



真空获得设备

VACUUM OBTAINING EQUIPMENT



成都南光机器有限公司

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RANKUUM

成都南光机器有限公司

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真空获得设备

Vacuum Obtaining Equipment

成都南光机器有限公司从1958年开始生产真空获得设备，历经近70年的发展，公司目前已成为国内从事真空泵、真空阀门及管路元件等真空获得设备的研制和生产历史最长、品种最多、技术体系完备的厂家。产品畅销全国各地，并出口到美国、日本、波兰、澳大利亚、泰国、香港、台湾等数十个国家和地区。

Chengdu Nanguang Machinery Co., Ltd. has been producing vacuum acquisition equipment since 1958. After nearly 70 years of development, the company has become the manufacturer in China with the longest history, most varieties, and complete technical system in the research and production of vacuum acquisition equipment such as vacuum pumps, vacuum valves, and pipeline components. The product sells well throughout the country and is exported to dozens of countries and regions such as the United States, Japan, Poland, Australia, Thailand, Hong Kong, and Taiwan.

► Model FF Compound Molecular Pump +

FF型复合分子泵

南光机器 · 真空获得设备
[VACUUM OBTAINING EQUIPMENT]



FF-160/620型复合分子泵
Model FF-160/620 Compound Molecular Pump



FF-250/1600型复合分子泵
Model FF-250/1600 Compound Molecular Pump

产品特点 Product Features

- 高压强段保持较大、稳定的抽速
Keep steady high pumping speed under the high pressure
- 前级耐压能力强
Have the ability of high resist pressure for the backing
- 抗冲击能力强
Have the ability of high resist impact
- 易获得清洁的高真空或超高真空设计独特
Easy to acquire the purity high or ultra-high vacuum
- 设计独特的转子，安全性高
Special design on the rotor for high safety
- 特殊的冷却系统，散热性好
Special cooling system for good heat eliminate function
- 振动小、噪音低
Lower libration and noise
- 结构紧凑，安装、维护方便
Lower libration and noiseCompact structure design, easy to maintenance and integrate into complex systeme

产品用途 Product Applications

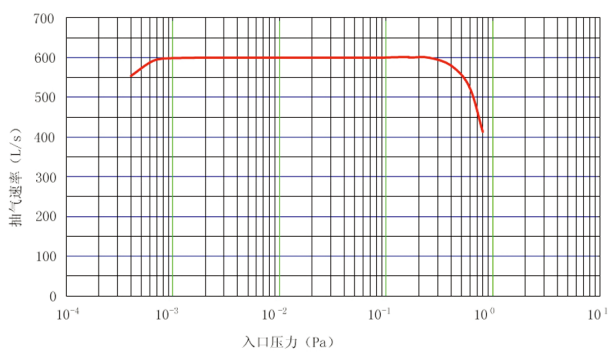
FF型复合分子泵用来获得高真空和超高真空，其广泛应用于高能加速器、可控热核反应装置、等离子体物理空间研究、表面物理和分析仪器、半导体和光学元器件制造、平板显示、太阳能电池、真空镀膜、真空冶炼等涉及真空技术的电子、冶金、化工、科研等众多领域。

FF Model Compound Molecular Pumps from Rankuum Machinery is used to acquire the purity high or ultra-high vacuum,and they are widely used in high-energy accelerator,controlled thermonuclear reactor, plasma physics space research,surface physicsand analytical instruments,semiconductor and optical commodities manufacture,panel display,solar battery,vacuum coating,vacuummelting and so on.

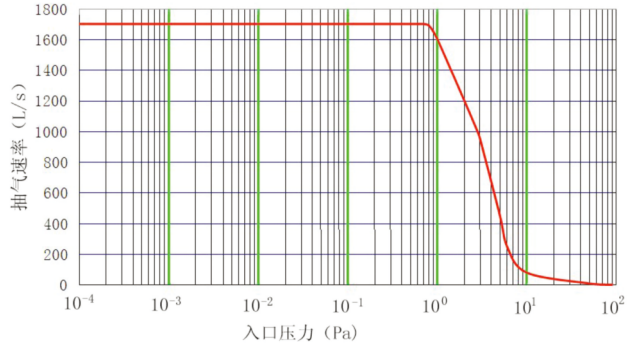
技术参数 Technical parameters

型号Model		FF-250/1600	FF-160/620
最低工作压力 Minimum operational pressure(Pa)		<1x10 ⁻⁶	<6x10 ⁻⁷
抽气速率(对空气) Pumping speed for air(L/s)		1700	600
压缩比 Compression ratio	对氮气 For N ₂	>10 ⁸	>10 ⁹
	对氢气 For H ₂	>5x10 ³	>6x10 ³
进气口法兰 inlet flange		DN250LF	DN160CF
排气口法兰 Outlet flangeh		DN50KF	DN40KF
启动时间 Sterting time (min)		≤8	≤5
额定转速 Rated rotational speed (r/min)		27000	27000
振动值 Libration value(μm)		≤0.1	≤0.1
注油量 Oiling capacity (ml)		210	210
推荐前级泵 Recommended forevac.um pump		15	4-8
轴承 Beaing		精密陶瓷球轴承 Precision ceramic balls bearing	精密陶瓷球轴承 Precision ceramic balls bearing
安装方式 operational crienialicn		竖直 Vertical (±5°)	竖直 Vertical (±5°)
冷却方式 Coaling method		水冷 Water cooling	水冷 Water cooling
冷却水温度 Cooling water temperature (°C)		≤25	≤25
冷却水压力 Cooling water pressure (Mpa)		0.196	0.196
泵体烘烤温度 Pump body baking temperature(°C)		≤100	≤100
环境温度 Envirarrnent temperature(°C)		5~40	5-40
重量 Weigt (Kg)		47	30

抽速曲线 Pumping speed Curve(SP)



FF-160/620型复合分子泵
Model FF-160/620 Compound Molecular Pump



FF-250/1600型复合分子泵
Model FF-250/1600 Compound Molecular Pump

► Model FF Compound Molecular Pump +

FF型复合分子泵

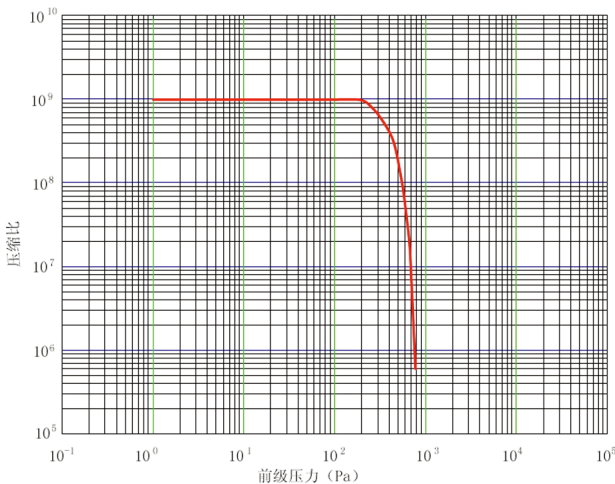
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+ Series F Vertical Turbomolecular Pumps ◀

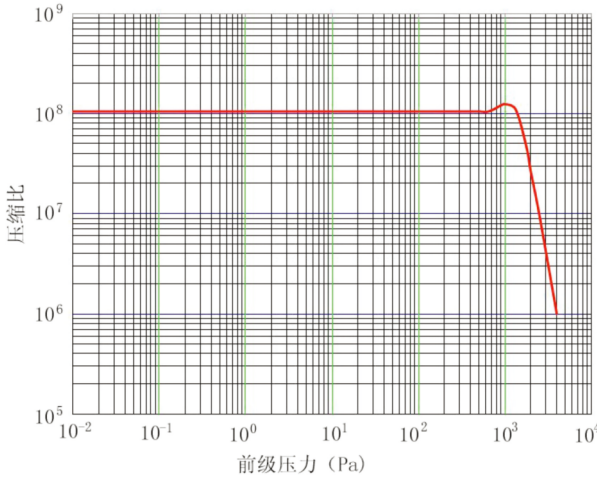
F型涡轮分子泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

压缩比曲线 | Compression Ratio Curve

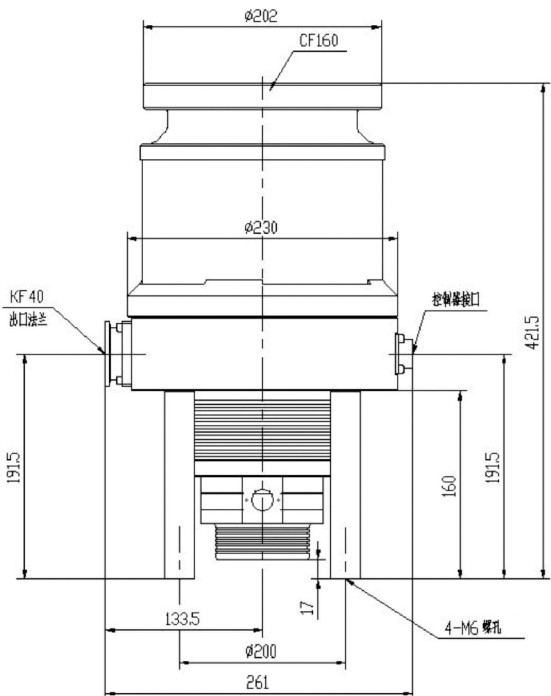


FF-160/620型复合分子泵
Model FF-160/620 Compound Molecular Pump

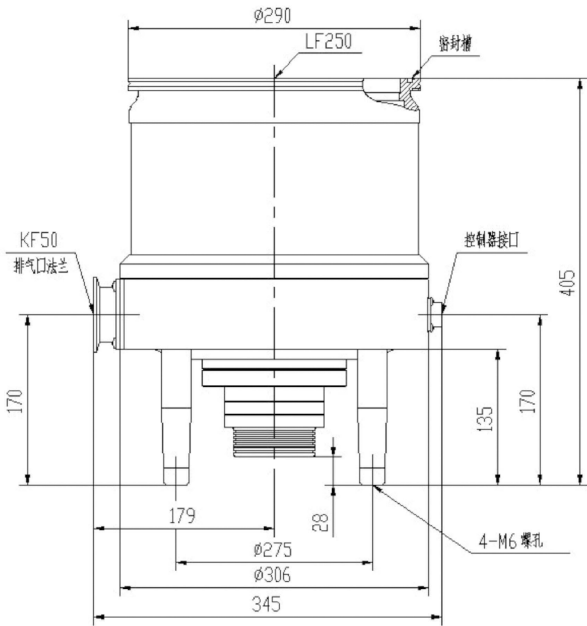


FF-250/1600型复合分子泵
Model FF-250/1600 Compound Molecular Pump

安装与连接尺寸 | Dimensions Of Installation And Connection



FF-160/620型复合分子泵
Model FF-160/620 Compound Molecular Pump



FF-250/1600型复合分子泵
Model FF-250/1600 Compound Molecular Pump



产品特点 | Product Features

- 体积小, 安装和使用方便
Compact, easy to install and use
- 理想的动平衡, 震动和噪音小
Low vibration and noise, perfect rotary balance
- 陶瓷轴承使用寿命长
Ceramic bearing with long service life
- 易获得清洁的高真空或超高真空
Easy to acquire the purity high or ultra-high vacuum

产品用途 | Product Applications

涡轮分子泵用于高真空和超高真空, 它不能直接对大气排气, 需要配置前级泵。
The turbomolecular pump is used for the application of high and ultra-high vacuum. It can not be used for direct deflation to atmosphere and needs to be equipped with backing pump

主要应用领域 | Main applications

- 表面物理和分析仪器
Surface physics and analytical instrument
- 等离子体物理, 空间研究
Plasma physics and space research
- 核聚变装置
Nuclear fusion utilities
- 原子束分子束系统, 粒子加速器
Atomic & molecular beam system, particle accelerator
- 真空镀膜
Vacuum coating
- 真空冶炼
Vacuum smelting
- 半导体和光学器件制造
Semiconductor and optical industry

技术参数 | Technical parameters

型号Model		FC-150/450	FG-150/450	FG-250/1400	FG-250/1400	F-400B/3500
进气口法兰	Inlet flange (mm)	DN160CF	DN160LF	DN250CF	DN250LF	DN400LF
出气口法兰	Outlet flange (mm)	DN40KF		DN63LF		DN100LF
抽气速度	Pumping speed (L/S)	450		1400		3500
极限压力	ultimate pressure	不烘烤 without baking(Pa)		6x10 ⁻⁶		6x10 ⁻⁶
压缩比	对N ₂	10 ⁸		10 ⁸		10 ⁸
	对H ₂	10 ²		10 ⁴		5 x 10 ²
转速RPM	(r/min)	24000		24000		14100
起动时间	Start-up time<(Min)	5		10		20
前级压力	Fore pressure<(Pa)	10		10		10
建议采用的前级泵	Recommended backing pump(L/s)	8		15		30
冷却水温度	Cooling water temperature <(°C)	≤25		≤25		≤25
冷却水压力	Cooling water pressure (Mpa)	0.196		0.196		0.196
泵体烘烤温度	Temperature of baking <(°C)	120		120		120
重量	Weight (kg)	35		70		125

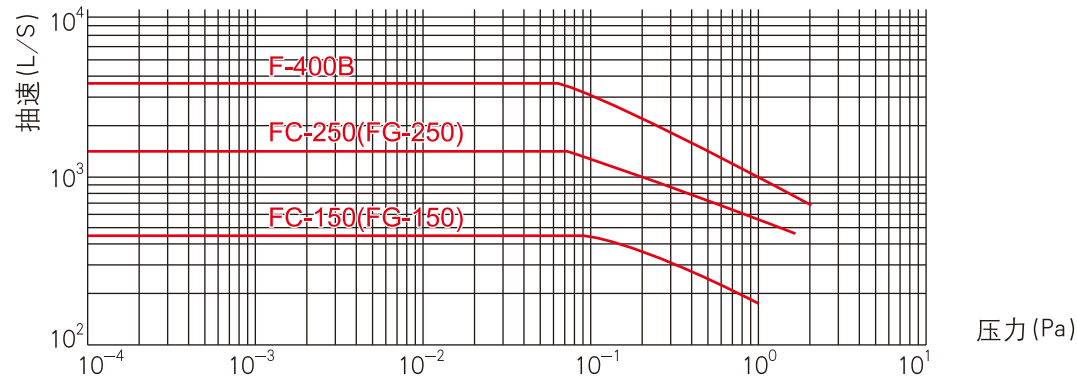
► Series F Vertical Turbomolecular Pumps +

F型涡轮分子泵

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抽速曲线 Pumping speed Curve(SP)



电 源 Power Supply

分子泵电源特点

- 操作简单
Easy To Operate
- 抗干扰能力强
High Anti-interference Ability
- 保护功能齐全
Complete Protection Function

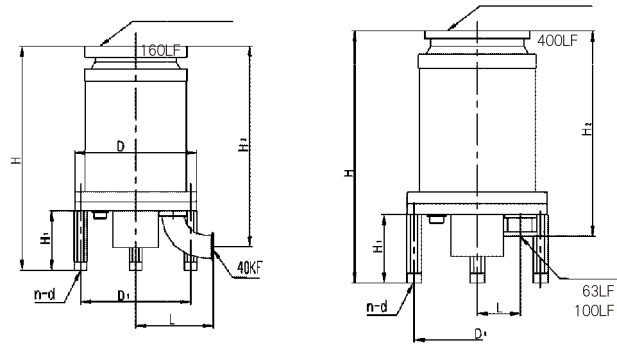
Turbo-molecular pump power features

- 故障跳闸储蓄并显示，便于检查故障
Storage and display of failuretrip for troubleshooting
- 可根据用户需要，设置不同的运行速度
Different Operation Speed Selectable
- 可与计算机联网
Can Work With Computer

分子泵电源技术参数 Turbo-molecular pump power parameters

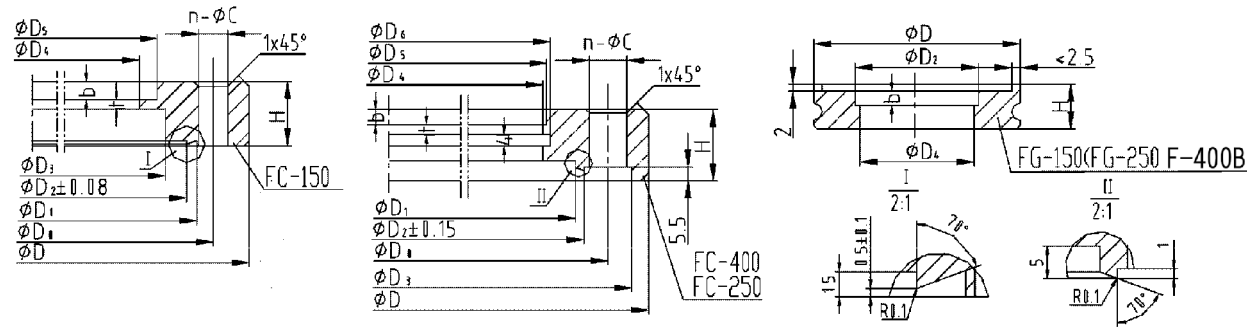
型号 Model		F-150/450BG	FF-160/600	F-250/1400BG	FF-250/1600	F-400B/3500
输出 Output	额定输出容量 Rated output capacity (KW)	1.5		1.5		2.2
	额定输出电压 Rated output voltage (V)	3x50		3x50		3x50
	额定输出频率 Rated output frequency (Hz)	400		400	450	235
	最大工作电流 Max.operation current (A)	< 4		< 5		< 8
	正常工作电流 Operating current (A)	< 1		< 1.5		< 2.5
输入 Input	额定输入电压 Rated input voltage (V)	220±10%				
	额定输入频率 Rated input frequency (Hz)	50/60±5%				
控制特性 Controlling features	控制方式 Controlling	正弦波PWM方式 sinusoidal wave PWM				
	过载能力 Overload capacity	输出最大启动电流的140%，一分钟 140% of output starting-up current(1 minute)				
	启动加速时间 Starting accelerating time (Min)	3		6		20
	停车减速时间 Shutdown decelerating time (Min)	5		10		60
	保护功能 Protection function	过电压、过电流、低电压、过负载、过热等 oervoltge,over current,low-voltage,overload and over-heating,etc.				
环境 Environment	冷却方式 Cooling	强制风冷 forced wind cooling				
	使用场所 Operation site	安装处所无腐蚀性气液体，无尘垢 No corrosive gas and liquid,No dust at the place where the pump is installed.				
	环境温度 Environment temperature	-10℃-50℃(超过40℃时须移至通风良好处) (moved to the place where ventilation is good when temperature is over 40°)				
	环境湿度 Humidity	90%RH以下(无凝露) Below 90%Rh (No condense)				
	振动 Vibration	20hz以下9.80665m/s2(1G20-50Hz5.88m/S29(0.6G)				
重量 Weight (Kg)		20		28		27

安装与连接尺寸 Dimensions Of Installation And Connection



型号 Model	H	H1	H2	D	D1	L	n—d
FC-150/450	440	117	393	240	217	153	4—M6
FG-150/450	435		388				
FC-250/1400	467	132	395	325	300	90	
FG-250/1400	457		385				
F-400B/3500	505	165	395	487	420	155	3—M12

与泵连接的法兰尺寸 Size of Flange connected With Pump Port



DN	D	D0	D1		D2		D3		D4	D5		D6	H	b	t	n—φc
			尺寸 Dimension	公差 Allowance	尺寸 Dimension	公差 Allowance	尺寸 Dimension	公差 Allowance		尺寸 Dimension	公差 Allowance					
FC-150/450	202	181	171.5	0-0.10	165.5	±0.08	154	—	150	153	+0.160	—	22	4	2	20- φ 8.4
FG-150/450	180	—	—	—	157	±0.1000	—	—	153	—	—	—	12	4	—	—
FC-250/1400	312	288	269	+0.0810	274	±0.15	302	+0.320	250	254	+0.320	256	26	6	2	24- φ 11
FG-250/1400	290	—	—	—	254	+0.130	—	—	250	—	—	—	12	5	—	—
F-400B/3500	450	—	—	—	405	+0.150	—	—	400	—	—	—	17	6	—	—

F型涡轮分子泵

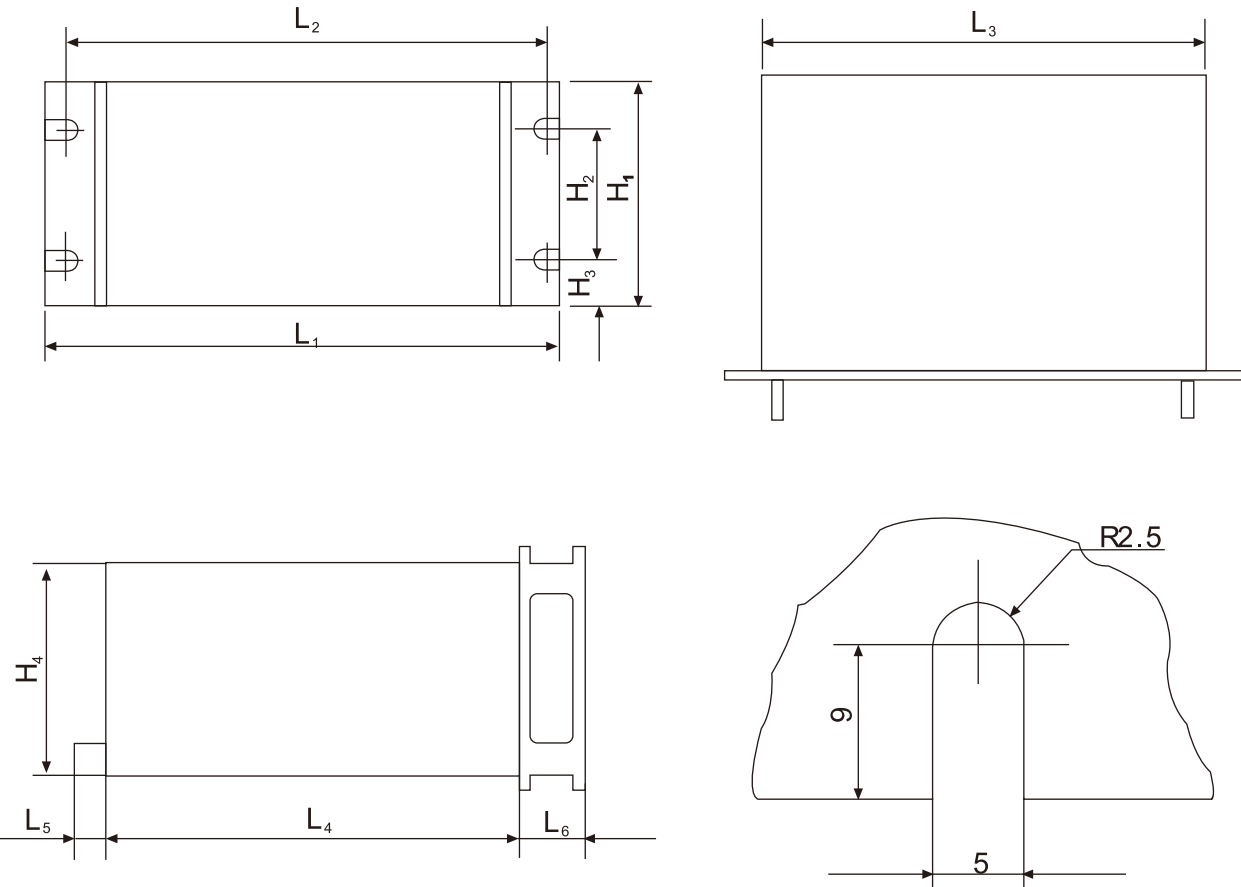
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分子泵电源外形尺寸 Turbo-molecular pump power dimensions

型号 Model	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	H ₁	H ₂	H ₃	H ₄
FF-160/600	483	465	440	360	*25(80)	40	177	101.6	37.7	164
FF-250/1600										
F-150/450BG	483	465	440	360	*25(80)	40	177	101.6	37.7	164
F-250/1400BG										
F-400B/3500				440			440	101.6		177

*80为输出插头尺寸,25为插座尺寸
*80 is the dimension of output plug,25 is the dimension of jack.

分子泵电源外形尺寸 Turbo-molecular pump power dimensions



2XZ型直联式旋片真空泵

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[VACUUM OBTAINING EQUIPMENT]

产品特点 Product Features

- 结构独特。采用一九九二年从瑞士Balzers公司引进的DUO016B技术生产
Unique Structure.Adopting production technology of Model DUO 016B licensed by Balzers Corp.Switzerland in 1992
- 体积小
Small Dimensions
- 噪声低
Low Noise
- 2XZ-4B、2XZ-2B两种型号泵电机和泵体同时浸在泵油中，2XZ-8D、2XZ-15D泵采用进口轴封彻底消除了泵油的泄漏
Immersing motor and pump body together in oil bath,Eliminating oil leak thoroughly
- 只要变换进气口的安装方式就可实现抽气管道的立式或卧式安装
The Location of the Discharge pipe can be changed from vertical to horizontal only by changing the installation mode of the inlet
- 装有安全阀，泵停转后能关闭，可防止泵油对真空系统的污染
Have assembled a safety valve, which will be closed up after the pump is turned off. The safe valve can prevent the pollution of the vacuum system
- 装有气镇阀，有助于提高泵排除水蒸汽的能力
Have assembled a gas ballast valve, which can improve the pump vapor removalability



技术参数 Technical data

项目Item		型号 Model	单位 Unit	2XZ--2B	2XZ-4B	2XZ-8B	2XZ-15D
抽气速度		Volume flow rate	L/s (m³/h)	2.5(9.3)	5(18)	9(34)	18(68)
极限压力 Ultimate pressure	分压力(关气镇)	Partial.(without gas ballast)	Pa	6x10 ⁻²	6x10 ⁻²	6x10 ⁻²	6x10 ⁻²
	总压力(关气镇)	Total.(without gas ballast)	Pa	6x10 ⁻¹	6x10 ⁻¹	6x10 ⁻¹	6x10 ⁻¹
	分压力(开气镇)	Partial.(with gas ballast)	Pa	6x10 ⁻¹	6x10 ⁻¹	6x10 ⁻¹	6x10 ⁻¹
	总压力(开气镇)	Total.(with gas ballast)	Pa	9x10 ⁻¹	9x10 ⁻¹	9x10 ⁻¹	9x10 ⁻¹
水蒸气容量		Water Vapour capacity	g/h	360	700	570	1150
噪音(关气镇)		Noise(without gas ballast)	dB(A)	50	50	70	70
工作温度		Operating temperature	°C	90	90	90	90
电机 Motor	相数	Phase		3	3	3	3
	电压	Voltage	V	380	380	380	380
	功率	Power	kW	0.37	0.55	1.1	1.5
	转速	Rotating speed	r/min	1400	1400	1390	1390
重量		Weight	kg	22	28	70	90
注油量 The oil filling quantity	油箱壳	The oil tank shell	L	1.1	1.7	3	4.5
	电机壳	Motor shell		0.6	1.1		

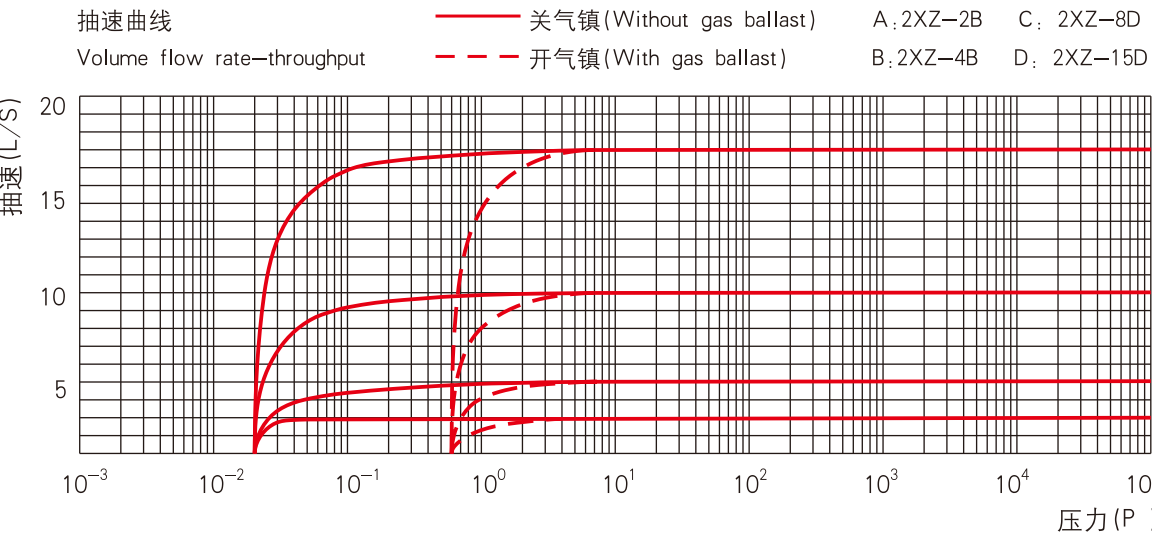
MODEL 2XZ DIRECT-DRIVE ROTARY VANE VACUUM PUMP

2XZ型直联式旋片真空泵

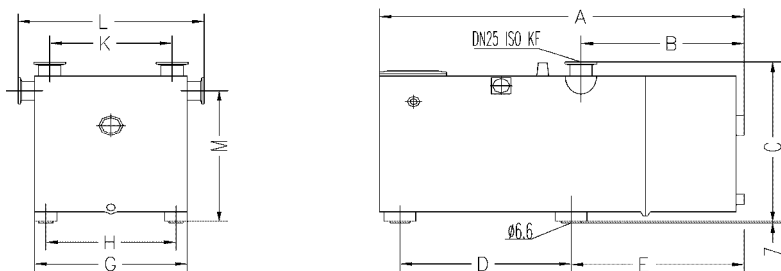
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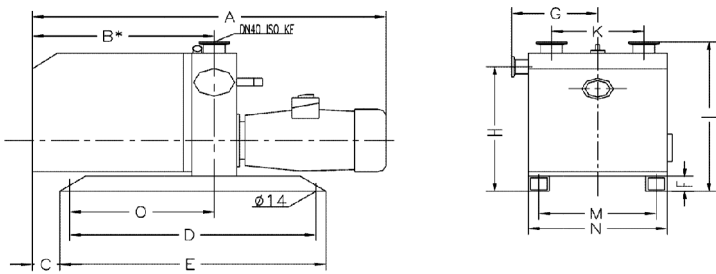
性能曲线 Performance Curves



安装尺寸 Installation Dimensions



	A	B	C	D	E	G	H	K	L	M
2XZ-2B	424	200	222	192	192	150	122	110	190	180
2XZ-4B	460	206	244	216	198	192	164	152	232	200



	A	B*	C	D	E	F	G	H	K	L	M	N	O
2XZ-8D	632	325	36	440	476	140	140	332	165	390	210	248	258
2XZ-15D	748	415	126	440	476	140	140	332	165	390	210	248	258

* 进气口至端面尺寸

Model RVD Direct-drive Rotary Vane Vacuum Pump

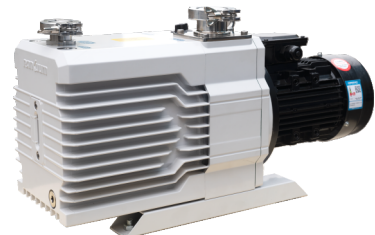
RVD型直联式旋片真空泵

南光机器·真空获得设备

[VACUUM OBTAINING EQUIPMENT]

产品特点 Product Features

- 先进结构，整体式缸体，具有更高的精度，极限真空高；
Advanced structure, monolithic cylinder, higher accuracy, high ultimate vacuum;
- 体积小，噪音低，能耗低；
Small size, low noise, low energy consumption;
- 内置油泵及强制油润滑结构，高吸气压强下也能稳定可靠运行；
Built-in oil pump and forced oil lubrication structure ensure stable and reliable operation under high suction pressure;
- 全新外观设计，壳体铝合金压铸成型，强度更高，重量更轻；良好的散热，温度更低；
Completely new appearance design, the shell is made of aluminum alloy die-casting, which is stronger and lighter; good heat dissipation, lower temperature;
- 两档气镇设计，满足不同客户的真空度要求和水蒸气的处理能力；
Two-stage vapor pump design meets the temperature requirements of different customers and has the ability to handle water vapor;
- 自动防返油阀，泵停转后自动关闭，更可靠地防止泵油对真空系统的污染；
Automatic oil return prevention valve, which closes automatically after the pump stops, more reliably preventing the pump oil from contaminating the vacuum system;
- 氟橡胶密封件，提高抗腐蚀性，解决漏油问题。
Fluororubber seals, improve corrosion resistance, solve oil leakage problem.



技术参数 Technical parameters

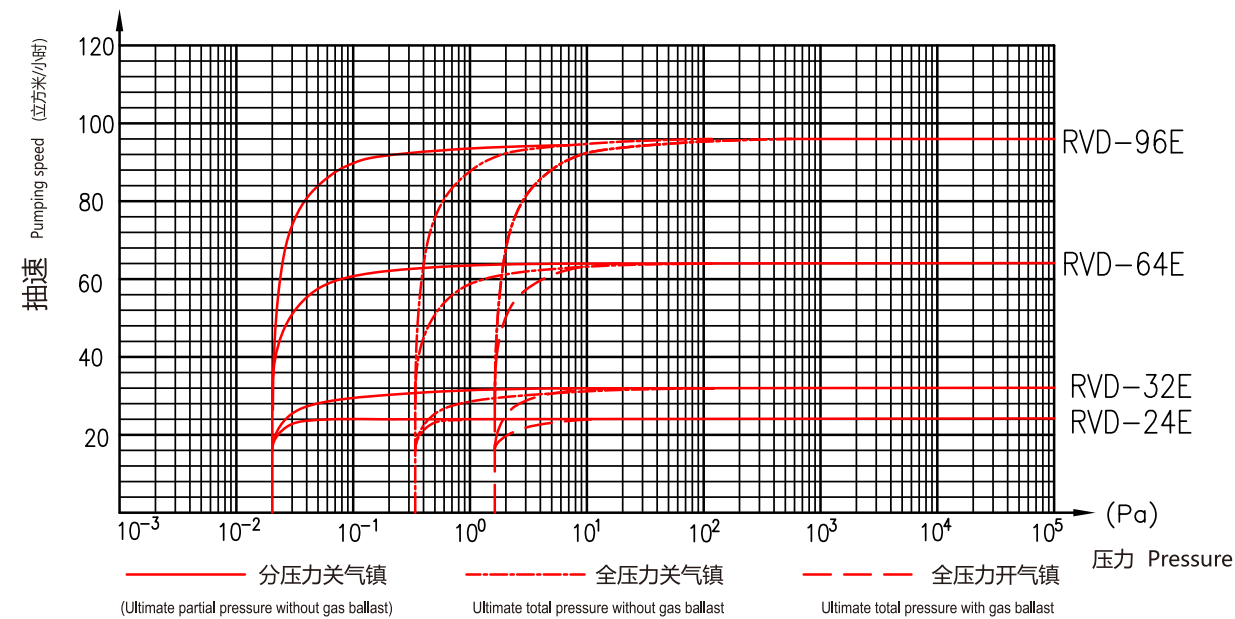
项目 Item			型号Model	单位Unit	RVD-24E	RVD-32E		RVD-64E	RVD-96E
抽气速度 Volume flow rate				L/s	6	9		18.6	27
				m ³ /h	21.6	32.4		67	97
极限压力 Ultimate pressure	分压力(关气镇)	Partial.(without gas ballast)	Pa	3×10 ⁻²	3×10 ⁻²		3×10 ⁻²	3×10 ⁻²	
	总压力(关气镇)	Total. (without gas ballast)	Pa	4×10 ⁻¹	4×10 ⁻¹		4×10 ⁻¹	4×10 ⁻¹	
	分压力(开气镇)	Partial.(with gas ballast)	Pa	3×10 ⁻¹	3×10 ⁻¹		3×10 ⁻¹	3×10 ⁻¹	
	总压力(开气镇 1)	Total. (with gas ballast)	Pa	1	1		1	1	
	总压力(开气镇 2)	Total. (with gas ballast)	Pa	2	2		2	2	
进气口径			Inlet Connection	DN	40KF	40KF		40KF	40KF
排气口径			Outlet Connection	DN	25KF	40KF		40KF	40KF
水蒸气容量			Water Vapour Capacity	g/h	400	600		1200	1800
噪音(关气镇)			Noise(without gas ballast)	dB(A)	60	61		62	62
电机 Motor	相数	Phase		2/3	2	3	3	3	
	电压	Voltage	V	220/380	220	380	380	380	
	功率	Power	kW	0.75	1.1	0.75	2.2	3	
	转速	Rotating speed	r/min	1430	1430		1450	1450	
重量			Weight	kg	34	35.5		80	85
注油量			Oil filling quantity	L	2.1~2.5	2~2.4		5	5.5

► Model RVD Direct-drive Rotary Vane Vacuum Pump

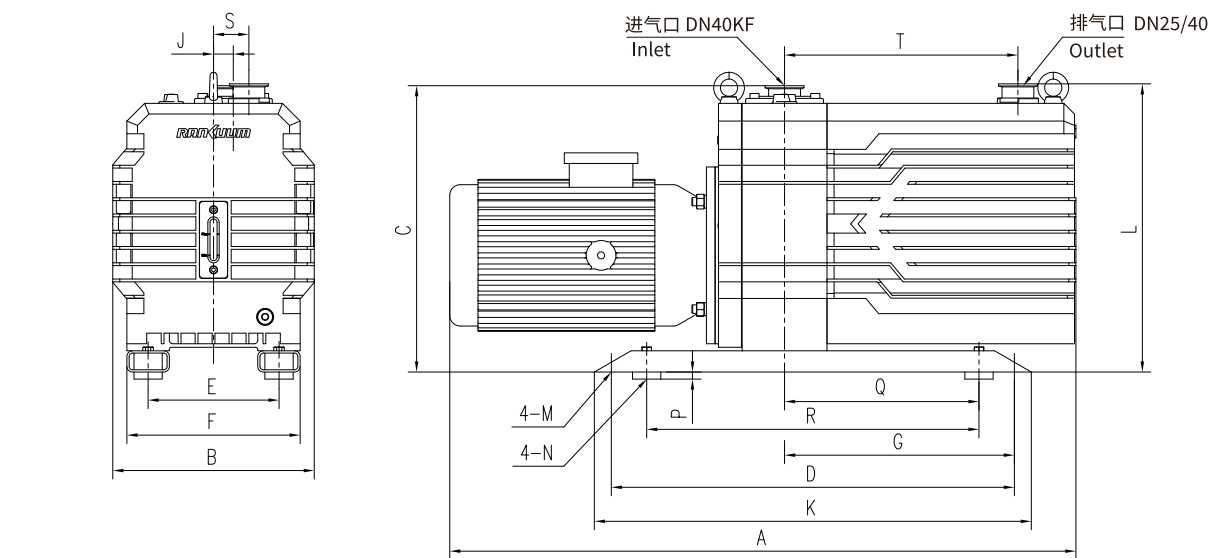
RVD型直联式旋片真空泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

性能曲线 Performance Curves



安装尺寸 Installation Dimensions



型号Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
RVD-24E	563	205	294	290	130	180	135	221	260	40	330	282	12	-	-	-	-	0	221
RVD-32E	563	205	294	290	130	180	135	221	260	40	330	282	12	-	-	-	-	0	221
RVD-64E	886	285	405	570	185	245	325	330	412	28	618	408	14	M10	10	275	470	50	330
RVD-96E	886	285	405	570	185	245	325	330	412	28	618	408	14	M10	10	275	275	50	330

备注: J: 到进气口; S: 到排气口; Remarks: J: To inlet; S: To outlet

SCL-630i screw vacuum pump

SCL-630i螺杆真空泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

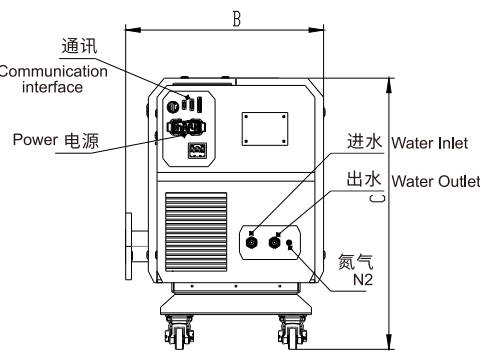
产品简介 Product Introduction

- SCL-630i螺杆真空泵, 转子采用独特的悬臂结构和内部冷却, 保养方便, 寿命长, 满足不同行业应用的需求。
SCL-630i screw vacuum pump, rotor adopts unique cantilever structure and internal cooling, easy maintenance and long life, can meet the needs of different industrial applications.

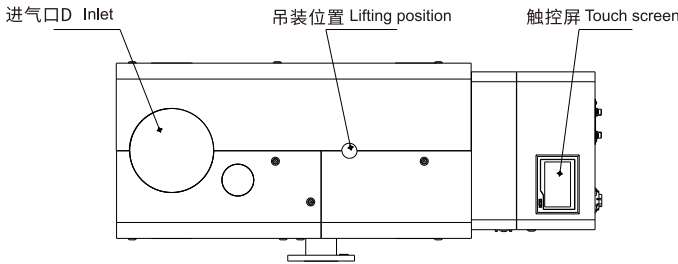
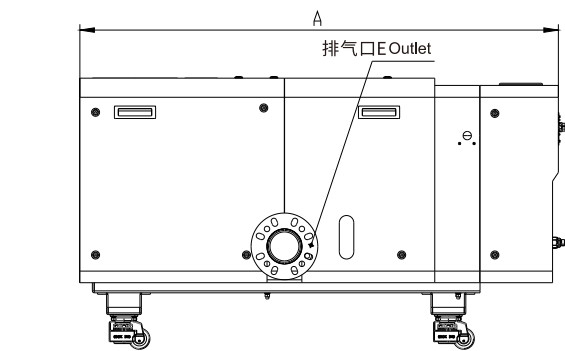
产品特点 Product Features

- 独特的悬臂结构能快速完成转子和壳体清洁, 不用拆除其余零件;
The unique cantilever structure can quickly clean the rotor and shell without removing other parts;
- 悬臂结构使真空级与泵油隔开, 防止泵油进去真空腔室以及制程气体污染真空泵油;
The suspension structure separates the vacuum stage from the pump oil to prevent the pump oil entering the vacuum chamber and process gas polluting the vacuum pump oil;
- 转子内部冷却, 可精确控制转子温度, 避免工艺物沉积;
The internal cooling of the rotor can accurately control the temperature of the rotor and avoid the deposition of process materials;
- 转子和壳体表面可做订制涂层;
Rotor and shell surface can be customized coating;
- 提供风冷和水冷版本, 适应不同客户的需求
Provide air cooling and water cooling versions to meet the needs of different customers
- 可通过I/O接口和RS485接口(Moudbus协议) 实现远程控制和监控功能
Remote control and monitoring functions can be realized through I/o interface and RS485 interface (Moudbus protocol)
- 保护功能齐全, 自适应能力强;
Complete protection function, strong adaptability;
- 可定制全密封结构;
Customized hermetic structure;
- 运转时的振动小、噪声低;
low vibration and low noise during operation;

外形尺寸及接口 Pump Dimensions



A(长 length)	1650
B(宽 width)	680
C(高 height)	935
D(进气 inlet)	DN100
E(排气 outlet)	DN100



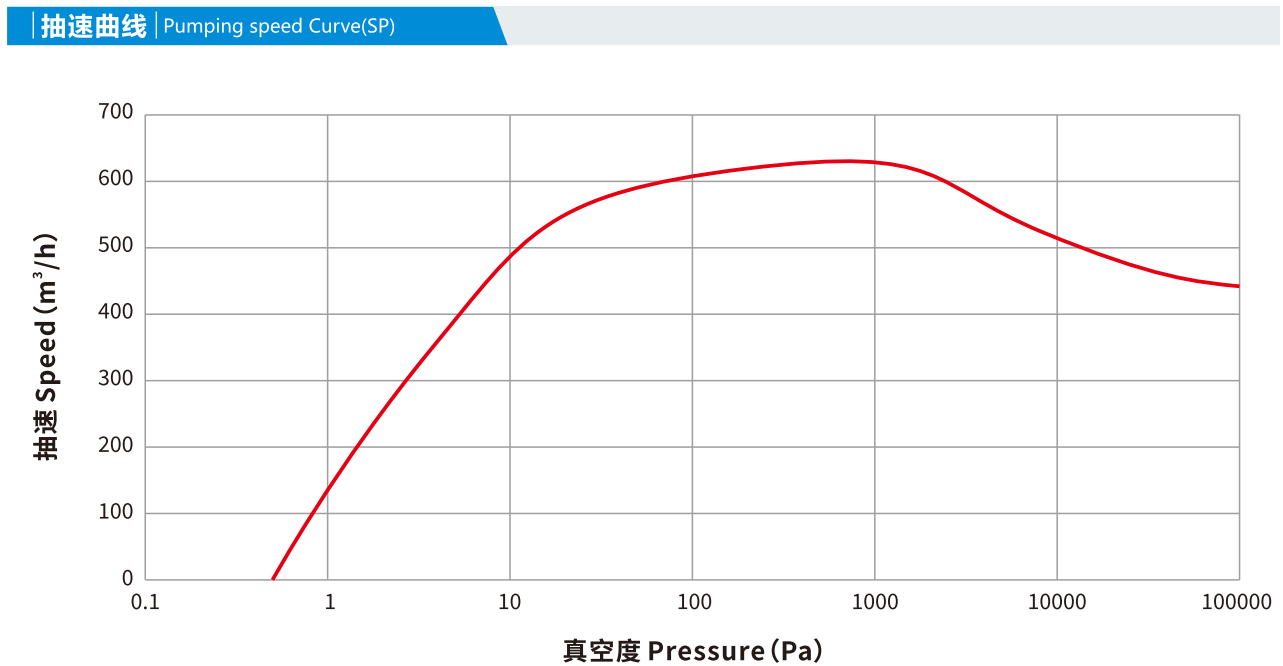
► SCL-630i screw vacuum pump

SCL-630i螺杆真空泵

南光机器 · 真空获得设备

[VACUUM OBTAINING EQUIPMENT]

技术参数 Technical data				
项目 Project		单位Unit	技术参数 Technical parameter	
电气 Electrical	电源电压 Voltage	-	380V 50Hz 3P+G	
	极限真空功率 Ultimate vacuum	kW	7.9	
冷却水 (水冷版本) Cooling water (Cold water version)	压力 Pressure	bar	2-10	
	流量 Rate of flow	slm	9-12	
	温度 Temperature	°C	10-25	
氮气 Nitrogen	供气压力 Bleed pressure	bar	2-10	
	流量 Rate of flow	slm	0-15	
接口 Interface	电源 Power	-	WAIN HK-004/0-M	
	进水 Water inlet	-	G1/2	
	出水 Water outlet	-	G1/2	
	氮气 Nitrogen	-	G1/4	
入口法兰 Inlet flange		-	DN100	
出口法兰 Outlet flange		-	DN100	
最大抽气速率 Maximum pumping speed		m³/h	630	
极限真空 Ultimate vacuum		Pa	<1	
质量 Weight		kg	560	
尺寸(L×宽×高) Size (L×W×H)		mm	1630×650×890	
噪音(极限真空) Noise (Ultimate vacuum)		dB (A)	<75	



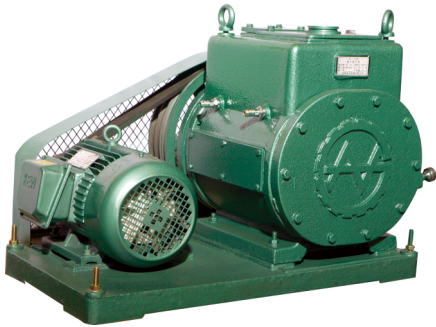
Model 2X Rotary Vane Vacuum Pump ◀

+ 2X型旋片式真空泵

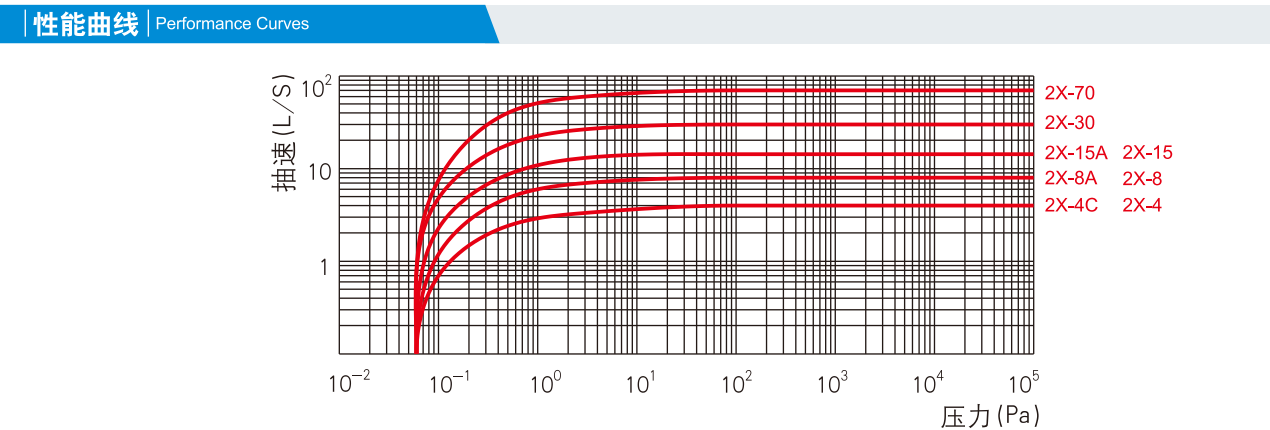
南光机器 · 真空获得设备

[VACUUM OBTAINING EQUIPMENT]

- 产品特点 Product Features
- 可直接从大气压启动抽气
Starting up directly from Atmosphere Pressure for Evacuation
 - 可单独作低真空泵用，也可与其它高真空泵组合作前级泵用
Used either solely as rough pumps, or in combination with other high vacuum pumps as backing pumps
 - 本系列产品广泛应用于冶金、工业、轻工、医药、电子与半导体工业
They find wide applications in the fields of metallurgical, chemical, light industry, medical, electronic and LSI industries
 - 该泵不可用来抽含氧过高的、有毒的、易爆的、与泵油发生化学作用的或对黑色金属有腐蚀作用的气体，也不可当压缩机或传输泵使用。
They can not be used for evacuating the oxygenic, poisonous and explosive gases and gases which can react with pump oil easily. Nor can they be used as compressor and transmission pump



技术参数 Technical data									
型号 Model		2X-4C	2x-4	2X-8A	2X-8	2X-15A	2X-15	2X-30	2X-70
抽气速度 Volume flow rate		4		8		15		30	70
极限压力(不掺气) Ultimate pressure(without gas ballast)	分压力(Pa) Partial pressure	6×10 ⁻²							
	总压力(Pa) Total pressure	2.1			1	2.1	1		
噪声(dB(A)) Noise		72		75		80		82	86
抽大气不喷油时间(min) Non-jetting time of oil when pumping		1							
温升(°C) Temperature rise		40							
电机功率(kW) Motor power		0.75	0.55	1.1		1.5		3	5.5
真空泵油量(L) Consumption of pump oil		1.1		1.5	1.3	3	2.5	4.5	8
主轴转速(rpm) Rotation speed of main shaft		525		550		470		430	450
冷却方式 Cooling mode		自然冷却 air-cooling			水冷 water-cooling	自然冷却 air-cooling	水冷 water-cooling		
冷却水耗量(L/h) consumption of cooling water		—			480	—	480		



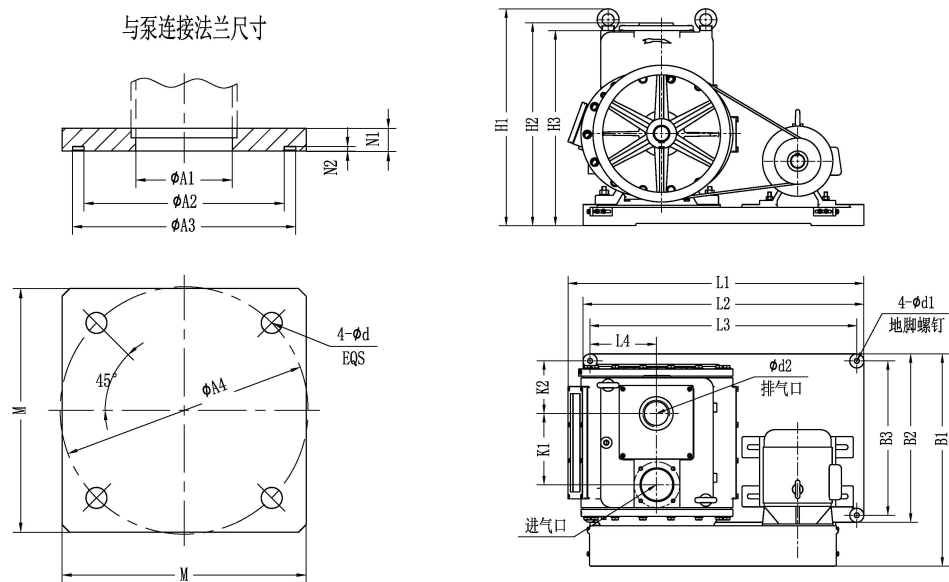
► Model 2X Rotary Vane Vacuum Pump

2X型旋片式真空泵

南光机器·真空获得设备

[VACUUM OBTAINING EQUIPMENT]

外形尺寸及接口 Pump Dimensions



型号	2X-4	2X-8	2X-8A	2X-15	2X-15A	2X-30	2X-70
ΦA1	28	36		50		65	80
ΦA2	35	42		68		80	105
ΦA3	45	52		78		90	113
ΦA4	55	64		90		105	130
N1	10	10		10		10	10
N2	2.8	2.8		3		3	2.8
M	55	64		90		100	130
Φd	7	9		9		9	11
Φd1	10	10		11		12	14
Φd2	25			M33×1.5		M48×1.5	M76×3
H1	342	370		462		514	618
H2(排气口)	318	344		394		475	578
H3(抽气口)	267	292		380		462	556
L1	530	595		675		760	850
L2	520	560		650		720	798
L3	480	490		530		690	758
L4	107	95		105		167	190
B1	320	337		430		480	605
B2	260	280		370		370	480
B3	230	210		274		340	440
K1	82	88.5		107		150	201
K2	85	76.5		115		107	140
冷却水嘴外径	-	Φ14	-	Φ14	-	Φ14	Φ14

ZJP ROOTS VACUUM PUMPS

+ ZJP型罗茨真空泵

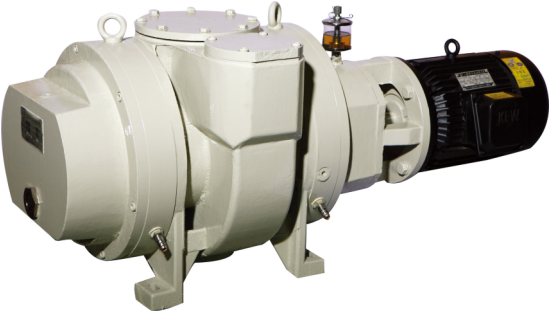
南光机器·真空获得设备

[VACUUM OBTAINING EQUIPMENT]

产品特点 Product Features

- 噪声低(高精度的动平衡) Low noise
- 可实现过载保护(溢流阀的设置) Overflow valve for preventing thermal overloading
- 在较宽的压力范围内有较大的抽速 High pumping speed in the wide pressure range
- 可抽除高沸点工作介质(气体保护装置的设置) Gas protecting device for evacuating high-boiling working media
- 检测方便(进、排气口处设有检测接口) Checking is convenient
- 对被抽气体中含有的灰尘和水蒸汽不敏感 Insensitive to the dust and water vapour contained in pumped gas

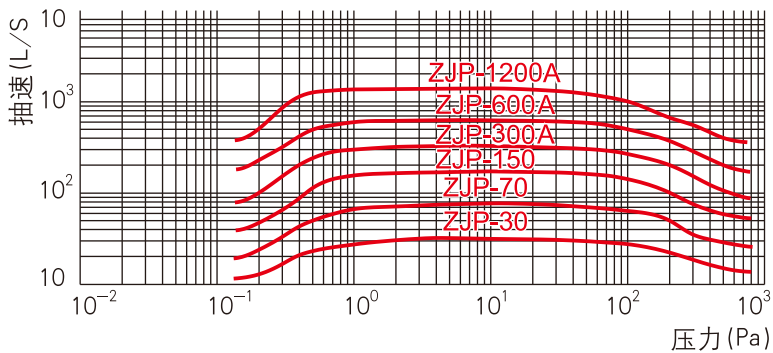
- 驱动功率小 Low drive power
- 该泵广泛应用于冶金、化工、轻纺、电子等领域 They find wide applications in the fields of metallurgical, chemical, textile and electronic industries



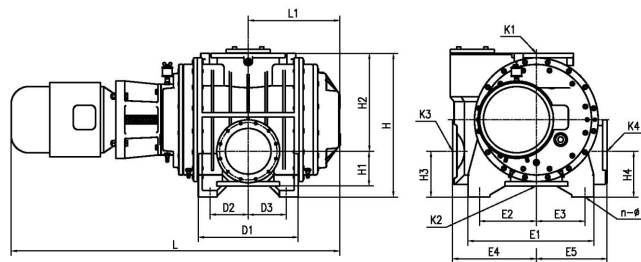
技术参数 Technical data

项目 Item	型号 Model	单位 Unit	ZJP-30	ZJP-70	ZJP-150	ZJP-300A	ZJP-300A	ZJP-1200A
几何抽气速率	Nominal volume flow rate	L/S	30	70	150	300	600	1200
最大抽气速率	Max. volume flow rate	L/S	35	80	172	340	700	1280
极限压力	Ultimate pressure	Pa	3×10^{-2}	3×10^{-2}	3×10^{-2}	3×10^{-2}	3×10^{-2}	3×10^{-2}
最大允许压差	Max. permissible pressure difference	Pa	1×10^4	1×10^4	8×10^4	8×10^3	5×10^3	5×10^3
零流量最大压缩比	Max. compression ratio at zero flow		≥ 30	≥ 35	≥ 40	≥ 40	≥ 45	≥ 50
起动压力	Starting pressure.	Pa	1×10^3	1×10^3	1×10^3	1×10^3	1×10^3	1×10^3
噪声	Noise (LW)	dB(A)	72	72	76	77	80	83
电机功率	Motor power.	KW	0.55	1.1	2.2	4	5.5	11
转速	Rotating speed.	r/min	2825	2825	2840	2890	2900	2930
润滑油量	Lubricant oil filling,	L	1.5	2	3.5	3.5	4	8
重量	Weight.	kg	75	125	175	280	480	800
推荐用前级泵	Recommended backing pump		2X-8	2X-15	2X-30	2X-70	ZJP-150+2X-30	ZJP-300+2X-70

性能曲线 Performance Curves

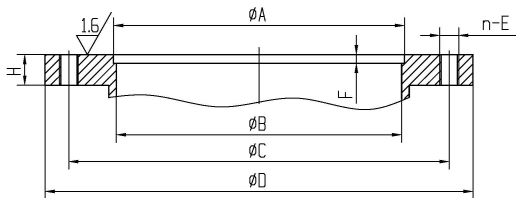


安装尺寸 | Installation Dimensions



尺寸	型号	ZJP-30	ZJP-70	ZJP-150	ZJP-300A	ZJP-600A	ZJP-1200A
L		707	805	875	1075	1250	1482
L1		204	247	252	323	368	418
D1		330	400	230	270	350	452
D2		189	209	100	95	140	170
D3		111	141	100	95	140	170
E1		170	240	320	350	460	570
E2		65	90	140	160	210	260
E3		65	90	120	140	190	210
E4		145	185	245	260	275	380
E5		无	无	无	无	无	320
H		280	327	375	425	520	650
H1		65	72	125	80	100	157
H2		185	212	225	320	390	443
H3		95	115	150	105	130	207
H4		无	无	无	无	无	207
K1		DN50	DN80	DN100	DN160	DN200	DN250
K2		DN40	DN50	DN80	DN100	DN160	DN200
K3		DN40	DN50	DN80	DN100	DN160	DN200
K4		无	无	无	无	无	DN200
n		4	4	4	4	4	4
φ		14	14	12	12	15	16

进气口、排气口尺寸 | Intake and exhaust port dimensions



尺寸(mm)	A	B	C	D	E	F	H	n
DN40	41.2	41	80	100	M8	2.5	12	4
DN50	52.2	51	90	110	M8	2.5	12	4
DN80	83	83	125	145	M8	4.5	12	8
DN100	102	97	145	165	M8	4.5	12	8
DN160	153	147	200	225	M10	4.5	16	8
DN200	213	213	260	285	M10	4.5	16	12
DN250	261	261	310	335	M10	4.5	16	12

产品简介 | Product Introduction

RS- 7000i罗茨真空泵具有极高的抽气速率，可搭配多种前级泵使用。整体采用全密封结构，适用于抽取各种有害气体。

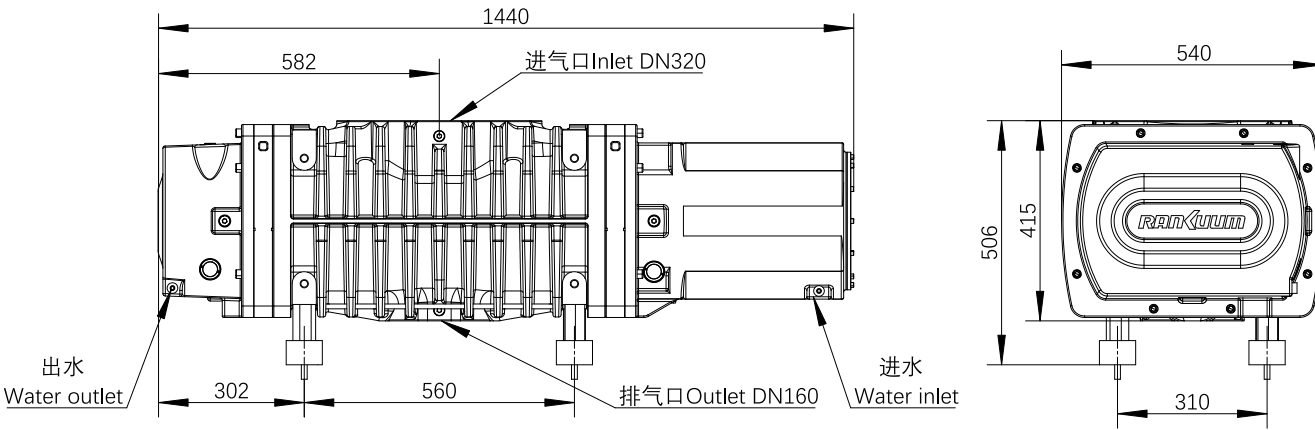
RS- 7000i Roots vacuum pump has a very high pumping rate and can be used with a variety of backing vacuum pumps. The whole structure is fully sealed, suitable for pumping various of harmful gases.

产品特点 | Product Features

- 采用环氧树脂灌封电机，取消传统轴封，杜绝漏油风险；
Using epoxy resin sealed motor, cancel the traditional shaft seal, eliminate the risk of oil leakage;
- 电机和齿轮箱均为水冷，能平衡泵体内部温度，降低油温，延长润滑油使用寿命，提升散热效率；
The motor and gearbox are water cooled, which can balance the internal temperature of the pump body, reduce oil temperature, prolong the service life of lubricating oil and improve heat dissipation efficiency;
- 水冷电机允许极高的电机负载，避免电机温度过高；
Water cooled motor allows very high motor load, avoid motor temperature from rising too high;
- 泵可以搭载变频器使用，使泵可以在大气压下启动，并在真空度下降时提高转速，减少抽气时间，同时拥有极低的能耗；
The pump can be equipped with a frequency converter, so that the pump can be started under atmospheric pressure, and increase the speed when the vacuum drops, reduce the pumping time, and at the same time, it has very low energy consumption;
- 产品安装方式可以同时兼顾水平安装或垂直安装，可满足客户现场不同的安装使用要求；
The installation mode of the product can be horizontal or vertical , which can meet the different installation and use requirements of customers ;
- 先进的轴封结构可延长泵维护周期 Advanced shaft seal structure can extend pump maintenance cycle
- 运转时的振动小、噪声低； Small vibration and low noise during operation;
- 可通过I/O接口和RS485接口(Moudbus协议) 实现远程控制和监控功能
Remote control and monitoring functions can be realized through I/O interface and RS485 interface (Moudbus protocol)



外形尺寸及接口 | Dimensions



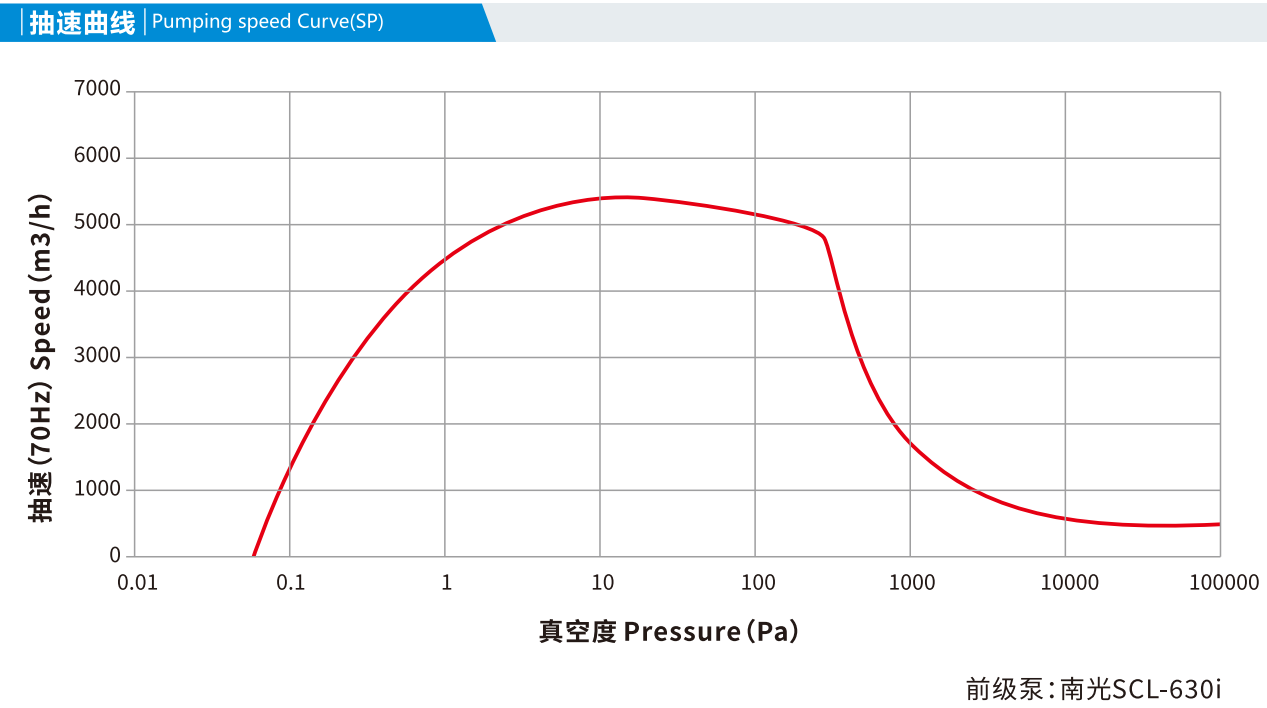
► RS- 7000i Roots vacuum pump

RS-7000i罗茨真空泵

南光机器 · 真空获得设备

[VACUUM OBTAINING EQUIPMENT]

技术参数 Technical data						
项目 Project			单位Unit	技术参数 Technical parameter		
电气 Electrical	电源电压	Voltage	-	380V 50Hz 3P+G		
	功率	Power	kW	11/18.5		
冷却水 Cooling water	压力	Pressure	bar	2-10		
	流量	Rate of flow	slm	3-5		
	温度	Temperature	℃	10-25		
	进水	Water inlet	-	G1/4		
	出水	Water outlet	-	G1/4		
入口法兰		Inlet flange	-	DN320		
出口法兰		Outlet flange	-	DN160		
运行频率		Running frequency	Hz	50	60	70
理论抽气速率		Theoretical pumping speed	m ³ /h	7000	8400	9800
最大允许压差		Maximum allowable pressure differential	Pa	3000	2100	1400
加油量		Fuel charge	L	5		
重量		Weidht	kg	650		
尺寸		Size(L×W×H)	mm	1440×540×415		
噪音		Noise	dB(A)	<75		



+

SERIES KT/TK METAL OIL DIFFUSION PUMPS ◀

KT/TK型金属油扩散泵

南光机器 · 真空获得设备

[VACUUM OBTAINING EQUIPMENT]



用途

Applications

常用于要求抽气时间和排气量大的场合

Mostly used where short pumping time and large throughput are required

产品特点

Product Features

抽速大(与K系列泵相比，KT、TK泵的抽速可提高30-50%)

High Pumping Speed(Compared with Series K,pumping speedof series KT/TK is increased by 30-50%)

工作可靠

Reliable Operation

使用寿命长

Long Service Life

技术参数

Technical data

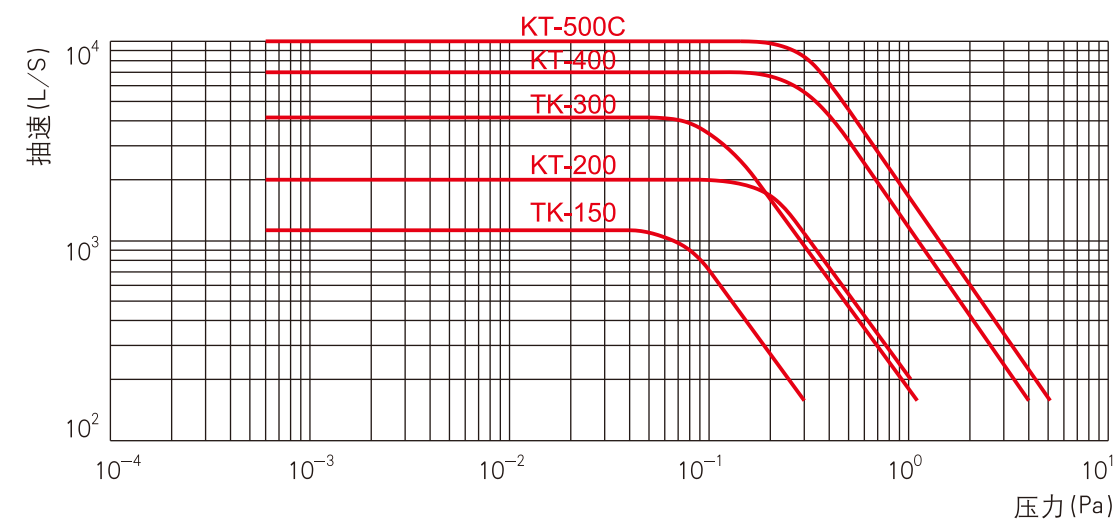
型号Model			TK-150	TK-300	KT-200	KT-400	KT-500C
极限压力	Ultimate pressure	(Pa)	5x10 ⁻⁵	5x10 ⁻⁵	5x10 ⁻⁵	5x10 ⁻⁵	5x10 ⁻⁵
抽气速率	Pumping speed	(L/s)	1000	4000	2000	7000	11000
最大排气压力	Max.pumping pressure	(Pa)	40	40	40	40	40
注入油量	Oil filling	(L)	0.3	1.3	0.55	3.5	5
加热功率	Heating power	(kW)	1	2.4	1.8	4.8	6
冷却水耗量	Consumption of cooling water	(L/Min)	3	5	4	10	12

► SERIES KT/TK METAL OIL DIFFUSION PUMPS

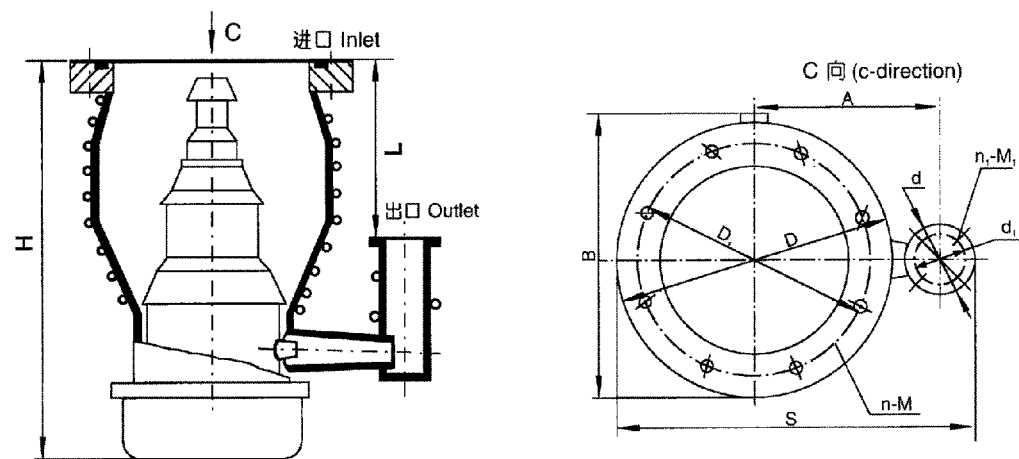
KT/TK型金属油扩散泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

抽速曲线 Pumping speed Curve(SP)



外形及连接参数 Overall Connection Dimensions



型号Model	S	B	H	A	L	D	D1	d	d1	n-M	n1-M1
TK-150	356	240	470	180	165	220	195	110	90	8-M10	4-M8
TK-300	625	450	720	330	280	380	350	145	125	8-M12	4-M8
KT-200	450	290	550	240	200	275	250	125	105	8-M10	4-M8
KT-400	780	560	900	440	360	510	480	165	145	16-M12	8-M8
KT-500C	930	670	1110	500	500	610	580	200	175	16-M12	8-M10

SKRIES K METAL OIL DIFFUSION PUMPS

K型金属油扩散泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

用途 Applications

- 电子工业
Electronic industry
- 化工
Chemical Engineering
- 原子能工业
Atomic Energy Industry
- 空间模拟试验
Space Simulation Test

产品特点 Product Features

- 抽速大
High Pumping Speed
- 工作压力范围10⁻²-10⁻⁵Pa
Working Pressure 10⁻²-10⁻⁵Pa
- 可获得高真空结构简单, 操作方便, 容易维修
Producing High Vacuum, Simple Structure, Easy Operation, Convenient Maintenance



技术参数 Technical data

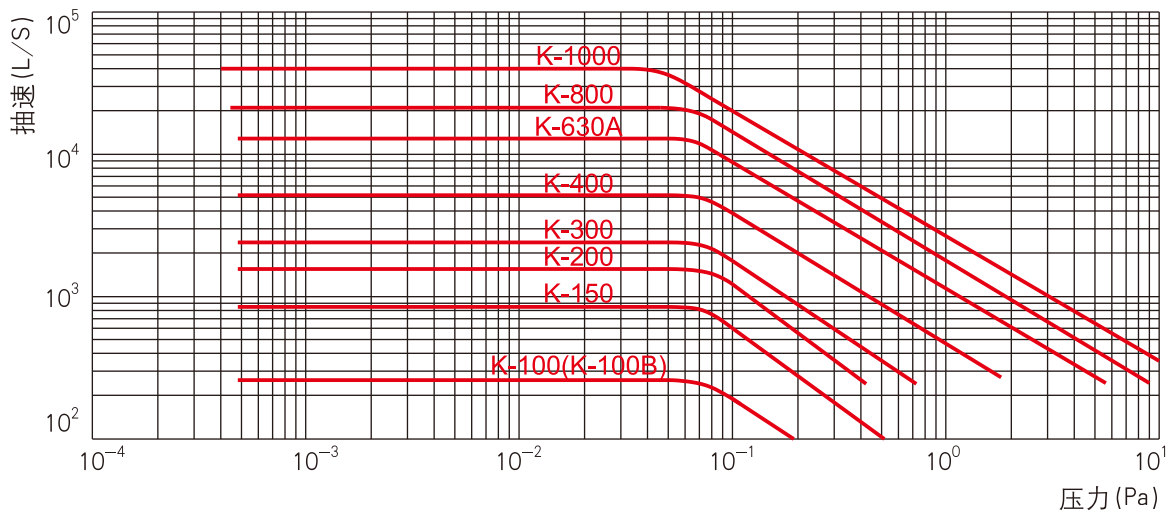
项目Item 型号Model	极限压强 Ultimate Pressure (Pa)	抽气速率 Pumping Speed (L/s)	前级压强 Fore Pressure (Pa)	注入油量 Oil Filling (L)	加热功率 Heating Power (KW)	重量 Weight (Kg)	冷却水耗量 Consumption of cooling water (L/Min)
K-100B/K-100	5×10^{-5}	300	40	0.11	0.65	9	2
K-150	5×10^{-5}	800	40	0.3	1	17	3
K-200	5×10^{-5}	1500	40	0.5	1.5	22	4
K-300	5×10^{-5}	3300	40	1.3	2.1	73	5
K-400	5×10^{-5}	5300	40	2.5	4.8	100	10
K-630	5×10^{-5}	13000	40	6	8.4	—	14
K-630A	5×10^{-5}	14000	40	8	14.4	—	14
K-800	5×10^{-5}	25000	40	15	19.8	—	20
K-1000	5×10^{-5}	40000	40	22.5	26.4	—	26

K型金属油扩散泵

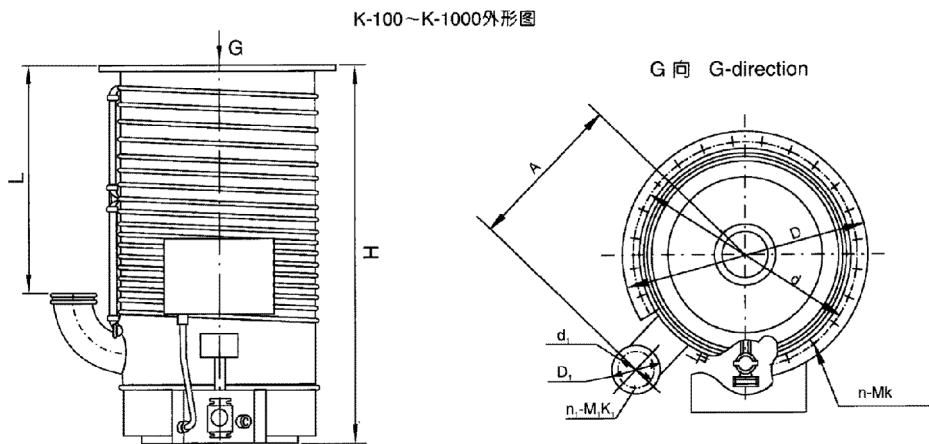
南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]



抽速曲线 Pumping speed Curve(SP)



外形及连接参数 Overall Connection Dimensions



型号Model	项目Item	D	d	A	L	H	D1	d1	n-MK	n1-M1K1
K-100/K-100B		170	145	130	125	334	78	64	4-M10	4-M6
K-150		220	195	180	165	470	110	90	8-M10	4-M8
K-200		275	250	240	200	515	125	105	8-M10	4-M8
K-300		380	350	330	280	690	145	125	8-M12	4-M8
K-400		500	465	440	360	840	170	145	8-M16	4-M10
K-630		750	720	520	500	1110	225	200	20-M12	8-M10
K-630A		750	720	510	500	1260	165	145	20-M12	8-M8
K-800		920	890	600	965	1560	225	200	24-M12	8-M10
K-1000		1120	1090	815	1275	2000	225	200	32-M12	8-M10

2H型滑阀真空泵

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]



2H-70S型滑阀真空泵



2H-150型滑阀真空泵

产品用途 Product Applications

滑阀真空泵是一种油封式变容机械泵,是抽除特定密封容器中一般气体或含有少量可凝性气体（应使用气镇装置）的一种较为理想的真空获得设备,可直接获得低于1Pa的真空度，也可作为其它真空获得设备的前级泵以获得更高的真空度。由于该泵在工作过程中，滑阀与泵腔间始终保持一种无接触式的滚动运动，所以其具有耐脏、耐腐、耐用的特点。本泵的轴承采用油脂润滑，与泵油隔开，因此可以用于抽除含少量粉尘的气体。目前，该泵已广泛应用于冶金、化工、制药、纺织、半导体、单晶硅、多晶硅、石油、食品及原子能等领域。

Slide valve vacuum pump is the oil seal variable mechanical pump, which is the ideal vacuum equipment pumping particular gas or condensable gas (gas ballast device) in sealed container. It can be obtained negative pressure directly, or obtained higher vacuum as the other vacuum system's backing pump. Because of the non-contact rolling motion between the slide valve and the pump chamber, so the pump has the characteristics of dirt-resistant, corrosion preventive and durable. The bearing of the pump are lubricated by grease, which is separated from the pump oil, can be used to pumping the gas with a small amount of dust. In currently, the pump has been widely used in metallurgical, chemical, pharmaceutical, textile, semiconductor, silicon, polycrystalline silicon, petroleum, food and nuclear energy and other fields.

产品特点 Product Features

- 立式结构，结构紧凑;
Vertical structure,compact layout
- 三缸滑阀自平衡结构;
Three cylinder valve self balance structure
- 强制供油系统;
Forced feed oil system

► 2H-type Slide valve vacuum pump series

2H型滑阀真空泵

南光机器·真空获得设备

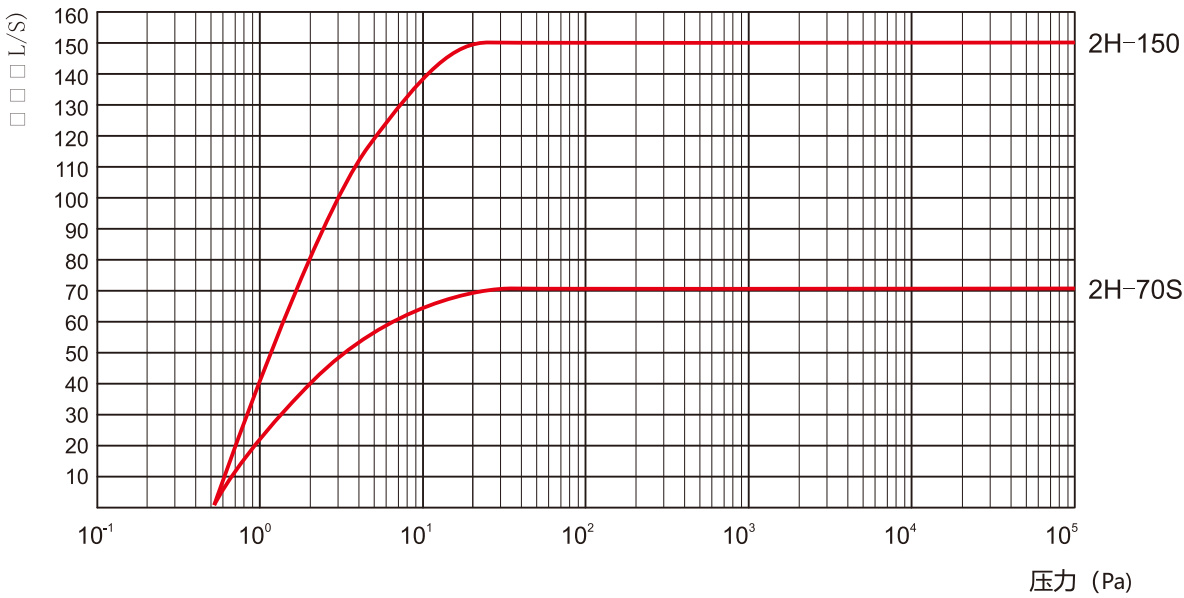
[VACUUM OBTAINING EQUIPMENT]



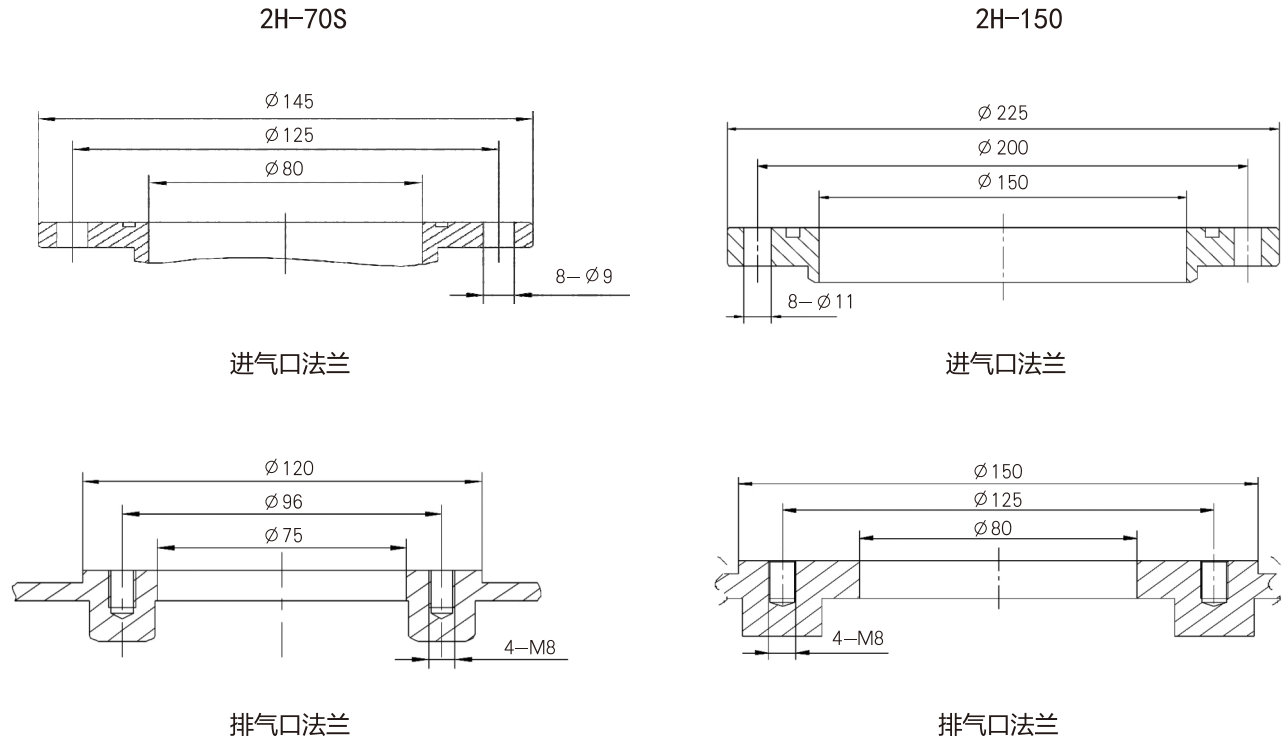
技术参数 Technical data

项目 Item		型号Model	2H-70S	2H-150
极限压力 Ultimate Pressure	总压力 Pa	Total pressure	1	1
	分压力 Pa	Partial pressure	6×10^{-2}	6×10^{-2}
几何抽速(L/s)		Pumping Speed	70	150
噪音dB (A) LW (关气镇)		Noise Off gas ballast	84	86
电机功率 kW		Motor Power	7.5	15
泵的额定转速 r/min		Pump rated speed	590	450
润滑油 lubricating oil	油量 L	Oil	25	35
	牌号	Trademark	HFV-150真空泵油 Vacuum pump oil	HFV-150真空泵油 Vacuum pump oil
水流量 L/min		Cold water	8	8
冷却水温度 °C		Cooling water temperature	$\leq 30^{\circ}\text{C}$	$\leq 25^{\circ}\text{C}$
进气口通径DN mm		Gas admittance DN	80	150
排气口通径DN mm		Gas discharge DN	75	80

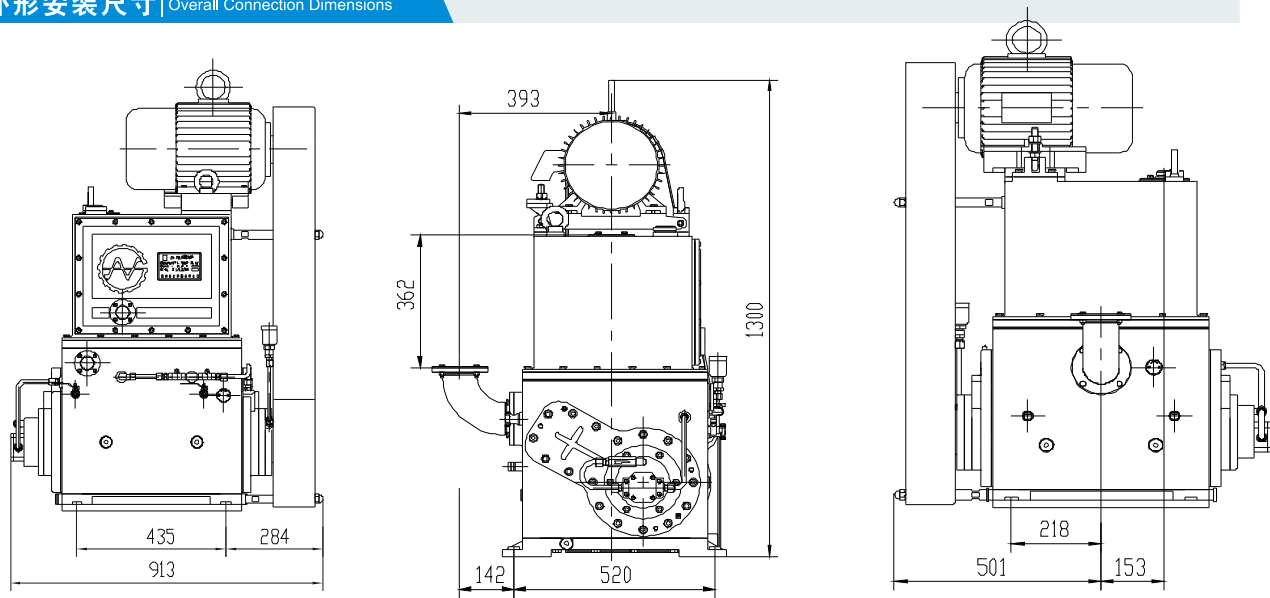
抽气曲线 Performance Curves



接口尺寸 Connection Dimensions



外形安装尺寸 Overall Connection Dimensions



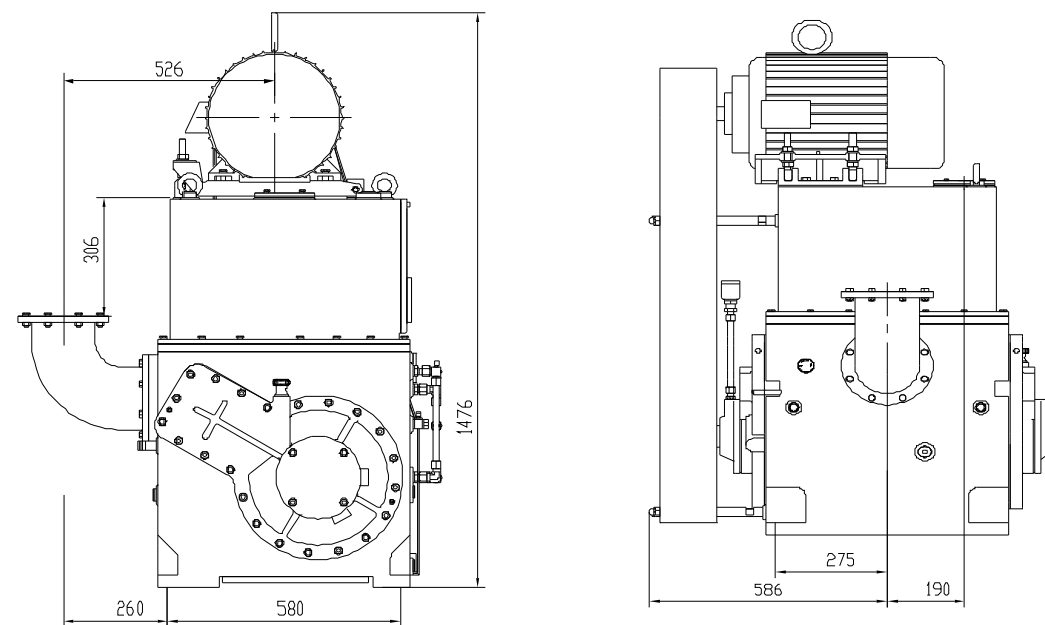
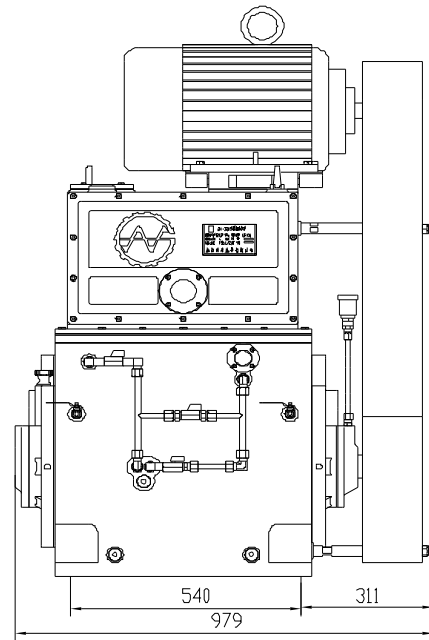
2H-70S外形安装尺寸

2H型滑阀真空泵

南光机器·真空获得设备

[VACUUM OBTAINING EQUIPMENT]

外形安装尺寸 | Overall Connection Dimensions



2H-150外形安装尺寸

真空机组

南光机器·真空获得设备

[VACUUM OBTAINING EQUIPMENT]

产品概述 | Product summary

真空机组是由泵、阀门、管路、测量仪及控制电源等组成的真空抽气系统。可根据用户的被抽容器对真空度、抽气速率、抽气时间等要求，设计制造最合理的真空机组。

抽速: 10^2 - 10^4 Pa/s

极限压力: 10^0 - 10^{-7} Pa

The vacuum unit, a vacuum pumping system composed of pump, valve, pipeline, measuring apparatus, control power supply and etc., can be optimized in terms of designing and manufacturing in accordance with the requirements of the user's pumped container on vacuum degree, pumping rate, pumping time and other aspects.

Pumping rate: 10^2 - 10^4 Pa/s

Ultimate pressure: 10^0 - 10^{-7} Pa

产品用途 | Product Applications

- 化工
Chemical Engineering
- 电子
Electronic Industry
- 石油
Petroleum industry
- 真空冶炼
Vacuum Metallurgy

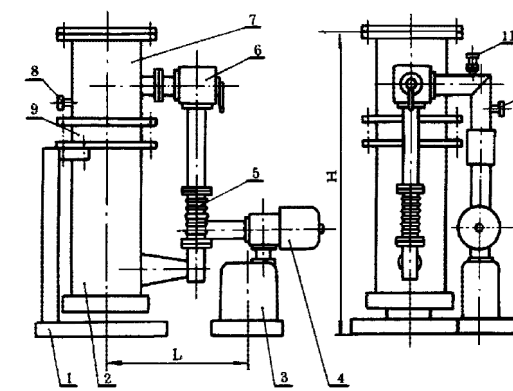


选择 | Selection

根据用户的使用要求，JK-200型和JTK-200型以下的真空机组一般按图1型式选择；JK-300型和JK-300型以上的真空机组，一般可按图2或图3的型式选取；JF型真空机组一般可按图4型式选取。

In accordance with operating requirements of the user, vacuum unit below JK-200 and JTK-200 can be selected in reference to the model specified in Diagram 1, that above JK-300 and JTK-300 to those in Diagram 2 and Diagram 3, and JF vacuum unit to those in Diagram 4.

Jk型真空机组的外型、技术数据及链接尺寸 | Outlines of Model JK Diffusion Pump Unit



- 2. 扩散泵
Diffusion pump
- 3. 前级泵
Backing pump
- 4. 电磁放气阀
Solenoid vent valve
- 5. 波纹管
Bellows
- 6. 组合阀
Combined valve
- 7. 高真空阀
High vacuum valve
- 8. 高真空规
High vacuum gauge
- 9. 水冷档板
Water-cooling
- 10. 低真空规
Low vacuum gauge
- 11. 充(放)气阀
Venting valve

图1 Fig 1

Jf型真空机组的外型、技术数据及链接尺寸

Overall Connection Dimensions

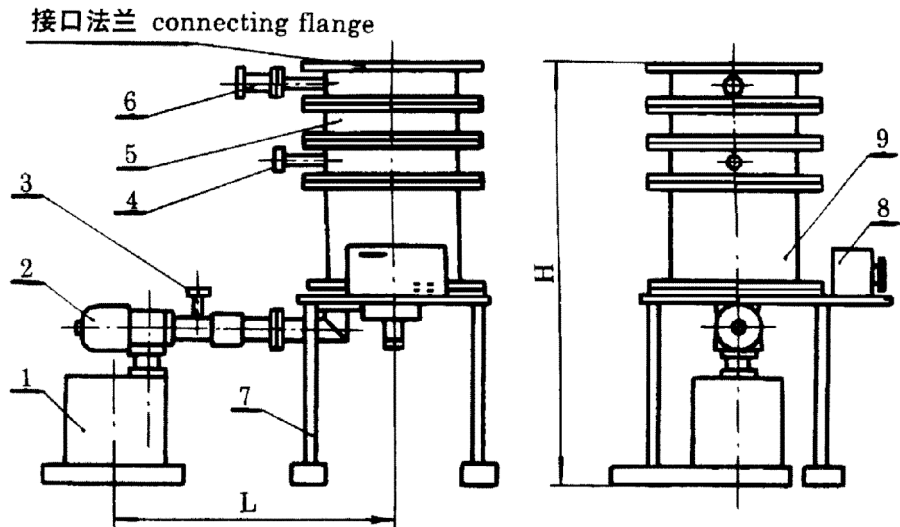


图4 Fig 4

- | | | |
|---------------------------------|--|--|
| 1.前级泵
Backing pump | 4.测量接头
Measurement connector | 7.支架
Support |
| 2.电磁放气阀
Solenoid | 5.高(超高)真空阀
High/Ultra-high vacuum valve | 8.分子泵电源
Power supply of turbomolecular pump |
| 3.测量接头
Measurement connector | 6.充(放)气阀
Venting valve | 9.分子泵
Turbomolecular pump |

技术参数

Technical data

型号 Model		JK-150/450	JK-250/140	JF-400/3500
极限压力 Ultimate Pressure	不烘烤 without baking (Pa)	10 ⁻⁴		
	烘烤 with baking (Pa)	10 ⁻⁶		
前级压力 Backing pressure(Pa)		10		
主泵抽气速率 Pumping speed (L/S)		450	1400	3500
配用主泵 Matched mian pump		F-150/450	F-250/1400	F-400/3500
配用前级泵抽速 Pumping speed of backing pump matched (L/S)		8	30	70
接口法兰 Connecting flange	高真空用 Used in high vacuum (mm)	LF-160	LF-250	LF-400
	超高真空用 Used in high vacuum (mm)	CF-160	CF-250	CF-400
结构尺寸 Structure dimensions	H(mm)	550	850	1000
	L(mm)	450	550	680

Jk型真空机组的外型、技术数据及链接尺寸

Outlines of Model JK Diffusion Pump Unit

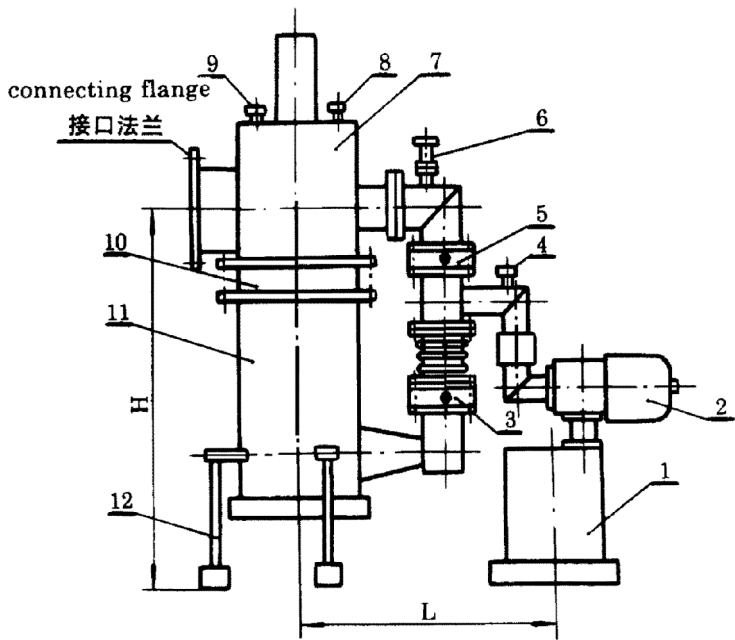


图2 Fig 2

- | | |
|---------|-----------------------|
| 1.前级泵 | Backing pump |
| 2.电磁放气阀 | Solenoid vent valve |
| 3.低真空阀 | Low vacuum valve |
| 4.测量接头 | Measurement connector |
| 5.阀门 | Valve |
| 6.放气阀 | Venting valve |
| 7.高真空阀 | High vacuum valve |
| 8.测量接头 | Measurement connector |
| 9.测量接头 | Measurement connector |
| 10.水冷挡板 | Water-cooling baffle |
| 11.扩散泵 | Diffusion pump |
| 12.支架 | Support |

技术参数

Technical data

型号 Model	JK-100	JK-150	JK-200	JK-300	JK-400	JK-630	JK-800
极限压力(Pa) Ultimate pressure	10 ⁻⁴						
抽气速率(L/s) Pumping	100	280	420	900	1800	4000	6500
最大排气压力(Pa) Max.pumping pressure	35						
加热功率(k/W) Heating power	0.8	1	1.5	2.1	4.8	8.4	19.8
配用主泵 Matched main pump	K-100	K-150	K-200	K-300	K-400	K-630	K-800
配用挡板 Matched baffle	LB-100	LB-150A	LB-200B	LB-300A	LB-400	LB-630	LB-800
配用阀门 Matched valve	GD-100	GD-150	GD-200	GD0-300	GDQ-400	GDQ-630	GDQ-800
配用前级泵 Matched backing pump	2X-4	2X-8	2X-8	2X-15	2X-30	2X-70	2X-70 ZJP-600
接口法兰 Connecting flange	LF-100	LF-150	LF-200	LF-300	LF-400	LF-630	LF-800
结构尺寸(mm) Structure dimensions	H	870	950	1000	1300	1600	2400
	L	550	650	750	850	950	2000

真空机组

南光机器·真空获得设备
[VACUUM OBTAINING EQUIPMENT]

JTK型真空机组的外型、技术数据及尺寸 | Outlines of Model JTK Diffusion Pump Unit

1.前级泵	Backing pump
2.支架	Support
3.电磁放气阀	Solenoid vent valve
4.低真空阀	Low-vacuum valve
5.罗茨泵	Roots pump
6.测量接头	Measurement connector
7.波纹管	Bellows
8.放气阀	Venting valve
9.阀门	Valve
10.测量接头	Measurement connector
11.测量接头	Measurement connector
12.高真空阀	High-vacuum valve
13.水冷挡板	Water-cooling baffle
14.凸腔扩散泵	Convex chamber of diffusion pump
15.支架	Support

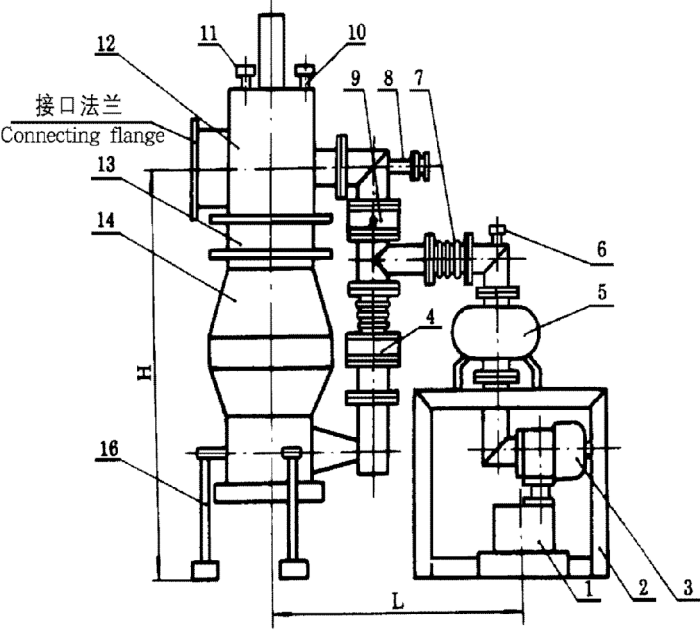


图3 Fig 3

技术参数 | Technical data

型号 Model	JTK-100	JTK-150	JTK-200	JTK-300	JTK-400	JTK-500
极限压力(Pa) Ultimate pressure	10 ⁻⁴					
抽气速率(L/s) Pumping	180	370	600	1400	2500	4000
最大排气压力(Pa) Max.pumping pressure	35					
加热功率(Kw) Heating power	0.8	1.2	1.5	2.4	4.5	6
配用主泵 Matched main pump	TK-100	TK-150	TK-200	TK-300	TK-400	TK-500
配用挡板 Matched baffle	LB-100	LB-150A	LB-200B	LB-300A	LB-400	LB-500
配用阀门 Matched valve	GB-100	GD-150	GD-200	GD0-300	GDQ-400	GDQ-500
配用前级泵 Matched backing pump	2x-4	2X-8	2X-15	2X-30	2X-70	2X-70 ZJP-600
接口法兰 Connecting flange	LF-100	LF-150	LF-200	LF-300	LF-400	LF-500
结构尺寸(mm) Structure dimensions	H	870	950	1000	1300	1700
	L	650	750	850	950	1100



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