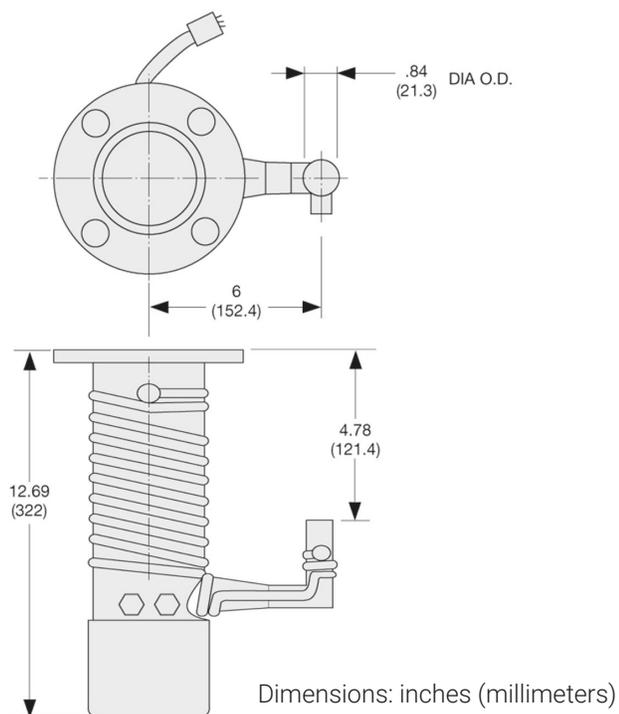




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## HS-2 Oil Diffusion Pump



[Download 3d drawings here.](#)

The Agilent HS-2 oil diffusion pump provides high throughput and high pumping speeds of 160 L/s for air and 200 L/s for He and H<sub>2</sub>. With its fully optimized vapor jet and robust boiler design, the pump will run without any maintenance for years. It is available with an ASA inlet flange and with 120 V or 240 V.

This diffusion pump is an excellent fit for instrumentation applications such as gas chromatography mass spectrometry (GC/MS), short path distillation systems, and centrifuges.



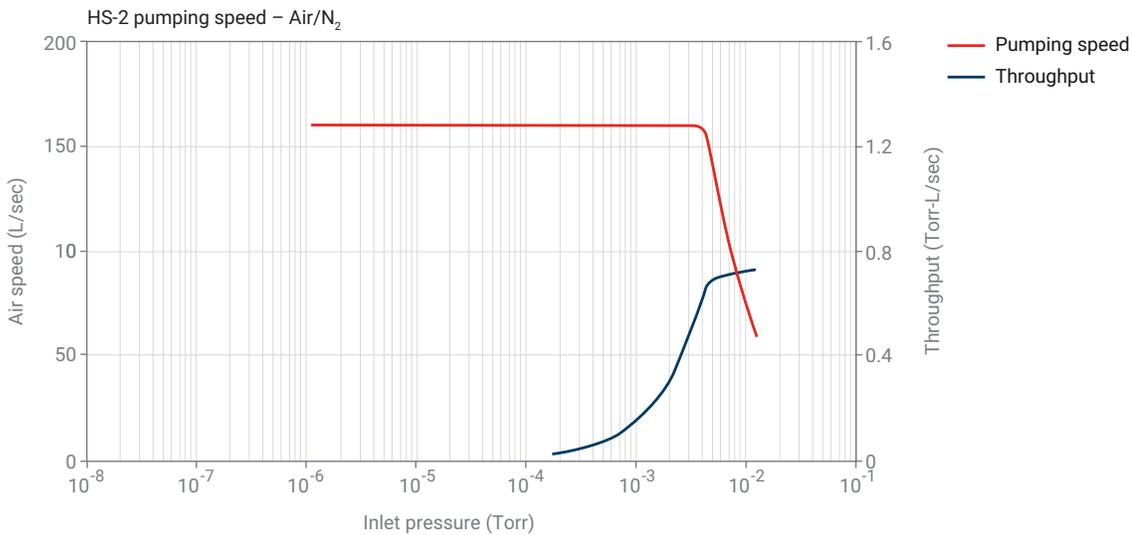
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## Technical specifications

Pumping Speed, Operating Range	160 L/s air, 200 L/s He and H <sub>2</sub>
Pumping Speed, AVS 4.1 (1963)	285 L/s air
Maximum Throughput	0.60 T-L/s (0.80 mbar-L/s) in operating range, 0.70 T-L/s (0.93 mbar-L/s) at 0.01 Torr
Operating Range	$3.7 \times 10^{-3}$ to $<5 \times 10^{-8}$ Torr ( $4.9 \times 10^{-3}$ to $<6.5 \times 10^{-8}$ mbar)
Maximum Forepressure	No load: 0.55 Torr (0.71 mbar) Full load: 0.40 Torr (0.52 mbar)
Recommended Backing Pump	$\geq 5$ cfm (8.5 m <sup>3</sup> /hr)
Backstreaming Rate, Standard Cold Cap	$<1 \times 10^{-3}$ mg/cm <sup>2</sup> /min
Warmup Time	15 minutes
Cooldown Time	10 minutes (with quick cool coil)
Fluid Charge	100 cc
Electrical Requirements	1 ph, 50/60 Hz, 120/240 VAC
Pump Power	450 watts
Cooling Water Requirements	0.1 gpm (20 L/hr) at 60 to 80 °F (15 to 26 °C)
Water Connections	$\frac{1}{8}$ in FPT
Recommended Holding Pump*	DS40M Rotary Vane Pump

\* Recommended holding pump sizes are based on estimates; assuming good vacuum practice in system design and operation. Results may vary from system to system.

Performance specifications based on tests done with DC704.



## Ordering information

Description	Weight kg (lb)	Part Number
<b>ASA</b>		
HS-2 with Standard Cold Cap, 120 V	20.0 (9.0)	82906301
HS-2 with Standard Cold Cap, 240 V	20.0 (9.0)	82906302
<b>Replacement Parts (One Heater Required Per Pump)</b>		
Santovac 5 Diffusion Pump Fluid, 500 cc	2.5 (1.1)	695405005
450 W, 120 V Heater	1.0 (0.5)	647302125
450 W, 240 V Heater	1.0 (0.5)	647302150
Heater Block (One Required Per Pump)	1.0 (0.5)	82920001
Heater Platen (One Required Per Pump)	1.0 (0.5)	82918301
Replacement O-Ring Kit, (Five Inlet Flange O-Rings)	1.0 (0.5)	K0377159

- Inlet flange: nominal 2 in. ASA flange with 6 in. od.
- Foreline: 0.84 in. diameter tube.

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you can chat live with a vacuum expert.



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