

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
- Incorporated RS-232 and RS-485 interfaces enable easy integration setups
- Full compatibility with Agilent A-PLUS software ensures streamlined control and monitoring
- Built-in anti-suck-back device to prevent reverse flow and protect the system

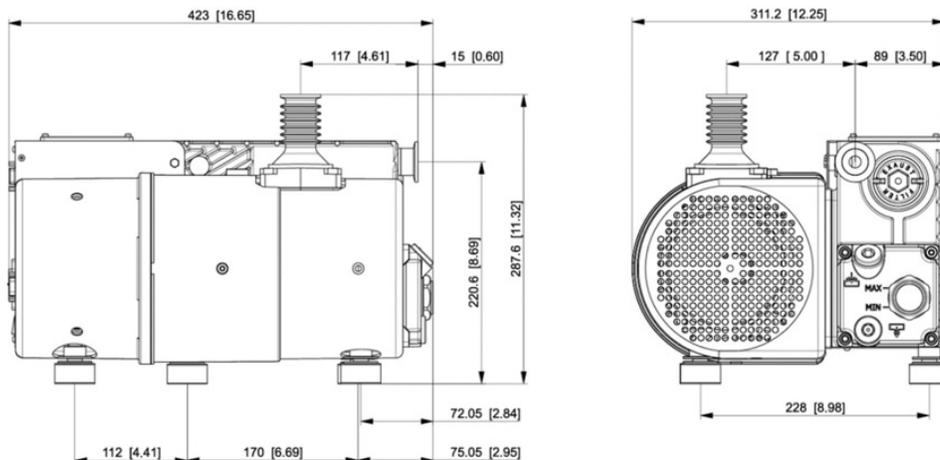
Shipped without a power cord, to be ordered separately

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)	423 × 311.2 × 287.6 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



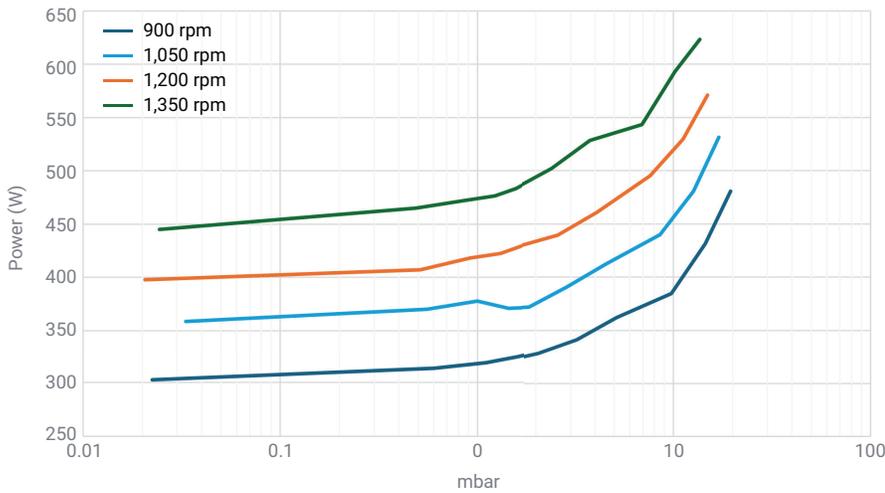


Figure 1. Agilent MS45 rotary vane pump power consumption graph.

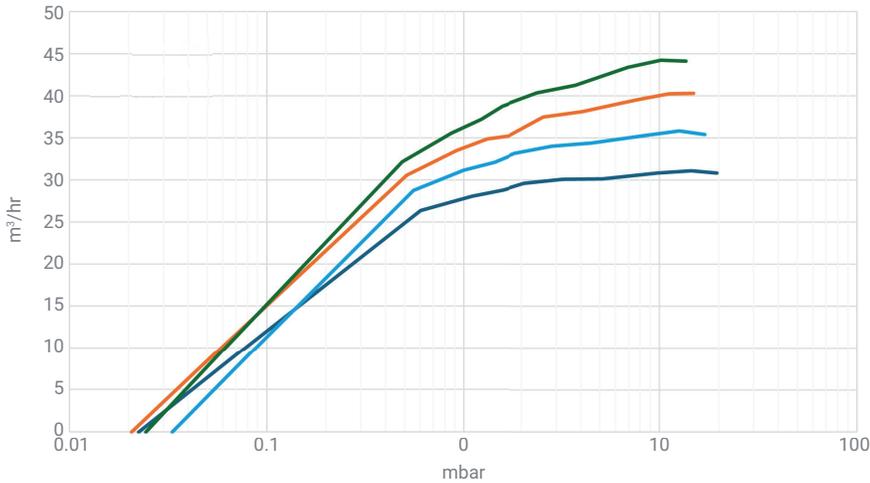


Figure 2. Agilent MS45 rotary vane pump pumping speed graph.

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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