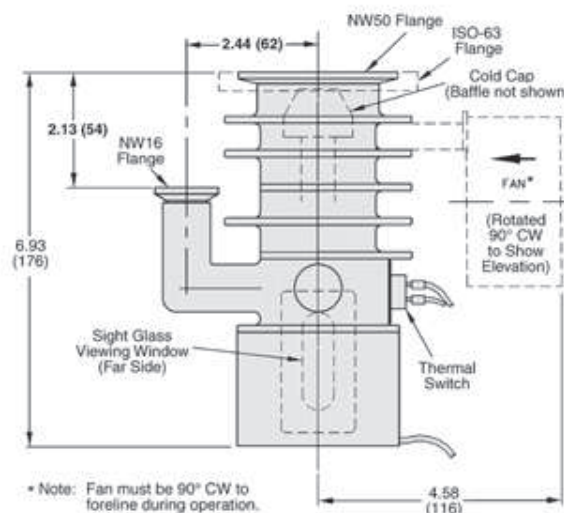


## PUMP MODELS

### ▶ Agilent AX-65



Dimensions: inches (millimeters)

### Technical Specifications

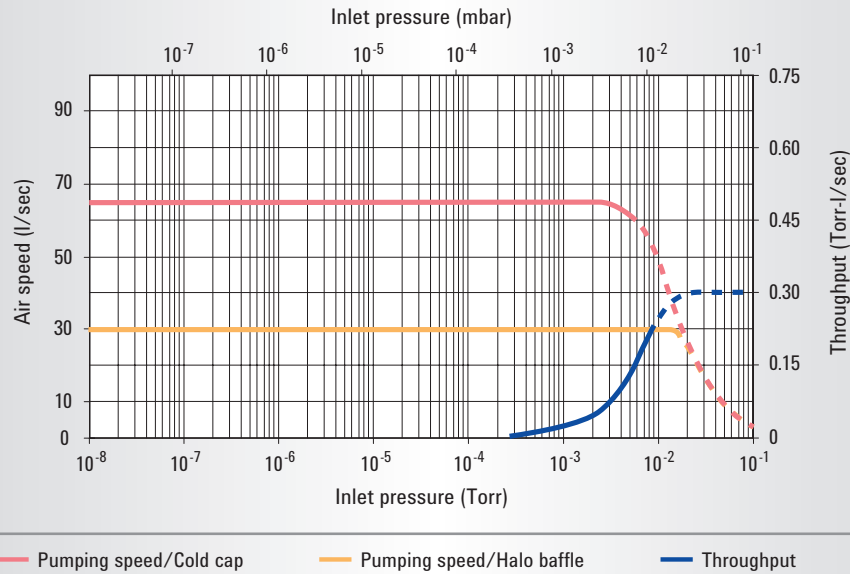
<b>Pumping speed*, operating range</b>	65 l/sec air, 90 l/s He and H <sub>2</sub>
<b>Maximum throughput</b>	0.19T-l/s (0.25 mbar-l/s) in operating range, 0.30T-l/s (0.40 mbar-l/s) @ 0.01 Torr
<b>Compression ratio</b>	4 x 10 <sup>7</sup> (air), 2 x 10 <sup>6</sup> (helium)
<b>Operating range</b>	3 x 10 <sup>-3</sup> to <5 x 10 <sup>-8</sup> Torr (3.9 x 10 <sup>-3</sup> to 6.5 x 10 <sup>-8</sup> mbar)
<b>Maximum forepressure</b>	No load: 0.75 Torr (1.00 mbar) Full load: 0.60 Torr (0.78 mbar)
<b>Backstreaming rate**</b>	With cold cap: <2 x 10 <sup>-4</sup> mg/cm <sup>2</sup> /min With baffle: <2 x 10 <sup>-5</sup> mg/cm <sup>2</sup> /min
<b>Recommended backing pump</b>	≥1.5 cfm (2.5 m <sup>3</sup> /hr)
<b>Warmup time</b>	7 minutes
<b>Cooldown time</b>	10 minutes
<b>Fluid charge</b>	30 cc
<b>Electrical requirements</b>	1 ph, 50/60 Hz, 90/115/165/220 VAC
<b>Pump power</b>	200/250 watts
<b>Air cooling</b>	30 cfm

\* For an explanation of pumping speed measurements, please see page 160.

\*\* Refer to page 158 for a description of test methods.

# DIFFUSION PUMPS

## AX-65 - Pumping Speed - Air/N<sub>2</sub>



## Ordering Information

Description	Wt. kg (lbs)	Part Number	
		KF-50	ISO-6
AX-65 with standard cold cap, 115 V, 250 W	3.6 (8.0)	L9670301	L9707301
AX-65 with internal baffle, 115 V, 250 W	3.6 (8.0)	L9670311	L9707311
AX-65 with standard cold cap, 220 V, 250 W	3.6 (8.0)	L9670302	L9707302
AX-65 with internal baffle, 220 V, 250 W	3.6 (8.0)	L9670312	L9707312
AX-65 with standard cold cap, 115 V, 200 W	3.6 (8.0)	L9670303	L9707303
AX-65 with internal baffle, 115 V, 200 W	3.6 (8.0)	L9670313	L9707313
AX-65 with standard cold cap, 220 V, 200 W	3.6 (8.0)	L9670304	L9707304
AX-65 with internal baffle, 220 V, 200 W	3.6 (8.0)	L9670314	L9707314
AX-65 with standard cold cap, 90 V, 250 W	3.6 (8.0)	L9670305	L9707305
AX-65 with internal baffle, 90 V, 250 W	3.6 (8.0)	L9670315	L9707315
AX-65 with standard cold cap, 165 V, 250 W	3.6 (8.0)	L9670306	L9707306
AX-65 with internal baffle, 165 V, 250 W	3.6 (8.0)	L9670316	L9707316

- NOTE**
- All pumps have NW-16 foreline
  - See page 156 for Santovac 5 diffusion pump fluid
  - Mounted cooling fan included with each pump (P/N 661300138)
  - Overtemperature thermal switch set to open at 365 °F (182 °C)
  - Use 250W heater with polyphenyl ether fluids (such as Santovac 5). Use 200 W heater for other fluids.

Description	Wt. kg (lbs)	Part Number
<b>Accessories</b>		
Santovac 5 diffusion pump fluid, 40 cc	0.5 (1.0)	695405001
Santovac 5 diffusion dump fluid, 65 cc	0.9 (2.0)	695405002
Internal baffle kit	0.9 (2.0)	R1160065
Centering ring for inlet flange, NW50	0.5 (1.0)	KC50SB
Centering ring for inlet flange, ISO-63	0.2 (0.5)	IC063SV
Centering ring for foreline flange, NW16	0.2 (0.5)	KC16SB
Installation and Operation Manual (download from <a href="http://www.agilent.com/chem/vacuum">www.agilent.com/chem/vacuum</a> )		699901062

<b>Replacement Parts (one heater harness required per pump)</b>		
200 W, 115 V heater harness (for use with Invoil 704 or equivalent)	0.5 (1.0)	L9994307
250 W, 115 V heater harness (for use with Santovac 5 or equivalent)	0.5 (1.0)	L9994303
200 W, 220 V heater harness (for use with Invoil 704 or equivalent)	0.5 (1.0)	L9994308
250 W, 220 V heater harness (for use with Santovac 5 or equivalent)	0.5 (1.0)	L9994304
250 W, 90 V heater harness (for use with Santovac 5 or equivalent)	0.5 (1.0)	L9994301
250 W, 165 V heater harness (for use with Santovac 5 or equivalent)	0.5 (1.0)	L9994302
Overtemperature thermal switch (included with each heater harness)	0.5 (1.0)	L9964001
Pump ready thermal switch (optional)	0.5 (1.0)	L9964002