

Agilent MS45 Rotary Vane Pump



Product description

The MS45 single-stage rotary vane pump with inverter delivers reliable, high gas-throughput operation below 10 Torr, ensuring consistent performance for demanding environments such as mass spectrometry (LC/MS, ICP/MS, GC/TOF/MS), electron microscopy, and many other scientific instrumentation platforms.

Product features

- Universal pumping performance at all global frequencies and input voltages
- Energy-efficient inverter motor allows dynamic speed and pressure adjustment to minimize power consumption
- Status LED for quick visual system monitoring
- Flexible connectivity through RS-232, RS-485, and RJ-45 interfaces, and seamless integration with Agilent A-PLUS software
- Built-in anti-suck-back device to prevent reverse flow and protect the system

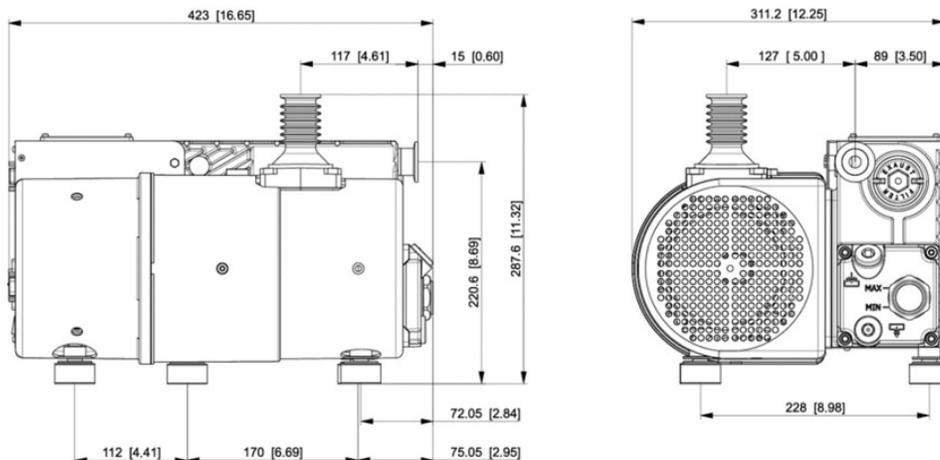
Shipped without a power cord, to be ordered separately

Technical specifications

| Parameter | Value | | | |
|--|---|------|------|------|
| | RPM | | | |
| RPM | 900 | 1050 | 1200 | 1350 |
| Max Pumping speed* (m³/h) | 32 | 36 | 41 | 45 |
| Noise level dB(A) | < 58 | < 59 | < 60 | < 61 |
| Rotational Frequency (Hz) | 30 | 35 | 40 | 45 |
| Ultimate pressure* | < 5×10^{-2} mbar | | | |
| Motor rating | 0.75 kW | | | |
| Oil Capacity | 1 L | | | |
| Operating Temperature Range | 12 ~ 40 °C | | | |
| Nominal Input Voltage | 100 ~ 240 (±10%) Vac | | | |
| Input frequency | 50/60 Hz | | | |
| Max input power | 1,000 VA | | | |
| Inlet Flange | KF25 | | | |
| Exhaust Flange | KF25 | | | |
| Main dimensions (Length × Width × Height) | 440 × 306 × 271 mm | | | |
| Weight | 35 kg 77 lbs | | | |
| Max Altitude | 4,000 M | | | |
| IP Grade | 20 | | | |
| Installation category | II | | | |
| Pollution degree | 2 | | | |
| Safety | Machinery Directive 2006/42/EC:2006 – EN 1012-2:1996+A1:2010 – EN ISO 12100:2012 Low Voltage Directive 2014/35/EU – IEC 61010-1 Ed. 3.1 b:2018 CSA certified for U.S.A. and Canada | | | |
| Emissions and Immunity | Electromagnetic Compatibility 2014/30/EU:2014 – EN 61326-1:2020 Class B – EN 61000-3-2:2019 Class A – EN 61000-3-3:2014/A2:2022 Class A – EN 61000-6-2:2020 | | | |
| Energy Efficiency | Ecodesign Directive 2009/125/EC:2010 Regulation (EU) 2019/178 2019-1781 – EN 60034-30-1:2015 | | | |

*According to ISO21360-1 e ISO21360-2

MS45 rotary vane pump outline drawing



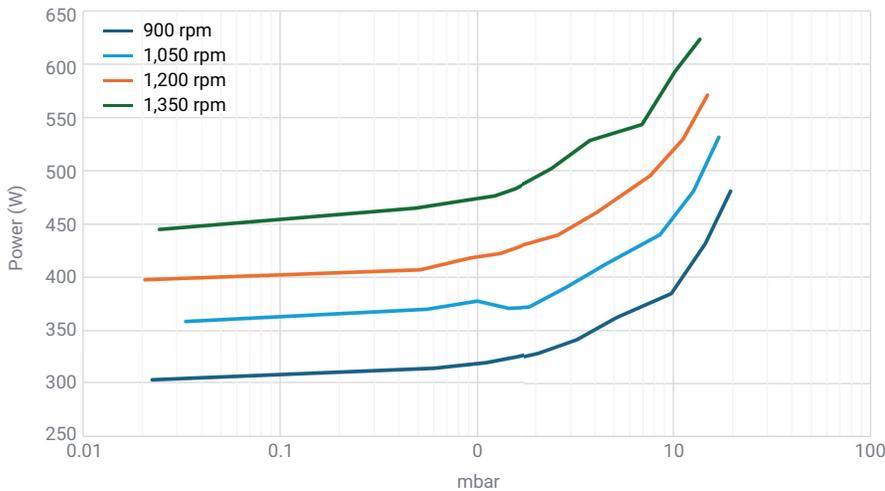


Figure 1. Agilent MS45 rotary vane pump power consumption graph.

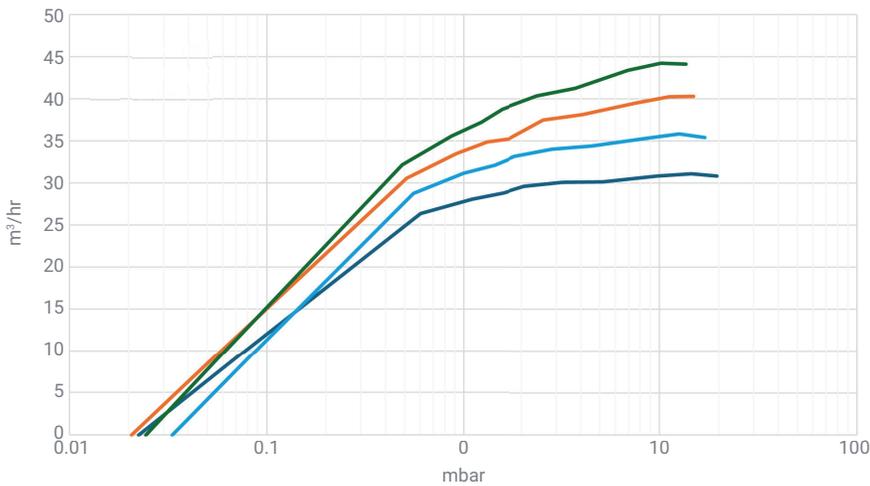


Figure 2. Agilent MS45 rotary vane pump pumping speed graph.

Ordering information

| Part Number | Description |
|------------------------|--|
| X3706-64000 | MS45 rotary vane pump, KF25 |
| Accessory Parts | |
| X3760-64005 | Rotary vane pump fluid, AVF 60 GOLD, 1 quart |
| 9499201 | Exhaust filter kit |
| X3705-67000 | Oil filter cap removal tool |
| X3705-67201 | Exhaust flange KF25 1/2G |
| 9499396 | Power cable, 1 ph, 2 meters, Europe |
| 9499400 | Power cable, 3 meters, 208 V, 60 Hz |
| 9499398 | Power cable, 1 ph, 2 meters, UK |
| 9499399 | Power cable, 3 meters, IEC 320 |
| X3706-67201 | DB9 I/O Interlock connector |
| 9699883 | RS232 serial cable, 3 meters |
| Spare Parts | |
| X3706-67000 | Major maintenance kit |
| X3705-67004 | Oil sight window gasket |
| X3705-67302 | Oil level indicator |
| X3706-67100 | Feet kit |
| X3706-67101 | Inlet valve and flange |
| X3706-67300 | Cowling set and screws |
| SR03707551 | Oil mist filter cap |

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