

用心服务 · 品质卓越



RY型热油泵 RY HOT OIL PUMPS

产品说明书 Product specification

RY型热油泵

RY hot Oil Pumps

型号意义 Designation



RY 100 - 65 - 200

叶轮名义直径 (mm)
Nominal diameter of impeller (mm)

排出口直径 (mm)
Outlet diameter (mm)

吸入口直径 (mm)
Inlet diameter (mm)

本单位热油泵代号
(无水冷却热油泵)
Our hot oil pump code
(non-aqueous cooling hot oil pump)

用途 Applications

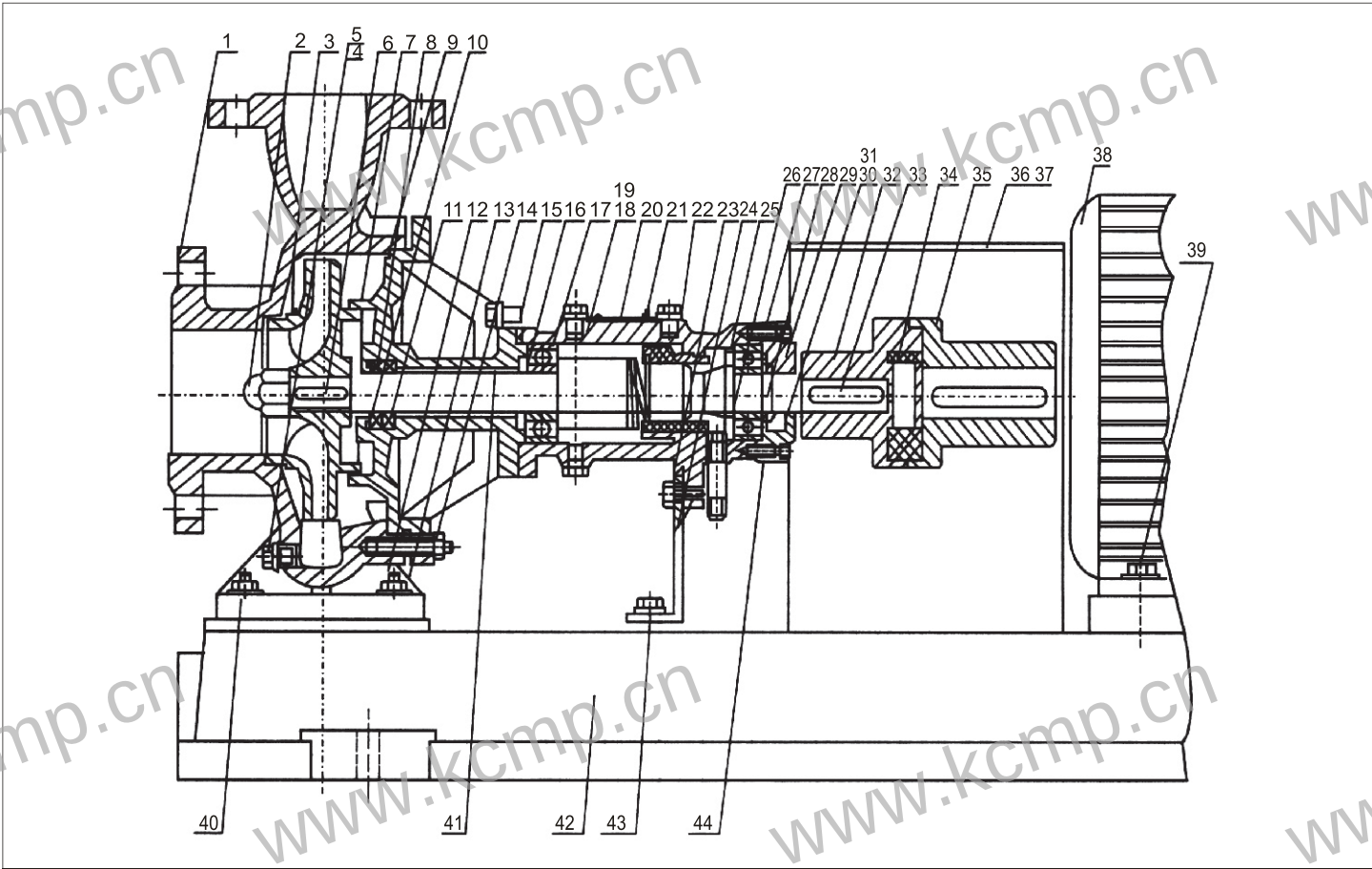
- RY型热油泵在我国载热体加热系统中得到了广泛的使用, 已经进入石油、化工、橡胶、塑料、制药、纺织、印染、筑路、食品等各个工业领域, 主要用于输送不含固体颗粒的弱腐蚀性高温液体, 使用温度 $<370^{\circ}\text{C}$, 是一种理想的热油循环泵。
- RY type hot Oil Pumps is widely applied in the heating system with heat transfer media in China for such industrial fields as petroleum, chemical industry, rubber, plastics, pharmacy, textiles, printing and dyeing, road construction and food. It is an ideal circulating pump for hot oil and mainly used for transferring weak-corrosion and high-temperature liquid without containing solid grains, whose working temperature is $\leq 370^{\circ}\text{C}$.

结构特点 Structural Features

- RY型热油泵是本单位消化吸收国外油泵的基础上研制的第二代产品, 基本结构形式为单级单吸悬臂式脚支撑结构, 泵的进口为轴向吸入, 出口为中心垂直向上, 和电机同装于底座上。
- RY型热油泵的支撑采用了双端球轴承支撑的结构形式, 前端采用润滑油润滑、后端采用润滑脂润滑, 中间有一导油管, 用以随时观察密封情况和回收导热油。
- 采用自热散热结构, 改变了传统的水冷却结构, 使结构简单, 体积小, 节约运行费用, 性能好, 使用可靠。
- RY型热油泵: (1) 采用填料密封和机械密封相结合的形式, 填料密封用耐高温的填料, 具有良好的热态适应性, 而机械密封则采用机械强度高、耐磨性好的硬质合金材料, 保证了高温情况下的密封性能。(2) 采用第三代聚四氟乙烯 (简称PTFE) 做唇形密封, 使密封性能产生了飞跃, 比橡胶类密封可靠性提高25倍, 耐腐蚀性能极强。
- RY type hot Oil Pumps is the second generation of our product developed on the basis of digesting foreign oil pumps. Its basic structure is single-stage single-suction cantilever leg support, which has an axial suction inlet and a centrally vertical outlet. It is mounted on the base along with the engine.
- RY type hot Oil Pumps adopts a double-end ball bearing support with the front end using the lubricating oil while the back end using the grease as the lubricant, and an oil conduit lying in between for always keeping an eye on the sealing and the recovery of conduction oil.
- It adopts the self-heating and abstraction of heat structure instead of the traditional water cooling structure, thus featured by a simple and space-effective, fewer operating costs, good performance and reliable operation.
- RY type hot Oil Pumps: (1) combines the packing seal and the mechanical seal; the former has a good adaptability for the thermal state due to using packing with resistance to high temperature while the latter ensures the seal performance under high temperature as it adopts the hard alloy with strong mechanical strength and wear resistance; (2) adopts the third generation of PTFE for the lip seal, thus getting great performance in the seal performance, 25 times the reliability of the rubber seal, and extremely strong resistance to corrosion.

RY型泵结构图 Structural Drawing of RY Pumps

结构图 Structural Drawing

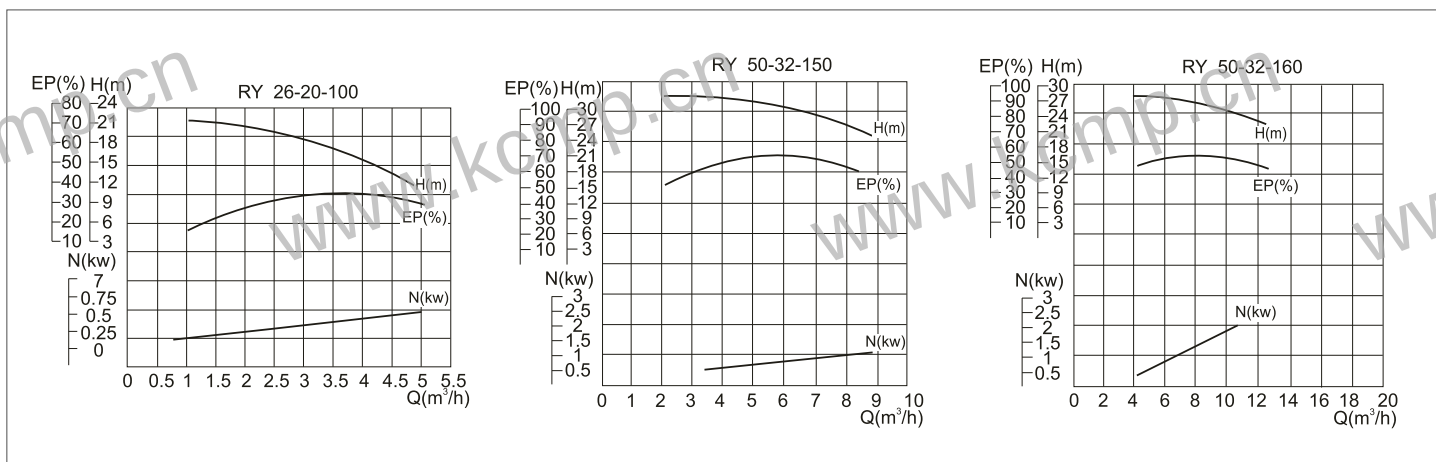


序号 No.	名 称 Name	序号 No.	名 称 Name	序号 No.	名 称 Name	序号 No.	名 称 Name	序号 No.	名 称 Name
1	泵 体 Body	2	盖形螺母 Acorn nut	3	叶 轮 Impeller	4	螺 塞 Plug screw	5	铝 热 圈 Aluminum gasket
6	平 键 Flat key	7	泵 盖 Pump cover	8	孔用弹性挡圈 Elastic collar for hole	9	铝 垫 圈 Aluminum gasket	10	压 圈 Clamping ring
11	垫 料 Packing	12	螺 母 Nut	13	垫 圈 Gasket	14	螺 栓 Bolt	15	螺 栓 Bolt
16	泵 轴 Pump shaft	17	球 轴 承 Ball bearing	18	轴 承 座 Bearing bracket	19	垫 片 Gasket	20	铝 牌 Aluminum plate
21	铆 钉 Rivet	22	机械密封 Mechanical seal	23	螺 栓 Bolt	24	撑 脚 Arm brace	25	垫 圈 Gasket
26	导油管 Oil conduit	27	螺 钉 Bolt	28	垫 圈 Gasket	29	橡胶密封 Rubber seal	30	轴 承 盖 Bearing cap
31	垫 片 Gasket	32	泵联轴器 Pump coupling	33	平 键 Flat key	34	弹 性 块 Elastic model	35	电机联轴器 Motor coupling
36	罩 壳 Casing	37	螺 钉 Bolt	38	电 动 机 Electromotor	39	螺 栓 Bolt	40	螺 柱 Stud
41	垫 圈 Gasket	42	底 座 Base	43	垫 圈 Gasket	44	弹性挡圈 Elastic collar		

RY型泵曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters and Installation Dimensions Drawing, Table of RY Pumps

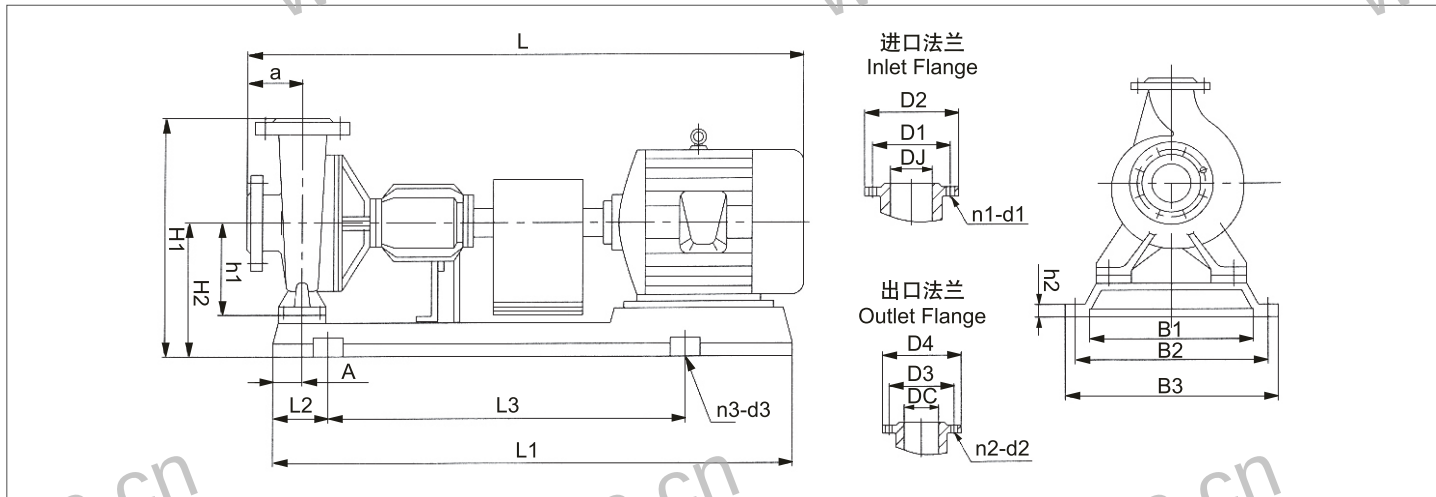
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power (kw)	效率 Efficiency %	气蚀余量 NPSH m
RY	Motor	(m³/h)	H (m)	r/min	轴功率 Shaft power 配用功率 Equipped power	η	m
26-20-100	Y801-2	4.5	15	2825	0.45 0.75	40	0.8
50-32-150	Y90S-2	8	22	2840	1.0 1.5	42	1.6
50-32-160	Y90L-2	10	25	2840	1.5 2.2	42	1.8

安装尺寸图 Installation Dimensions Drawing



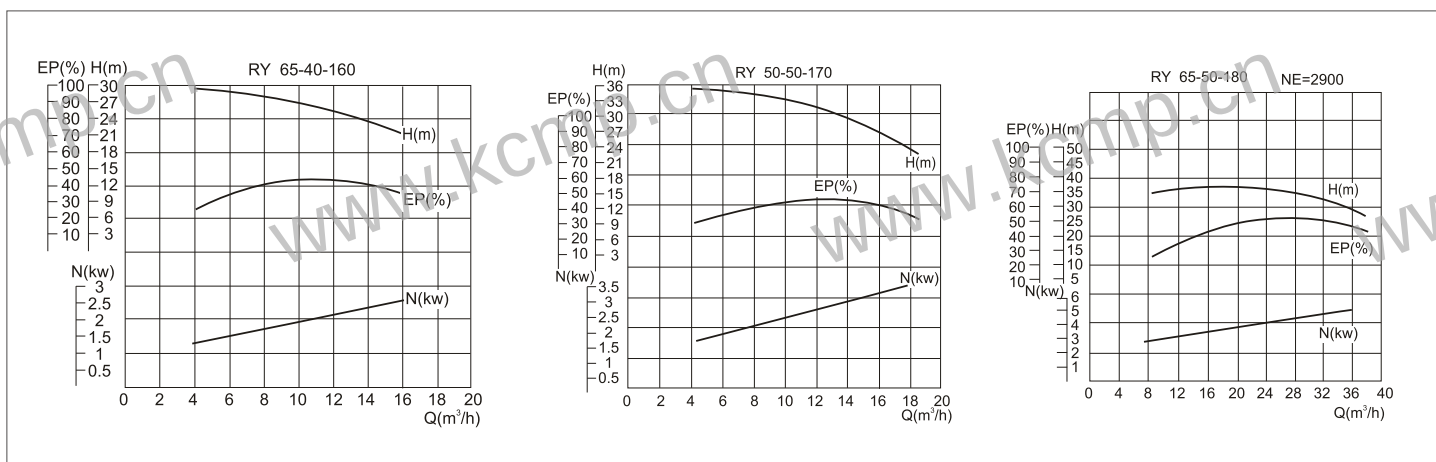
安装尺寸表 Installation Dimensions

型号 Type	外形及安装尺寸(mm) Outline and Installation Dimensions														进口法兰尺寸(mm) Inlet Flange Dimensions				出口法兰尺寸(mm) Outlet Flange Dimensions				
	R _Y	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
26-20-100		700	630	108	415	200	230	270	75	80	95	25	290	180	4-14	120	85	26	4-14	100	75	20	4-14
50-32-150		800	700	80	525	180	248	295	80	90	132	40	365	210	4-16	165	125	50	6-17.5	140	100	32	4-17.5
50-32-160		800	700	80	525	180	248	295	80	90	132	40	365	210	4-16	165	125	50	6-17.5	140	100	32	4-17.5

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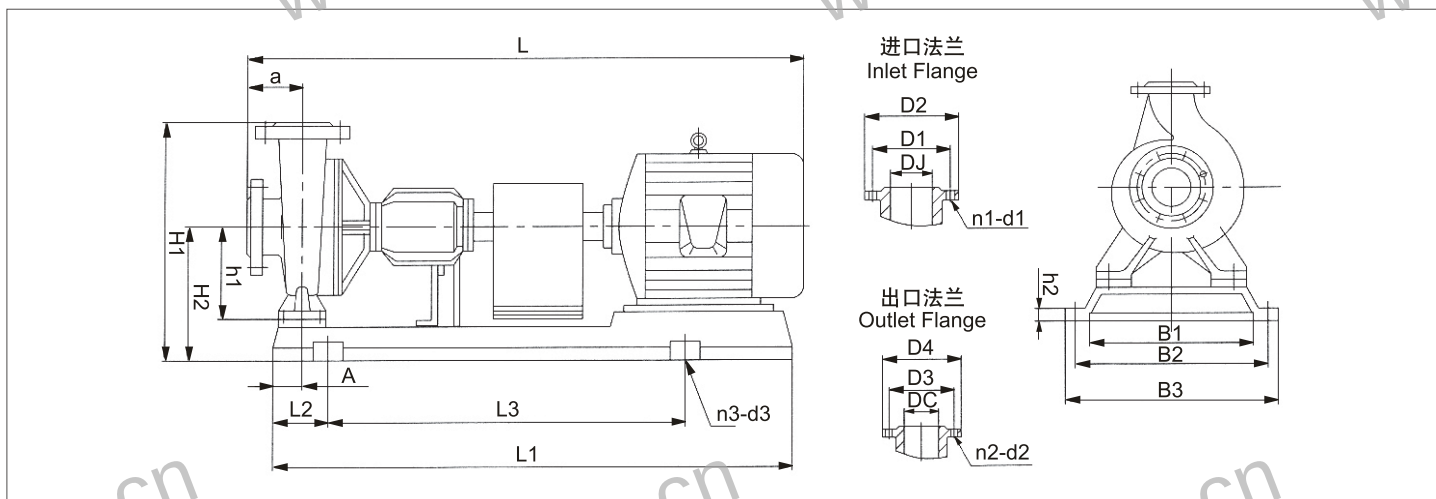
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power (kw) 轴功率 Shaft power 配用功率 Equipped power	效率 Efficiency %	气蚀余量 NPSH m
RY	Motor	(m³/h)	H (m)	r/min		η	m
65-40-160	Y100L-2	12.5	25	2880	2.5 3	45	2.2
50-50-170	Y112M-2	12.5	32	2890	3.2 4	45	2.5
65-50-180	Y132S1-2	32	32	2900	4.5 5.5	52	2.7
65-50-170		40	25	2900	4.5 5.5	52	2.7

安装尺寸图 Installation Dimensions Drawing



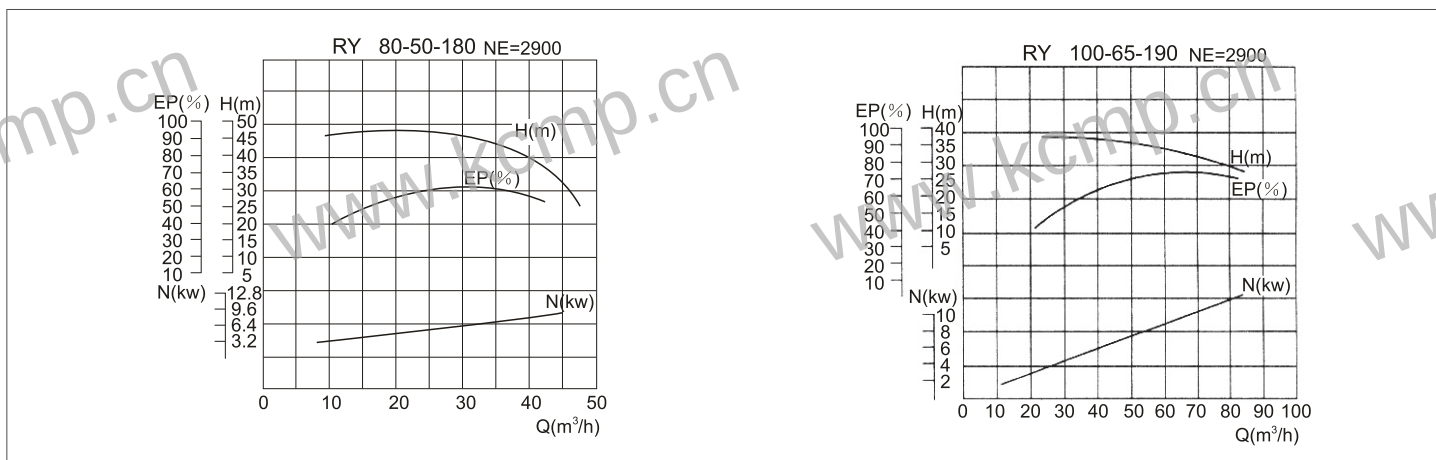
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	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
RY																						
65-40-160	1000	810	110	590	280	360	410	80	100	150	40	420	240	4-20	200	160	65	8-17.5	150	110	40	4-17.5
50-50-170	1000	845	122	600	355	360	410	80	100	152	40	442	247	4-20	185	145	50	8-17.5	165	125	50	6-17.5
65-50-170/180	1100	900	120	660	300	380	440	80	100	160	40	410	245	4-20	200	160	65	8-17.5	165	125	50	6-17.5

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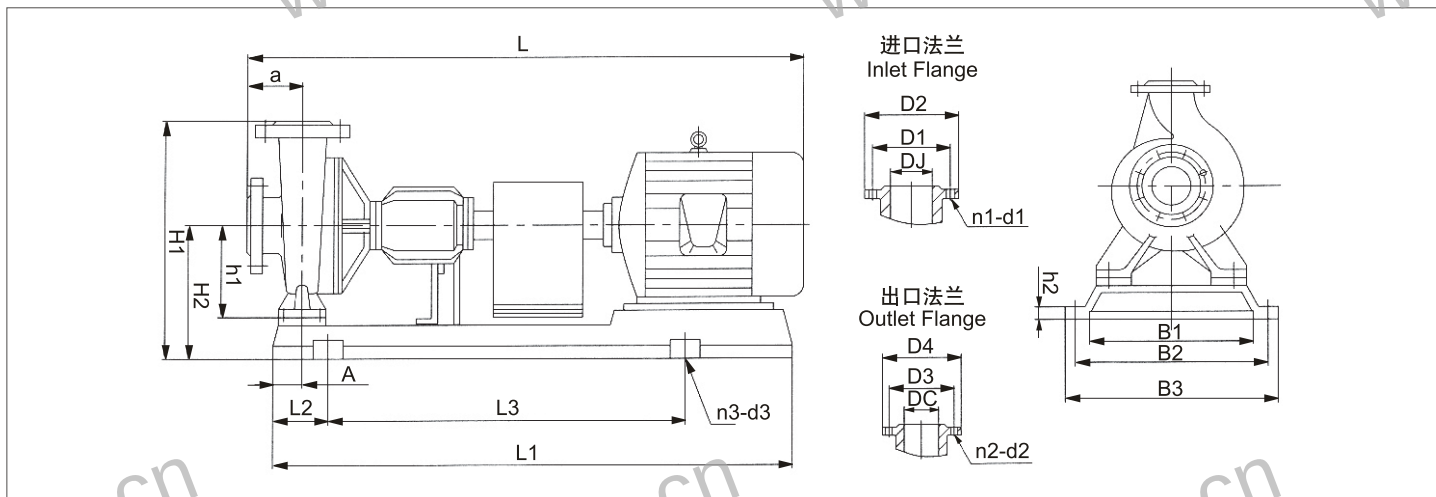
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m ³ /h)	扬程 Head H (m)	转速 speed r/min	Power (kw)	效率 Efficiency %	气蚀余量 NPSH m
RY	Motor	(m ³ /h)	H (m)	r/min	轴功率 Shaft power 配用功率 Equipped power	η	m
80-50-180	Y132S2-2	40	40	2900	6.7 7.5	63	3.1
80-50-170	Y132S2-2	60	20	2900	6.7 7.5	63	3.1
100-65-190	Y160M1-2	60	38	2930	9.2 11	68	3.9

安装尺寸图 Installation Dimensions Drawing



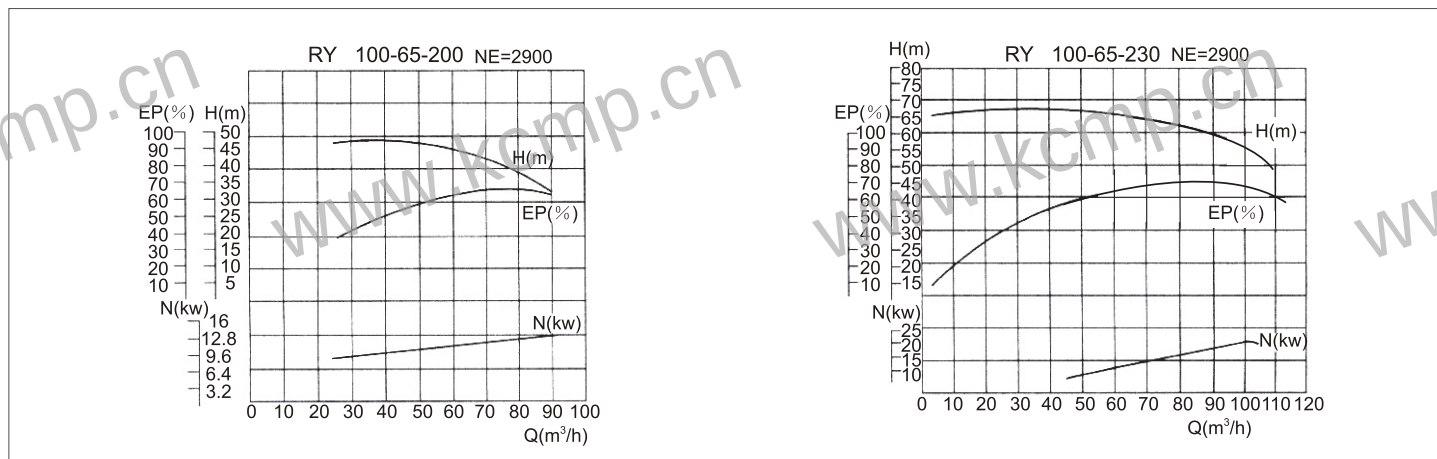
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型号 Type	外形及安装尺寸(mm) Outline and Installation Dimensions														进口法兰尺寸(mm) Inlet Flange Dimensions				出口法兰尺寸(mm) Outlet Flange Dimensions			
	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
RY																						
80-50-170/180	1100	900	120	600	300	380	440	80	100	160	40	410	245	4-20	200	160	80	8-17.5	165	125	50	6-17.5
100-65-190	1200	1049	120	730	355	440	510	110	120	180	40	510	285	4-22	220	180	100	8-20	185	145	65	8-17.5
100-65-220	1200	1049	120	730	355	440	510	110	120	180	40	510	285	4-22	220	180	100	8-20	185	145	65	8-17.5

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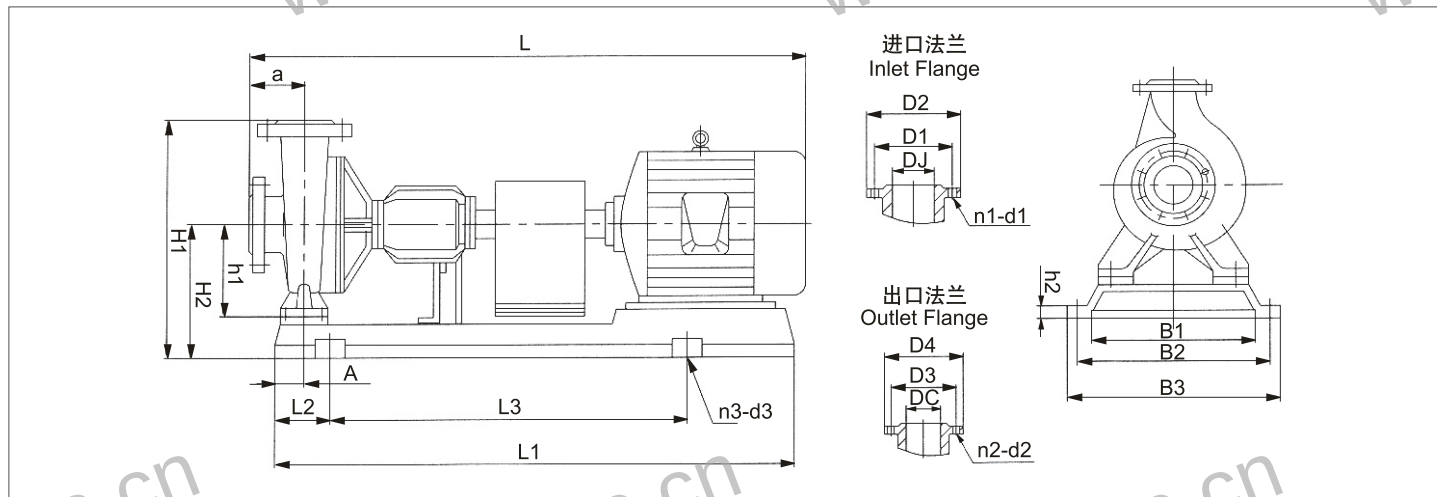
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power 轴功率 Shaft power 配用功率 Equipped power (kw)	效率 Efficiency η %	气蚀余量 NPSH
RY	Motor	(m³/h)	H (m)	r/min			m
100-65-200	Y160M1-2	80	40	2930	12.5 15	70	3.5
100-65-220	Y160M1-2	58	50	2930	12.5 15	68	3.5
100-65-230	Y180M1-2	100	55	2940	19.5 22	70	3.6

安装尺寸图 Installation Dimensions Drawing



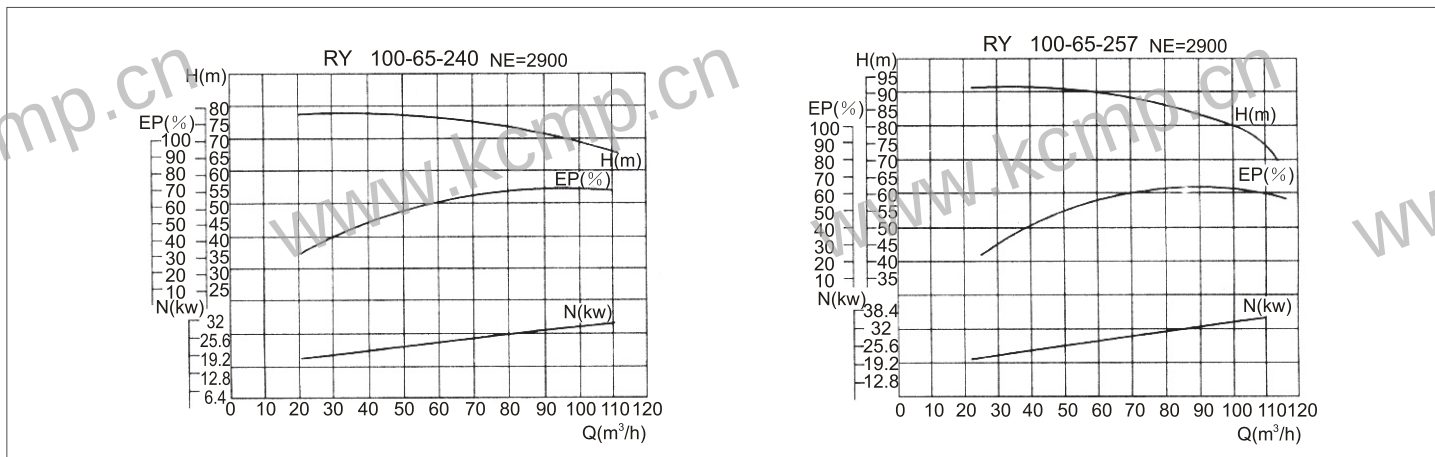
安装尺寸表 Installation Dimensions

型号 Type	外形及安装尺寸(mm) Outline and Installation Dimensions														进口法兰尺寸(mm) Inlet Flange Dimensions				出口法兰尺寸(mm) Outlet Flange Dimensions			
	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
RY																						
100-65-200	1200	1049	120	730	355	440	510	110	120	180	40	510	285	4-22	220	180	100	8-20	185	145	65	8-17.5
100-65-230	1300	1180	145	930	415	495	570	115	125	200	40	570	320	4-22	220	180	100	8-20	185	145	65	8-17.5

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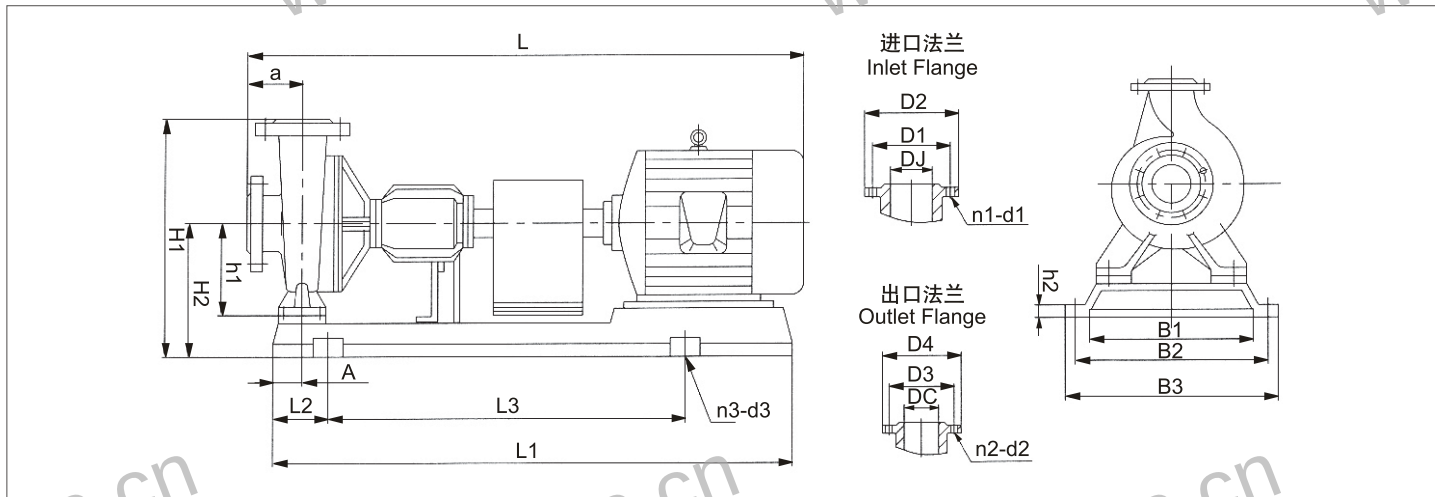
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型 号 Type	电 机	流量Q Capacity	扬程 Head	转速 speed	Power (kw)		效率 Efficiency	气蚀余量 NPSH
RY	Motor	(m ³ /h)	H (m)	r/min	轴功率 Shaft power	配用功率 Equipped power	η	m
125-100-190	Y180M-2	155	30	2940	20	22	72	3.6
100-65-240	Y200L1-2	100	70	2950	25.5	30	69.8	4.1
100-65-257	Y200L2-2	100	80	2950	32.5	37	67	3.6

安装尺寸图 Installation Dimensions Drawing



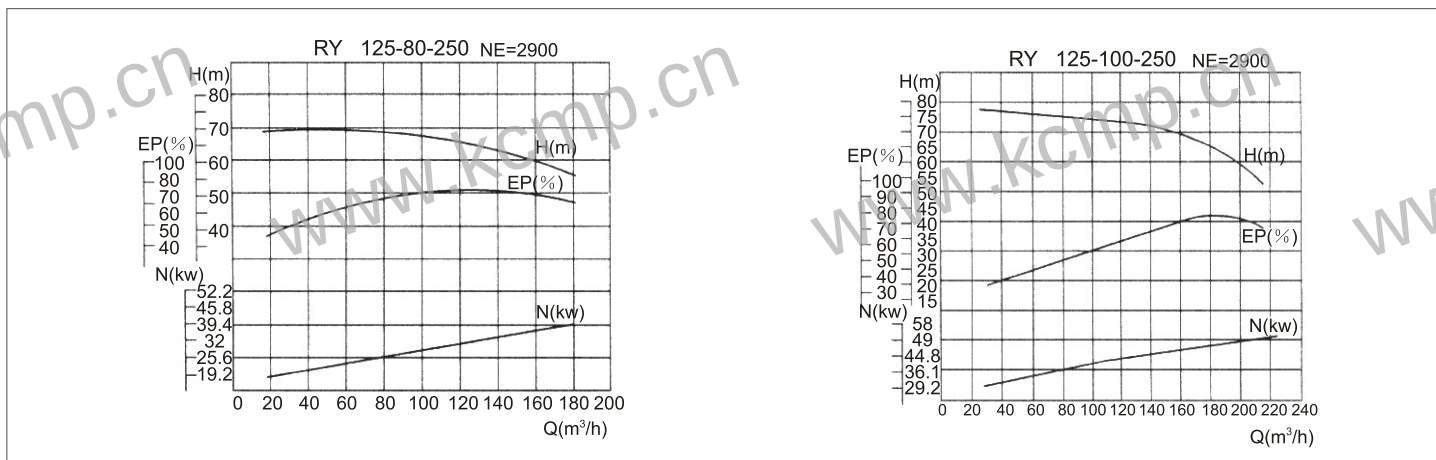
安装尺寸表 Installation Dimensions

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	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
RY																						
100-65-240	1400	1180	145	930	415	495	570	115	125	200	40	570	320	4-22	220	180	100	8-20	185	145	65	8-17.5
125-100-190	1300	1180	145	930	415	495	570	115	125	200	40	570	320	4-22	250	220	125	8-20	220	180	100	8-17.5
100-65-257	1400	1180	145	930	415	495	570	115	125	200	40	570	320	4-22	220	180	100	8-20	185	145	65	8-17.5

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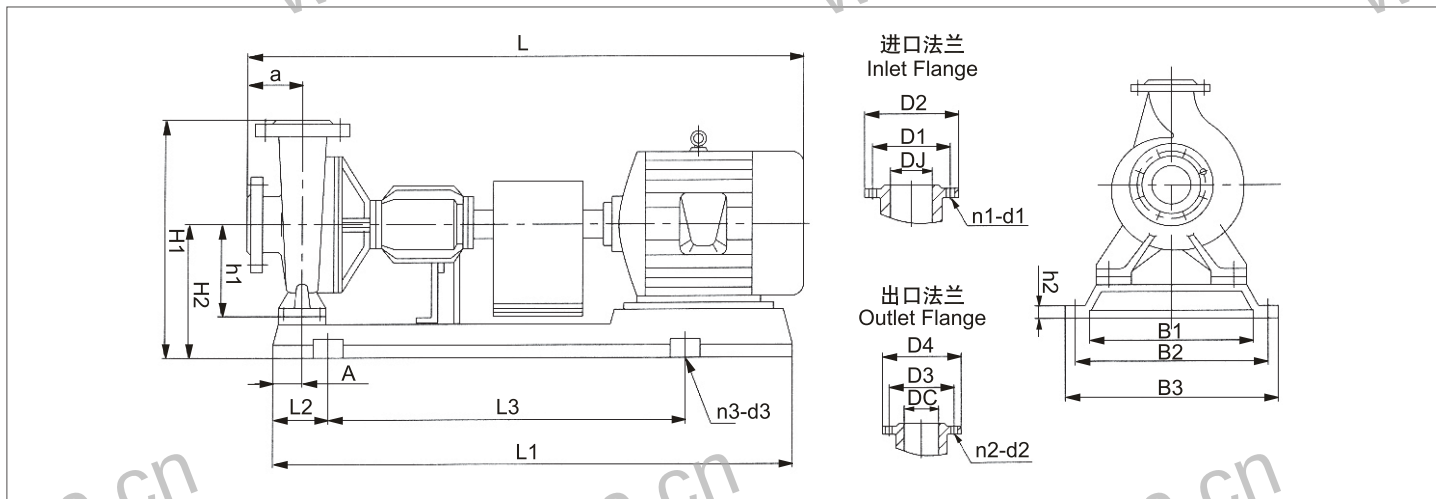
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power (kw) 轴功率 Shaft power 配用功率 Equipped power	效率 Efficiency η %	气蚀余量 NPSH m
RY							
125-100-220	Y200L2-2	160	45	2950	25.5 37	75.2	3.6
125-80-250	Y225M-2	160	60	2970	35.5 45	74.2	5
125-100-250	Y250M-2	200	60	2970	42.8 55	76.8	6

安装尺寸图 Installation Dimensions Drawing



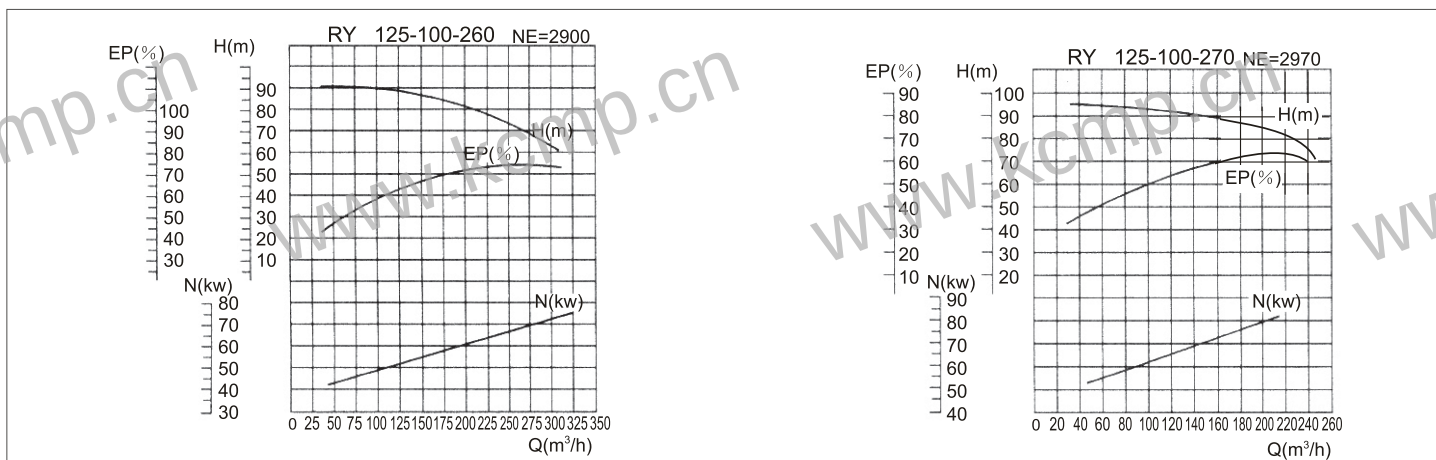
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RY																						
125-100-220	1400	1180	145	930	415	495	570	115	125	200	40	570	320	4-22	250	220	125	8-22	220	180	100	8-22
125-80-250	1513	1245	152	930	480	540	620	140	144	225	45	620	345	4-24	250	220	125	8-22	220	160	80	8-22
125-100-250	1580	1400	230	930	550	600	690	140	144	225	45	654	370	4-24	250	220	125	8-22	200	180	100	8-22

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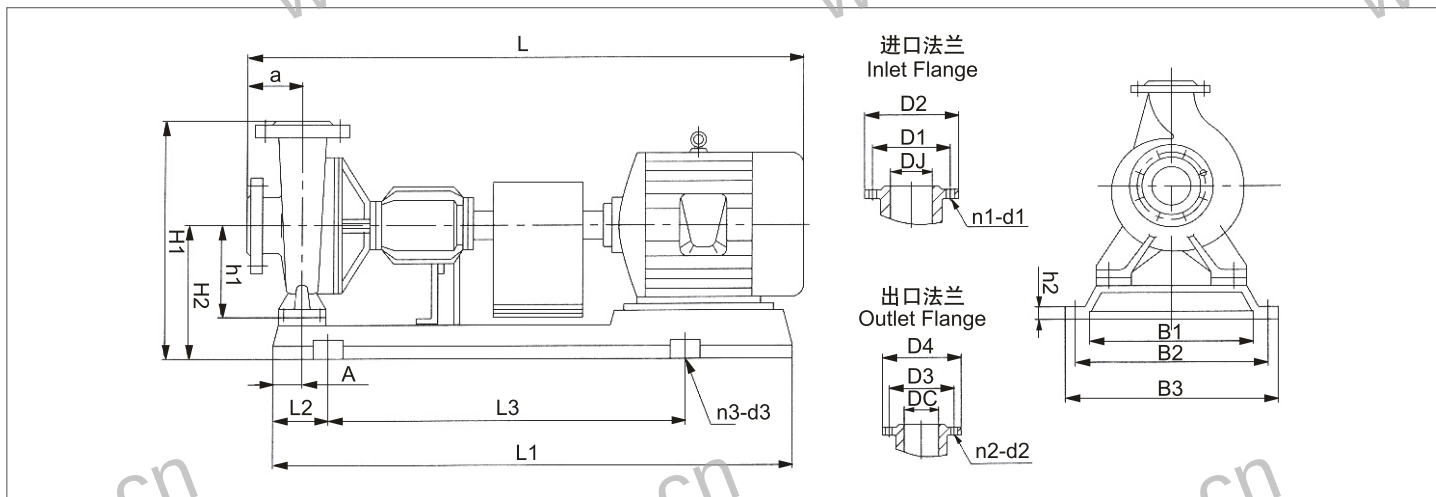
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power (kw) 轴功率 Shaft power 配用功率 Equipped power	效率 Efficiency η %	气蚀余量 NPSH m
RY	Motor	(m³/h)	H (m)	r/min			
125-100-257	Y280S-2	260	70	2970	64.3 75	77.1	6.8
125-100-260	Y280S1-2	300	70	2970	75.3 90	78.2	8
125-100-270	Y280S1-2	220	85	2970	68 90	76	6

安装尺寸图 Installation Dimensions Drawing



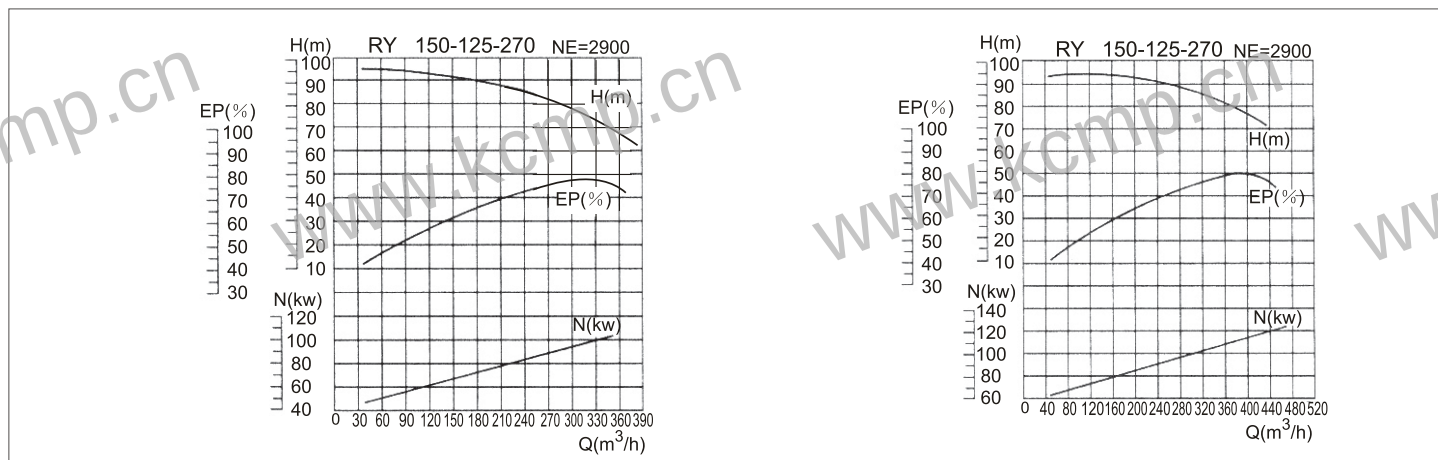
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RY																						
125-100-257	1628	1510	275	960	540	620	695	150	144	230	50	725	438	4-24	250	220	125	8-22	220	180	100	8-22
125-100-270	1628	1510	275	960	540	620	695	150	144	230	50	725	438	4-24	250	220	125	8-22	220	180	100	8-22
125-100-270	1628	1510	275	990	540	620	695	150	144	230	50	725	438	4-24	250	220	125	8-22	220	180	100	8-22

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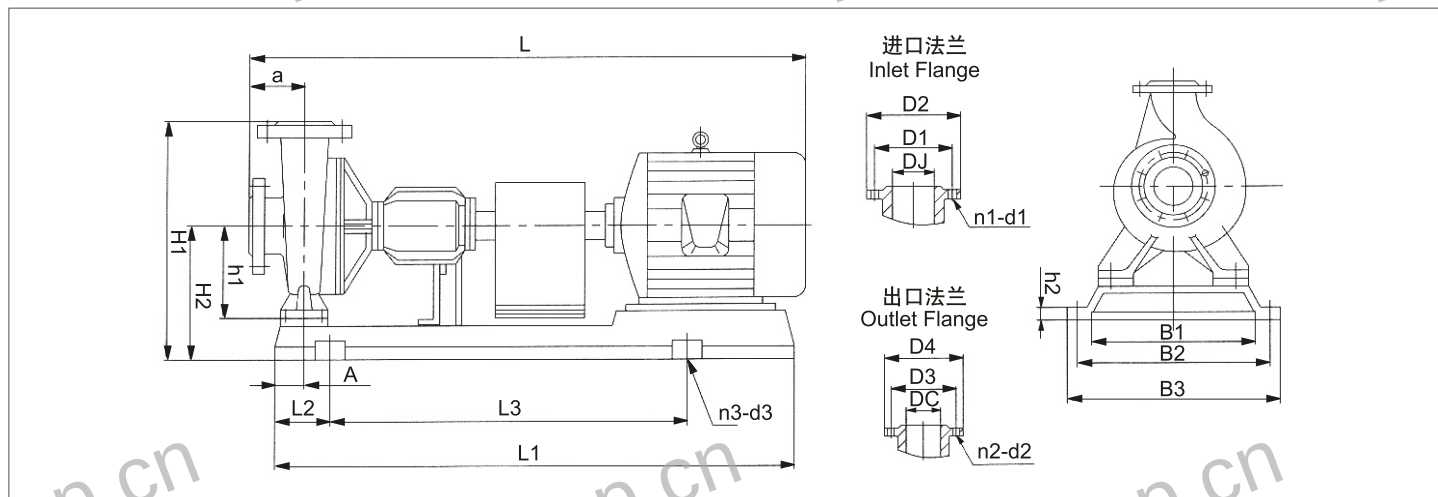
性能曲线图 Performance Curve



性能参数表 Performance Parameters

型号 Type RY	电机 Motor	流量Q Capacity (m³/h)	扬程 Head H (m)	转速 speed r/min	Power (kw) 轴功率 Shaft power 配用功率 Equipped power	效率 Efficiency η %	气蚀余量 NPSH m
150-125-270	Y315-2	340	76	2970	89.5 110	78.6	8.5
150-125-270	Y315M1-2	400	78	2970	106 132	80.6	9.8

安装尺寸图 Installation Dimensions Drawing



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	L	L1	L2	L3	B1	B2	B3	A	a	h1	h2	H1	H2	n3/d3	D2	D1	DJ	n1/d1	D4	D3	DC	n2/d2
150-125-270	1818	1590	250	1090	628	720	780	145	150	230	45	750	440	4-24	285	240	150	8-22	250	220	125	8-22
150-125-270	1888	1590	250	1090	628	720	780	145	150	230	45	750	440	4-24	285	240	150	8-22	250	220	125	8-22



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