



# PROVAC

## SALES

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# Agilent MS-631

## Technical Specifications

<b>Free air displacement</b>	60 Hz: 790 m <sup>3</sup> /hr, 465 cfm 50 Hz: 660 m <sup>3</sup> /hr, 390 cfm
<b>Pumping speed*</b>	60 Hz: 680 m <sup>3</sup> /hr, 400 cfm 50 Hz: 590 m <sup>3</sup> /hr, 350 cfm
<b>Ultimate partial pressure</b> (with gas ballast closed)	≤ 8 x 10 <sup>-2</sup> mbar (≤ 6 x 10 <sup>-2</sup> Torr)
<b>Ultimate total pressure</b> (with gas ballast open)	≤ 0.5 mbar (≤ 0.37 Torr)
<b>Power</b>	60 Hz: 18.5 kW (24.8 HP) 50 Hz: 15 kW (20.1 HP)
<b>Electrical motor characteristics</b>	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
<b>Revolutions number</b>	60 Hz: 1200 RPM 50 Hz: 1000 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: 30/20 kg/h (33.1/22.0 qt/hr)
<b>Noise level**</b>	60 Hz/50 Hz: 73/71 dB(A)
<b>Inlet port</b>	Flange DN 100 ISO-K / 4" gas / 4" NPT
<b>Exhaust port</b>	3" gas / 3" NPT
<b>Oil</b>	type MS-01, charge 22 liter (23.2 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: 1480 x 823 x 683 mm (58.2 x 32.4 x 26.9 in.) 50 Hz: 1455 x 823 x 683 mm (57.3 x 32.4 x 26.9 in.)
<b>Weight</b>	
with 15.0 kW motor	582 kg (1283 lbs)
with 18.5 kW motor	612 kg (1349 lbs)
without motor	392 kg (864 lbs)

\* According to PNEUROP 6602

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



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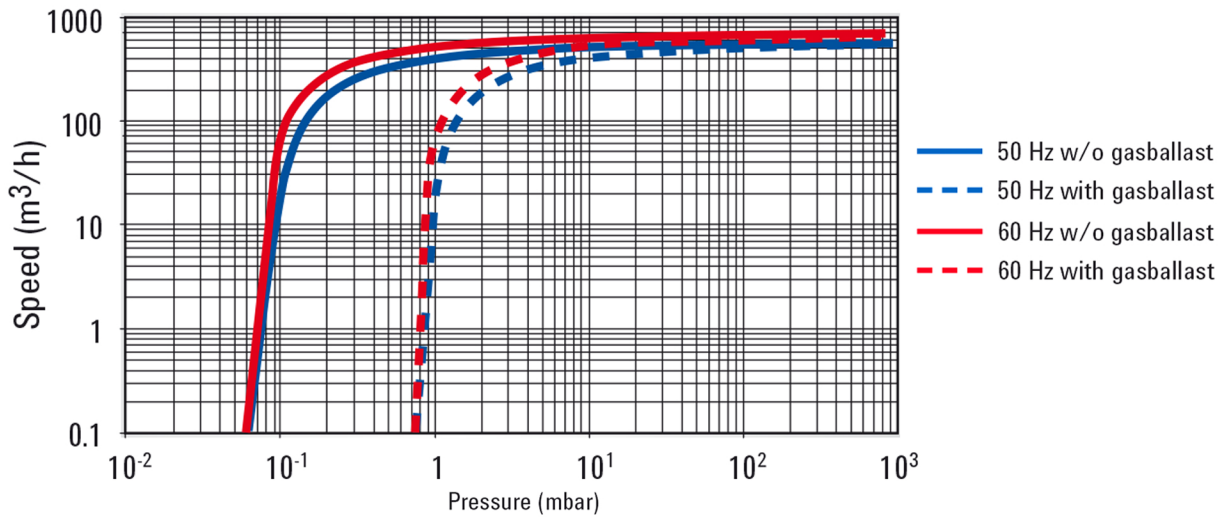
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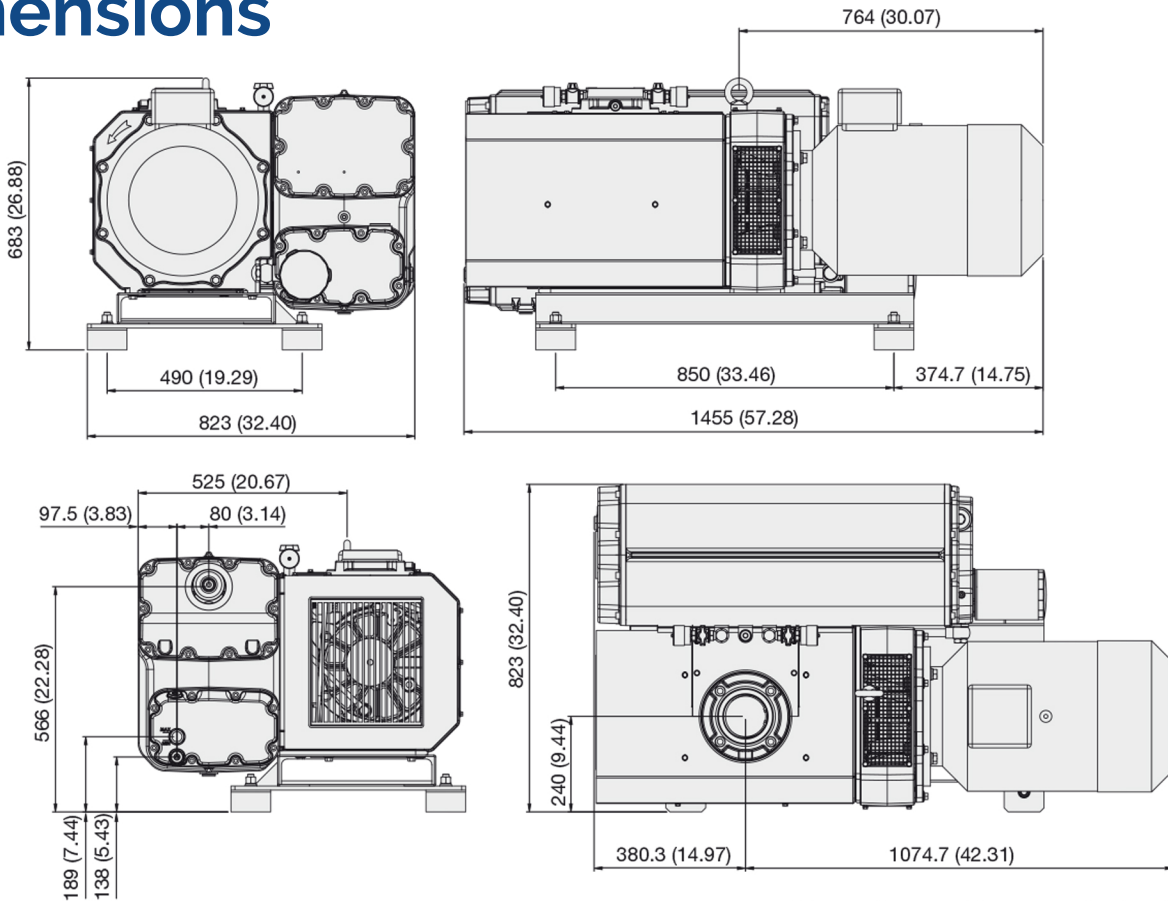
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## Agilent MS-631 Pumping Curves



## Dimensions



Dimensions: millimeters (inches)



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## Agilent MS-631 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

