

EXCELLENT QUALITY | TRUSTWORTHY

Vacuum Pump Product Manual



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 **北京超品科技有限公司**
BEIJING *Super Q* TECHNOLOGY Co., Ltd.
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Beijing Super Q Technology Co., Ltd. is a national high-tech enterprise and a recognized Zhongguancun High-Tech Enterprise. Founded with a vision to drive innovation in the industrial sector, the company integrates R&D, manufacturing, and sales operations to deliver cutting-edge solutions for global clients. Since its establishment, Super Q Technology has remained dedicated to advancing vacuum technology, empowering industries with reliable and efficient products tailored to meet evolving demands.

● **Core Expertise**

Specializing in vacuum technology, Super Q Technology provides a comprehensive range of products spanning from low vacuum to ultra-high vacuum systems. Beyond being a premier supplier, we excel in addressing complex challenges related to vacuum product applications.

● **Partnerships and Quality Commitment**

With a robust marketing management system and a network of trusted partners, we prioritize delivering exceptional value to our clients. The company adheres to stringent quality control standards and continuously refines its products and services to exceed customer expectations. Our mission is to foster long-term, win-win collaborations by understanding and addressing the unique needs of diverse industries.

● **Vision**

To lead the vacuum technology revolution and shape a smarter, more sustainable industrial future through innovation, reliability, and customer-centric excellence.

For inquiries or partnerships, contact Beijing Super Q Technology Co., Ltd. to explore how our expertise can elevate your operations.



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SV Rotary Vane Vacuum Pump



Model	SV-040	SV-063	SV-100	SV-160
Rated pumping speed(m³/h)	40	63	100	160
Ultimate pressure(mbar)	0.1-0.5	0.1-0.5	0.1-0.5	0.1-0.5
Noise(dB(A))	64	65	66	71
Operating temperature(°C)	83	84	85	65
Oil consumption(L)	1.5	2	2	5
Water vapor allowable pressure(mbar)	40	40	40	40
Water vapor removal rate(kg/h)	0.6	1	1.6	2.5
Air inlet(inch)	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"	Rp 2"
Motor power (kw)	1.5	2.2	3	4
Motor speed(rpm)	1440	1440	1440	1440
Weight(kg)	48	58	72	157
Dimension(cm)	66×29×26	66.5×41×29	71.5×41×29	85×49×43

Model	SV-200	SV-250	SV-300	SV-630
Rated pumping speed(m³/h)	200	250	300	630
Ultimate pressure(mbar)	0.1-0.5	.0.1-0.5	0.1-0.5	0.1-0.5
Noise(dB(A))	73	73	75	80
Operating temperature(°C)	72	81	83	88
Oil consumption(L)	5	8	8	25
Water vapor allowable pressure(mbar)	40	40	40	40
Water vapor removal rate(kg/h)	4	4.5	5	7.5
Air inlet(inch)	Rp 2"	Rp 2"	Rp 2"	Rp 3"
Motor power (kw)	4.5	5.5	7.5	18.5
Motor speed(rpm)	1440	1440	1440	1000
Weight(kg)	157	195	211	550
Dimension(cm)	85×49×43	98×53.5×43	100×53.5×43	178×88×73

RVP Rotary Vane Vacuum Pump

RVP5/10/16/24



Model		RVP5	RVP10	RVP16	RVP24
Pumping speed (m³/h)	50Hz	5.4	9.9	14.4	22
	60Hz	6.5	12	17.4	26
Ultimate pressure (Pa)	GP open	≤ 5X10 ⁻¹			
	GP close	≤ 5			
Motor (kw)	380V (3 phases)	0.4 (4poles)		0.55 (4poles)	0.75 (4poles)
	220V (single phase)				
Inlet		KF25/KF16			KF25/40
Outlet		KF25			
Vacuum pump oil		RVP 46			
Oil capacity (L)		0.7	1.1	1.2	1.7
Weight (kg)		22.5	25	27	38

RVP30/40/60/90



Model		RVP30	RVP40	RVP60	RVP90
Pumping speed (m³/h)	50Hz	30	40	60	84
	60Hz	35	48	70	100
Ultimate pressure (Pa)	GP open	≤ 5X10 ⁻¹			
	GP close	≤ 5			
Motor (kw)	380V (3 phases)	1.1	1.5	2.2	2.2
	220V (single phase)	1.1	1.5	2.2	/
Inlet		KF40/KF25		KF40	
Outlet		KF40			
Vacuum pump oil		RVP 68			
Oil capacity (L)		1.9	2.1	5	5.5
Weight (kg)		~43	~50	~81	~85

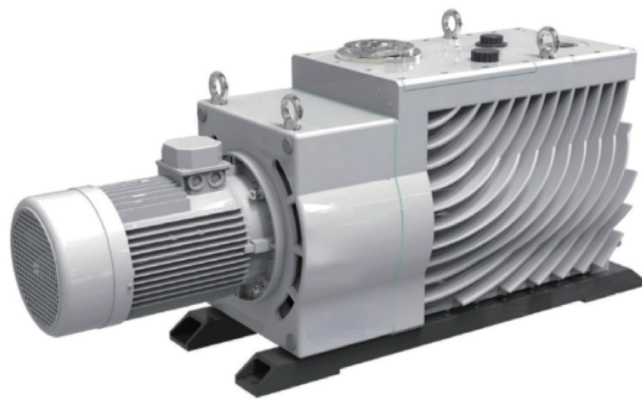
RVP175/275



Model		RVP175	RVP275
Pumping speed (m³/h)	50Hz	160	255
	60Hz	196	306
Ultimate pressure (Pa)	GP open	≤ 5X10 ⁻¹	
	GP close	≤ 2	
Motor rotary speed (r/min)	50Hz	1440	
	60Hz	1720	
Inlet		VG80	
Outlet		VG50	
Vacuum pump oil		RVP 68	
Oil capacity min/max (L)		20~25	23~28
Weight no oil/with oil (kg)		201/210	217/236

TRP Rotary Vane Vacuum Pump

TRP-6/12/24/36/48/60/90/324A



TRP series											
		model unit	TRP-6	TRP-12	TRP-24	TRP-36	TRP-48	TRP-60	TRP-90	TRP-324A	
pumping speed		50HZ	L/s	1.5	3	6	9	14	18	25	75
			m³/h	5.4	10.8	21.6	32.4	50.4	64.8	90	270
		60HZ	L/s	1.8	3.6	7.2	10.8	16.8	21.6	30	90
			m³/h	6.5	13	25.9	38.9	60.5	77.8	108	324
extreme pressure	gas ballast off	separate pressure	Pa	4×10 ⁻²							
		full pressure		4×10 ⁻¹							
	gas ballast on	separate pressure	Pa	1.3							
		full pressure		4							
oil tank		L	0.9	1.1	1.9	2.1	3.9	4.9	5.5	14/14.5	
inlet size		DN	25KF	25KF	25/40KF	40/25KF	40KF			ISO80	
outlet size		DN	25KF				40KF			ISO63	
motor power (1-ph 220V/ 3-ph 380V)		KW	0.37/0.55	0.37/0.55	0.75/0.75	0.75/1.1	1.5/-	2.2/-	2.2/-	7.5/-	
revolving speed	50HZ	rpm	1450								
	60HZ		1750								
noise (gas ballast off)		db	50	50	52	52	56	56	56	75	
weight		kg	~23/27	~25/29	~37	~39	~64	~83	~88	~480/390	

2XZ-B Rotary Vane Vacuum Pump

2XZ-8B



2XZ-15B



2XZ-25B



Model		2XZ-1B	2XZ-2B	2XZ-4B	2XZ-6B	2XZ-8B	2XZ-15B	2XZ-25B
Pumping rate(L/s)		1	2	4	6	8	15	25
Ultimate Pressure(Pa)		6×10 ⁻²						
Nominal Speed(r/min)		1400						
Working voltage(v)		220/380			380			
Motor Power(kw)		0.25	0.37	0.55	0.75	1.1	1.5	3
Inlet Diam(mm)		16	25		KF25	KF40		
Oil Capacity(L)		0.55	0.8	1	1.5	2.5	3	6.5
Temperature rise(°C)		≤ 40			≤ 45			
Size	Length(mm)	467	488	520	550	602	692	830
	Width(mm)	145	150	150	174	216	216	275
	Height(mm)	250	270	270	270	319	319	440
Noise(dB)		65	65	65	65	68	68	70
Weight(kg)		17	20	23	31	52	60	90

Note:
1. Under normal conditions, the geometric pumping speed of the pump is 1~1.2 times of the nominal pumping speed.
2. Under normal conditions, the maximum operating temperature of the pump is the sum of the maximum ambient temperature and the maximum temperature rise of the pump itself.
3. A "B" on the model indicates that the pump is a forced oil inlet type of oil pump, and a "B" without it indicates a self-priming oil inlet type.

ZJ Roots Vacuum Pump

ZJ30/70/150/300



Model		ZJ-30	ZJ-70	ZJ-150	ZJ-300
pumpingrate m³/h (L/min)	50HZ	95 (1580)	280 (4670)	500 (8330)	1000 (16667)
	60HZ	115 (1920)	330 (5500)	600 (10000)	1200 (20000)
Max.suctionpressure (whencontinuouswork)	50HZ	1.3X10³	1.2X10³	1.3X10³	
	60HZ	1.3X10³	9.3X10²	1.1X10³	
Maximumallowable pressure	50HZ	8X10³	4X10³	7.3X10³	
	60HZ	6.7X10³	3.3X10³	6X10³	
Extreme pressure		4X10 ⁻¹			
Coar se suction pump (m³/h)		16	40、60	90、150	150、240
Motor(2poles) (kw)		0.4	0.75	2.2	3.7
Lubricating oil pecification		Vacuum Pump Oil			
Oil mass needed (L)		0.4	0.8	1.6	2.0
Cooling Water	flux (L/min)	wind cooling	2 ⁻³	2	3
	Pressure difference MPa		0.1		
	Water Temp (°C)		5-30 ⁻⁴		
Weight (Kg)		30	51	79.5	115
Inlet		VG50	VG80	VG80	VG100
Outlet		VF50	VF80	VF80	VF80

ZJ600/1200



Model		ZJ-600	ZJ-1200
pumping rate(m³/h)	50HZ	2590	4140
	60HZ	3110	4985
Max. suction pressure (when continuous work)	50HZ	1.0X10 ⁵	
	60HZ	1.0X10 ⁵	
Maximum allowable pressure (Pa)	50HZ	8X10³	6X10³
	60HZ	6.7X10³	5X10³
Extreme pressure		4X10 ⁻¹	
Motor (2poles) (kw)		7.5	11
Lubricating oil pecification		Vacuum Pump Oil	
Gear Cover (L)		3.5	
Hydraulic Drive (L)		6.5	
Shaft Seal Reservoir (L)		6	
Cooling Water	flux (L/min)	6	
	Pressure difference (MPa)	2X10 ⁻¹ -6X10 ⁻¹	
	Water Temp (°C)	5-30 ⁻³	
Weight (Kg)		350	420
Inlet		ISO160	ISO250
Outlet		ISO100	

ZJP Roots Vacuum Pump

ZJP300/600/1200



Model		ZJP-300	ZJP-600	ZJP-1200
Displacement Speed(L/s)		300	600	1200
Ultimate pressure (Pa)	Foreline Pump 2H-15	—	—	—
	Foreline Pump 2H-30	2×10 ⁻²	—	—
	Foreline Pump H-70	1×10 ⁻¹	5×10 ⁻²	—
	Foreline Pump H-150	—	1×10 ⁻¹	1×10 ⁻¹
	Foreline Pump 2H-70A	—	—	5×10 ⁻¹
Maximum allowable differential pressure(Pa)		7×10³	4.5×10³	4×10³
Motor speed(r/min)		3000	2980	2860
Motor power(kw)		4	7.5	11
Flange interface	inlet(mm)	150	200	250
	outlet(mm)	150	200	200
Recommended Foreline Pump		2H-30,2H-70,2X-30,2X-70	H-150, 2H(X)-70	H-150, ZJ300/2H(X)-70
cooling method		water-cooling	water-cooling	water-cooling
Allowable temperature rise		≤ 40°C	≤ 40°C	≤ 40°C
Vacuum pump oil		100#	100#	100#
Weight(Kg)		265	780	890

Oil-Free Piston Pump



Model	pressure (Kpa)	airflow (m³/h)	nominal rating(W)	noise (dB)	weight (kg)	Overall dimensions (mm)	Installation dimensions (mm)
200C	150	1.8	120	50	1.8	L143*W85*H123	L98*W74
300C	200	3.0	150	50	3.2	L185*W93*H144	L117*W70
550C	400	6.0	320	56	6.0	L246*W98*H166	L146*W83
1400C	600	9.0	550	58	8.5	L245*W125*H185	L203*W85
2000C	800	13.2	900	60	10	L265*W125*H206	L223*W85
2400C	1000	14.4	1100	75	17.5	L325*W160*H285	L245*W128
3000C	1000	16.8	1500	76	17.5	L325*W160*H285	L245*W128
200V	-84	1.8	100	48	1.8	L143*W85*H124	L98*W74
300V	-88	3.0	120	50	3.2	L185*W93*H144	L117*W70
400V	-88	4.2	250	58	5.5	L195*W125*H185	L152*W85
550V	-92	6.0	280	56	6.0	L246*W98*H166	L146*W83
1400V	-92	9.0	450	58	8.5	L245*W125*H185	L203*W85
2000V	-92	12.0	550	60	9.0	L245*W125*H206	L203*W85
2400V	-92	14.4	900	75	10	L265*W125*H208	L223*W85
3000V	-93	16.8	1500	76	17.5	L325*W160*H285	L245*W128
300H	-98	2.4	120	50	3.2	L185*W93*H144	L117*W70
550H	-98	4.8	280	56	6.0	L246*W98*H166	L146*W83
1400H	-98	7.2	450	58	8.5	L245*W125*H185	L203*W85
2000H	-98	10.8	550	60	9.0	L245*W125*H206	L203*W85
2400H	-98	12.6	900	75	10	L265*W125*H208	L223*W85
3000H	-98	14.4	1500	76	17.5	L325*W160*H285	L245*W128

RS&2RS Rotary Vane Vacuum Pump

RS-1/1.5/2/3/4/6



Model	RS-1		RS-1.5		RS-2		RS-3		RS-4		RS-6	
Voltage	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
Pumping Speed (CFM)	3	2.5	4	3.5	5	4.5	7	6	9	8	12	10
Ultimate Vacuum	PA	5	5	5	5	5	5	5	5	5	5	5
	mbar	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Rotating Speed(rpm)	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440
Power (HP)	1/4		1/3		1/3		1/2		3/4		1	
Oil Capacity (mL)	220		225		250		250		300		450	
Dimension (mm)	260*110*240		275*115*240		290*120*240		310*125*255		360*135*270		430*142*280	
Weight (Kg)	7		7.5		8.5		12		13		16	

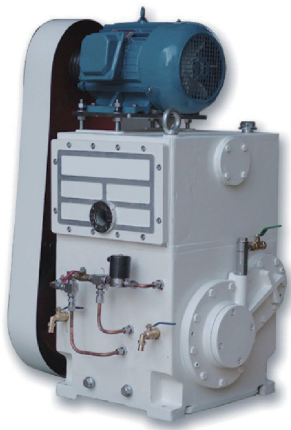
2RS-0.5/1/1.5/2/3/4/5



Model		2RS-0.5		2RS-1		2RS-1.5		2RS-2		2RS-3		2RS-4		2RS-5	
Voltage		110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
		60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
PumpingSpeed (CFM)		2	1.5	3	2.5	4	3.5	5	4.5	7	6	12	10	14	12
Ultimate Vacuum	PA	2×10 ⁻¹		2×10 ⁻¹		2×10 ⁻¹		2×10 ⁻¹		2×10 ⁻¹		2×10 ⁻¹		2×10 ⁻¹	
	micron	1.5		1.5		1.5		1.5		1.5		1.5		1.5	
RotatingSpeed(rpm)		3500	2800	3500	2800	3500	2800	3500	2800	3500	2800	3500	2800	3500	2800
Power (HP)		1/4		1/3		1/3		1/2		3/4		1		1	
Oil Capacity (mL)		250		250		330		330		370		550		550	
Dimension (mm)		280*110*215		280*110*215		290*115*220		290*115*220		360*135*275		430*142*280		430*142*280	
Weight (Kg)		8.5		9		9.5		10		12.5		20		22	

H&2H Sliding Vane Pump

2H-30A/70A/120A/150A



Model		2H-30A	2H-70A	2H-120A	2H-150A
Geometric pumping speed (L/S)		30	70	120	150
Extreme pressure (PA)		6×10^{-2}			
Pump speed (rpm)		490	590	615	600
Belt motor	Power (kw)	4	7.5	11	15
	Speed (rpm)	1440		1460	
	Model	Y112M-4	Y132M-4-7.5	Y160M-4-11	Y160L-4-15
Maximum pressure of pump inlet for long term operation (PA)		1.3×10^3			
Cooling water consumption (L / h)		135	350	450	600
Lubricating oil	Brand name	100# vacuum pump oil			
	Storage capacity (kg)	9	25	30	45
caliber	Intake (mm)	63	80	100	125
	Exhaust (mm)	50	76	80	100
Volume (length * width * height) (mm)		510×632×976	815×780×1226	785×710×1300	910×710×1300
Weight (Kg)		304	606	850	950

H-150A/300A



Model		H-150A	H-300A
Geometric pumping speed (L/S)		150	300
Extreme pressure (PA)		1	1.3
Pump speed (rpm)		450	450
Belt motor	Power (kw)	15	30
Maximum pressure of pump inlet for long term operation (PA)		1.3×10^4	1.3×10^3
Cooling water consumption (L / h)		700	1320
Lubricating oil	Brand name	100# vacuum pump oil	
	Storage capacity (kg)	30	75
caliber	Intake (mm)	100	200
	Exhaust (mm)	80	100
Volume (length * width * height) (mm)		1593×826×1285	780×1231×1874
Weight (Kg)		680	1830

KT Oil Diffusion Vacuum Pump

K-160T/K-200T/K-250T/K-300T/K-400T/K-500T/K-600T/K-800T/K-1000T/K-1200T



Model	K-160T	K-200T	K-250T	K-300T	K-400T	K-500T	K-600T	K-800T	K-1000T	K-1200T
Parameter										
Ultimate Vacuum (Pa)	5×10^{-5}									
Pumping Speed ($3 \times 10^{-3} \sim 7 \times 10^{-2}$ Pa internal-to-Air) (L/S)	1500	1750	2800	3500	7500	12000	16000	29000	50000	60000
Heating Power (kw)	1.2	1.6	2.4	3	4	6	6.5	16.5	20	28
Oil Mass (L)	0.6	0.8	1.2	1.6	4	6	7	13	20	24
Water Consumption (L/h)	250	300	300	400	600	700	800	1200	1500	2600
Maximum critical pressure (Pa)	40									
Recommended Backing PumpingSpeed (L/S)	8	15	15	30	60	70	120	240	350	350
Diameter of Inlet (mm)	Φ160	Φ200	Φ250	Φ300	Φ400	Φ500	Φ600	Φ800	Φ1000	Φ1200
Diameter of outlet (mm)	Φ50	Φ65	Φ65	Φ80	Φ100	Φ100	Φ150	Φ200	Φ250	Φ300

IDSP Oil-Free Scroll Vacuum Pump

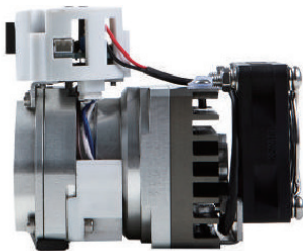
IDSP6/10/16/36/45



Parameter		IDSP6	IDSP10	IDSP16	IDSP36	IDSP45
Model	L/s	2	3	4	10.5	12.5
	m³/h	6	10	16	36	45
Ultimate vacuum	mbar	0.03	0.008	0.008	0.01	0.05
	Pa	3	0.8	0.8	1.0	5
Leak rate	mbar·l/s	—	—	< 1×10 ⁻⁶	—	—
	pa·m³/s	—	—	< 1×10 ⁻⁷	—	—
Motor voltage	V	Single-phase 100~200/220~240				
Motor power	w	400	400	400	1100	1100
Motor speed	rpm	1800	1800	1800	1800	1800
Maximum inlet pressure	—	ATM				
Dimension	mm	430×274×305			574×335×368	
Noise	dB(A)	54	54	54	56	56
Inlet port	—	KF 25	KF 25	KF 25	KF 40	KF 40
Outlet port	—	KF 25	KF 25	KF 25	KF 25	KF 25
Water vapor capacity	gh ⁻¹	100	136	268	200	200
Weight	kg	—	28	29	56	56
Cooling	—	—	—	Air	—	—
Ambient Temperature	°C	—	—	5-40	—	—

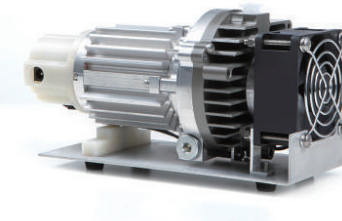
SOF Miniature Dry Floating Scroll Vacuum Pump

SOF-2



Model	SOF-E0-2	SOF-E1-2	SOF-E0M-2
Pumping speed	2 L/min		
Ultimate Pressure	≤ 1 mbar(100Pa)	≤ 0.1 mbar(10Pa)	≤ 0.05 mbar(5Pa)
Power	≤ 12W		
Motor type	Brushless DC motor		
Voltage	DC 12V		
Maximum speed	3500RPM		
Maximum steam treatment capacity	Can remove a small amount of liquid water		
Maximum intake pressure	1 bar(Pressure value of the table)		
Maximum exhaust pressure	0.6 bar(Pressure value of the table)		
Noise	45 dB(A)		
Weight	0.4 kg		
Size	95×51×78 mm		
Inlet/Outlet	M5 threaded hole		
Cooling method	forced air cooling		
Working environment temperature	-20°C—40°C		

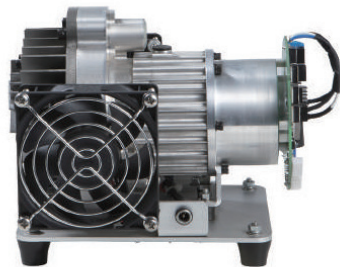
SOF-5



Model	SOF-E0-5	SOF-E1-5	SOF-E2M-5
Pumping speed	5L/min		
Ultimate Pressure	≤ 1 mbar (100Pa)	≤ 0.1mbar (10Pa)	≤ 0.05 mbar (5Pa)
Power	≤ 20W		
Motor type	Brushless DC motor		
Voltage	DC 12V		
Maximum speed	3600 RPM		
Maximum steam treatment capacity	Can remove a small amount of liquid water		
Maximum intake pressure	1 bar(Pressure value of the table)		
Maximum exhaust pressure	0.6 bar(Pressure value of the table)		
Noise (OEM/with shell)	56/50 dB(A)		
Weight (OEM)	1.1 kg		
Weight (with shell)	1.3 kg		
Size (OEM)	183×87×93mm		
Size (with shell)	185×132×119mm		
Inlet/outlet (OEM)	G 1/8"		
Inlet/outlet (with shell)	G 1/4"		
Cooling method	forced air cooling		
Working environment temperature	-20°C—40°C		

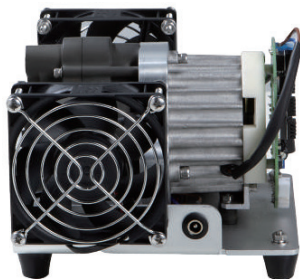
SOF Miniature Dry Floating Scroll Vacuum Pump

SOF-20



Model	SOF-E0-20	SOF-E1-20	SOF-E2-20	SOF-E3M-20
Pumping speed	20L/min			
Ultimate Pressure	≤ 1mbar(100Pa)	≤ 0.1mbar(10Pa)	≤ 0.01mbar(1Pa)	≤ 0.005mbar(0.5Pa)
Power	≤ 180W			
Motor type	Brushless DC motor			
Voltage	DC 24V			
Maximum speed	4500RPM			
Maximum steam treatment capacity	Can remove a small amount of liquid water			
Maximum intake pressure	1.5 bar(Pressure value of the table)			
Maximum exhaust pressure	1 bar(Pressure value of the table)			
Noise (OEM/with shell)	58/54 dB(A)			
Weight (OEM)	2.3 kg			
Weight (with shell)	3.0 kg			
Size (OEM)	197×183×144mm			
Size (with shell)	289×164×165mm			
Inlet/outlet	G 1/4"			
Cooling method	forced air cooling			
Working environment temperature	-20℃—40℃			

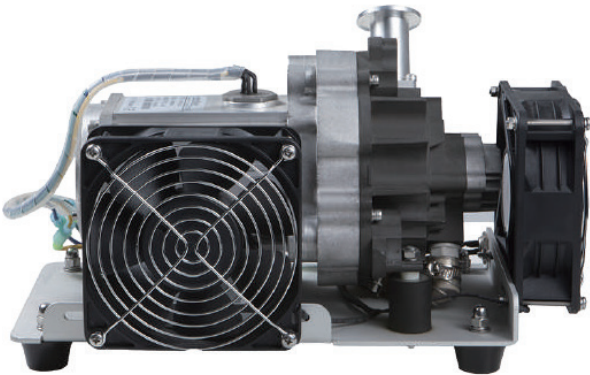
SOF-50



Model	SOF-E0-50	SOF-E1M-50
Pumping speed	50 L/min	
Ultimate Pressure	≤ 1mbar(100Pa)	≤ 0.5mbar(50Pa)
Power	≤ 150W	
Motor type	Brushless DC motor	
Voltage	DC 24V	
Maximum speed	5300RPM	
Maximum steam treatment capacity	Can remove a small amount of liquid water	
Maximum intake pressure	1.0 bar(Pressure value of the table)	
Maximum exhaust pressure	0.6 bar(Pressure value of the table)	
Noise (OEM/with shell)	60/56 dB(A)	
Weight (OEM)	2.0 kg	
Weight (with shell)	2.5 kg	
Size (OEM)	196×150×136 mm	
Size (with shell)	289×164×165 mm	
Inlet/outlet	G 1/4"	
Cooling method	forced air cooling	
Working environment temperature	-20℃—40℃	

SOF Miniature Dry Floating Scroll Vacuum Pump

SOF-100



Model	SOF-E0-100	SOF-E1-100	SOF-E2-100
Pumping speed	100L/min		
Ultimate Pressure	≤ 1 mbar (100Pa)	≤ 0.1mbar (10Pa)	≤ 0.03 mbar (3Pa)
Power	≤ 200W		
Motor type	Brushless DC motor		
Voltage	DC 48V		
Maximum speed	3600RPM		
Maximum steam treatment capacity	Can remove a small amount of liquid water		
Maximum intake pressure	1.5 bar(Pressure value of the table)		
Maximum exhaust pressure	1 bar(Pressure value of the table)		
Noise (OEM/with shell)	60/55 dB(A)		
Weight (OEM)	7.5 kg		
Weight (with shell)	8.5 kg		
Size (OEM)	324×215×206mm		
Size (with shell)	383×220×237mm		
Inlet/outlet	KF-25 or G 3/8"		
Cooling method	forced air cooling		
Working environment temperature	-20℃—40℃		

EV Molecular Vaccum Pump

EV-650ZF/EV-650ZF/EV-1300Z/EV-1300ZF/EV-2000Z/EV-2000ZF



Model		EV-650Z EV-650ZF		EV-1300Z EV-1300ZF		EV-2000Z EV-2000ZF	
Inlet Flange (mm)		150 CF	160 ISO-K	200 CF	200 ISO-K	250 CF	250 ISO-K
Outlet Flange (mm)		40 KF		40KF		50KF	
The flange of protective air (anticorrosive pump)		16KF		16KF		16KF	
Pumping Rate (L/S)		650		1300		2000	
Compression Ratio	N ²	>10 ⁹		>10 ⁹		>10 ⁹	
	H ²	>1X10 ⁴		>1X10 ⁴		>1X10 ⁴	
Ultimate Pressure (Pa)		<2X10 ⁻⁷	<5X10 ⁻⁷	<8X10 ⁻⁸	<5X10 ⁻⁷	<8X10 ⁻⁸	<5X10 ⁻⁷
Rated Speed (rpm)		24000		24000		24000	
Bearing		Grease-lubricated Ceramic Bearing		Grease-lubricated Ceramic Bearing		Grease-lubricated Ceramic Bearing	
Vibration		≤ 0.1 μm		≤ 0.1 μm		≤ 0.1 μm	
Starting Time (min)		<5		<5		<5	
Suggested rotary pump		4-8 L/S		8-15 L/S		8-15 L/S	
Cooling Method		Water(Air) Cooling		Water(Air) Cooling		Water(Air) Cooling	
Installation Mod		Any position		Any position		Any position	
Weight (kg)		≈ 24		≈ 29		≈ 35	

EV-300Z/300ZF



Model	EV-300Z	
	EV-300ZF	
Inlet Flange (mm)	100 CF	100 ISO-K
Outlet Flange (mm)	25 KF	
The flange of protective air (anticorrosive pump)	16KF	
Pumping Rate (L/S)	300	
Compression Ratio	N ²	>10 ⁸
	H ²	>1X10 ³
Ultimate Pressure (Pa)	<8X10 ⁻⁷	<8X10 ⁻⁷
Rated Speed (rpm)	33000	
	Grease-lubricated	
Bearing	Ceramic Bearing	
Vibration	≤ 0.1 μm	
Starting Time (min)	<3.5	
Suggested rotary pump	2L/S	
Cooling Method	Water(Air) Cooling	
Installation Mod	Any position	
Weight (kg)	≈ 11	

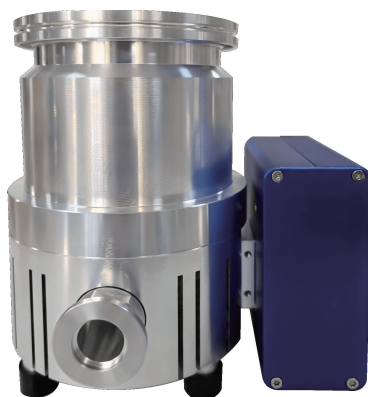
EV Molecular Vaccum Pump

EV3600/EV4000



Model		EV3600	EV4000
Inlet Flange (mm)		400 ISO - K	400 ISO - K
Outlet Flange (mm)		100 ISO - K	100 ISO - K
Pumping Rate (L/S)		3600	4000
Compression Ratio	N ²	>10 ⁸	>10 ⁸
	H ²	>6X10 ²	>6X10 ²
Ultimate Pressure (Pa)		<2X10 ⁻⁶	<2X10 ⁻⁶
Rated Speed (rpm)		13500	15000
Vibration		≤ 0.15 μm	≤ 0.15 μm
Starting Time (min)		<10	<10
Stop Time (min)		<20	<20
Suggested rotary pump		30-70 L/S	30-70 L/S
Cooling Method		Water-cooling	Water-cooling
Temperature of Water Cooling(°C)		≤ 20	≤ 20
The flow of water cooling (L/min)		1	1
Pump Body Baking Temperature		<90°C	<80°C
Installation Mod		Vertical ±5°	Vertical ±5°
Weight (kg)		≈ 100	≈ 100

EV80



Model	EV80
Control interface	RS-485, I/Oport
Maximum allowed radial magnetic field	3.8 mT
Cooling method	Air
Cooling type	convection
Start Time	<2min
Sound pressure level	≤ 48 decibel
Installation direction	any direction
Operating voltage: V DC	24 (± 5 %) V DC
Air release interface	M20X1.5
Maximum power consumption	110 W
Ultimate pressure	< 5· 10 ⁻¹⁰ mbar
Hydrogen flow rate at final speed	15.3 mbar l/s
Nitrogen flow rate at final speed	1.3 mbar l/s
Helium gas flow rate at final speed	48 l/s
Hydrogen compression ratio	1.4 · 10 ⁵
Helium gas flow rate at final speed	2.7 mbar l/s
Helium compression ratio	1.3· 10 ⁷
Helium pumping rate	58 l/s
Argon gas flow rate at final speed	0.54 mbar l/s
Argon gas pumping rate	66 l/s
Compression ratio of argon gas	> 1· 10 ¹¹
Nitrogen compression ratio	> 1· 10 ¹¹
Pumping speed for nitrogen	6 7 l/s
Electronic drive unit	integrated
Maximum current	8 A
Rotating speed± 2 %	90,000 rpm
The speed can be changed	20 – 100 %
Bearing	Composite
Connection flange (inlet)	DN 63 CF DN 63 ISO-K DN 40 ISO-KF
Connection flange (outlet)	DN 16 ISO-KF
Recommended starting pressure	≤ 3mbar
Weight	3.6 KG