

2BE1 SERIES LIQUID RING VACUUM PUMP



ZIBO ZHAOHAN PUMP WORKS

We Always Supply High Quality Product And Service

● THE APPLICATION RANGE AND CHARACTERISTICS:

2BE1 series liquid ring vacuum pumps and compressors are manufactured by our company integrating with advanced technology of the imported pumps from abroad. It has high efficiency and economic power consumption.

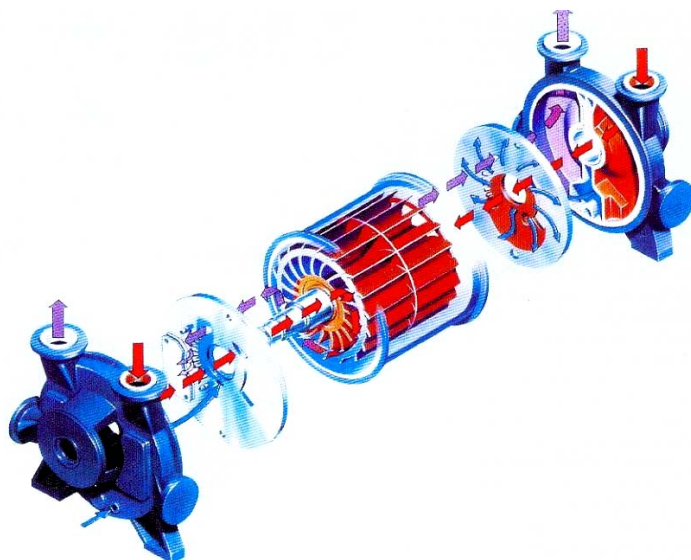
These series products is single stage and single action structure, it has many advantages, such as compact structure, convenient maintenance, reliable running, high efficiency and economical powers consumption.

Comparing with the SK, 2SK, SZ series water ring vacuum pumps, the 2BE series products are the ideal replacements pump due to its high vacuum, low power consumption, and steady running reliability.

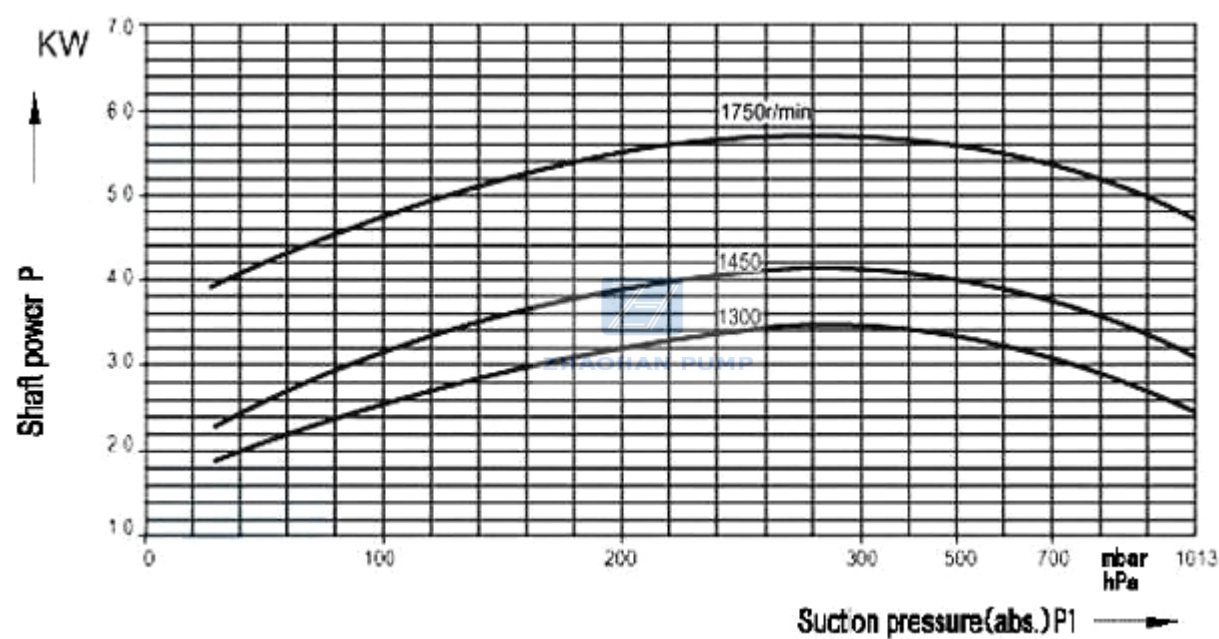
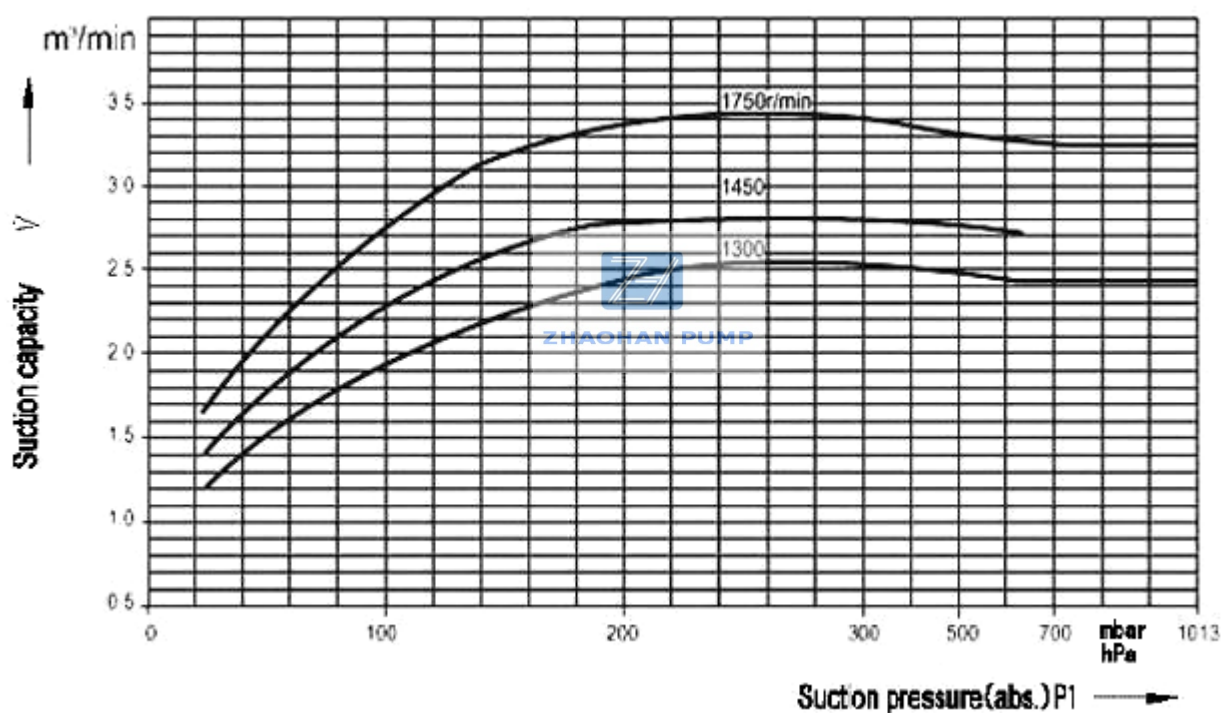
The main advantages of 2BE1 series products:

- All the bearings are the imported brand like NSK or NTN to ensure the precise orientation and the high stability during the working of the pump.
- The material of the impeller is QT400 nodular iron or stainless steel to ensure the stability when the pump works under the rigorous condition and can extend the lifetime of the pump.
- The casing is made of steel or stainless steel plates to extend the lifetime.
- The shaft sleeve is made of stainless steel to improve the lifetime of the pump 5 times than the normal material.
- The V-belt pulley (when the pump is driven by belt) is used the high precise pulley with taper bushing to keep the reliability of the pump and extend its life. And it is also easy for assembling and disassembling.
- The coupling is used to drive the pump directly. The flexible part connecting the two half coupling is made of polyurethane that makes the pump more reliable.
- The unique design to set the separator above the pump saves the space and decreases the noise efficiently.
- All the parts are cast by the resin sands that make the pump surface very smooth. It is not necessary to cover the surface of the pumps with putty and gives out the heat efficiently.
- The mechanical seals (optional) are used the imported brand like John crane or Bergman to avoid the leakage when the pump works for a long time.

● CONSTRUCTION DRAWING

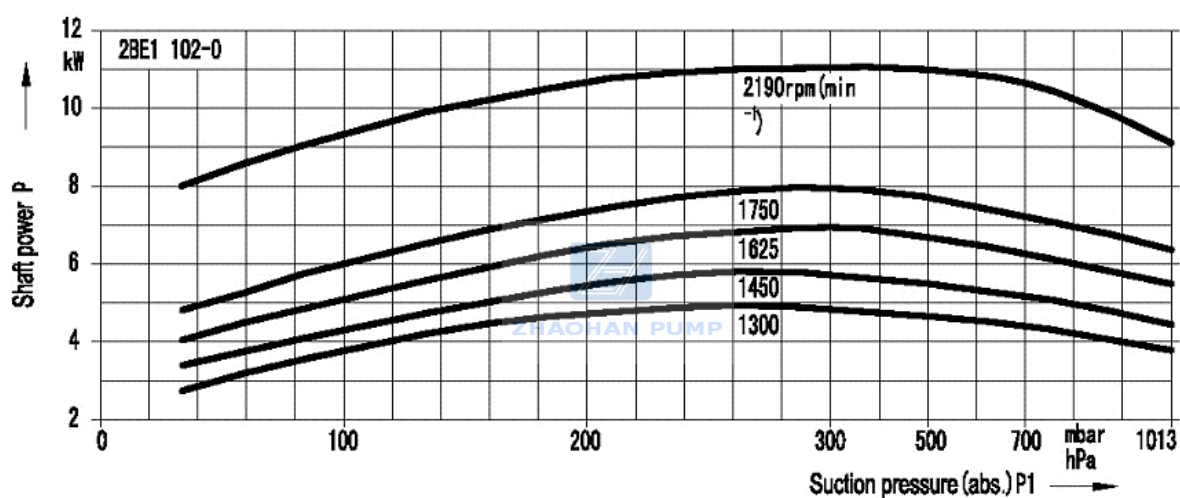
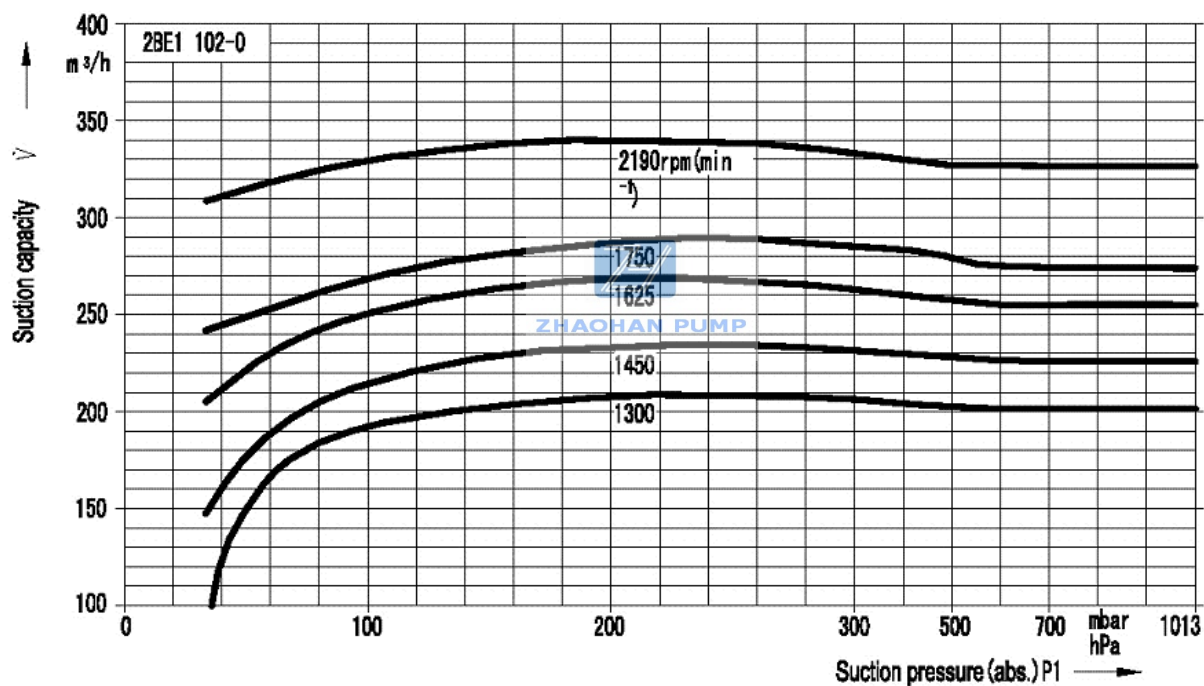


2BE1 101 PERFORMANCE CURVES



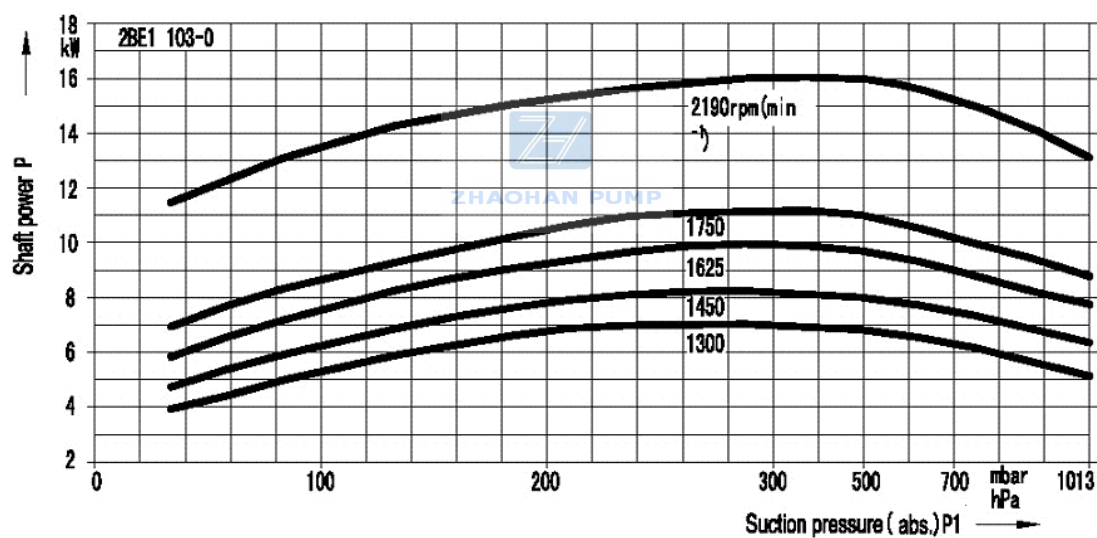
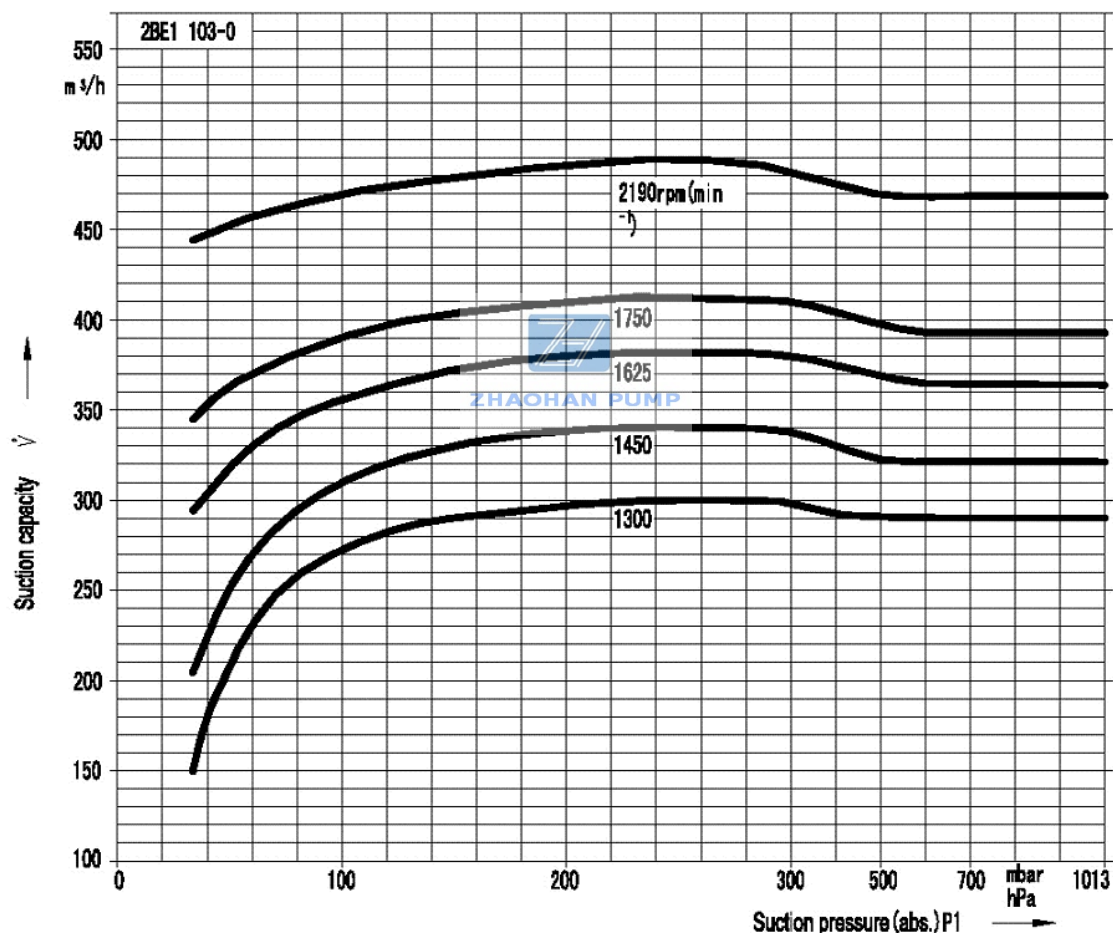
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 101	1450 (Direct)	4.2	5.5	33mbar (-0.098MPa)	168	2.8
	1300 (Belt)	3.5	4.0		150	2.5
	1750 (Belt)	5.7	7.5		204	3.4

2BE1 102 PERFORMANCE CURVES



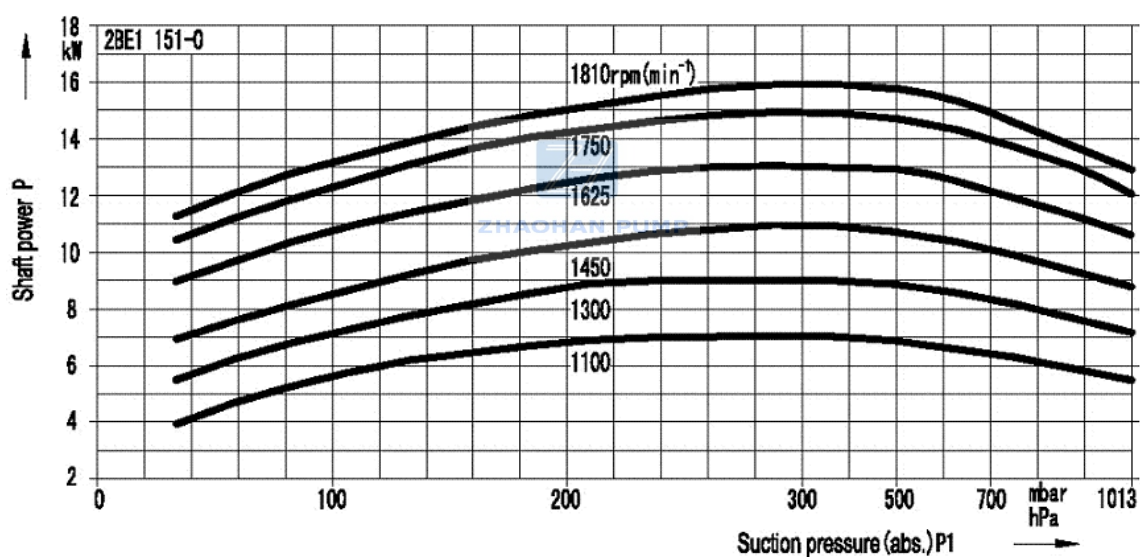
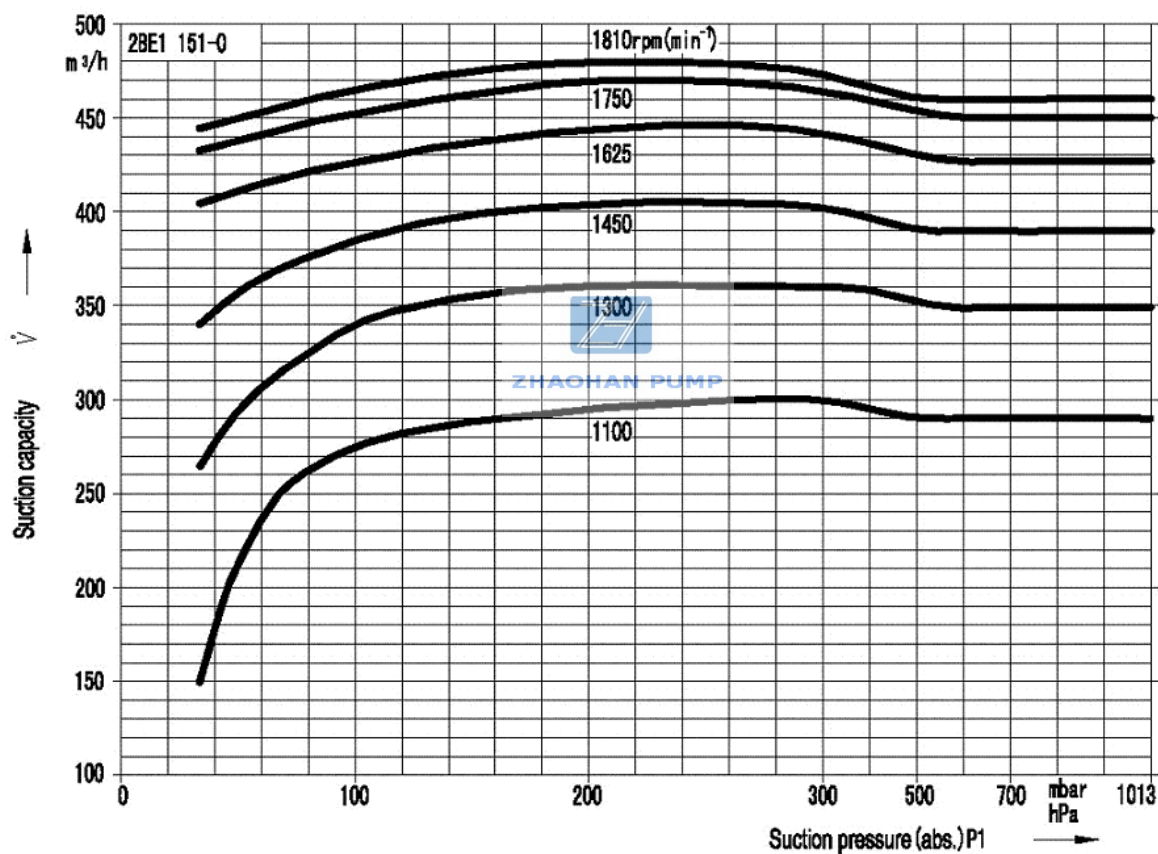
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m ³ /h	m ³ /min
2BE1 102	1450 (Direct)	5.8	7.5	33mbar (-0.098MPa)	235	3.9
	1300 (Belt)	5.0	7.5		210	3.5
	1625 (Belt)	6.8	7.5		270	4.5
	1750 (Belt)	8.0	11		290	4.8

2BE1 103 Performance Curves



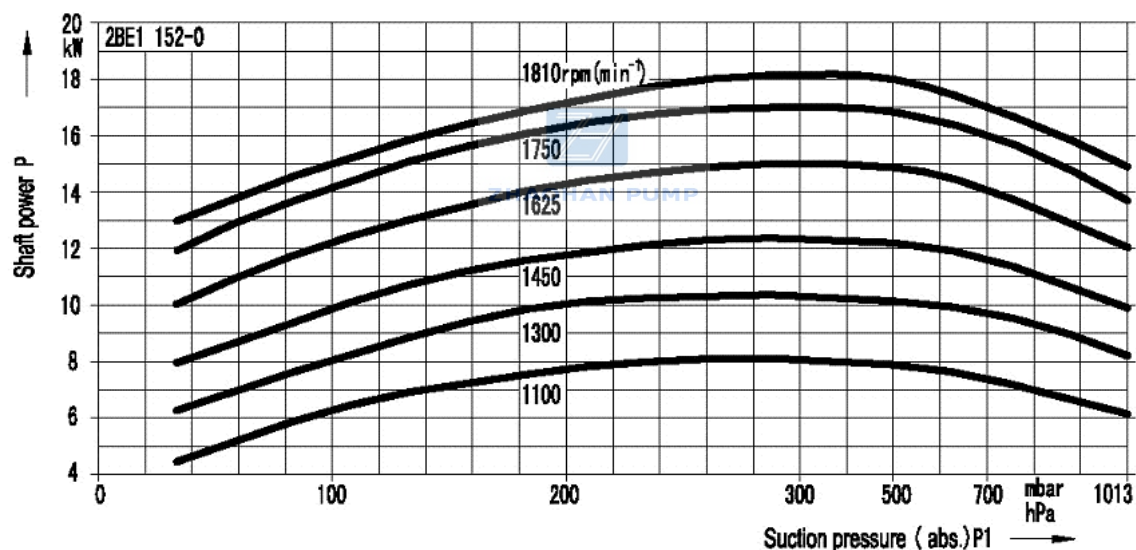
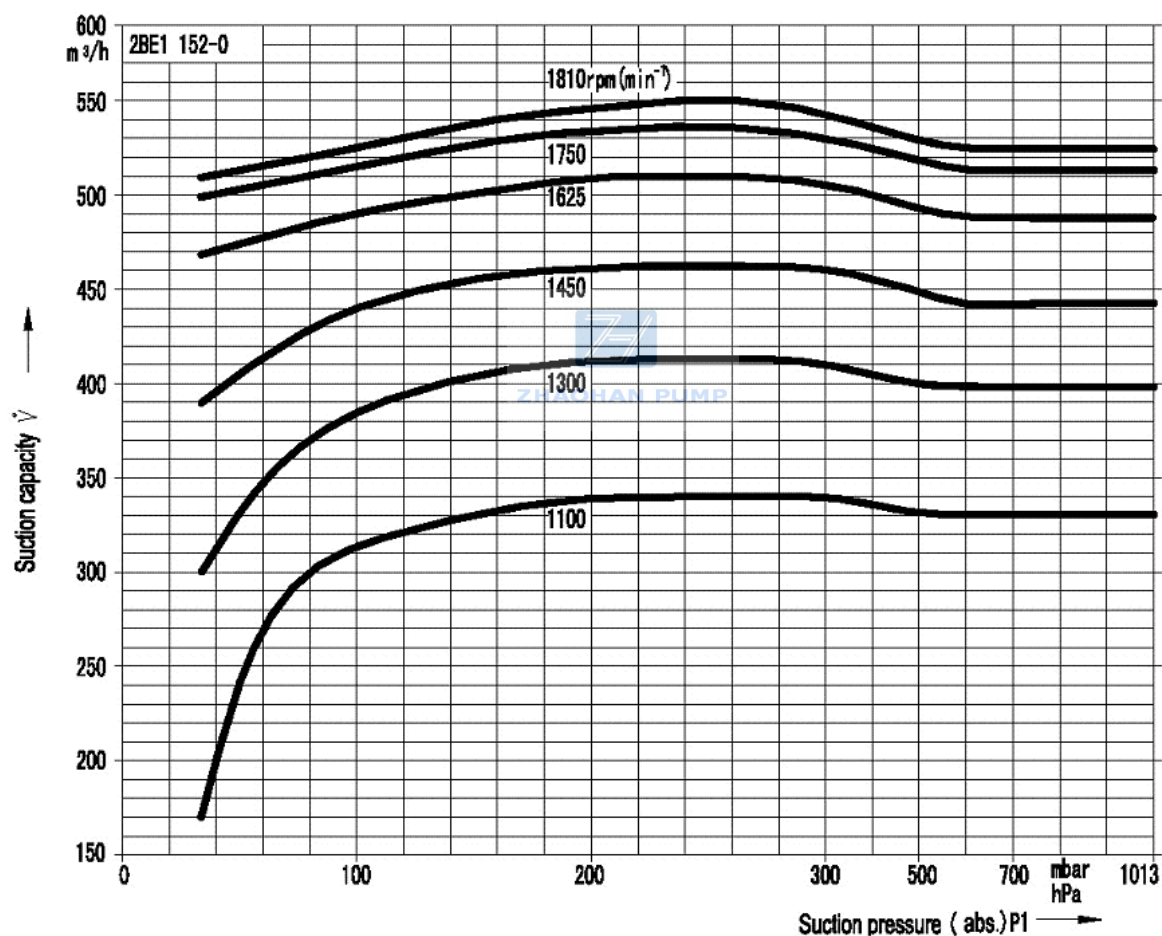
Model	Speed(RPM)	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
	coupling type				m³/h	m³/min
2BE1 103	1450 (Direct)	8.2	11	33mbar (-0.098MPa)	340	5.7
	1300 (Belt)	7.0	11		300	5.0
	1625 (Belt)	9.9	15		385	6.4
	1750 (Belt)	11.1	15		412	6.9

2BE1 151 Performance Curves



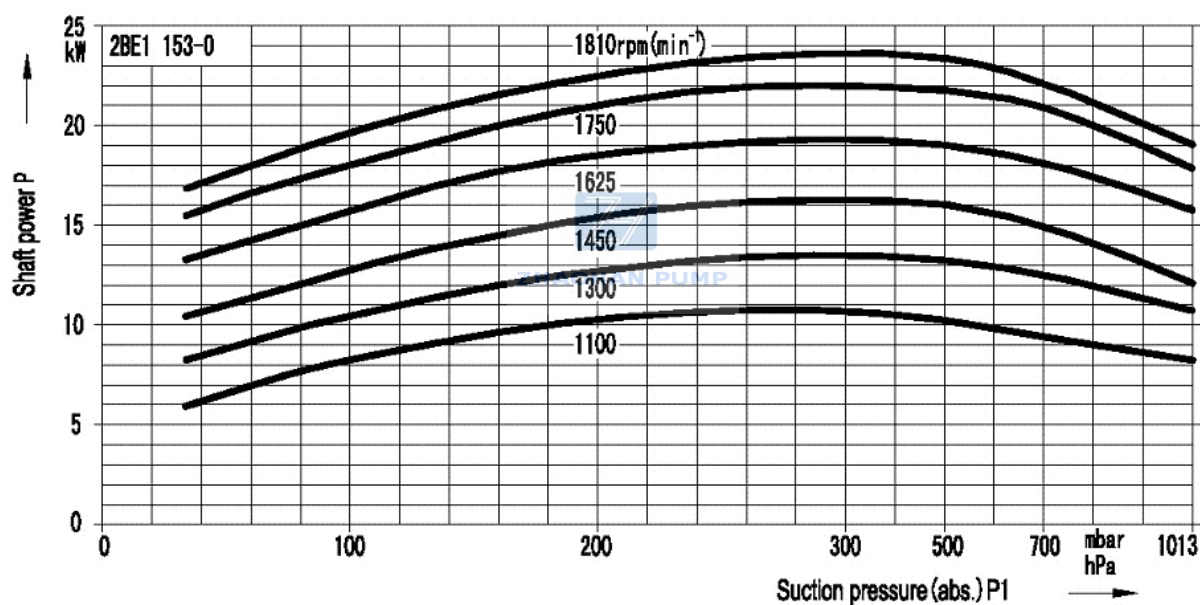
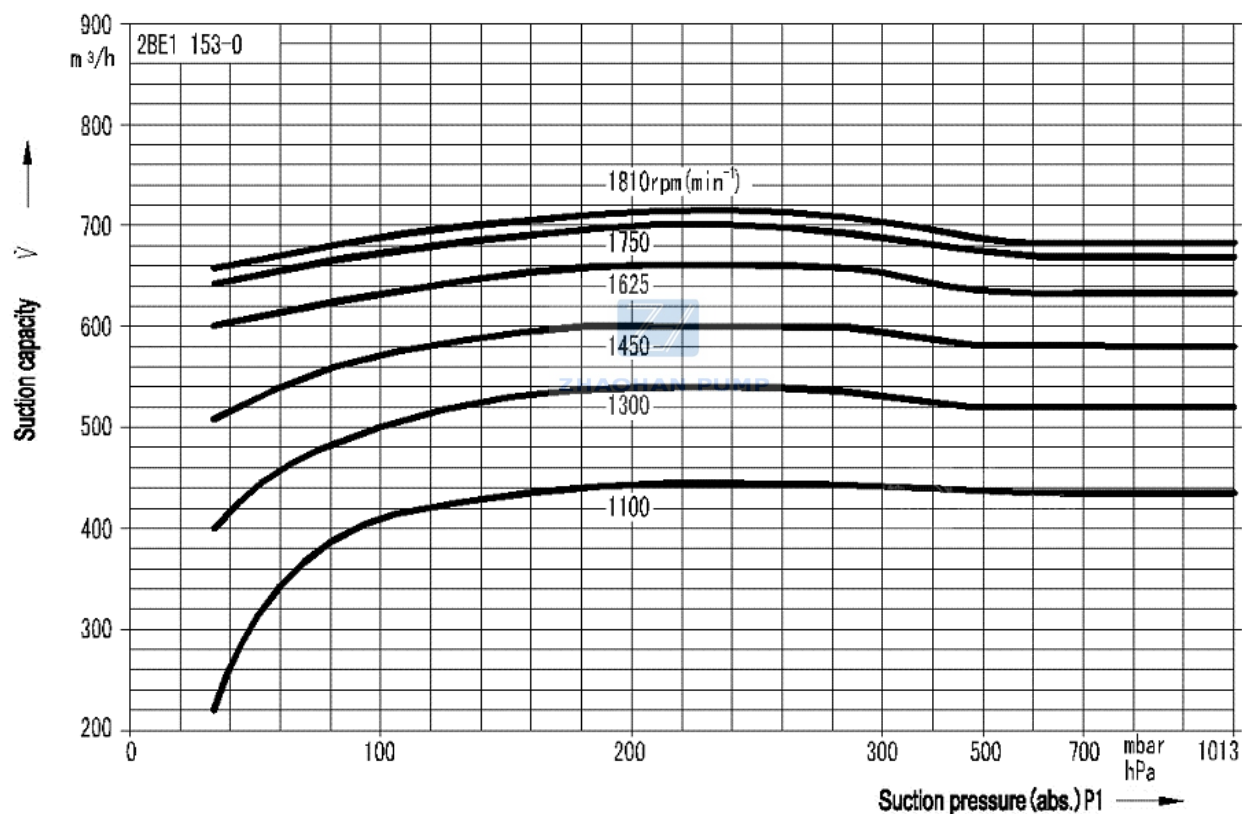
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m ³ /h	m ³ /min
2BE1 151	1450 (Direct)	10.8	15	33mbar (-0.098MPa)	405	6.8
	1100 (Belt)	7.2	11		300	5.0
	1300 (Belt)	9.2	11		360	6.0
	1625 (Belt)	13.2	15		445	7.4
	1750 (Belt)	14.8	18.5		470	7.8

2BE1 152 Performance Curves



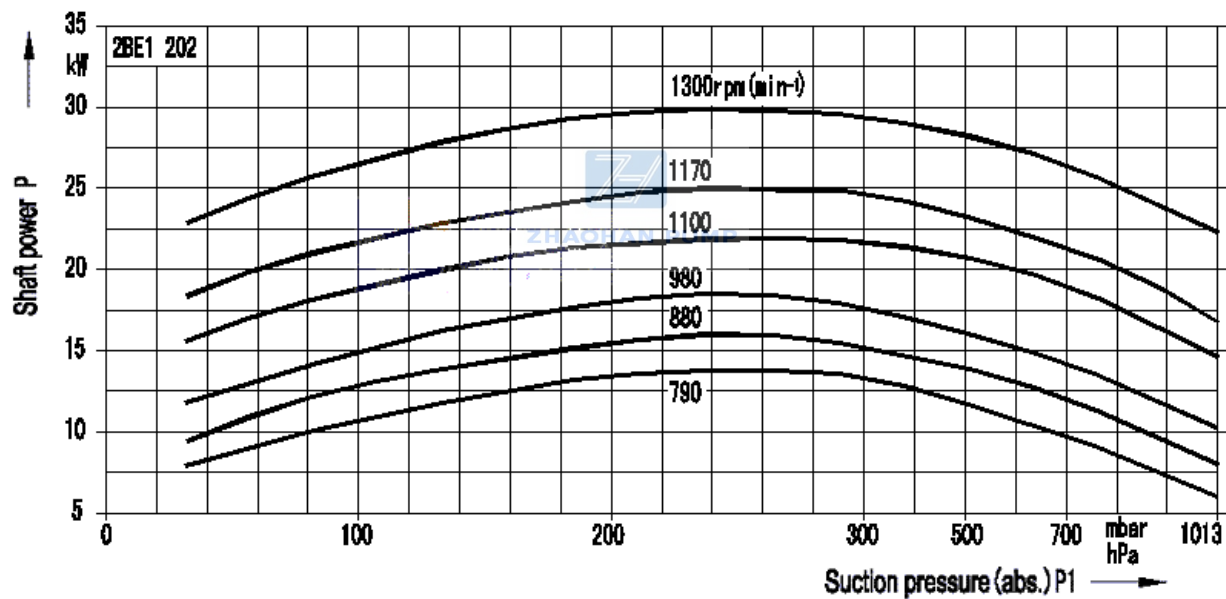
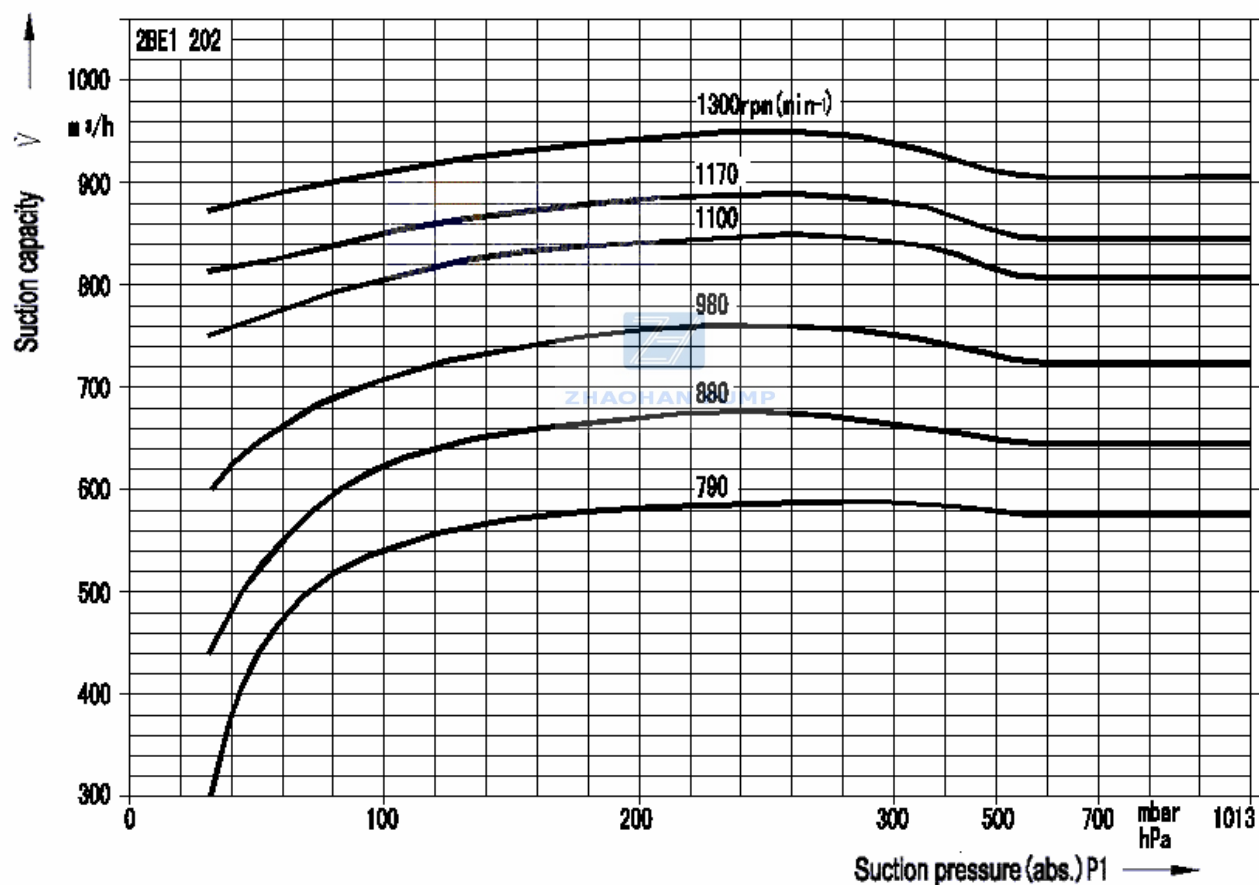
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 152	1450 (Direct)	12.5	15	33mbar (-0.098MPa)	465	7.8
	1100 (Belt)	8.3	11		340	5.7
	1300 (Belt)	10.5	15		415	6.9
	1625 (Belt)	15	18.5		510	8.5
	1750 (Belt)	17.2	22		535	8.9

2BE1 153 Performance Curves



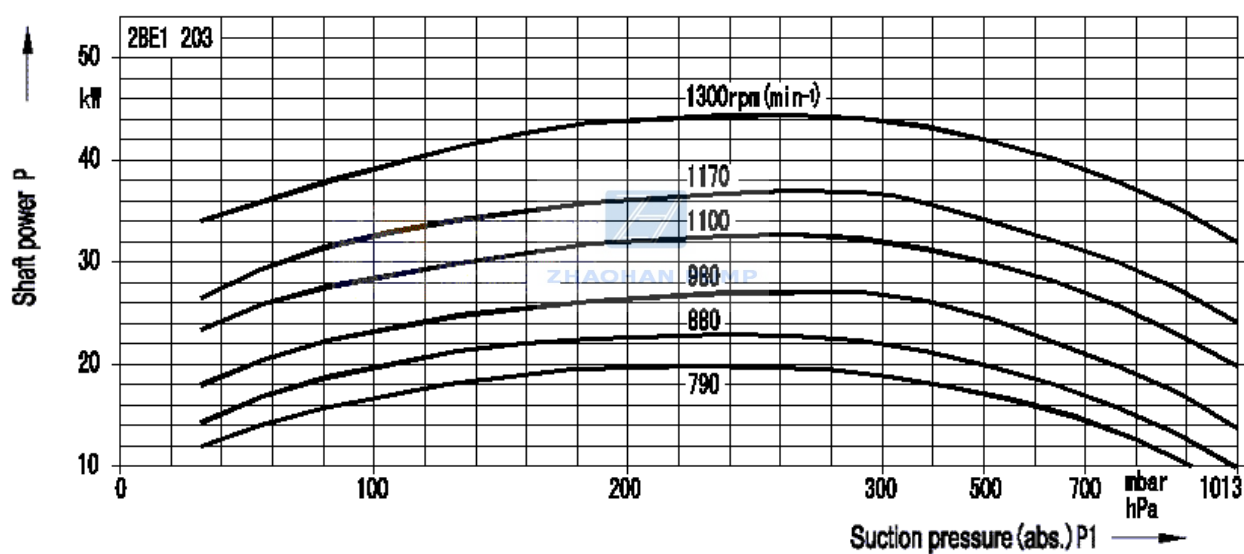
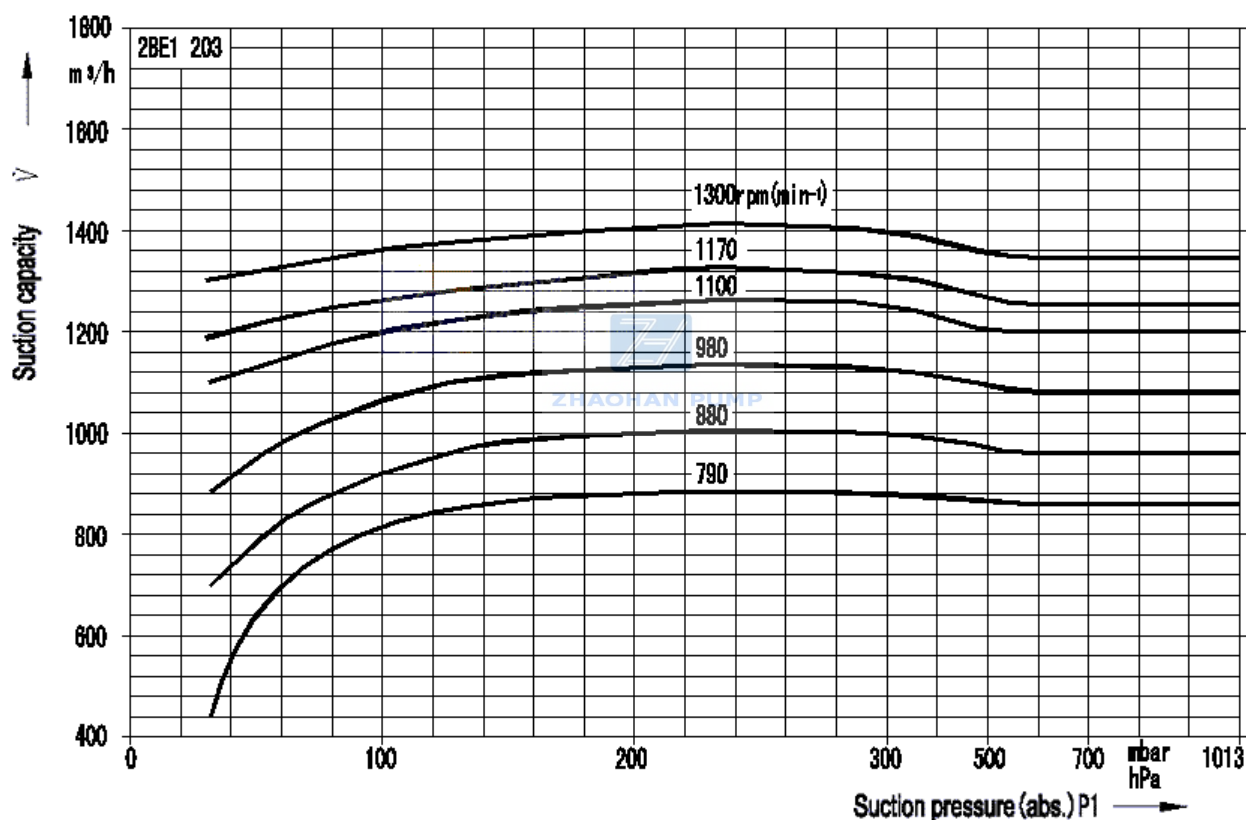
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m^3/h	m^3/min
2BE1 153	1450 (Direct)	16.3	18.5	33mbar (-0.098MPa)	600	10
	1100 (Belt)	10.6	15		445	7.4
	1300 (Belt)	13.6	18.5		540	9.0
	1625 (Belt)	19.6	22		660	11
	1750 (Belt)	22.3	30		700	11.7

2BE1 202 Performance Curves



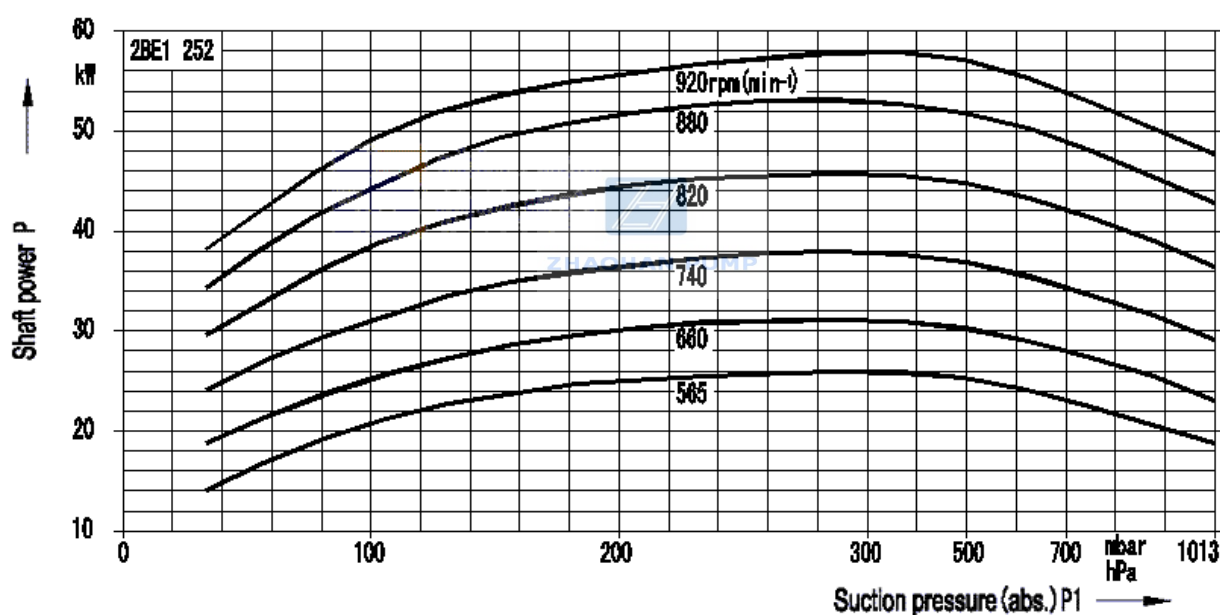
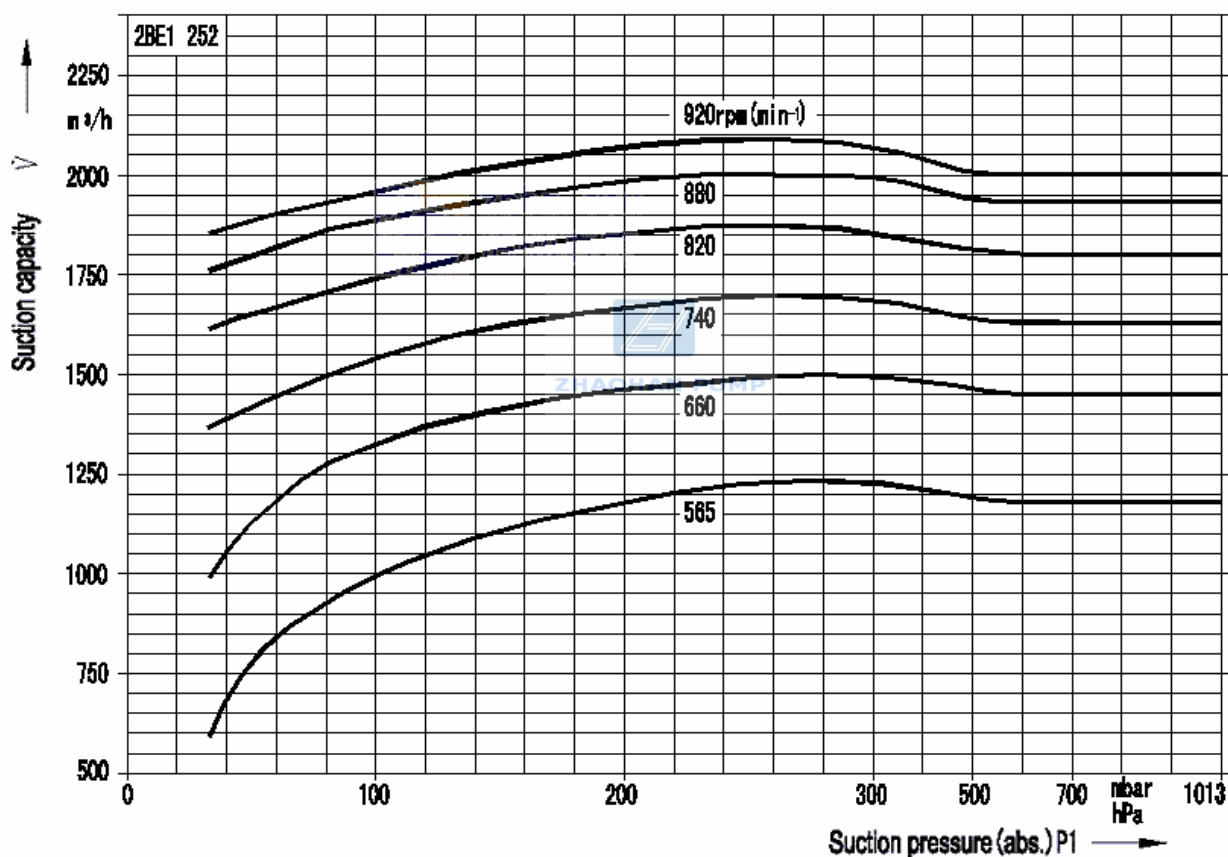
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 202	970(Direct)	17	22	33mbar (-0.098MPa)	760	12.7
	790(Belt)	14	18.5		590	9.8
	880(Belt)	16	18.5		670	11.2
	1100(Belt)	22	30		850	14.2
	1170(Belt)	25	30		890	14.8
	1300(Belt)	30	37		950	15.8

2BE1 203 Performance Curves



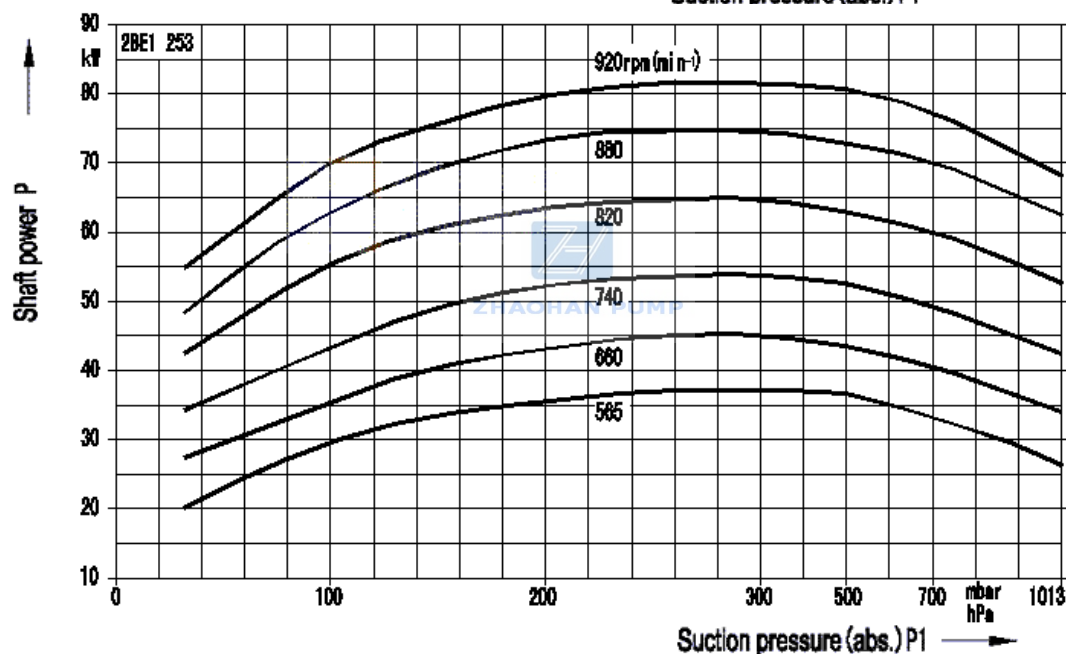
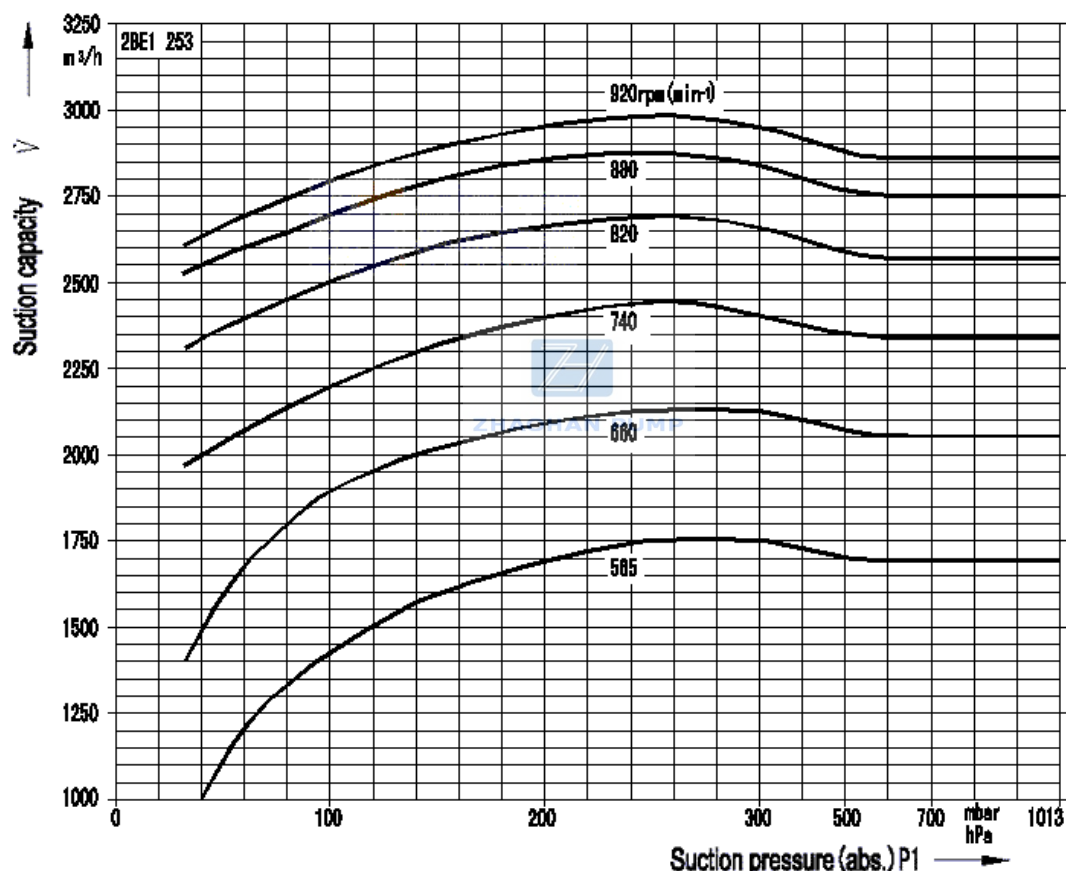
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 203	970(Direct)	27	37	33mbar (-0.098MPa)	1120	18.7
	790(Belt)	20	30		880	14.7
	880(Belt)	23	30		1000	16.7
	1100(Belt)	33	45		1270	21.2
	1170(Belt)	37	45		1320	22
	1300(Belt)	45	55		1400	23.3

2BE1 252 Performance Curves



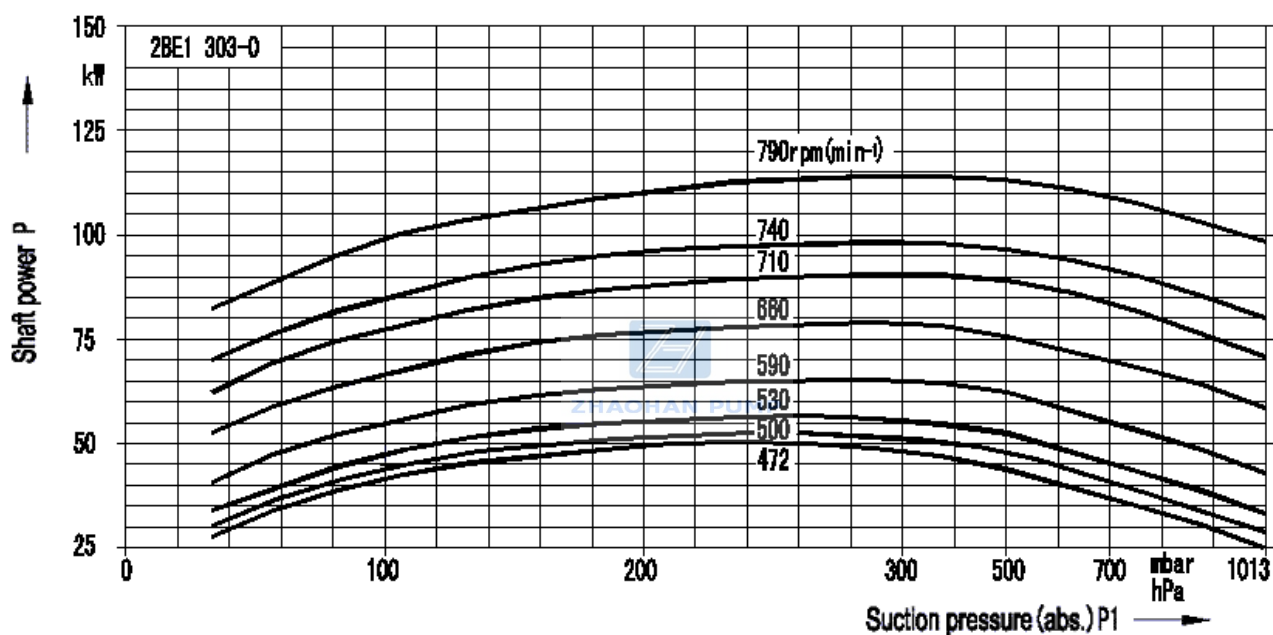
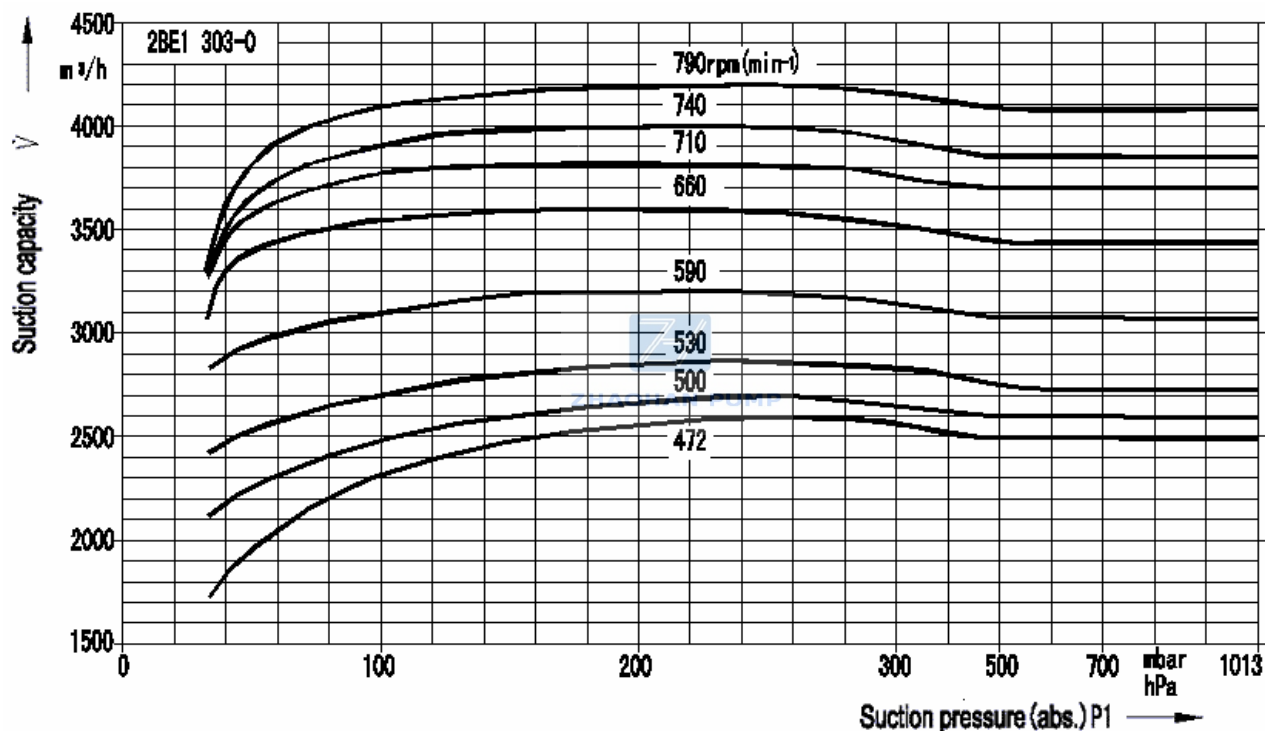
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1252	740(Direct)	38	45	33mbar (-0.098MPa)	1700	28.3
	558(Belt)	26	30		1200	20
	660(Belt)	31.8	37		1500	25
	832(Belt)	49	55		1850	30.8
	885(Belt)	54	75		2000	33.3
	938(Belt)	60	75		2100	35

2BE1 253 Performance Curves



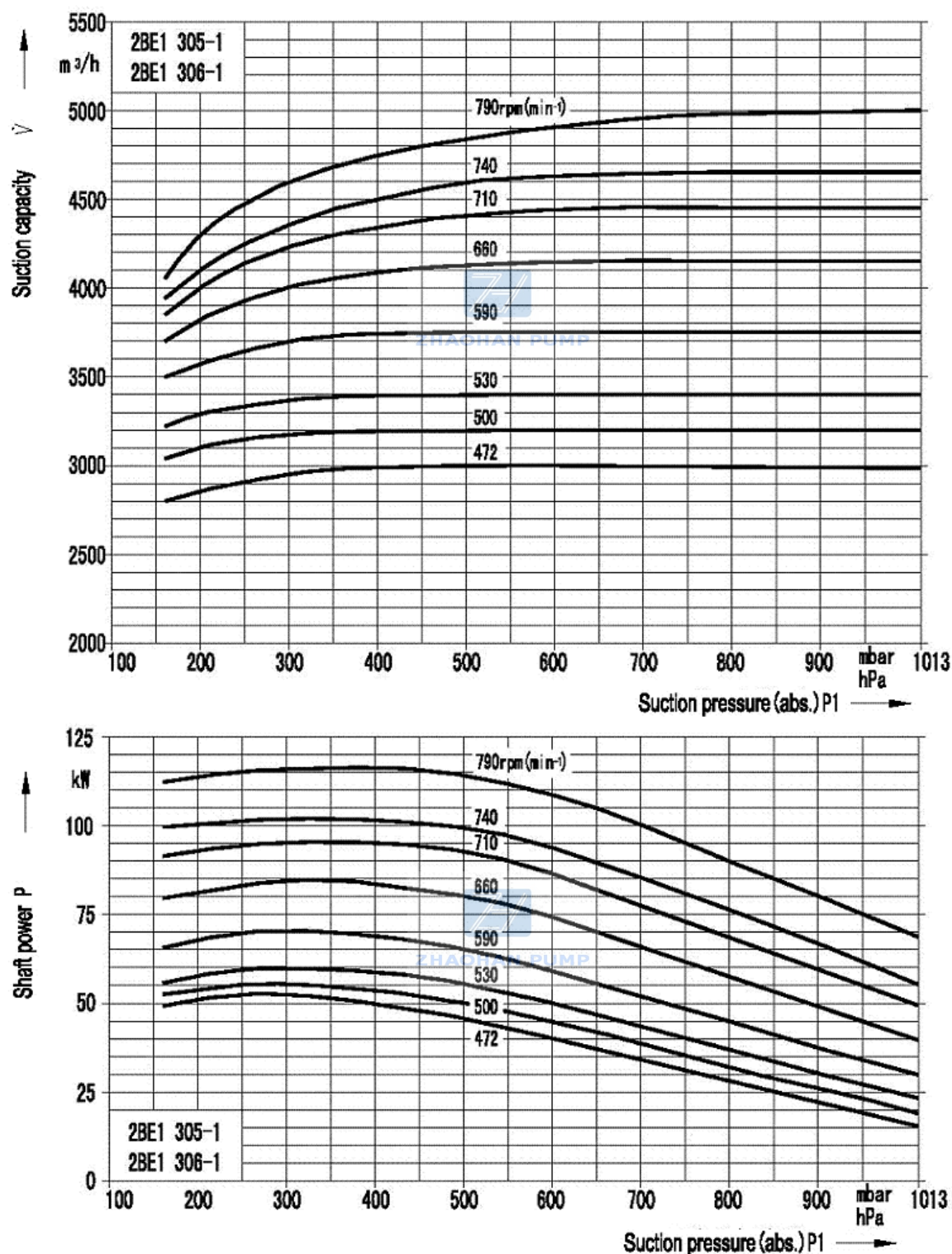
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 253	740(Direct)	54	75	33mbar (-0.098MPa)	2450	40.8
	560(Belt)	37	45		1750	29.2
	660(Belt)	45	55		2140	35.7
	740(Belt)	54	75		2450	40.8
	792(Belt)	60	75		2560	42.7
	833(Belt)	68	90		2700	45
	885(Belt)	77	90		2870	47.8
	938(Belt)	86	110		3020	50.3

2BE1 303 Performance Curves



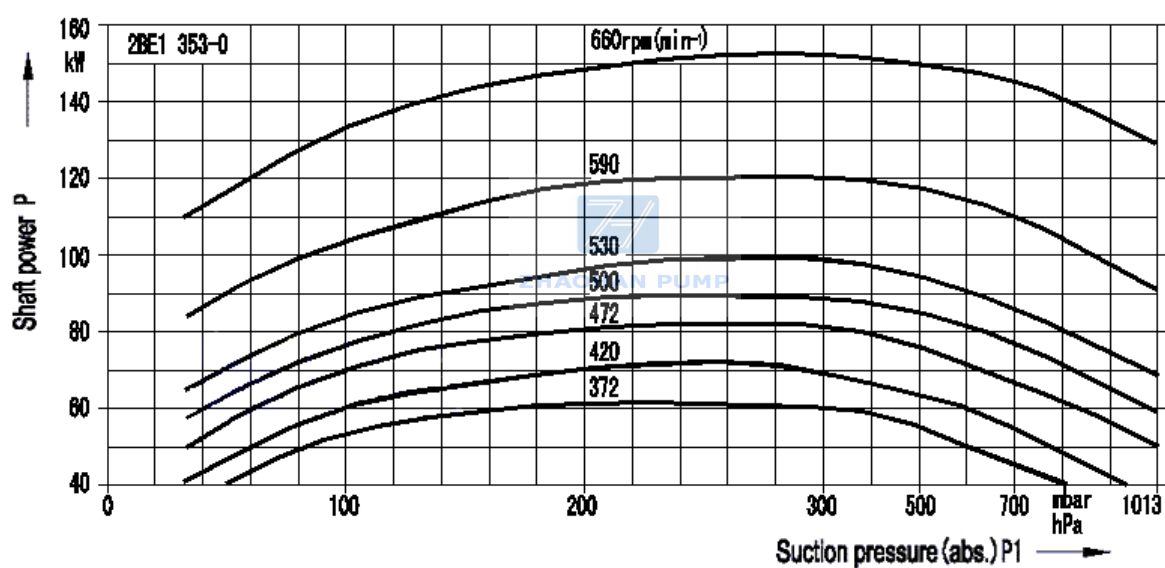
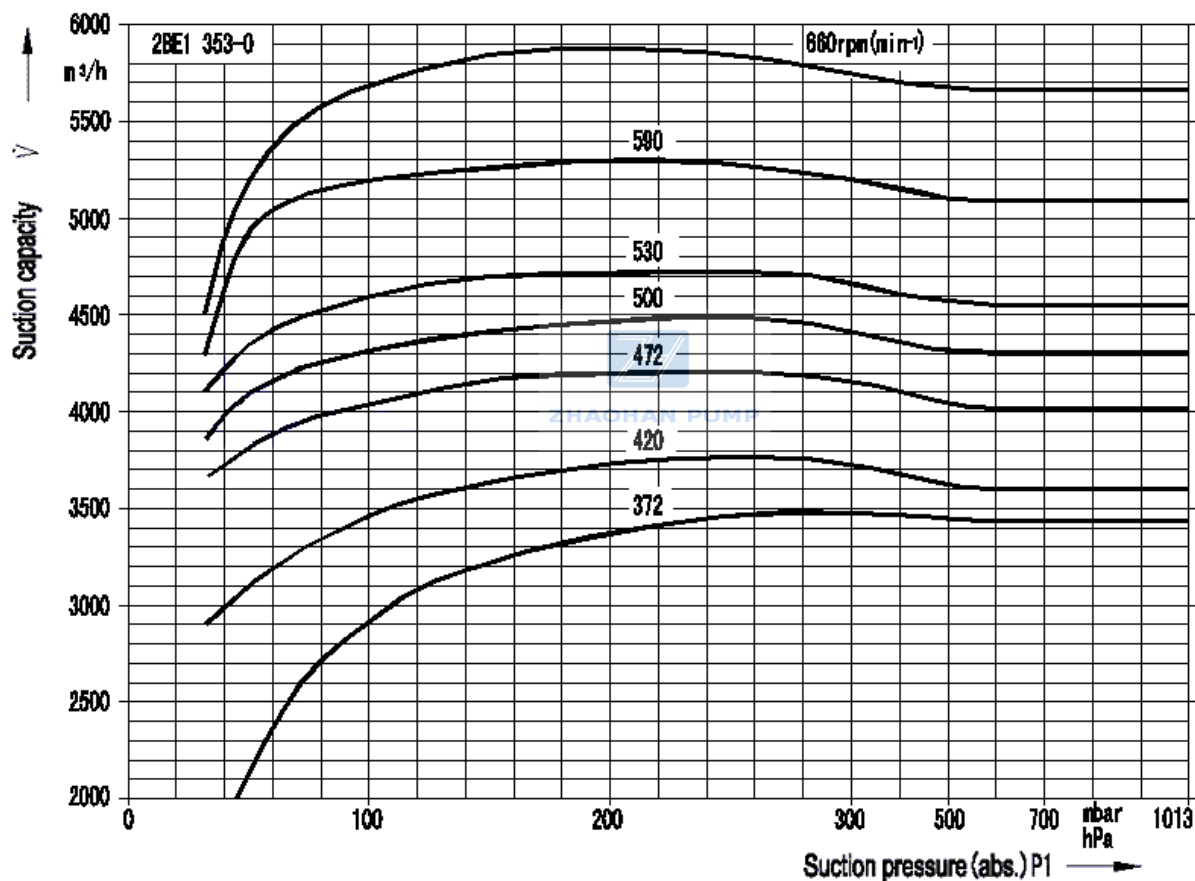
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1303	740(Direct)	98	110	33mbar (-0.098MPa)	4000	66.7
	590(Direct)	65	75		3200	53.3
	466(Belt)	48	55		2500	41.7
	521(Belt)	54	75		2800	46.7
	583(Belt)	64	75		3100	51.7
	657(Belt)	78	90		3580	59.7
	743(Belt)	99	132		4000	66.7

2BE1 305 / 306 Performance Curves



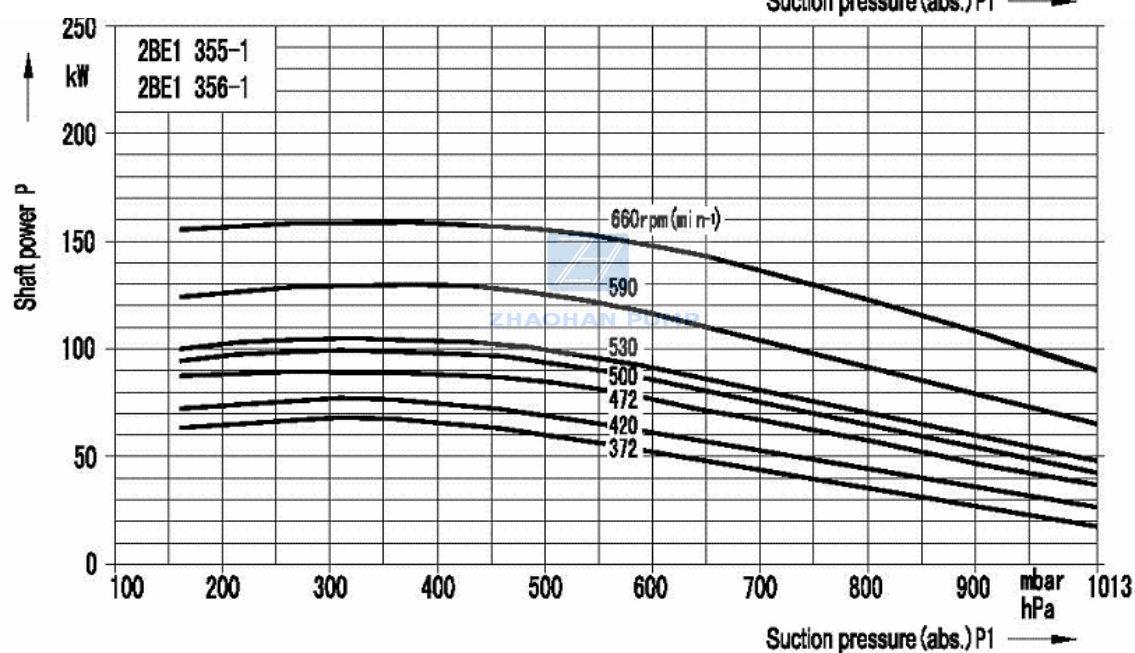
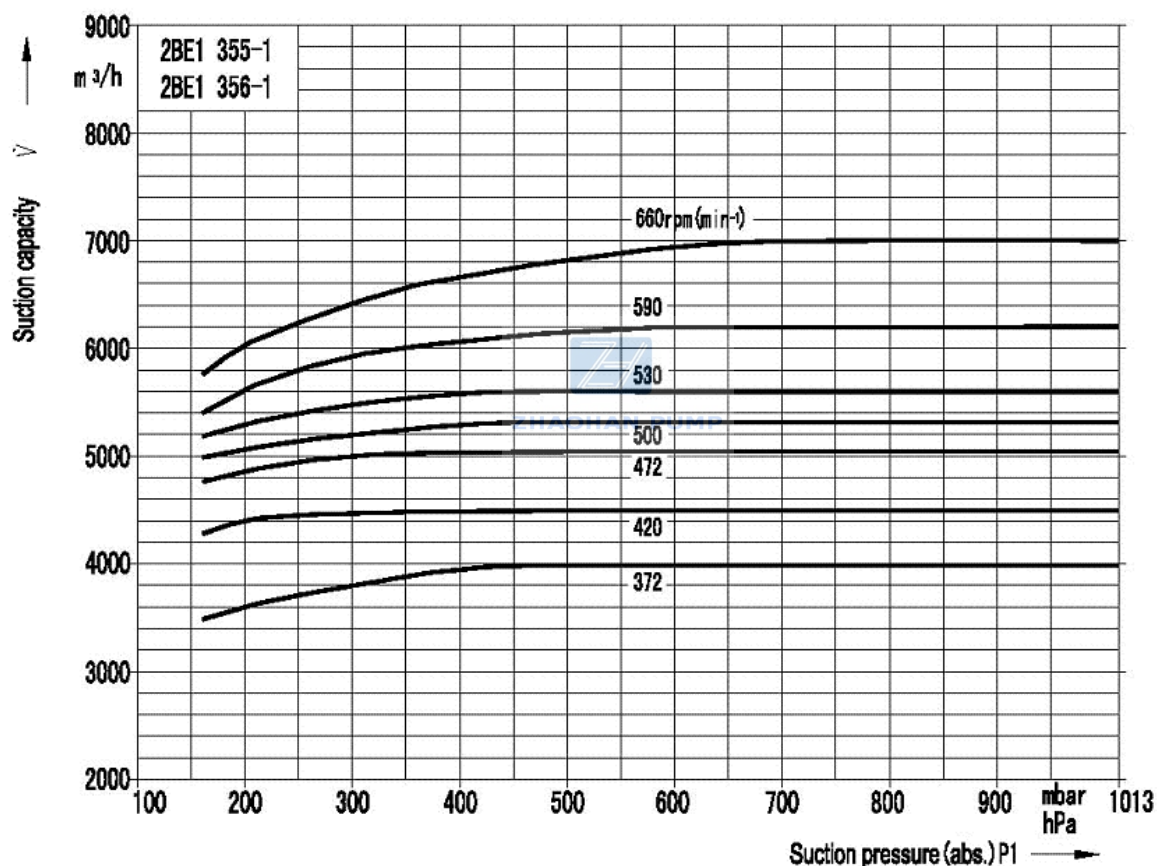
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m³/h	m³/min
2BE1 305 2BE1 306	740 (direct)	102	132	160mbar (-0.085MPa)	4650	77.5
	590 (direct)	70	90		3750	62.5
	490 (belt)	55	75		3150	52.5
	521 (belt)	59	75		3320	55.3
	583 (belt)	68	90		3700	61.2
	657 (belt)	84	110		4130	68.8
	743 (belt)	103	132		4650	77.5

2BE1 353 Performance Curves



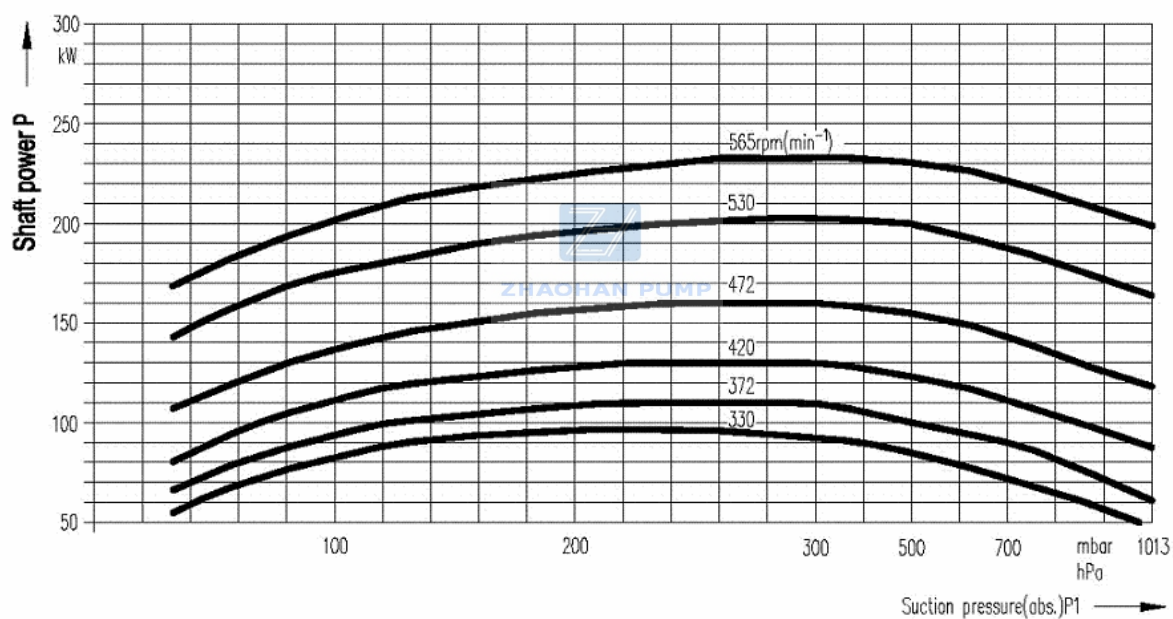
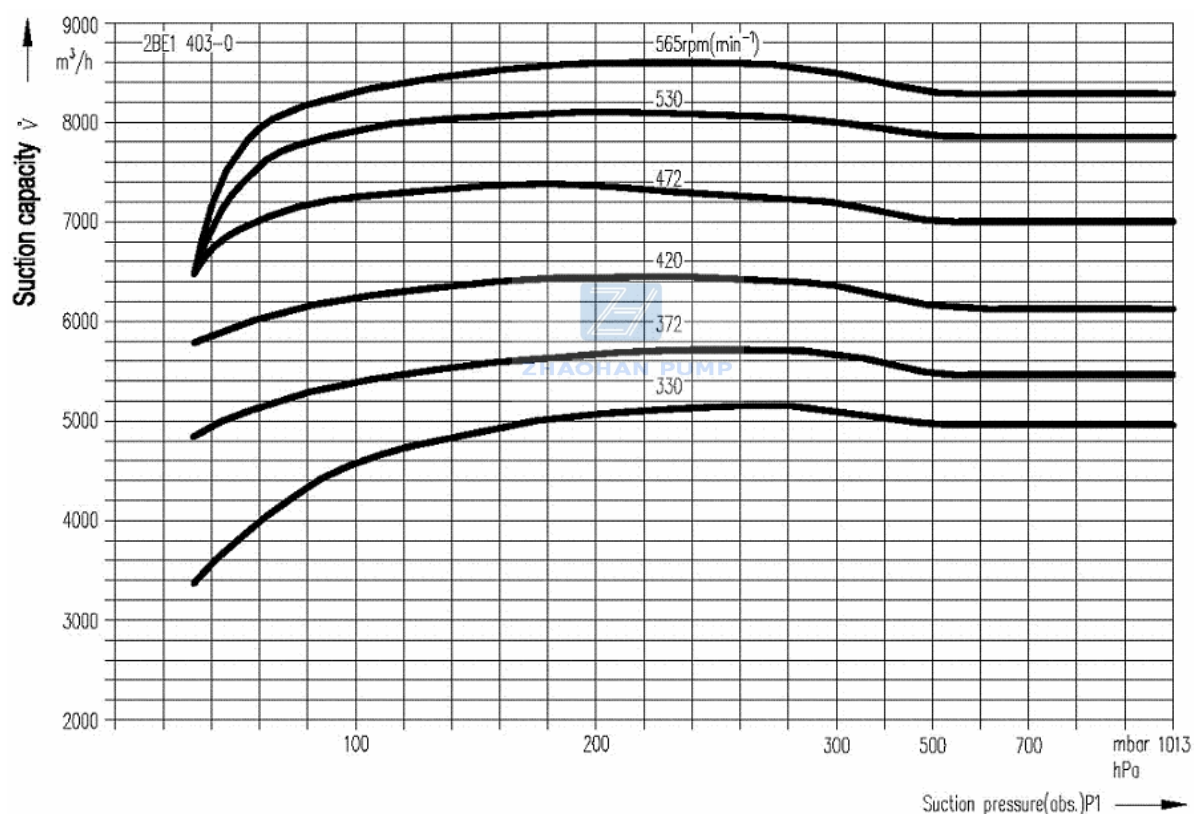
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m^3/h	m^3/min
2BE1 353	592(Direct)	121	160	33mbar (-0.098MPa)	5300	88.3
	390(Belt)	65	75		3580	59.7
	415(Belt)	70	90		3700	61.7
	464(Belt)	81	110		4100	68.3
	520(Belt)	97	132		4620	77.0
	585(Belt)	121	160		5200	86.7
	620(Belt)	133	160		5500	91.7
	660(Belt)	152	185		5850	97.5

2BE1 355 / 356 Performance Curves



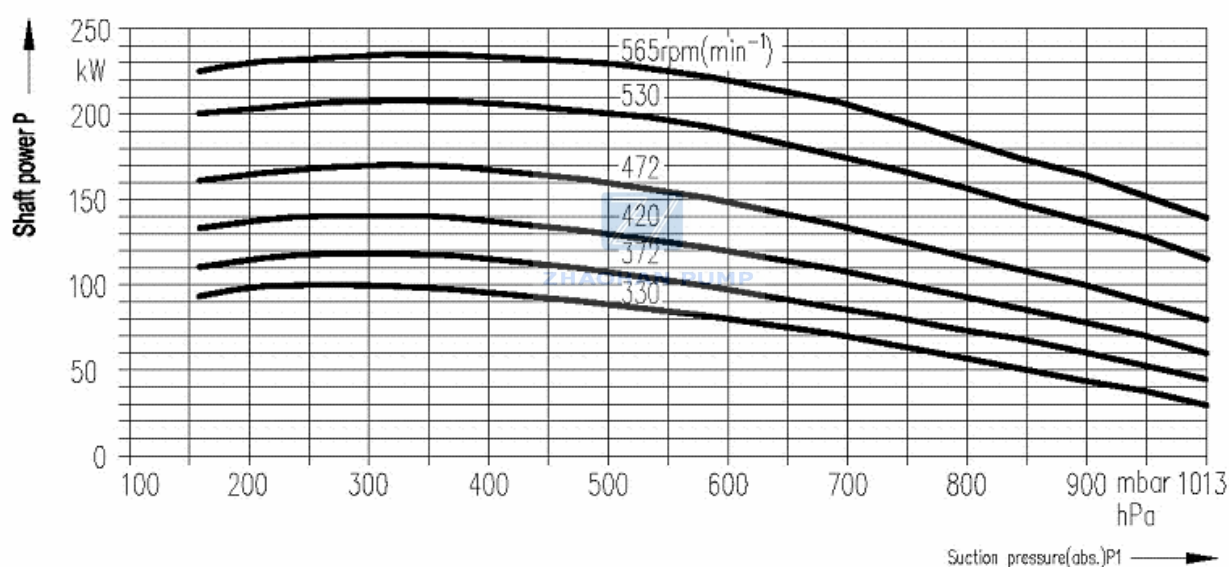
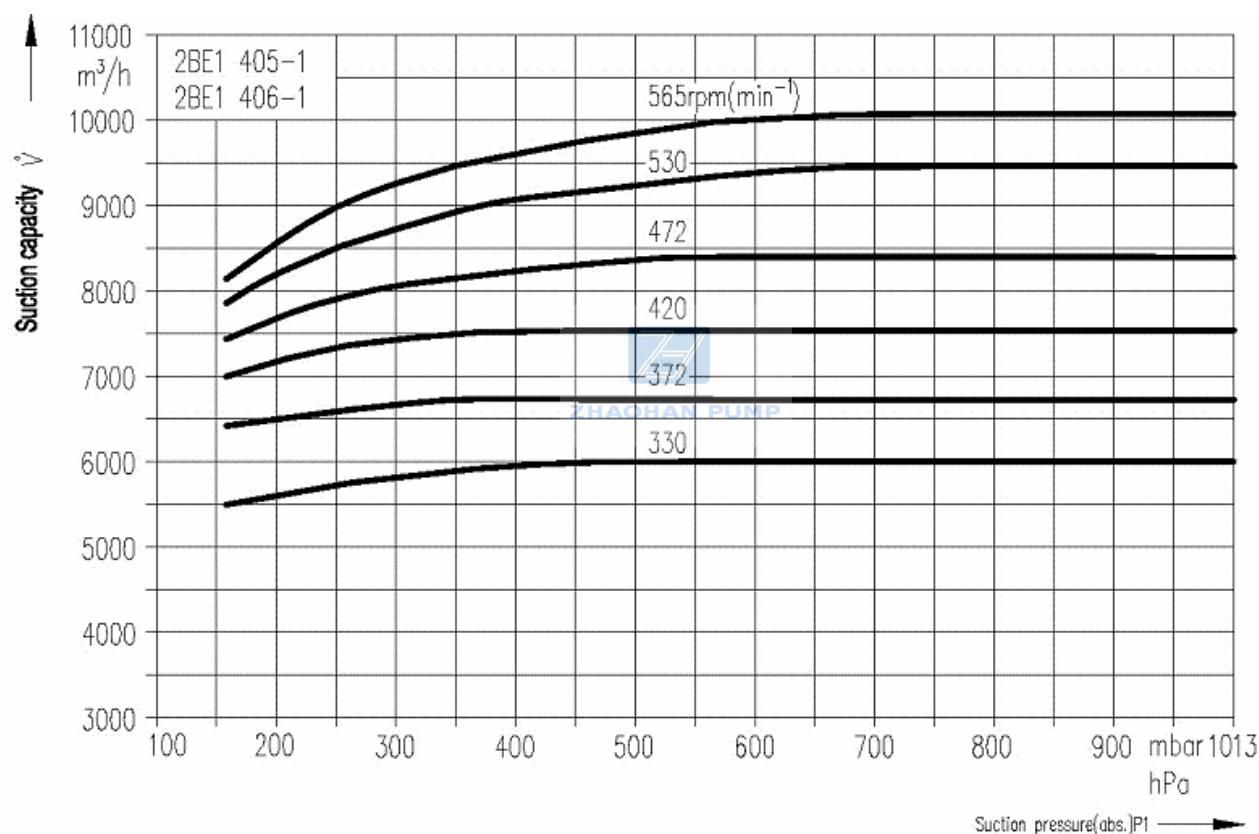
Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m^3/h	m^3/min
2BE1 355 2BE1 356	590(Direct)	130	160	160mbar (-0.085MPa)	6200	103.3
	390(Belt)	75	90		4180	69.7
	435(Belt)	86	110		4600	76.7
	464(Belt)	90	110		4850	80.8
	520(Belt)	102	132		5450	90.8
	555(Belt)	115	132		5800	98.3
	585(Belt)	130	160		6100	101.7
	620(Belt)	145	185		6350	105.8

2BE1 403 Performance Curves



Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m^3/h	m^3/min
2BE1 403	330(Belt)	97	132	33mbar (-0.098MPa)	5160	86
	372(Belt)	110	132		5700	95
	420(Belt)	131	160		6470	107.8
	472(Belt)	160	200		7380	123
	530(Belt)	203	250		8100	135
	565(Belt)	234	280		8600	143.3

2BE1 405 Performance Curves



Model	Speed(RPM) coupling type	Shaft power (kW)	Motor (kW)	Limit Vacuum (mbar)	Suction Capacity	
					m ³ /h	m ³ /min
2BE1405 2BE1406	330(Belt)	100	132	160mbar (-0.085MPa)	6000	100
	372(Belt)	118	160		6700	111.7
	420(Belt)	140	185		7500	125
	472(Belt)	170	200		8350	139.2
	530(Belt)	206	250		9450	157.5
	565(Belt)	235	280		10100	168.3

Notes: the above curve is obtained under the following conditions

1. Discharge pressure is 1013mbar.
2. saturated air temperature is 20℃
3. The operating liquid temperature is 15℃
4. Allowance tolerance is $\pm 5\%$

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