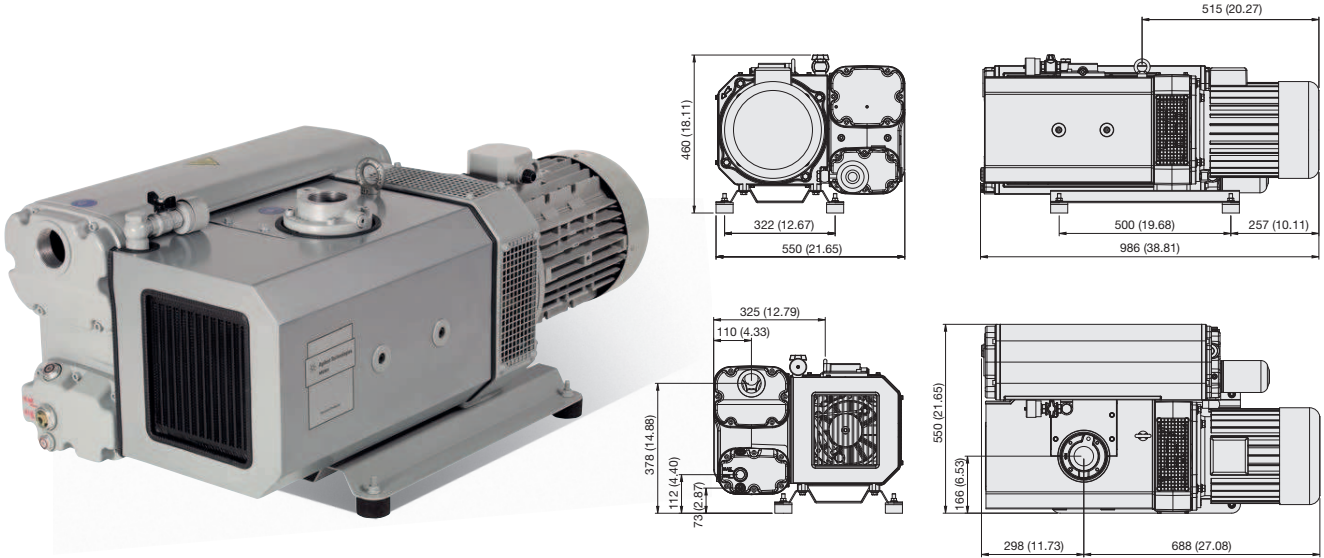


# Pump Models

## Agilent MS-301



Dimensions: millimeters (inches)

## Technical Specifications

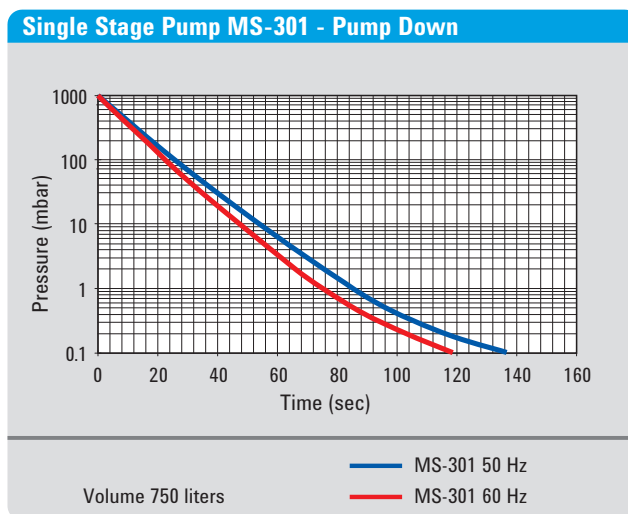
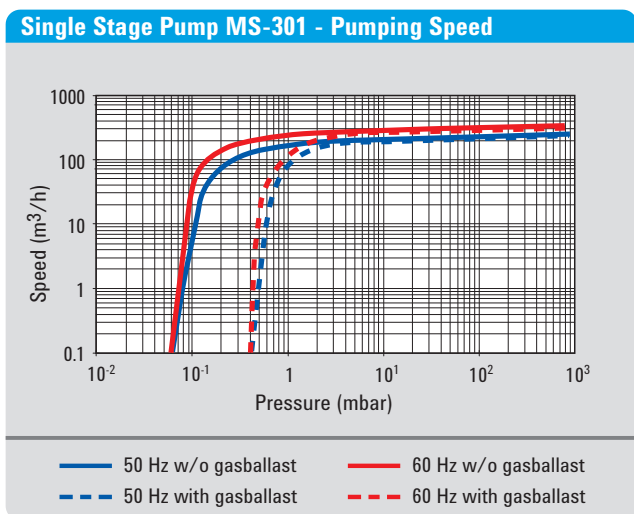
<b>Free air displacement</b>	60 Hz: 350 m <sup>3</sup> /hr, 210 cfm 50 Hz: 290 m <sup>3</sup> /hr, 170 cfm
<b>Pumping speed*</b>	60 Hz: 290 m <sup>3</sup> /hr, 170 cfm 50 Hz: 250 m <sup>3</sup> /hr, 150 cfm
<b>Ultimate partial pressure (with gas ballast closed)</b>	≤ 8 x 10 <sup>-2</sup> mbar (≤ 6 x 10 <sup>-2</sup> Torr)
<b>Ultimate total pressure (with gas ballast open)</b>	≤ 0,7 mbar (≤ 0,5 Torr)
<b>Power</b>	60 Hz: 7.5 kW (10.0 HP) 50 Hz: 5.5 kW (7.4 HP)
<b>Power supply voltage</b>	60 Hz: 208-230/460 V 50 Hz: 230/400 V 50 Hz: 400/690 V 50/60 Hz: 380-420/660-725 V
<b>Revolutions number</b>	60 Hz: 1750 RPM 50 Hz: 1450 RPM
<b>Water vapor tolerance</b>	60 Hz/50 Hz: 30/40 mbar (23/30 Torr)
<b>Water vapor capacity</b>	60 Hz/50 Hz: 5/7 kg/h (5.5/7.7 qt/hr)
<b>Noise level**</b>	60 Hz/50 Hz: 72/76 dB(A)
<b>Inlet port</b>	Flange DN 63 ISO-K / 2" gas / 2" NPT
<b>Exhaust port</b>	2" gas / 2" NPT
<b>Oil</b>	type MS-01, charge 7 liter (7.4 qt)
<b>Working ambient temperature range</b>	+12 +40 °C (+54 +105 F)
<b>Storage temperature</b>	-20 +70 °C (-4 +158 F)
<b>Dimensions</b>	60 Hz: 1015 x 550 x 460 mm (40.0 x 21.6 x 18.1 in.) 50 Hz: 986 x 550 x 460 mm (38.8 x 21.6 x 18.1 in.)
<b>Total weight (with/without motor)</b>	190/141 kg (420/310 lbs)

\* According to PNEUROP 6602

\*\* According to EN ISO 2151 (50/60 Hz)

# High Capacity MS-RPS Series

High Capacity  
MS-RPS Pumps



## Ordering Information

### High Capacity Rotary Vane Pumps

	Part Number
MS-301 with motor 5.5 kW, 50 Hz, 230/400 V, inlet port 2" gas. Oil charge not included.	9495001
MS-301 with motor 5.5 kW, 50 Hz, 230/400 V, inlet flange DN 63 ISO-K. Oil charge not included.	9495201
MS-301 with motor 5.5 kW, 50 Hz, 400/690 V, inlet port 2" gas. Oil charge not included.	9495601
MS-301 with motor 5.5 kW, 50 Hz, 400/690 V, inlet flange DN 63 ISO-K. Oil charge not included.	9495701
MS-301 with motor 9 kW, 60 Hz, 208-230/460 V, inlet port 2" NPT. Oil charge not included.	9495101
MS-301 with motor 9 kW, 60 Hz, 208-230/460 V, inlet flange DN 63 ISO-K. Oil charge not included.	9495301
MS-301 with motor 7.5 kW, 50/60 Hz, 380-420/660-725 V, inlet port 2" gas. Oil charge not included.	9495401
MS-301 with motor 7.5 kW, 50/60 Hz, 380-420/660-725 V, inlet flange DN 63 ISO-K. Oil charge not included.	9495501

### Oil and Accessories

	Part Number
MS-01 Oil charge for MS-301 (7 liters)	9495012
Inlet air filter with polyester cartridge, for 2" gas connection	9495059
Inlet air filter with polyester cartridge with DN 63 ISO-K flange	9495159
Connection fitting kit, for 2" gas connection	9495065
Connection fitting kit, for DN 63 ISO-K flange connection	9495165

### Protective Accessories

	Part Number
Pump thermal protection switch	9495076
Oil separator control pressure switch	9495077
MS-301 oil level protection switch	9495078

### Spare Parts

	Part Number
MS-301 minor spare part kit	9495020
MS-301 major spare part kit	9495021
Oil filter (type A)	9495070
MS-301 inlet air filter polyester cartridge	9495083
MS-301 exhaust coalescent filter kit	SR03706308