



Agilent VHS-4, VHS-6, VHS-10

Technical Specifications

	VHS-4	VHS-6	VHS-10
Previous model number	0183	0184	0185
Pumping speed*, l/s (operating range)			
Air	750	1,550	3,650
Helium & hydrogen	940	1,930	4,560
Pumping speed AVS 4.1 (1963)*	1,200	2,400	5,300
Maximum forepressure, Torr (mbar)			
No load	0.65 (0.86)	0.65 (0.85)	0.65 (0.85)
Full load	0.55 (0.73)	0.55 (0.72)	0.55 (0.72)
Maximum throughput, T-l/s (mbar-l/s) In operating range @ 1×10^{-2} Torr (1.3×10^{-2} mbar)*	1.5 (2.0) 2.5 (3.2)	2.4 (3.2) 3.5 (4.5)	6.3 (8.4) 7.5 (10.0)
Minimum recommended backing pump for maximum throughput, cfm (m ³ /hr)	10 (17)	17.0 (28.9)	30 (51)
Backstreaming rate at inlet flange mg/cm ² /min (standard cold cap)*	5×10^{-4}	5×10^{-4}	5×10^{-4}
Warmup time, minutes	10	10	15
Cooldown time, minutes with quick cool coil, where applicable	10	10	25
Fluid charge	300 cc	500 cc	1,000 cc
Electrical requirements	1 ph 50/60 Hz 120/208/240 V	1 ph 50/60 Hz 120/208/240 V	3 ph 50/60 Hz 208/240/380/480 V
Power, watts	1,45	2,2	4,4
Cooling water, U.S. gpm (l/hr) at 60-80 °F (15-26 °C)	0.15 (30)	0.25 (50)	0.40 (80)

*For descriptions of pumping speed and backstreaming measurements, please see page 34.



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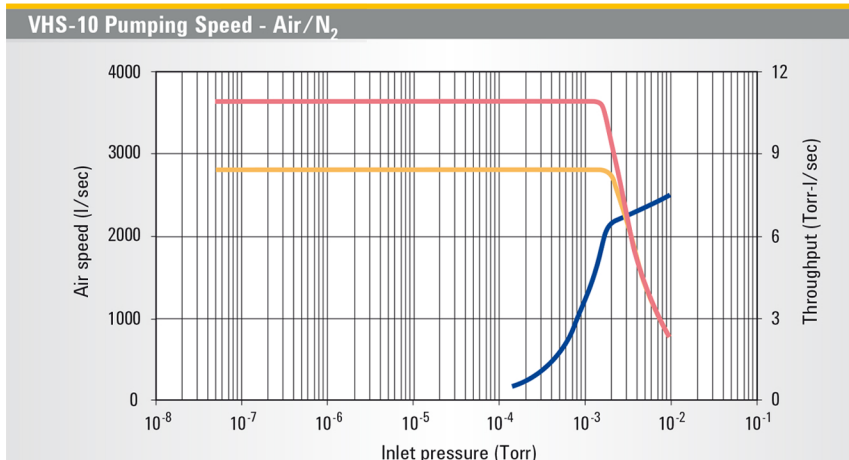
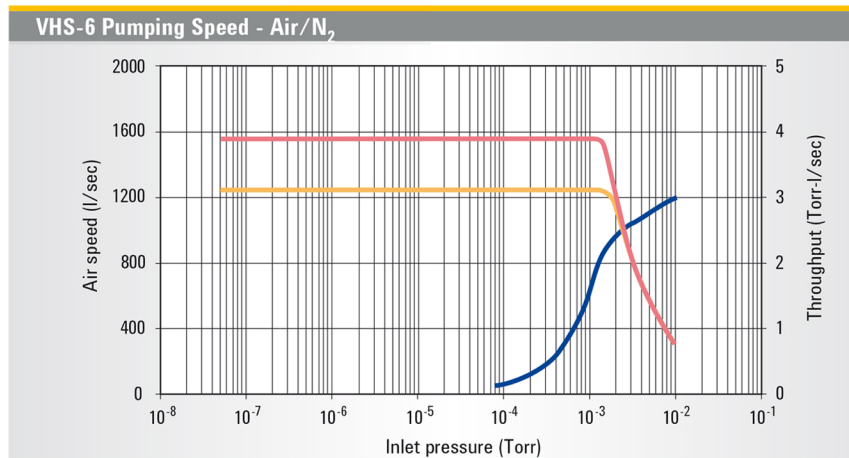
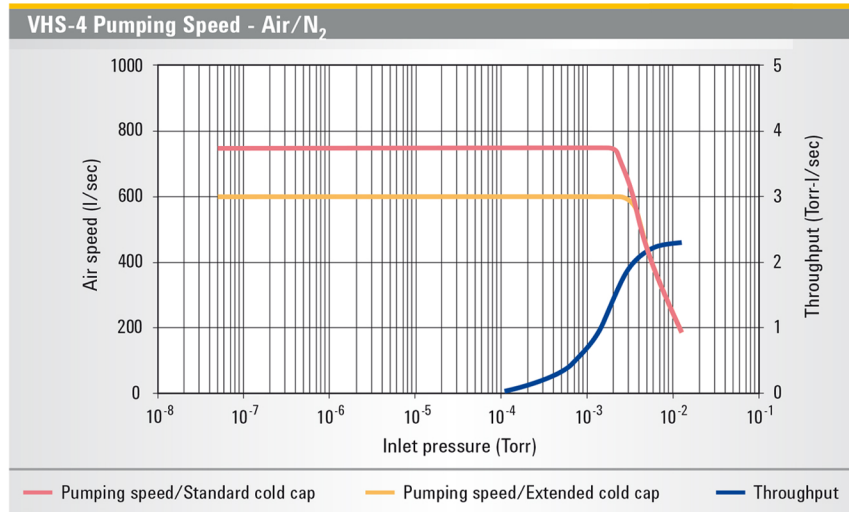
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Agilent VHS-4, VHS-6, VHS-10 Pumping Curves





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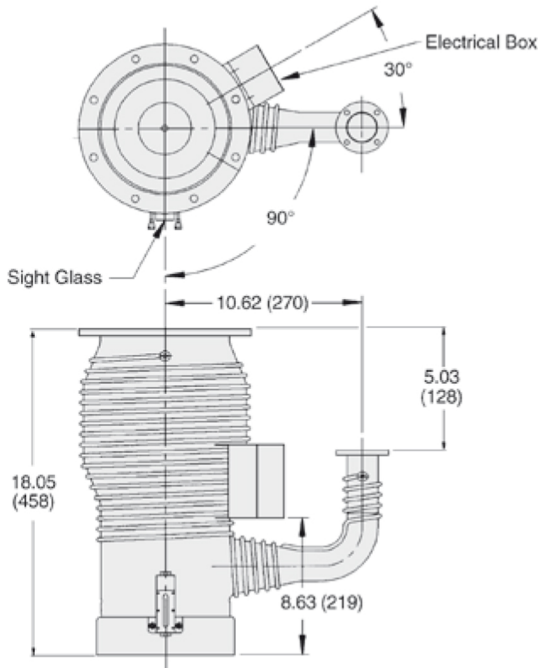
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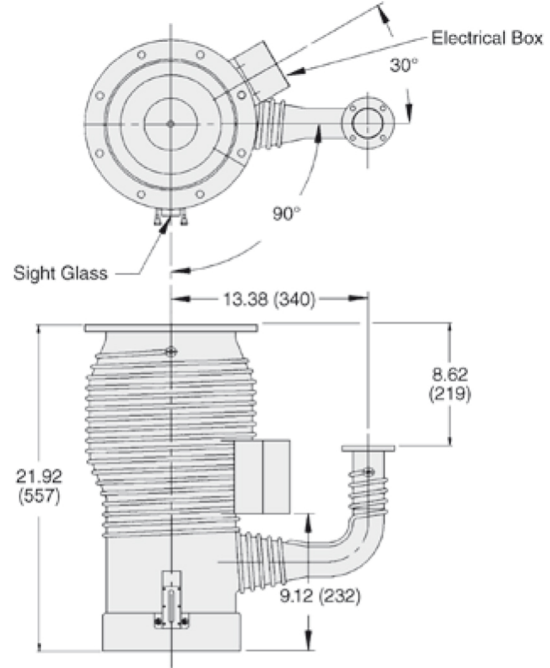
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Dimensions

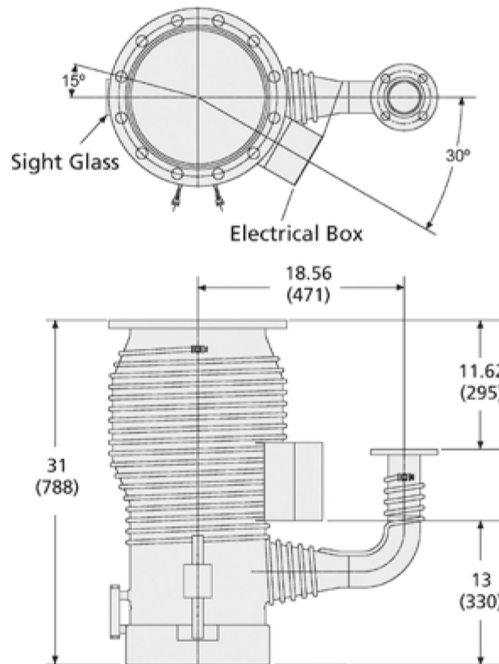
VHS-4



VHS-6



VHS-10



Dimensions: inches (millimeters)



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Features & Benefits

- low cost of ownership
- fully optimized jet
- highest throughput
- high pumping speeds
- low ultimate pressure
- long-term reliability
- fluid-level sight glass provides quick indication of fluid status
- fractionating jet purifies pumping fluid
- stainless steel pump body and jet
- high tolerable forepressure
- excellent backstreaming
- built for production volumes
- robust boiler design
- easy to maintain

Applications

- vacuum furnaces • metallizing • large area coating • molecular beams • thin film deposition • optical, electronic, protective coating

