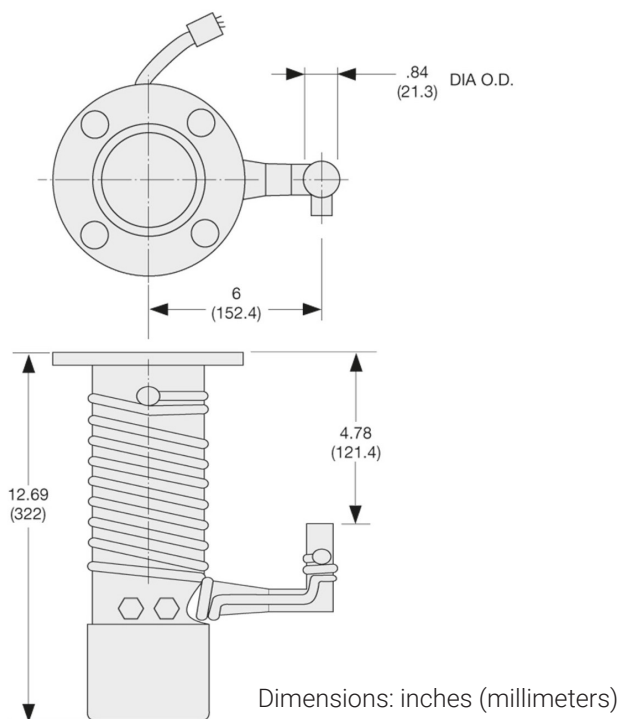


HS-2 Oil Diffusion Pump



[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 H₂. 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.

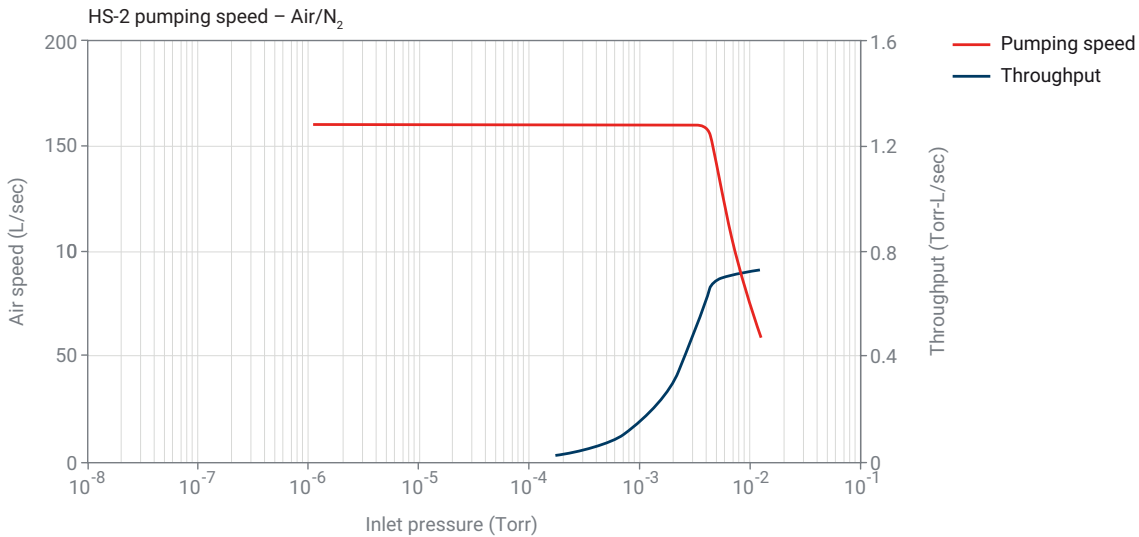
This diffusion pump is an excellent fit for instrumentation applications such as gas chromatography mass spectrometry (GC/MS), short path distillation systems, and centrifuges.

Technical specifications

Pumping Speed, Operating Range	160 L/s air, 200 L/s He and H ₂
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	3.7×10^{-3} to $< 5 \times 10^{-8}$ Torr (4.9×10^{-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	≥ 5 cfm (8.5 m ³ /hr)
Backstreaming Rate, Standard Cold Cap	$< 1 \times 10^{-3}$ mg/cm ² /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 (23 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
ASA		
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
Replacement Parts (One Heater Required Per Pump)		
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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