



Vacuum Pumps America Inc.

Dry Scroll Vacuum Pumps H – Series

Horizontal Dry Scroll Vacuum Pumps



Features:

- Our Dry Scroll Vacuum Pumps are suitable for any application that needs dry running vacuum pump for clean applications.
- Supreme quality product by using high quality materials and excellent design. Chemically protected against corrosion by using Aluminum alloys.
- Excellent ultimate vacuum and pumping speed in its class.
- Low noise and low vibration.
- Exclusive Optional adjustable gas ballast valves available upon request depending on application.
- Pump versions in the range covering pumping speeds of 4, 8, 18, 36, 70m³/h.
- Universal Single-phase variant feature can work with 110V, 200V or 230V, 50/60Hz for continuous performance.
- World-wide Three-phase electronic-free motors available for radiation and high magnetic field applications at 200V, 230V, 380V, 415V, 460V and 575volt, 50/60hz.
-  ATEX at different voltages available for some VPA-SCH/Ex Dry Scroll Vacuum Pumps suitable for using them in Hazardous Area.
-  Explosion proof motors available at different voltages for some of our VPA-SCH/Ex Dry Scroll Vacuum Pumps make them suitable for using in Hazardous Area.
- Integrated gas ballast permits pumping condensable vapors.
- Compact and lightweight design permits simple integration into your new or existing vacuum system.
- Our easy maintenance design makes field maintenance easy for our customers.
- For more information and pricing, Please contact: sales@vpamerica.com or Call us @ 1-416-407-0350

Technical Specifications:



Model			VPA-SCH4	VPA-SCH8	VPA-SCH18	VPA-SCH36	VPA-SCH70
Displacement	50Hz	m ³ /h	3.6	7.2	15.5	31.3	59.8
		cfm	2.2	4.3	9.3	18.7	35.8
	60Hz	m ³ /h	4.3	8.6	18.3	37.4	71.6
		cfm	2.5	5.1	10.9	22.3	42.8
Ultimate Pressure with Gas Ballast Closed		mbar	$\leq 8.0 \times 10^{-2}$	$\leq 6.0 \times 10^{-2}$	$\leq 2.6 \times 10^{-2}$	$\leq 1.0 \times 10^{-2}$	$\leq 1.0 \times 10^{-2}$
		Torr	$\leq 6.0 \times 10^{-2}$	$\leq 4.0 \times 10^{-2}$	$\leq 1.9 \times 10^{-2}$	$\leq 7.5 \times 10^{-3}$	$\leq 7.5 \times 10^{-3}$
		psi	$\leq 1.2 \times 10^{-3}$	$\leq 9.0 \times 10^{-4}$	$\leq 3.8 \times 10^{-4}$	$\leq 1.4 \times 10^{-4}$	$\leq 1.4 \times 10^{-4}$
Noise Level		dB(A)	≤ 52	≤ 57	≤ 60	≤ 61	≤ 63
Leakage		mbar·l/s	1×10^{-7}				
Max. Inlet/Exhaust Pressure		MPa	0.1 / 0.13				
Ambient Operation Temp.		°C / °F	5°C to 40°C / 41°F to 104°F				
Cooling Type		Air cooled					
Inlet/Exhaust Flange			KF25/16	KF25/16	KF25/16	KF40/16	KF40/16×2
Motor 1 phase	Motor Power	kW	0.25	0.4	0.55	0.75	--
	Voltage	VAC	50 ~ 60Hz/110 ~ 115 or 200 ~ 230				--
	Speed	rpm	50Hz /1425; 60Hz /1725				--
	Connector		North America, Europe, UK/Ireland				
Motor 3 phase	Motor Power	kW	--	0.4	0.55	0.75	1.5
	Voltage	VAC	--	50 Hz/200 ~ 230 or 380 ~ 415 : 60 Hz 200 ~ 230 or 460			
	Speed	rpm	--	50Hz /1425; 60Hz /1725			
Dimensions	1 phase	mm	405×225×260	430×250×280	490×290×340	520×316×360	--
	3 phase	mm	--	430×250×280	495×290×340	505×316×360	580×360×400
Net Weight	1 phase	kg	15	18	27	31	--
	3 phase	kg	--	20	31	38	52
Gad Ballast		Available for all models					

Applications:



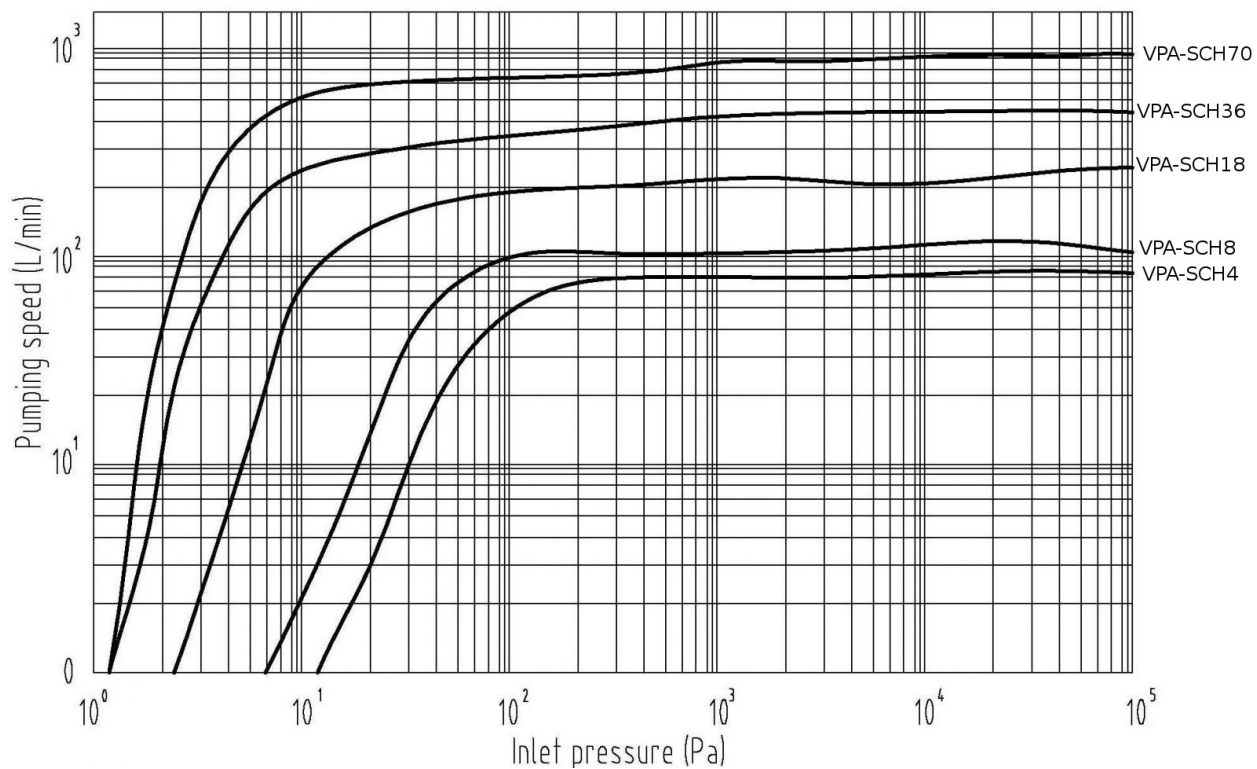
Freeze drying/gel dryer, Distillation/purification/filtration, Lithium ion battery process, Hydrogen fuel cell process, Capacitor exhaust, Oil vapor recovering, Cryopump regeneration, Coating PVD/CVD/PLD, LED, LCD, Laser tube, Vacuum oven, E-beam/Laser melting, Glove box, Load lock/transfer chambers, Helium Leak detection, Special gas recovery/recirculation, Molecular pump backing, Space environment animation, Surface analysis instruments, Spectroscopy/scanning electron microscopy, Autoclaves, Automotive, Backing pump for high vacuum pumps,

Backing for Turbomolecular Pumps, Brazing, Casting, Laboratories, Central Vacuum Systems  ,

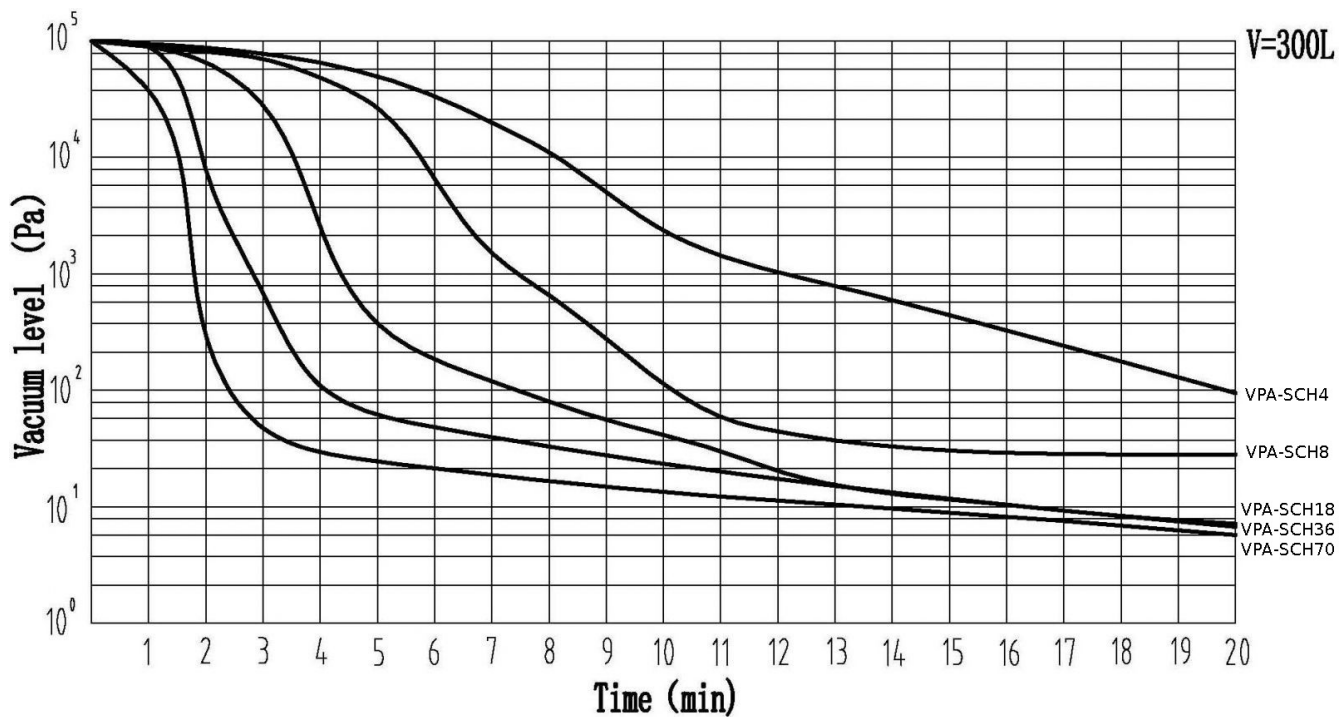
Debinderization, Degassers  , Degassing, Drying  , Drying Chambers, Evacuating of Refrigeration Systems, Evacuation of Process Chambers, Forming, Food Processing, Food Industry, Food Packaging, Fermentation, Heat Treatment, Laboratory, Leak Detection of dry systems, Light Bulb Manufacturing, Liquid Gas Storage, Metallurgy, Metals Processing, Packaging, PET Processing, Pharmaceutical Processes, Physical Vapour Deposition PVD Coating Systems, Physics Laboratories, Potting, Research & Development, Roll Coating, Crystal Growing, Vacuum Coating, Vacuum Furnaces, Vacuum Heat Treating, Vacuum Melting, Vacuum Metallizing, Vacuum Packaging, Vacuum Metallurgy and more.

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Performance Curves:



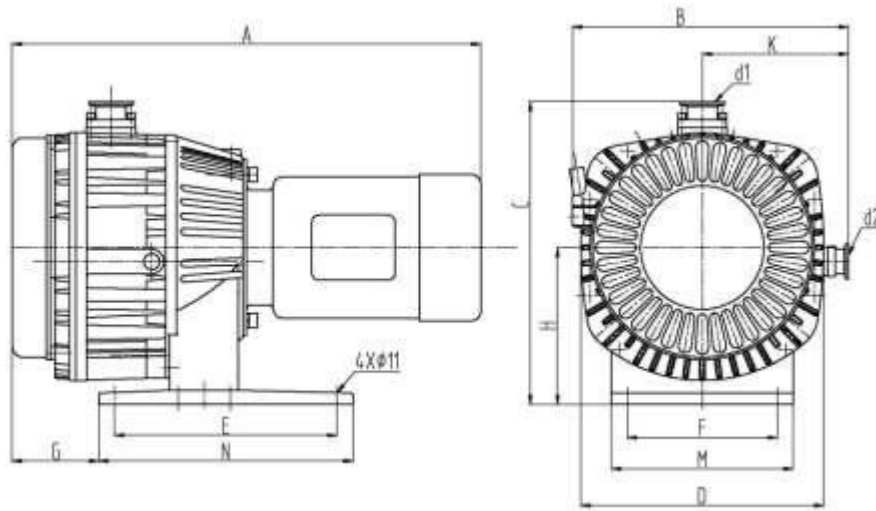
Pumping Speed Curves for VPA-SCH series Dry Scroll Vacuum Pumps



Evacuation Time for 300 liters vessel for VPA-SCH series Horizontal Dry Scroll Vacuum Pumps

Dimensions:

Model	A	B	C	D	E	F	G	H	M	N	K	d1	d2
VPA-SCH4	405	225	260	200	192	114	72	131	146	225	125	KF25	KF16
VPA-SCH8	430	250	280	220	214	129	86	130	155	250	135	KF25	KF16
VPA-SCH18	492	268	324	226	252	163	87	174	192	288	140	KF25	KF16
VPA-SCH36	530	312	343	275	252	170	115	178	206	288	165	KF40	KF16
VPA-SCH70	580	360	400	336	267	184	121	195	224	303	191	KF40	KF16×2



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