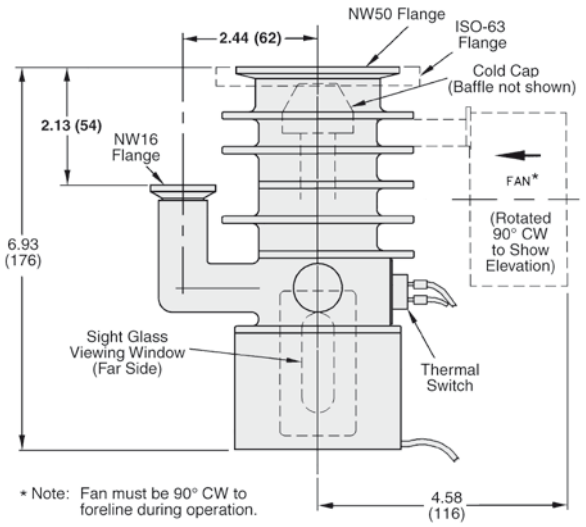
## Agilent AX-65





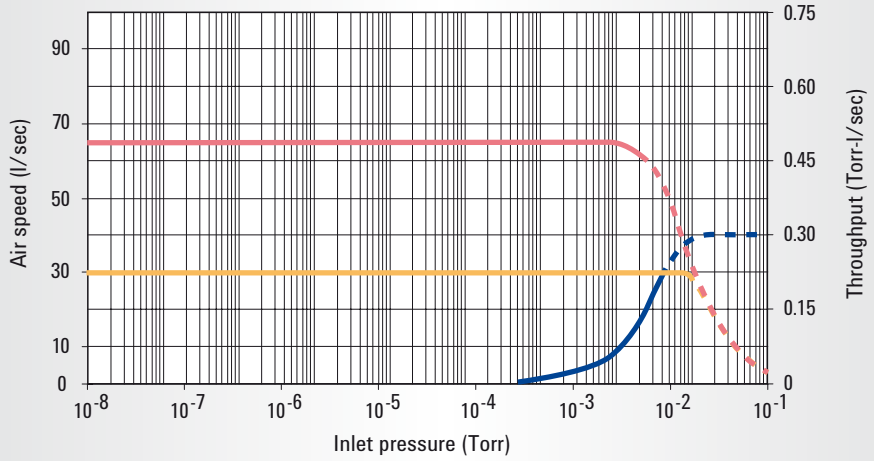

*Dimensions: inches (millimeters)*

### Technical Specifications

| | |
|---|---|
| **Pumping speed*, operating range** | 65 l/sec air, 90 l/s He and $H_2$ |
| **Maximum throughput** | 0.19T-l/s (0.25 mbar-l/s) in operating range, 0.30T-l/s (0.40 mbar-l/s) @ 0.01 Torr |
| **Compression ratio** | 4 x $10^7$ (air), 2 x $10^6$ (helium) |
| **Operating range** | 3 x $10^{-3}$ to <5 x $10^{-8}$ Torr (3.9 x $10^{-3}$ to 6.5 x $10^{-8}$ mbar) |
| **Maximum forepressure** | No load: 0.75 Torr (1.00 mbar)<br>Full load: 0.60 Torr (0.78 mbar) |
| **Backstreaming rate**** | With cold cap: <2 x $10^{-4}$ mg/cm$^2$/min<br>With baffle: <2 x $10^{-5}$ mg/cm$^2$/min |
| **Recommended backing pump** | ≥1.5 cfm (2.5 m$^3$/hr) |
| **Warmup time** | 7 minutes |
| **Cooldown time** | 10 minutes |
| **Fluid charge** | 30 cc |
| **Electrical requirements** | 1 ph, 50/60 Hz, 90/115/165/220 VAC |
| **Pump power** | 200/250 watts |
| **Air cooling** | 30 cfm |

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

## AX-65 - Pumping Speed - Air/$N_2$




## Ordering Information

| Description | Wt. kg (lbs) | Part Number KF-50 | Part Number 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 30 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 |
|---|---|---|
| **Accessories** | | |
| 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 www.agilent.com/chem/vacuum) | | 699901062 |
| **Replacement Parts** (one heater harness required per pump) | | |
| 200 W, 115 V heater harness (for use with DC-704 and DC-702 or equivalents) | 0.5 (1.0) | L9994307 |
| 250 W, 115 V heater harness (for use with DC-705/or equivalent and Santovac 5) | 0.5 (1.0) | L9994303 |
| 200 W, 220 V heater harness (for use with DC-704 and DC-702 or equivalents) | 0.5 (1.0) | L9994308 |
| 250 W, 220 V heater harness (for use with DC-705/or equivalent and Santovac 5) | 0.5 (1.0) | L9994304 |
| 250 W, 90 V heater harness (for use with DC-705/or equivalent and Santovac 5) | 0.5 (1.0) | L9994301 |
| 250 W, 165 V heater harness (for use with DC-705/or equivalent and Santovac 5) | 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 |