

Agilent MS 120 Single Stage Rotary Vane Pump



Designed for Mass Spectrometry

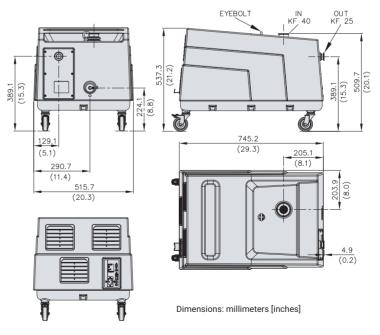
The Agilent MS 120 is a new high capacity, single stage, inverter driven rotary vane pump.

Designed for high pumping speeds, low power consumption and high stability in the 10⁻² mbar pressure range, the MS 120 is especially suited for Mass Spectrometry applications.

Due to the outstanding performance of the MS 120, there is no need for multiple roughing pumps operating in parallel.

The packaging and cart like design allow for a quick and easy installation, and for a significant noise reduction.

Outline Drawings



The MS 120 sets a new state-of-the-art standard in roughing pumps designed to equip the next generation of analytical instruments.

MS 120 Rotary Vane Pump

Technical Specifications

Feature	Unit of measure	Value
Nominal speed (at 1500 rpm) (according to PNEUROP standard 6602)	m³/h [cfm]	156 [92]
Effective capacity at 5 mbar abs. (3.75 torr)	m³/h [cfm]	≥120 [≥71]
Ultimate total pressure with gas ballast valve open	mbar [torr]	≤0.2 [≤0.150]
Ultimate total pressure with gas ballast valve closed	mbar [torr]	≤0.07 [≤0.0525]
Oil capacity	L [Gal US]	1.8 [0.47]
Motor power (temperatures up to 40°C and altitudes lower than 1000m)	kW [Hp]	1.8 [2.4]
Nominal input voltage and frequency (~1ph)	V	200 - 240
	Hz	50 - 60
Internal main fuse (T type)	А	15
Touch current	mA	3.0 maximum
Operating temperature range	°C [°F]	+12° to +35° [+54° to +95°]
Sound pressure level (at 50Hz without gas ballast valve)	dB(A)	60±1
Water vapour tolerance	mbar [torr]	15 [11.25]
Water vapour pumping capacity	kg/h [lbs/h]	1 [2.2]
Inlet flange		ISO KF DN40
Outlet flange		ISO KF DN25
Main dimensions:		
- width	mm [inch]	516 [20.3]
- length	mm [inch]	750 [29.5]
- height	mm [inch]	539 [21.2]
Total weight	kg [lbs]	100 [220]
IP value		20
Installation category		II
Pollution degree		2
Max altitude	m	2000

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CE Marks EN61326-1 2013 Electrical equipment for measurement control and laboratory use EMC requirements Emission: EN55011 Class B; EN61000-3-2; EN61000-3-3 Immunity Industrial Levels EN61010-1, 2010 (Safety requirements for electrical equipment for measurement control laboratory use) CSA Mark

United States

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This information is subject to change without notice.

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Ordering Information

Single Stage Rotary Vane Pump	Part Number
MS120 Single Stage RV*	X3702-64000

*2 bottles of fluid are required for each pump

Oil and Accessories	Part Number
AVF 60 Gold Lubricant Fluid	X3760-64005
MS120 – Minor Spare Part Kit	X3702-68201
MS120 – Major Spare Part Kit	X3702-68202
Power Cord US Plug IEC320	X3702-64001
Power Cord UK Plug IEC320	X3702-64003
Power Cord EU Plug IEC320	X3702-64006

Pumping speed curve at 1500rpm

