



NBE Series Liquid Ring Vacuum Pumps

Description: **Single-Stage Liquid Ring Vacuum Pump**

Type: **Flat Plate**

Models: **NBE1 & NBE3**

Power Range: **15-2,400 HP**

Capacity Range: **200-42,000 CFM**

Max Vacuum: **23" OR 29" Hg**

Overview

Our NBE series is the economical choice for large single stage liquid ring vacuum pumps. Designed as drop-in replacements for Siemens 2BE1 & 2BE3 series, they are available in 15-2,400 HP (200-42,000 CFM). Standard construction is all cast iron with Teflon packing. NES pumps are performance tested and include a 2 year warranty.



Features

- Drop-in replacement for classic Siemens* 2BE1 & 2BE3 series.
- Compact design reduces size & costs.
- Standard construction is cast iron.
- Optional 304 or 316 stainless steel construction.
- Parts and repair kits readily available.
- Available as bare pump or engineered systems.
- 2 year factory warranty.

Materials of Construction

- Housing & Heads - Cast iron standard; 304 or 316 SS optional.
- Rotor -Cast Iron standard; 304 or 316 SS optional.
- Port Plate - Cast iron standard; 304 or 316 SS optional.
- Shaft - Cast steel standard; 304 or 316 SS optional.
- Seal – Teflon packing seal standard.

Applications

- | | | |
|----------------|--------------------------|---------------------|
| • Power Plants | • Chucking | • Container Filling |
| • Forming | • Cooking | • Deaerating |
| • Drying | • Evaporating | • Eviscerating |
| • Exhausting | • Extruder Venting | • Fiber Setting |
| • Filtering | • Forming | • Gas Stripping |
| • Priming | • Slot Extraction | • Solvent Recovery |
| • Molding | • Central Vacuum Systems | • Foods & Fats |

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Model	Max Vacuum [hPa A] ("Hg)	Speed [RPM]	Max Capacity [m ³ /min] (CFM)	Motor Power [kW] (HP)	inlet & outlet size [mm]	Seal Water Supply [m ³ /hr] (GPM)	Pump Weight [kg] (lbs)
NBE1-152	33 (29)	1100	5.7 (201)	11 (15)	100	2.3 (10)	300 (665)
		1300	7 (247)	15 (20)		2.7 (12)	
		1450	7.8 (275)	15 (20)		3.0 (13)	
		1625	8.5 (300)	18.5 (25)		3.6 (16)	
		1750	9 (318)	22 (30)		3.7 (16.5)	
NBE1-153	33 (29)	1100	7.4 (261)	15 (20)	100	2.3 (10)	330 (665)
		1300	9.0 (317)	18.5 (25)		2.7 (12)	
		1450	10.0 (353)	18.5 (25)		3.0 (13)	
		1625	11.0 (388)	22 (30)		3.6 (16)	
		1750	11.7 (413)	30 (40)		3.7 (16.5)	
NBE1-202	33 (29)	790	9.8 (346)	18.5 (25)	125	1.7 (7.5)	450 (995)
		880	11.2 (395)	18.5 (25)		1.9 (8.5)	
		980	12 (424)	22 (30)		2.1 (9.5)	
		1100	14.2 (501)	30 (40)		2.3 (10)	
		1170	14.8 (523)	30 (40)		2.5 (11)	
NBE1-203	33 (29)	790	14.7 (519)	30 (40)	125	2.1 (9.5)	510 (1125)
		880	16.7 (590)	30 (40)		2.3 (10)	
		980	18.0 (637)	37 (50)		2.6 (11.5)	
		1100	21.2 (749)	45 (60)		2.9 (13)	
		1170	22.0 (777)	45 (60)		3.1 (14)	
NBE1-252	33 (29)	660	25 (883)	37 (50)	150	3.9 (17)	910 (2010)
		740	28.3 (999)	45 (60)		4.4 (19)	
		820	30 (1059)	55 (75)		4.9 (21.5)	
		880	33.3 (1176)	75 (100)		5.2 (23)	
NBE1-253	33 (29)	660	35.7 (1261)	55 (75)	150	4.6 (21)	1040 (2295)
		740	40.8 (1441)	75 (100)		5.2 (23)	
		820	43 (1519)	90 (120)		5.8 (26)	
		880	47.8 (1688)	90 (120)		6.2 (27.5)	
NBE1-303	33 (29)	466	41.7 (1473)	55 (75)	200	6.1 (27)	1800 (3975)
		590	53.3 (1882)	75 (100)		7.6 (33.5)	
		660	59.7 (2108)	90 (120)		8.5 (37.5)	
		740	66.7 (2355)	132 (175)		9.5 (42)	
NBE1-305	160 (25)	466	52.5 (1854)	75 (100)	200	6.2 (27.5)	1950 (4300)
		590	63 (2225)	90 (120)		7.8 (34.5)	
		660	68.8 (2430)	110 (150)		8.6 (38)	
		740	77.5 (2737)	132 (175)		9.6 (42.5)	
NBE1-353	33 (29)	415	61.7 (2179)	90 (120)	250	8.1 (36)	2160 (4765)
		464	68.3 (2412)	110 (150)		10.2 (45)	
		520	77 (2719)	132 (175)		11.4 (50)	
		585	86.7 (3062)	160 (215)		12.7 (56)	
		660	97.5 (3443)	185 (250)		14.2 (62.5)	
NBE1-355	160 (25)	390	69.7 (2461)	90 (120)	250	8.1	2800 (6160)
		464	80.8 (2853)	110 (150)		10.2	
		520	90.8 (3207)	132 (175)		11.4	
		585	101.7 (3592)	160 (215)		12.7	
		620	107.5 (3796)	185 (250)		14.2	

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NBE1-403	33 (29)	330	86 (3037)	132 (175)	300	13 (57.5)	3300 (7275)
		372	95 (3355)	132 (175)		14.5 (64)	
		420	107.8 (3807)	160 (215)		16.5 (73)	
		472	123 (4344)	200 (270)		18.5 (81.5)	
NBE1-405	160 (25)	330	100 (3532)	132 (175)	300	11.5 (51)	3400 (7495)
		372	111.7 (3945)	160 (215)		12.5 (55)	
		420	125 (4414)	185 (250)		14.5 (64)	
		472	139.2 (4916)	200 (270)		16 (70.5)	
NBE1-503	33 (29)	266	115 (4061)	160 (215)	350	12.4 (54.5)	5000 (11025)
		298	125 (4414)	185 (250)		13.8 (61)	
		330	138 (4873)	200 (270)		15.4 (68)	
		372	155 (5474)	220 (295)		17.1 (75.5)	
		420	175 (6180)	280 (375)		19.6 (86.5)	
NBE1-505	160 (25)	266	128 (4520)	160 (215)	350	13 (57.5)	5100 (11245)
		298	145 (5121)	185 (250)		14.5 (64)	
		330	160 (5650)	220 (295)		16.1 (71)	
		372	179 (6321)	250 (335)		18.2 (80)	
		420	200 (7063)	315 (425)		20.5 (90.5)	
NBE1-603	33 (29)	236	163 (5756)	200 (270)	400	17.9 (79)	7700 (16975)
		266	183 (6463)	250 (335)		21.2 (93.5)	
		298	205 (7240)	280 (375)		22.5 (99)	
		330	230 (8122)	315 (425)		25.4 (112)	
NBE1-605	160 (25)	236	192 (6780)	220 (295)	400	18.9 (83.5)	7900 (17420)
		266	217 (7663)	250 (335)		21.3 (94)	
		298	241 (8511)	315 (425)		23.9 (105)	
		330	262 (9252)	355 (475)		26.4 (116)	
NBE1-703	33 (29)	210	240 (8476)	315 (425)	500	27.2 (120)	11200 (24700)
		236	270 (9535)	355 (475)		30.6 (135)	
		298	345 (12184)	500 (670)		38.5 (169.5)	
		330	380 (13420)	630 (845)		42.7 (188)	
NBE1-705	160 (25)	197	270 (9535)	280 (375)	500	26.3 (116)	11500 (25355)
		236	326 (11513)	400 (535)		31.6 (139)	
		266	362 (12784)	450 (600)		35.6 (157)	
		330	446 (15750)	630 (845)		44.2 (194.5)	
NBE3-400	160 (25)	340	81 (2860)	90 (120)	300	4.2-9.9 (18.5-44)	2900 (6395)
		390	94 (3320)	110 (150)			
		440	105 (3708)	132 (175)			
		490	115 (4061)	160 (215)			
		530	125 (4414)	185 (250)			
NBE3-420	160 (25)	300	90 (3178)	110 (150)	300	5.8-13.5 (25.5-59.5)	3300 (7275)
		340	116 (4097)	132 (175)			
		390	131 (4626)	160 (215)			
		440	146 (5156)	185 (250)			
		490	160 (5650)	200 (270)			
		530	170 (6003)	250 (335)			
		570	183 (6463)	250 (335)			

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NBE3-500	160 (25)	260	146 (5156)	160 (215)	350	7.8-18.3 (34.5-80.5)	5400 (11905)
		300	168 (5933)	200 (270)			
		340	190 (6710)	250 (335)			
		380	210 (7416)	280 (375)			
		420	230 (8122)	315 (425)			
		470	260 (9182)	400 (535)			
NBE3-520	160 (25)	260	180 (6357)	200 (270)	350	9.5-22.2 (42-98)	6000 (13230)
		300	205 (7240)	250 (335)			
		340	233 (8228)	280 (375)			
		380	257 (9076)	315 (425)			
		420	280 (9888)	400 (535)			
		470	315 (11124)	500 (670)			
NBE3-600	160 (25)	230	212 (7487)	250 (335)	400	12.5-25.4 (55-112)	8200 (18080)
		260	241 (8511)	280 (375)			
		290	267 (9429)	315 (425)			
		320	292 (10312)	315 (425)			
		350	316 (11159)	450 (600)			
		400	360 (12713)	560 (750)			
NBE3-620	160 (25)	230	260 (9182)	280 (375)	400	13.2-30.9 (58-136)	9100 (20065)
		260	290 (10241)	355 (475)			
		290	325 (11477)	400 (535)			
		320	366 (12925)	450 (600)			
		350	385 (13596)	500 (670)			
		400	437 (15433)	630 (845)			
NBE3-670	160 (25)	210	300 (10594)	315 (425)	500	15.5-36.4 (68.5-160)	11600 (25575)
		240	348 (12290)	400 (535)			
		270	385 (13596)	450 (600)			
		300	425 (15009)	500 (670)			
		320	450 (15892)	560 (750)			
		330	463 (16351)	630 (845)			
		370	518 (18293)	710 (950)			
NBE3-720	160 (25)	190	365 (12890)	400 (535)	500	18.6-43.5 (82-191.5)	11600 (25575)
		210	410 (14479)	450 (600)			
		240	460 (16245)	560 (750)			
		270	510 (18011)	630 (845)			
		300	564 (19918)	710 (950)			
		340	633 (22354)	900 (1200)			
NBE3-800	160 (25)	190	513 (18116)	560 (750)	600	26-60.9 (114.5-268)	18700 (41230)
		210	562 (19847)	630 (845)			
		240	630 (22248)	800 (1075)			
		270	710 (25073)	900 (1200)			
		300	790 (27899)	1120 (1500)			
NBE3-1000	160 (25)	170	850 (30018)	1120 (1500)	700	45-110 (198-484)	26000 (57320)
		190	920 (32490)	1400 (1875)			
		210	1000 (35315)	1400 (1875)			
		225	1100 (38846)	1600 (2145)			
		240	1200 (42378)	1800 (2415)			

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