

Rotary Vane

VARIAIR

Oil-less Vacuum Pumps – 2.8 to 353 CFM, 27 in.HgV max.

Oil-less Compressors – 2.8 to 353 CFM, 25 PSIG max.

Oil-less Combination Vacuum Pumps/Compressors
 – 11 to 173 CFM, 18 in.Hg/9 PSIG

Oil-Flooded Vacuum Pumps – 4.6 to 440 CFM, 2 Torr or 0.4 Torr ultimate pressure

VariAir Oil-less Vacuum Pumps – 12 to 173 CFM, 27 in.HgV max.

VariAir Oil-less Compressors – 12 to 173 CFM, 25 PSIG max.

Oil-less Vacuum Pumps – 2.8 to 353 CFM, 27 in.HgV max.

Oil-less Compressors – 2.8 to 353 CFM, 25 PSIG max.

Oil-less Combination Vacuum/Compressor – 11 to 173 CFM, 18 in.Hg/9 PSIG

All X-Series pumps have a 20,000 hour warranty—The world's longest lasting dry vanes!

Dry Rotary Screw

VARIAIR

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VADS1500 (VariAir Direct Screw)
VariAir Vacuum Pumps – 460 to 840 CFM, 24 in.HgV max.

VariAir Compressors – 460 to 840 CFM, 15 PSIG max.

VADS250 (VariAir Direct Spindle) – 174 CFM max., <0.075 torr ult. pressure

Central Vacuum Systems


Advantage-D – 100% Oil-less vacuum systems, to 27 in.HgV

Advantage-L – Oil-flooded vacuum systems, to 2 torr abs.

Advantage-P – Laboratory auto-purge central vacuum systems

Advantage-X – Systems incorporating the world's longest lasting dry vane pumps, with a 4-year bumper-to-bumper warranty.

Advantage-W – Specifically designed to meet the needs of woodworkers and others requiring vacuum hold-down with CNC routers

Regenerative Blowers

VARIAIR
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1 & 2-Stage Vacuum Blowers –

 29 to 736 CFM, 171 in.H₂O vac. max.

1 & 2-Stage Pressure Blowers –

 29 to 736 CFM, 236 in. H₂O pr. max.

VariAir 1 & 2-Stage Vacuum Blowers – Up to 460 CFM, 181 in.H₂O vac. max.

VariAir 1 & 2-Stage Pressure Blowers – Up to 460 CFM, 250 in. H₂O pr. max.

VariAir Watercooled 1 to 4-Stage Vacuum Blowers – Up to 400 CFM, 28 in.HgV max.

VariAir Watercooled 1 to 4-Stage Pressure Blowers – Up to 400 CFM, 18 PSIG max.

Accessories


Eductors
Vacuum Pump Oil
Absolute Pressure Vacuum Gauges
Liquid/Dry Filter/Separators
...and more
Nationwide Sales and Service: USA and Canada
888-633-1083

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NOTE: Data indicates a product line range. Performance of some models may be limited. Contact the factory for specific engineering data and performance curves.

VARIAIR is Becker's Patented Intelligent Variable Speed Technology



PRESSURE EQUIVALENTS																		
Torr (mmHgA)	In HgA (HgA)	mbar	Pascals (Pa N/m ²)	Hectopascals hPa	Kilopascal kPa	PSIA	Bar	Atm.	Micron (μ millitorr)									
Absolute Pressures										Relative Pressures								
Atmospheric Pressure																		
760	29.9213	1013.25	101325	1013.25	101.325	14.6956	1.01325	1	760000	0	0	0	0	0	0			
750	29.528	999.92	99991.78	999.92	99.99	14.502	1	0.99	750000	0.394	-0.193	13.332	1.316	5.353	0.446			
725	28.543	966.59	96658.72	966.59	96.66	14.019	0.967	0.95	725000	1.378	-0.677	46.663	4.605	18.734	1.561			
700	27.559	933.26	93325.66	933.26	93.33	13.535	0.933	0.92	700000	2.362	-1.160	79.993	7.895	32.116	2.676			
675	26.575	899.93	89992.6	899.93	89.99	13.052	0.9	0.89	675000	3.346	-1.644	113.324	11.184	45.497	3.791			
650	25.591	866.6	86659.54	866.6	86.66	12.569	0.867	0.86	650000	4.331	-2.127	146.655	14.474	58.879	4.907			
625	24.606	833.26	83326.48	833.26	83.33	12.085	0.833	0.82	625000	5.315	-2.610	179.985	17.763	72.261	6.022			
600	23.622	799.93	79993.42	799.93	79.99	11.602	0.8	0.79	600000	6.299	-3.094	213.316	21.053	85.642	7.137			
575	22.638	766.6	76660.36	766.6	76.66	11.118	0.767	0.76	575000	7.283	-3.577	246.646	24.342	99.024	8.252			
550	21.654	733.27	73327.3	733.27	73.33	10.635	0.733	0.72	550000	8.267	-4.061	279.977	27.632	112.405	9.367			
525	20.669	699.94	69994.24	699.94	69.99	10.152	0.7	0.69	525000	9.252	-4.544	313.308	30.921	125.787	10.482			
500	19.685	666.61	66661.18	666.61	66.66	9.668	0.667	0.66	500000	10.236	-5.027	346.638	34.211	139.168	11.597			
475	18.701	633.28	63328.13	633.28	63.33	9.185	0.633	0.63	475000	11.22	-5.511	379.969	37.5	152.555	12.713			
450	17.717	599.95	59995.07	599.95	60	8.701	0.6	0.59	450000	12.204	-5.994	413.299	40.789	165.932	13.828			
425	16.732	566.62	56662.01	566.62	56.66	8.218	0.567	0.56	425000	13.188	-6.478	446.63	44.079	179.313	14.943			
400	15.748	533.29	53328.95	533.29	53.33	7.735	0.533	0.53	400000	14.173	-6.961	479.961	47.368	192.695	16.058			
390	15.354	519.96	51995.72	519.96	52	7.541	0.52	0.51	390000	14.566	-7.154	493.293	48.684	198.047	16.504			
380	14.961	506.63	50662.5	506.63	50.66	7.348	0.507	0.5	380000	14.96	-7.348	506.625	50	203.4	16.95			
370	14.567	493.29	49329.28	493.29	49.33	7.154	0.493	0.49	370000	15.354	-7.541	519.957	51.316	208.753	17.396			
360	14.173	479.96	47996.05	479.96	48	6.961	0.48	0.47	360000	15.747	-7.735	533.289	52.632	214.105	17.842			
350	13.78	466.63	46662.83	466.63	46.66	6.768	0.467	0.46	350000	16.141	-7.928	546.622	53.947	219.458	18.288			
340	13.386	453.3	45329.61	453.3	45.33	6.574	0.453	0.45	340000	16.535	-8.121	559.954	55.263	224.811	18.734			
330	12.992	439.96	43996.38	439.96	44	6.381	0.44	0.43	330000	16.928	-8.315	573.286	56.579	230.163	19.18			
320	12.598	426.63	42663.16	426.63	42.66	6.188	0.427	0.42	320000	17.322	-8.508	586.618	57.895	235.516	19.626			
310	12.205	413.3	41329.93	413.3	41.33	5.994	0.413	0.41	310000	17.716	-8.701	599.951	59.211	240.868	20.072			
300	11.811	399.97	39996.71	399.97	40	5.801	0.4	0.39	300000	18.109	-8.895	613.283	60.526	246.221	20.518			
290	11.417	386.63	38663.49	386.63	38.66	5.608	0.387	0.38	290000	18.503	-9.088	626.615	61.842	251.574	20.965			
280	11.024	373.3	37330.26	373.3	37.33	5.414	0.373	0.37	280000	18.897	-9.281	639.947	63.158	256.926	21.411			
270	10.63	359.97	35997.04	359.97	36	5.221	0.36	0.36	270000	19.291	-9.475	653.28	64.474	262.279	21.857			
260	10.236	346.64	34663.82	346.64	34.66	5.027	0.347	0.34	260000	19.684	-9.668	666.612	65.789	267.632	22.303			
250	9.843	333.31	33330.59	333.31	33.33	4.834	0.333	0.33	250000	20.078	-9.862	679.944	67.105	272.984	22.749			
240	9.449	319.97	31997.37	319.97	32	4.641	0.32	0.32	240000	20.472	-10.055	693.276	68.421	278.337	23.195			
230	9.055	306.64	30664.14	306.64	30.66	4.447	0.307	0.3	230000	20.865	-10.248	706.609	69.737	283.689	23.641			
220	8.661	293.31	29330.92	293.31	29.33	4.254	0.293	0.29	220000	21.259	-10.442	719.941	71.053	289.042	24.087			
210	8.268	279.98	27997.7	279.98	28	4.061	0.28	0.28	210000	21.653	-10.635	733.273	72.368	294.395	24.533			
200	7.874	266.64	26664.47	266.64	26.66	3.867	0.267	0.26	200000	22.046	-10.828	746.605	73.684	299.747	24.979			
190	7.48	253.31	25331.25	253.31	25.33	3.674	0.253	0.25	190000	22.44	-11.022	759.938	75	305.1	25.425			
180	7.087	239.98	23998.02	239.98	24	3.481	0.24	0.24	180000	22.834	-11.215	773.27	76.316	310.453	25.871			
170	6.693	226.65	22664.8	226.65	22.66	3.287	0.227	0.22	170000	23.227	-11.408	786.602	77.632	315.805	26.317			
160	6.299	213.32	21331.58	213.32	21.33	3.094	0.213	0.21	160000	23.621	-11.602	799.934	78.947	321.158	26.763			
150	5.906	199.98	19998.36	199.98	20	2.9	0.2	0.2	150000	24.015	-11.795	813.266	80.263	326.511	27.209			
140	5.512	186.65	18665.13	186.65	18.67	2.707	0.187	0.18	140000	24.408	-11.989	826.599	81.579	331.863	27.655			
130	5.118	173.32	17331.91	173.32	17.33	2.514	0.173	0.17	130000	24.802	-12.182	839.931	82.895	337.216	28.101			
120	4.724	159.99	15998.68	159.99	16	2.32	0.16	0.16	120000	25.196	-12.375	853.263	84.211	342.568	28.547			
110	4.33	146.66	14663.24	146.66	14.67	2.13	0.146	0.14	110000	25.593	-12.568	866.594	85.526	347.92	28.993			
100	3.937	133.33	13332.63	133.33	13.33	1.934	0.133	0.13	100000	25.988	-12.762	879.928	86.842	353.274	29.44			
95	3.74	126.66	12666.12	126.66	12.67	1.837	0.127	0.12	95000	26.38	-12.859	893.26	88.158	358.626	29.886			
90	3.543	119.99	11999.01	119.99	12	1.74	0.12	0.12	90000	26.777	-12.955	906.602	89.474	363.979	30.332			
85	3.346	113.32	11332.4	113.32	11.33	1.644	0.113	0.11	85000	26.574	-13.052	919.944	90.789	369.332	30.778			
80	3.15	106.66	10665.79	106.66	10.67	1.547	0.107	0.11	80000	26.971	-13.149	933.286	92.105	374.684	31.224			
75	2.953	99.99	9999.18	99.99	10	1.45	0.1	0.1	75000	26.967	-13.245	946.618	93.421	379.637	31.67			
70	2.756	93.33	9332.57	93.33	9.33	1.354	0.093	0.09	70000	27.164	-13.342	959.959	94.737	384.99	32.116			
65	2.559	86.66	8665.95	86.66	8.67	1.257	0.087	0.09	65000	27.361	-13.439	973.29	96.053	390.342	32.562			
60	2.362	79.99	7999.34	79.99	8	1.16	0.08	0.08	60000	27.558	-13.535	986.629	97.368	395.694	33.008			
55	2.165	73.33	7332.73	73.33	7.33	1.063	0.073	0.07	55000	27.755	-13.632	999.969	98.684	401.047	33.454			
50	1.969	66.66	6666.12	66.66	6.67	0.967	0.067	0.07	50000	27.952	-13.729	1013.304	100.000	406.400	33.900			
45	1.772	60	5999.51	60	6	0.87	0.06	0.06	45000	28.148	-13.825	1026.635	101.316	411.753	34.346			
40	1.575	53.33	5332.89	53.33	5.33	0.773	0.053	0.05	40000	28.345	-13.922	1039.966	102.632	417.105	34.791			
35	1.378	46.66	4666.28	46.66	4.67	0.677	0.047	0.05	35000	28.542	-14.019	1053.297	103.947	422.458	35.237			
30	1.181	40	3999.67	40	4	0.58	0.04	0.04	30000	28.739	-14.116	1066.628	105.263	427.811	35.682			
25	0.984	33.33	3333.06	33.33	3.33	0.483	0.033	0.03	25000	28.936	-14.212	1079.959	106.578	433.163	36.128			
24	0.945	32	3199.74	32	3.2	0.464	0.032	0.03	24000	28.975	-14.232	1081.253	106.842	433.954	36.163			
23	0.906	30.66	3066.41	30.66	3.07	0.445	0.031	0.03	23000	29.015	-14.251	1082.547	107.105	434.745	36.198			
22	0.866	29.33	2933.09	29.33	2.93	0.425	0.029	0.03	22000	29.054	-14.270	1083.841	107.368	435.536	36.233			
21	0.827	28	2799.77	28	2.8	0.406	0.028	0.03	21000	29.093	-14.289	1085.135	107.632	436.327	36.268			
20	0.787	26.66	2666.45	26.66	2.67	0.387	0.027	0.03	20000	29.133	-14.308	1086.429	107.895	437.118	36.303			
19	0.748	25.33	2533.13	25.33	2.53	0.367	0.025	0.03	19000	29.172	-14.327	1087.723	108.158	437.909	36.338			
18	0.709	24	2399.8	24	2.4	0.348	0.024	0.02	18000	29.211	-14.346	1089.017	108.421	438.700	36.373			
17	0.669	22.66	2266.48	22.66	2.27	0.329	0.023	0.02	17000	29.251	-14.365	1090.311	108.684	439				