

Lubricated Rotary Vane Vacuum Pumps



- NEMA Premium motors
- Oil sight glass

Single-stage, oil-flooded units are direct driven. Oil-free discharge through large droplet separation followed by oil mist filters. Gas ballast. Also include fine mesh filter, vacuum nonreturn valve, and initial fill of oil.



5KY77



5KY78

Vacuum Pump (HP)	For Use With	H (in.)	Mfr. Model	Item No.
Replacement Filter Elements				
1	Mfr. No. VCB-20	3 1/2 in	731399	36Z457
1 1/2	Mfr. No. VCE-25	1 3/8 in	3136586000	36Z458
3	Mfr. No. VC-50 and VC-75	4 7/8 in	474	36Z459
5	Mfr. No. VC-100	4 7/8 in	475	36Z460



5KY81

HP	Phase	Voltage	Amps AC	Displacement	End Vacuum	Max. dBA	NPT Inlet	L	Overall W	H	Mfr. Model	Item No.
Pumps												
1 1/2 hp	Single	115/230V AC	15/7.5	13.0 cfm	29.9 in Hg	64	1/2 in	16.12 in	9.31 in	7.06 in	VCB-20	5KY77
	Three	200V AC	5.3	18.0 cfm	29.6 in Hg	59	3/4 in	20.37 in	13.12 in	10 in	VCE-25	36Z454
	Three	230/460V AC	4.0/2.0	18.0 cfm	29.6 in Hg	59	3/4 in	21.25 in	13.12 in	10.06 in	VCE-25	5KY78
2 hp	Three	200V AC	6.7	35.0 cfm	29.9 in Hg	67	1 1/4 in	23.81 in	13.25 in	10.5 in	VC-50	36Z455
	Three	230/460V AC	6.0/3.0	35.0 cfm	29.9 in Hg	67	1 1/4 in	24.68 in	13.12 in	10.5 in	VC-50	5KY79
3 hp	Three	208-230/460V AC	8.8-8.6/4.3	49.0 cfm	29.9 in Hg	68	1 1/4 in	27.68 in	13.12 in	10.5 in	VC-75	5KY80
	Three	200V AC	15.2	71.0 cfm	29.9 in Hg	69	1 1/2 in	31.62 in	16 in	11.81 in	VC-100	36Z456
	Three	230/460V AC	13.0/6.5	71.0 cfm	29.9 in Hg	69	1 1/2 in	31.62 in	16 in	11.81 in	VC-100	5KY81



Vacuum Pump Oils

Oils meet rigid requirements for vapor pressure, stability, and viscosity. Tested for high vacuum levels. 3HPD8 is specifically formulated for Gast lubricated rotary vane air motors and rotary vane compressors/vacuum pumps. 6D753 is synthetic oil, recommended for corrosive gas applications.



6D736



Corrosive Environment Vacuum Pumps

▪ Ultimate pressure Torr 1×10^{-4}
2-stage high-vacuum pumps are used for pumping corrosive gases to pressures below 1 Torr (1 mm of Hg). Vane springs, valves, pressure tubes, and oil baffle are made of stainless steel. Oil case is PTFE lined. Nitrogen purge helps reduce corrosion. Gas ballast valve inhibits vapor condensation. Low rpm reduces friction wear. Large oil reservoir dilutes contaminants.



6D735

Description	Container Size	Brand	Mfr. Model	Item No.
Elmo Rietschle VC and VCE Series	1 qt	Elmo Rietschle	75175001	1ARZ3
Elmo Rietschle VCB Series	1 qt	Elmo Rietschle	75175010	2GKG6
Gast Rotary Vane Air Motors and Rotary Vane Compressor/Vacuum Pumps	1 qt	Gast	KAD220-WW	3HPD8
Welch DIRECTORR Direct-Drive	1 qt	Directorr	8995P-11	6D754
Welch DUOSEAL® Belt-Drive	1 qt	Duoseal	1407K-11	6D736
Welch Gold Vacuum Pump Oil	1 L	Gold	8995G-11	6D753

HP	Displacement	Intake Male SAE Flare	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
1/2 hp	0.9 cfm	ISO - NW 16	115V AC	5.6	17.81 in	9 in	12.62 in	1400B-01	5JMT0
1/2 hp	5.6 cfm	ISO - NW 25	115/230V AC	8.6/4.3	19.31 in	14.12 in	15.43 in	1402N-01	6D735
1 hp	10.6 cfm	ISO - NW 25	115/230V AC	11.0/5.5	19.31 in	12.31 in	15.62 in	1376N-01	5JMT1



3Z654



3Z655

DUOSEAL® Standard High-Vacuum Pumps

- Large oil reservoir
- Continuous duty with thermally protected motors
- Ultimate pressure Torr 1×10^{-4}

Low pump rpm (400 to 580 rpm). Pumps operate 20°F cooler than many high-rpm direct-drive pumps. All-metal internal construction and 2-stage rotary valve design.

Contoured molded belt guard and base on 3Z655 and 3Z656 for quieter operation. Gas ballast inhibits condensation inside pump. Factory wired for 115V operation. Intake filter screens. Belt guard, base, motor with On/Off switch, and 3-wire cord. Blue/gray finish. Oil included.

HP	Displacement	Tube Inside Dia.	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
1/2 hp	0.9 cfm	1/8 in	115V AC	5.6	17.75 in	9 in	12.62 in	1400B-01	3Z654
1/2 hp	5.6 cfm	3/8 in	115/230V AC	8.4/4.2	20 in	12 in	15.62 in	1402B-01	3Z655
1 hp	10.6 cfm	1/2 in	115/230V AC	11.0/5.5	19.25 in	14.12 in	15.37 in	1376B-01	3Z656
1 hp	17.7 cfm	3/4 in	115/230V AC	11.0/5.5	26 in	13.75 in	18.75 in	1397B-01	3Z657



ChemStar® Dry Oilless Deep Vacuum Pump

- Chemical duty

Robust dry vacuum pump provides a deep vacuum in extremely harsh chemical applications. Delivers deep vacuum with max. flow of 150 L/min. (9 cfm) at 2 Torr making it ideal for many evaporative processes. Use with freeze dryers, vacuum ovens, and other light industrial applications. 115V, 60 Hz. Inlet/outlet connection: NW 25.



HP	Voltage	Amps AC	End Vacuum	NPT Inlet	Displacement	Mfr. Model	Item No.
1/2 hp	115V AC	3	0.05 torr	3/8 in	1.2 cfm	2070B-01	38XV26