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Agilent MS-301
Technical Specifications

Free air displacement	60 Hz: 350 m^3/hr, 210 cfm 50 Hz: 290 m^3/hr, 170 cfm
Pumping speed*	60 Hz: 290 m^3/hr, 170 cfm 50 Hz: 250 m^3/hr, 150 cfm
Ultimate partial pressure (with gas ballast closed)	≤ 8 x 10^{-2} mbar (≤ 6 x 10^{-2} Torr)
Ultimate total pressure (with gas ballast open)	≤ 0.5 mbar (≤ 0.37 Torr)
Power	60 Hz: 7.5 kW (10.0 HP) 50 Hz: 5.5 kW (7.4 HP)
Electrical motor characteristics	IM B5 Δ230/Y400 V at 50 Hz, Y460 V at 60 Hz IM B5 Δ400/Y690 V at 50 Hz, Δ460 V at 60 Hz IM B5 Δ220/Y380 V at 60 Hz IM B5 YY230/Y460 V at 60 Hz
Revolutions number	60 Hz: 1750 RPM 50 Hz: 1450 RPM
Water vapor tolerance	60 Hz/50 Hz: 40/30 mbar (30/23 Torr)
Water vapor capacity	60 Hz/50 Hz: 7/5 kg/h (7.7/5.5 qt/hr)
Noise level**	60 Hz/50 Hz: 76/72 dB(A)
Inlet port	Flange DN 63 ISO-K / 2" gas / 2" NPT
Exhaust port	2" gas / 2" NPT
Oil	type MS-01, charge 7 liter (7.4 qt)
Working ambient temperature range	+12 +40 °C (+54 +105 F)
Storage temperature	-20 +70 °C (+4 +158 F)
Dimensions	60 Hz: 1015 x 550 x 460 mm (40.3 x 21.6 x 18.1 in.) 50 Hz: 986 x 550 x 460 mm (38.8 x 21.6 x 18.1 in.)
Weight	
with 5.5 kW motor	188 kg (414 lbs)
with 7.5 kW motor	192 kg (423 lbs)
without motor	141 kg (310 lbs)

* *According to PNEUROP 6602*
** *According to EN ISO 2151 (50/60 Hz)*

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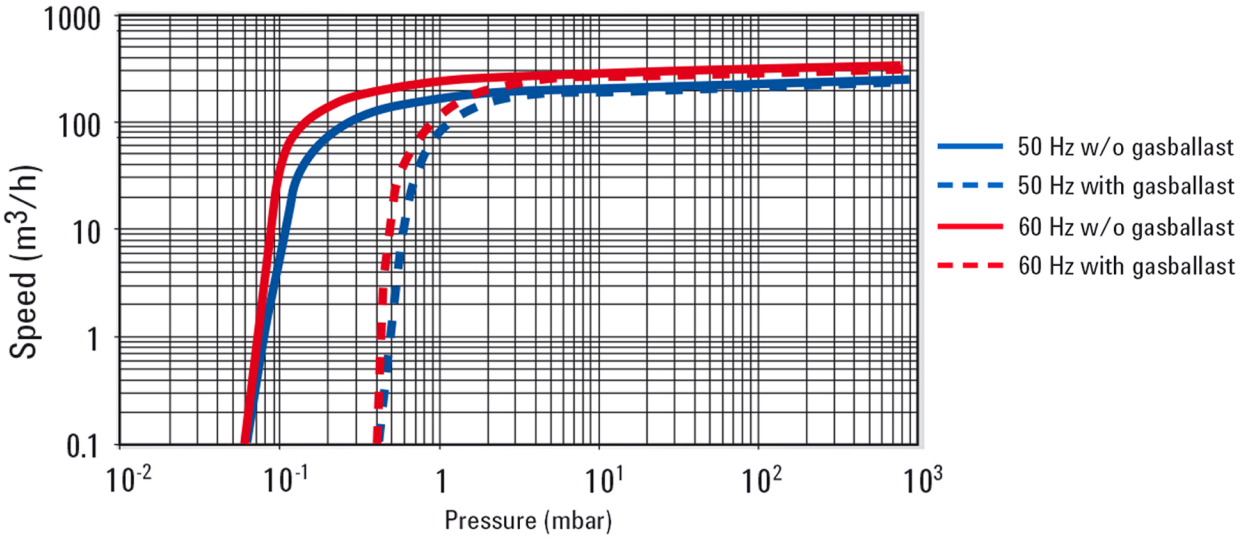
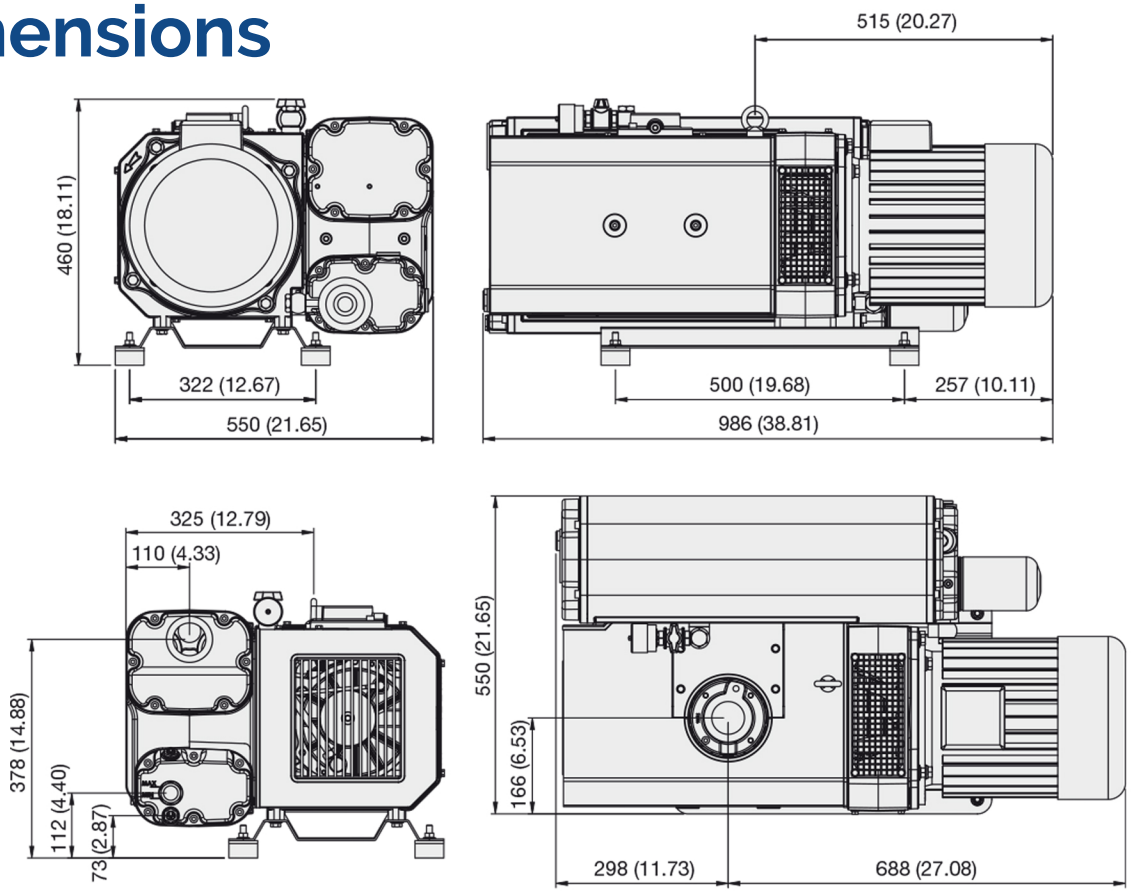
Pumping Curves



Dimensions



Dimensions: millimeters (inches)

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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