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Atlas Copco GLS 250, 500

Technical Specifications

GLS 250

	50 Hz	60 Hz
Displacement	255 m^3h^{-1} / 150 ft^3min^{-1}	
Pumping speed	234 m^3h^{-1} / 138 ft^3min^{-1}	
Ultimate vacuum (total pressure) without gas ballast	<3.3 x 10^{-2} mbar / <2.5 x 10^{-2} Torr	
Ultimate vacuum (total pressure) with gas ballast	<2.6 x 10^{-2} mbar / <2 x 10^{-2} Torr	
Motor size	5.5 kW IEC (CE variant)	7.5 hp TEFC
Motor speed	1500/1800 rpm	
Inlet connection	3 inch ASA/ANSI flange	
Outlet connection	2 inch ASA/ANSI flange or 2 inch NPT	
Water inlet/outlet connection	½ inch NPT	
Recommended cooling flow @ 85°C/30°F	5.7 $lmin^{-1}$ / 1.5 $galmin^{-1}$	
Water vapor pumping rate	5 kg h^{-1} / 11 lb h^{-1}	
Oil capacity	15 litre / 4 gal	
Noise level	<77 dB(A)	
Weight	431 kg / 950 lbs	

GLS 500

	50 Hz	60 Hz
Displacement	510 m^3h^{-1} / 300 ft^3min^{-1}	
Pumping speed	442 m^3h^{-1} / 260 ft^3min^{-1}	
Ultimate vacuum (total pressure) without gas ballast	<3.3 x 10^{-2} mbar / <2.5 x 10^{-2} Torr	
Ultimate vacuum (total pressure) with gas ballast	<2.6 x 10^{-1} mbar / <2 x 10^{-1} Torr	
Motor size	11 kW IEC (CE variant)	10 hp TEFC
Motor speed	1500/1800 rpm	
Inlet connection	4 inch ASA/ANSI flange	
Outlet connection	3 inch ASA/ANSI flange or 3 inch NPT	
Water inlet/outlet connection	½ inch NPT	
Recommended cooling flow @ 85°C/30°F	7.6 $lmin^{-1}$ / 1.5 $galmin^{-1}$	
Water vapor pumping rate	10.45 kg h^{-1} / 23 lb h^{-1}	
Oil capacity	46 litre / 12 gal	
Noise level	<83 dB(A)	
Weight	794 kg / 1750 lbs	

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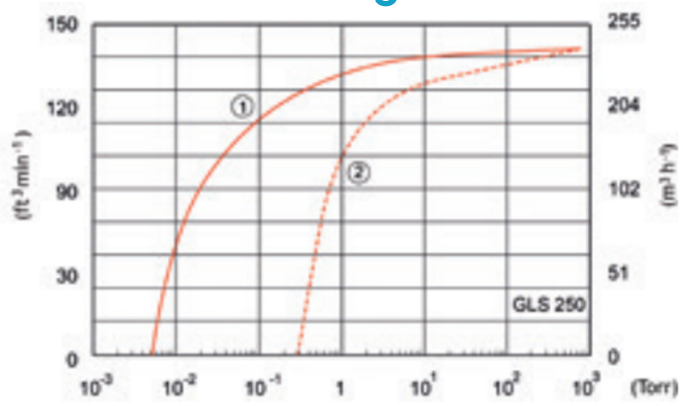
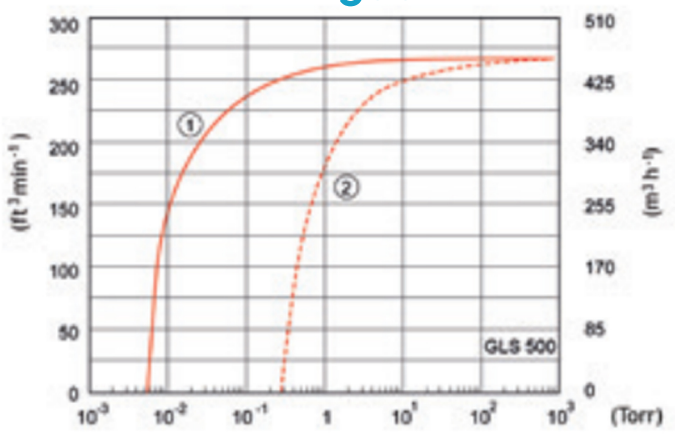
Pumping Curves

GLS 250



1: Without gas ballast.
2: With gas ballast open.

GLS 500



1: Without gas ballast.
2: With gas ballast open.

Dimensions

	Overall dimensions		
	D	W	H
	mm	mm	mm
GLS 250	665	581	1195
GLS 500	1032	651	1380
GLS 250/ZRS 500	1020	1065	1245
GLS 250/ZRS 1200	1140	1175	1245
GLS 500/ZRS 1200	1245	1250	1427
GLS 500/ZRS 2600	1315	1530	1427

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Features & Benefits

- robust cast & ductile iron construction provides rugged reliable operation
- maximum uptime with minimal moving parts & large clearance
- valve design virtually eliminates valve maintenance & noise
- space saving design saves up to 50% of floor space
- complete & self contained unit ready to install
- automatic lubrication system provides proper oil flow to bearings & sealing surfaces; prevents back flow
- controlled balancing reduces vibration to a minimum
- standard gas ballast
- low lifecycle costs
- rugged, reliable operation even in arduous & dirty applications

Applications

- chemical processing • heat treatment • vacuum melting • metallurgy
- leak detection • PET processing • large area glass coating • large chamber pumping requirements • pharmaceuticals • transformer drying & cable fluid conditioning • vacuum coating • automotive
- general applications