Жидкостно-кольцевые вакуумные насосы и компрессоры
2BE, 2BV, DLV, 2SK, SY/2SY, CL, AT/TC, LRC
Технические характеристики

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2BE4 Liquid Ring Vacuum Pump

Description: Suction Speed of the air/gas range from 1,200 to 19,000 ACFM (2,000 to 32,300 m³/h) .

1. The 2BE4 liquid ring vacuum pump performance efficiency have been optimized to deliver a 6-8% efficiency improvement over the previous 2BE models.

2. The 2BE4 flat sided liquid ring vacuum pump has a polyisoprene lined body, flexible inlet and discharge connections, and a large inspection port for improved performance and reliability.

3. Suction Speed of the air/gas range from 1,200 to 19,000 ACFM (2,000 to 32,300 m³/h) .

4. The 2BE4 pump is widely used to strictly environments like the paper, power, mining, and chemical process industries. etc. Any more details information, please feel free to check with EVP's sales for LRVPs.

Suction Capacity : 1,150 to 18,900 ACFM (1,950 to 32,100 m3/h)

Vacuum Range : 160mbar abs.

Shaft Seals : Stuffing box (standard)

Mechanical Seals (single acting / double acting) on request

Materials of Construction : Ductile iron, stainless steel,SS304, SS316L etc,

2BE1 Series Liquid Ring Vacuum Pump

Description: 2BE series liquid ring vacuum pumps are usually used to suction the gas without solid particle, undissolved and noncorrosive gas to generate vacuum and pressure in the closed container.

2BE series liquid ring vacuum pumps are usually used to suction the gas without solid particle, undissolved and noncorrosive gas to generate vacuum and pressure in the closed container. By changing the pump material, they can also be used to suction corrosive gas or use corrosive liquid as operating liquid. They are widely used in paper-making, chemical, petrification, light industry, pharmacy, instruments, metallurgy, construction, electronical appliance, coal-cleaning, mineral concentration, fertilizer, etc.

2BE liquid ring vacuum pump is single stage pump with simple structure. It's easy maintenance, reliable,efficient and energy-saving operation . They can run under tough working conditions with large drainage discharge and changing load impact. 2BE vacuum pumps adopt unique polytetrafluoroethylene valve plates (former liquid ring pumps use ball valves) for their exhausting systems. Each valve plate is covered on vents in outer side of a port plate and fixed by a stainless steel baffle at its other side. Curvature of the valve plate changes with inlet pressure so that pumping medium can be discharged when it reaches the inlet pressure. Such structure avoids over-compression in a vacuum system and automatically adjusts exhausting area to lower power consumption, thus a best operating efficiency can be obtained.

The key parts of 2BE series liquid ring vacuum pumps, such as distribution plate, impeller and pump shaft are simplified in structure with performance improved, thus it's very energy-saving.
Dynamic balance problem is radically solved because during impeller welding, blades are formed by one-step stamping with rational molded lines and all wheel hubs are processed. The impeller and

pump shaft combined by shrinkage interference fit perform reliably and smoothly. Blades of the impeller will obtain good ductility after the impeller is welded and processed by overall heat treatment, thus impact resistance and flexure resistance of the blades are fundamentally guaranteed the application under tough working condition with changing load impact.

The 2BE pumps are equiped with gas-water separators itself, Many position has the exhausting hole. It is very easy to connect with the vacuum system. What's more, the pump cover with inspeciton window which can regulate the gland packing of the shaft to adjust the impeller and distributoring plate.

All vacuum pumps will be subjected to strict inspections and tests in our testing center so as to guarantee their excellent, reliable and long lasting performances.

Model	**Speed (Driving mode)**	**Shaft power**	**Motor power**	**Ultimate vacuum**	**Max. capacity**		**Weight (excl. motor)**
	r/min	KW	380V	hpa	M³/hr	M³/min	kg
2BE1-102	1450 (direct) 1750 (V-belt)	6.0 8.0	Y132M-4-7.5 Y160M-4-11	33hpa (-0.097MPa)	246 290	4.1 4.8	110
2BE1-103	1450 (direct) 1750 (V-belt)	8.2 11.1	Y160M-4-11 Y160L-4-15	33hpa (-0.097MPa)	340 412	5.7 6.9	125
2BE1-152	1450 (direct) 1625 (V-belt) 1750 (V-belt)	12.5 15.0 17.2	Y160L-4-15 Y180M-4-18.5 Y180L-4-22	33hpa (-0.097MPa)	450 510 535	7.5 8.5 8.9	175
2BE1-153	1450 (direct) 1100 (V-belt) 1300 (V-belt) 1620 (V-belt) 1750 (V-belt)	16.3 10.6 13.4 19.6 22.3	Y180M-4-18.5 Y160L-4-15 Y180M-4-18.5 Y180L-4-22 Y200L-4-30	33hpa (-0.097MPa)	600 445 535 648 700	10.0 7.4 8.9 10.8 11.7	200

2BE1-202	980 (direct)	18.2	Y200L2-6-22	33hpa (-0.097MPa)	750	12.5	460
	790 (V-belt)	13.4	Y180M-4-18.5		590	9.8	
	880 (V-belt)	16.3	Y180M-4-18.5		670	11.2	
	1100 (V-belt)	23.8	Y200L-4-30		860	14.3	
	1170 (V-belt)	25.7	Y200L-4-30		888	14.8	
	1300 (V-belt)	30	Y225S-4-37		950	15.8	
2BE1-203	980 (direct)	29.5	Y250M-6-37	33hpa (-0.097MPa)	1080	18	530
	790 (V-belt)	21.2	Y200L-4-30		870	14.5	
	880 (V-belt)	24.8	Y200L-4-30		980	16.3	
	1100 (V-belt)	34	Y225M-4-45		1210	20.2	
	1170 (V-belt)	38	Y225M-4-45		1320	22.0	
	1300 (V-belt)	42	Y250M-4-55		1390	23.2	
2BE1-252	740 (direct)	38	Y280M-8-45	33hpa (-0.097MPa)	1700	28.3	870
	565 (V-belt)	23.7	Y200L-4-30		1200	20.0	
	660 (V-belt)	31.8	Y225S-4-37		1500	25.0	
	830 (V-belt)	45	Y250M-4-55		1770	29.5	
	885 (V-belt)	54	Y280S-4-75		2000	33.3	
	938 (V-belt)	60	Y280S-4-75		2100	35.0	
2BE1-253	740 (direct)	54	Y315M-8-75	33hpa (-0.097MPa)	2450	40.8	930
	565 (V-belt)	37.2	Y225M-4-45		1690	28.2	
	660 (V-belt)	45	Y250M-4-55		2100	35	
	740 (V-belt)	50.8	Y280S-4-75		2340	39	
	792 (V-belt)	60	Y280S-4-75		2560	42.7	
	820 (V-belt)	68	Y280M-4-75		2640	44	
	880 (V-belt)	75.1	Y280M-4-90		2780	46.3	
	940 (V-belt)	88	Y315S-4-110		3050	50.8	

2BE1-303	740 (direct)	98	Y315L2-8-110	33hpa (-0.097MPa)	4000	66.7	1700
	590 (direct)	65.5	Y315L2-10-75		3200	53.3	
	466 (V-belt)	48	Y250M-4-55		2520	42	
	530 (V-belt)	58	Y280S-4-75		2820	47	
	583 (V-belt)	64	Y280S-4-75		3100	51.7	
	660 (V-belt)	79.8	Y280M-4-90		3550	59.2	
	740 (V-belt)	96	Y315S-4-110		3840	64	
2BE1-305	740 (direct)	108	Y355M1-8-132	33hpa (-0.097MPa)	4520	75.3	1820
	590 (direct)	70	Y355M1-10-90		3750	62.5	
	490 (V-belt)	55	Y280S-4-75		3150	52.5	
	530 (V-belt)	61	Y280S-4-75		3380	56.4	
	583 (V-belt)	68	Y280M-4-90		3700	61.2	
	660 (V-belt)	90	Y315S-4-110		4090	68.1	
	740 (V-belt)	110	Y315M-4-132		4550	75.8	
2BE1-353	590 (direct)	121	Y355L2-10-160	33hpa (-0.097MPa)	5300	88.3	2300
	390 (V-belt)	63	Y280S-4-75		3580	59.7	
	425 (V-belt)	72	Y280M-4-90		3700	61.7	
	464 (V-belt)	85	Y315S-4-110		4100	68.3	
	530 (V-belt)	95	Y315M-4-110		4620	77.0	
	560 (V-belt)	110	Y315L1-4-132		5000	83.3	
	620 (V-belt)	133	Y315L1-4-160		5500	91.7	
	660 (V-belt)	152	Y315L2-4-185		5850	97.5	

2BE1-355	590 (direct) 390 (V-belt) 420 (V-belt) 464 (V-belt) 523 (V-belt) 590 (V-belt) 660 (V-belt)	136 75 80.8 95 113 136 182	Y355L2-10-160 Y280M-4-90 Y280-4-90 Y315S-4-110 Y315M-4-132 Y315L1-4-160 Y315L2-4-200	33hpa (-0.097MPa)	5700 4180 4260 4850 5230 6000 6510	95 69.7 71 80.8 87.1 100 108	2450
2BE1-403	330 (V-belt) 372 (V-belt) 420 (V-belt) 472 (V-belt) 530 (V-belt)	98 110 131 160 213	Y315M-4-132 Y315M-4-132 Y315L1-4-160 Y315L2-4-200 Y355M2-4-250	33hpa (-0.097MPa)	4860 5400 6470 7380 8100	81 90 107.8 123.0 135.0	3750
2BE1-405	330 (V-belt) 372 (V-belt) 420 (V-belt) 472 (V-belt) 530 (V-belt)	100 118 140 170 216	Y315M-4-132 Y315L1-4-160 Y315L2-4-185 Y315L2-4-200 Y355M2-4-250	33hpa (-0.097MPa)	6000 6700 7500 8350 9450	100.0 111.7 125.0 139.2 157.5	3900
2BE1-503	266(V-belt drive) 298(V-belt drive) 330(V-belt drive) 372(V-belt drive) 420(V-belt drive) 472(V-belt drive)	121 138 157 190 236 300	132 160 185 220 280 355	33 (-0.097MPa)	6500 7220 8100 9240 10460 11660	108.3 120.3 134.8 154 174.3 194.2	4880

2BE3 Series Liquid Ring Vacuum Pump

Description: The raw materials have been strictly tested with spectrum analysis, hardness testing, metallographic analysis, performance testing and etc.

2BE3 series liquid ring vacuum pumps are usually used to suction the gas without solid particle, undissolved and noncorrosive gas to generate vacuum and pressure in the closed container. By changing the pump material, they can also be used to suction corrosive gas or use corrosive liquid as operating liquid. They are widely used in paper-making, chemical, petrification, light industry, pharmacy, instruments, metallurgy, construction, electronical appliance, coal-cleaning, mineral concentration, fertilizer, etc.
2BE3 liquid ring vacuum pump is single stage pump with simple structure. It's easy maintenance, reliable,efficient and energy-saving operation . They can run under tough working conditions with large drainage discharge and changing load impact. 2BE3 vacuum pumps adopt unique polytetrafluoroethylene valve plates (former liquid ring pumps use ball valves) for their exhausting systems. Each valve plate is covered on vents in outer side of a port plate and fixed by a stainless steel baffle at its other side. Curvature of the valve plate changes with inlet pressure so that pumping medium can be discharged when it reaches the inlet pressure. Such structure avoids over-compression in a vacuum system and automatically adjusts exhausting area to lower power consumption, thus a best operating efficiency can be obtained.

The key parts of 2BE3 series liquid ring vacuum pumps, such as distribution plate, impeller and pump shaft are simplified in structure with performance improved, thus it's very energy-saving.

Dynamic balance problem is radically solved because during impeller welding, blades are formed by one-step stamping with rational molded lines and all wheel hubs are processed. The impeller and

pump shaft combined by shrinkage interference fit perform reliably and smoothly. Blades of the impeller will obtain good ductility after the impeller is welded and processed by overall heat treatment, thus impact resistance and flexure resistance of the blades are fundamentally guaranteed the application under tough working condition with changing load impact. The 2BE3 pumps are equiped with gas-water separators itself, Many position has the exhausting hole. It is very easy to connect with the vacuum system. What's more, the pump cover with inspeciton window which can regulate the gland packing of the shaft to adjust the impeller and distributoring plate. All vacuum pumps will be subjected to strict inspections and tests in our testing center so as to guarantee their excellent, reliable and long lasting performances.

	Speed (Driving mode)[r/min]	Max. shaft power [KW]	Motor power [KW]	Max. Capacity [m3/h]	[m3/min]	Ultimate vacuum [mbar]	Weight (excl.motor) [Kg]
2BE3- 40	300 (V-belt / gear box)	64.8	6-75	4200	70	160	4050
	330 (V-belt / gear box)	75	6-90	4650	77		
	350 (V-belt / gear box)	86.5	110	4680	81		
	390 (V-belt / gear box)	99	110	5460	91		
	430 (V-belt / gear box)	117	132	6000	100		
	498 (V-belt / gear box)	135	160	6900	115		
	530 (V-be t / gear box)	148	185	7440	124		
	570 (V-belt / gear box)	167	200	8000	133		
2BE3- 42	300 (V-belt / gear box)	100	6-110	5850	97.5	160	4200
	350 (V-belt / gear box)	109	132	6300	105		
	390 (V-belt / gear box)	133	160	7650	127		
	449 (V-belt / gear box)	157	185	8550	142		
	490 (V-belt / gear box)	180	200	9200	154		
	530 (V-belt / gear box)	200	220	10100	168		
	570 (V-belt / gear box)	225	250	10600	177		
2BE3- 50	236 (V-belt / gear box)	128	160	7500	125	160	6000
	266 (V-belt / gear box)	140	160	8500	142		

	300 (V-belt / gear box)	173	200	10000	167		
	336 (V-belt / gear box)	235	250	11400	190		
	366 (V-belt / gear box)	261	280	12500	208		
	420 (gear box)	278	315	13700	228		
2BE3- 52	236 (V-belt / gear box)	168	185	9000	150	160	6500
	266 (V-belt / gear box)	175	200	10560	176		
	336 (V-belt / gear box)	260	280	13800	230		
	366 (gear box)	285	315	15000	250		
	421 (gear box)	331	400	16800	280		
	468 (gear box)	416	500	18450	307		
2BE3- 60	236 (gear box)	204	250	11820	197	160	8900
	265 (gear box)	243	280	14200	236		
	295 (gear box)	285	315	15900	265		
	340 (gear box)	365	400	17400	290		
	370 (gear box)	386	450	19400	323		
2BE3- 62	200 (gear box)	195	250	13200	220	160	92500
	230 (gear box)	260	315	15180	253		
	266 (gear box)	300	355	17300	288.3		
	297 (gear box)	348	400	19300	322		
	330 (gear box)	395	450	21300	355		
	372 (gear box)	490	560	24000	400		
2BE3- 67	180 (gear box)	250	315	14500	242	160	12200
	210 (gear box)	285	315	18000	300		
	270 (gear box)	415	450	22800	380		
	300 (gear box)	465	560	25800	430		
	330 (gear box)	545	630	27720	462		

	370 (gear box)	670	800	30960	516		
2BE3- 72	190 (gear box)	338	400	20100	335	160	15000
	210 (gear box)	395	450	23760	396		
	240 (gear box)	475	560	27000	450		
	270 (gear box)	550	630	30000	500		
	300 (gear box)	642	710	33600	560		
2BE3-80N	190 (gear box)	507	560	30000	500	160	19000
	210 (gear box)	585	630	32280	538		
	240 (gear box)	710	800	36600	610		
	270 (gear box)	849	900	40800	680		
	300 (gear box)	796	10000	44800	748		
2BE3-90N	170 (gear box)	570	630	39000	650	160	24500
	195 (gear box)	730	800	46800	780		
	210 (gear box)	815	900	49800	830		
	230 (gear box)	925	1000	52800	880		
	245 (gear box)	1035	1120	55800	930		
2BE3-100N	155 (gear box)	730	800	48000	800	160	31000
	165 (gear box)	840	900	51300	855		
	175 (gear box)	900	1000	54000	900		
	190 (gear box)	995	1120	59400	990		
	200 (gear box)	1146	1250	62400	1040		

2BV Series Liquid Ring Vacuum Pumps

Introduction:

2BV series liquid ring vacuum pump is suitable for suction gas and vapour ,and the suction pressure can reach 33mbar (abs.)(i.e.97% vacuum degree).When the liquid ring vacuum pump works under the condition that the suction pressure is near the limited vacuum (saturated pressure of the operating liquid)for a long time ,it should couple with the cavitation protection pipe in order to protect the pump .When it's used as a compressor ,the maximum pressure is 0.26mpa (abs).As a new generation of energy-saving product ,2BV series liquid ring vacuum pump will replace the SK and 2SK series liquid ring vacuum pumps and W,WY,WL series reciprocating vacuum pumps completely with their superior performance and advantages .

2BV6 series liquid ring vacuum pumps and compressors are mainly used for pumping the explosive gas or working in the flammable and explosive environment .The technical parameter of each type is the same as the corresponding type of the 2BV2and 2BV5 series products .

Advantages:

1、The direct-coupled design is easy installation and can save space.
2、The pump has the cavitation protection port opens (or connects with the separator)in the case of ensure maximum suction effect to eliminate the noise of cavitation and protect the pump
3、2BV whole series are all use the aluminum bronze impeller with high strength and raise its corrosion resistance and durability .If the liquid flows parts adopt stainless steel ,the pump can work in the more hard condition .

Application:

Pulp & paper industry : black liquid evaporation,vacuum dehydrator,degassing system of raw materials and white water, suction tank,couch roll, absorption-shift roll and transmission roll, Anti-wind box.

Chemical industry: methane gas recovery,petroleum recycle, gas collection, exhaust compression, vapor collection, filtration and deceration, polyester Production, PVC Production.
Power plant: condenser exhausting,water box priming,flue gas desulfurization, fly ash conveying,geothermal gas removal,Vacuum Pressure impregnation for transformers.
Sugar industry: Sewage filtering, CO2 production etc

Technical Specification:

Model	Max.Suction capacity m³/h	Inlet &outlet	Feed water inlet	Motor power kw 50Hz	Motor explosion-proof grade	Pump speed r.p.m	Operating liquid flow rate L/min	Noise dB(A)	Weight kg
2BV2-060	27	G1"	G3/8"	Y90S-2-0.81	Non-explosionproof	2840	2.5	62	31
2BV2-061	52	G1"	G3/8"	Y90S-2-1.45		2840	2.5	65	36
2BV2-070	80	G1.5"	G3/8"	Y100L-2-2.35		2860	3	66	56
2BV2-071	110	G1.5"	G3/8"	Y112M-2-3.85		2880	4.7	72	60
2BV5-110	165	DN50	G1/2"	Y112-4-4KW		1440	7.2	63	105
2BV5-111	230	DN50	G1/2"	Y132-4-5.5KW		1440	8.8	68	126
2BV5-121	280	DN65	G3/4"	Y132-4-7.5KW		1440	11	69	149
2BV5-131	400	DN65	G3/4"	Y160-4-11KW		1460	16	73	195
2BV5-161	500	DN80	G3/4"	Y180-6-15KW		970	22	74	320
Model	Max.Suction capacity m³/h	Inlet &outlet	Feed water inlet	Motor power kw 50Hz	Motor explosion-proof grade	Pump speed r.p.m	Operating liquid flow rate L/min	Noise dB(A)	Weight kg
2BV6-060	27	G1"	G3/8"	YB80-2-1.1KW		2840	2.5	62	37
2BV6-061	52	G1"	G3/8"	YB90-2-1.5KW		2840	2.5	65	41
2BV6-070	80	G1.5"	G3/8"	YB100-2-3KW		2860	3	66	66

2BV6-071	110	G1.5"	G3/8"	YB112-2-4KW	Explosionproof DIIBT4/DIICT4	2880	4.7	72	75
2BV6-110	165	DN50	G1/2"	YB112-4-4KW		1440	6.7	63	150
2BV6-111	230	DN50	G1/2"	YB132-4-5.5KW		1440	10	68	200
2BV6-121	280	DN65	G3/4"	YB132-4-7.5KW		1440	12	69	230
2BV6-131	400	DN65	G3/4"	YB160-4-11KW		1460	17	73	280
2BV6-161	500	DN80	G3/4"	YB180-6-15KW		970	23	74	400

DLV Series Double Stages Liquid Ring Vacuum Pumps

Description: DLV series doulbe state Liquid ring vacuum pumps have two compression processes, with steady scution speed in high vacuum, or keeping the high vacuum in a wide range of suction speed.

Introduction:

DLV series two stage **liquid ring vacuum pump** is our new design based on 2SK pumps and combines Germany double-stage pump design criteria. This series has two compression processes, with steady suction speed in high vacuum, or keeping the high vacuum in a wide range of suction speed. Its efficiency in high vacuum is 35%-40% higher than that of single stage pump, but with less energy consumption.

Advantages:

1. Wider range of suction pressure. Compared to other double stage pumps (suction pressure 50mbar-150mbarA), DLV pump works in 25mbar ~ 1013mbar pressure, with less energy consumption, with15%-20% lower than traditional ones.
2. All kinds of models to fulfill various process requirements.
3. Materials are optional to make the pump possible to work in various harsh environment, Such as carbon steel, stainless steel, dual-phase steel, titanium, etc .
4. Single or double mechanical seal and several flush method.
5. Precise casting, high standard accessories, imported bearing; high efficiency and energy saving.

Application:

DLV series pumps are very suitable for the process of vacuum drying, evaporation, distillation,

concentration, filtering, degassing in industry of food, pharmacy**,** chemical, power plant, paper making, textile, metallurgy etc.

Model	Motor speed	Motor power		Max. suction capacity		Min. inlet pressure		Inlet&outlet port
		kw	HP	m3/h	CFM	mbar	Inch Hg	mm
DLV-140	1450	4.0	5.4	145	85	33	1.0	DN40
	1750	5.5	7.4	174	102	33	1.0	
DLV-180	1450	5.5	7.4	186	109	33	1.0	DN40
	1750	7.5	10.1	223	131	33	1.0	
DLV-300	1450	7.5	10.1	283	167	33	1.0	DN50
	1750	11.0	14.8	314	185	33	1.0	
DLV-350	1450	11.0	14.8	342	201	33	1.0	DN50
	1750	15.0	20.1	411	242	33	1.0	
DLV-400	1450	15.0	20.1	425	250	33	1.0	DN50
	1750	18.5	24.8	475	280	33	1.0	
DLV-500	1450	18.5	24.8	501	294	33	1.0	DN65
	1750	22	29.7	590	347	33	1.0	
DLV600	1450	22	29.7	616	362	33	1.0	DN65
	1750	30	40.5	739	434	33	1.0	
DLV800	975	30	40.5	862	507	33	1.0	DN100
	1175	37	50	1032	607	33	1.0	
DLV1200	975	37	50	1252	736	33	1.0	DN100
	1175	45	60	1407	1407	33	1.0	
DLV1600	975	45	60	1589	935	33	1.0	DN100
	1175	75	101	1717	1010	33	1.0	
DLV2000	740	75	101	2000	1176	33	1.0	DN125
	880	90	121	2500	1470	33	1.0	

	700	75	101	1850	1088	33	1.0	
DLV2500	735	90	121	2600	1529	33	1.0	DN125
	880	110	148	3000	1765	33	1.0	

2SK Liquid Ring Vacuum Pump

Description: 2SK liquid ring vacuum pump also called water ring vacuum pump due to working liquid is water.2SK can be widely used in coal mining,petrochemical, pharmaceutical and beer filling machine.

2SK series liquid ring vacuum pumps(double stage liquid ring vacuum pump) are used for exhausting and compressing air and other noncorrosive, water insoluble and solid particle-free gases so as to create vacuum and pressure in closed containers. A little liquid is allowed in the gas.

2SK series liquid ring vacuum pumps have included secondary impellers and pump cavities to increase vacuum by serial connection. The pumps have high exhaustion capacity under high vacuum degree. The 2SK water ring pumps can also be connected with air ejector, the limiting vacuum combined with air ejector can be up to -740mmhg, (-0.098Mpa), and the absolute pressure is about 2660pa. Furthermore, the 2SK water ring vacuum pump can be combined with Roots vacuum pumps as well to combine liquid ring-roots vacuum unit with a wider application range due to the high ultimate vacuum of 0.5Pa.

Main features:

Compact structure and convenient maintenance;

Wide application range, which applicable for gas with vapor or flammable, explosive, containing a little dust and a little liquid gas.

Low maintenance expense since water is the main operating medium;

Applicable in severe environments.

Model	Suction capacity	Ultimate vacuum	Power	speed	Water supply	Inlet/outlet diam	Water inlet
	m³/min	MPa (G)	KW	r/min	L/min	DN(mm)	(mm)
2SK1.5	1.35	-0.097	4	1440	10-15	40	G1/2″
2SK-3	2.7	-0.098	7.5/11	1440	15-20	40	G1/2″
2SK-6	5.4	-0.098	15	1460	25-35	65	G1/2″
2SK-12	10.8	-0.098	22/30	970	40-50	100	G1/2″
2SK-20	18	-0.098	45	740	60-80	125	G3/4″
2SK-30	27	-0.098	55/75	740	70-90	125	G3/4″

Note: 1) The 2SK performance curve is obtained under the standard condition.

2) 2SK series pumps are suitable to deal with high vacuum only, but if it is long term low vacuum or wide working range, the motor should have higher power.

for related liquid ring vacuum system, please click below links:

SK roots-liquid ring vacuum system, 2BV roots-liuqid ring vacuum system, 2SK roots liquid ring vacuum system

SY/2SY Series Compressor

Description: Water ring compressors of SY/2SY series are used for exhausting air and other noncorrosive, water insoluble and solid particle-free gases.

Introduction：

SY/2SY series water ring compressors possess feature of high discharge pressure, compact structure, stable operation and isothermoal compression. They are suitable to pump gases which contain water vapor, dust and are inflammable, explosive, active in high temperature.

Characteristics:

no air leakage: thanks for external double mechanical seals, it guarantees no leakage of the compressed medium.

The structure of flexible exhaust valve ensures discharge pressure within designated range (single stage 0.1~0.3MPa, double stage 0.3~0.6MPa).

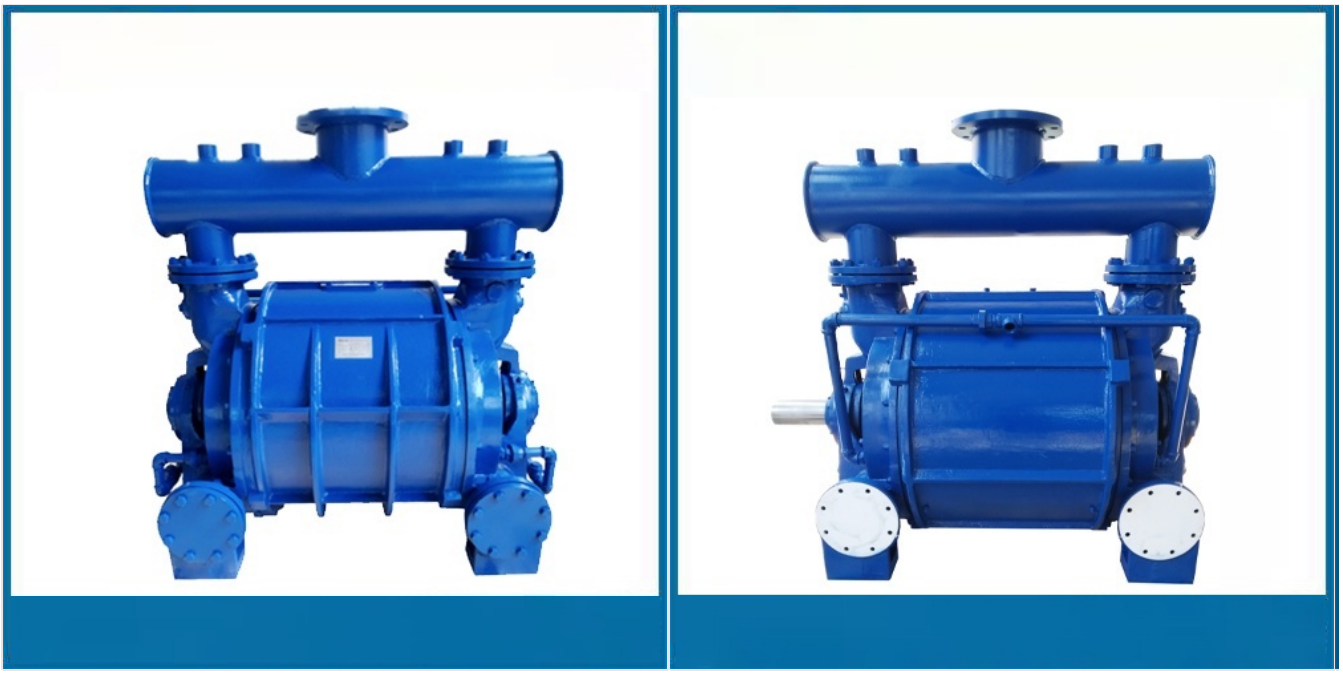
Application:

It's widely used for compressing and conveying gas and recycling tail gases in petrochemical industry, chlor-alkali industry, PVC industry, and pharmaceuticals industry as well.

Additional Service:

Customized designed automatic or manual system is available, including electric control system, gas-liquid separator, heat exchanger, condenser, etc.

Model	Discharge capacity m^3/min	Working pressure range MpaG	Motor power KW	Rotating speed r/min	Suction and discharge caliber mm	Water supply L/min
SY-1.5	1.5	0.15-0.3 Performance curve graph.	18.5	2940	65	30-50
SY-3	3		22	2940	65	50-80
SY-6	6		37	2970	65	80-120
SY-9	9		75	1480	125	120-150
SY-12	12		90	1480	125	156-200
SY-15	15		110	1480	150	180-220
SY-20	20		132	980	150	200-250
SY-25	25		160	980	200	250-300
SY-30	30		185	980	200	300-350
2SY-1.5	1.5	0.3-0.6 Performance curve graph.	22	2940	65	60-100
2SY-3	3		37	2940	65	80-120
2SY-6	6		75	2970	65	120-150
2SY-9	9		110	1450	125	150-170
2SY-12	12		132	1450	125	170-200
2SY-15	15		185	1450	150	200
2SY-20	20		250	980	150	250
2SY-25	25		315	980	200	300
2SY-30	30		355	980	250	350
2SY-35	35		400	980	250	400



CL Sereis Cone Liquid Ring Vacuum Pump

Description: The suction capacity of Cl series vacuum pump reaches 9000m3/h, with minimium suction pressure 100mbar.a. If it is used as compressor, the outlet pressure reaches 0.11Mpa.G.

Introduction:

CL series cone vacuum pump realize its suction and discharge by conical port structure, compared with the axial suction and discharge of flat port plate, it is characterized as wide sectional area and passage, small flow resistance, 18% energy saving when air is evacuated and 28% if saturated steam is pumped, besides, the impeller is well sealed and with high rigidity.

Advantages:

1.They are able to work in the situation that suction port had excessive liquid& contains solid particles.
2.When gas is corrosive, the material of CL pump is optional, including several kinds of stainless steel, different corrosion resistant occasions.
3.When gas is vapor in vacuum state, CL pump as can be used as condenser. The condenser in the heat exchanger is the working liquid of pump, some of which can be injected into pump before the pump suction port, to condense the saturated vapor. It will improve pump's performance and efficiency.

Application:

Vacuum for power plant condenser

Wet flue gas desulfurization equipment of coal-fired power plant

Compression of special inflammable and explosive gases

Compression of ozone

Gas recovery

Reduced pressure distillation

Vacuum dehydration

Vacuum filtration

Vacuum extrusion/ vacuum forming

Vacuum impregnation

Vacuum extraction

Paper&pulp mills

Type	Ultimate vacuum		Speed	Max Capacity		Max Shaft power		Motor power		Inlet diameter		Outlet diameter		Water Supplying	
	hPa	in.Hg	r/min	m³/h	cfm	kW	hp	kW	hp	mm	in.	mm	in.	m³/h	gpn
CL 701	440	13	800	860	506	7.5	10	11	15	100	4	80	3	2.1	9.2
			890	1050	618	12	16.1	15	20	100	4	80	3	2.6	11
			980	1180	695	14.5	19.4	18.5	25	100	4	80	3	2.8	12
			1050	1320	776	16.7	22.4	22	30	100	4	80	3	3.2	14
			1170	1440	847	20	26.8	30	40	100	4	80	3	3.5	15
CL 702	200	6	890	960	565	20	26.8	30	40	100	4	80	3	2.4	11
			980	1140	671	23	30.8	30	40	100	4	80	3	2.8	12
			1050	1250	735	26.5	35.5	37	50	100	4	80	3	3.0	13
			1170	1380	812	30.5	41	37	50	100	4	80	3	3.6	16
CL 703	80	2.4	890	840	494	22.1	29.6	30	40	100	4	80	3	2.8	12
			980	980	576	26	34.9	30	40	100	4	80	3	3.2	14
			1050	1120	689	30	40.2	37	50	100	4	80	3	3.5	15

			1170	1240	730	36.8	49.3	45	60	100	4	80	3	3.6	16
CL 1001	440	13	630	1380	812	23	30.8	30	40	150	6	125	5	3.3	15
			690	1560	918	30	40.2	37	50	150	6	125	5	4.4	19
			770	1620	953	35	46.9	45	60	150	6	125	5	4.9	22
			820	1720	1012	43	57.7	55	75	150	6	125	5	5.2	23
			880	1920	1130	48	64.4	55	75	150	6	125	5	5.5	24
CL 1002	200	6	690	1440	847	38	51	45	60	150	6	125	5	3.3	15
			770	1560	918	41.5	55.7	55	75	150	6	125	5	4.4	19
			820	1680	988	44	59	55	75	150	6	125	5	5.2	23
			880	1920	1130	47	63	55	75	150	6	125	5	5.5	24
CL 1003	80	2.4	690	1320	776	35	46.9	45	60	150	6	125	5	4.4	19
			770	1440	847	42	56.3	55	75	150	6	125	5	5.2	23
			820	1560	918	49	65.7	55	75	150	6	125	5	5.5	24
			880	1740	1024	55	73.8	75	100	150	6	125	5	5.8	26
CL 2001	440	13	450	2760	1624	49	65.7	55	75	200	8	150	6	7.9	35
			500	3060	1800	57	76.4	75	100	200	8	150	6	8.9	39
			550	3330	1960	65	87.2	75	100	200	8	150	6	10	44
			590	3570	2100	77	103.3	90	120	200	8	150	6	10.6	47
			640	3750	2207	96	128.7	110	150	200	8	150	6	10.8	48
CL 2002	200	6	450	2760	1624	44	59	55	75	200	8	150	6	8.1	36
			500	2900	1700	52	69.7	75	100	200	8	150	6	9.2	41
			550	3080	1810	66	88.5	75	100	200	8	150	6	10.2	45
			590	3270	1924	77	103.3	90	120	200	8	150	6	10.8	48
			640	3440	2024	85	114	110	150	200	8	150	6	11.0	48
CL 2003	80	2.4	450	2280	1340	55	73.8	75	100	200	8	150	6	8.2	36
			500	2550	1500	62	83.1	75	100	200	8	150	6	9.2	41

			550	2850	1677	70	93.9	90	120	200	8	150	6	10.5	46
			590	3240	1906	80	107.3	90	120	200	8	150	6	11.0	48
			640	3540	2083	99	132.8	110	150	200	8	150	6	11.2	49
CL 3001	440	13	400	4440	2613	71	95.2	90	120	250	10	200	8	11.4	50
			450	4800	2825	92	123.4	110	150	250	10	200	8	11.7	52
			500	5130	3020	111	149	132	180	250	10	200	8	12.2	54
			530	5370	3160	130	174.3	160	215	250	10	200	8	13.0	57
CL 3002	200	6	400	4110	2420	75	100.6	90	120	250	10	200	8	13.5	59
			450	4710	2772	92	123.4	110	150	250	10	200	8	14.2	63
			500	4920	2895	115	154.2	132	180	250	10	200	8	14.9	66
			530	5460	3213	123	165	160	215	250	10	200	8	15.5	68
CL 3003	80	2.4	400	4200	2472	92	123.4	110	150	250	10	200	8	14.0	62
			450	4500	2648	102	136.8	132	180	250	10	200	8	14.6	64
			500	4740	2790	108	144.8	132	180	250	10	200	8	15.3	67
			530	4980	2930	115	154.2	132	180	250	10	200	8	16.0	70
CL 4001	440	13	300	5520	3249	72	96.6	90	120	300	12	250	10	7.8	34
			327	5940	3496	88	118	110	150	300	12	250	10	8.2	36
			360	6360	3743	105	140.8	132	180	300	12	250	10	10.5	46
			400	7200	4237	153	205.2	160	215	300	12	250	10	11.0	48
			450	8160	4802	166	222.6	185	250	300	12	250	10	11.2	49
CL 4002	200	6	327	5400	3178	94	126	110	148	300	12	250	10	16.7	74
			360	6300	3708	110	147.5	132	177	300	12	250	10	18.5	81
			400	6900	4060	135	181	160	215	300	12	250	10	19.3	85
			450	7620	4485	157	210.5	185	248	300	12	250	10	20.5	90
CL 4003	80	2.4	327	4920	2895	102	136.8	110	148	300	12	250	10	17.8	78
			360	5520	3249	130	174.3	160	215	300	12	250	10	19.1	84

			400	6420	3778	155	207.8	185	248	300	12	250	10	20.4	90
			450	7440	4379	179	240	200	268	300	12	250	10	22.0	97

AT/TC Series Cone Two Stage Water Ring Vacuum Pump

Description: AT/TC series double stage cone type water ring vacuum pumps can condensate and take away the large amount of vapor from the process.

Introduction:

AT/TC series cone type liquid ring vacuum pump adopts international advanced technology. It has one impeller but with double stage function, this can condensate and take away the large amount of vapor from the process; The pump is suitable to be used in bad working conditions to deal with high dust gases, dirty gases with soft fibre, gases contains liquid, hot gases, toxic or corrosives gases etc, in industries of power plant, petrochemical, paper making, coal mine etc.

Advantages:

1.Several installation points; driven by belt type elastic coupling.
2. The shroud on impeller blades makes it highly resistant to weariness and corrosion, stable and reliable.
3.Seal type is optional for different industries, such as packing seal, single end or double end (cartridge type) mechanical seal.
4.Material is optional to fulfill bad working environment, such as carbon steel, stainless steel, duplex stainless steel, titanium etc.
5.Double stage design, small compression ratio, little temperature rise in high vacuum area, prevent cavitation effectively.

Application:

AT/TC series cone type double stage water ring vacuum pump are equipped with international brand

motor, heat exchanger, valves, automatic control instruments etc, to integrate a safe, high efficiency, automatic operating vacuum system. They are widely used in power plant condenser vacuum, and for drying, evaporation, distillation, concentration, filtration, dehydration , degassing in industries of food, pharmacy, chemical, paper making etc.

Type	Ultimate vacuum		Speed	Max Capacity		Max Shaft power		Motor power		Inlet diameter		Outlet diameter		Water Supply
	hPa	in.Hg	r/min	m³/h	acfm	kW	hp	kW	hp	mm	in.	mm	in.	m³/h
AT706	33	1	885	1000	590	23.1	31	30	40	100	4	80	3	3.3
			980	1100	650	26.8	36	30	40	100	4	80	3	3.9
			1050	1200	710	31.3	42	37	50	100	4	80	3	4.4
AT1006	33	1	690	1485	875	41.0	55	45	60	200	8	125	5	4.9
			730	1615	950	43.3	58	55	75	200	8	125	5	5.2
			880	1955	1150	58.2	78	75	100	200	8	125	5	5.8
			980	2040	1200	71.6	96	90	120	200	8	125	5	6.2
TC11	33	1	450	2720	1600	70.8	95	90	120	200	8	150	6	9.1
			500	3060	1800	85.8	115	110	150	200	8	150	6	9.5
			550	3400	2000	95.4	128	110	150	200	8	150	6	10.1
			590	3600	2120	104	140	132	180	200	8	150	6	10.5
AT2006	33	1	500	3010	1775	74.6	100	90	120	200	8	150	6	9.5
			550	3310	1950	82.0	110	110	150	200	8	150	6	9.8
			590	3570	2100	91.7	123	110	150	200	8	150	6	10.2
AT3006	33	1	400	3740	2200	104	140	110	150	250	10	200	8	10.5
			450	4420	2600	127	170	160	215	250	10	200	8	11.2
			500	4760	2800	157	210	185	250	250	10	200	8	12.5

2BE Series Compressors

Description: The liquid ring vacuum pumps and compressors of 2BE series are high-efficient and energy-saving products developed by our company on the basis of our scientific achievements

The liquid ring vacuum pumps and compressors of 2BE series are high-efficient and energy-saving products developed by our company on the basis of our scientific achievements and production experiences over the years combining with the advanced international technique of similar products. They are usually used to suction the gas without solid particle, undissolved and noncorrosive gas in order to form negative pressure in the closed container. By changing the fluid parts material, they can also be used to suction corrosive gas or use corrosive liquid as operating liquid such as the PPS thermal spray coating obtained national patent.

These single-stage and single-acting pumps are simple in structure, convenient in maintaining, reliable in operating, efficient and energy-saving. They can run under tough working conditions with large drainage discharge and changing load impact. 2BE vacuum pumps adopt unique flexible discharge structure for their exhaust systems. Each valve plate is covered on vents in outer side of a port plate and fixed by a stainless steel baffle at its other side. Curvature of the valve plate changes with inlet pressure so that pumping medium can be discharged when it reaches the inlet pressure. Such structure avoids over-compression in a vacuum system and automatically adjusts exhausting area to lower power consumption, thus a best operating efficiency can be obtained.
2BE series products are applied in the chlor-alkali industry mainly to hydrogen compressor package unit of ion-exchange membrane caustic soda, acetylene compressor package unit of PVC and exhaust gas recycle vacuum pump etc.

Specifications of water ring compressor complete unit

Water ring compressor package unit are large complete equipment developed on the basis of water ring compressor. The main pump is equipped with advanced 2BE、2SY series water ring compressor and can provide aspiring system, water system of cooling and recycle seal liquid, gas and liquid separator, instruments and meters, security alarms device and pipe valves etc. according to different using requirements. The electrical control can set several functions such as manual operation, semi-automatic or full-automatic remote control. By experiments, the large complete equipment is verified to have the ability to pumping gas under various kinds of complicated working conditions and excellent performance, meanwhile can fully ensure clients' requirements.
2BE、2SY series **water ring vacuum compressors** are high-efficient and energy-saving products developed in the 1990s by our company on the basis of our scientific achievements and production experiences over the years combining with the advanced international technique of similar products. The products are tested by national vacuum equipment quality supervision and inspection center. All the performance reaches or exceed design demand and appraised by experts, our products reach the international advanced level.

The outstanding characteristics and advantages:

The impeller material is qualified steel plate, and the blades are shaped once by stamping. The inside and outside of the wheel hub conduct machining and adopts welding process. The whole impeller conducts thermal treatment and has good balance. Therefore the problem of dynamic and static balance is solved fundamentally. Our impeller has high strength, good toughness, abrasion resistance, never broken, impact and bent resistance etc. advantages and reaches international advanced level.

According to different process, the fluid parts of the compressor can adopts many kinds of material, such as SS304, SS316 and treatments(spray coating treatment) to improve the capability of being suitable for working environment. The corrosion, washing, erosion resistance ability and anti-scale deposit ability are further enhanced.
The position of the impeller reinforce rib is away from the end face. The end face of the blades on the port plate surface scrapes the sundries between them off like a scraper in case that the sundries scale between the impeller and port plate and of the wear of port plate. The sudden shut off phenomenon can be avoided as well.

The optimization design of the port plate and molded lines of the impeller improve the stream guidance effect, enlarge the suction and discharge volume and brings high efficiency and simple structure. Therefore it barely need repair and maintenance.

Adopting wear-proof stainless steel shaft sleeve and ensure the shaft away from wear.

Shaft end of the compressor adopts reliable seal mode——mechanical seal, which can avoid leakage of operating liquid and pump gas efficiently.
Foreign import bearing has stronger bearing capability , accuracy position and service life over two hundred thousand hours, which ensure the reliability of compressor's long term operation.

Compressor and attached device can be manufactured with ordinary or special material according to different medium.

The coupling is fixed with removable strong steel closed shield which is fastened into the bottom plate firmly.

The design and structure of each electric motor coordinate with electrical system driven device and operation maintenance. The motor is damp-proof closed.

All the equipments, including the support have capability to bear completely the force and moments of the force passed from the users connecting pipe ports.

The cooling device of the operating liquid is set according to the specific working condition and pumping capability of the compressor. Adopting heat exchanger with high efficiency and convenient repair and maintenance. The heat exchanger adopts plate type generally and the plates adopt SS304 stainless steel. Thus the closed cycle of operating liquid is achieved and save the consumption of the water.

According to the demand of working condition, the gas and liquid separator is generally provided which can separate the pumping gas efficiently and recycle operating liquid. Meanwhile, the liquid cooled by heat exchanger can replenish the recycle of operating liquid. The gas is discharged to specified place via the outlet of the separator. It's specially suitable for pumping flammable, explosive and poisonous gas. The reliable automatic water replenishing and drainage device is correspondingly installed.

The liquid level meter in the separator that can display is magnetic flap type to be controlled by electrical magnetic valve or mechanical high-low liquid level switch. There is a DCS interface which is safe and reliable.

The package unit is provided with operating liquid drain-off pipes. When the package unit is shut down, the accumulated liquid can be drained off to specified place according to environmental requirement.

According to the process demand, the control of the electrical motor and the butterfly valve of the inlet can be set via DCS. To monitor, control and interlock all the control objects and other related systems as well as protect signal can access to DCS.

According to the process demand, the whole instrument measure and control device can be provided to make sure reliable test and control capability. The exact action of the high-low water level switch and reliable output interface can make the water ring vacuum pumps operate safely and reliably and ensure the package unit to work stable with high efficiency.

The compressor and all the accessories are supplied in complete and are installed on the same foundation support with all the accessories assembled well. Meanwhile the foundation support is set special drainage device in case of accumulated water.

	Speed (Driving mode)[r/min]	Max. shaft power [KW]	Motor power [KW]	Max. Capacity [m3/h]	[m3/min]	Ultimate vacuum [mbar]	Weight (excl.motor) [Kg]
2BE3- 40	300 (V-belt / gear box)	64.8	6-75	4200	70	160	4050
	330 (V-belt / gear box)	75	6-90	4650	77		
	350 (V-belt / gear box)	86.5	110	4680	81		
	390 (V-belt / gear box)	99	110	5460	91		
	430 (V-belt / gear box)	117	132	6000	100		
	498 (V-belt / gear box)	135	160	6900	115		
	530 (V-be t / gear box)	148	185	7440	124		
	570 (V-belt / gear box)	167	200	8000	133		
2BE3- 42	300 (V-belt / gear box)	100	6-110	5850	97.5	160	4200
	350 (V-belt / gear box)	109	132	6300	105		
	390 (V-belt / gear box)	133	160	7650	127		
	449 (V-belt / gear box)	157	185	8550	142		
	490 (V-belt / gear box)	180	200	9200	154		
	530 (V-belt / gear box)	200	220	10100	168		
	570 (V-belt / gear box)	225	250	10600	177		
2BE3- 50	236 (V-belt / gear box)	128	160	7500	125	160	6000
	266 (V-belt / gear box)	140	160	8500	142		
	300 (V-belt / gear box)	173	200	10000	167		
	336 (V-belt / gear box)	235	250	11400	190		
	366 (V-belt / gear box)	261	280	12500	208		
	420 (V-belt / gear box)	278	315	13700	228		
2BE3- 52	236 (V-belt / gear box)	168	185	9000	150	160	6500
	266 (V-belt / gear box)	175	200	10560	176		

	336 (V-belt / gear box)	260	280	13800	230		
	366 (V-belt / gear box)	285	315	15000	250		
	421 (V-belt / gear box)	331	400	16800	280		
	468 (V-belt / gear box)	416	500	18450	307		
2BE3- 60	236 (gear box)	204	250	11820	197	160	8900
	265 (gear box)	243	280	14200	236		
	295 (gear box)	285	315	15900	265		
	340 (gear box)	365	400	17400	290		
	370 (gear box)	386	450	19400	323		
2BE3- 62	200 (gear box)	195	250	13200	220	160	92500
	230 (gear box)	260	315	15180	253		
	266 (gear box)	300	355	17300	288.3		
	297 (gear box)	348	400	19300	322		
	330 (gear box)	395	450	21300	355		
	372 (gear box)	490	560	24000	400		
2BE3- 67	180 (gear box)	250	315	14500	242	160	12200
	210 (gear box)	285	315	18000	300		
	270 (gear box)	415	450	22800	380		
	300 (gear box)	465	560	25800	430		
	330 (gear box)	545	630	27720	462		
	370 (gear box)	670	800	30960	516		
2BE3- 72	190 (gear box)	338	400	20100	335	160	15000
	210 (gear box)	395	450	23760	396		
	240 (gear box)	475	560	27000	450		
	270 (gear box)	550	630	30000	500		
	300 (gear box)	642	710	33600	560		

2BE3-80N	190 (gear box)	507	560	30000	500	160	19000
	210 (gear box)	585	630	32280	538		
	240 (gear box)	710	800	36600	610		
	270 (gear box)	849	900	40800	680		
	300 (gear box)	796	10000	44800	748		
2BE3-90N	170 (gear box)	570	630	39000	650	160	24500
	195 (gear box)	730	800	46800	780		
	210 (gear box)	815	900	49800	830		
	230 (gear box)	925	1000	52800	880		
	245 (gear box)	1035	1120	55800	930		
2BE3-100N	155 (gear box)	730	800	48000	800	160	31000
	165 (gear box)	840	900	51300	855		
	175 (gear box)	900	1000	54000	900		
	190 (gear box)	995	1120	59400	990		
	200 (gear box)	1146	1250	62400	1040		

LRC Series Liquid Ring Compressor

Description: It has the advantages of simple structure, high energy efficiency, safety and reliability.

Introduction:

LRC series liquid ring compressor is a kind of compressor with high performance and high compression ratio developed by our company according to the advanced experience of foreign countries and the latest water conservancy model. It has the advantages of simple structure, high energy efficiency, safety and reliability.

Advantages:

1.Single-stage impeller, performance up to 0.7Mpa (G).
2.Rear bearing positioning, clearance can be adjusted.
3.Bearing chamber with thin oil lubrication, higher loading capacity.
4.Upper suction and side discharge, easy start.
5.pump body with bolt connection, safe and reliable.

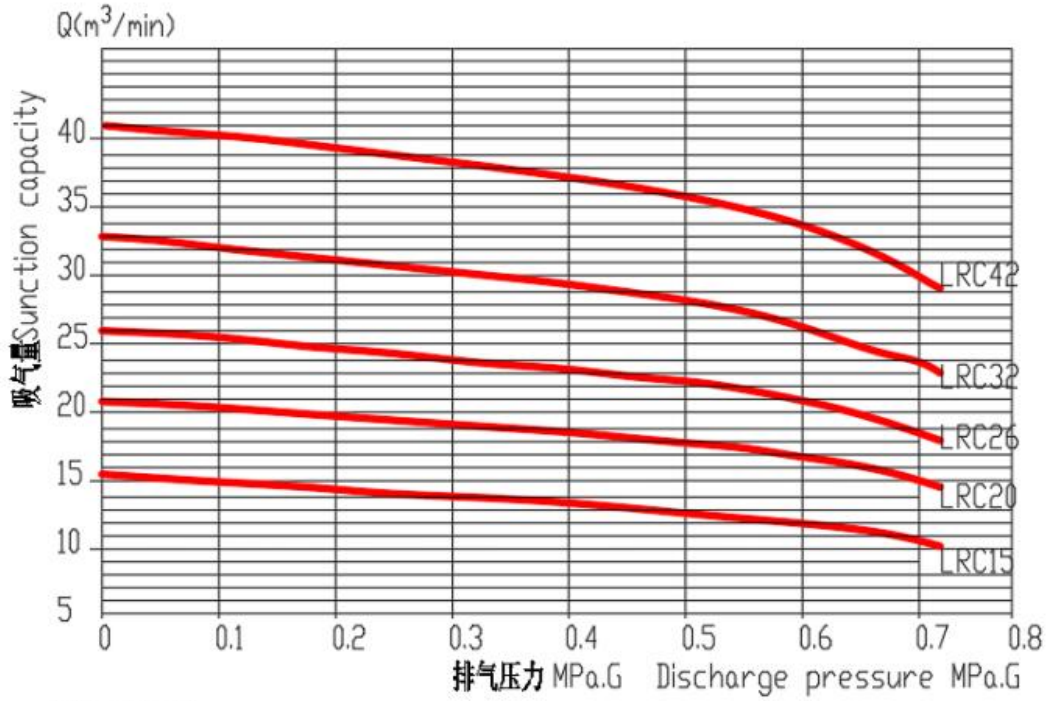
Application:

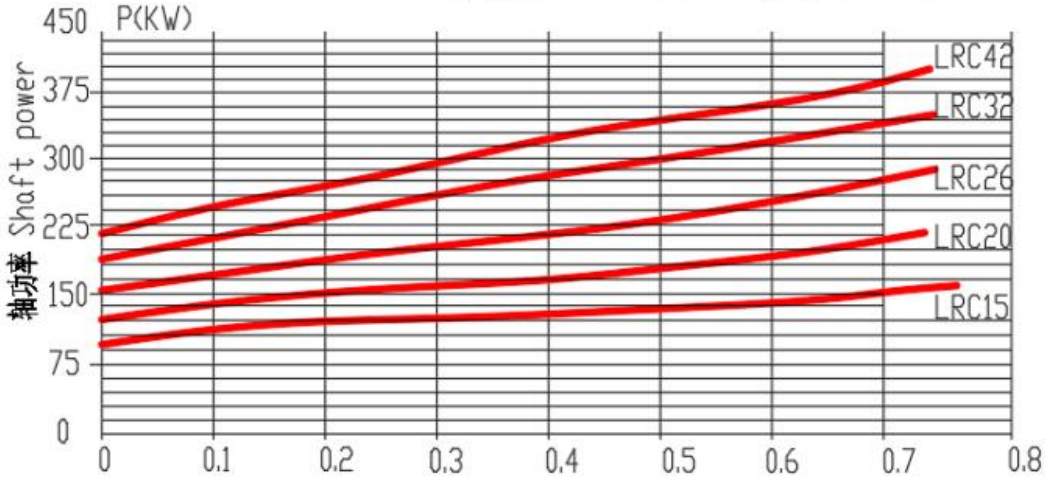
LRC series liquid ring compressor is mainly used in petrochemical industry, torch gas and pharmaceutical gas transport recovery, sewage treatment, chlor-alkali and other industries, with high pressure, compact structure, reliable use, easy to operate and high pressure area pumping speed. Because it is in the isothermal state in the process of compression, LRC liquid ring compressor can better avoid dangers in the compression of flammable, explosive gas.

Datasheet

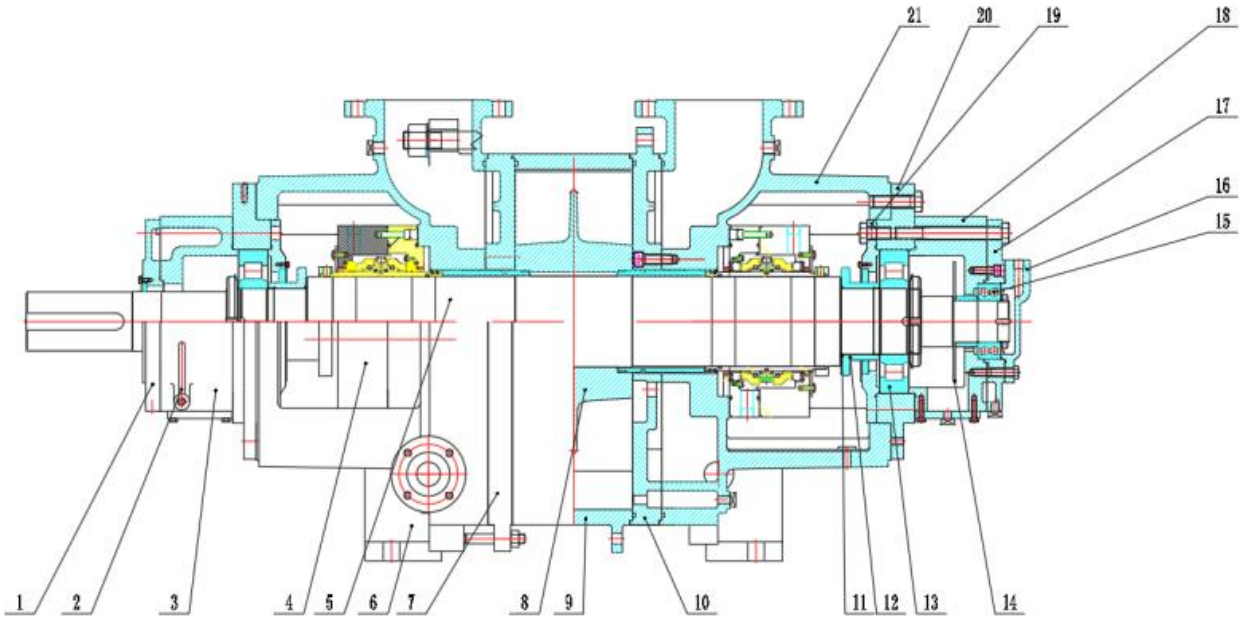
Model	Speed [r/min]	Motor power [kW]	Ultimate vacuum [MpaG]	Suction capacity [m^3/min]	Water supply [[m^3/h]
LRC-15	1450	185	0.7MPa(G)	≥15	8-10
LRC-20	1450	250	0.7MPa(G)	≥20	10-12
LRC-26	1450	280	0.7MPa(G)	≥25	13-15
LRC-32	1450	355	0.7MPa(G)	≥30	16-19
LRC-42	1450	400	0.7MPa(G)	≥40	20-24

Performance curve of LRC





Cross-sectional drawing of LRC



No.	Name	No.	Name	No.	Name	No.	Name
1	Front cap	2	Oil leveler	3	Front cooling chamber	4	Double end machine seal
5	Pump shaft	6	Front pump cover	7	Front portplate	8	Impeller
9	pump body	10	Back portplate	11	O-ring	12	T-type shaft sleeve
13	Bearing	14	Oil flinger	15	Locating bearing	16	Locating bearing cap
17	Locating bearing pedestal	18	Back cooling chamber	19	Inner bearing cap	20	Back bearing pedestal
21	Back pump cover						

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