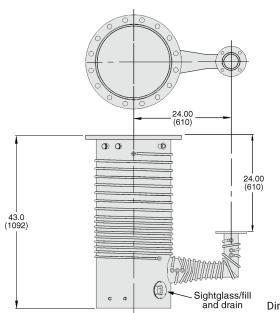


HS-16 Oil Diffusion Pump





Dimensions: inches (millimeters)



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Download 3d drawings here.

The Agilent HS-16 oil diffusion pump is a pump with high throughput and high pumping speed of 6,000 L/s. With its fully optimized vapor jet, robust boiler design, and thermal protection switches, the pump will run without any maintenance for many years. This pump includes a standard sight glass and fill and drain assembly, and is available with 16 in. ASA or DN 500 ISO-K inlet flange.

This diffusion pump is a perfect fit for industrial applications such as vacuum furnace, heat treatment, metallizing, and coating processes for optical lenses, electronics, and protective film layers.

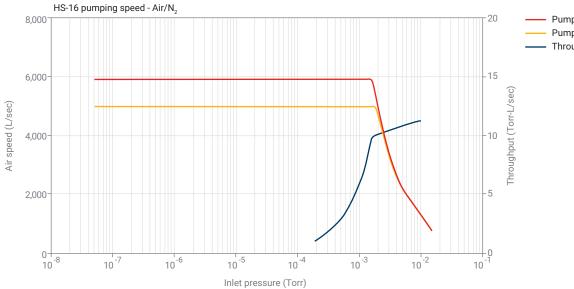
Technical specifications

6,000 L/s air, 7,500 L/s He and $\rm H_{2}$		
10,000 L/s air		
8,100 W – 9.5 T-L/s (12.7 mbar L/s) in operating range 13.5 T-L/s (18.0 mbar-L/s) at 0.01 Tor 9,600 W –12.0 T-L/s (16 mbar L/s) in operating range 11.5 T-L/s (15.3 mbar-L/s) at 0.01 Torr		
2×10^{-3} to <5 × 10 ⁻⁸ Torr at 9,600 W (1.3 × 10 ⁻³ to <6.5 × 10 ⁻⁸ mbar)		
No load: 0.65 Torr (0.85 mbar) Full load: 0.55 Torr (0.72 mbar)		
≥80 cfm (136 m³/hr)		
<1.5 × 10 ⁻³ mg/cm ² /min		
30 minutes		
48 minutes (30 minutes with optional quick cool coil)		
3 quarts (2.8 L)		
3 ph, 50/60 Hz, 240/415/480 VAC		
8,100/9,600 watts		
1.5 gpm (300 L/hr) at 60 to 80 °F (15 to 26 °C)		
¼ in. FPT Tee		
DC-704 or equivalent		
ISO 228 G 1/2 thread (with adapter M8x1 thread)		
DS202 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.



Pumping speed/Cold cap
 Pumping speed/Halo baffle
 Throughput



Ordering information

		Weight	Part N	umber
Description	Voltage	kg (lb)	Flange Type	
HS-16 Pump			ASA	ISO
HS-16 with Standard Cold Cap	240 V	218.0 (480.0)	79292308	L5921308
HS-16 with Halo Baffle	240 V	218.0 (480.0)	79292318	L5921318
HS-16 with Standard Cold Cap	415 V	218.0 (480.0)	79292326	L5921326
HS-16 with Halo Baffle	415 V	218.0 (480.0)	79292336	L5921336
HS-16 with Standard Cold Cap	480 V	218.0 (480.0)	79292309	L5921309
HS-16 with Halo Baffle	480 V	218.0 (480.0)	79292319	L5921319

Note: The HS-16 can be ordered with 9,600 W heaters by increasing the middle number of the 3-digit suffix by two; e.g. 79292328.

Contact information

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For more information, please contact your Agilent representative or visit www.agilent.com/chem/vacuum where you can chat live with a vacuum expert.



Water-Cooled Halo Baffle 9.0 (20.0) K0143316 Centering Ring for ISO Foreline Flange, 100K 0.5 (1.0) IC100SV Quick Cool Coil - Must Be Installed in the Factory Factory Special Adapter Kit, 1/4 FPT to ISO G 1/2 (qty 4) X3900-68009 Water Fittings Replacement Parts (Three Heaters Required Per Pump) 2700 W, 240 V/415 V with Leads 647316020 0.5 (1.0) 2700 W, 480 V with Leads 0.5 (1.0) 647316030 2700 W, 240 V/415 V no Leads - Used on Pumps 0.5 (1.0) 647316035 Built Before May 1990 2700 W, 480 V no Leads - Used on Pumps Built 0.5 (1.0) 647316045 Before May 1990 3200 W. 240 V/415 V with Leads 647316023 0.5 (1.0) 3200 W. 480 V with Leads 647316033 0.5 (1.0) Heater Crush Plate (Replace One with Each 0.5 (1.0) K4919001 NewHeater) Heater Clamping Plate (Three Required Per Pump) 4.0 (8.0) K4917001 HS-16/20 Heater Wire, 10 AWG, 120 Inches 1.0 (0.4) X3900-68000 (Two Per Heater Required) Heater Insulator (One Required Per Pump) 79309001 0.5 (1.0) Replacement O-Ring Kit for ASA Pumps (Kit Contains: 1 Inlet Flange O-Ring, 1 Foreline 0.5 (1.0) K0377164 Flange O-Ring, Sight Glass O-Ring and Gasket, 8 Fill and Drain O-Rings) Sight Glass Service Kit (Pumps Built Before 1.5 (3.0) F6097301 Oct. 1995) Sight Glass (Pumps Built After Oct.1995) K8475001 Upper (Water) Thermal Switch (Set at 185 °F/85 °C) 0.5 (1.0) K9050001 Lower (Boiler) Thermal Switch 0.5 (1.0) K9050002

Accessories

Description

Weight

kg (lb)

Part Number

Cold Cap Nut and Follower (Two Each)
- Inlet flange 16 in. ASA, foreline flange 3 in. ASA.

Cold Cap Gasket/Grommet (Kit of Four)

Inlet flange DN 500 ISO-K, foreline flange DN 100 ISO-K.

- Not recommended for use with Santovac 5.

(Set at 390 °F/199 °C)

- Pumps with ASA flanges include O-rings for inlet and foreline flanges.

 Pumps with ISO flanges do not include centering rings required for foreline and inlet flanges.



L8839301

L8840301

0.5 (1.0)

0.5 (1.0)

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www.agilent.com/en/product/vacuumtechnologies/diffusion-pumps/largediffusion-pumps/hs-16-diffusion-pump

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