



SHANDONG DACHENG MACHINERY TECHNOLOGY CO.,LTD

ZHANGQIU CITY, SHANDONG PROVINCE, 250200 CHINA

Web: <http://www.chinadicheng.com> E-mail: zqdicheng@chinadicheng.com

TEL: 0086-0531-83216898

FAX: 0086-0531-83216898

DSR-VH High Pressure Roots Vacuum Pump

Our DSR series roots vacuum pump is pre intake vacuum pump. The vacuum pump is used for absorbing high vacuum.

Dia. meter: 80-300mm

Air capacity: 0.5-223m³/min

Vacuum Pressure: 9.8-73.5Kpa



Main Advantages

- (1) High vacuum pressure roots type blower, much higher than common roots vacuum pumps.
- (2) Air cooling, don't need water cooling system even at high vacuum pressure.
- (3) Advanced structure design, low vibration and noise level.
- (4) Positive displacement structure, flow rate changes little even pressure changes.
- (5) Long service life term, more than 10 years under the guidance.
- (6) Adopt a pre intake vacuum technologies, advanced and reasonable structural design.
- (7) The impeller adopts a specially designed composite line with high efficiency.
- (8) The processing precision of key parts is high to ensure the smooth operation of the vacuum pump
- (9) High vacuum, wide flow coverage

Roots vacuum pump in petroleum, chemical industry, plastics, pesticides, steam turbine rotor dynamic balance, aerospace space simulation and other devices have been tested for a long time, so it should be vigorously promoted and applied all around the world. It is also widely used in petroleum, chemical, metallurgy, textile and other industries.



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Performance Table

1.The air capacity and pressure in the tables is in standard suction state. The standard suction state is 20°C temperature, 1.033 kgf/cm²(101.3Kpa) Standard atmospheric pressure and 65% relative humidity.

The air capacity and pressure range of some blower models is repeated, to ensure the service life and low noise, should use the larger model.

DSR-80VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m ³ /min)	Shaft Power (KW)	Motor (KW)
1470	-13.3	4.03	1.60	2.2
	-19.9	3.89	2.16	3
	-26.6	3.74	2.73	3
	-33.3	3.59	3.30	4
	-39.9	3.43	3.86	5.5
	-43.9	3.35	4.20	5.5
	-53.3	3.28	4.90	7.5
	-59.9	3.17	5.79	7.5
	-66.5	3.04	6.12	7.5
	-73.5	2.92	6.53	7.5



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DSR-100VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
1240	-13.3	5.27	1.97	3
	-19.9	4.99	2.74	4
	-26.6	4.72	3.52	4
	-33.3	4.46	4.29	5.5
	-39.9	4.20	5.07	5.5
	-43.9	4.07	5.52	7.5
	-53.3	3.93	6.45	7.5
	-59.9	3.82	7.03	11
	-66.5	3.70	7.69	11
	-73.5	3.58	8.43	11
1320	-13.3	5.80	2.09	3
	-19.9	5.54	2.94	4
	-26.6	5.27	3.79	5.5
	-33.3	5.01	4.65	5.5
	-39.9	4.74	5.59	7.5
	-43.9	4.58	6.00	7.5
	-53.3	4.46	7.13	11
	-59.9	4.35	7.80	11
	-66.5	4.23	8.50	11
	-73.5	4.12	9.35	11
1480	-13.3	6.51	2.27	3
	-19.9	6.28	3.19	4
	-26.6	6.05	4.14	5.5
	-33.3	5.82	5.05	5.5
	-39.9	5.60	5.97	7.5
	-43.9	5.47	6.51	7.5
	-53.3	5.35	8.03	11
	-59.9	5.24	8.84	11
	-66.5	5.12	9.63	11
	-73.5	5.02	10.48	15



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1580	-13.3	6.99	2.45	3
	-19.9	6.77	3.43	4
	-26.6	6.55	4.44	5.5
	-33.3	6.33	5.44	7.5
	-39.9	6.10	6.40	7.5
	-43.9	5.96	7.58	11
	-53.3	5.84	8.50	11
	-59.9	5.72	9.82	11
	-66.5	5.60	10.71	15
	-73.5	5.47	11.58	15

DSR-125VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
980	-13.3	6.24	2.27	5.5
	-19.9	5.97	3.17	5.5
	-26.6	5.70	4.07	5.5
	-33.3	5.42	4.97	5.5
	-39.9	5.14	5.86	7.5
	-43.9	5.01	6.40	7.5
	-53.3	4.84	7.40	11
	-59.9	4.72	8.93	11
	-66.5	4.60	9.78	11
	-73.5	4.48	10.69	15
1050	-13.3	6.75	2.60	5.5
	-19.9	6.48	3.53	5.5
	-26.6	6.21	4.47	5.5
	-33.3	5.94	5.41	7.5
	-39.9	5.66	6.53	7.5
	-43.9	5.61	7.60	11
	-53.3	5.50	8.82	11
	-59.9	5.38	9.75	11
	-66.5	5.26	10.68	15
	-73.5	5.14	11.58	15



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1200	-13.3	7.77	3.26	5.5
	-19.9	7.51	4.31	5.5
	-26.6	7.25	5.37	7.5
	-33.3	6.98	6.42	7.5
	-39.9	6.69	7.47	11
	-43.9	6.58	8.48	11
	-53.3	6.43	9.95	15
	-59.9	6.30	11.20	15
	-66.5	6.26	12.23	15
	-73.5	6.13	13.28	15
1310	-13.3	8.57	3.71	5.5
	-19.9	8.36	4.87	5.5
	-26.6	8.13	6.02	7.5
	-33.3	7.88	7.18	7.5
	-39.9	7.61	8.33	11
	-43.9	7.44	9.40	11
	-53.3	7.30	10.52	15
	-59.9	7.18	11.80	15
	-66.5	7.05	12.78	15
	-73.5	6.90	13.80	15
1410	-13.3	9.27	4.05	5.5
	-19.9	9.05	5.29	7.5
	-26.6	8.82	6.53	7.5
	-33.3	8.57	7.77	11
	-39.9	8.30	9.00	11
	-43.9	8.15	10.20	15
	-53.3	8.00	11.75	15
	-59.9	7.86	12.83	15
	-66.5	7.72	13.90	15
	-73.5	7.60	15.03	18.5



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1470	-13.3	9.70	4.37	5.5
	-19.9	9.48	5.66	7.5
	-26.6	9.25	6.95	7.5
	-33.3	9.02	8.23	11
	-39.9	8.78	9.50	11
	-43.9	8.50	10.90	15
	-53.3	8.35	12.30	15
	-59.9	8.22	13.93	15
	-66.5	8.18	15.32	18.5
	-73.5	8.04	16.58	18.5
1550	-13.3	10.37	4.62	5.5
	-19.9	10.10	5.98	7.5
	-26.6	9.82	7.34	11
	-33.3	9.58	8.70	11
	-39.9	9.33	10.10	11
	-43.9	9.13	11.50	15
	-53.3	9.00	13.00	15
	-59.9	8.86	14.53	18.5
	-66.5	8.73	16.12	18.5
	-73.5	8.60	17.23	22

DSR-150VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
1120	-13.3	17.70	6.61	7.5
	-19.9	17.30	8.94	11
	-26.6	16.80	11.30	15
	-33.3	16.30	13.60	15
	-39.9	15.80	15.90	18.5
	-43.9	15.55	18.30	22
	-53.3	15.40	21.80	30
	-59.9	15.25	23.75	30
	-66.5	15.10	25.80	30
	-73.5	15.00	28.00	30



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1200	-13.3	19.20	7.57	11
	-19.9	18.70	9.93	11
	-26.6	18.20	13.30	15
	-33.3	17.80	15.70	18.5
	-39.9	17.30	18.20	22
	-43.9	16.93	20.70	22
	-53.3	16.80	23.00	30
	-59.9	16.65	25.73	30
	-66.5	16.50	28.82	37
	-73.5	16.35	31.30	37
1270	-13.3	20.30	8.40	11
	-19.9	19.90	10.80	15
	-26.6	19.50	13.20	15
	-33.3	19.10	15.60	18.5
	-39.9	18.70	18.00	22
	-43.9	18.09	20.42	22
	-53.3	17.90	23.83	30
	-59.9	17.83	26.50	30
	-66.5	17.70	29.30	37
	-73.5	17.65	32.80	37
1470	-13.3	22.50	10.50	15
	-19.9	22.10	13.20	15
	-26.6	21.70	15.90	18.5
	-33.3	21.30	18.60	22
	-39.9	20.90	21.30	30
	-43.9	20.69	24.00	30
	-53.3	20.50	26.80	37
	-59.9	20.35	31.00	37
	-66.5	20.20	34.00	37
	-73.5	20.05	37.00	45



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1540	-13.3	24.70	12.50	15
	-19.9	24.20	15.40	18.5
	-26.6	23.70	18.30	22
	-33.3	23.20	21.20	30
	-39.9	22.70	24.00	30
	-43.9	22.25	27.10	30
	-53.3	22.10	30.35	37
	-59.9	21.95	33.40	37
	-66.5	21.80	37.00	45
	-73.5	21.65	40.00	45

DSR-200AVH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
850	-13.3	24.84	10.07	15
	-19.9	23.90	13.81	15
	-26.6	23.10	16.65	18.5
	-33.3	22.55	19.14	22
	-39.9	21.51	21.70	30
	-43.9	19.89	24.80	30
	-53.3	18.30	27.80	30
	-59.9	16.80	31.00	37
	-66.5	14.50	34.70	37
	-73.5	13.10	37.00	45
900	-13.3	26.63	11.46	15
	-19.9	25.75	14.56	18.5
	-26.6	24.86	17.75	22
	-33.3	24.28	20.53	22
	-39.9	23.42	23.38	30
	-43.9	22.10	27.14	30
	-53.3	20.80	31.50	37
	-59.9	19.50	34.00	37
	-66.5	18.30	37.90	45
	-73.5	16.80	41.00	45



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950	-13.3	28.18	11.96	15
	-19.9	27.24	15.70	18.5
	-26.6	26.55	19.01	22
	-33.3	25.88	21.74	30
	-39.9	24.96	25.15	30
	-43.9	23.42	28.86	37
	-53.3	22.10	32.90	37
	-59.9	20.80	36.10	45
	-66.5	19.50	40.60	45
	-73.5	18.00	44.30	55
1070	-13.3	31.80	14.20	18.5
	-19.9	31.32	18.48	22
	-26.6	30.57	22.64	30
	-33.3	29.95	25.53	30
	-39.9	29.08	29.27	37
	-43.9	28.02	33.12	37
	-53.3	27.00	37.10	45
	-59.9	25.90	42.00	45
	-66.5	24.50	46.40	55
	-73.5	23.00	50.20	55
1160	-13.3	35.15	16.11	18.5
	-19.9	34.25	20.99	30
	-26.6	33.65	24.85	30
	-33.3	32.91	28.58	30
	-39.9	32.03	32.33	37
	-43.9	30.98	36.84	45
	-53.3	29.50	40.10	45
	-59.9	28.10	45.40	55
	-66.5	27.60	50.90	55
	-73.5	26.00	55.80	75



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1240	-13.3	37.47	18.02	22
	-19.9	36.62	23.57	30
	-26.6	35.79	27.67	30
	-33.3	35.13	31.53	37
	-39.9	34.23	35.84	37
	-43.9	32.59	40.58	45
	-53.3	31.00	45.00	55
	-59.9	29.50	50.30	55
	-66.5	28.10	55.60	75
	-73.5	26.80	59.14	75
1320	-13.3	40.00	22.19	30
	-19.9	39.12	26.00	30
	-26.6	38.32	30.85	37
	-33.3	37.66	35.35	37
	-39.9	36.67	39.61	45
	-43.9	34.68	44.80	55
	-53.3	32.60	49.80	55
	-59.9	31.10	56.20	75
	-66.5	30.00	60.00	75
	-73.5	28.50	65.80	75

DSR-200VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
810	-13.3	31.07	10.38	18.5
	-19.9	29.92	14.89	18.5
	-26.6	29.01	18.96	22
	-33.3	28.16	23.20	30
	-39.9	27.08	27.43	30
	-43.9	26.72	32.85	37
	-53.3	25.65	37.10	45
	-59.9	25.00	41.85	55
	-66.5	24.45	46.90	55
	-73.5	24.00	51.30	55



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900	-13.3	34.92	12.49	18.5
	-19.9	33.98	17.37	18.5
	-26.6	33.12	22.01	30
	-33.3	32.28	26.82	30
	-39.9	31.19	31.49	37
	-43.9	29.76	34.30	37
	-53.3	29.60	39.20	45
	-59.9	28.45	45.37	55
	-66.5	27.30	50.51	55
	-73.5	26.15	56.00	75
980	-13.3	38.39	14.40	18.5
	-19.9	37.24	19.66	22
	-26.6	36.85	24.80	30
	-33.3	35.97	30.06	37
	-39.9	35.10	35.14	37
	-43.9	34.60	41.19	45
	-53.3	34.45	46.50	55
	-59.9	34.30	51.80	55
	-66.5	34.00	56.89	75
	-73.5	33.50	61.00	75
1070	-13.3	42.37	16.95	18.5
	-19.9	41.02	21.61	30
	-26.6	40.97	27.72	30
	-33.3	40.09	33.57	37
	-39.9	38.86	39.32	45
	-43.9	36.37	44.81	55
	-53.3	36.22	50.00	55
	-59.9	36.07	55.71	75
	-66.5	35.90	61.83	75
	-73.5	35.74	66.10	75



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1150	-13.3	45.90	18.61	22
	-19.9	45.25	24.06	30
	-26.6	44.65	30.15	37
	-33.3	43.72	36.35	45
	-39.9	42.50	42.76	45
	-43.9	40.96	46.16	55
	-53.3	40.80	52.71	55
	-59.9	40.65	58.83	75
	-66.5	40.50	65.22	75
	-73.5	40.32	70.58	75
1230	-13.3	49.01	20.58	22
	-19.9	48.38	26.74	30
	-26.6	47.79	33.47	37
	-33.3	47.02	40.25	45
	-39.9	45.87	46.83	55
	-43.9	43.78	53.74	55
	-53.3	43.60	60.90	75
	-59.9	43.45	67.20	75
	-66.5	43.30	74.32	90
	-73.5	43.13	81.83	90
1310	-13.3	52.26	23.03	30
	-19.9	51.61	29.61	37
	-26.6	50.95	36.65	45
	-33.3	50.33	43.84	45
	-39.9	49.24	50.97	55
	-43.9	46.60	55.13	75
	-53.3	46.40	62.00	75
	-59.9	46.25	69.28	75
	-66.5	46.10	76.50	90
	-73.5	45.95	83.00	90



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1390	-13.3	55.22	25.15	30
	-19.9	54.65	32.33	37
	-26.6	54.11	39.86	45
	-33.3	53.61	47.40	55
	-39.9	52.64	55.03	75
	-43.9	51.44	63.57	75
	-53.3	50.28	70.20	75
	-59.9	49.14	77.80	90
	-66.5	49.00	85.01	90
	-73.5	48.59	93.20	110
1480	-13.3	58.65	27.52	30
	-19.9	57.17	34.83	37
	-26.6	57.00	42.13	45
	-33.3	56.50	49.20	55
	-39.9	56.00	57.06	75
	-43.9	55.40	70.76	75
	-53.3	55.00	78.03	90
	-59.9	54.30	84.00	90
	-66.5	53.70	91.28	110
	-73.5	53.00	98.50	110

DSR-250VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
980	-13.3	62.70	25.15	30
	-19.9	62.10	33.54	37
	-26.6	61.00	42.15	45
	-33.3	60.20	51.36	55
	-39.9	59.50	57.26	75
	-43.9	58.90	64.42	75
	-53.3	58.70	72.00	75
	-59.9	58.48	78.30	90
	-66.5	58.26	85.20	90
	-73.5	58.00	93.50	110



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1170	-13.3	73.90	30.06	37
	-19.9	73.00	36.99	45
	-26.6	72.20	43.75	45
	-33.3	71.40	50.12	55
	-39.9	70.50	58.28	75
	-43.9	69.40	65.59	75
	-53.3	69.15	74.10	90
	-59.9	68.93	81.02	90
	-66.5	68.73	89.20	110
	-73.5	68.50	97.00	110
1250	-13.3	78.60	34.20	37
	-19.9	77.50	40.61	45
	-26.6	76.40	47.58	55
	-33.3	75.50	54.05	75
	-39.9	74.10	62.75	75
	-43.9	73.00	69.47	75
	-53.3	72.80	76.50	90
	-59.9	72.58	84.00	90
	-66.5	72.28	92.60	110
	-73.5	72.00	99.00	110
1360	-13.3	86.60	37.21	45
	-19.9	85.90	44.18	55
	-26.6	84.80	51.47	55
	-33.3	83.70	58.83	75
	-39.9	82.00	68.66	75
	-43.9	80.10	77.38	90
	-53.3	79.80	86.30	90
	-59.9	79.51	97.20	110
	-66.5	79.18	108.80	132
	-73.5	78.90	118.50	132



SHANDONG DACHENG MACHINERY TECHNOLOGY CO.,LTD

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TEL: 0086-0531-83216898

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1480	-13.3	93.20	40.50	45
	-19.9	91.70	46.80	55
	-26.6	89.80	53.43	75
	-33.3	88.50	61.26	75
	-39.9	87.80	69.58	75
	-43.9	86.20	78.91	90
	-53.3	86.00	88.50	110
	-59.9	85.73	99.30	110
	-66.5	85.58	109.80	132
	-73.5	85.26	119.30	132

DSR-300VH

Rotary Speed (rpm)	Pressure Rise (Kpa)	Air Capacity (m3/min)	Shaft Power (KW)	Motor (KW)
980	-13.3	89.00	41.34	45
	-19.9	88.40	47.25	55
	-26.6	87.80	62.00	75
	-33.3	87.00	70.58	75
	-39.9	86.20	82.68	90
	-43.9	85.10	87.54	90
	-53.3	84.75	116.30	132
	-59.9	84.32	128.60	132
	-66.5	84.00	140.70	160
	-73.5	83.63	153.40	160
1170	-13.3	105.40	45.11	55
	-19.9	104.50	52.13	75
	-26.6	103.20	73.31	75
	-33.3	102.00	82.44	90
	-39.9	100.80	92.00	110
	-43.9	98.80	103.49	110
	-53.3	98.40	129.00	132
	-59.9	98.00	141.30	160
	-66.5	97.50	154.00	160
	-73.5	97.00	167.30	185



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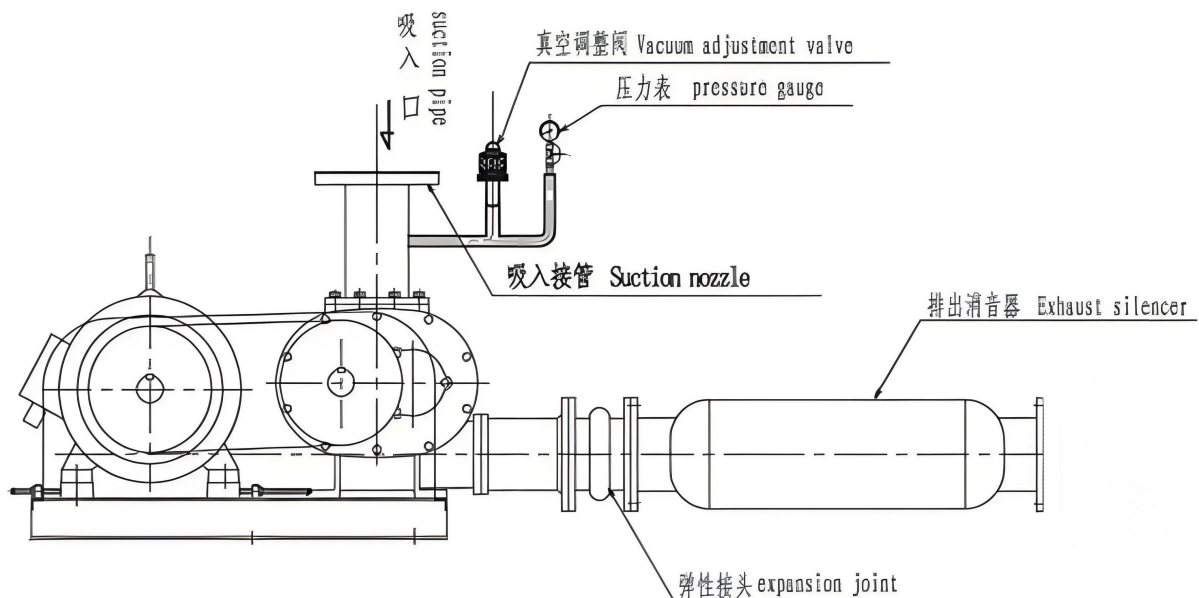
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1250	-13.3	112.50	48.20	55
	-19.9	111.60	59.67	75
	-26.6	110.80	73.32	90
	-33.3	110.00	91.37	110
	-39.9	109.10	100.65	110
	-43.9	108.00	110.57	132
	-53.3	107.30	139.50	160
	-59.9	106.70	145.10	160
	-66.5	106.10	164.00	185
	-73.5	105.50	177.00	200

Piping Layout





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Fixed/mobile vacuum suction and exhaust unit

This device adopts our high-pressure Roots vacuum pump and uses the principle of negative pressure delivery. It operates without dust, with high negative pressure suction, large flow rate, long distance, and high efficiency.

Suitable for high-density materials such as steel sand, aluminum sand, etc.

Suitable for large particle materials, the material diameter can reach 3-5 centimeters.

Suitable for long-distance transportation, with a conveying distance of up to 60 meters.

This device supports customization, please feel free to contact us at any time.

