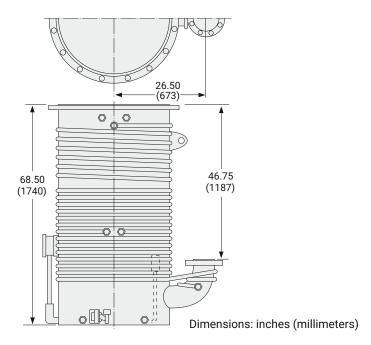


# HS-32 Oil Diffusion Pump





Download 3d drawings here.

The Agilent HS-32 oil diffusion pump provides high throughput and high pumping speed of 17,300 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. It is available with a 32 in. ASA or ISO DN 800 ISO-F (bolted) 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.

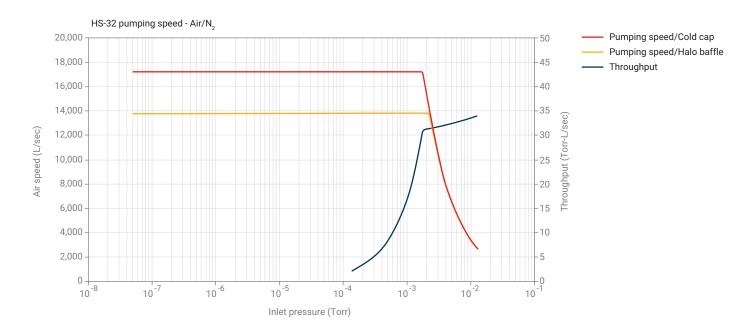
## **Technical specifications**

17,300 L/s air, 21,625 L/s He and $\rm H_{\rm 2}$
32,000 L/s air
30 T-L/s (40 mbar L/s) in operating range, 35 T-L/s (45 mbar-L/s) at 0.01 Torr
1.7 × 10 <sup>-3</sup> to <5 × 10 <sup>-8</sup> Torr (2.3 × 10 <sup>-3</sup> to <6.5 × 10 <sup>-8</sup> mbar)
No load: 0.50 Torr (0.65 mbar) Full load: 0.35 Torr (0.45 mbar)
≥300 cfm (510 m³/hr)
<7 × 10 <sup>-4</sup> mg/cm <sup>2</sup> /min
60 minutes
180 minutes (60 minutes with optional quick cool coil)
3 U.S. gallons (11.3 liters)
3 ph, 50/60 Hz, 240/415/480 VAC
24,000 watts
4 gpm (800 L/hr) at 60 to 80 °F (15 to 26 °C)
ISO 228 1/2 thread (with adapter M8x1 thread)
DC-704 or equivalent
DS302 Rotary Vane Pump

<sup>\*</sup> 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	Voltage	Weight kg (lb)	Part Number	
HS-32 Pump			ASA	ISO
HS-32 with Standard Cold Cap	240 V	612 (1,350)	76134308	L5923308
HS-32 with Halo Baffle	240 V	612 (1,350)	76134318	L5923318
HS-32 with Standard Cold Cap	415 V	612 (1,350)	76134326	L5923326
HS-32 with Halo Baffle	415 V	612 (1,350)	76134336	L5923336
HS-32 with Standard Cold Cap	480 V	612 (1,350)	76134309	L5923309
HS-32 with Halo Baffle	480 V	612 (1,350)	76134319	L5923319

Description	Weight kg (lb)	Part Number			
Accessories					
Water-Cooled Halo Baffle	16 (35)	K1856332			
Quick Cool Coil – Must Be Installed In The Factory		Factory Special			
Centering Ring for ISO Foreline Flange, 200K	0.5 (1.0)	IC200SV			
Adapter Kit, 3/8 FPT to G 1/2 Water Fittings		X3900-68011			
Replacement Parts (Six Heaters Required Per Pump)					
Heater*, 4000 W, 240 V/415 V/480 V with Leads	0.5 (1.0)	647332010			
Heater*, 4000 W, 240 V/415 V/480 V no Leads – Used On Pumps Built Before May 1990	0.5 (1.0)	647332075			
Heater Crush Plate (Replace One with Each New Heater)	0.5 (1.0)	K7246001			
Heater Clamping Plate (Six Required Per Pump)	4.0 (8.0)	K7247001			
HS-32/35 Heater Wire, 10 AWG, 196 Inches (Two Per Heater Required)	1.0 (0.4)	X3900-68003			
Heater Insulator (One Required Per Pump)	0.5 (1.0)	75792001			
Replacement O-Ring Kit For Asa Pumps (Kit Contains: 1 Inlet Flange O-Ring, 1 Foreline Flange O-Ring, Sight Glass O-Ring and Gasket, 8 Fill and Drain O-Rings)	0.5 (1.0)	K0377167			
Sight Glass Service Kit (Pumps Built Before Oct. 1995)	1.5 (3.0)	F6097301			
Sight Glass (Pumps Built After Oct. 1995)	1.5 (3.0)	L9223001			
ISO Inlet Flange O-Ring	0.5 (1.0)	L9165001			
Upper (Water) Thermal Switch (Set at 220 °F/104 °C)	0.5 (1.0)	K9050003			
Lower (Boiler) Thermal Switch (Set at 550 °F/288 °C)	0.5 (1.0)	K9050004			
Cold Cap Gasket/Grommet (Kit of Four)	0.5 (1.0)	L8839301			
Cold Cap Nut and Follower (Two each)	0.5 (1.0)	L8840301			

- Inlet flange 32 in. ASA, foreline flange 6 in. ASA.
- Inlet flange DN 800 ISO-F, foreline flange DN 200 ISO-K.
- Not recommended for use with Santovac 5.
- ASA pump versions include 0-rings for both inlet and foreline flanges.
- ISO pump versions include inlet flange O-ring, but does not include foreline flange centering ring.

Please note that this item is controlled for export by the Nuclear Suppliers Group. Accordingly, you may be required to obtain export licenses, including from US government authorities prior to exporting this diffusion pump from the United States. Please contact Agilent Vacuum Products, and the U.S. Export Administration regulations ECCN 2B231 for further guidance.

www.agilent.com/en/product/vacuumtechnologies/diffusion-pumps/largediffusion-pumps/hs-32-diffusion-pump

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