φ140	4-φ14	60
50YW25-10-1.5	17.5 25 30	11.5 10 8	55 67 65	1.5	2900	350	80	108	350	222	222	160	φ50	φ110	φ140	4-φ14	60
50YW15-20-2.2	10.5 15 18	22.5 20 17.3	47 51 51	2.2	2900	375	80	108	410	250	250	160	φ50	φ110	φ140	4-φ14	60

▶ 安装尺寸图 Installation Dimensions Drawing


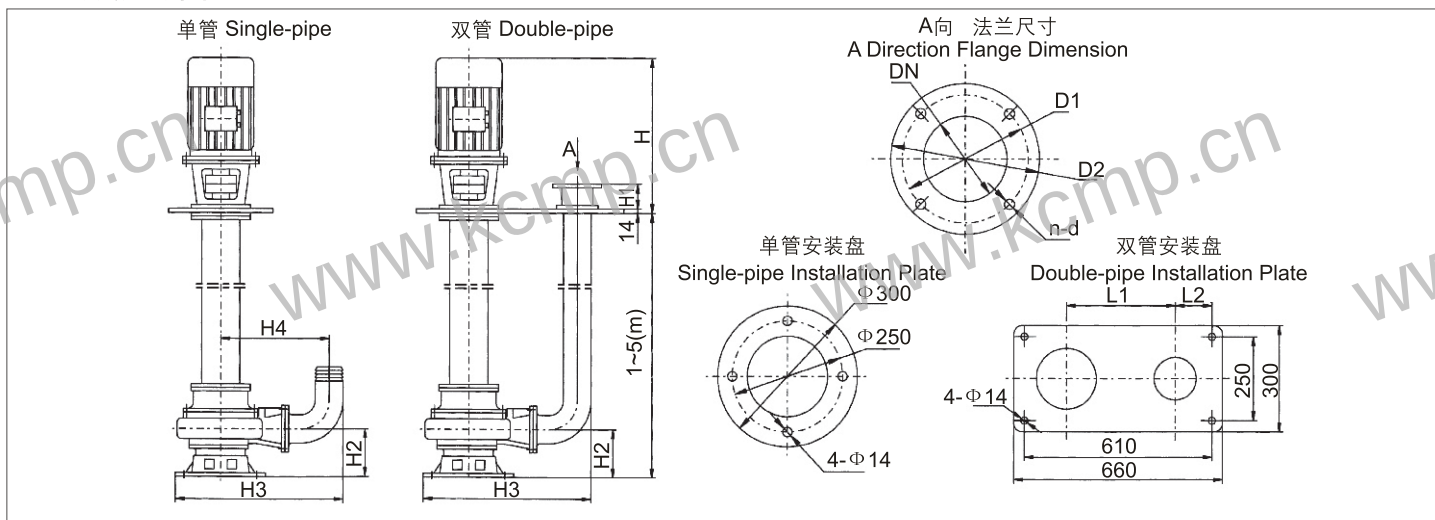
性能曲线图 Performance Curve

性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency 效率	Power kW 电机功率	rpm speed 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
50YW27-15-2.2	18.9 27 32.4	16.5 15 14	61 70 68	2.2	2900	375	80	108	410	250	250	160	φ50	φ110	φ140	4-φ14	65
50YW42-9-2.2	38 42 44	10 9 7	54 58 56	2.2	2900	375	80	113	410	259	259	160	φ50	φ110	φ140	4-φ14	70
50YW17-25-3	11.9 17 20.4	26 25 23.8	44 53 61	3	2900	430	80	150	410	250	250	160	φ50	φ110	φ140	4-φ14	75
50YW24-20-4	22 24 28	23 20 17	56 67 61	4	2900	450	80	150	440	250	250	160	φ50	φ110	φ140	4-φ14	90
50YW40-15-4	28 40 48	16.5 15 14	56 67 64	4	2900	450	80	113	420	259	259	160	φ50	φ110	φ140	4-φ14	90
50YW25-32-5.5	17.5 25 30	36 32 27.5	42 49 51	5.5	2900	540	80	125	450	265	265	160	φ50	φ110	φ140	4-φ14	90

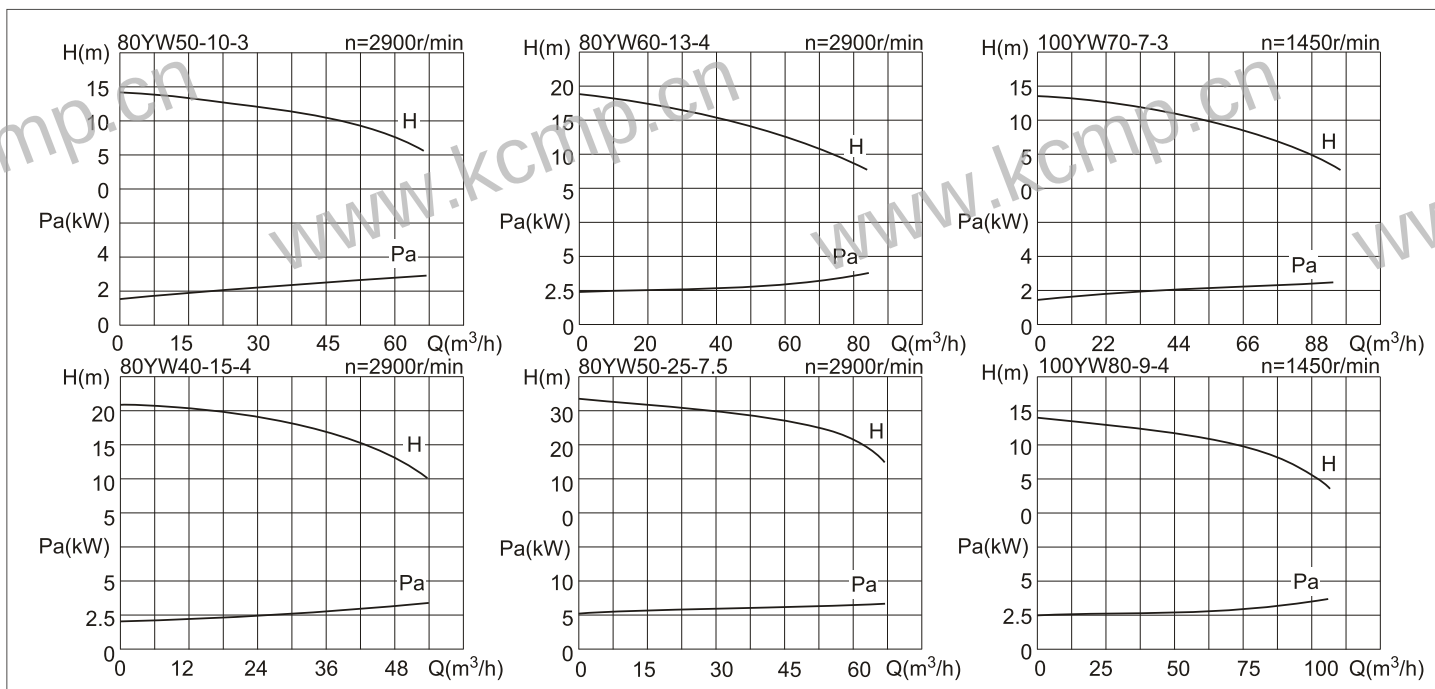
安装尺寸图 Installation Dimensions Drawing


性能曲线图 Performance Curve

性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency % 效率	Power kW 电机功率	Speed r/min 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
65YW25-15-2.2	17.5 25 30	17.2 15 13	46 52 54	2.2	2900	375	80	180	420	250	270	160	$\phi 65$	$\phi 130$	$\phi 160$	4- $\phi 14$	65
65YW37-13-3	25.9 37 44.4	14.5 13 11	52 60 58	3	2900	430	80	144	430	263	283	160	$\phi 65$	$\phi 130$	$\phi 160$	4- $\phi 14$	75
65YW25-28-4	17.5 25 30	30.2 28 26	47 58 62	4	2900	450	80	147	465	260	283	160	$\phi 65$	$\phi 130$	$\phi 160$	4- $\phi 14$	90
80YW29-8-2.2	20.3 29 34.8	9.5 8 6.5	39 45 43	2.2	2900	375	100	141	500	313	313	160	$\phi 80$	$\phi 150$	$\phi 190$	4- $\phi 18$	70
80YW40-7-2.2	28 40 48	9.5 7 5.7	49 50 47	2.2	2900	375	100	141	500	313	313	160	$\phi 80$	$\phi 150$	$\phi 190$	4- $\phi 18$	70
80YW43-13-3	30.1 43 51.6	15.2 13 9	58 65 53	3	2900	430	100	141	500	313	313	160	$\phi 80$	$\phi 150$	$\phi 190$	4- $\phi 18$	90

安装尺寸图 Installation Dimensions Drawing


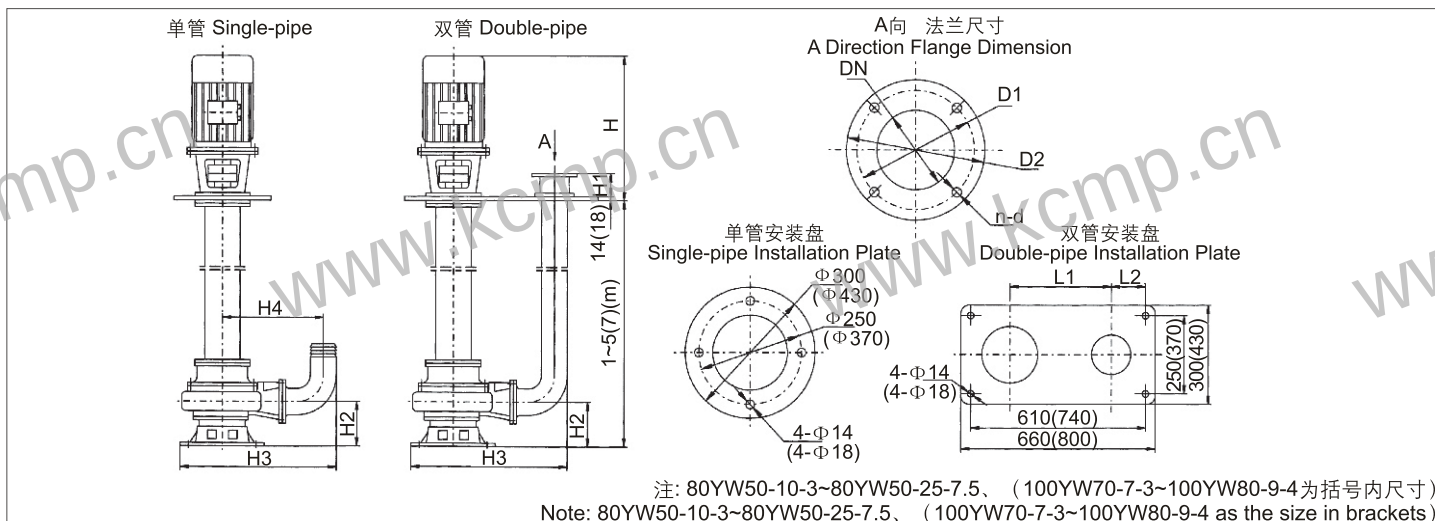
▶ **性能曲线图** Performance Curve



▶ **性能参数及安装尺寸表** Performance Parameters and Installation Dimensions

Type 泵型号	Q m³/h Capacity 流量	Head (m) 扬程	% Efficiency 效率	Power kW 电机功率	n/min speed 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
80YW50-10-3	35 50 60	11.5 10 8	58 65 53	3	2900	430	100	141	500	313	313	160	φ 80	φ 150	φ 190	4-φ 18	75
80YW40-15-4	28 40 48	17 15 13.3	52 57 60	4	2900	450	100	145	500	315	315	160	φ 80	φ 150	φ 190	4-φ 18	90
80YW60-13-4	42 60 72	14.5 13 11	64 72 70	4	2900	450	100	145	500	315	315	160	φ 80	φ 150	φ 190	4-φ 18	90
80YW50-25-7.5	35 50 60	27.5 25 22.5	45 56 61	7.5	2900	540	100	186	560	337	337	160	φ 80	φ 150	φ 210	4-φ 18	160
100YW70-7-3	49 70 84	9.5 7 5.7	64 75 73	3	1450	430	100	213	680	410	420	155	φ 100	φ 170	φ 210	4-φ 18	110
100YW80-9-4	56 80 96	11 9 7	55 62 57	4	1450	450	100	213	680	410	420	155	φ 100	φ 170	φ 210	4-φ 18	110

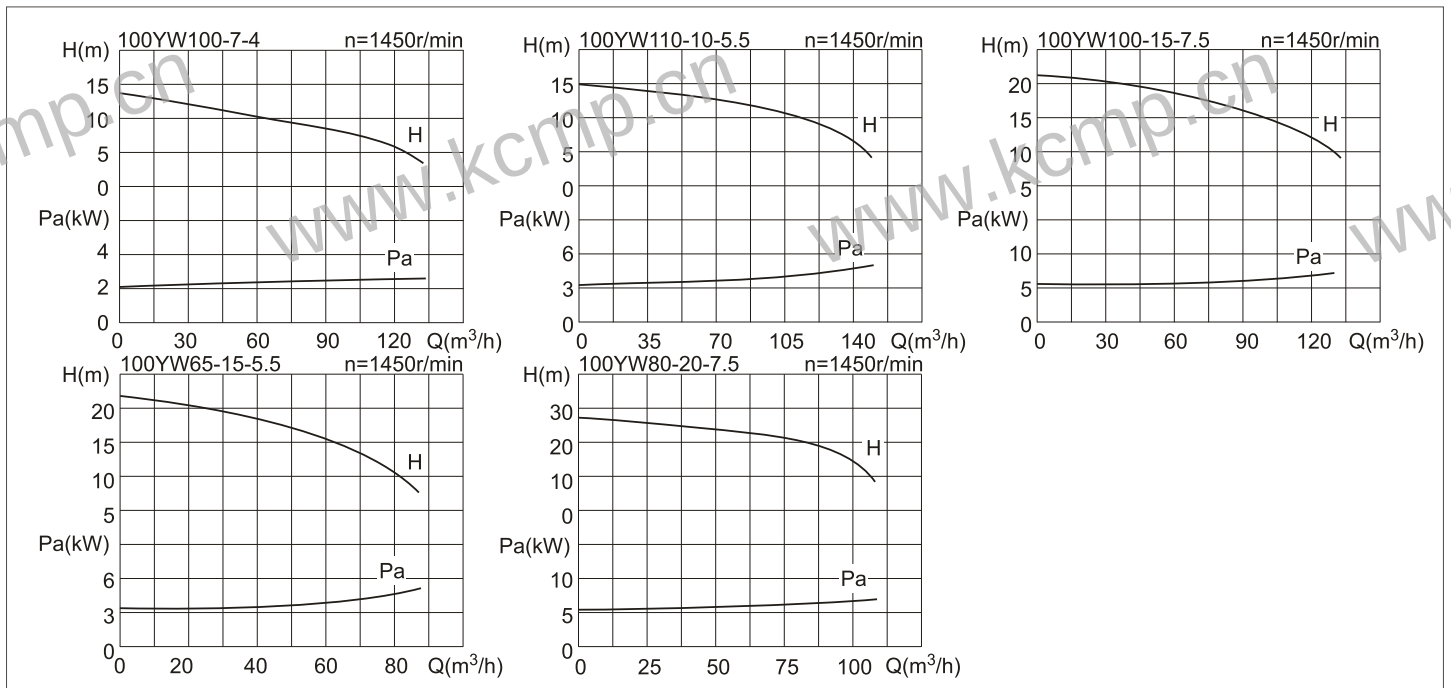
▶ **安装尺寸图** Installation Dimensions Drawing



YW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve, Performance Parameters and Installation Dimensions Drawing、Table of YW Pumps

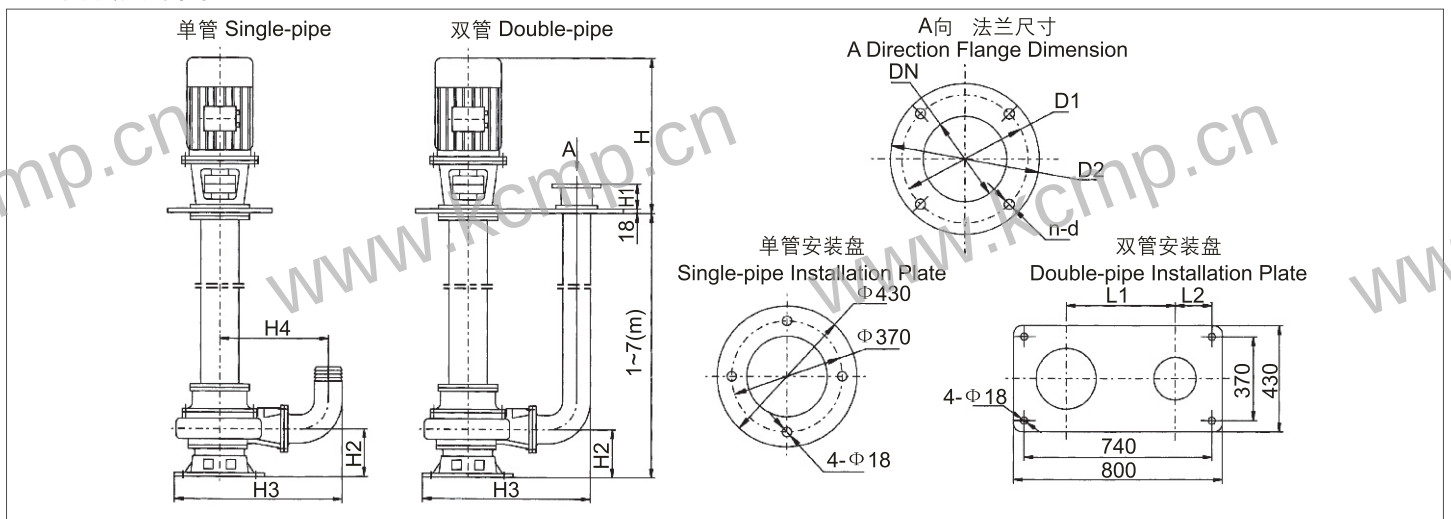
性能曲线图 Performance Curve



性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

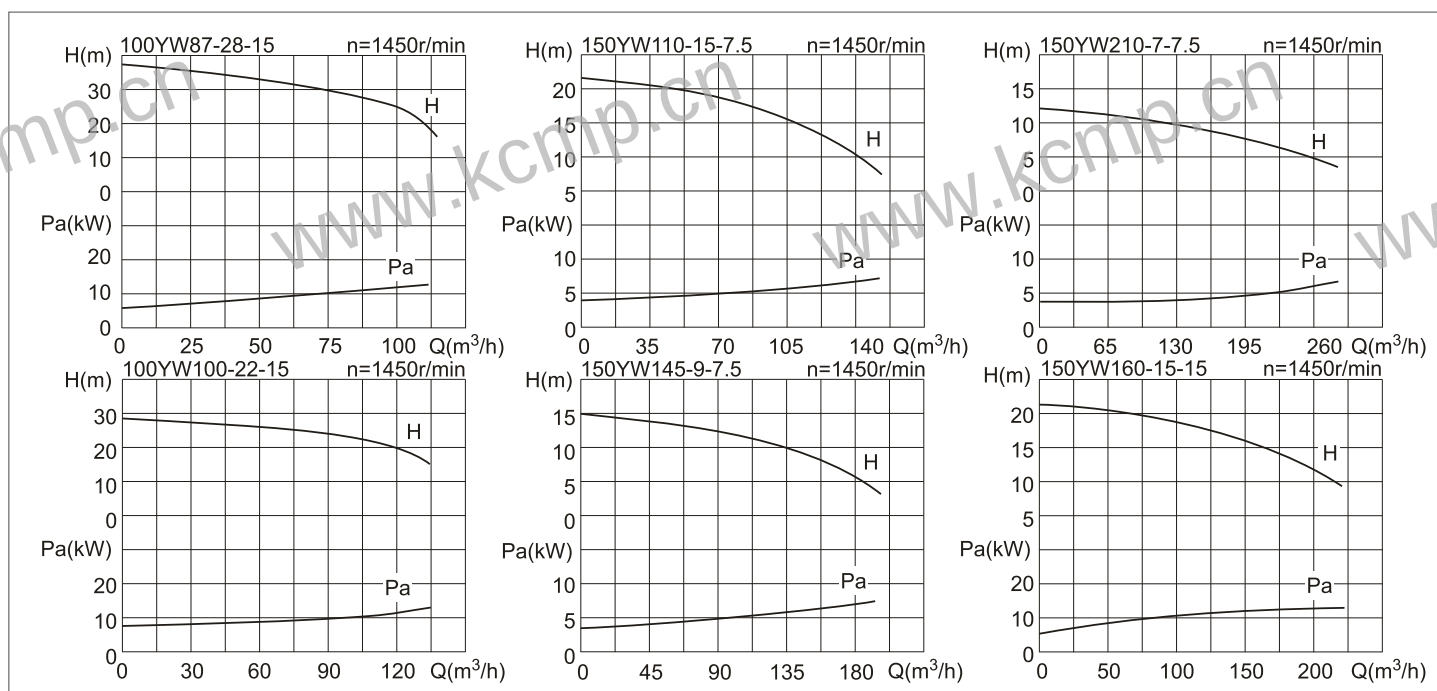
Type 泵型号	Q Capacity m³/h 流量	Head (m) 扬程	% Efficiency 效率	Power kW 电机功率	(r/min) speed 转速	H mm	H1 mm	H2 mm	H3 mm	H4 mm	L1 mm	L2 mm	DN mm	D1 mm	D2 mm	n-d mm	Weight kg 泵重量
100YW100-7-4	70 100 120	9.4 7 5.6	66 75 72	4	1450	450	100	213	680	410	420	155	φ100	φ170	φ210	4-φ18	110
100YW65-15-5.5	45.5 65 78	17.5 15 12	51 59 58	5.5	1450	540	100	193	690	425	425	155	φ100	φ170	φ210	4-φ18	140
100YW110-10-5.5	77 110 132	11.5 10 7	60 67 65	5.5	1450	540	100	193	690	425	425	155	φ100	φ170	φ210	4-φ18	140
100YW80-20-7.5	56 80 96	22.5 20 17	64 71 70	7.5	1450	580	100	188	690	425	425	155	φ100	φ170	φ210	4-φ18	165
100YW100-15-7.5	70 100 120	17.5 15 12.5	59 70 68	7.5	1450	580	100	188	690	425	425	155	φ100	φ170	φ210	4-φ18	165

安装尺寸图 Installation Dimensions Drawing



YW型泵性能曲线图、性能参数及安装尺寸图表 Performance Curve, Performance Parameters and Installation Dimensions Drawing、Table of YW Pumps

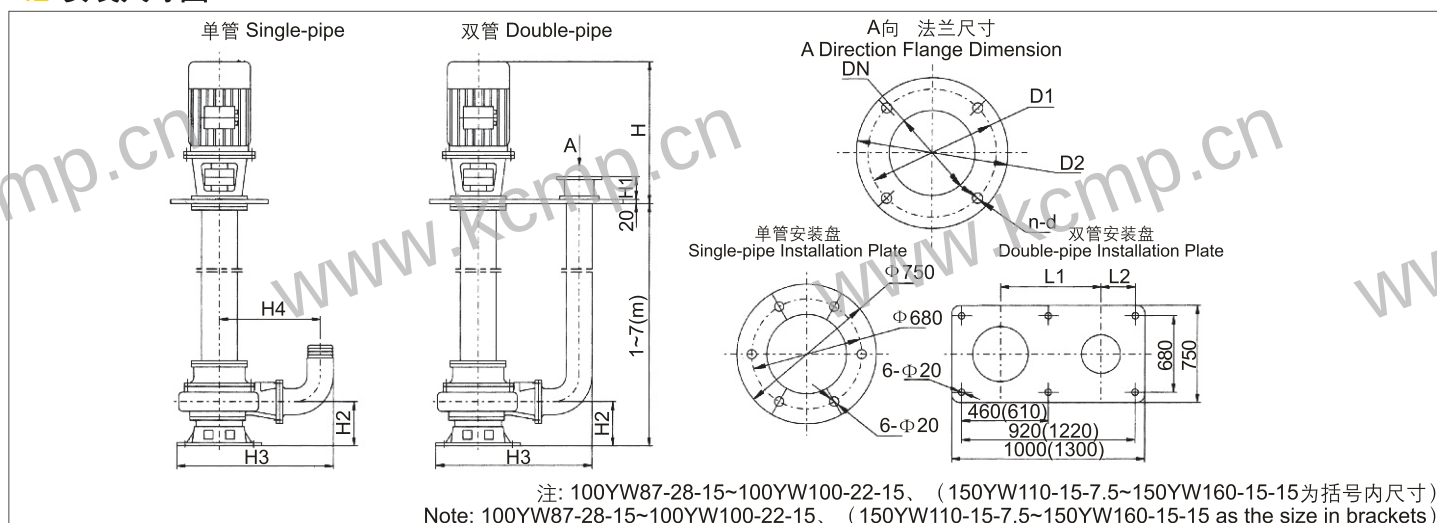
▶ **性能曲线图** Performance Curve



▶ **性能参数及安装尺寸表** Performance Parameters and Installation Dimensions

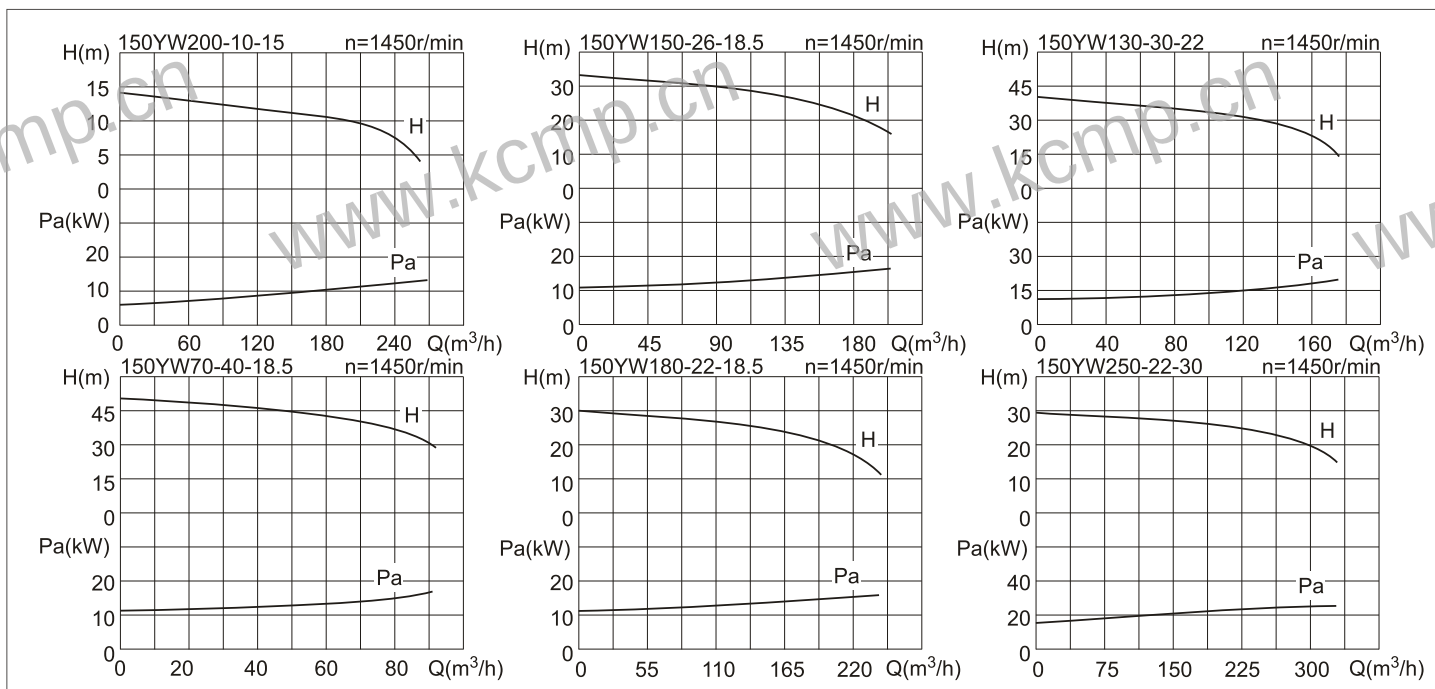
Type 泵型号	Q Capacity m³/h 流量	Head (m) 扬程	% Efficiency 效率	Power kW 电机功率	1450 r/min 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
100YW87-28-15	60.9 87 104.4	31 28 25.3	59 69 67	15	1450	745	100	243	820	505	505	185	φ100	φ170	φ210	4-φ18	250
100YW100-22-15	70 100 120	23.3 22 20.5	49 61 63	15	1450	745	100	243	820	505	505	185	φ100	φ170	φ210	4-φ18	250
150YW110-15-7.5	77 100 132	17.5 15 12.5	64 75 72	7.5	1450	580	140	208	820	535	535	230	φ150	φ225	φ265	8-φ18	165
150YW145-9-7.5	101.5 145 174	11 9 6.6	57 63 64	7.5	1450	580	140	208	820	535	535	230	φ150	φ225	φ265	8-φ18	165
150YW210-7-7.5	147 210 252	8.3 7 5.5	72 80 78	7.5	1450	580	140	208	820	535	535	230	φ150	φ225	φ265	8-φ18	165
150YW160-15-15	112 160 192	18 15 12.5	64 67 66	15	1450	745	140	228	935	600	600	230	φ150	φ225	φ265	8-φ18	300

▶ **安装尺寸图** Installation Dimensions Drawing



YW型泵性能曲线图、性能参数及安装尺寸图表 Performance Curve, Performance Parameters and Installation Dimensions Drawing、Table of YW Pumps

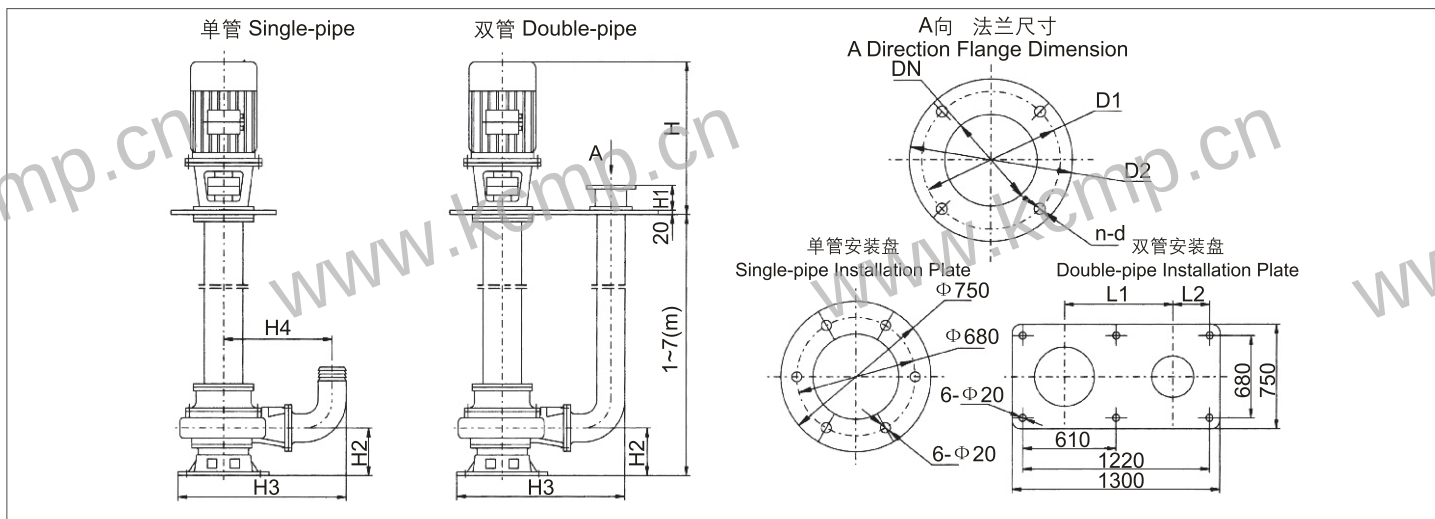
▶ **性能曲线图** Performance Curve



▶ **性能参数及安装尺寸表** Performance Parameters and Installation Dimensions

Type 泵型号	Q m^3/h 流量	Head (m) 扬程	Efficiency % 效率	Power kW 电机功率	rpm 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
150YW200-10-15	140 200 240	11.5 10 7	56 64 62	15	1450	745	140	228	935	600	600	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	300
150YW70-40-18.5	49 70 84	44.5 40 36	46 54 52	18.5	1450	830	140	230	865	605	605	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	400
150YW150-26-18.5	105 150 180	28.5 26 23.7	60 72 70	18.5	1450	830	140	230	865	605	605	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	400
150YW180-22-18.5	126 180 216	25 22 17	68 74 72	18.5	1450	830	140	230	865	605	605	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	400
150YW130-30-22	91 130 156	35 30 24	63 69 63	22	1450	865	140	230	940	605	605	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	420
150YW250-22-30	175 250 300	23.5 22 19.8	64.7 73.5 71	30	1450	925	140	280	1045	615	615	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	480

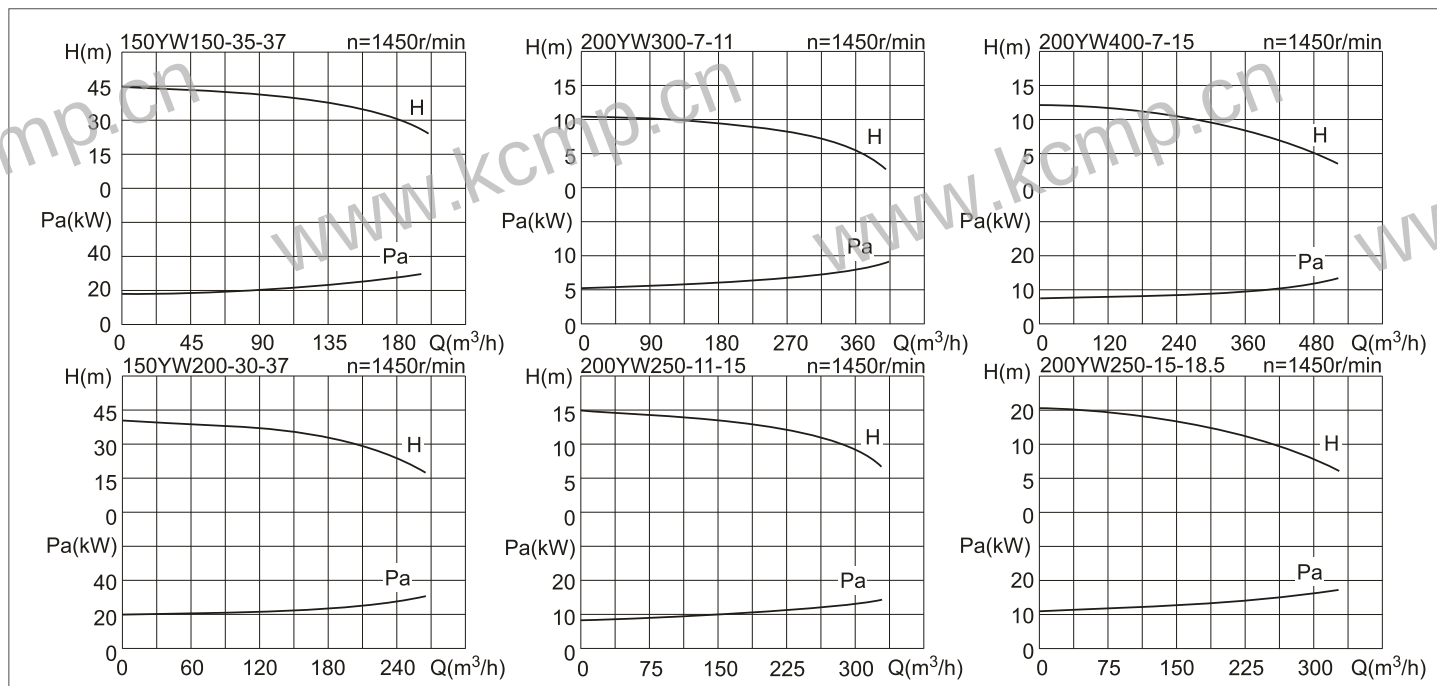
▶ **安装尺寸图** Installation Dimensions Drawing



YW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve, Performance Parameters and Installation Dimensions Drawing、Table of YW Pumps

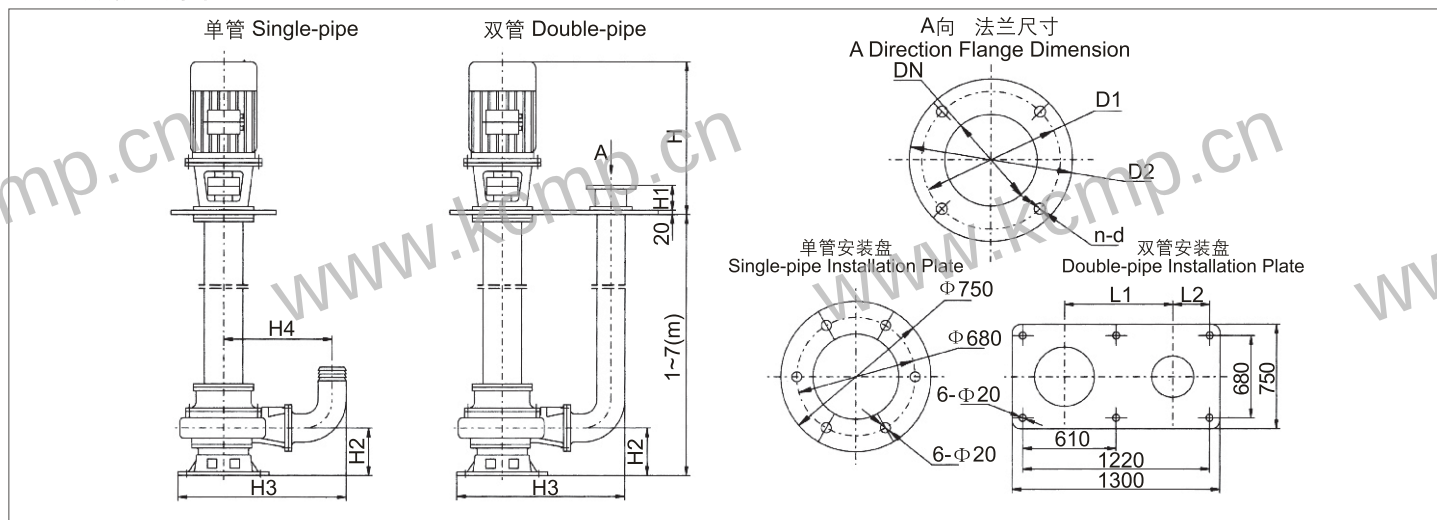
性能曲线图 Performance Curve



性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency 效率	Power kW 电机功率	min speed 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
150YW150-35-37	105	40	57	37	1450	990	140	280	1045	615	615	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	750
	150	35	63														
	180	30	64														
150YW200-30-37	140	35	60	37	1450	990	140	280	1045	615	615	230	$\phi 150$	$\phi 225$	$\phi 265$	8- $\phi 18$	750
	200	30	65														
	240	24	62														
200YW300-7-11	210	8.2	68	11	1450	700	200	220	905	537	530	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	370
	300	7	75														
	360	5.9	72														
200YW250-11-15	175	13.2	68	15	1450	745	200	220	905	537	537	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	420
	250	11	73														
	300	9	68														
200YW400-7-15	280	9	68	15	1450	745	200	220	905	537	537	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	420
	400	7	70														
	480	5.5	63														
200YW250-15-18.5	175	17.7	60	18.5	1450	830	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	420
	250	15	72														
	300	13	71														

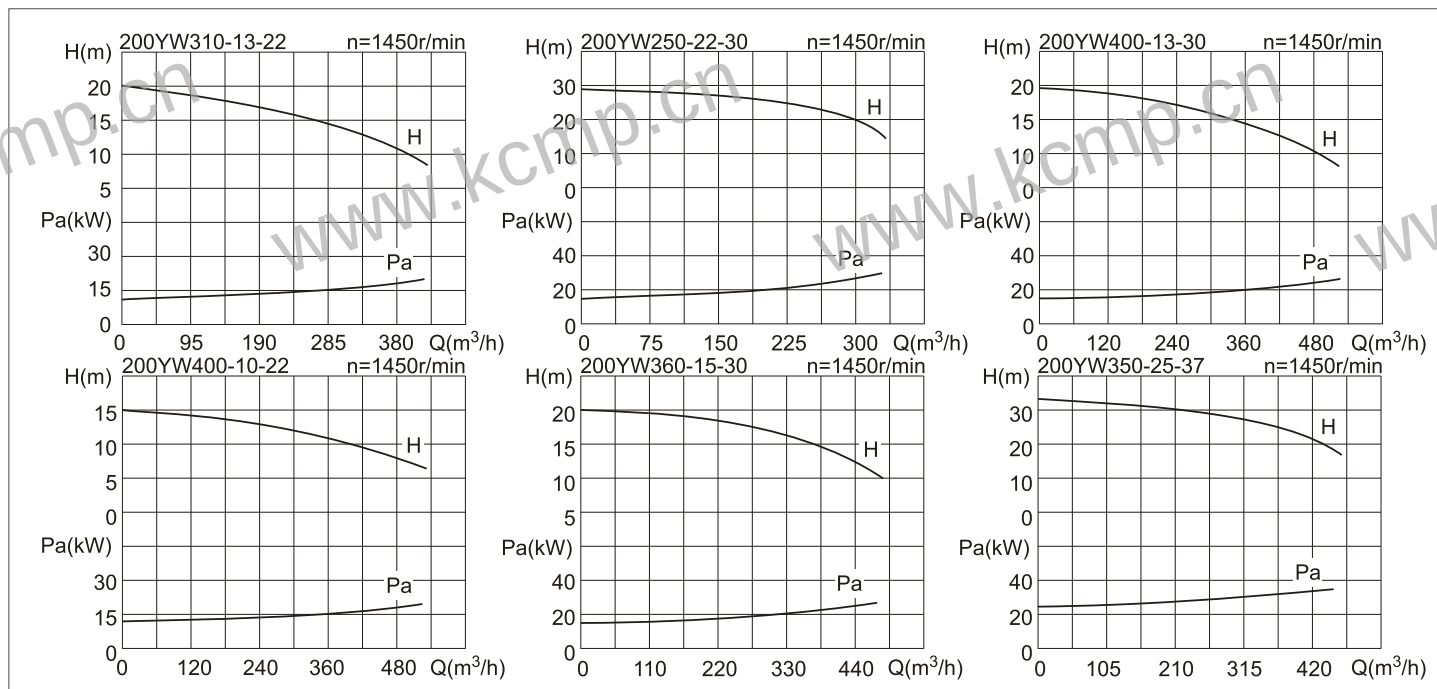
安装尺寸图 Installation Dimensions Drawing



YW型泵性能曲线图、性能参数及安装尺寸图表

Performance Curve, Performance Parameters and Installation Dimensions Drawing、Table of YW Pumps

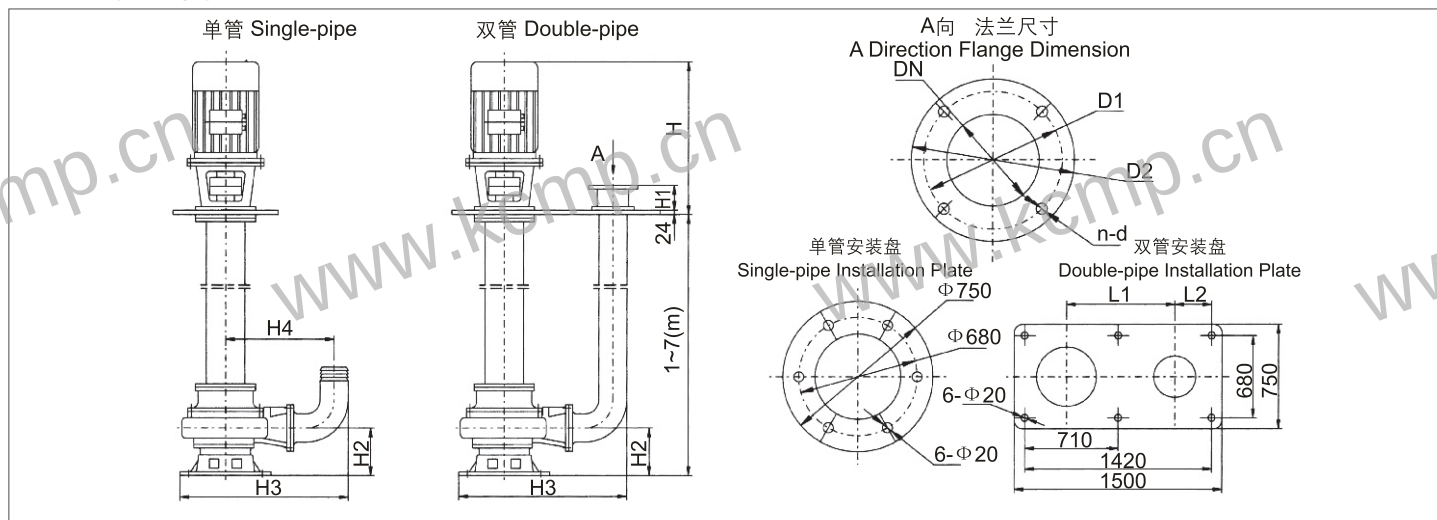
性能曲线图 Performance Curve



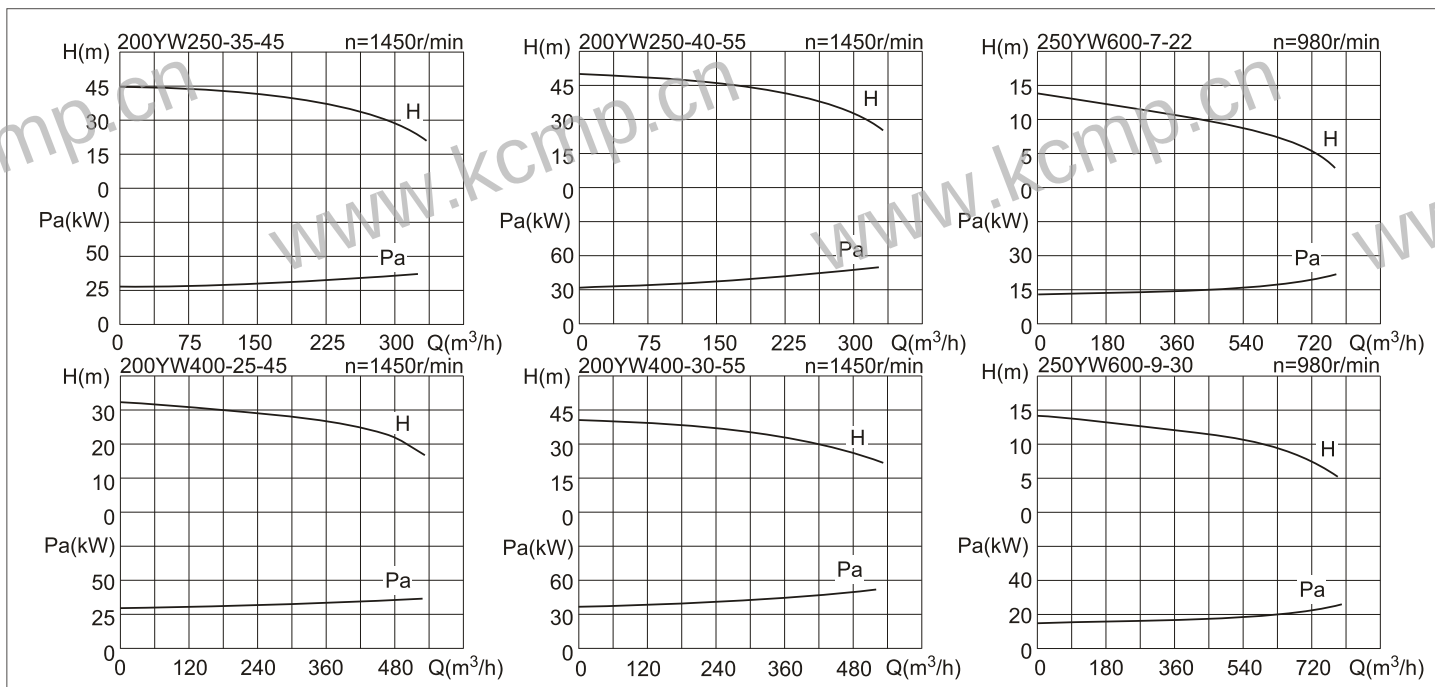
性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency % 效率	Power kW 电机功率	rpm 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
200YW310-13-22	217 310 372	16 13 11	64 71 67	22	1450	865	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	450
200YW400-10-22	280 400 480	12.6 10 8	68 75 69	22	1450	865	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	450
200YW250-22-30	175 250 300	24.8 22 19.5	62 71 72	30	1450	925	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	720
200YW360-15-30	250 360 432	17.5 15 12.6	65 78 75	30	1450	925	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	650
200YW400-13-30	280 400 480	16 13 11	69 76 72	30	1450	925	200	220	1000	620	690	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	650
200YW350-25-37	245 350 420	27.8 25 22.7	63 73 76	37	1450	990	200	260	1110	640	710	260	$\phi 200$	$\phi 280$	$\phi 320$	8- $\phi 18$	850

安装尺寸图 Installation Dimensions Drawing



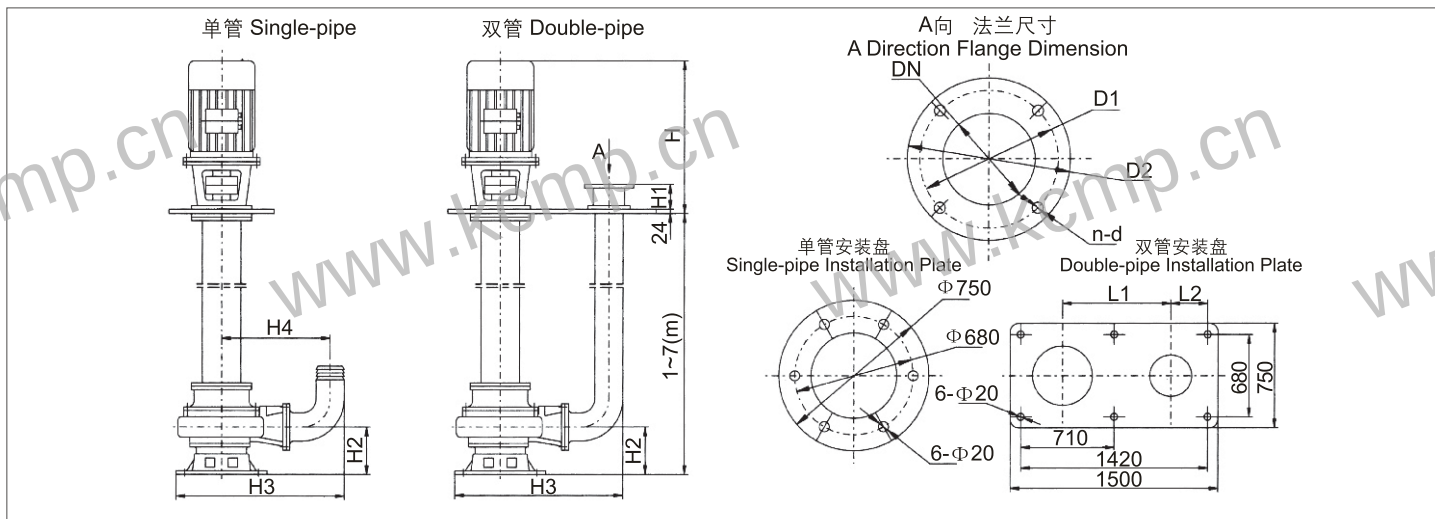
▶ 性能曲线图 Performance Curve



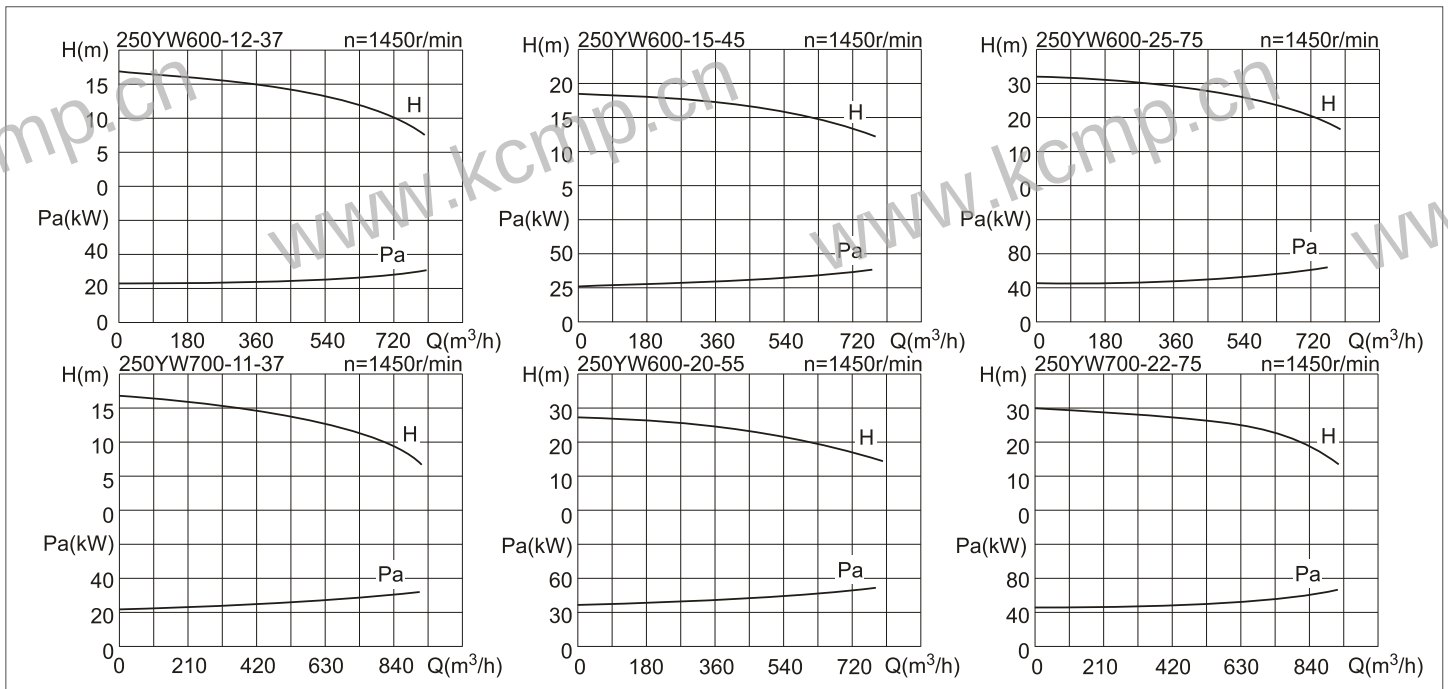
▶ 性能参数及安装尺寸表 Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency % 效率	Power kW 电机功率	rpm speed 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
200YW250-35-45	175	41	59	45	1450	1015	200	260	1110	640	710	260	Φ200	Φ280	Φ320	8-Φ18	950
	250	35	69														
	300	29.5	69														
200YW400-25-45	280	28	67	45	1450	1015	200	260	1110	640	710	260	Φ200	Φ280	Φ320	8-Φ18	950
	400	25	77.5														
	480	22	75														
200YW250-40-55	175	44.5	58	55	1450	1165	200	260	1115	640	710	260	Φ200	Φ280	Φ320	8-Φ18	950
	250	40	71														
	300	35.7	70														
200YW400-30-55	280	35	59	55	1450	1165	200	260	1115	640	710	260	Φ200	Φ280	Φ320	8-Φ18	1300
	400	30	72														
	480	27	75														
200YW600-7-22	420	9	68	22	980	925	200	310	1105	830	830	300	Φ250	Φ335	Φ375	12-Φ18	850
	600	7	72														
	720	5.5	68														
200YW600-9-30	420	10.5	70	30	980	1015	200	310	1105	830	830	300	Φ250	Φ335	Φ375	12-Φ18	850
	600	9	78														
	720	7	75														

▶ 安装尺寸图 Installation Dimensions Drawing



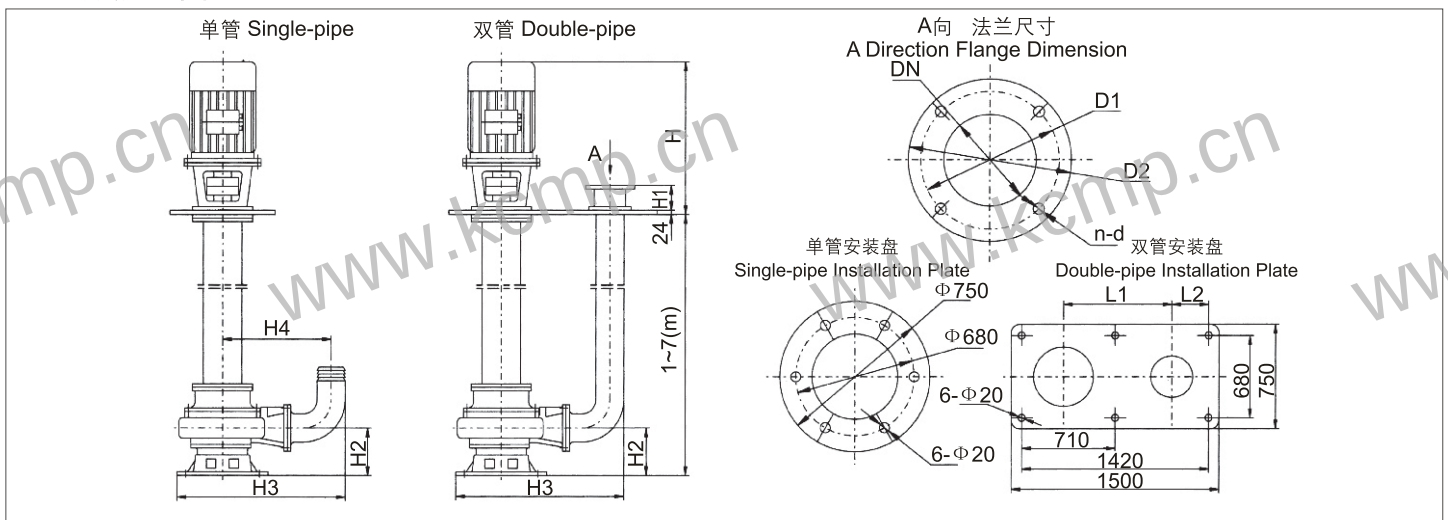
▶ **性能曲线图** Performance Curve



▶ **性能参数及安装尺寸表** Performance Parameters and Installation Dimensions

Type 泵型号	Q Capacity 流量	Head (m) 扬程	Efficiency 效率	Power kW 电机功率	n/min 转速	H	H1	H2	H3	H4	L1	L2	DN	D1	D2	n-d	Weight kg 泵重量
250YW600-12-37	420 600 720	14 12 10	66 76 71	37	1450	990	200	310	1105	830	830	300	φ 250	φ 335	φ 375	12-φ 18	850
250YW700-11-37	490 700 840	13 11 9	72 83 81	37	1450	990	200	310	1105	830	830	300	φ 250	φ 335	φ 375	12-φ 18	850
250YW600-15-45	420 600 720	17.5 15 13	64 73 67	45	1450	1015	200	310	1105	830	830	300	φ 250	φ 335	φ 375	12-φ 18	950
250YW600-20-55	420 600 720	22.5 20 17	64 73 67	55	1450	1165	200	320	1150	865	865	300	φ 250	φ 335	φ 375	12-φ 18	1300
250YW600-25-75	420 600 720	27.5 25 21	63 71 67	75	1450	1250	200	310	1190	940	940	300	φ 250	φ 335	φ 375	12-φ 18	1550
250YW700-22-75	490 700 840	25 22 19	69 81 79	75	1450	1250	200	310	1190	940	940	300	φ 250	φ 335	φ 375	12-φ 18	1550

▶ **安装尺寸图** Installation Dimensions Drawing





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