

SV, 2XZ, 2X-A, EV, RV, EVP, BSV

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SV Rotary Vane Vacuum Pump

Description: SV single stage rotary vane vacuum pump is oil lubricated air cooling structure.

SV series single stage rotary vane vacuum pump is a kind of reliable, durable, economic and applicable range of vacuum equipment.

In the circular pump body, it has an air suction valve and exhaust valve (stator). The vanes are equipped with an eccentric rotor slot in the rotor, the vane blades divided the pump chamber into three parts. The volume of the pump chamber keeps changing periodically as the rotation of the rotor to finish the process of gas suction, compression and elimination.

Main Features:

- 1.High ultimate vacuum degree, less than 0.5 mbar
- 2.High pumping speed
- 3.Low operating noise, less than 66 dB(A)
- 4.Good capability of pumping or eliminating water vapor
- 5.When the inlet pressure 1.33×10^3 Pa, it still can work continuously
- 6.Environmental-friendly; Equipped with oil mist eliminator can remove 99.99% of the exhaust gas oil.
- 7.Compact structure; scientific and reasonable design; convenient Installation

Applications:

- 1.Packaging & Pasting

Various foods, metal parts and electronic components of vacuum packaging or inert gas packaging;

The pasting of photos and advertising paper;

Vacuum packaging and food processing technology;

Thermoforming (plastic, foam molding)

2.Lifting, transporting, suctioning, loading and unloading

Glass plate lifting(vacuum sucker)

Woodblock, plastic plate sorption, wood processing, CNC engraving machine;

Non magnetic loading and unloading;

Paper and paperboard loading and unloading, transporting in paper and printing industry;

Powder material conveying;

Vacuum spreader and vacuum handling devices

3.Drying, degassing, impregnating

Drying and impregnation of electronic components;

Casting, coating, vacuum degassing furnace;

Vacuum degassing, deaeration, impregnation, concentration, drying

4.Others

Laboratory device;

Medical device, medical system, the central vacuum system, moving the vacuum station, etc;

Recycling of Freon;

Vacuum heat treatment

Model	Pump speed (m3/h)		Ultimate vacuum (Pa)	Motor Power (KW)	Inlet Diam (inch)	Rotary speed (rpm)	Oil Capacity (L)	G.W (kg)	Noise dB (A)	Dimensions (mm)
	50HZ	60HZ								
SV-008	8	9.6	200	0.55(1ph) 0.37(3ph)	G3/8	2800	0.25	11	68	340*210*205
SV-010	10	12	200	0.55(1ph) 0.37(3ph)	G1/2	2800	0.3	18	69	340*210*205
SV-016	16	19.2	200	0.75(3ph) 0.90(1ph)	G1/2	2800	0.3	18	69	340*210*205
SV-020	20	24	200	0.75(3ph) 0.90(1ph)	G1/2	2800	0.5	20	64	405*253*210
SV-025	25	30	200	0.75(3ph) 0.90(1ph)	G3/4	2800	0.5	20	64	405*253*210
SV-040	40	48	50	1.5kw	G1 1/4	1400	1.0	50	67	660*300*270

SV-063	63	75	50	2.2	G11/4	1400	2.0	83	68	695*420*295
SV-100	100	120	50	3.0	G11/4	1400	2.0	87	72	735*420*295
SV-160	160	192	50	4.0	G2	1400	4.5	152	74	805*520*410
SV-200	200	240	50	4.5	G2	1400	4.5	159	76	825*520*410
SV-250	250	300	50	5.5	G2	1400	7.0	230	76	1000*550*410
SV-300	300	360	50	7.5	G2	1400	7.0	236	76	1200*550*410
SV-630	630	750	10	15.0	DN100	960	35	620	75	1630*1300*980
SV-750	750	900	10	18.5	DN100	1150	35	640	76	1630*1300*980



2XZ Direct Drive Rotary Vane Vacuum Pump

Description: 2XZ series rotary vane vacuum pump of large pumping speed with compact structure and low noise.

2XZ series direct-driven rotary vane vacuum pump is one of the main vacuum equipment pumping gas from the sealed container. It not only can be used alone, but also can be a backing pump of booster pump, diffusion pump, turbo molecular pump and titanium pump. It can be used for electric vacuum device manufacturing, thermos manufacturing, vacuum welding, printing, plastic, refrigeration equipment repair and instrument repair facilities, etc. Because of its small volume, light weight, low noise, thus, it's more suitable for using in the lab. When the ambient temperature range under 40 °C, the air inlet pressure is less than 1.3×10^3 Pa, it's allowed long-term continuous operation, However, when pumped gas relative humidity above 90%, it should open the gas ballast valve.

2XZ series direct-drive rotary vane vacuum pump is not available for pumping gas with corrosive, oxygen, explosive, toxic. Etc.

Main Features:

- 1.High pumping efficiency, high pumping speed and long life-time.
- 2.pumping water vapor capacity is perfect
- 3.Less vibration and lower noise
- 4.Refined appearance
- 5.Built-in automatic protection oil return check valve
- 6.Convenient, Multi-block gas ballast valve control
- 7.Simple structure, convenient operation, easy to maintenance

2XZ-C series direct-coupled rotary vane vacuum pump (forced oil inlet type)

This series of pumps are improved on the basis of the original 2XZ model by borrowing advanced foreign technology and experience. They are used to pump out the gas in the sealed container and make the container obtain a vacuum state. It can also be used as a front pump for various high vacuum equipment. Widely used in vacuum metallurgy, vacuum coating, solar amorphous silicon, monocrystalline silicon, polycrystalline silicon, distillation, industry, food packaging, aerospace technology, semiconductor, electronics, refrigeration, medical, chemical and other professional units and universities and research institutes Laboratories and laboratories of other departments.

Structural features:

1. Small size, light weight, low noise;
2. Equipped with a gas ballast valve to remove a small amount of water vapor;
3. High ultimate vacuum;
4. Built-in forced oil pump with sufficient lubrication and reliable performance;
5. Equipped with automatic anti-return oil double safety device;
6. When the intake pressure is maintained at $1.33 \times 10^3 \text{Pa}$, it can still operate continuously;
7. No oil leakage, no oil injection, and no pollution to the working environment. 2XZ-6C, 2XZ-8C, 2XZ-15C, 2XZ-25C, the exhaust device is specially equipped with oil mist collector.

Models		2XZ-2C	2XZ-4C	2XZ-6C	2XZ-8C	2XZ-15C	2XZ-25C
Pump speed (L/s) / (CFM)	50HZ	2 / 4	4 / 8	6 / 13	8 / 17	15 / 32	25 / 53
	60HZ	2.4 / 5	4.8 / 10	7.2 / 15	9.6 / 20	18 / 38	30 / 64
Ultimate pressure (Pa)	Partial pressure	6×10^{-2}	6×10^{-2}	6×10^{-2}	6×10^{-2}	6×10^{-2}	6×10^{-2}
	Total pressure	1	1	1	1	1	1
Rotary speed(r/min)	50HZ	1400	1400	1400	1400	1400	1400
	60HZ	1720	1720	1720	1720	1720	1720
Motor power(Kw)		0.37	0.55	0.75	1.1	1.5	3.7
Working voltage(v)		220/380	220/380	380	380	380	380
Inlet Diam(mm)	I.D.	Φ25	Φ25	KF-25	KF-40	KF-40	KF-40
	O.D.	KF-25	KF-25				
Length		480	520	545	602	692	825

Dimensions(mm)	Width	150	150	172	216	216	260
	Height	282	282	285	319	319	366
Noise dB (A)		65	65	65	65	65	68
Oil capacity (L)		1	1.2	1.5	2.5	3	2.5-4.2
G.W./N.W. (kg)		22/20	24/22	31/36	52/59	60/67	101/105



2X-A Rotary Vane Vacuum Pump

Description: 2X-A two stage rotary vane vacuum pump is belt-drive structure with large speed and high vacuum degree. It's very reliable used in vacuum coating machine pump system as pre-pump.

2X series rotary vane vacuum pumps are used for pumping gas in the specific sealed container and obtain certain vacuum.

Applications:

They're not only used for refrigerators, air conditioners, light bulbs, fluorescent lamps, bottles of bile to production, but also used for metallurgy, chemical industry, light industry, petroleum, medical, pharmaceutical, printing and dyeing, electronics, electric vacuum, semiconductor, food, atomic energy, textile, oil filter, printing machinery, packaging machines and other industries. In addition, in the vacuum smelting, vacuum brazing, vacuum impregnation, vacuum coating, vacuum heat treatment, vacuum drying, vacuum packaging process also uses 2X series rotary vane vacuum pump.

It can be used as the pre pump of diffusion pump, roots pump and molecular pump for electronic instruments, medical equipment and other supporting application and experimental research.

Because the rotary vane vacuum pump is made of black metal, and more sophisticated, the rotary vane vacuum pump is not suitable for suction the gas with too much oxygen, toxic, explosive gases, it cannot be used as compressor and pump either. However, If the pump with gas ballast, it can be pumping condensable vapor gas.

Features:

2X series rotary vane vacuum pump can obtain the vacuum degree under 10⁻³Torr.it can also be equipped with other vacuum pumps to be vacuum system. rotary vane vacuum pumps working in no less than 5 °C at room temperature and not higher than 90% relative humidity environment.

			2X-4A	2X-8A	2X-15A	2X-30A	2X-70A	2X-100A
Pumping speed(L/s)			4	8	15	30	70	100
Ultimate pressure(Pa)	Partial pressure		6×10 ⁻² (5×10-4Torr)					
	Total pressure		2.66(2×10-2 Torr)					
Rotary speed(r/min)			450	320	320	450	420	360
Motor power(Kw)			0.55	1.1	2.2	3	5.5	7.5
Working voltage(v)			380	380	380	380	380	380
Cooling Mode			Natural cooling			Water cooling		
InletDiam(mm)		I.D.	25	40	50	65	80	80
		O.D.	30	50	80	85	100	125
Dimensions(mm)		Length	540	790	790	810	910	1130
		Width	335	430	530	480	650	740
		Height	380	540	540	560	700	690
Oil capacity(L)			1.0	2.0	2.8	3.0	4.2	5
Recommend solenoid valve			DDC-JQ25	DDC-JQ40	DDC-JQ40	DDC-JQ65	DDC-JQ80	
Noise (dB A)			65	70	70	70	75	90
Weight(kg)			60	158	202	230	480	560



EV-16V-S



EV-25V-T

Oil Less Rotary Vane Type Vacuum Pump – EV Series

Description: Stable performance and easy maintenance.

Advantages of EV series oil-less rotary vane vacuum pump

1. Stable performance and easy maintenance.
2. Low temperature, low noise, equipped with exhaust muffler.
3. Environmental protection type, long service life
4. Air cooling, oil-free cleaning.

Application industry:

1. LED lighting industry;
2. Color picture tube line;
3. Packaging and printing industry
4. ACT test
5. Semiconductor industry
6. Automatic adsorption
7. Food and Drug Industry

Model		EV-16V-S	EV-25V-S	EV-16V-T	EV-25V-T	EV-40V-T
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Max. Air Flow	m3/hr	16/19	25/30	16/19	25/30	40/48
Max. Vacuum	mmHg	-650	-650	-650	-650	-650
	kPa	-86.6	-86.6	-86.6	-86.6	-86.6
Motor Pole	Pole	4	4	4	4	4
Motor Phase	φ	1	1	3	3	3
Motor Voltage	Volt	220	220	220/380	220/380	220/380
Motor Output	kW	0.55/0.70	0.75/0.90	0.55/0.70	0.75/0.90	1.25/1.50
Noise Level	dB	61/64	62/67	61/64	62/67	67/72
Ambient Temp.	°C	7~40	7~40	7~40	7~40	7~40
Net Weight	Kg	25	33	25	33	36



RV-10V



RV-16,25V,40V

Oil Less Rotary Vane Type Vacuum Pump– RV Series

Description: Low temperature, low noise, equipped with exhaust muffler.

Advantages of RV series oil-less rotary vane vacuum pump

1. Stable performance and easy maintenance.
2. Low temperature, low noise, equipped with exhaust muffler.
3. Environmental protection type, long service life
4. Air cooling, oil-free cleaning.

Application industry:

1. LED lighting industry;
2. Color picture tube line;
3. Packaging and printing industry
4. ACT test
5. Semiconductor industry
6. Automatic adsorption
7. Food and Drug Industry

Model		RV-10V	RV-16V	RV-25V	RV-40V	RVX-25	RVX-40
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Max. Air Flow	ℓ/min	100/120	230/280	400/480	570/680	400/480	570/680
Con. Vacuum	mmHg	-600	-450	-450	-450	-450	-450
	kPa	-80	-60	-60	-60	-60	-60
Max. Vacuum	mmHg	-720	-650	-650	-650	-	-
	kPa	-96.0	-86.6	-86.6	-86.6	-	-
Motor Pole	Pole	4	4	4	4	4	4
Motor Phase	φ	1	3	3	3	3	3
Motor Voltage	Volt	110/220	220/380	220/380	220/380	220/380	220/380
Motor Output	Watt	250	400	750	1500	1500	2200
Noise Level	dB	-	67/68	69/70	75/76	-	-
Ambient Temp.	°C	7~40	7~40	7~40	7~40	7~40	7~40
Net Weight	Kg	15	22	26	37	53	69
Dimensions	Size						



EVP175/275 Two-stage Oil Rotary Vane Pump

Description: Using non-spring rotary blades to achieve low noise, low vibration and long service life.

EVP175/275 Two-stage oil rotary vane pump Features :

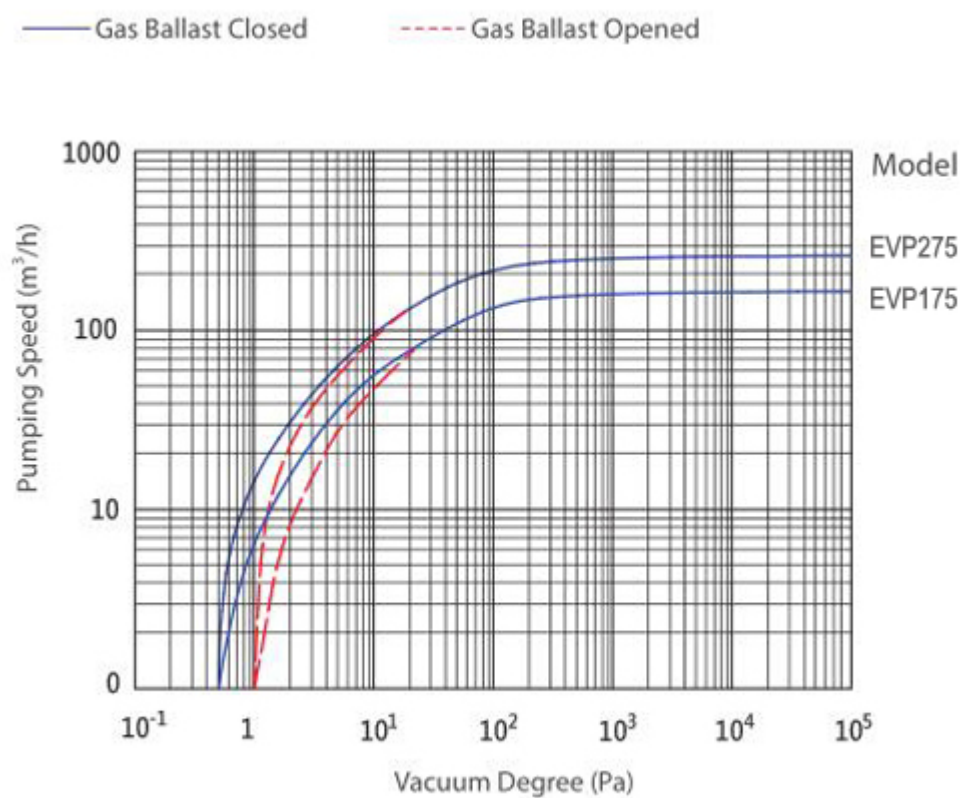
- Using non-spring rotary blades to achieve low noise, low vibration and long service life.
- Built-in check valve to avoid oil return.
- Use built-in forced fed oil pump to ensure long-term continuous operation of the pump under normal pressure.
- Adopt air-cooled, oil-cooled, water-cooled and other cooling methods to ensure a good cooling effect, make the pump run stably for a long time and stable pumping performance.
- Reasonable structure, convenient disassembly and assembly, quick and convenient maintenance.

Performance :

MODEL			EVP175	EVP275
Pumping Rate	50Hz	m3/h	160	255
	60Hz	m3/h	196	306
Motor Rotational Speed	50Hz	r/min	1440	1440
	60Hz	r/min	1720	1720

Motor Power	3 Phase /4 Pole	kW	5.5	7.5
Ultimate Pressure	Gas Ballast Closed	Pa	5×10^{-1}	5×10^{-1}
	Gas Ballast Opened	Pa	2	2
Allowed Maximum Outlet Pressure	Gauge Pressure	MPa	0.05	0.05
Maximum Capacity of Water Vapor	-	kg/h	2.4	2.5
Inlet	JIS	DN	VG80	VG80
Outlet	JIS	DN	VG50	VG50

Pumping Speed Graph :



BSV Series Direct Rotary vane Vacuum Pump

BSV series direct rotary vane vacuum pumps is with low noise, low vibration and long life feather. It is with reflux valve, so it avoid the no returned oil. With high efficiency oil pump, so it can work long time work stably. It is widely used in lighting, Solar Energy, packing, vacuum coating, etc.



Technical Specification:

Model		Unit	BSV30	BSV40	BSV60	BSV90
Suction speed (M ³ /H)/(CFM)	50 Hz	/	30/17.4	40/23	60/35	90/52
	60Hz	/	36/21	48/28	72/41.6	108/62.5
Ultimate vacuum	Gas ballast valve off	Pa	5×10 ⁻¹		5×10 ⁻¹	
	Gas ballast valve on		2.0		2.0	
Motor power	380 V 3Ph	Kw	1.5 (polar 4)		2.2	3.7
Rotary speed	50 Hz	R/min	1400		1400	
Oil capacity		L	1.2~2.8		2.5~4.2	
Suction & discharge port		DN	KF40		KF40	
Weight		Kg	63	65	87	101

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