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Catalog 2BE series

water ring vacuum pumps and compressors

https://bts.net.ua

2BE series water ring vacuum pumps and compressors

Usage and characteristics

2BEA series water ring vacuum pumps and compressors, which is a serious of high efficiency and energy saving products, is developed on the our company's years of work experience and achievements in scientific research basic, combining the advanced international experience of similar products. It's used to pumping Insoluble in water non corrosive air without solid particles to form pressure or vacuum in confined space. By changing materials and structure, it can also be used to pumping corrosive air or use corrosive liquid as the working fluid. It's widely used at paper-production, chemistry-industry, light industry, petrifaction, pharmaceuticals, food-production, building material, electrical equipment, coal washing, ore dressing, fertilizer and many other areas. Particularly, in coal industry, this type can pump highly flammable and explosive gas like methane, so it can be designed to install ground gas pumping station, or match mobile gas drainage system.

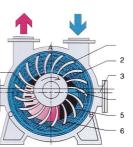
This serious uses single stage single series structure, with advantages like reliable operation, simple structure, simple repair, high efficiency and energy saving. It will adapt large drainage volume and shock wave and other poor conditions.

We conducted a systematic optimization design to the key components, such as distribution board, impeller and pump spindle. Simpler structure leads to energy saving and higher efficiency. We choose welding impeller using once stamping to form. Molded lines are reasonable. Hubs are all processed, solving the dynamic balance problem fundamentally. Impellers and pump spindles use heating interference coordination, steady and reliable. After welding, impellers undergo heat treatment well totally, bringing impellers good toughness, so they are antiple bending and shocking, can adapt many poor conditions.

2BEA serious equips the gas water separator, have suctions and exhausts in multipositions, and exhaust valve repair window on the pump cover. The gap between the impeller and distributing plate is adjusted by glands on both ends of the location bearing. It's very easy to install, operate and repair.

Our company's pumps are all after testing center's strict testing, Superior performing and safe working.

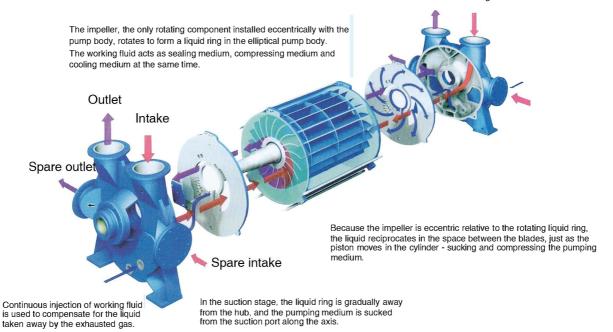




1.Impeller
2.Wheel boss
3.Pump body
4.Air cavity
5.Suction hole
6.liquid(water)
7.Flexible vent

Decomposition structure diagram

During the exhaust phase, the liquid ring gradually approached the hub and discharged the pumping medium from the outlet along the axis.



2BEA series water ring vacuum pumps and compressors

2BE series water ring vacuum pumps and compressorss

2BEA series products have the characteristics of strong suction capacity under relatively high vacuum. They are usually used to suck and compress gases without solid particles, insoluble in water and non-corrosive. They are ideal for papermaking, chemical industry, pharmaceuticals, petroleum, light industry, food, metallurgy, building materials, electrical appliances, coal washing, mineral processing, chemical fertilizerand other industries vacuum acquisition equipment.



2BEA Series Main Technical Parameters

Model	Absolute pressure (hPa)	Speed (r.p.m)	Power -	Pumping speed (m3/min)								
				Pressure 60hpa		Pressure 100hpa		Pressure 200hpa		Pressure 400hpa		Weight
				Air	Saturated air	Air	Saturated air	Air	Saturated air	Air	Saturated	(kg)
		1300	11	2.8	3.95	3.77	4.58	4.47	4.87	4.83	4.93	125
2BEA-103-0	33	1450	11	3.18	4.52	4.22	5.13	5.1	5.53	5.38	5.5	
2BEA-103-0	33	1625	15	3.87	5.47	4.9	5.97	5.83	6.33	6.1	6.23	
		1750	15	4.32	6.1	5.33	6.5	6.28	6.83	6.57	6.7	
		1100	15	4.15	5.67	5.6	6.77	6.7	7.33	7.2	7.33	190
		1300	18.5	5.37	7.58	6.87	8.35	8.22	8.93	8.6	8.8	
2BEA-153-0	33	1450	18.5	6.33	8.95	7.83	9.52	9.22	10	9.62	9.82	
		1620	22	7.22	10.2	8.72	10.6	10.1	11	10.6	10.8	
		1750	30	7.67	10.8	9.22	11.2	10.7	11.6	11.1	11.4	
		790	18.5	6.6	9.3	8.8	9	9.2	9.7	9.5	9.8	
		880	18.5	7.8	10.2	9.7	10.3	10.6	11.1	10.9	12.2	
2BEA-202-0	33	980	22	8.4	11.9	11.4	11.6	11.6	12.8	12.2	12.6	450
		1100	30	9.6	12.9	12.4	12.7	13.6	14.1	13.8	14.2	
		1170	30	10.2	13.6	13.1	13.6	13.9	15.1	14.5	14.8	
	33	790	30	8.25	11.6	11.1	13.5	13.4	14.5	14.3	14.6	510
		880	30	9.7	13.5	12.7	15.4	15.3	16.6	16.1	16.4	
2BEA-203-0		980	37	13.6	18.5	16.5	14.4	19	19.7	19.4	20	
		1100	45	13.5	19	16.4	19.7	19.2	20.9	20	20.4	
		1170	45	14.4	20.3	17.4	21.1	20.1	21.8	21	21.4	
	33	565	30	10.2	15.3	14.1	16.6	19.2	20.9	20.1	20.5	910
		590	30	11.6	16.4	15.3	17.5	20.1	21.8	21.1	21.5	
0054 050 0		660	37	15.5	22.4	20.7	22.1	24.2	26.5	25.2	25.7	
2BEA-252-0		740	45	17.7	24.9	22.6	23.9	26.4	28.7	27.5	28.3	
		820	55	19.4	28.5	26.3	28.2	29.5	29.8	30.3	30.8	
		880	75	21.7	30.5	28.7	29.8	31.1	31.8	32.6	33.3	
		565	45	14.1	20	19.5	23.8	25.6	28.1	28.3	28.3	1040
	33	590	55	15.1	21.8	20.4	24.8	26.7	29	29.5	30.1	
2BEA-253-0		660	55	20.1	28.4	25.8	31.3	31.9	34.6	34.3	35.1	
		740	75	24.3	34.3	30.3	36.8	36.5	39.6	38.3	39.6	
		820	90	27.9	39.3	34.2	41.5	40.6	44.1	42.9	43.7	
		880	90	30.2	42.6	36.7	44.7	43.5	47.2	45.8	46.7	
2BEA-303-0	33	472	55	24.3	34	31.3	38.5	38.9	42.5	41	41.8	1500
		520	75	27.6	38.5	34.2	41.5	40.3	44.3	42.5	43.5	
		530	75	30.8	42.8	37.1	45	13.3	47.3	45.7	46.6	
		590	75	35.8	49.9	42.6	51.6	48.8	53.3	50.3	51.3	
		660	90	40.5	57.5	48.7	59	55	60	57	58	
		740	110	42.5	60	51.8	62.7	58.3	63.5	61.6	62.8	
	33	372	75	26.5	37.4	39.3	46.4	49	53.5	53.8	54.9	2000
		420	90	35.8	50.6	45.3	54.9	53.8	58.6	57.2	58.4	
		464	110	43.6	61.5	52.8	63.9	61	66.5	63.7	65	
2BEA-353-0		490	110	46.5	65.6	55.7	67.6	63	68.7	66.4	67.7	
		500	132	46.6	65.8	56.3	68.2	65	70.9	67.6	69	
)	530	132	49.5	69.9	60.1	72.8	68.5	74.7	71.5	73	
		50	160	56.7	80	68.4	82.8	77	84	80.2	81	

2BEA series water ring vacuum pumps and compressors

2BEA series products have the characteristics of strong suction capacity under relatively high vacuum. They are usually used to suck and compress gases without solid particles, insoluble in water and non-corrosive. They are ideal for papermaking, chemical industry, pharmaceuticals, petroleum, light industry, food, metallurgy, building materials, electrical appliances, coal washing, mineral processing, chemical fertilizerand other industries vacuum acquisition equipment.



2BEA Series Main Technical Parameters

	Absolute	0	Power (kw)	Pumping speed (m3/min)								Weight
Model	pressure (hPa)	Speed (r.p.m)		Pressure 60hpa		Pressure 100hpa		Pressure 200hpa		Pressure 400hpa		"
				Air	Saturated air	Air	Saturated air	Air	Saturated air	Air	Saturated air	(kg)
2BEA-403-0	33	330	132	44.8	63.3	60	72.5	73.7	80.4	78.5	80	
		372	160	57.4	81	70.6	85.5	82.1	89.6	85.5	87.6	3300
		420	185	67.3	95	81.4	98.5	93.5	102	97	99	
		472	200	78.7	110	95	115	107.2	116.8	110	120	
		530	250	85.1	120	103	125	117.1	127.6	123.5	126	
		372	90	52.2	57	56	59.2	59.6	61.4	60.2	62.1	2200
		420	110	63.8	69.6	66.3	70.3	69.1	71.2	70.1	71.5	
2BEA-355-0	160	472	110	70.3	76.7	73.6	78.3	76.7	79.1	78.2	79.8	
2BEA-333-0		500	132	73.4	80	77.3	82	80.6	83.1	82.5	84.2	
		530	132	76.3	83.2	80.6	85.5	85.4	88	86.6	88.3	
		590	160	81.3	88.6	86.6	91.8	92.2	95	94.1	96	
		330	132	81.2	88.6	85.7	91	90.6	93.4	92.3	94.2	3400
	160	372	160	84.5	103	98.5	104.5	103.4	106.5	104.7	106.8	
2BEA-405-0		420	185	104.5	114	109.5	116.3	115.2	118.7	116.3	118.7	
		472	220	111.7	121.8	118.7	125.8	126.2	130	128.2	130.8	
		530	280	120.2	131.1	127.3	135	136.8	141	141	143.7	
	160	266	160	104.5	114	110	116.4	117.1	120.7	120	122.5	5100
		298	185	123.4	134.5	129.2	137	125.2	139.3	136.4	139.1	
2BEA-505-0		330	220	136.5	148.8	142.6	151.2	149	153.5	151	154	
		372	250	148.6	162	156	165.5	164.4	169.4	167	170.3	
		420	315	159.7	174.1	169.5	179.7	180.5	186	184.7	188.3	
	160	220	220	146	158	153	162	163	168	164	164	7900
		236	220	158	172	166	176	176	181	177	181	
		246	250	166	180	173	184	183	188	185	189	
2BEA-605-0		266	280	183	200	192	203	200	206	202	206	
		276	280	188	203	196	207	205	210	207	210	
		298	315	201	219	210	223	221	228	224	229	
		312	355	207	224	216	229	228	234	232	236	
	160	197	355	230	250	240	256	251	259	255	259	11500
		220	400	255	276	265	280	278	286	282	287	
2BEA-705-0		246	450	283	307	293	310	309	318	312	318	
		266	500	300	325	313	332	332	342	337	343	
		276	560	310	336	323	342	352	352	347	353	

^{1.} The data is listed in the table in the condition that air temperature of 20°C, the water temperature of 15°C, exhaust pressure 1013 hpa, suction medium for saturated air.

^{2.}The pump performance tolerances ±10%
3.The motor power which is equipped with power, users have special requirement, please explain it when ordering.
4.Some pumps, such as 2BEA-355-1 can be refit to the structure that pump body is with partition board, not changing installation size, but can work under diffrent inhalation absolute pressure on both sides of the pump body.

2BEC series water ring vacuum pumps and compressors



2BEC series products have been fully considered in the design that it must be able to extract a variety of gases. It has been widely used in papermaking, coal mine, power plant, vacuum filtration, chemical industry, petrochemical, food processing and other industries.

2BEC Series Main Technical Parameters

Model	Absolute pressure (hPa)	Speed (r.p.m)	Pumping speed (m³/min)	Power (kw)	Drive style	Voltage (V)	Intake diameter (mm)	Outlet diameter (mm)
	,	300	68	75	Belt	380	300	300
		232	80	90		380		
2BEC-400	160	267	85	110	1	380		
2520 .00		393	92	110	Reducer or belt	380		
		449	110	132		380		
		300	90	110		380	300	
		330	110	132		380		300
2BEC-420	160	360	120	132	Reducer or belt	380		
		390	126	160		380		
		420	134	185		380		
*		242	125	160		380		
		266	145	185		380	350	350
2BEC-500	160	294	165	200	Reducer or belt	380		
		336	190	250		6KV		
		372	210	280	1	6KV		
		236	150	185		380	350	350
	160	266	165	200		380		
2BEC-520		294	205	250	Reducer or belt	6KV		
		336	235	280		380		
		336	250	315		380		
		200	180	185		380	400	400
	160	236	210	250		6KV		
2BEC-600		266	240	280	Reducer	6KV		
		294	260	315		6KV		
		336	285	350		6KV		
	160	200	220	220	Reducer	6KV	400	400
		236	255	280		6KV		
2BEC-620		266	290	350		6KV		
		294	320	400		6KV		
		336	360	450		6KV		
2BEC-670		170	305	315	Reducer	6KV	500	500
	160	200	370	400		6KV		
		236	440	450		6KV		
		266	500	560		6KV		
		294	560	630		6KV		
		210	400	450			500	500
		240	450	560		6KV		
2BEC-720	160	270	500	630	Reducer	10KV		
		300	560	710				
		340	620	900				

^{1.}The data is listed in the table in the condition that air temperature of 20°C, the water temperature of 15°C, exhaust pressure 1013 hpa, suction medium for saturated air.

^{2.}The pump performance tolerances ±10%

^{3.}The motor power which is equipped with power, users have special requirement, please explain it when ordering.