

Turbomolecular Pumps MAG W 600 with integrated controller

Technical Information 175.55.02



The new MAG W 600

Wide-range turbomolecular pump with active magnetic suspension and integrated controller.



MAG W 600 - an additional member of the new wide-range turbomolecular pump series

Features at a Glance

- New 5-axis magnetic bearing and drive system, combining highest reliability and efficiency with low vibration and noise level
- Robust system performance, providing high pumping speeds and compression ratios for all gases
- Integrated state-of-the-art converter for bearing and drive system, eliminating the need for a conventional bench-top controller solution and interconnecting cables
- Innovative communication concept by industrial communication modules to meet current standards and future trends for easy integration into customer equipment
- Easy system integration due to compact, space-saving design

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As an expert in high vacuum technology, Oerlikon Leybold Vacuum has a long-term experience in the development and production of turbomolecular pumps. The products are designed to meet the needs of the analytical and research market as well as the semiconductor and coating industry.

Customer Benefits

As an additional member of the new design platform of wide-range turbomolecular pumps with integrated electronics, the 5-axis magnetically levitated MAG W 600 fulfills customer expectations:

- Highest pumping speed at minimum footprint
- Setting new benchmarks on maintenance-free systems
- Suitable for applications like analytical, thin film deposition or research and development, for example
- Flexibility due to the modular design concept. Alternatively, the controller will be available as a bench-top unit (as from August 2007)

We have an installed base of more than 100,000 units in the field. More than 30 years experience with MAGLEV pumps in these industries and close collaboration with major OEMs positioned Oerlikon Leybold Vacuum as a leader for Vacuum Solutions.

Konstruktionsmerkmale

- Installation in any orientation
- DN 160 or 200 ISO-K and CF high vacuum connection
- DN 25 KF with clamp shoe fore-vacuum connection
- DN 16 KF clamp shoe purge / vent port
- Optional water or air cooling
- CE and RoHS conform; UL fulfilled
- Two slots for industrial communication modules
 - Standard 9-pin 24 V SPS(PLC)-IO
 - Optional interfaces possible: Ethernet, ProfiBus, DeviceNet, RS232 / RS485

Technical Data

		MAG W 600	MAG W 700
Inlet flange	DN	160	200
Pumping speed			
N ₂	l/s	600	on request
H ₂	l/s	380	on request
He	l/s	540	on request
Compression			
N ₂			2,0 x 10 ⁹
H ₂			3,2 x 10 ³
He			9,2 x 10 ⁴
Max. fore-vacuum pressure	mbar		6
Weight	kg		17

Ordering Information

		MAG W 600 iP*	MAG W 700 iP*
High vacuum flange size		DN 160	DN 200
- ISO-K	P/N	410600V0505	410700V0505
- CF	P/N	410600V0506	410700V0506
Power supply TURBO.POWER 500		410300V0221	
Water cooling device		410600V0101	
Air cooling device		410600V0102	
DC cable (connection of power supply and controller), 5 m		410300V2005	
Additional cables and accessories		upon request	

* iP = integrated converter and purge/vent port