

Products and systems



Wechat official account

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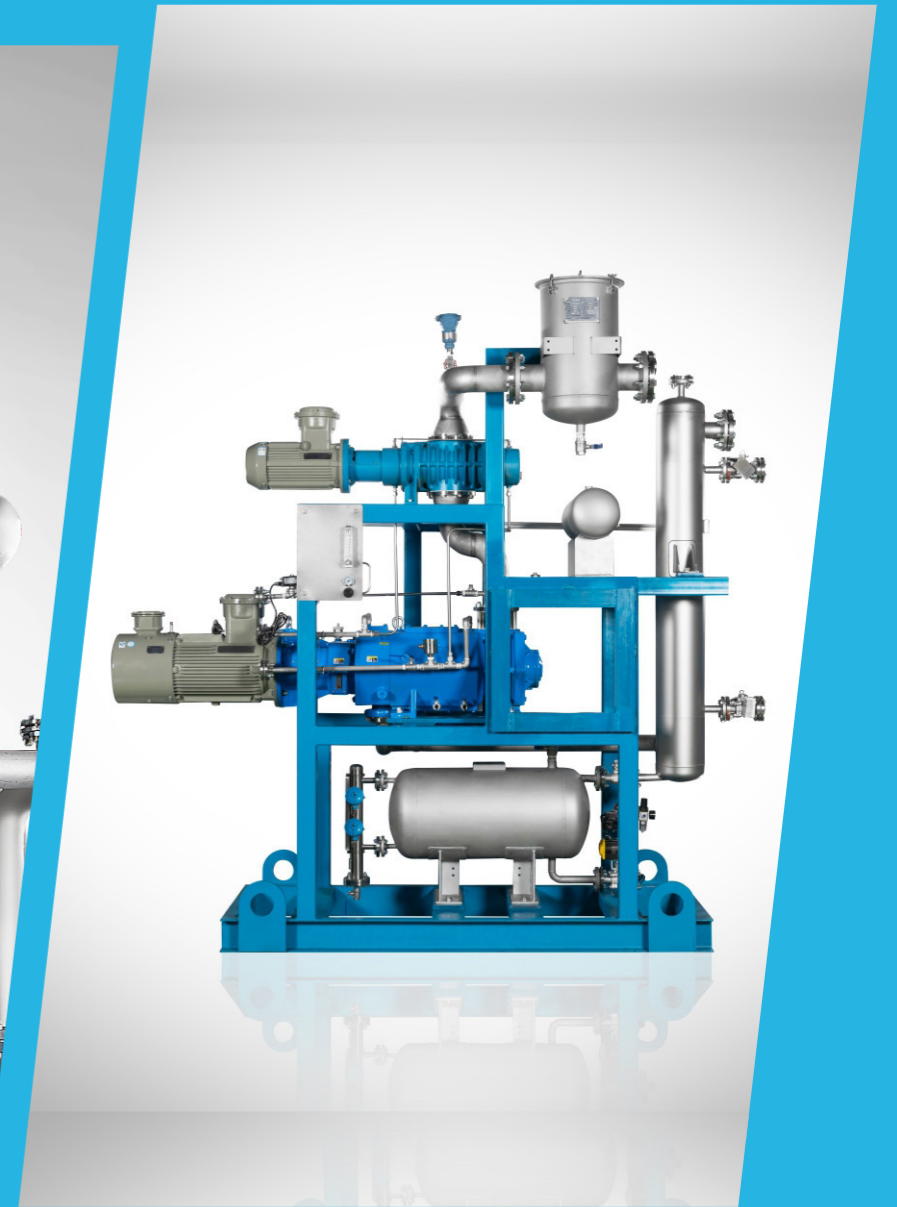
ABOUT US

Vacculex was founded in 1908 and kept specializing in vacuum research. vacculex vacuum products and systems are dedicated to the top products in the global vacuum market.

For hundred of years, vacculex vacuum products and systems have been serving chemical, pharmaceutical, food & beverage, agriculture, power & energy etc. market applications for a long time, have processed flammable, explosive, highly toxic, polymeric and more complex gases. Generations of Vacculex people work hard for the belief of "vacuum for a better life".

Our products include: Dry screw vacuum pumps with zero leakage, precise temperature control, patented structure anti-condensation, internal screw cooling; Roots vacuum pumps with zero leakage, high exhaust temperature, high differential pressure, high performance; Two-stage liquid ring vacuum pump with higher pumping speed and better vacuum degree than single-stage, anti-cavitation, high-quality; Ultra-quiet vertically installed slide valve vacuum pump suitable for harsh working conditions, three-cylinder balanced design (no need anchor bolts fixing); Single and two-stage rotary vane vacuum pump; Dry screw vacuum system; Roots screw vacuum system; Liquid ring vacuum system; Liquid ring roots vacuum system; Slide valves roots vacuum system and Rotary vane roots system.

VACCUM FOR A BETTER LIFE



Vaccum For A Better Life

Service Market



Chemical



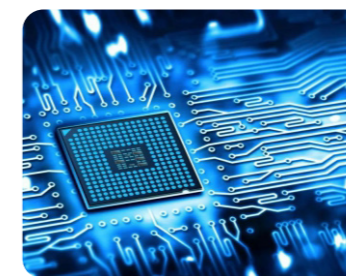
Food



Pharmaceutical



Steel



Semiconductor



Clean Energy

Mission:

Vacuum for a better life

The markets vacculex serve are the basic markets that sustain people's lives with steady long-term growth and significant contribution to our lives. Our products are based on reliability, durability and longevity, and we continue to innovate to meet the demanding needs of our customers in applications that continue to change.

Vision:

To be a world leading enterprise in vacuum solutions field.

As an exceptional group driven by outstanding employees, guided by our mission vacuum for a better life, we will work together in a process of continuous improvement to

- Create an exceptional company
- Build healthy growing family
- Make great impact on the surroundings

Value:

The values we espouse are the cornerstone of achieving our missions and visions.

Integrity and dedication: Keeping promises and satisfying customer needs. We insist on the persistent pursuit of professionalism and strive for excellence in doing every little thing well.

Continuous innovation: Paying attention to the challenges faced by our customers' business, listening to their real needs, providing high-quality products and services and innovative solutions through continuous improvement in manufacturing process, technology R&D, and service process, to help our customers keep improving their business and winning the market.

Teamwork: Teamwork towards success, we respect each member, we collaborate with each other to grow together and achieve extraordinary business.

Win-win value: Realizing the personal value of our employees in the process of creating value for our customers, creating value for the world around us, to achieve a win-win situation for customers, company, individuals and society.

Product Picture



VSP Dry Screw Vacuum Pump



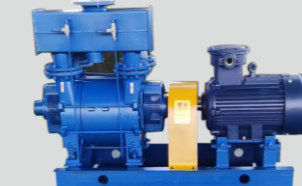
MB Roots Vacuum Pump



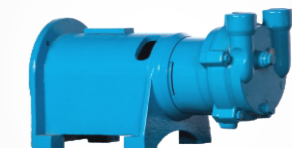
VLRC Liquid Ring Vacuum Pump



B Liquid Ring Vacuum Pump



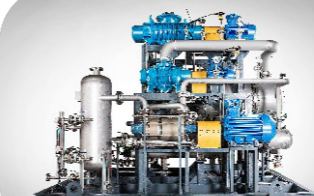
KLRPE Liquid Ring Vacuum Pump



KLRPV Liquid Ring Vacuum Pump



RB Roots Blower



Non-standard Units



Standard Units

VACCUM FOR A BETTER LIFE

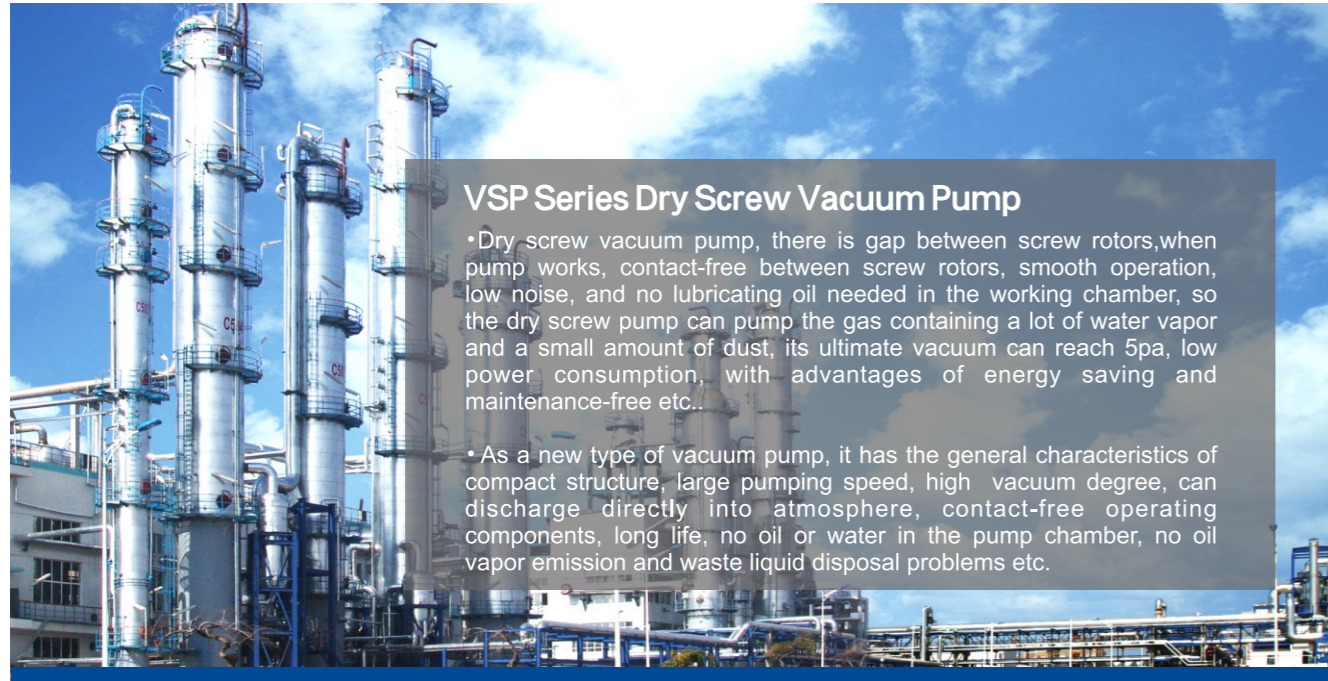
CATALOGUE



- 01 VSP Series Dry Screw Vacuum Pump
- 03 MB Series Roots Vacuum Pump
- 06 RB Series Roots Blower
- 09 B Series Liquid Ring Vacuum Pump
- 10 VLRC Series Liquid Ring Vacuum Pump
- 12 KLRPE Series Liquid Ring Vacuum Pump
- 15 KLRPV Series Liquid Ring Vacuum Pump
- 17 Non-standard Units
- 19 Standard Units

VACCULEX

Product Introduction



VSP Series Dry Screw Vacuum Pump

• Dry screw vacuum pump, there is gap between screw rotors, when pump works, contact-free between screw rotors, smooth operation, low noise, and no lubricating oil needed in the working chamber, so the dry screw pump can pump the gas containing a lot of water vapor and a small amount of dust, its ultimate vacuum can reach 5pa, low power consumption, with advantages of energy saving and maintenance-free etc.

• As a new type of vacuum pump, it has the general characteristics of compact structure, large pumping speed, high vacuum degree, can discharge directly into atmosphere, contact-free operating components, long life, no oil or water in the pump chamber, no oil vapor emission and waste liquid disposal problems etc.

Product Characteristics

- Variable pitch, high ultimate pressure, large pumping capacity and fast exhaust.
- Energy-saving design, 30% reduction in power consumption.
- Special profile design, few medium gas condensation.
- Spiral jacket cooling, low exhaust temperature, no carbonization, anti-seize, long service life.
- Internal no oil or water, no waste oil wastewater treatment, facilitating solvent recovery.
- Configurable gas seal, inlet purging, steam cleaning, solvent cleaning.
- Corrosion-resistant coating treatment for flow parts, strong anti-corrosion ability.



Typical Application

Oil and gas recovery, solvent recovery, API, DPC (diphenyl carbonate), DMC (dimethyl carbonate), VOC exhaust gas recovery, aerospace, iron and steel metallurgy, vacuum high-speed rail.



Phenolic Resin



PBAT (thermoplastic biodegradable plastic)

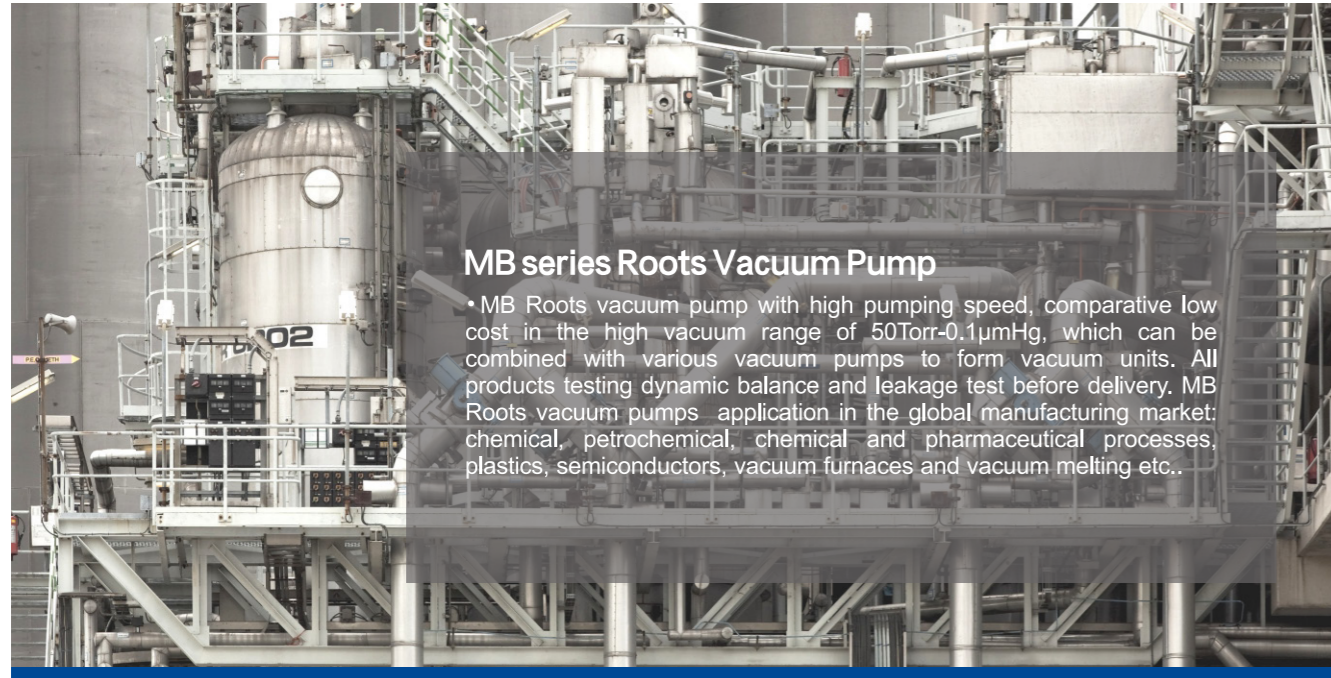


Waste oil recovery

Table Of Performance Parameters

Model	Unit	VSP150		VSP200		VSP300		VSP400		VSP800		VSP1000		VSP1500		VSP3000	
		50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Exhaust Volume	m ³ /h	110	130	160	200	250	300	330	400	660	800	825	1000	1250	1500	2250	2700
	L/s	30.5	36.1	44.4	55.5	69.4	83.3	91.6	111.1	183.3	222.2	229.2	277.8	347.2	416.6	625	750
Ultimate Vacuum	Torr	7.5 × 10 ⁻²															
	Pa	10															
Motor Power	Kw	2.2	4	5.5	5.5	7.5	7.5	7.5	11	15	18.5	18.5	22	30	37	37	55
Power Consumption 7.5 Torr (0.001mpa) Working Condition	Kw	1.8	3.3	3.2	4.4	4.8	5.9	6.2	6.9	10.4	12.4	11.8	14.2	24.7	30.4	30.6	45.2
Rotation Speed	rpm	3000	3600	2900	3500	2900	3500	2900	3500	2900	3500	2900	3500	1450	1750	1450	1750
Exhaust Method		Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust	Side Exhaust/ Bottom Exhaust
Inlet Connection	JIS 10k	JIS40	JIS40	JIS40	JIS40	JIS50	JIS50	JIS65	JIS65	JIS100	JIS100	JIS100	JIS100	JIS125	JIS125	JIS150	JIS150
Exhaust Connection	JIS 10k	JIS40	JIS40	JIS40	JIS40	JIS40	JIS40	JIS50	JIS50	JIS65	JIS65	JIS65	JIS65	JIS80	JIS80	JIS100	JIS100
Cooling Water Flow	l/min	5 ~ 10		5 ~ 10		10 ~ 15		10 ~ 15		15 ~ 20		15 ~ 20		30 ~ 40		40 ~ 50	
Cooling Water Connection	NPT	NPT3/8		NPT1/2		NPT1/2		NPT1/2		NPT1/2		NPT1/2		NPT 1		NPT 1	
Gear Oil Circulation Volume	l/min	1		1		2		2		2.5		3		8		10	
Seal Purge Gas	l/min	5 ~ 15						15 ~ 25									
Total Length	mm	711		760		940		977		1143		1240		1632		1844	
Total Height	mm	275		300		330		365		410		410		520		672	
Width (Bottom Exhaust)	mm	286		295		376		400		460		460		640		754	
Pump Weight	Kg	155		250		340		450		580		750		1600		2500	

Product Introduction



MB series Roots Vacuum Pump

• MB Roots vacuum pump with high pumping speed, comparative low cost in the high vacuum range of 50Torr-0.1μmHg, which can be combined with various vacuum pumps to form vacuum units. All products testing dynamic balance and leakage test before delivery. MB Roots vacuum pumps application in the global manufacturing market: chemical, petrochemical, chemical and pharmaceutical processes, plastics, semiconductors, vacuum furnaces and vacuum melting etc..

Product characteristics

- Five-point bearing design, double oil tanks, high stability.
- Nitrogen gas barrier to block gas from entering the oil tank; prolonging service life.
- Suitability for high temperature, high differential pressure and high vacuum environments, robust design, high reliability.
- Standard materials and various coatings available.
- Internal coating protection against corrosion, especially suitable for petrochemical, chemical and pharmaceutical industries.
- Optional single-point mechanical seal, oil slinger ring seal, eliminating cross contamination, reducing oil consumption.
- Optional five-point mechanical seal, labyrinth seal, completely eliminating cross-contamination, reducing oil consumption.



Typical Application

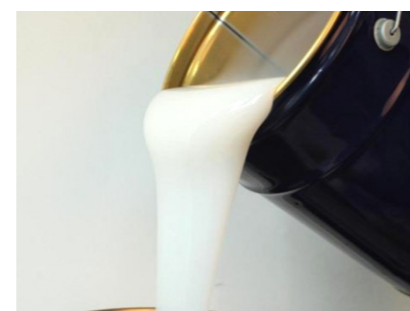
PC (polycarbonate board), PBAT (thermoplastic biodegradable plastic), flavors and fragrances, belt drying, molecular distillation



Abs Plastic



Ps Polystyrene Resin



Organic Silicon

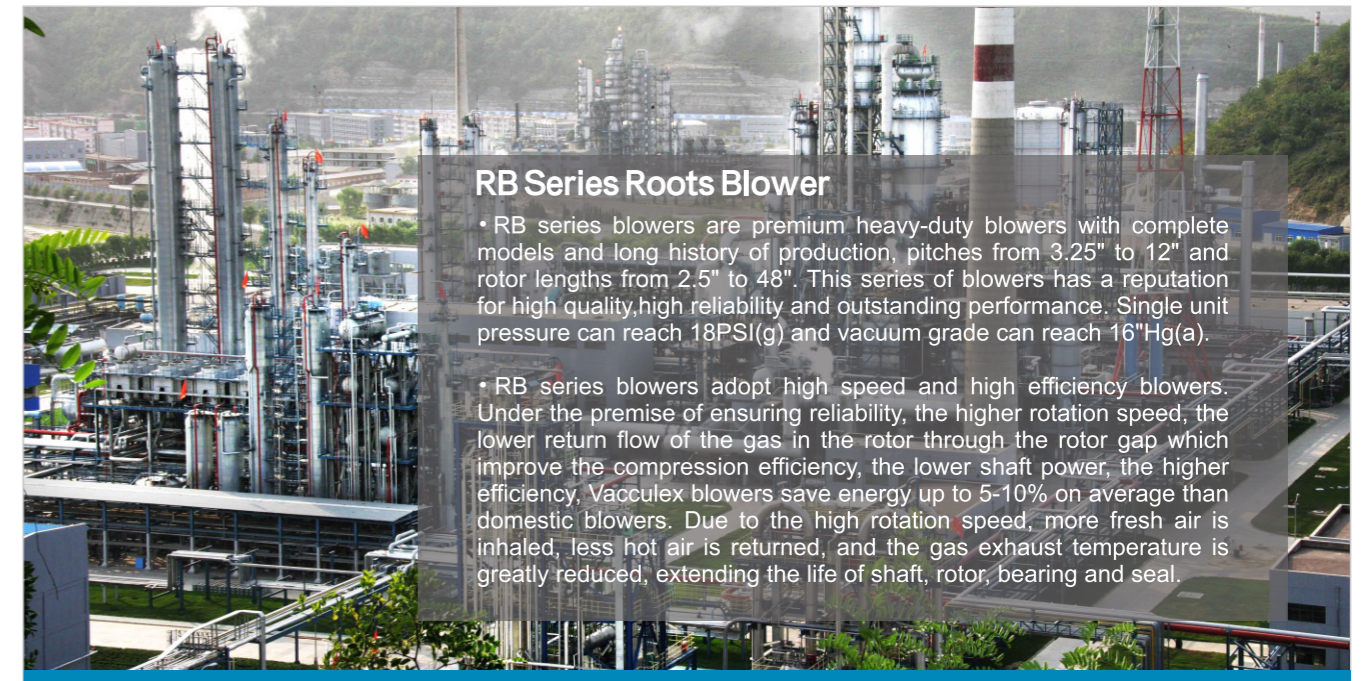
Table Of Performance Parameters

Model	Unit	MB100	MB200	MB400	MB540	MB720	MB850	MB1200	MB1600	MB2000	MB2700
Max. Pumping Speed	m ³ /h	170	340	680	920	1220	1450	2040	2720	3400	4590
	L/s	47	94	189	256	339	403	567	756	944	1275
Nominal Pumping Speed	m ³ /h	135	270	540	740	980	1100	1640	2190	2720	3700
	L/s	38	75	150	206	272	306	456	608	756	1028
Ultimate Full Pressure	Torr	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴
	Pa	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Motor Power	Kw	1.5	1.5	2.2	4	4	7.5	7.5	7.5	7.5	7.5
Suggested Rotation Speed	rpm	1450	2900	2900	2900	2900	2900	2900	2900	2900	2900
Max. Rotation Speed	rpm	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Inlet Flange	ANSI	3"	3"	4"	4"	4"	5"	6"	6"	8"	10"
Outlet Flange	ANSI	3"	3"	4"	4"	4"	5"	6"	6"	8"	10"
Cooling Water Flow	l/min (15°C)	0.8	0.8	0.95	0.95	1.5	1.5	1.9	1.9	1.9	2.8
Cooling Water Connection		1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Lubricant Volume	L	0.95	0.95	0.95	1.42	1.42	3.79	3.79	3.79	3.79	3.79
Total Length	mm	608	608	708	682	758	750	855	930	1030	1185
Total Height	mm	260	260	260	305	305	400	400	400	400	400
Width	mm	285	285	285	337	337	432	432	432	432	432
Pump Weight	Kg	73	73	88	118	136	204	236	263	310	358

Table Of Performance Parameters

Model	Unit	MB2900	MB3600	MB4500	MB5400	MB7300	MB8000	MB10000	MB27000	MB60000
Max. Pumping Speed	m ³ /h	4930	6120	7820	9350	12400	16000	21600	47430	116380
	L/s	1369	1700	2172	2597	3444	4444	6000	13176	32328
Nominal Pumping Speed	m ³ /h	4750	5910	7560	5640	7500	12860	17380	39500	97000
	L/s	1319	1642	2100	1567	2083	3572	4828	10980	26940
Ultimate Full Pressure	Torr	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴	7.5 × 10 ⁻⁴
	Pa	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Motor Power	Kw	15	15	18.5	22	22	30	30	55	110
Suggested Rotation Speed	rpm	2900	2900	2900	1450	1450	1450	1450	1000	1000
Max. Rotation Speed	rpm	3000	3000	3000	2400	2400	1800	1800	1200	1200
Inlet Flange	ANSI	10"	12"	12"	14"	16"	18"	20"	24"	32"
Outlet Flange	ANSI	10"	12"	12"	14"	16"	18"	20"	24"	32"
Cooling Water Flow	l/min (15°C)	3.8	3.8	3.8	5.7	5.7	7.6	9.5	33	50
Cooling Water Connection		1/4 NPT	1/4 NPT	1/4 NPT	3/8 NPT	3/8 NPT	3/4 NPT	3/4 NPT	G 1	G 1
Lubricant Volume	L	7.5	7.5	7.5	30	30	38	38	60	100
Total Length	mm	1280	1380	1507	1562	1788	2200	2508	2154	3039
Total Height	mm	552	552	552	670	670	745	745	1320	1640
Width	mm	585	585	585	782	782	935	935	1420	1800
Pump Weight	Kg	578	658	726	1162	1474	2680	3110	5070	10400

Product Introduction



Product characteristics

- Five-point bearing design improves the bearing force condition during belt driving.
- Double oil tank design provides excellent cooling and lubrication to the bearings at both ends, ensuring low operating temperatures
- Synchronous gears mounted on the drive side, eliminating torsional stresses along the drive shaft.
- Helical gear design to ensure synchronous, silent and reliable operation.
- Multiple seal forms available: lip seal, mechanical seal and labyrinth seal.
- Optional gas-tight design to ensure that the outlet gas is completely oil-free.



Typical Application

Tail gas conveying, MVR (steam recompression), material handling, double Roots standard unit



Tail gas conveying



Steam recompression



Material handling

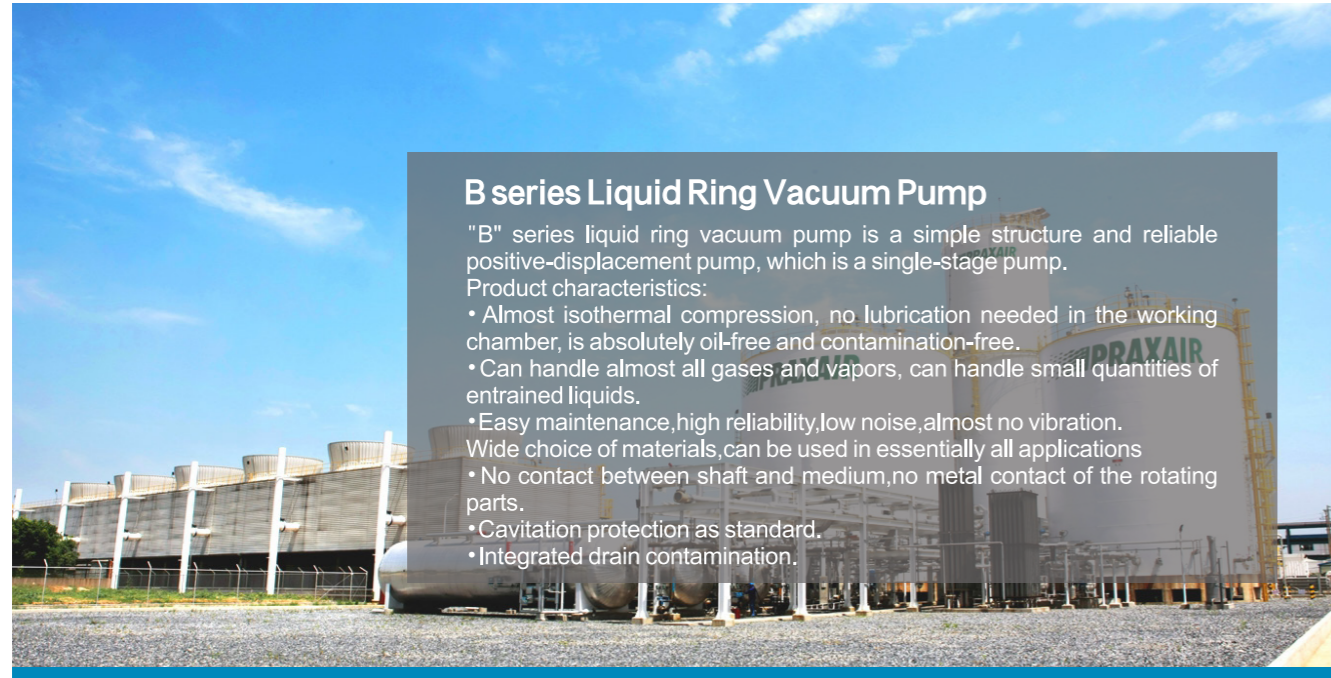
Table Of Performance Parameters

Model	Unit	RB3206	RB3210	RB4009	RB4012	RB5507	RB5511	RB5514
Flow Range	m ³ /h	36-374	63-626	83-845	148-1159	168-1350	258-1991	833-2587
Shaft Power	kw	0.8-3.0	0.9-21	1.3-34	1.5-38	1.9-52	2.2-62	2.6-71
Max. Rotation Speed	rpm	4000	4000	4000	4000	3800	3800	3800
Max. Vacuum Degree	mbar	508	508	576	508	576	576	508
Max. Pressure	mbar(g)	1034	1034	1241	1034	1241	1172	896
Inlet Flange	ANSI	3"	4"	4"	4"	5"	6"	6"
Outlet Flange	ANSI	3"	4"	4"	4"	5"	6"	6"
Cooling Water Flow	l/min (15°C)	0.8	0.95	0.95	1.5	1.5	1.9	1.9
Cooling Water Connection		1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Lubricant Volume	L	0.95	0.95	1.42	1.42	3.79	3.79	3.79
Total Length	mm	608	708	682	758	750	855	930
Total Height	mm	260	260	305	305	400	400	400
Width	mm	285	285	337	337	432	432	432
Pump Weight	Kg	73	88	118	136	204	236	263

Table Of Performance Parameters

Model	Unit	RB5518	RB7017	RB7021	RB7026	RB9027	RB1236	RB1248
Flow Range	m ³ /h	595-3335	1022-4772	1331-5913	1788-7334	1054-9036	1311-15411	2217-15764
Shaft Power	kw	3.0-70	5.4-169	6.2-182	1.3-180	6.0-276	9.0-287	11-199
Max. Rotation Speed	rpm	3800	3000	3000	3000	2400	1800	1400
Max. Vacuum Degree	mbar	508	508	508	508	508	406	339
Max. Pressure	mbar(g)	689	1034	1034	827	1034	620	413
Inlet Flange	ANSI	8"	10"	12"	12"	14"	18"	20"
Outlet Flange	ANSI	8"	10"	12"	12"	14"	18"	20"
Cooling Water Flow	l/min (15°C)	1.9	3.8	3.8	3.8	5.7	7.6	9.5
Cooling Water Connection		1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	3/8 NPT	3/8 NPT	G 1/4
Lubricant Volume	L	3.79	7.5	7.5	7.5	30	38	38
Total Length	mm	1030	1280	1380	1507	1562	2200	2508
Total Height	mm	400	552	552	552	670	745	745
Width	mm	432	585	585	585	782	935	935
Pump Weight	Kg	310	578	658	726	1162	2680	3110

Product Introduction

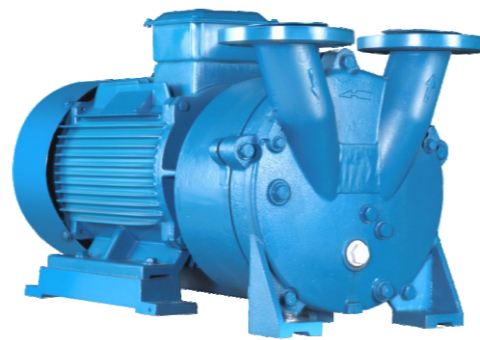


B series Liquid Ring Vacuum Pump

"B" series liquid ring vacuum pump is a simple structure and reliable positive-displacement pump, which is a single-stage pump.
Product characteristics:

- Almost isothermal compression, no lubrication needed in the working chamber, is absolutely oil-free and contamination-free.
- Can handle almost all gases and vapors, can handle small quantities of entrained liquids.
- Easy maintenance, high reliability, low noise, almost no vibration.
- Wide choice of materials, can be used in essentially all applications
- No contact between shaft and medium, no metal contact of the rotating parts.
- Cavitation protection as standard.
- Integrated drain contamination.

Model	unit	B30	B55	B95	B130	B155	B255	B330	B430	
Pumping Volume (50Hz/60Hz)	m ³ /h	25/30	50/60	70/85	100/120	130/155	210/250	270/320	370/445	
Motor Power (50Hz/60Hz)	kW	0.75/1.5	1.5/2.2	2.2/3.0	3.0/4.0	4.0/5.5	5.5/7.5	7.5/11.0	11.0/15.0	
Synchronous Rotation Speed	RPW	2900	3500			1450	1750			
Max. Back Pressure	bar	0.3								
Max. Allowable Differential Pressure	bar	1.1								
Hydrostatic Test (Gauge Pressure)	bar	1			3					
Moment Of Inertia Of Rotating Parts When Full Water	kg·m ²	0.003	0.0095	0.035	0.053	0.069	0.097	0.14	0.21	
Noise At 80 mbar Inlet Pressure	dB(A)	68	69	72			78			
Max. Suction Temperature	°C				200		100			
Max. Suggested Temperature of Operating Fluid As Water	°C	40								
Max. Allowable Temperature For Other Suitable Operating Fluid	°C	80								
Max. Kinematic Viscosity	mm ² /s	4								
Max. Density	kg/m ³	1200								
Volume To Shaft Centerline	liter	0.3	0.4	2.4	2.8	3.2	4.0	4.2	4.7	



Typical Application

PC (polycarbonate board), PBAT (thermoplastic biodegradable plastic), flavors and fragrances, belt drying, molecular distillation



ABS plastic



PS polystyrene resin



Organic silicon

Product Introduction



VLRC Series Liquid Ring Vacuum Pump

- VLRC series liquid ring vacuum pump is one of the longest used Vacculex vacuum pumps, is ideal for pumping moist mixed gases as well as for pumping tiny droplet gases. The pump have standard material configurations, all cast iron or 316SS stainless steel options, usually optional water cooling or air cooling system.
- Complete engineering system solutions include instrumentation, control devices, piping and valves, self-circulating systems, and operating fluid recirculation systems for selection.
- VLRC liquid ring vacuum pumps can pump at pressures as low as 4 Torr (5.3 mbar). However, low pressure operating performance can be limited by the saturated vapor pressure of the operating fluid, which can be water, oil or process fluid.

Product Characteristics

- Two-stage compression, each stage impeller with small compression ratio.
- Can achieve larger maximum differential pressure.
- Can achieve higher exhaust back pressure, with higher reliability during operation.
- Small temperature rise of operating fluid and less influence of water temperature on inlet pressure and suction volume.
- More effective avoidance of cavitation by two-stage compression, long service life, low vibration and noise.
- Pumping speed curve is flat, its efficiency of inlet pressure can keep about 90% under 50 torr, while the efficiency of single-stage pumps drops to 50%. It is very favorable for roots pump operation when form a unit with the roots pump.



Typical Application

PC (polycarbonate board), PBAT (thermoplastic biodegradable plastic), flavors and fragrances, belt drying, molecular distillation



ABS Plastic



PS Polystyrene Resin



Organic Silicon

Table Of Performance Parameters

Model	Unit	VLRC75		VLRC100		VLRC125		VLRC200		VLRC300		VLRC350		VLRC425		VLRC600		VLRC825		VLRC1000	
Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Max. Pumping Speed	m ³ /h	105	126	144	239	199	239	279	335	425	510	500	590	610	710	870	1000	1250	1400	1588	1700
Rotation Speed	r/min	1450	1750	1450	1750	1450	1750	1450	1750	1450	1750	1450	1750	1450	1750	975	1175	975	1175	975	1175
Matching Power	kW	4	4	5.5	5.5	7.5	7.5	11	11	15	18.5	15	22	18.5	30	30	45	37	55	45	75
Max. Back Pressure	bar	1.5										1.5									
Max. Allowable Differential Pressure Between Inlet And Outlet	bar	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.3	1.5	1.1	1.5	1.1	1.8	1.8	1.7	1.6	1.6	1.6	1.5	1.5
Hydrostatic Test (Gauge Pressure)	bar	3										3									
Moment Of Inertia Of Rotating Parts When Full Water	kg·m ²	0.05	0.05	0.06	0.06	0.09	0.09	0.16	0.16	0.32	0.32	0.38	0.38	1.57	1.57	2.23	2.23	2.65	2.65	2.65	2.65
Noise At 80 mbar Inlet Pressure	dB(A)	69	74	74	74	74	74	82	85	82	85	79	80	79	80	79	80	79	80	79	80
Max. Suction Temperature	Dry Gas	°C	120	120	120	120	120	120	120	200	200	200	200	200	200	200	200	200	200	200	200
	Saturated Gas	°C	93	93	93	93	93	93	93	100	100	100	100	100	100	100	100	100	100	100	100
Heat Exchanger Max.Pipe Resistance	bar	0.2										0.2									
Operating Fluid	Operating Fluid Max. Allowable Temperature	°C	100				80				80				80						
	Max. Viscosity	mm ² /s	90				90				90				90						
	Max. Density	kg/m ³	1200				1200				1200				1200						
	Liquid Volume To Shaft Centerline	liter	4	5.5	5.5	7	10	16	19	36	47	54	54	54	54	54	54	54	54	54	54
Liquid Consumption (Inlet Pressure 33 mbar)	15°C Operating Fluid	L/min	19	23	26	30	45	45	45	117	117	117	117	117	117	117	117	117	117	117	117
	15°C Operating Fluid+Cooling Water	L/min	38	45	53	60	90	90	90	234	234	234	234	234	234	234	234	234	234	234	234
Coolant Connection	''	G1/2	G3/4	G3/4	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1	G1
Inlet Connection		ANSI 1 1/2"	ANSI 1 1/2"	ANSI 1 1/2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"	ANSI 2"
Exhaust Connection	mm	40	40	40	50	50	50	50	50	65	65	65	65	65	65	65	65	65	65	65	65
Pump Shaft Center Height	mm	165	175	175	210	210	210	210	210	225	225	225	225	225	225	320	320	320	320	320	320
Total Length	mm	613	654	713	754	852	852	976	1042	1235	1385	1485	1485	1485	1485	1485	1485	1485	1485	1485	1485
Total Height	mm	321	406	406	486	486	573	573	573	573	573	573	573	573	573	776	776	776	776	776	776
Width	mm	302	324	324	429	429	429	429	429	395	395	395	395	395	395	590	590	590	590	590	590
Pump Weight	kg	91	104	116	163	184	228	250	250	485	620	690	690	690	690	690	690	690	690	690	690

Note: the parameters are based on the following working conditions: (1) Inspiratory medium: dry gas, 20 °C (2) Working fluid: water, 15 °C exhaust pressure: 1013mbar (atmospheric pressure) suction capacity is the flow under the pump inlet pressure, and the maximum fresh water consumption is the flow under the lowest inlet pressure.

Product Introduction

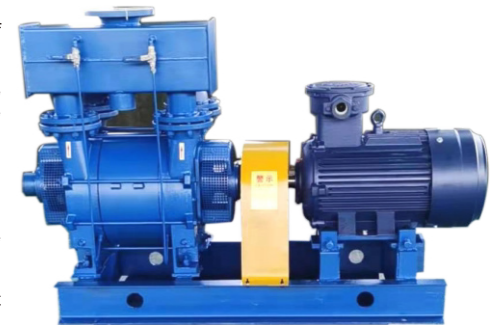


KLRPE Series Liquid Ring Vacuum Pump

• KLRPE series products are single-stage single-acting liquid ring vacuum pumps with the widest pumping range. As a single-stage single-acting structure form, this series vacuum pumps have the advantages of simple structure, easy maintenance, reliable operation and high efficiency skills.

Product Characteristics

- Using imported bearings, which ensure the precise positioning of the impeller of KLRPE vacuum pump and high stability during operation.
- Impeller materials are ductile iron casting or steel plate welding, guaranteeing the stability of impeller under various harsh working conditions and improving the service life of the vacuum pump.
- The pump body is all made of steel plate, improves service life of KLRPE vacuum pump.
- The belt pulley adopts standard high-precision tapered sleeve pulley, which is reliable in operation, easy to disassemble and has long belt service life.
- The coupling adopts standard high-strength elastic coupling, and the elastic element is made of polyurethane, with stable and reliable operation and long service life.



Typical Application

PC (polycarbonate board), PBAT (thermoplastic biodegradable plastic), flavors and fragrances, belt drying, molecular distillation



ABS Plastic



PS Polystyrene Resin



Organic Silicon

Table Of Performance Parameters

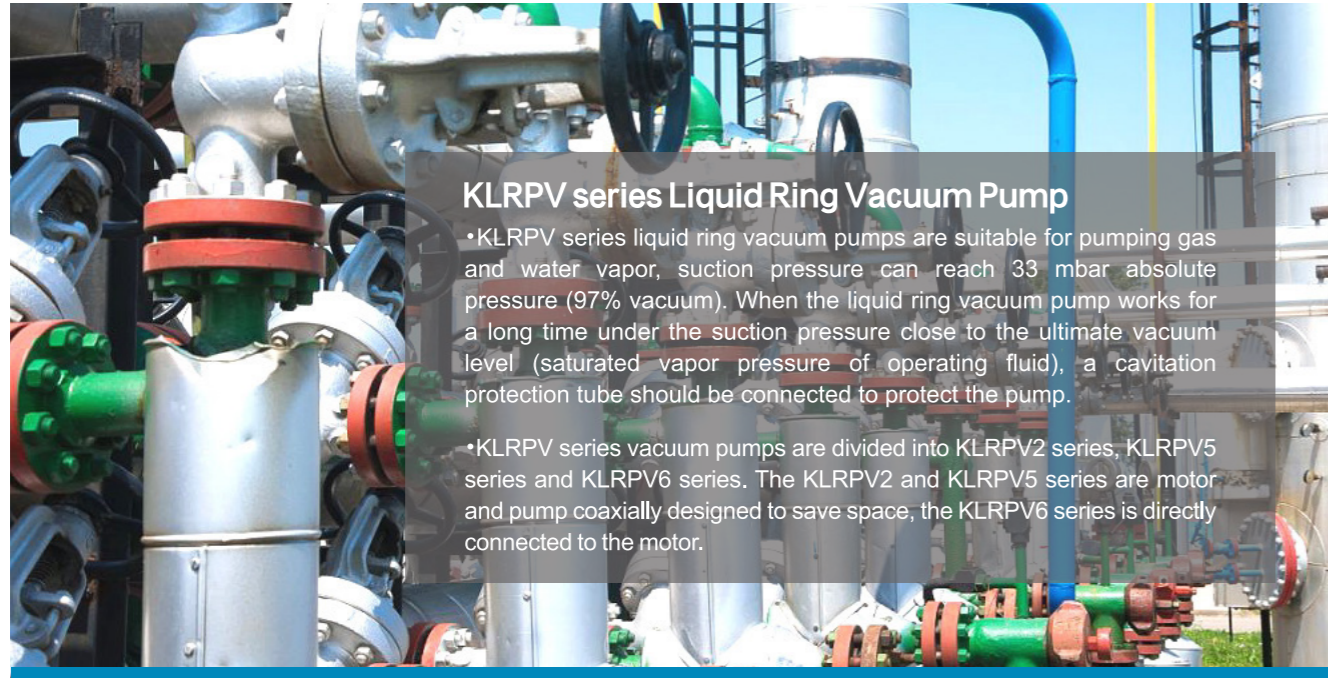
Model	Rotation Speed (Transmission Mode) r/min	Max. Shaft Power KW	Motor Power KW	Matching Motor 380V	Ultimate Vacuum Degree mbar	Max. Gas Volume		Pump Weight kg
						m ³ /h	m ³ /min	
KLRPE 3633	740(Direct connection)	98	110	Y315L2-8	33	4000	66.7	3200
	590(Direct connection)	65	75	Y315L2-10		3200	53.3	3200
	466(Belt)	48	55	Y250M-4		2500	41.7	2645
	521(Belt)	54	75	Y280S-4		2800	46.7	2805
	583(Belt)	64	75	Y280S-4		3100	51.7	2810
	657(Belt)	78	90	Y280M-4		3580	59.7	2925
	743(Belt)	99	132	Y315M-4		4000	66.7	3290
KLRPE 3653 KLRPE 3663	740(Direct connection)	102	132	Y355M1-8	160	4650	77.5	3800
	590(Direct connection)	70	90	Y355M1-10		3750	62.5	3800
	466(Belt)	55	75	Y280S-4		3150	52.5	2950
	521(Belt)	59	75	Y280S-4		3320	55.3	3000
	583(Belt)	68	90	Y280M-4		3700	61.2	3100
	657(Belt)	84	110	Y315S-4		4130	68.8	3300
	743(Belt)	103	132	Y315M-4		4650	77.5	3450
KLRPE 4233	590(Direct connection)	121	160	Y355L2-10	33	5300	88.3	4750
	390(Belt)	65	75	Y280S-4		3580	59.7	3560
	415(Belt)	70	90	Y280M-4		3700	61.7	3665
	464(Belt)	81	110	Y315S-4		4100	68.3	3905
	520(Belt)	97	132	Y315M-4		4620	77	4040
	585(Belt)	121	160	Y315L1-4		5200	86.7	4100
	620(Belt)	133	160	Y315L1-4		5500	91.7	4100
660(Belt)	152	185	Y315L2-4	5850	97.5	4240		
KLRPE 4253 KLRPE 4263	590(Direct connection)	130	160	Y355L2-10	160	6200	103.3	5000
	390(Belt)	75	90	Y280M-4		4180	69.7	3920
	435(Belt)	86	110	Y315S-4		4600	76.7	4150
	464(Belt)	90	110	Y315S-4		4850	80.8	4160
	520(Belt)	102	132	Y315M-4		5450	90.8	4290
	555(Belt)	115	132	Y315M-4		5800	96.7	4300
	585(Belt)	130	160	Y315L1-4		6100	101.7	4350
620(Belt)	145	185	Y315L2-4	6450	107.5	4450		
KLRPE 4833	330(Belt)	97	132	Y315M-4	33	5160	86	5860
	372(Belt)	110	132	Y315M-4		5700	95	5870
	420(Belt)	131	160	Y315L1-4		6470	107.8	5950
	472(Belt)	160	200	Y315L2-4		7380	123	6190
	530(Belt)	203	250	Y355M2-4		8100	135	6630
KLRPE 4853 KLRPE 4863	565(Belt)	234	280	Y355L1-4	160	8600	143.3	6800
	330(Belt)	100	132	Y315M-4		6000	100	5980
	372(Belt)	118	160	Y315L1-4		6700	111.7	6070
	420(Belt)	140	185	Y315L2-4		7500	125	6200
	472(Belt)	170	200	Y315L2-4		8350	139.2	6310
	530(Belt)	206	250	Y355M2-4		9450	157.5	6750
565(Belt)	235	280	Y355L1-4	10100	168.3	6920		

Note: the motor power selected above can work under most working conditions. If the pressure at the exhaust port is high (0.02-0.05mpa), the motor power shall be increased accordingly; If the shaft power corresponding to the actual working pressure of klrpe vacuum pump is small, it is also optional With the motor power close to the shaft rate, it can be more energy-saving.

Table Of Performance Parameters

Model	Rotation Speed (Transmission Mode) r/min	Max. Shaft Power KW	Motor Power KW	Matching Motor 380V	Ultimate Vacuum Degree mbar	Max. Gas Volume		Pump Weight kg
						m ³ /h	m ³ /min	
KLRPE 1811	1100(Belt)	7.2	11	Y160M-4	33	300	5	428
	1300(Belt)	9.2	11	Y160M-4		360	6	444
	1450(Direct connection)	10.8	15	Y160L-4		405	6.8	469
	1625(Belt)	13.2	15	Y160L-4		445	7.4	469
	1750(Belt)	14.8	18.5	Y180M-4		470	7.8	503
KLRPE 1822	1100(Belt)	8.3	11	Y160M-4	33	340	5.7	437
	1300(Belt)	10.5	15	Y160L-4		415	6.9	481
	1450(Direct connection)	12.5	15	Y160L-4		465	7.8	481
	1625(Belt)	15	18.5	Y180M-4		510	8.5	515
KLRPE 1831	1750(Belt)	17.2	22	Y180L-4	33	535	8.9	533
	1100(Belt)	10.6	15	Y160L-4		445	7.4	480
	1300(Belt)	13.6	18.5	Y180M-4		540	9	533
	1450(Direct connection)	16.3	18.5	Y180M-4		600	10	533
KLRPE 2421	1625(Belt)	19.6	22	Y180L-4	33	660	11	551
	1750(Belt)	22.3	30	Y200L-4		700	11.7	601
	970(Direct connection)	17	22	Y200L2-6		760	12.7	875
KLRPE 2431	790 (Belt)	14	18.5	Y180M-4	33	590	9.8	850
	880 (Belt)	16	18.5	Y180M-4		670	112	850
	1100(Belt)	22	30	Y200L-4		850	14.2	940
	1170(Belt)	25	30	Y200L-4		890	14.8	945
	1300(Belt)	30	37	Y225S-4		950	15.8	995
	970(Direct connection)	27	37	Y250M-6		1120	18.7	1065
KLRPE 3023	790 (Belt)	20	30	Y200L-4	33	880	14.7	995
	880 (Belt)	24	30	Y200L-4		1000	16.7	995
	1100(Belt)	33	45	Y225M-4		1270	21.2	1080
	1170(Belt)	37	45	Y225M-4		1320	22	1085
	1300(Belt)	45	55	Y250M-4		1400	23.3	1170
	740(Direct connection)	38	45	Y280M-8		1700	28.3	1693
KLRPE 3033	558 (Belt)	26	30	Y200L-4	33	1200	20	1460
	660 (Belt)	31.8	37	Y225S-4		1500	25	1515
	832 (Belt)	49	55	Y250M-4		1850	30.8	1645
	885 (Belt)	54	75	Y280S-4		2000	33.3	1805
	938 (Belt)	60	75	Y280S-4		2100	35	1805
KLRPE 3033	740(Direct connection)	54	75	Y315M-8	33	2450	40.8	2215
	560 (Belt)	37	45	Y225M-4		1750	29.2	1695
	660 (Belt)	45	55	Y250M-4		2140	35.7	1785
	740 (Belt)	54	75	Y280S-4		2450	40.8	1945
	792 (Belt)	60	75	Y280S-4		2560	42.7	1945
	833 (Belt)	68	90	Y280M-4		2700	45	2055
	885 (Belt)	77	90	Y280M-4		2870	47.8	2060
	938 (Belt)	86	110	Y315S-4		3020	50.3	2295

Product Introduction



KLRPV series Liquid Ring Vacuum Pump

•KLRPV series liquid ring vacuum pumps are suitable for pumping gas and water vapor, suction pressure can reach 33 mbar absolute pressure (97% vacuum). When the liquid ring vacuum pump works for a long time under the suction pressure close to the ultimate vacuum level (saturated vapor pressure of operating fluid), a cavitation protection tube should be connected to protect the pump.

•KLRPV series vacuum pumps are divided into KLRPV2 series, KLRPV5 series and KLRPV6 series. The KLRPV2 and KLRPV5 series are motor and pump coaxially designed to save space, the KLRPV6 series is directly connected to the motor.

Product characteristics

- Direct motor connection design, space saving, simple structure, easy maintenance, all equipped with cavitation protection tube connection.
- All KLRPV series use stainless steel impellers as standard, all KLRPV2 series use stainless steel discs/impellers.
- Unique flexible exhaust port design without over-compression ensures the best efficiency of the KLRPV series within its performance range.
- All use Y2 series motors with protection class IP54, IP55 (IP44 for ordinary) and insulation class F insulation (B insulation for ordinary).
- All adopt NTN, SKF or NSK imported bearings.
- KLRPV series liquid ring vacuum pumps can realize flexible seals all in PTFE, which can greatly extend the service life of vacuum pumps under harsh working conditions.



Typical Application

PC (polycarbonate board), PBAT (thermoplastic biodegradable plastic), flavors and fragrances, belt drying, molecular distillation



ABS Plastic



PS Polystyrene Resin



Organic Silicon

Table Of Performance Parameters

Model	Max. Gas Volume m ³ /h	Ultimate Vacuum Degree mbar(MPa)	Motor Power kW	Motor Explosion-proof Rating	Motor Protection Class	Rotation Speed r/min	Operating Fluid Flow L/min	Noise dB(A)	Weight kg
KLRPV2 180	27	33mbar (-0.098MPa)	1.1	Non explosion proof	IP54	2840	2	62	31
KLRPV2 181	52		1.5			2840	2	65	35
KLRPV2 210	80		3			2860	2.5	66	56
KLRPV2 211	110		4			2880	4.2	72	65
KLRPV2 180-Ex	27		1.1	dIIBT4	IP55	2840	2	62	39
KLRPV2 181-Ex	52		1.5			2840	2	65	45
KLRPV2 210-Ex	80		3			2860	2.5	66	66
KLRPV2 211-Ex	110		4			2880	4.2	72	77
KLRPV5 330	165		4	Non explosion proof	IP54	1440	6.7	63	103
KLRPV5 331	230		5.5			1440	8.3	68	117
KLRPV5 361	280		7.5			1440	10	69	149
KLRPV5 391	400		11			1460	15	73	205
KLRPV5 481	500		15			970	20	74	331
KLRPV6 330	165		4	dIIBT4	IP55	1440	6.7	63	153
KLRPV6 331	230		5.5			1440	8.3	68	208
KLRPV6 361	280		7.5			1440	10	69	240
KLRPV6 391	400	11	1460			15	73	320	
KLRPV6 481	500	15	970			20	74	446	

Note: 1 The performance parameters listed in the above table are obtained when the suction medium is saturated air at 20 °C, the working fluid temperature is 15 °C and the exhaust pressure is 1013mbar. The allowable performance difference is + - 10%.
 2. The working fluid flow listed in the table is the working fluid required for the circulation of some working fluid equipped with gas-water separator. If the working fluid is not recycled, the actual required working fluid flow is about twice that in the table.

Roots / Liquid Ring Vacuum Unit



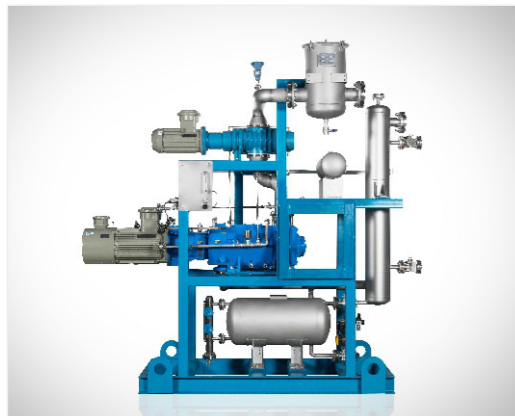
- Vacculex Roots/Liquid ring vacuum units are suitable for pumping moist gas mixtures at low pressures. The sealing operating fluid can be water, oil or process liquid. Systems with oil as the operating fluid can avoid corrosion and also avoid vaporization of the sealing fluid at higher temperatures. When the operating fluid is a process fluid, contamination of the process gas with water or oil can be avoided. Vacculex offers a wide range of two or three stage vacuum units, complete engineering system solutions including instrumentation, condensers, control devices, pipelines and valves, partial or complete operating fluid circulation systems, etc.

- Typical applications: ABS plastics, PS polystyrene resins, silicones, PC (polycarbonate board), PBAT (thermoplastic biodegradable plastics), flavors and fragrances, belt drying, molecular distillation.

Product Picture



Roots / Screw Vacuum Unit



- Vacculex Roots/Liquid ring vacuum units are suitable for pumping moist gas mixtures at low pressures. The sealing operating fluid can be water, oil or process liquid. Systems with oil as the operating fluid can avoid corrosion and also avoid vaporization of the sealing fluid at higher temperatures. When the operating fluid is a process fluid, contamination of the process gas with water or oil can be avoided. Vacculex offers a wide range of two or three stage vacuum units, complete engineering system solutions including instrumentation, condensers, control devices, pipelines and valves, partial or complete operating fluid circulation systems, etc.

- Typical applications: ABS plastics, PS polystyrene resins, silicones, PC (polycarbonate board), PBAT (thermoplastic biodegradable plastics), flavors and fragrances, belt drying, molecular distillation.

Product Picture



Roots Blower Unit



- Vacculex adopts high speed and high efficiency motor, for roots blower, under the premise of ensuring reliability, the higher the rotational speed, the lower the return flow of the gas in the rotor through the rotor gap which improve the compression efficiency, the lower the shaft power, the higher the efficiency, Vacculex blowers save energy up to 5-10% on average than domestic blowers.

- Due to the high speed, more fresh air is inhaled and less hot air is returned, the gas exhaust temperature is greatly reduced, extending the life of the shaft, rotor, bearing and seal.

- Typical applications: tail gas conveying, MVR (steam recompression), material conveying.

Product Picture



Semiconductor Dry Pump Unit



Compound system of semiconductor dry pump unit, high pumping capacity, high ultimate vacuum pumping degree, improving production efficiency, low operating cost, low energy consumption, low outlet temperature, optional side exhaust or bottom exhaust, no waste liquid discharge, small footprint, long service life.

- Zero pollution - pure dry design, zero pollution to the pumping medium
- Zero leakage - excellent seal design, zero leakage between oil tank and pump chamber
- Zero discharge - no oil and water in the flow channel, no waste oil and waste water discharge
- Zero installation - simple operation, easy to use, easy maintenance

Typical applications: semiconductor, photovoltaic, plasma, drying, coating, petrochemical, metallurgy, food.

Product Picture



Industrial Dry Pump Unit



The Industrial dry pump unit fully replace liquid ring vacuum pump single vacuum pump, complete system, multi-stage roots of the composite system, Vacculex provides you with a variety of different ways to combine, according to the the site needs, to provide you with the perfect solution.

Through five-point bearing design, double oil tank, improve stability; nitrogen gas barrier, block gas into the tank, prolong service life, internal coating protection, prevent corrosion, optional single-point mechanical seal, oil slinger ring mechanical seal, eliminate cross-contamination, reduce oil consumption.

Typical applications: plastic uptake industry, electronics industry, paper industry, paper tray industry, foam industry, textile industry, printing industry, photoelectric industry.

Product Picture



Certificate



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



National High-tech Enterprise