

Performance Data for Max Series Pumps & Cartridges

For Pump Models: VP80, VP80BV, VP8X, VP8XBV, VP8XV, VP80-AS, VP80-MP, VP80BV-MP, VP90, VP90-AS, VP90-MP and Manifolds

L-Series Venturis – Low Vacuum Applications

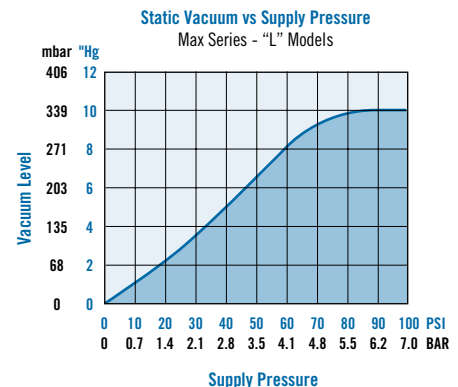
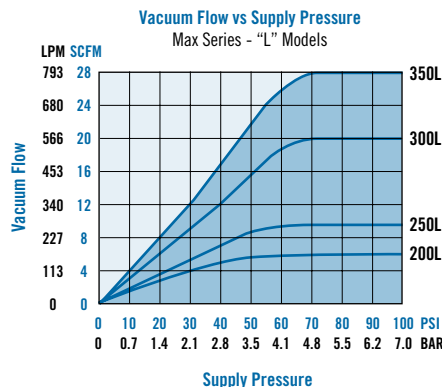
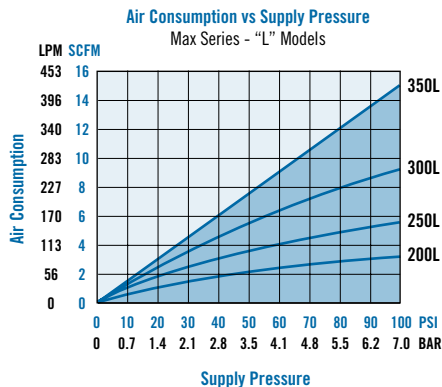
L is for “Low” vacuum levels up to 10”Hg [339 mbar] for applications handling delicate parts, thin walled materials and for process control.

Model #	Air Consumption SCFM	Imperial – Vacuum Flow (SCFM) vs. Vacuum Level (“Hg)				
		0”Hg	3”Hg	6”Hg	9”Hg	10”Hg
200L	2.80	6.00	5.80	4.30	1.70	0.00
250L	4.80	9.50	7.90	5.70	2.20	0.00
300L	7.80	20.00	14.00	9.50	3.50	0.00
350L	12.50	28.00	18.00	12.30	4.50	0.00
Model #		Evacuation Time in Seconds based on 1 Cubic Foot Volume/”Hg				
		0”Hg	3”Hg	6”Hg	9”Hg	10”Hg
200L		0.00	0.77	2.05	4.62	13.34
250L		0.00	0.52	1.28	3.08	7.95
300L		0.00	0.26	0.77	1.80	4.10
350L		0.00	0.00	0.52	1.28	2.82

Model #	Air Consumption L/min	Metric – Vacuum Flow (L/min) vs. Vacuum Level (mbar)				
		0 mbar	102 mbar	203 mbar	305 mbar	339 mbar
200L	79.3	169.9	164.2	121.8	48.1	0.0
250L	135.9	269.0	223.7	161.4	62.3	0.0
300L	220.9	566.3	396.4	269.0	99.1	0.0
350L	354.0	792.9	509.7	348.3	127.4	0.0
Model #		Evacuation Time in Seconds based on 1 Liter Volume/mbar				
		0 mbar	102 mbar	203 mbar	305 mbar	339 mbar
200L		0.0	0.0	0.1	0.2	0.5
250L		0.0	0.0	0.0	0.1	0.3
300L		0.0	0.0	0.0	0.1	0.1
350L		0.0	0.0	0.0	0.0	0.1

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5 bar]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Note 2: Evacuation speed is linear with volume. A 2 cu. ft. volume will take twice as long to evacuate as a 1 cu. ft. volume.



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

Performance Data for Max Series Pumps & Cartridges

For Pump Models: VP80, VP80BV, VP8X, VP8XBV, VP8XV, VP80-AS, VP80-MP, VP80BV-MP, VP90, VP90-AS, VP90-MP, VP92 and Manifolds

M-Series Venturis – Medium Vacuum Applications

M is for “Medium” vacuum levels up to 20”Hg [667 mbar] for applications involving porous materials (cardboard, wood, masonry, baked goods, textiles)

*NOTE: VP92 Performance Levels: 200M, 200H, and 250M only.

Model #	Air Consumption SCFM	Imperial – Vacuum Flow (SCFM) vs. Vacuum Level (“Hg)							
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	20”Hg
200M	4.80	6.00	5.30	4.90	4.00	3.50	2.50	1.10	0.00
250M	7.80	9.50	9.20	8.30	7.00	4.70	3.40	2.20	0.00
300M	12.50	20.00	19.00	16.30	13.80	8.10	5.50	3.30	0.00
350M	22.00	28.00	24.00	19.40	16.80	14.50	11.20	4.80	0.00

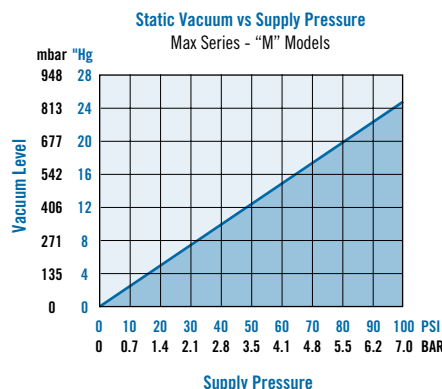
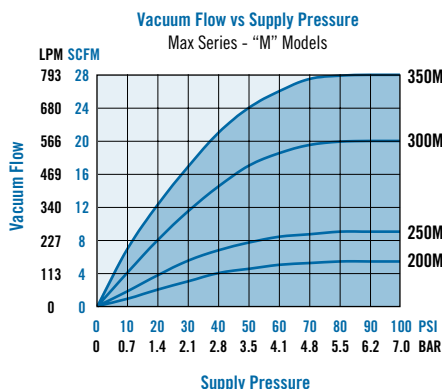
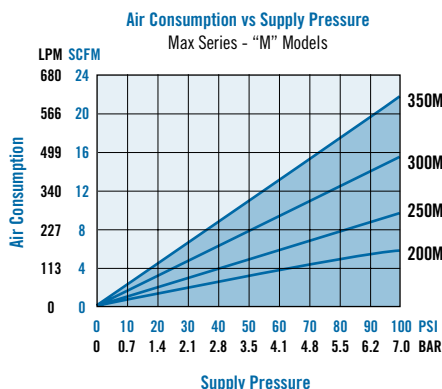
Model #	Air Consumption SCFM	Evacuation Time in Seconds based on 1 Cubic Foot Volume/”Hg							
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	20”Hg
200M	4.80	0.00	0.75	1.90	3.20	5.30	8.70	17.10	42.60
250M	7.80	0.00	0.45	1.10	2.40	3.80	6.00	9.70	15.40
300M	12.50	0.00	0.00	0.00	1.10	1.80	2.70	4.60	8.70
350M	22.00	0.00	0.00	0.00	1.00	1.50	2.10	4.30	8.40

Model #	Air Consumption L/min	Metric – Vacuum Flow (L/min) vs. Vacuum Level (mbar)							
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	677 mbar
200M	135.9	169.9	150.1	138.8	113.3	99.1	70.8	31.1	0.0
250M	220.9	269.0	260.5	235.0	198.2	133.1	96.3	62.3	0.0
300M	354.0	566.3	538.0	461.6	390.8	229.4	155.7	93.4	0.0
350M	623.0	792.9	679.6	549.3	475.7	410.6	317.1	135.9	0.0

Model #	Air Consumption L/min	Evacuation Time in Seconds based on 1 Liter Volume/mbar							
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	677 mbar
200M	135.9	0.0	0.0	0.1	0.1	0.2	0.3	0.6	1.5
250M	220.9	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5
300M	354.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3
350M	623.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5 bar]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Note 2: Evacuation speed is linear with volume. A 2 cu. ft. volume will take twice as long to evacuate as a 1 cu. ft. volume.



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

Performance Data for Max Series Pumps & Cartridges

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H-Series Venturis – High Vacuum Applications

H is for “High” vacuum levels up to 28”Hg [948mbar] for applications involving non-porous materials (steel, plastic, glass, etc.) The high vacuum level provides high vacuum force for lifting heavy materials and holding them securely.

*NOTE: VP92 Performance Levels: 200M, 200H, and 250M only.

Model #	Air Consumption SCFM	Imperial – Vacuum Flow (SCFM) vs. Vacuum Level (“Hg)										
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	21”Hg	24”Hg	27”Hg	28”Hg
200H	7.80	5.40	4.70	3.85	3.30	3.00	2.60	2.10	1.60	1.20	0.60	0.00
250H	12.50	9.00	8.50	7.85	7.00	6.50	5.30	3.90	2.50	1.80	0.90	0.00
300H	22.00	20.00	17.00	14.00	12.70	12.00	10.00	7.40	4.90	2.70	1.30	0.00
350H	28.00	28.00	22.00	18.70	15.90	14.50	11.80	8.10	5.70	4.50	2.25	0.00

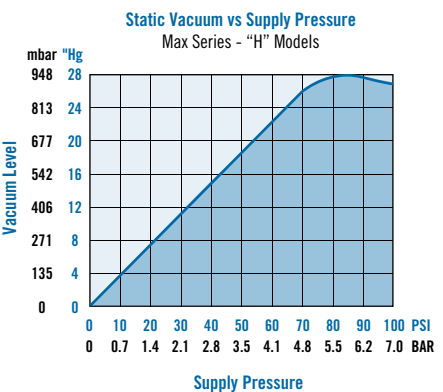
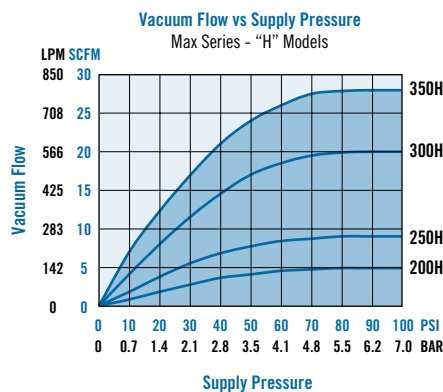
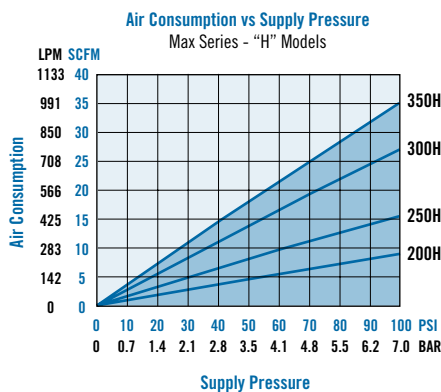
Model #		Evacuation Time in Seconds based on 1 Cubic Foot Volume/”Hg										
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	21”Hg	24”Hg	27”Hg	28”Hg
200H		0.00	1.20	2.10	3.40	5.20	7.70	11.50	20.00	33.50	62.60	98.10
250H		0.00	0.75	1.30	2.20	3.50	5.60	9.10	17.40	30.10	56.00	76.00
300H		0.00	0.00	0.80	1.20	2.00	2.80	3.90	5.90	11.10	32.70	60.00
350H		0.00	0.00	0.00	1.20	1.90	2.30	3.40	5.30	8.80	26.00	44.00

Model #	Air Consumption L/min	Metric – Vacuum Flow (L/min) vs. Vacuum Level (mbar)										
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	711 mbar	814 mbar	914 mbar	948 mbar
200H	220.9	152.9	133.1	109.0	93.4	85.0	73.6	59.5	45.3	34.0	17.0	0.0
250H	354.0	254.9	240.7	222.3	198.2	184.1	150.1	110.4	70.8	51.0	25.5	0.0
300H	623.0	566.3	481.4	396.4	359.6	339.8	238.2	209.5	138.8	76.5	36.8	0.0
350H	792.9	792.9	623.0	529.5	450.2	410.6	334.1	229.4	161.4	127.4	63.7	0.0

Model #		Evacuation Time in Seconds based on 1 Liter Volume/mbar										
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	711 mbar	814 mbar	914 mbar	948 mbar
200H		0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.7	1.2	2.2	3.5
250H		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.6	1.1	2.0	2.7
300H		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	1.2	2.1
350H		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.9	1.6

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5 bar]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Note 2: Evacuation speed is linear with volume. A 2 cu. ft. volume will take twice as long to evacuate as a 1 cu. ft. volume.



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