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The advertisement for Hanthing Water pumps features a blue and white color scheme. On the left is the Hanthing logo, a stylized blue 'S' shape above the word 'Hanthing' in blue. To the right of the logo is a collage of images showing various pump models and components. A large yellow diagonal banner across the center reads 'Water pump'. To the right of the banner, four blue boxes list pump types: 'Inline', 'Split case', 'Multi stage', and 'End suction'. At the bottom, the website 'www.hanthing.com' is displayed in white on a blue background.

Hanthing

Water pump

Inline
Split case
Multi stage
End suction

www.hanthing.com



The advertisement for Exthin Air Compressors features a black and yellow color scheme. On the left is the Exthin logo, a stylized yellow 'X' shape above the word 'Exthin' in yellow. To the right of the logo is a collage of images showing various compressor models and components. A large yellow diagonal banner across the center reads 'Air Compressor'. To the right of the banner, three black boxes list compressor types: 'Portable', 'Screw', and 'Piston'. At the bottom right is a large image of a blue and silver industrial compressor unit. At the top, the website 'www.exthin.com' is displayed in white on a black background.

www.exthin.com

Exthin

Air Compressor

Portable
Screw
Piston

ShangHai HanThing pump Co.,ltd
Website: www.hanthing.com
Address: NO.566, Tongli road, songjiang district, Shanghai, China
Mobile: +86-021-56550238
Email: sales@hanthing.com

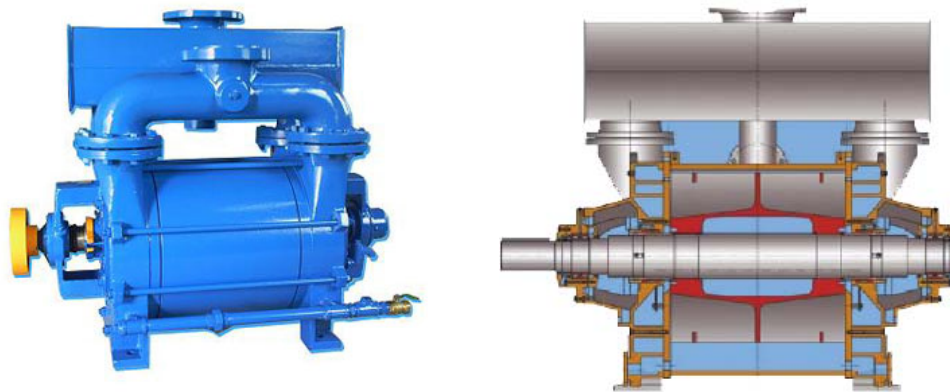


国家产品质量免检 | 中国著名品牌

2BE3系列立水环真空泵

2BE3 Series Water Ring Vacuum Pump





The application range and characteristics:

2BE3 series liquid ring vacuum pumps and compressors are designed and manufactured by our company integrating with the advanced technology abroad. They are not only can save energy, but also can work constantly for a long time.

Under the rough vacuum situation, the requirements for the liquid ring vacuum pumps are very rigorous. So the 2BE3 series products are designed for pumping various gases. They are widely used in many industries, such as, the paper, mine, power station, chemical etc.

2BE3 series products can be driven with many different sets, such as, the V-belt, synchronal motor, gear box etc. In order to save space, more than two or at most four sets of the 2BE3 series pumps can be driven by one motor simultaneously.

When set a middle wall in the casing, the pressure tolerance between the two sides is lower than 80kPa and the two parts can work in different vacuum status respectively. Thus one pump can work well like two. Hereby the product operating flexibility is improved effectively.

The main characteristics of 2BE3 series products:



- The tolerance, corrosive status, and the begrike situation can be easily observed by the big inspection port on both sides of the end-shield.
- The 2BE3 series pumps have flanges both on the top and sides with the same diameter. It is more convenient to connect with the 2BE3 series pumps.
- The bearings are all used of the imported products in order to keep the precise orientation and the high stability during the working of the pump.
- The material of the impeller is QT400 nodular iron or steel plates for ensuring the stability of the pump under the various rigorous situations and extending the life of the pump effectively.
- The casing is made of steel or stainless steel plates to extend the lifetime of the 2BE3 series pumps.
- The shaft bushing is made of stainless steel plates to extend the life of the pumps 5 times more than the normal material.
- The V-belt pulley (when the pump is driven by the belt) is used of the high precise pulley with taper bushing to keep the reliability of the pump and extend its life. And it is also easy to mantle and dismantle.
- The unique design of setting the separator above the pump saves the space and decreases the noise efficiently.
- All the spare parts are cast by the resin sands that make the surface of the pump very smooth. So it is not necessary to cover the surface of the pump with putty and gives out the heat efficiently.
- The mechanical seals (optional) are all used the imported products so as to avoid the leakage during the working of the pump for a long time.

2BE3 series vacuum pump technology parameter

Type	Speed (Drive type) r/min	Max shaft power kW	Motor Power kW	Suction Capacity		Limited vacuum (abs) mbar	Weight of bare pump with separator kg
				m ³ /h	m ³ /min		
2BE3 400	340(V-Belt/gear box)	82	110	4850	80.8	160	3275
	390(V-Belt/gear box)	95	110	5650	94.2		
	440(V-Belt/gear box)	115	132	6250	104.2		
	490(V-Belt/gear box)	134	160	6900	115.0		
	530(V-Belt/gear box)	148	185	7470	124.5		
	570(V-Belt/gear box)	167	200	8000	133.3		
	610(V-Belt/gear box)	189	220	8600	143.3		
2BE3 420	340(V-Belt/gear box)	108	132	6650	110.8	160	3720
	390(V-Belt/gear box)	132	160	7650	127.5		
	440(V-Belt/gear box)	157	185	8550	142.5		
	490(V-Belt/gear box)	180	200	9400	156.6		
	530(V-Belt/gear box)	204	220	10150	169.2		
	570(V-Belt/gear box)	229	250	10700	178.3		
	610(V-Belt/gear box)	260	315	11600	193.3		
2BE3 500	260(gear box)	142	160	8700	145.0	160	6110
	300(gear box)	171	200	10150	169.2		
	340(gear box)	203	250	11400	190.0		
	380(gear box)	238	280	12700	211.7		
	420(gear box)	277	315	13800	230.0		
	470(gear box)	338	400	15500	258.3		

2BE3 520	260(gear box)	172	200	10700	178.3	160	6740
	300(gear box)	210	250	12300	205.0		
	340(gear box)	245	280	14000	233.3		
	380(gear box)	288	315	15400	256.7		
	420(gear box)	337	400	16800	280.0		
	470(gear box)	412	500	18700	311.7		
2BE3 600	230(gear box)	205	250	12700	211.7	160	9100
	260(gear box)	243	280	14400	240.0		
	290(gear box)	285	315	16000	266.7		
	320(gear box)	322	355	17500	291.7		
	350(gear box)	365	450	19000	316.7		
	400(gear box)	465	560	21600	360.0		
2BE3 620	230(gear box)	250	280	15600	260.0	160	10700
	260(gear box)	300	355	17700	295.0		
	290(gear box)	340	400	19500	325.0		
	320(gear box)	390	450	21300	355.0		
	350(gear box)	450	500	23200	386.7		
	400(gear box)	570	630	26200	436.7		
2BE3 670	210(gear box)	280	315	18300	305	160	12700
	240(gear box)	350	400	20400	340		
	270(gear box)	415	450	23160	386		
	300(gear box)	465	560	25500	425		
	320(gear box)	523	630	27000	450		
	330(gear box)	545	630	27720	462		
	370(gear box)	670	800	30960	516		
2BE3 720	190(gear box)	345	400	21900	365	160	15700
	210(gear box)	395	450	24300	405		
	240(gear box)	475	560	27480	458		
	270(gear box)	550	630	30540	509		
	300(gear box)	642	710	33780	563		
	340(gear box)	795	900	38100	635		

Notes:

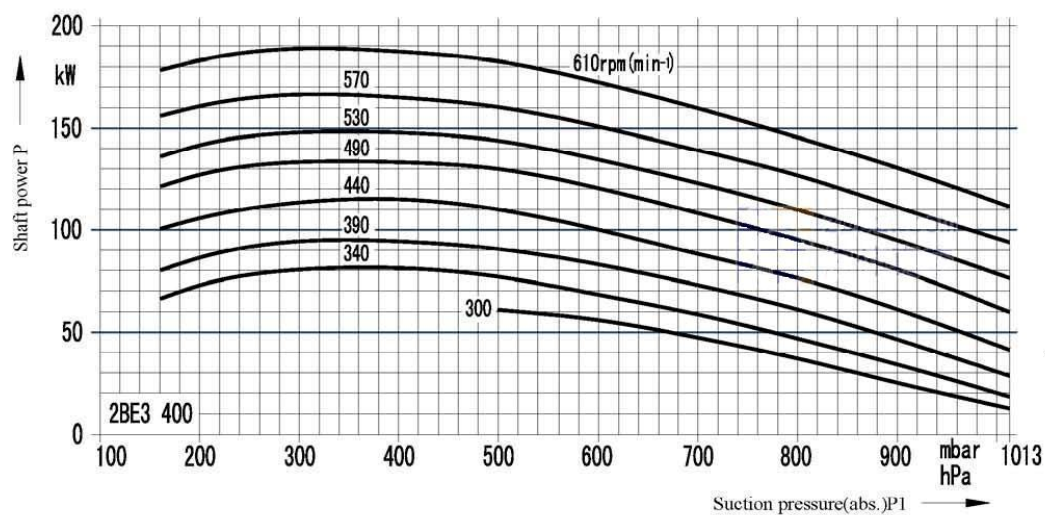
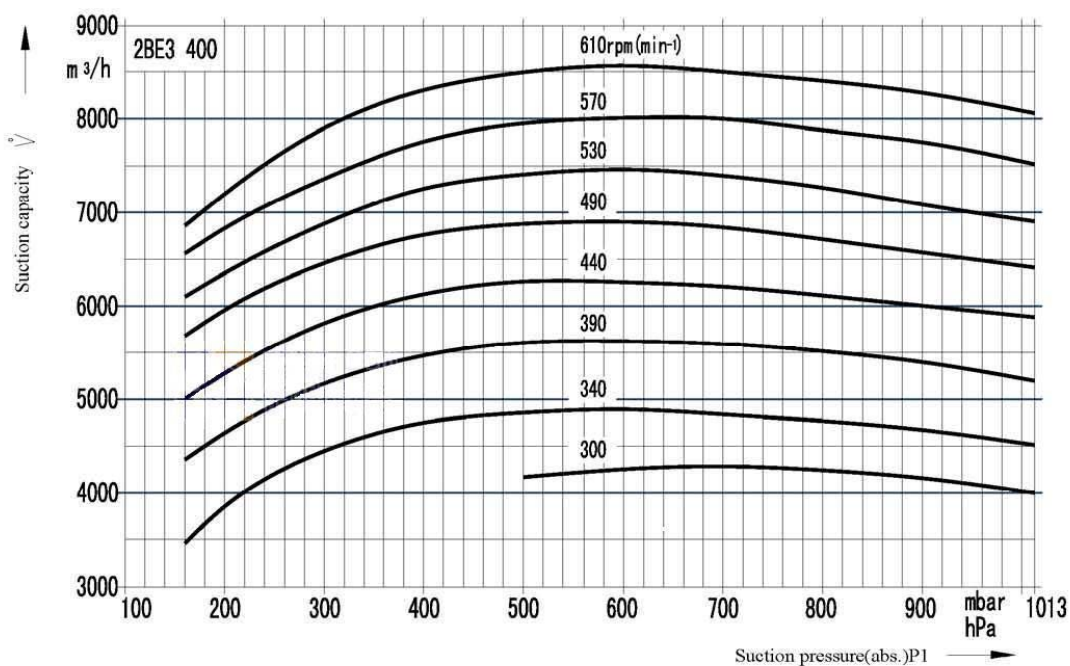
1. The voltage and frequency of the motor can be chosen by the customers' requirements.
2. The above data of the speed are only for reference. The practical speed is confirmed according to the driving type and the customer's requirements.
3. The optional speeds for 2BE3 400/420 pumps driven with V-belt: 327/349/393/446/475/498/527 rpm.
4. We don't recommend to use the V-belt to drive the pump whose suction capacity is larger than the 2BE3 500.
5. The installation dimension of the pump driven by the gear box is confirmed by the supplier of the gear box.
6. The data of the suction capacity in the above table indicates the maximum of the suction capacity. The practical data is various for the different suction pressure.
7. The temperature of the water influences the performance of the pump. The performance data of the pump is obtained when the temperature of the water is at 15°C, so the mending data of the suction capacity is needed when you choose the pump in the practice.

VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 400 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

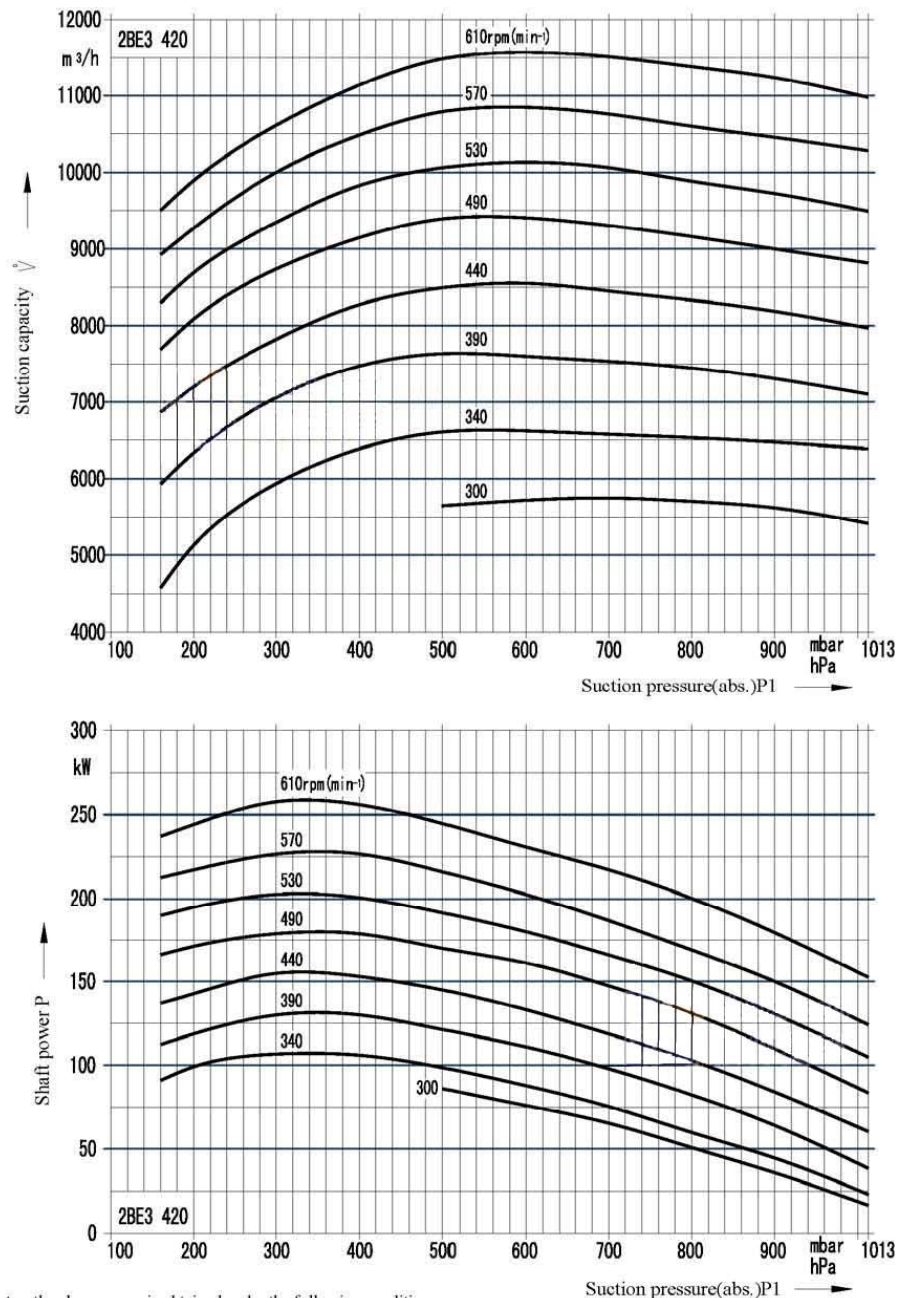
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 420 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

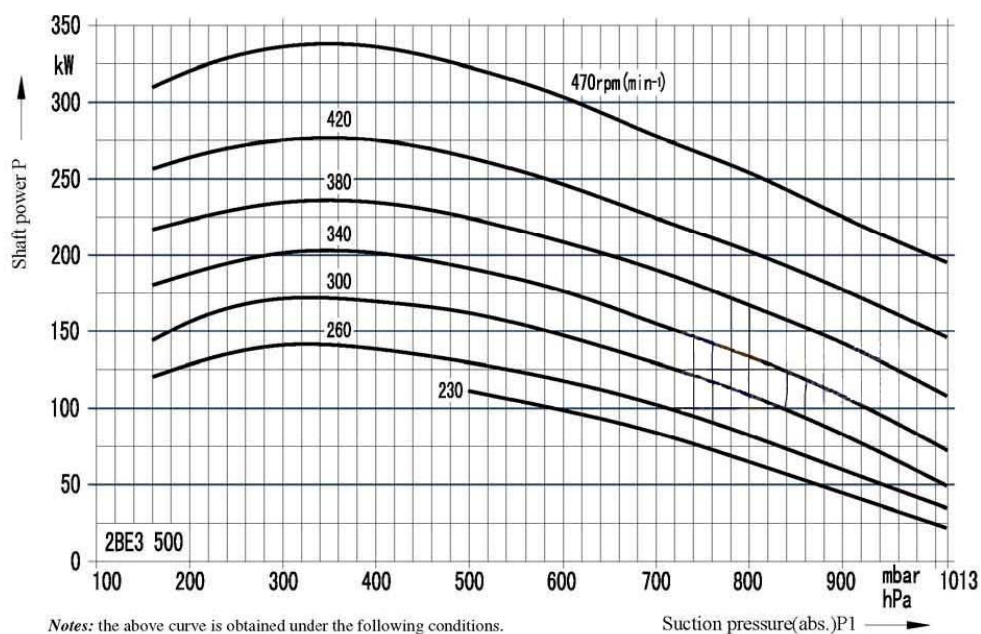
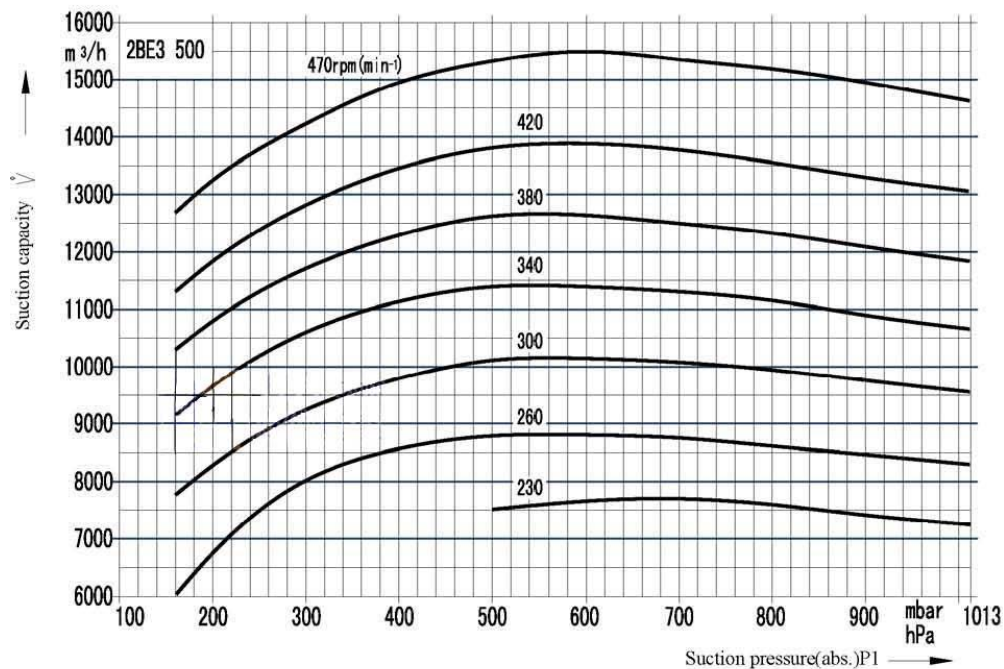
1. Discharge pressure is 1013mbar.
2. Saturated air temperature is 20°C.
3. The operating liquid temperature is 15°C.
4. Allowance tolerance is $\pm 5\%$.

VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 500 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

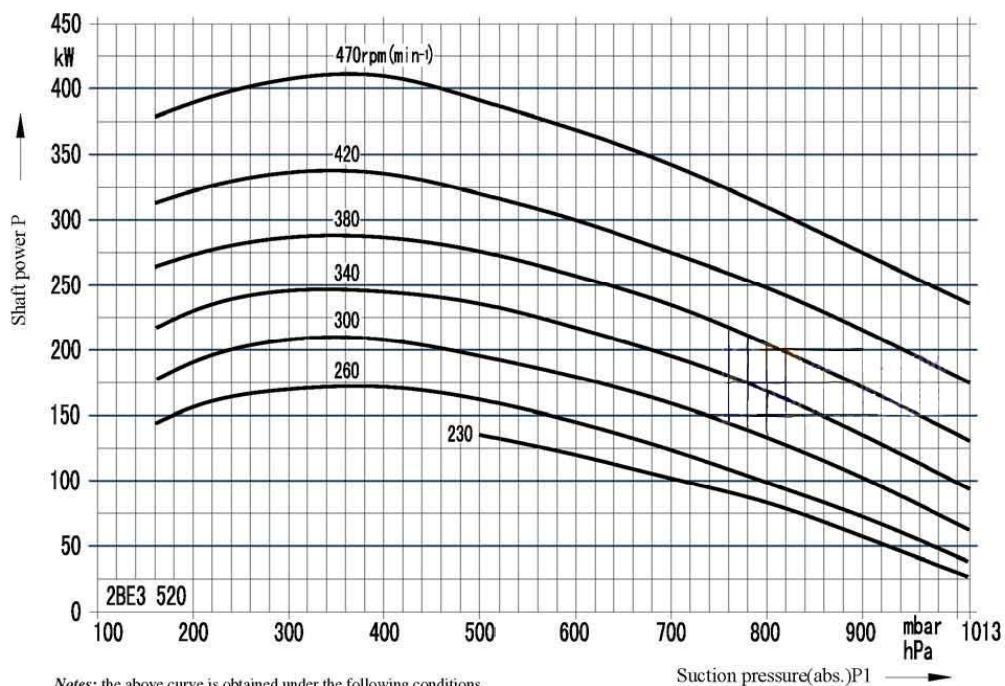
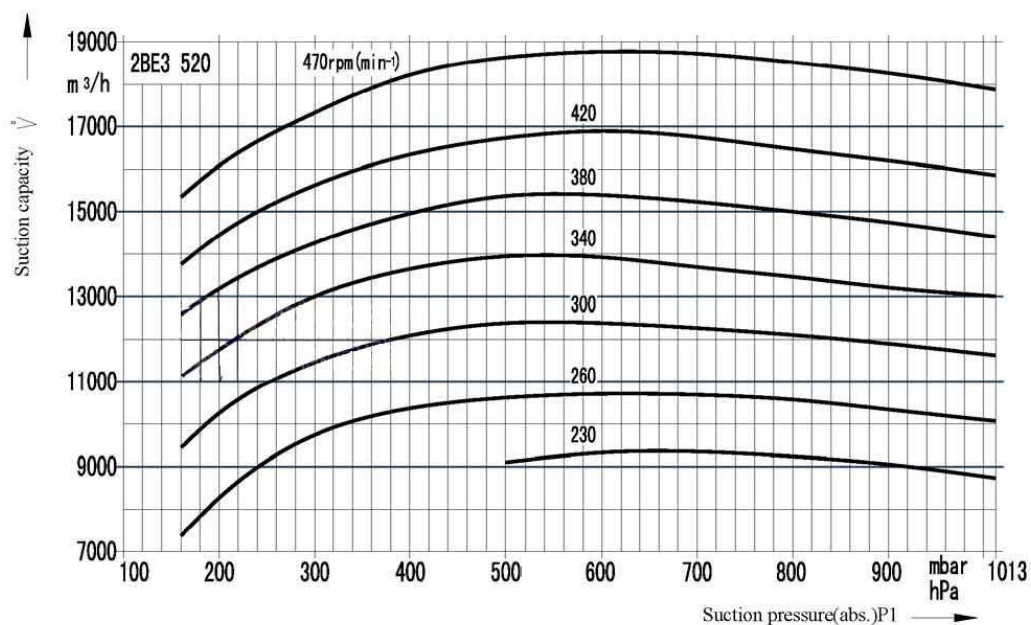
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 520 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

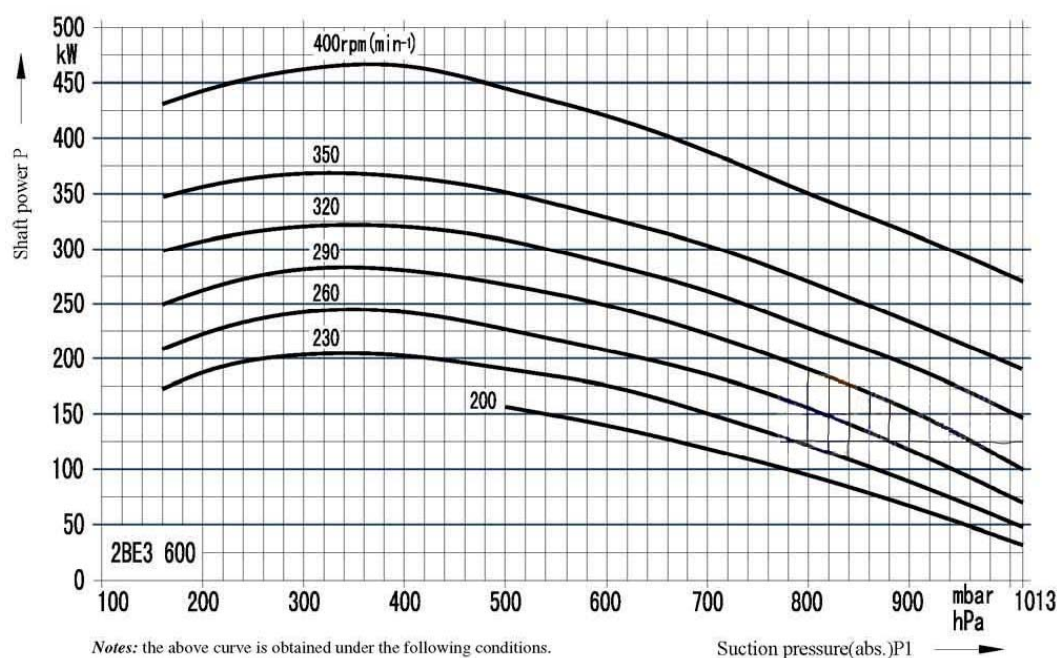
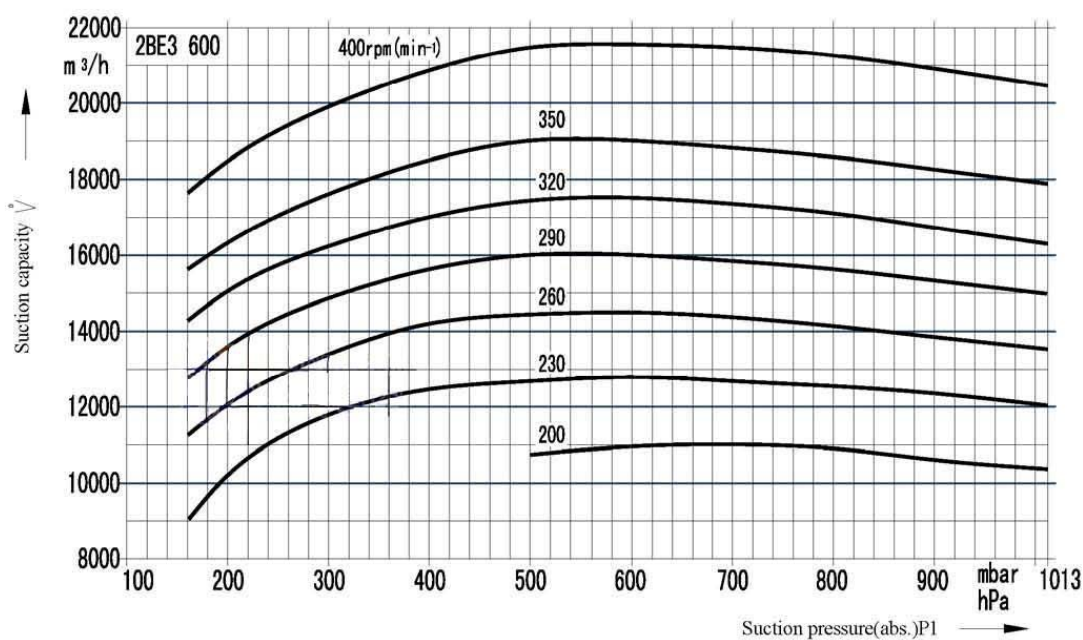
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 600 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

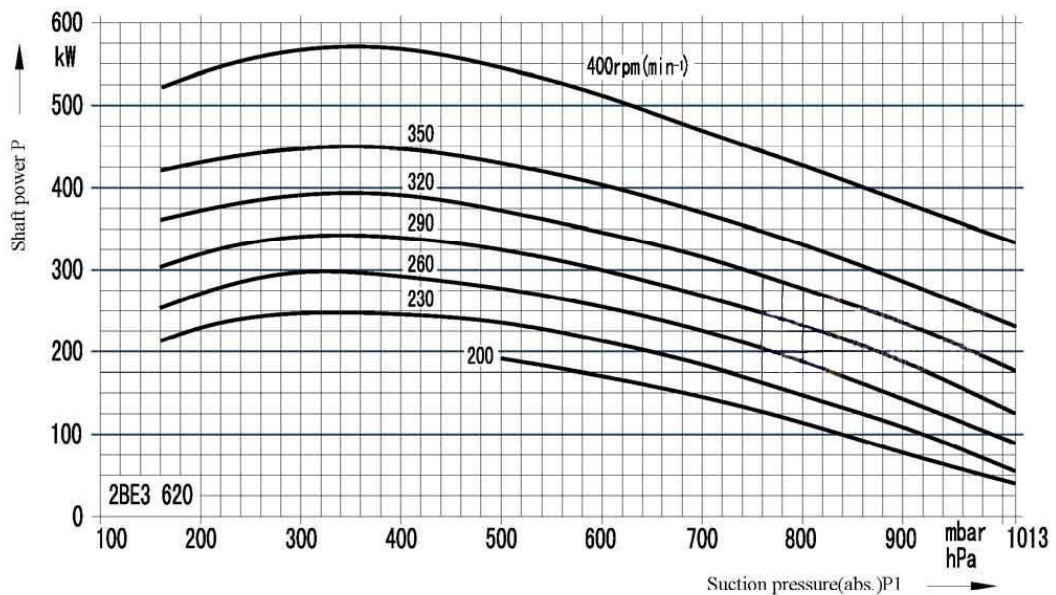
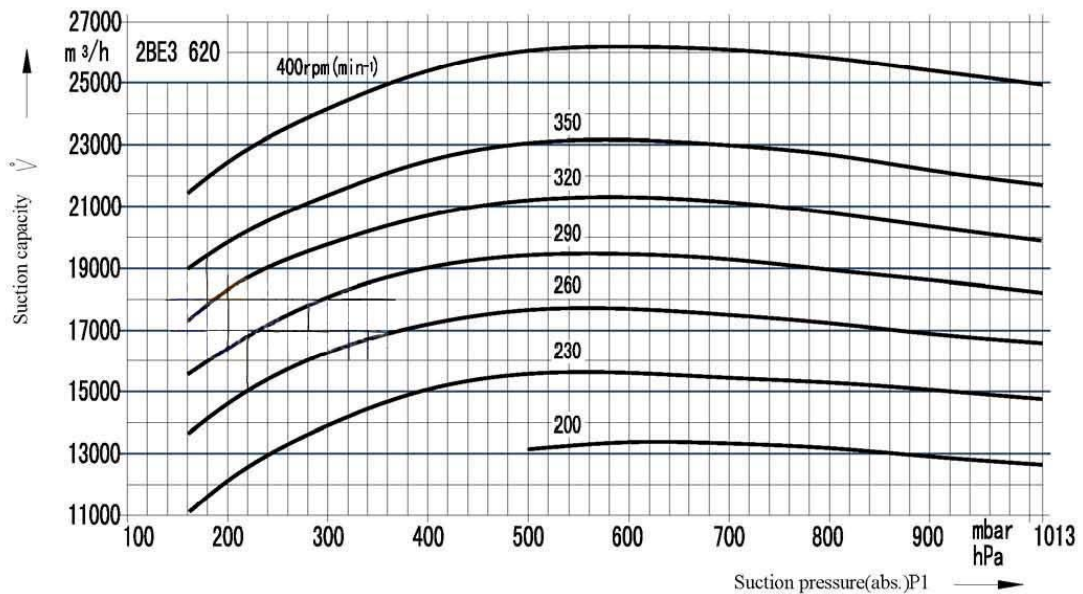
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 620 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

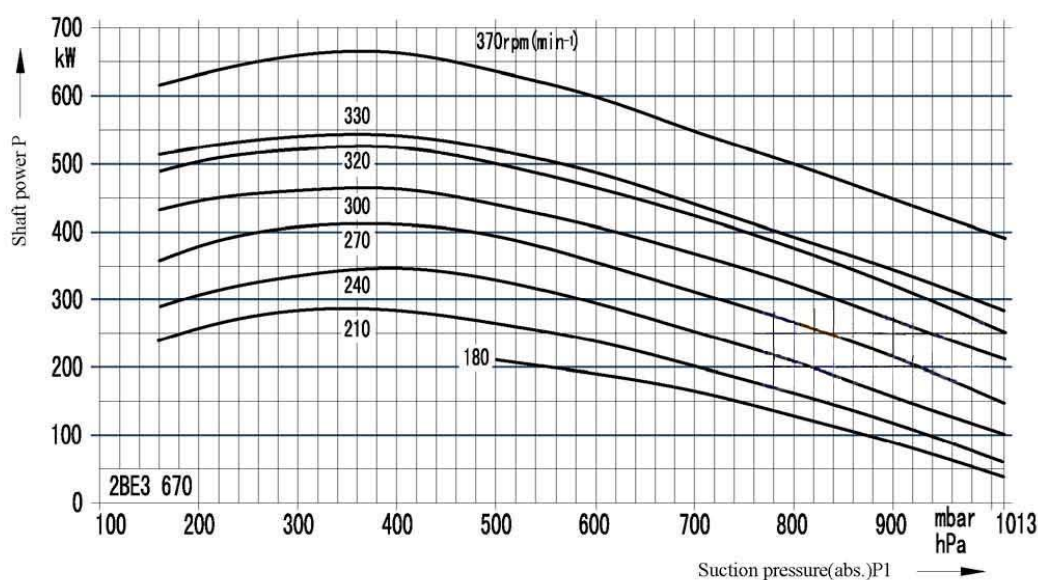
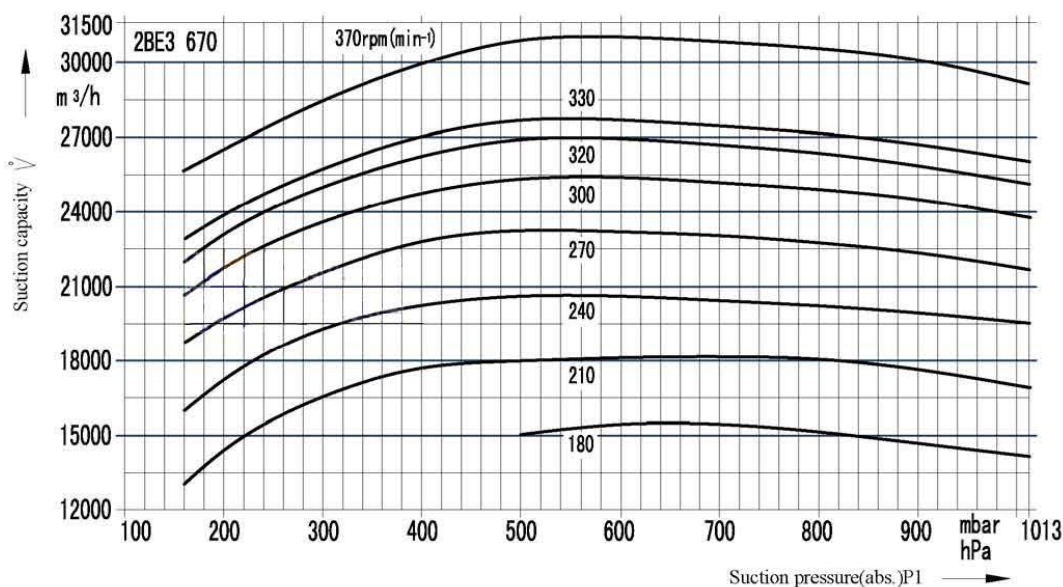
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

➤ The performance curve of the 2BE3 670 series water ring vacuum pumps



Notes: the above curve is obtained under the following conditions.

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

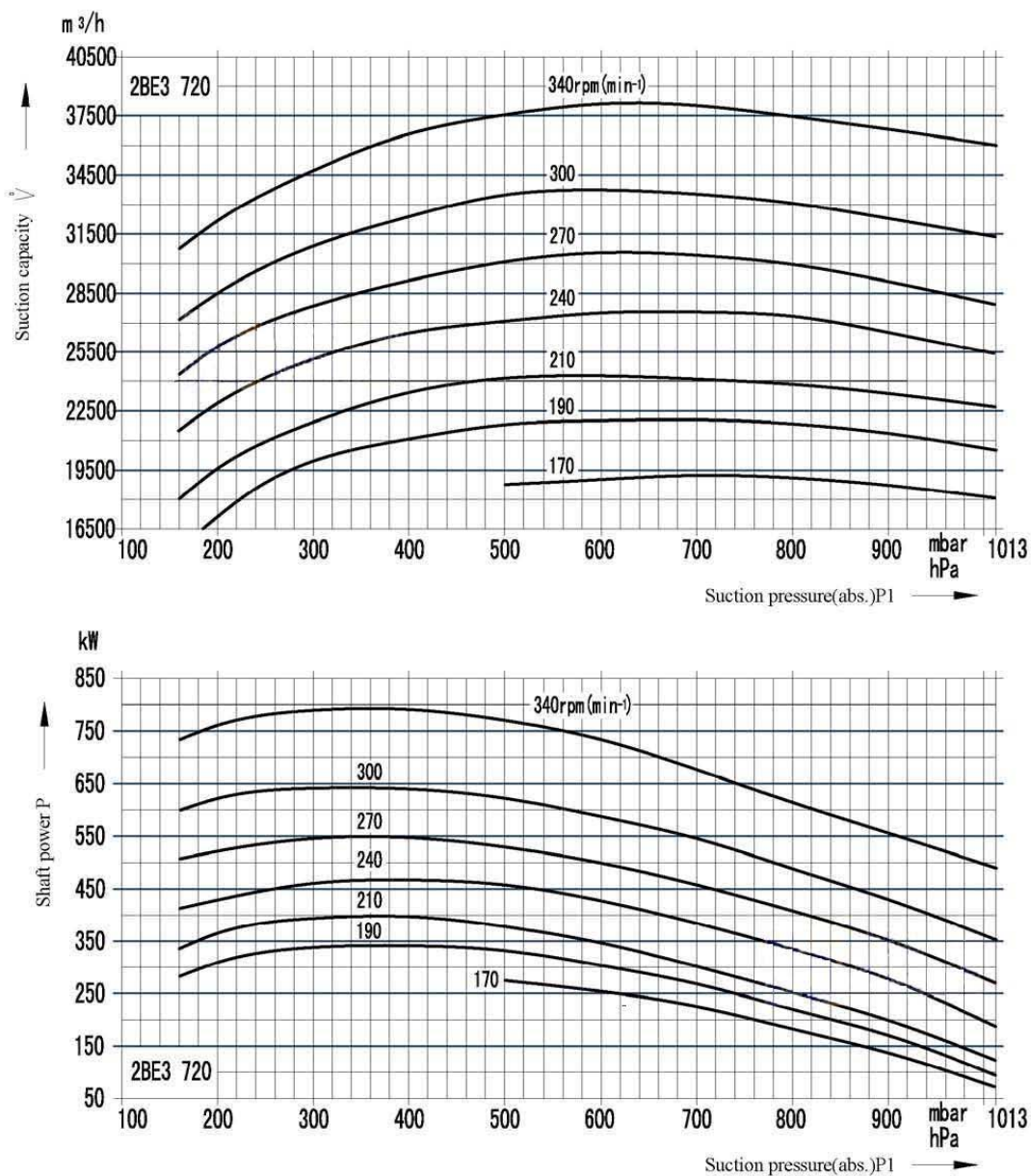
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VACUUM EQUIPMENT

2BE3 series water ring vacuum pumps and compressors

The performance curve of the 2BE3 series water ring vacuum pumps

► The performance curve of the 2BE3 720 series water ring vacuum pumps

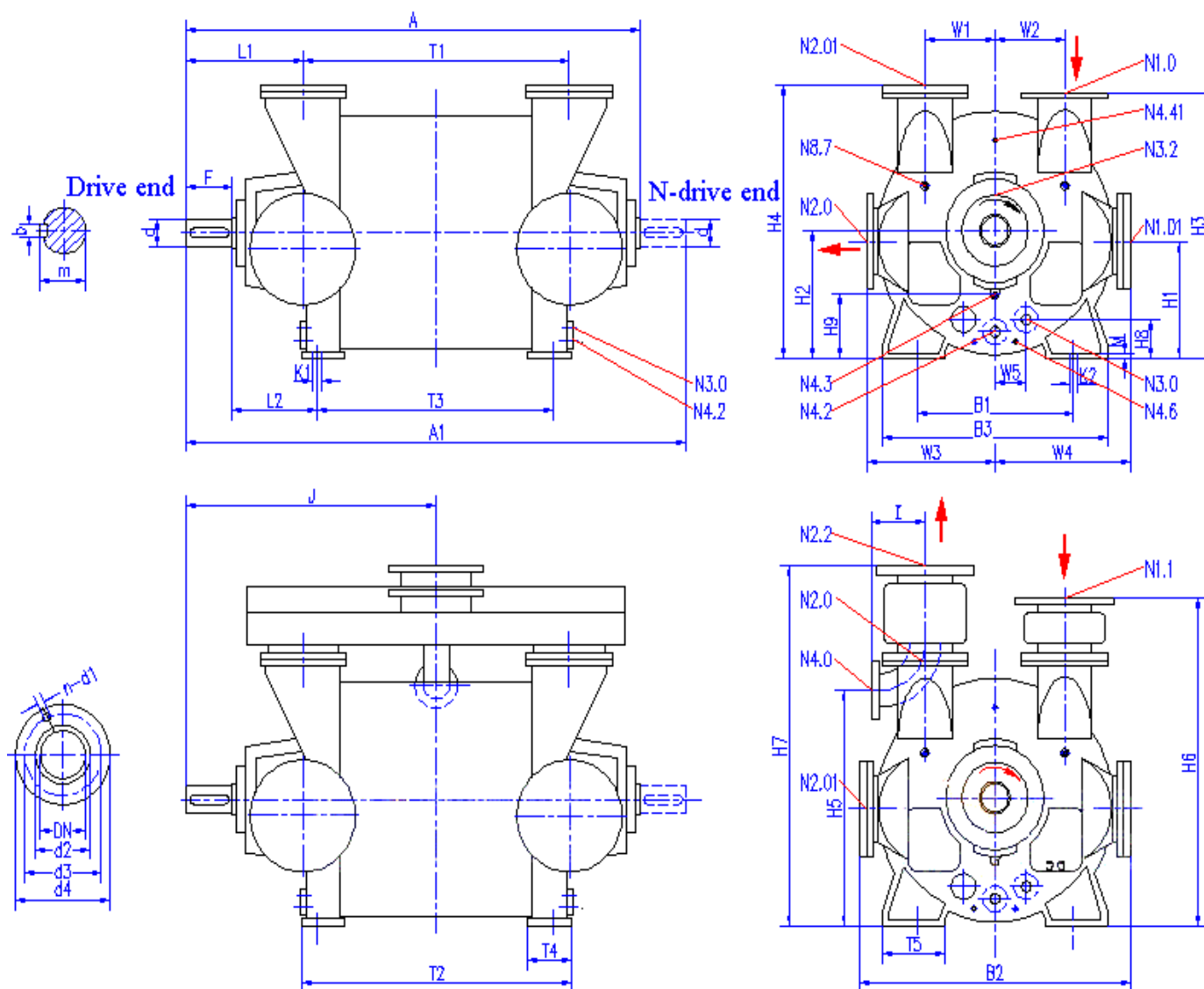


Notes: the above curve is obtained under the following conditions.

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

ISO9001:2000 QMS CERTIFICATE

The Dimension of the 2BE3400/420/500/520/600/620/670/720 bare pumps



Code	Name	Code	Name	Code	Name
N1.0/1.01	Inlet flanges	N3.0	Connection for operating liquid	N4.3	Leaking port
N1.1	Y-pipe flange	N3.2	Connection for sealing liquid of the stuffing box packing	N4.41	Spare connection for internal shaft sealant
N2.0/2.01	Outlet flange	N4.0	Separator drian port	N4.6	Plug for total drian port
NN2.2	Separator outlet flange	N4.2	Flushing and drian port	N8.7	Plug for instrument

Installation dimension of the 2BE3 series bare pumps (Unit:mm)

Code	A	A1	B1	B2	B3	b	d	F	H1	H2	H3	H4	H5	H6	H7	H8	H9	I	J	K1
2BE3 400	2102	2359	875	1320	1090	32	130	250	560	620	1160	1195	1014	1520	1760	209	332	284	1179	50
2BE3 420	2391	2648	875	1320	1090	32	130	250	560	620	1160	1195	1014	1520	1760	209	332	284	1323	50
2BE3 500	2603	2913	1120	1580	1370	40	160	300	698	775	1450	1490	1232	1850	2185	227	451	367	1456	50
2BE3 520	2853	3163	1120	1580	1370	40	160	300	698	775	1450	1490	1232	1850	2185	227	451	367	1581	50
2BE3 600	2837	3144	1320	1830	1620	45	180	300	809	900	1720	1760	1503	2170	2560	249	539	367	1572	58
2BE3 620	3132	3439	1320	1830	1620	45	180	300	809	900	1720	1760	1503	2170	2560	249	539	367	1719	58
2BE3 670	3389	3748	1400	1960	1740	45	200	350	877	975	1855	1900	1734	2308	2990	261	576	449	1873	58
2BE3 720	3587	3946	1600	2140	1900	45	200	350	952	1060	1985	2030	1734	2308	2990	273	663	449	1972	58
Code	K2	L1	L2	M	m	T1	T2	T3	T4	T5	W1	W2	W3	W4	W5	N3. 2	N4. 3	N4. 41	N4. 6	N8. 7
2BE3 400	42	594	377	30	137	1169	1314	1103	220	215	300	300	625	660	160	1/4"	3/4"	1/2"	1/2"	1/2"
2BE3 420	42	594	377	30	137	1458	1603	1392	220	215	300	300	625	660	160	1/4"	3/4"	1/2"	1/2"	1/2"
2BE3 500	42	672	411	35	169	1568	1723	1490	250	250	385	385	750	790	175	1/4"	3/4"	1/2"	1/2"	1/2"
2BE3 520	42	672	411	35	169	1818	1973	1740	250	250	385	385	750	790	175	1/4"	3/4"	1/2"	1/2"	1/2"
2BE3 600	48	650	398	45	190	1843	2043	1747	300	300	435	435	875	915	200	1/2"	3/4"	1/2"	1/2"	1/2"
2BE3 620	48	650	398	45	190	2138	2338	2042	300	300	435	435	875	915	200	1/2"	3/4"	1/2"	1/2"	1/2"
2BE3 670	48	733	423	45	210	2280	2480	2200	300	320	460	460	935	980	200	1/2"	3/4"	1/2"	1/2"	1/2"
2BE3 720	48	722	427	45	210	2500	2730	2390	340	340	490	490	1025	1070	200	1/2"	3/4"	1/2"	1/2"	1/2"
Code	Connection	DN	d1	d2	d3	d4	n	Connection	DN	d1	d2	d3	d4	n						
2BE3 400 2BE3 420	N1. 0/N1. 01 N2. 0/N2. 01	250	22	320	350	395	12	N3. 0 N4. 2	50	M16	102	125	-	4						
	N1. 1/N2. 2	300	22	370	400	445	12	N4. 0	150	22	212	240	285	8						
2BE3 500 2BE3 520	N1. 0/N1. 01 N2. 0/N2. 01	300	22	370	400	445	12	N3. 0 N4. 2	50	M16	102	125	-	4						
	N1. 1/N2. 2	350	22	430	460	505	16	N4. 0	200	22	268	295	340	8						
2BE3 600 2BE3 620	N1. 0/N1. 01 N2. 0/N2. 01	350	22	430	460	505	16	N3. 0 N4. 2	80	M16	128	150	-	4						
	N1. 1/N2. 2	400	26	482	515	565	16	N4. 0	200	22	268	295	340	8						
2BE3 670	N1. 0/N1. 01 N2. 0/N2. 01	350	22	430	460	505	16	N3. 0 N4. 2	80	M16	128	150	-	4						
	N1. 1/N2. 2	500	26	585	620	670	20	N4. 0	200	22	268	295	340	8						
2BE3 720	N1. 0/N1. 01 N2. 0/N2. 01	400	26	482	515	565	16	N3. 0 N4. 2	80	M16	128	150	-	4						
	N1. 1/N2. 2	500	26	585	620	670	20	N4. 0	250	22	320	350	395	12						