



# Agilent MS-101

## Technical Specifications

<b>Free air displacement</b>	60 Hz: 130 m <sup>3</sup> /hr, 76 cfm 50 Hz: 110 m <sup>3</sup> /hr, 65 cfm
<b>Pumping speed*</b>	60 Hz: 109 m <sup>3</sup> /hr, 64 cfm 50 Hz: 95 m <sup>3</sup> /hr, 56 cfm
<b>Ultimate partial pressure</b> (with gas ballast closed)	≤ 0.1 mbar (≤ 8 x 10 <sup>-2</sup> Torr)
<b>Ultimate total pressure</b> (with gas ballast open)	≤ 0.5 mbar (≤ 0.4 Torr)
<b>Power</b>	60 Hz: 3.0 kW (4.0 HP) 50 Hz: 2.2 kW (3.0 HP)
<b>Electrical motor characteristics</b>	IM B5 Δ230/Y400 V at 50 Hz IM B5 YY230/Y460 V at 60 Hz IM B5 Δ220/Y380 V at 60 Hz
<b>Revolutions number</b>	60 Hz: 1800 RPM 50 Hz: 1500 RPM
<b>Water vapor tolerance</b>	60 Hz/50 Hz: 40/30 mbar (30/23 Torr)
<b>Water vapor capacity</b>	60 Hz/50 Hz: 3/2.2 kg/h (3.3/2.4 qt/hr)
<b>Noise level**</b>	60 Hz/50 Hz: 68/66 dB(A)
<b>Inlet port</b>	1¼" gas / 1¼" NPT/ DN40KF using adapter flanges
<b>Exhaust port</b>	1¼" gas / 1¼" NPT
<b>Oil</b>	type MS-01, charge 3 liter (3.1 qt)
<b>Working ambient temperature range</b>	+12 +40 °C (+54 +105 F)
<b>Storage temperature</b>	-15 +70 °C (+5 +158 F)
<b>Dimensions</b>	60 Hz: 750 x 405 x 349 mm (20.5 x 15.9 x 13.7 in.) 50 Hz: 718 x 405 x 349 mm (28.3 x 15.9 x 13.7 in.)
<b>Weight</b>	
with 2.2 kW motor	85 kg (187 lbs)
with 3.0 kW motor	89 kg (196 lbs)
without motor	62 kg (137 lbs)



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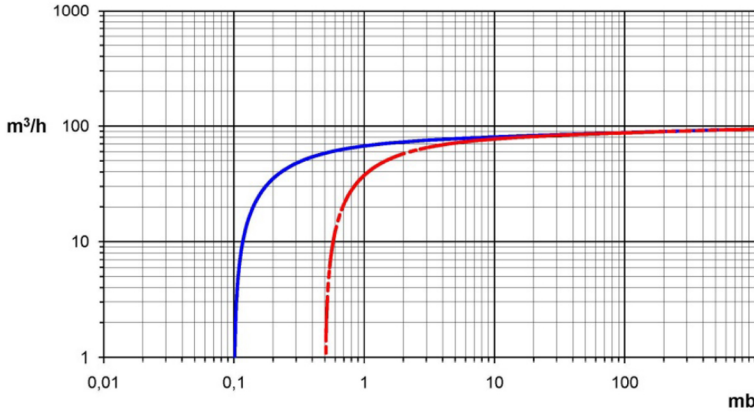
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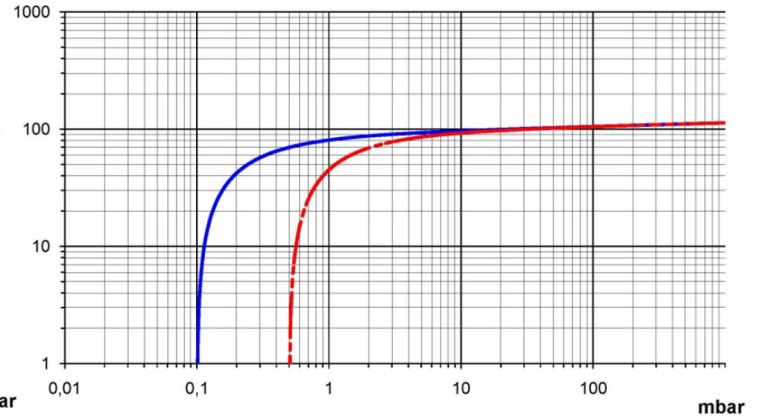
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## Agilent MS-101 Pumping Curves

### 50Hz

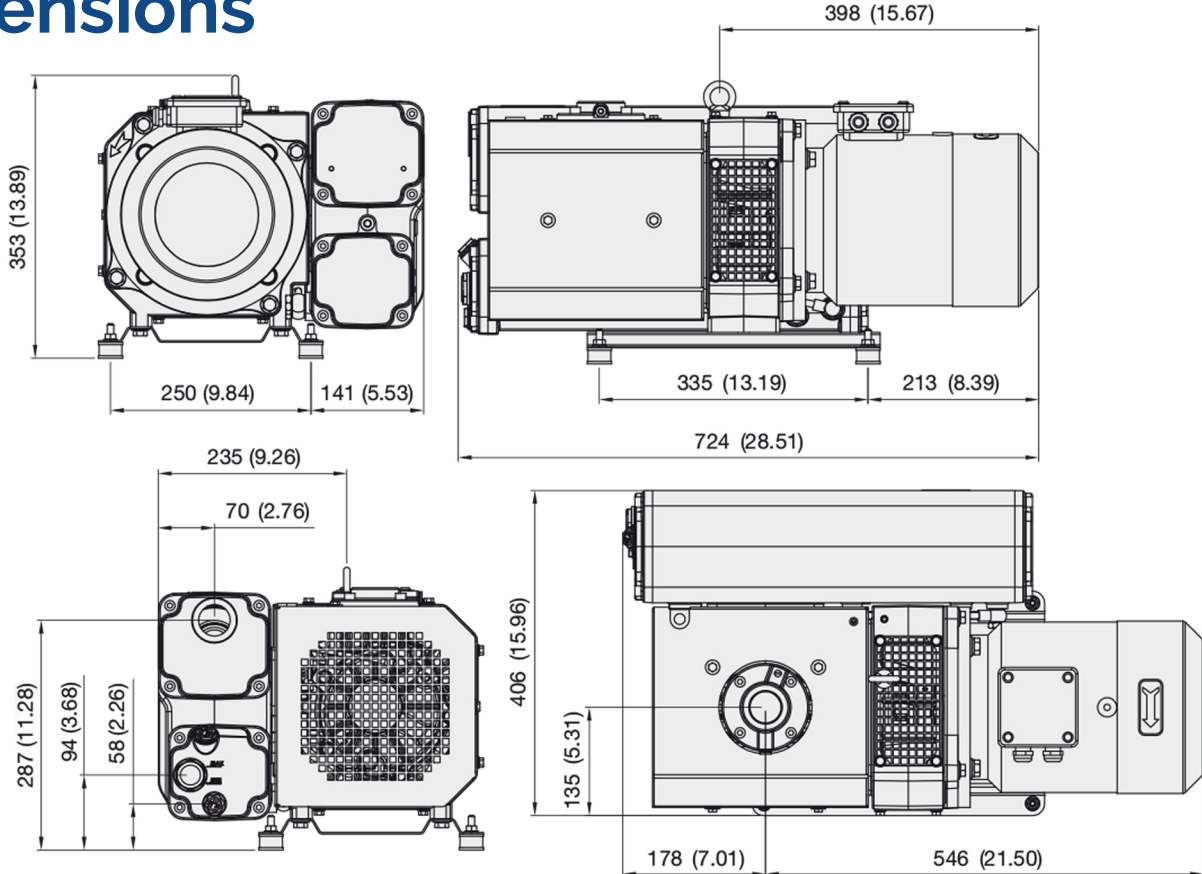


### 60Hz



(\_\_\_ without gas ballast valve) (----- with gas ballast)

## Dimensions



Dimensions: millimeters (inches)



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## Agilent MS-101 Features & Benefits

- shorter cycle times
- high pumping speed even at low pressures
- robust, easy to install, ideal for use in many applications
- compact size, smaller than pumps of equivalent pumping speed
- environmentally friendly
- gas ballast valve
- anti-suckback isolation inlet valve
- air cooled
- low noise & vibration

## Applications

- vacuum coating systems • metallurgy • heat treatment • helium leak detection • electron beam welding • LNG • industrial

