



Technical Catalogue



2FBE1 Series

Liquid Water Ring Vacuum Pumps

Test Platform

It is test platform for pump products like water ring vacuum pumps, water pumps, submersible pumps etc.

Highlights:

6KV, 1500KW transformers: ensure enough power distribution for all kinds of large extra large pumps and compressors.

50/10T double beam crane: for the assembling and lifting of all large and super-large pumps and compressor.

Complete computer test terminal: for record and display of real time performance curve, current, speed, power and other parameters.

800m³ large working solution platform: to ensure supply regular amount of working liquid and keep its temperature when the liquid ring vacuum pumps, especially super large ones, are being tested.

Application of special material

Through our years of product application in chemical industry, we have accumulated considerable experience in the use of various special material, such as stainless steel for wet parts, special part nickel plating. macro-molecule spraying, and complete titanium material. So our product are stable, operating reliable with long service time in situation that recycling medium is strong acid or strong alkali, inflammable or explosive, harmful or toxic.

[water as working liquid]

Air H₂, N₂, O₂, CO, CO₂, NOX, H₂S, SO₂, NH₃ etc.

CH₄, C₂H₆ hydrocarbon; olefinic group of C₂H₄, C₃H₆ etc, C₂H₂, gasoline etc.

Vinylchloride monomer (VCM, Ch₂CHCl) recovery and compression of Urban gas, digested gas, and gas mixture.

[working liquid besides water]

98% concentrated sulfuric acid - dry Cl₂, dry HCl solvent (most are negative suction pressure) which suit for the gas as working liquid, such as acetone, EDC (ethylene dichloride), benzene, MEK, MIBK, cyclohexane, methanol, acetic acid etc.

Liquid with condensed compounds

Liquid in associated process

[water as working liquid]

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Liquid with condensed compounds

Liquid in associated process

2FBE1 Series Liquid Ring Vacuum pumps and Compressors

2FBE1 Series liquid ring vacuum pumps and compressors are highly efficient and energy saving products based on our years of research and experience, and combination with advanced international technology. They are usually used to pump the gas without solid particles, undissolved, and non-corrosive gas to create vacuum and pressure in closed container.

By changing the wet parts material, they are also used to pump corrosive gas or using corrosive liquid as working liquid. They are widely used in industries like paper making, chemical, petrochemical, light industry, pharmaceutical, food, metallurgy, construction, coal mining, fertilizer, or dressing, light industry etc.

2FBE1 series pump model is expressed in the combination of 8 letters and digits as follows:

2FBE1/3--<1><2><3><4>

2FBE1: pump with high vacuum degree

2FBE3: pump with low vacuum degree

<1><2>: impeller nominal radius (cm)

<3>: code for impeller nominal width - diameter ratio --- B/D

1--B/D=0.5 2--B/D=0.75 3--B/D=1 5--B/D=1.2

<4>: code for min. suction pressure 0--limit vacuum is 33hpa

1--limit vacuum is 160hpa

Take 2FBE1-403-0 as example, this model means: A single stage water ring vacuum pump with impeller nominal diameter 800mm, width - diameter ratio 1, min. suction pressure 33hpa.



2BE1 Technical Parameters

Model	Speed (r/min)	Shaft power (kw)	Motor power (kw)	Limit vacuum	Suction capacity		Weight excluding motor (kg)
					m ³ /h	m ³ /min	
2FBE1-102	1450	6.0	Y132M-4-7.5	33hpa (-0.097Mpa)	246	4.1	110
	1750	8.0	Y160M-4-11		290	4.8	
2FBE1-103	1450	8.2	Y160M-4-11	33hpa (-0.097Mpa)	340	5.7	125
	1750	11.1	Y160L-4-15		412	6.9	
2FBE1-152	1450	12.5	Y160L-4-15	33hpa (-0.097Mpa)	450	7.5	175
	1625	15.0	Y180M-4-18.5		510	8.5	
	1750	17.2	Y180L-4-22		535	8.9	
2FBE1-153	1450	16.3	Y180M-4-18.5	33hpa (-0.097Mpa)	600	10.0	200
	1100	10.6	Y160L-4-15		445	7.4	
	1300	13.4	Y180M-4-18.5		535	8.9	
	1620	19.6	Y180L-4-22		648	10.8	
	1750	22.3	Y200L-4-30		700	11.7	
2FBE1-202	980	18.2	Y200L2-6.22	33hpa (-0.097Mpa)	750	12.5	460
	790	13.4	Y180M-4-18.5		590	9.8	
	880	16.3	Y180M-4-18.5		670	11.2	
	1100	23.8	Y200L-4-30		860	14.3	
	1170	25.7	Y200L-4-37		888	14.8	
	1300	30	Y225S-4-37		950	15.8	
2FBE1-203	980	29.5	Y250M-6-37	33hpa (-0.097Mpa)	1080	18	530
	790	21.2	Y200L-4-30		870	14.5	
	880	24.8	Y200L-4-30		980	16.3	
	1100	34	Y225M-4-45		1210	20.2	
	1170	38	Y225M-4-45		1320	22.0	
	1300	42	Y250M-4-55		1390	23.2	
2FBE1-252	740	38	Y280M-8-45	33hpa (-0.097Mpa)	1700	28.3	870
	590	24	Y200L-4-30		1200	20.0	
	660	21.8	Y225S-4-37		1500	25.0	
	830	45	Y250M-4-55		1770	29.5	
	885	54	Y280S-4-75		2000	33.3	
	938	60	Y280S-4-75		2100	35.0	
2FBE1-253	740	54	Y315M-8-75	33hpa (-0.097Mpa)	2450	40.8	930
	565	37.2	Y225-4-45		1690	28.2	
	660	45	Y250M-4-55		2100	35	
	740	50.8	Y280S-4-75		2340	39	
	792	60	Y280S-4-75		2560	42.7	
	820	68	Y280M-4-75		2640	44	
	880	75.1	Y280M-4-90		2780	46.3	
	940	88	Y315S-4-110		3050	50.8	
2FBE1-303	740	98	Y315L2-8-110	33hpa	4000	66.7	1700

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					m ³ /h	m ³ /min	
2FBE1-303	590	65.5	Y315L-10-75	(-0.097Mpa)	3200	53.3	1820
	466	48	Y250M-4-55		2520	42	
	430	58	Y280S-4-75		2820	47	
	583	64	Y280S-4-75		3100	51.7	
	660	79.8	Y280M-4-90		3550	59.2	
	740	96	Y314S-4-110		3840	64	
2FBE1-305	740	108	Y355M1-8-132	33hpa (-0.097Mpa)	4520	75.3	
	590	70	Y355M1-10-90		3750	62.5	
	490	55	Y280S-4-75		3150	52.5	
	530	61	Y280S-4-75		3380	56.4	
	583	68	Y280M-4-90		3700	61.2	
	660	90	Y315S-4-110		4090	68.1	
	740	110	Y315M-4-132		4550	75.8	
2FBE1-353	590	121	Y355L2-10-160	33hpa (-0.097Mpa)	5300	88.3	1950
	390	63	Y280S-4-75		3580	59.7	
	425	71	Y280M-4-90		3700	61.7	
	460	78	Y280M-4-90		4100	68.3	
	520	93	Y316S-4-110		1620	77.0	
	585	113	Y315M-4-132		5200	86.7	
	620	133	Y315L1-4-160		5500	91.7	
	660	152	Y315L2-4-185		5850	97.5	
2FBE1-355	590	136	Y355L2-10-160	33hpa (-0.097Mpa)	5700	95	2200
	390	75	Y280M-4-90		4180	69.7	
	430	86	Y315S-4-110		1260	71	
	464	90	Y315S-4-110		4850	80.8	
	523	113	Y315M-4-132		5230	87.1	
	590	136	Y315L2-4-160		6000	100	
	660	167	Y315L2-4-185		6510	108	
2FBE1-403	330	98	Y315M-4-132	33hpa (-0.097Mpa)	4860	81	3750
	372	110	Y315M-4-132		5400	90	
	420	131	Y315L1-4-160		6470	107.8	
	472	160	Y315L2-4-200		7380	123.0	
	530	213	Y355M2-4-250		8100	135.0	
2FBE1-405	330	100	Y315M-4-132	33hpa (-0.097Mpa)	6000	100.0	3900
	372	118	Y315L1-4-160		6700	111.7	
	420	140	Y315L2-4-185		7500	125.0	
	472	170	Y315L2-4-200		8350	139.2	
	530	216	Y355M2-4-250		9450	157.5	



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Authorized Distributor