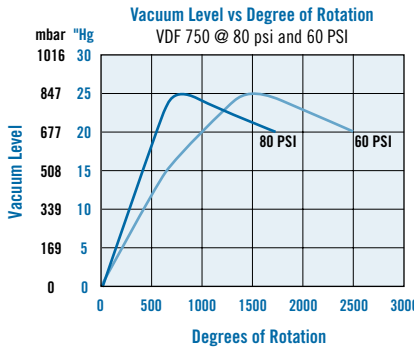
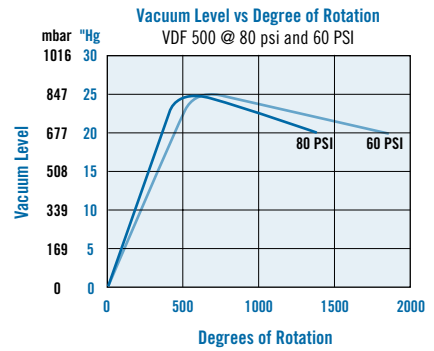
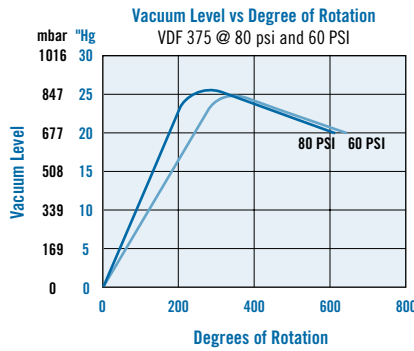
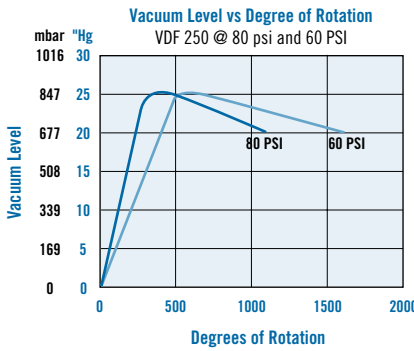
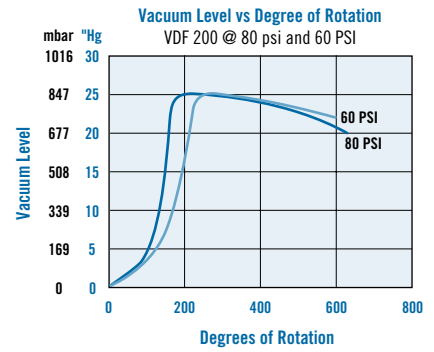
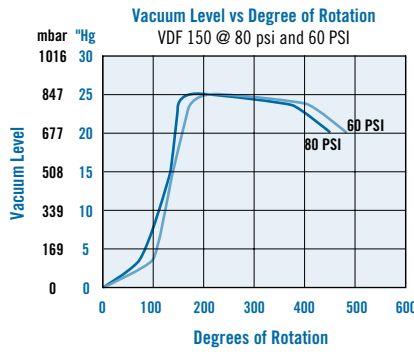
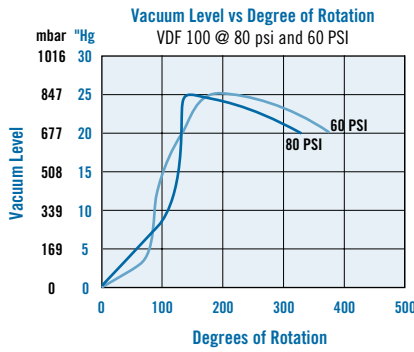


## Vacuum Level vs. Degree of Rotation



## Rotational Chart

Model #	Degrees of Rotation vs. Vacuum Level "Hg @ 80 PSI										Degrees of Rotation vs. Vacuum Level "Hg @ 60 PSI									
	0"	3"	6"	9"	12"	15"	18"	21"	24"	25"	0"	3"	6"	9"	12"	15"	18"	21"	24"	25"
VDF 100	0	30	60	100	115	120	125	130	134	135	0	60	70	80	90	110	120	140	160	170
VDF 150	0	80	90	105	120	135	145	150	160	165	0	90	100	110	120	130	145	165	19-0	195
VDF 200	0	90	105	120	150	160	170	175	185	190	0	100	135	165	175	185	200	215	235	240
VDF 250	0	100	140	180	195	210	250	275	340	355	0	145	180	205	260	320	370	440	510	530
VDF 375	0	60	90	100	125	155	180	195	220	230	0	65	90	115	165	190	210	255	290	300
VDF 500	0	80	130	170	200	260	340	390	460	490	0	100	170	190	260	360	420	480	560	600
VDF 750	0	95	170	260	350	450	540	630	710	730	0	145	260	350	475	610	730	1080	1370	1440

**Note 1:** All degrees of rotation are approximate. For example: At 80 PSI, a VDF 200 to be set at 21" Hg would be rotated approximately 175° from the closed position.

**Note 2:** Performance Charts represent average performance data. For reference only.

## VDF Series Performance Chart

Model #	Imperial - Vacuum Flow (SCFM) vs Vacuum Level ("Hg) with VDF set at 25"Hg									
	0"Hg	3"Hg	6"Hg	9"Hg	12"Hg	15"Hg	18"Hg	21"Hg	24"Hg	25"Hg
VDF 100	2.00	1.80	1.60	1.40	1.30	1.20	1.10	0.75	0.25	0.00
VDF 150	3.20	2.80	2.50	2.20	1.80	1.60	1.30	0.90	0.40	0.00
VDF 200	6.00	5.60	5.00	4.20	3.60	3.00	2.60	1.80	0.90	0.00
VDF 250	10.00	9.20	8.30	7.50	6.60	5.80	5.20	3.80	1.30	0.00
VDF 375	30.00	27.00	25.00	23.00	21.00	18.00	16.00	11.00	3.00	0.00
VDF 500	60.00	52.00	45.00	41.00	38.00	35.00	28.00	19.00	5.00	0.00
VDF 750	120.00	99.00	83.00	74.00	62.00	51.00	46.00	34.00	9.00	0.00

Model #	Imperial - Evacuation Time (seconds) based on 1 cu. ft. volume with VDF set at 25"Hg									
	0"Hg	3"Hg	6"Hg	9"Hg	12"Hg	15"Hg	18"Hg	21"Hg	24"Hg	25"Hg
VDF 100	0.00	3.34	7.95	13.60	20.53	28.48	38.74	53.88	84.15	104.94
VDF 150	0.00	2.57	5.90	10.00	15.39	22.06	31.05	46.18	75.69	97.50
VDF 200	0.00	1.03	2.57	4.11	6.41	9.49	13.34	19.50	31.05	38.23
VDF 250	0.00	0.51	1.03	1.80	2.82	4.11	5.90	9.75	17.19	21.55
VDF 375	0.00	0.00	0.51	1.03	1.28	2.05	3.08	4.87	8.47	12.83
VDF 500	0.00	0.00	0.21	0.48	0.73	1.08	1.54	2.73	4.45	6.92
VDF 750	0.00	0.00	0.00	0.00	0.12	0.38	0.70	1.09	3.07	5.38

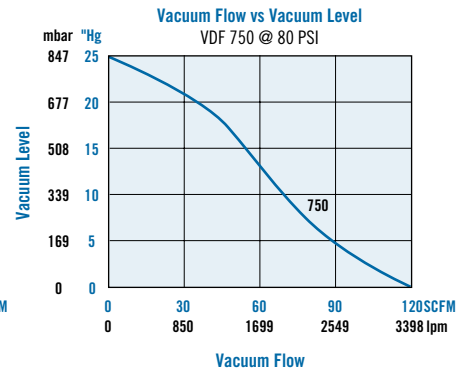
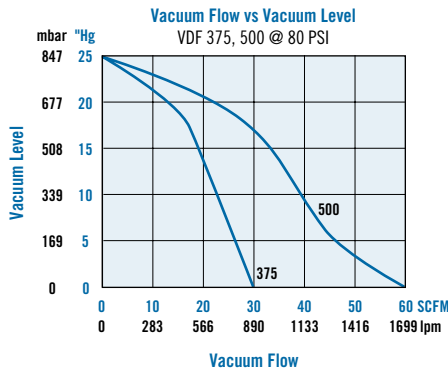
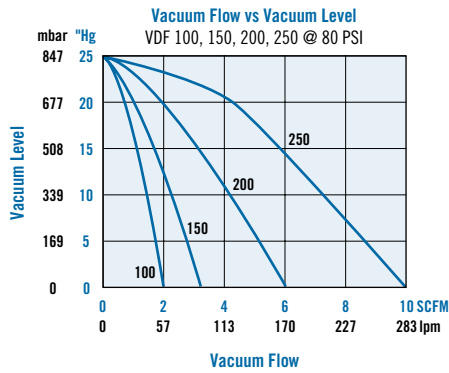
Model #	Metric - Vacuum Flow (LPM) vs Vacuum Level (mbar) with VDF set at 846 mbar									
	0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	711 mbar	813 mbar	846 mbar
I-VDF 100	56.6	51.0	45.3	39.6	36.8	34.0	31.2	21.2	7.1	0.00
I-VDF 150	90.6	79.3	70.8	62.3	51.0	45.3	36.8	25.5	11.3	0.00
I-VDF 200	169.9	158.6	141.6	118.9	102.0	85.0	73.6	51.0	25.5	0.00
I-VDF 250	283.2	260.5	235.1	212.4	186.9	164.3	147.3	107.6	36.8	0.00
I-VDF 375	849.6	764.6	708.0	651.4	594.7	509.8	453.1	311.5	85.0	0.00
I-VDF 500	1699.2	1472.6	1274.4	1161.1	1076.2	991.2	793.0	538.1	141.6	0.00
I-VDF 750	3398.4	2803.7	2350.6	2095.7	1755.8	1444.3	1302.7	962.9	254.9	0.00

Model #	Metric - Evacuation Time (seconds) based on 1 liter volume with VDF set at 846 mbar									
	0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	711 mbar	813 mbar	846 mbar
I-VDF 100	0.00	0.1	0.3	0.5	0.7	1.0	1.4	1.9	3.0	3.7
I-VDF 150	0.00	0.1	0.2	0.4	0.5	0.8	1.1	1.6	2.7	3.4
I-VDF 200	0.00	0.0	0.1	0.1	0.2	0.3	0.5	0.7	1.1	1.3
I-VDF 250	0.00	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.6	0.8
I-VDF 375	0.00	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5
I-VDF 500	0.00	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
I-VDF 750	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2

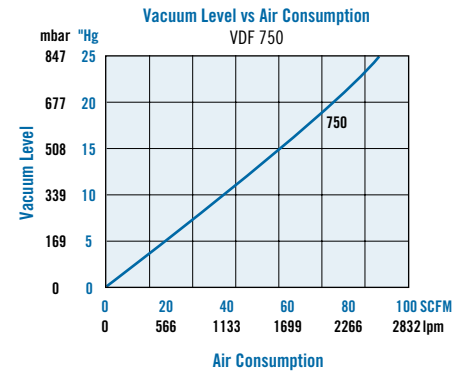
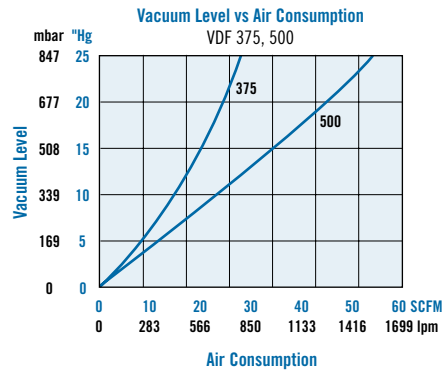
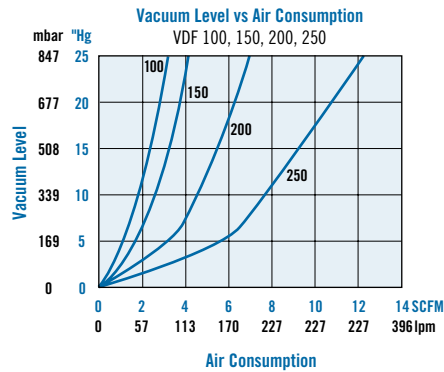
**Note 1:** Evacuation speed is linear with volume i.e. a two cu. ft. volume will take twice as long as a one cu ft volume to evacuate.

**Note 2:** Performance Charts represent average performance data. For reference only.

## VDF Series – Vacuum Flow vs. Vacuum Level



## VDF Series – Vacuum Level vs. Air Consumption



**Note:** The graphs were generated by presetting the pumps to their maximum vacuum level.

### VDF Series – Noise Levels at 80 PSI

Model #	Silencer Options				
	Silencer #	With Silencer		Without Silencer	
		Open Flow	Sealed Vacuum	Open Flow	Sealed Vacuum
VDF 100	ST4	70db	68db	88db	76db
VDF 150	ST4	74db	68db	88db	90db
VDF 200	ST4	78db	80db	86db	100db
VDF 200	ST4A	76db	80db	86db	100db
VDF 250	ST4A	82db	80db	90db	100db
VDF 250	ST4A2	84db	82db	90db	100db
VDF 375	ST8B	88db	82db	102db	104db
VDF 500	ST12C	82db	78db	96db	100db
VDF 750	ST16C	98db	88db	112db	108db

**Note:** Performance Charts represent average performance data. For reference only.