

2WBE1 SERIES

Introduction:

2WBE1 series liquid ring vacuum pumps are the products with high efficiency and energy savings, which are manufactured by our company combining with the advanced technology. These series pumps are single stage and have many advantages. Such as: structure is simple, easy to maintain and reliable operation and so on. They can use to the large of water drainage and load shock wave and other hard conditions. Compare to the WSK, 2WSK, WSZ series liquid ring vacuum pumps, 2WBE1 series are the ideal replacement with high vacuum, low power and reliable operation.



Main Features:

1. The material of the impeller is welded with modular iron or steel to ensure the high stability and increase the lifetime of the pump greatly during any harsh conditions.
2. The coupling (driven directly) adopts standards high strength elastic product. The elastic element is made of polyurethane to keep the reliable operation and long lifetime of the pump.
3. The pump body is made of steel or stainless steel to increase the lifetime of the pump five times than normal material
4. The mechanical seals (optional) adopt the imported parts to fully ensure the pump in the long-running process without leakage.

Technical Data :

Model	Ultimate Pressure (hpa)	Rotary (rpm)	Speed Pump Speed (m³/min)	Motor Power (kw)	Transmission Type	Weight (kg)	Inlet Diam (mm)	Outlet Diam (mm)
2WBE1 102	33	1300	3.5	7.5	Belt Drive	295	65	65
		1450	3.9	7.5	Direct Drive	311		
		1625	4.5	7.5	Belt Drive	311		
		1750	4.8	11	Belt Drive	346		
2WBE1 103	33	1300	5.0	11	Belt Drive	347	65	65
		1450	5.8	11	Direct Drive	363		
		1625	6.4	15	Belt Drive	388		
		1750	7.0	15	Belt Drive	388		
2WBE1 151	33	1100	5.0	11	Belt Drive	428	100	100
		1300	6.0	11	Belt Drive	444		
		1450	6.8	15	Belt Drive	469		
		1625	7.4	15	Direct Drive	469		
		1750	7.8	18.5	Belt Drive	503		
2WBE1 152	33	1100	5.7	11	Belt Drive	437	100	100
		1300	6.9	15	Belt Drive	481		
		1450	7.8	15	Direct Drive	481		
		1625	8.5	18.5	Belt Drive	515		
		1750	8.9	22	Belt Drive	533		
2WBE1 153	33	1100	7.5	15	Belt Drive	486	100	100
		1300	9.0	18.5	Belt Drive	533		
		1450	10.0	18.5	Direct Drive	533		
		1625	11.0	22	Belt Drive	551		
		1750	11.9	30	Belt Drive	601		

2WBE1 202	33	790	9.5	18.5	Belt Drive	850	125	125
		880	11.0	18.5	Belt Drive	850		
		980	12.0	22	Direct Drive	875		
		1100	14.0	30	Belt Drive	940		
		1170	15.0	30	Belt Drive	945		
		1300	15.8	37	Belt Drive	995		
2WBE1 203	33	790	14.0	30	Belt Drive	995	125	125
		880	16.0	30	Belt Drive	995		
		980	18.0	37	Direct Drive	1065		
		1100	20.0	45	Belt Drive	1085		
		1170	21.0	45	Belt Drive	1085		
		1300	23.3	55	Belt Drive	1170		
2BWE1 252	33	558	20.0	30	Belt Drive	1460	150	150
		660	25.0	37	Belt Drive	1515		
		740	28.0	45	Direct Drive	1693		
		832	30.0	55	Belt Drive	1645		
		885	33.0	75	Belt Drive	1805		
		938	35.0	75	Belt Drive	1805		
2WBE1 253	33	560	28.0	45	Belt Drive	1695	150	150
		660	35.0	55	Belt Drive	1785		
		740	39.0	75	Belt Drive	1945		
		740	39.0	75	Direct Drive	2215		
		792	42.7	75	Belt Drive	1945		
		833	45.0	90	Belt Drive	2055		
		885	47.8	90	Belt Drive	2060		
		938	50.3	110	Belt Drive	2295		
2WBE1 303	33	466	41.7	55	Belt Drive	2645	200	200
		521	45.0	75	Belt Drive	2805		
		583	51.7	75	Belt Drive	2810		
		590	53.3	75	Direct Drive	3200		
		657	59.7	90	Belt Drive	2925		
		740	66.7	110	Direct Drive	3200		
		743	66.7	132	Belt Drive	3290		
2WBE1 305	33	490	52.5	75	Belt Drive	2950	200	200
		521	55.3	75	Belt Drive	3000		
		583	61.2	90	Belt Drive	3100		
		590	62.5	90	Direct Drive	3800		
		657	68.8	110	Belt Drive	3300		
		740	77.5	132	Belt Drive	3800		
		743	77.5	132	Belt Drive	3450		
2WBE1 353	33	390	59.7	75	Belt Drive	3500	250	250
		415	61.7	90	Belt Drive	3665		
		464	68.3	110	Belt Drive	3905		
		520	77.0	132	Belt Drive	4040		
		585	86.7	160	Belt Drive	4100		
		590	88.3	160	Direct Drive	4750		
		620	91.7	160	Belt Drive	4100		
		660	97.5	185	Belt Drive	4240		
2WBE1 3 55		390	69.7	90	Belt Drive	3920		
		435	76.7	110	Belt Drive	4150		
		464	80.8	110	Belt Drive	4160		

160	520	90.8	132	Belt Drive	4290	250	250
	555	96.7	132	Belt Drive	4300		
	585	101.7	160	Belt Drive	4330		
	590	103.3	160	Direct Drive	5000		
	620	107.5	185	Belt Drive	4450		

Notes : The motor recommended above can work under most conditions. Ex. The exhaust pressure exceeds the range of 0.02-0.05Mpa, then increase the motor. If the shaft power of 2WBE1 vacuum pump is minor in normal working, also can choose the motor with lower power near to the shaft power can save more energy.

Notes : The water temperature of **Liquid ring vacuum pump** is great impact on its performance, but the performance curve is tested under water temperature at 15?, so when actual selection of the vacuum pump, the suction rate should be corrected. Correction method refers to: water temperature impact on pump performance.

2 WBE1 series vacuum pump water consumption(m3/h), the tolerance is 20%

Model	Rotary speed (rpm)	Speed range (rpm)	Water consumption of the following suction pressure (mbar) [m3/h]							
			160	200	300	400	500	600	700	800
2 WBE1-102	1450	1300~1750	1.1	1.1	0.73	0.73	0.73	0.73	0.36	0.36
2 WBE1-103	1450	1300~1750	1.4	1.4	0.93	0.93	0.93	0.93	0.47	0.47
2 WBE1-151	1450	1100~1750	1.5	1.5	1	1	1	1	0.5	0.5
2 WBE1-152	1450	1100~1750	1.7	1.7	1.13	1.13	1.13	1.13	0.57	0.57
2 WBE1-153	1450	1100~1750	1.9	1.9	1.27	1.27	1.27	1.27	0.63	0.63
2 WBE1-202	980	790~1300	2.1	2.1	1.4	1.4	1.4	1.4	0.7	0.7
2 WBE1-203	980	790~1300	2.6	2.6	1.73	1.73	1.73	1.73	0.87	0.87
2 WBE1-252	740	558~938	4.4	4.4	2.93	2.93	2.93	2.93	1.47	1.47
2 WBE1-253	740	560~938	5.2	5.2	3.47	3.47	3.47	3.47	1.73	1.73
2 WBE1-303	660	466~743	8.5	8.5	6.8	6.8	5.7	5.7	2.9	2.9
2 WBE1-305	660	466~743	8.2	8.2	7.8	7.0	6.0	5.1	4.2	3.3
2 WBE1-306	660	466~743	8.2	8.2	7.8	7.0	6.0	5.1	4.2	3.3
2 WBE1-353	530	372~660	-	12.1	10.5	9.0	7.4	5.8	4.3	2.7
2 WBE1-355	530	372~660	10.9	10.9	10.4	9.3	8.0	6.7	5.5	4.3

Notes :

1. Type of working liquid the water is used in the usual condition with standard temperature at 15? (or its range from 0? to 65?) or at least its temperature is lower 10? than the boiling point.
2. The above water consumption indicates the data under standard speed of the pump. For various speeds, the practical value in the chart should multiply the ratio between the practical speed and the standard speed.