High Vacuum Venturi Pump with Silencer

78165-30

The high vacuum level and compact size of the 78165-30 pump allows you to incorporate smaller and more efficient components in your design. Often used to replace expensive, noisy, heat generating, electric pumps, these pumps are quiet and maintenance free, ideal for small shops, labs and recharging HVAC systems.

Please note: Vacuum Level = The magnitude of suction created by the vacuum pump. Vacuum level is affected by elevation and barometric pressure.

For each 1,000 feet of elevation, the vacuum level that the pump can achieve decreases by approximately 1"Hg [33.9mbar].

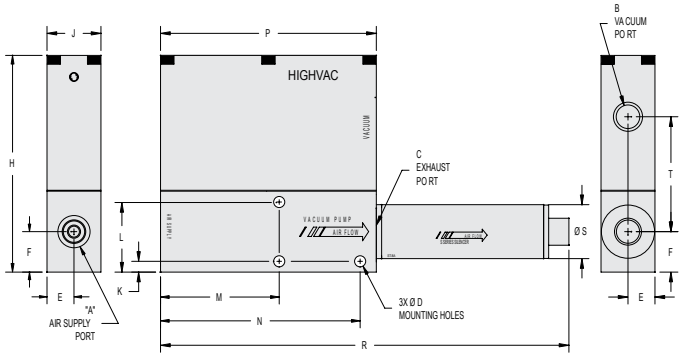
Ideal Applications:

- **Process control**
- **Vessel evacuation**
- **HVAC applications**
- **Degassing**

Specifications	
Weight	9oz [255g]
Noise Level	71 dB

Features/Benefits:

- **High performance**—powerful vacuum up to 29.5"Hg [999mbar]
- **Fast response time**—no delay due to long plumbing lines; mounts in-line and installs close to vacuum point
- **Efficient**—minimal air consumption
- **Compact**—lightweight and modular, easy to install
- **Safe operation**—no electricity needed at the pump
- **Reliable**—trouble-free operation:
  - No moving parts to wear
  - No flap valves to stick open
  - No maintenance
  - No downtime



Item #	Imperial Dimensions (in.)															
	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T
78165-30	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	0.38	0.38	2.28	0.75	0.09	0.67	1.78	N/A	3.20	5.06	0.75	1.28

Item #	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
78165-30	4.9	1.3	1.2	1.1	1.0	0.9	0.9	0.9	0.8	0.6	0.3	0.0
Item #		**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
78165-30		0.0	6.5	12.3	18.9	32.5	40.0	52.5	72.5	98.0	135.5	281.3

Item #	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
78165-30	138.8	36.8	34.0	31.1	28.3	25.5	25.5	25.5	22.7	17.0	8.5	0.0
Item #		**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
78165-30		0.0	0.2	0.4	0.7	1.1	1.4	1.9	2.6	3.5	4.8	9.9