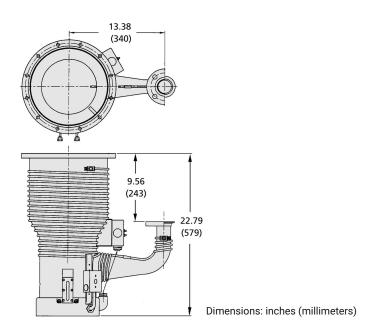


# VHS-250 Oil Diffusion Pump





Download 3d drawings here.

The VHS-250 diffusion pump has a pumping speed of 2,125 L/s and has a stainless steel body and flanges allowing easy cleaning. There is also a sight glass/fill and drain assembly for continuous monitoring and easy maintenance of pump fluid. The patented Bulge Contour increases gas capture and maintains lower pressure. Finned boilers increase surface area, prolonging pumping fluid life.

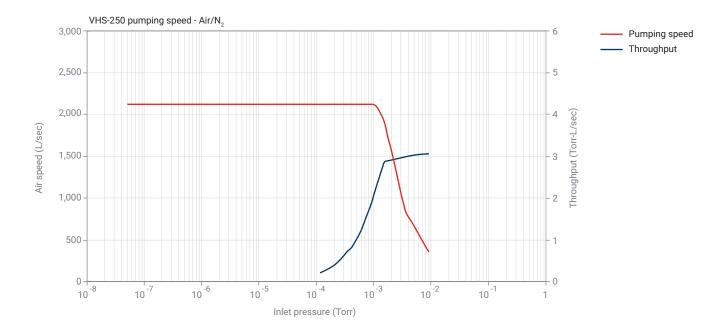
This diffusion pump is a perfect fit for high vacuum and industrial applications such as vacuum furnace, heat treatment, metallizing, and coating processes for optical lenses, electronics, and protective film layers.

# **Technical specifications**

2,125 L/s air, 2,660 L/s He and $\rm H_{\rm 2}$
3,700 L/s air
2.6 T-L/s (3.5 mbar-L/s) in operating range, 3.5 T-L/s (4.5 mbar L/s) at 0.01 Torr
1.2 × 10 <sup>-3</sup> to <5 × 10 <sup>-9</sup> Torr (1.6 × 10 <sup>-3</sup> to <6.5 × 10 <sup>-9</sup> mbar)
No load: 0.65 Torr (0.85 mbar) Full load: 0.55 Torr (0.72 mbar)
≥17 cfm (29 m³/hr)
<5.0 × 10 <sup>-4</sup> mg/cm <sup>2</sup> /min
10 minutes
10 minutes (with quick cool coil)
500 cc – exact fluid charge available
1 ph, 50/60 Hz, 120/208/240 VAC
2,200 watts
0.25 gpm (50 L/hr)
1/4 in. FPT Tee
DS40M 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	
VHS-250 Pump				
VHS-250 with Standard Cold Cap	120 V	34.0 (75.0)	K0543301	
VHS-250 with Standard Cold Cap	208 V	34.0 (75.0)	K0543306	
VHS-250 with Standard Cold Cap	240 V	34.0 (75.0)	K0543302	

Description	Weight kg (lb)	Part Number	
Accessories			
Santovac 5 Diffusion Pump Fluid, 500 cc (Exact Pump Charge)	1.1 (2.5)	695405005	
Replacement Parts (One Heater Required Per Pump)			
2200 W, 120 V Heater	0.5 (1.0)	647306125	
2200 W, 208 V Heater	0.5 (1.0)	647306175	
2200 W, 240 V Heater	0.5 (1.0)	647306225	
Heater Clamping Assembly (Includes Clamping Plate, Cover Plate, Insulator)		86643301	
Heater Cover Plate (One Required Per Pump)	1.0 (2.0)	86088001	
Heater Insulator (One Required Per Pump)	0.2 (0.5)	86087001	
Heater Clamping Plate (One Required Per Pump)	0.5 (1.0	86086301	
VHS-6/250 Heater Wire, 10 AWG, 36 Inches (Three Per Pump Required)	0.5 (2.0)	X3901-68002	
Replacement O-Ring Kit (Kit Contains: 3 Inlet Flange O-Rings, 3 Foreline Flange O-Rings, Sight Glass O-Ring and Gasket, 10 Fill and Drain O-Rings)	0.5 (1.0)	K0377178	
Thermal Switch (set at 300 °F - 147 °C)	0.5 (1.0)	642906025	
Sight Glass Repair Kit		L8908301	

<sup>-</sup> Inlet flange: DN 250 ISO-F (bolted, O-ring seal).

### **Contact information**

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This information is subject to change without notice.



<sup>-</sup> Foreline flange: ASA with 5 in. od.