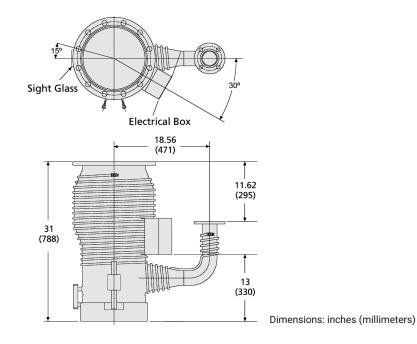


VHS-10 Oil Diffusion Pump





Download 3d drawings here.

The VHS-10 diffusion pump has a pumping speed of up to 3,650 L/s and can be ordered with ASA or ISO flanges, standard or extended cold caps, and a variety of voltages. The patented Bulge Contour increases gas capture and maintains lower pressure. The VHS-10 has 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. Finned boilers increase surface area, prolonging pumping fluid life.

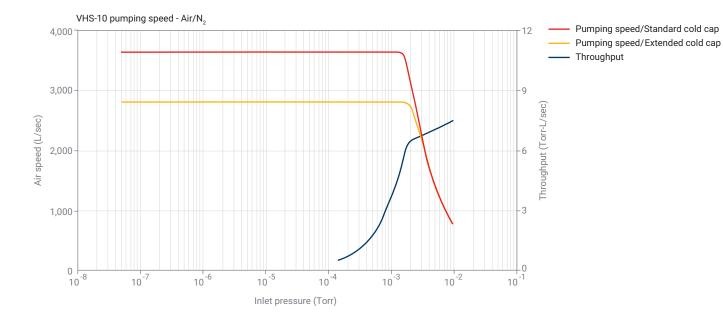
This diffusion pump is a perfect fit for industrial applications such as vacuum furnace, heat treatment, metallizing, and coating processes for optical lenses, electronics, and protective film layers.

Technical specifications

Pumping Speed, Operating Range	3,650 L/s air, 4,560 L/s He and $\rm H_{2}$
Pumping Speed, AVS 4.1 (1963)	5,300 L/s air
Maximum Throughput	6.3 T-L/s (8.4 mbar-L/s) in operating range, 7.5 T-L/s (10.0 mbar-L/s) at 0.01 Torr
Operating Range	1.7×10^{-3} to $<5 \times 10^{-9}$ Torr at 4,400 W (2.3 × 10 ⁻³ to <6.5 10 ⁻⁹ mbar)
Maximum Forepressure	No load: 0.65 Torr (0.85 mbar) Full load: 0.55 Torr (0.72 mbar)
Recommended Backing Pump	≥30 cfm (51 m³/hr)
Backstreaming Rate, Standard Cold Cap	<5.0 × 10 ⁻⁴ mg/cm ² /min
Warmup Time	15 minutes
Cooldown Time	25 minutes
Fluid Charge	1,000 cc
Electrical Requirements	3 ph, 50/60 Hz, 208/240/380/480 VAC
Pump Power	4,400 watts
Cooling Water Requirements	0.40 gpm (80 L/hr)
Water Connections	⅓ in FPT Tee
Recommended Holding Pump*	DS102 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

Weight		Part Number	
Description	kg (lb)	ASA	ISO
VHS-10 with Standard Cold Cap, 208 V	68 (150)	F0426307	L5920307
VHS-10 with Extended Cold Cap, 208 V	68 (150)	F0426317	L5920317
VHS-10 with Standard Cold Cap, 240 V	68 (150)	F0426308	L5920308
VHS-10 with Extended Cold Cap, 240 V	68 (150)	F0426318	L5920318
VHS-10 with Standard Cold Cap, 380 V	68 (150)	F0426326	L5920326
VHS-10 with Extended Cold Cap, 380 V	68 (150)	F0426336	L5920336
VHS-10 with Standard Cold Cap, 480 V	68 (150)	F0426309	L5920309
VHS-10 with Extended Cold Cap, 480 V	68 (150)	F0426319	L5920319

Description	Weight kg (lb)	Part Number		
Accessories				
Centering Ring for ISO Foreline Flange, 63K	0.5 (1.0)	IC063SV		
Replacement Parts (Two Heaters Required Per Pump)				
2200 W, 208 V Heater	0.5 (1.0)	647310140		
2200 W, 240 V Heater	0.5 (1.0)	647310150		
2200 W, 380 V Heater	0.5 (1.0)	647310160		
2200 W, 480 V Heater	0.5 (1.0)	647310170		
Heater Crush Plate (Covers Both Heaters; One Required for Pump; Replace When Either Heater is Replaced)	1.0 (2.0)	K7667001		
Heater Clamping Plate (One Required Per Pump)	0.5 (1.0)	R2667301		
VHS-10/400 Heater Wire, 10 AWG, 42 Inches (Three Per Pump Required)	1.0 (0.4)	X3901-68003		
Replacement O-Ring Kit (Kit Contains: 1 Inlet Flange O-Ring, 1 Foreline Flange O-Ring, Sight Glass O-Ring and Gasket, 10 Fill and Drain O-Rings)	1.0 (0.5)	K0377185		
Thermal Switch (set at 300 °F – 147 °C)	0.5 (1.0)	642906025		
Extended Cold Cap	2.0 (0.9)	L8917301		
Sight Glass Repair Kit		L8908301		

- Inlet flange 10 in. ASA, foreline flange 2 in. ASA.

- Inlet flange DN 320 ISO-K, foreline DN 63 ISO-K.

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