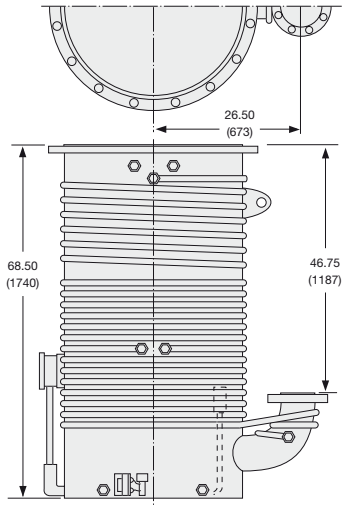
Agilent HS-32





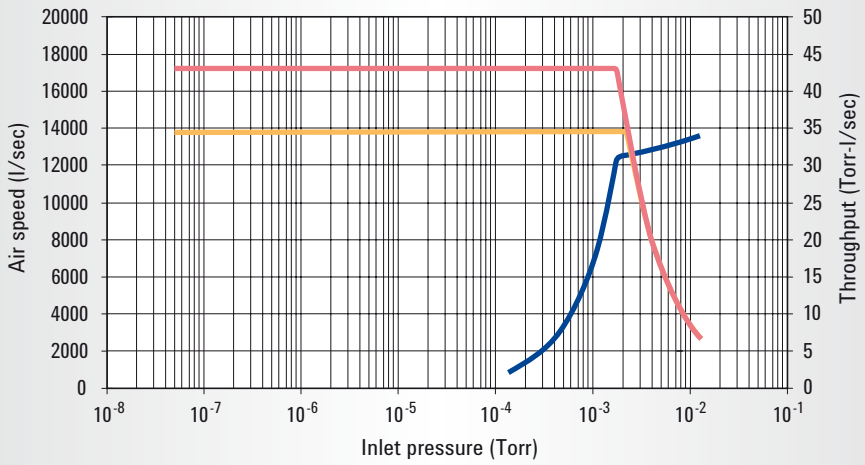
Dimensions: inches (millimeters)

Technical Specifications

Pumping speed, operating range **Pumping speed*, AVS 4.1** (1963)	17,300 l/s air, 21,625 l/s He and H_2 32,000 l/s air
Maximum throughput	30 T-l/s (40 mbar l/s) in operating range, 35 T-l/s (45 mbar-l/s) @ 0.01 Torr
Operating range	1.7 x 10^{-3} to <5 x 10^{-8} Torr (2.3 x 10^{-3} to <6.5 x 10^{-8} mbar)
Maximum forepressure	No load: 0.50 Torr (0.65 mbar) Full load: 0.35 Torr (0.45 mbar)
Recommended backing pump	≥300 cfm (510 m^3/hr)
Backstreaming rate, standard cold cap**	<7 x 10^{-4} mg/cm^2/min
Warmup time	60 minutes
Cooldown time	180 minutes
Fluid charge	3 U.S. gallons (11.3 liters)
Electrical requirements	3 ph, 50/60 Hz, 240/415/480 VAC
Pump power	24,000 watts
Cooling water requirements	4 gpm (800 l/hr) at 60-80 °F (15-26 °C)
Water connections	⅜ in. FPT Tee
Recommended fluid	DC-704 or equivalent (see page 30)

** For an explanation of pumping speed measurements, please see page 34.*
*** Refer to page 32 for a description of test methods.*

HS-32 Pumping Speed - Air/N_2



Ordering Information

Description HS-32 Pump	Wt. kg (lbs)	Part Number 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

Accessories	Wt. kg (lbs)	Part Number
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
Installation and Operation Manual (download from www.agilent.com/chem/vacuum)		699901140

NOTE
- *Inlet flange 32 in. ASA, foreline flange 6 in. ASA*
- *Inlet flange ISO 800F (bolted), foreline flange ISO 200K (clamped)*
- *Not recommended for use with Santovac 5*
- *ASA pump versions include o-rings for both inlet and foreline flanges*
- *ISO pump versions include inlet flange o-ring, but does not include foreline flange centering ring*

Description	Wt. kg (lbs)	Part Number
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 '90	0.5 (1.0)	647332075
**One heater consists of 2-120V heaters, right and left*		
Heater crush plate (replace one with each new heater)	0.5 (1.0)	K7246001
Heater insulator (one required per pump)	0.5 (1.0)	75792001
Heater clamping plate (six required per pump)	4 (8)	K7247001
HS-32/35 heater wire, 10 AWG, 196 inches (2 per heater required)	1.0 (0.4)	X3900-68003
Replacement o-ring kit for ASA pumps (kit contains: 1 inlet flange o-ring (buna 45390001), 1 foreline flange o-ring (butyl 2-443), sight glass o-ring and gasket, 8 fill and drain o-rings (Viton 2-213)	0.5 (1.0)	K0377167
Sight glass service kit (pumps built before Oct. '95)	1.5 (3.0)	F6097301
Sight glass service kit (pumps built after Oct. '95)	1.5 (3.0)	L9223001
ISO inlet flange o-ring	0.5 (1.0)	78536002
Upper (water) thermal switch (set at 220 °F/104 °C)	0.5 (1.0)	K9050005
Lower (boiler) thermal switch (set at 550 °F/288 °C)	0.5 (1.0)	K9050004
Cold cap gasket/grommet (kit of 4)	0.5 (1.0)	L8839301
Cold cap nut and follower (2 each)	0.5 (1.0)	L8840301

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.