

Performance Data for Min Series Cartridges

M-Series Cartridges for Medium Vacuum Applications

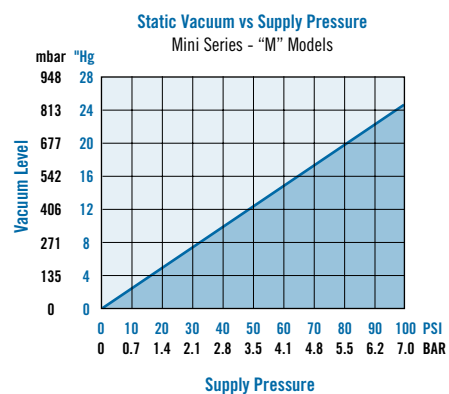
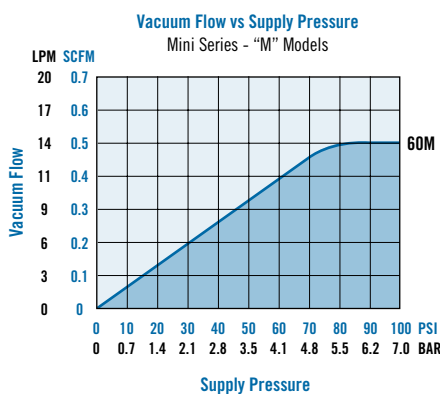
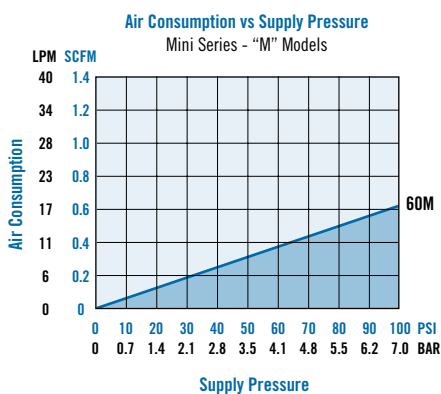
M is for “Medium” vacuum levels up to 20”Hg [677mbar] for applications involving porous materials (cardboard, wood, masonry, baked goods, textiles)

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
CM60M	0.50	0.50	0.40	0.30	0.22	0.15	0.08	0.03	0.00
		Evacuation Time in Seconds based on 1 Cu. Ft. Volume/”Hg							
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	20”Hg
		0.00	12.50	25.10	43.90	68.60	99.30	153.70	227.00

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	677mbar
CM60M	14.2	14.2	11.3	8.5	6.2	4.2	2.3	0.8	0.0
		Evacuation Time in Seconds based on 1 Liter Volume / mbar							
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508 mbar	609 mbar	677mbar
		0.0	0.4	0.9	1.6	2.4	3.5	5.4	8.0

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5BAR]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4 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 Min Series Cartridges

H-Series Cartridges for High Vacuum Applications

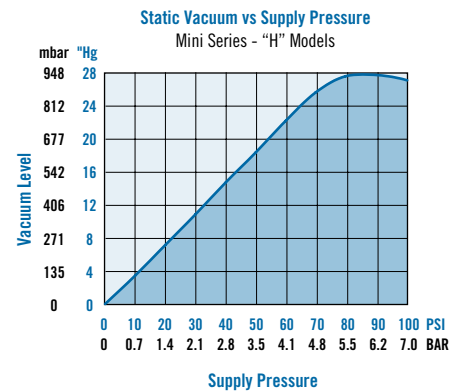
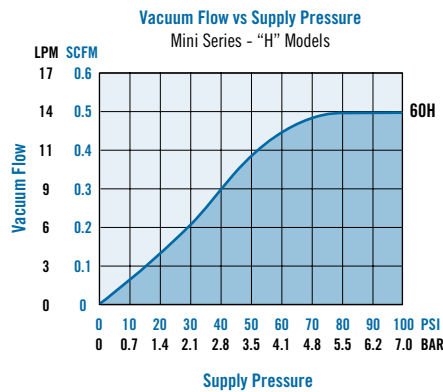
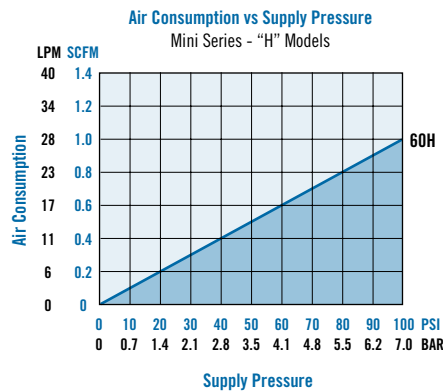
H is for “High” vacuum levels up to 28”Hg [948mbar] for applications involving non-porous materials (steel, plastic, glass, etc.). The high vacuum level provides high vacuum force for lifting heavy materials and holding them securely.

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
CM60H	0.80	0.50	0.38	0.32	0.30	0.27	0.23	0.20	0.13	0.05	0.02	0.00
		Evacuation Time in Seconds based on 1 Cu. Ft. Volume/”Hg										
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	21”Hg	24”Hg	27”Hg	28”Hg
		0.00	15.00	29.80	50.60	74.50	102.80	135.90	183.20	245.90	410.20	790.80

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	813 mbar	914 mbar	948 mbar
CM60H	22.7	14.2	10.8	9.1	8.5	7.6	6.5	5.7	3.7	1.4	0.6	0.0
		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	813 mbar	914 mbar	948 mbar
		0.00	0.5	1.1	1.8	2.6	3.6	4.8	6.5	8.7	14.5	27.9

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5BAR]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4 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 Mid Series Push-in, Threaded and RTM Cartridges

For Cartridge Models: CXXX, CXXX-TH and CXXX-RTM

L-Series Cartridges for Low Vacuum Applications

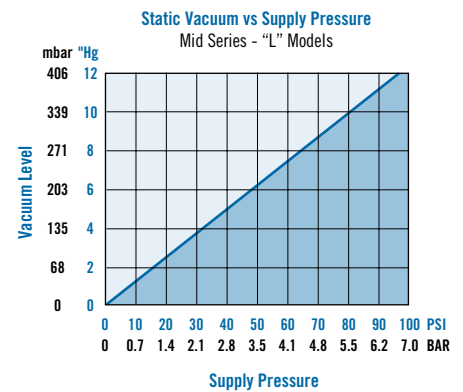
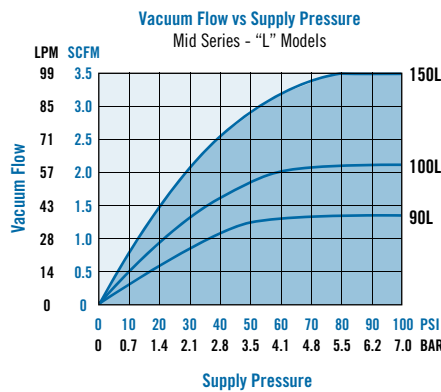
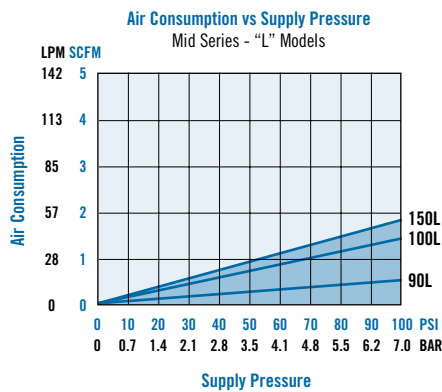
L is for “Low” vacuum levels up to 10”Hg [339mbar] for applications handling delicate parts, thin walled materials and for process control.

Model #	Air Consumption SCFM	Imperial – Vacuum Flow (SCFM) vs. Vacuum Level (“Hg)				
		0” Hg	3” Hg	6” Hg	9” Hg	10” Hg
90L	0.50	1.30	1.10	0.70	0.20	0.00
100L	1.40	2.10	1.60	1.10	0.50	0.00
150L	1.80	3.50	2.50	1.90	0.70	0.00
Model #		Evacuation Time in Seconds based on 1 Cubic Foot Volume/”Hg				
		0” Hg	3” Hg	6” Hg	9” Hg	10” Hg
90L		0.00	3.26	7.93	18.65	39.63
100L		0.00	2.33	4.66	10.88	24.0
150L		0.00	1.54	4.36	10.77	22.83

Model #	Air Consumption L/min	Metric – Vacuum Flow (L/min) vs. Vacuum Level (mbar)				
		0 mbar	102 mbar	203 mbar	305 mbar	339 mbar
I-90L	14.2	36.8	31.1	19.8	5.7	0.0
I-100L	39.6	59.5	45.3	31.1	14.2	0.0
I-C150L	51.0	99.1	70.8	53.8	19.8	0.0
Model #		Evacuation Time in Seconds based on 1 Liter Volume/mbar				
		0 mbar	102 mbar	203 mbar	305 mbar	339 mbar
I-90L		0.0	0.1	0.3	0.7	1.4
I-100L		0.0	0.1	0.2	0.4	0.9
I-150L		0.0	0.1	0.2	0.4	0.8

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5BAR]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4 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 Mid Series Push-in, Threaded and RTM Cartridges

For Cartridge Models: CXXX, CXXX-TH and CXXX-RTM

M-Series Cartridges for Medium Vacuum Applications

M is for “Medium” vacuum levels up to 20”Hg [677mbar] for applications involving porous materials (cardboard, wood, masonry, baked goods, textiles)

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
C60M	0.50	0.50	0.40	0.30	0.22	0.15	0.08	0.03	0.00
C90M	1.40	1.40	1.25	1.20	1.05	0.85	0.65	0.25	0.00
C100M	1.80	2.10	2.00	1.85	1.75	1.60	1.25	0.80	0.00
C150M	2.80	3.50	3.20	2.95	2.75	2.50	1.80	0.95	0.00

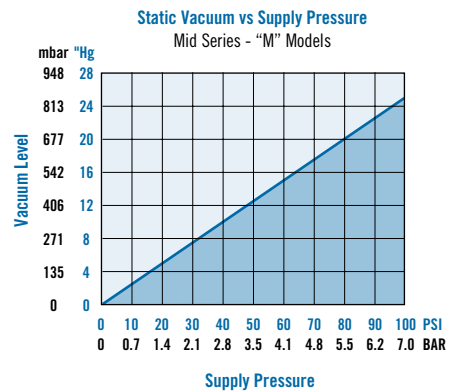
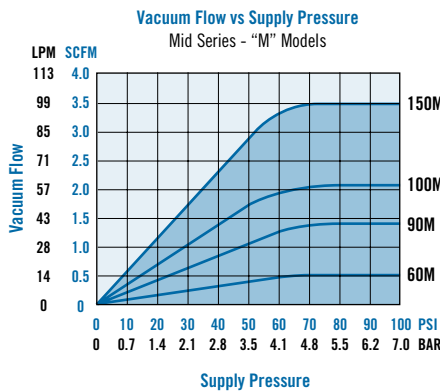
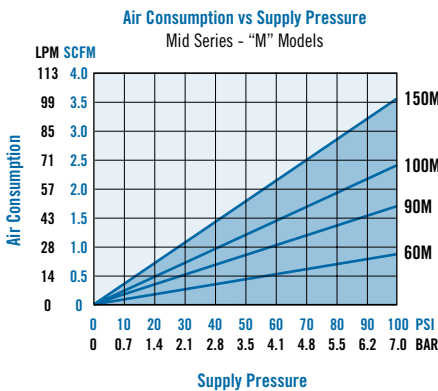
Model #	Air Consumption SCFM	Evacuation Time in Seconds based on 1 Cubic Foot Volume/”Hg							
		0”Hg	3”Hg	6”Hg	9”Hg	12”Hg	15”Hg	18”Hg	20”Hg
C60M	0.50	0.00	12.50	25.10	43.90	68.60	99.30	153.70	227.00
C90M	1.40	0.00	3.75	7.20	12.40	19.10	29.90	52.00	104.00
C100M	1.80	0.00	2.65	5.80	9.90	16.20	22.90	36.20	56.60
C150M	2.80	0.00	1.35	3.20	5.20	7.70	11.80	23.40	52.00

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	677 mbar
I-60M	14.2	14.2	11.3	8.5	6.2	4.2	2.3	0.8	0.0
I-90M	39.6	39.6	35.4	34.0	29.7	24.1	18.4	7.1	0.0
I-100M	51.0	59.5	56.6	52.4	49.6	45.3	35.4	22.7	0.0
I-150M	79.3	99.1	90.6	83.5	77.9	70.8	51.0	26.9	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
I-60M	14.2	0.0	0.4	0.9	1.6	2.4	3.5	5.4	8.0
I-90M	39.6	0.0	0.1	0.23	0.4	0.7	1.1	1.8	3.7
I-100M	51.0	0.0	0.1	0.2	0.3	0.6	0.8	1.3	2.0
I-150M	79.3	0.0	0.0	0.1	0.2	0.3	0.4	0.8	1.8

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5BAR]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4 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 Mid Series Push-in, Threaded and RTM cartridges

For Cartridge Models: CXXX, CXXX-TH and CXXX-RTM

H-Series Cartridges for High Vacuum Applications

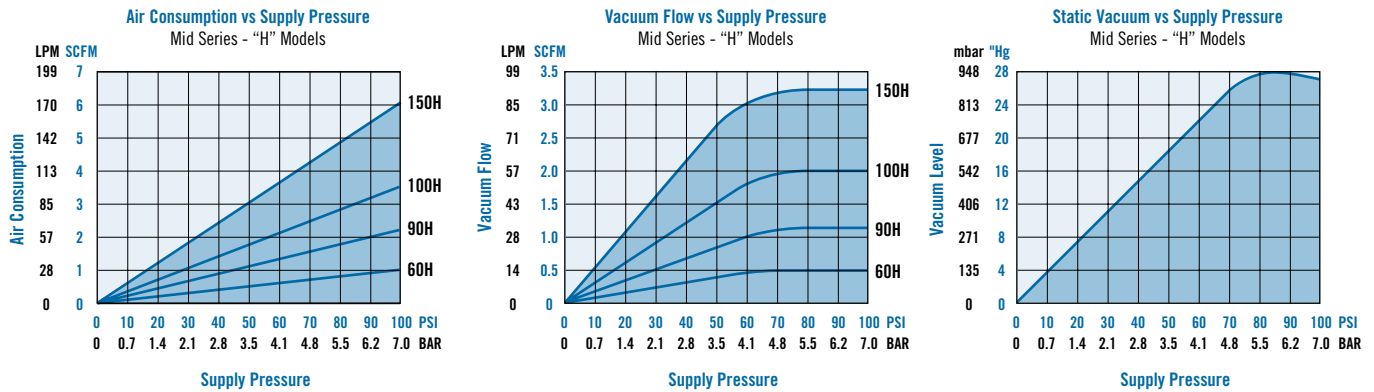
H is for “High” vacuum levels up to 28”Hg [948mbar] for applications involving non-porous materials (steel, plastic, glass, etc.). The high vacuum level provides high vacuum force for lifting heavy materials and holding them securely.

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
60H	0.80	0.50	0.38	0.32	0.30	0.27	0.23	0.20	0.13	0.05	0.02	0.00
90H	1.80	1.20	1.00	0.95	0.90	0.85	0.75	0.70	0.52	0.47	0.20	0.00
100H	2.80	2.00	1.85	1.75	1.57	1.40	1.25	1.05	0.84	0.70	0.35	0.00
150H	4.80	3.20	2.80	2.50	2.30	2.00	1.60	1.40	1.20	0.80	0.50	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
60H		0.00	15.00	29.80	50.60	74.50	102.80	135.90	183.20	245.90	410.20	790.80
90H		0.00	6.50	12.30	18.90	32.50	47.00	65.40	92.20	130.00	222.20	281.30
100H		0.00	2.70	6.50	11.20	17.50	25.80	38.40	55.20	79.20	166.70	251.80
150H		0.00	2.30	3.80	6.50	10.20	14.20	21.30	44.90	55.00	81.00	125.00

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	813 mbar	914 mbar	948 mbar
I-60H	22.7	14.2	10.8	9.1	8.5	7.6	6.5	5.7	3.7	1.4	0.6	0.0
I-90H	51.0	34.0	28.3	26.9	25.5	24.1	21.2	19.8	14.7	13.3	5.7	0.0
I-100H	79.3	56.6	52.4	49.6	44.5	39.6	35.4	29.7	23.8	19.8	9.9	0.0
I-150H	135.9	90.6	79.3	70.8	65.1	56.6	45.3	39.6	34.0	22.7	14.6	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	813 mbar	914 mbar	948 mbar
I-60H		0.0	0.5	1.1	1.8	2.6	3.6	4.8	6.5	8.7	14.5	27.9
I-90H		0.0	0.2	0.4	0.7	1.1	1.7	2.3	3.3	4.6	7.8	9.9
I-100H		0.0	0.1	0.2	0.4	0.6	0.9	1.4	1.9	2.8	5.9	8.9
I-150H		0.0	0.1	0.1	0.2	0.3	0.5	0.8	1.6	1.9	2.9	4.4

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5BAR]. Pumps can be factory modified to run at other operating pressures i.e. 60 PSI [4 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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