

HVP Pump Standard Specifications:

Pump Material:	Anodized Aluminum (For silencer material, see Silencer section – see page 13.5)
Cartridge Material:	Aluminum, Brass, Buna-N (Other materials available, see page 1.6)
Medium:	Filtered (50 Micron) unlubricated, noncorrosive dry gases
Operating Temperature:	-30° to ~250° F [-34° to ~121°C]
Operating Pressure:	80 PSI [5.5 bar] standard or (HVP-100 only) 60 PSI [4.1 bar] – Consult Factory for other operating pressures

HVP Pump Installation Requirements:

Vacuum Line & Supply Line – HVP-100/200:	3/8" O.D. [10mm] tube recommended
Vacuum Line Filtration – HVP-100/200:	Typically filters are not required; if desired Vaccon recommends – VF250. See page 13.12
Vacuum Line & Supply Line – HVP-300:	1/2" O.D. [12mm] tube recommended
Vacuum Line Filtration – HVP-300:	Typically filters are not required; if desired Vaccon recommends – VF375. See page 13.12
Mounting Holes:	HVP-100 = 4-40 [M3], HVP-200/300 = #10-32 [M5] screws

HVP Series - Performance Data

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	29.5"Hg
HVP-100	4.90	1.30	1.20	1.10	1.00	0.90	0.90	0.90	0.80	0.60	0.30	0.00
HVP-200	8.60	3.45	3.25	3.05	2.75	2.45	2.05	1.90	1.60	1.30	0.90	0.00
HVP-300	22.00	6.00	5.10	4.70	4.40	4.10	3.60	3.00	2.60	1.80	0.90	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	29.5"Hg
HVP-100		0.00	6.50	12.30	18.90	32.50	40.00	52.50	72.50	98.00	135.50	281.30
HVP-200		0.00	2.30	3.80	6.50	10.20	14.10	20.00	29.50	44.00	67.50	125.00
HVP-300		0.00	1.20	2.10	3.40	5.20	7.70	11.50	16.30	24.00	39.50	98.10

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5 bar]. The HVP-100 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.

Model #	Air Consumption L/min	Metric – Vacuum Flow (L/min) vs. Vacuum Level (mbar)										
		0 mbar	102 mbar	203 mbar	305 mbar	406 mbar	508mbar	609 mbar	711 mbar	813 mbar	914 mbar	999 mbar
I-HVP-100	138.8	36.8	34.0	31.1	28.3	25.5	25.5	25.5	22.7	17.0	8.5	0.0
I-HVP-200	243.5	97.7	92.0	86.4	77.9	69.4	58.0	53.8	45.3	36.8	25.5	0.0
I-HVP-300	623.0	169.9	144.4	133.1	124.6	116.1	101.9	85.0	73.6	51.0	25.5	0.0
Model #		Evacuation Time in Seconds based on 1 Liter Volume/mbar										
		0 mbar	102 mbar	203 mbar	305 mbar	339 mbar	508mbar	609 mbar	711 mbar	813 mbar	914 mbar	999 mbar
I-HVP-100		0.00	0.2	0.4	0.7	1.1	1.4	1.9	2.6	3.5	4.8	9.9
I-HVP-200		0.00	0.1	0.1	0.2	0.4	0.5	0.7	1.0	1.6	2.4	4.4
I-HVP-300		0.00	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.4	3.5

Note 1: Standard operating pressure for Vaccon pumps is 80 PSI [5.5 bar]. The HVP-100 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.