Leybold

TURBOVAC MAG 2807/3207 iS

Magnetically Levitated Turbomolecular Pumps



Bring versatility to coating, industry and research

The **TURBOVAC MAG 2807 iS and 3207 iS** brings 3,000 l/s class pumping speeds to our range of turbomolecular MAG pumps. Built on decades of expertise, our market-proven magnetically levitated turbomolecular technology is the trusted choice for many across industry and science.

Engineered to deliver competitive levels of performance **TURBOVAC MAG iS** pumps deploy a 5-axis active magnetic bearing system. This delivers hydrocarbon-free operation, low levels of noise and vibration, and reduced wear-and-tear requiring minimal maintenance. But what really sets the **TURBOVAC MAG 2807 iS and 3207 iS** apart is their versatility. Highly compact, lightweight, and mountable in any orientation, ideal for challenging processes where space efficiency is key.



At a glance

- Compact lightweight and mountable in any orientation: ideal for space-constrained environments
- Minimal maintenance: up to 10 years service-free operation thanks to reduced wear and tear
- Ultra-clean operation: hydrocarbon-free
- Extended portfolio: our TURBOVAC MAG range now extends up to the 3,000 l/s class

A wide range of applications

This makes them ideal for operations and processes that are highly sensitive to vibrations and contaminants. TURBOVAC MAG 2807 iS and 3207 iS pumps will typically be found in coating, industrial and R&D environments.

Seamless performance, perfectly designed

Compact and efficient design

Our 3,000 l/s TURBOVAC MAG iS series pumps are one of the lightest and most compact on the market, offering both space-saving advantages and ease of integration into existing systems.



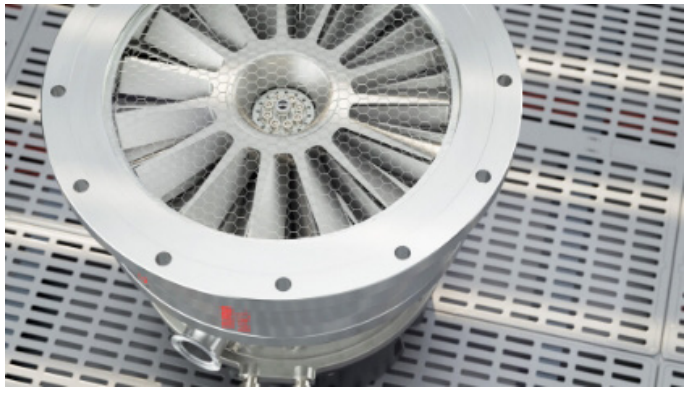


Reliable in harsh environments

The TURBOVAC MAG iS series is resilient to vibration, mechanical shock, and varying environmental factors such as dust and humidity.

Superior performance

Engineered for peak efficiency, this series of magnetic turbo pumps achieve high pumping speeds and gas throughput for faster pump down times improving equipment cycle processes.





Minimal vibration technology

Utilizing advanced magnetic levitation, these pumps operate with low levels of vibration, preserving the integrity of delicate processes. This is especially beneficial for applications where even the slightest vibration can compromise results, such as in scientific research.

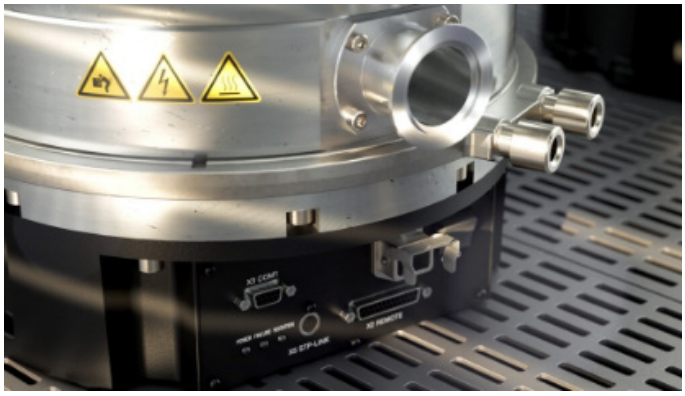


Mountable in any orientation

Being able to deploy your pump/s in multiple positions on your vacuum system gives projects a much greater degree of flexibility. This makes them ideal for environments where space is limited or where the pump needs to be housed inside a larger system.

Long-term cost efficiency

Up to 80,000 hours maintenance-free, these pumps can offer a low total cost of ownership. The deployment of magnetic bearings eliminates the need for frequent maintenance intervals, allowing for longer operational uptime and minimal service downtime.

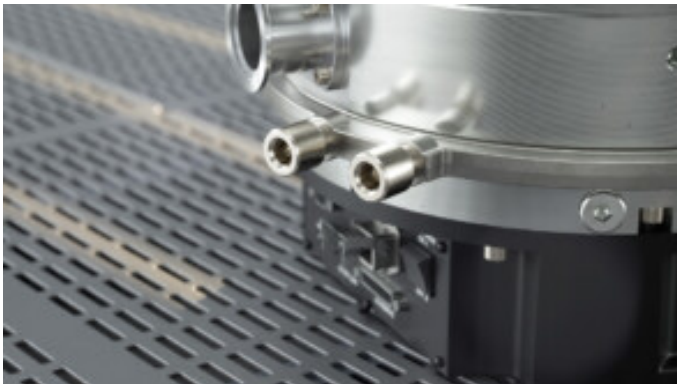


Simple functionality, advanced results



High vacuum flange

Connects your vacuum pump to the chamber, available in flange sizes of DN250 and DN320



Efficient cooling of your pump enabled via inlet/outlet ports

Cooling water connections (zoom, pop-up top left)



Fore-vacuum flange

Connects to the fore-vacuum pump via DN 40 KF



Purge gas port

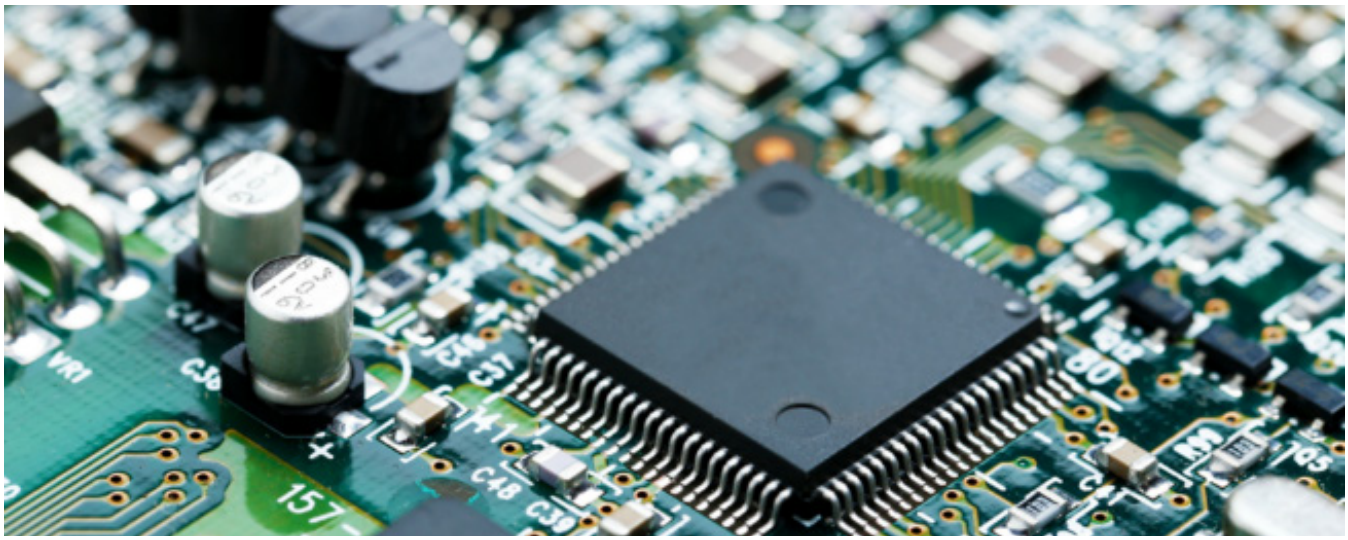
Protects the bearing against harmful process media



Integrated controller

- I/O interface as standard and optional Profibus or RS485/RS232
- STP-link (Service To Pump) for control, monitoring, parameter setting, data logging, etc
- On/off switch and socket for local power control

Markets and applications



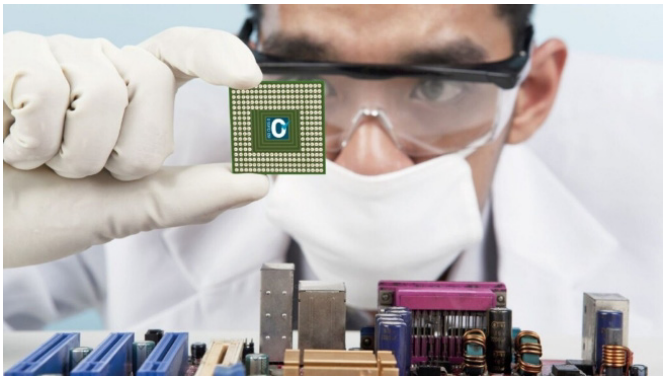
Coating applications

Whether applying thin-film coatings for architectural glass, web coating, hard coating of tools, aerospace component coating, or coating of medical devices, these pumps ensure that the coating process is free of contamination and impurities.

Industrial applications

In industrial settings where robust and reliable vacuum performance is a must, magnetically levitated turbomolecular pumps offer unparalleled durability and ease of use. They are particularly well-suited for processes such as welding, furnace applications, and other processes that demand consistent high-vacuum performance.





Scientific research

For laboratories and research institutions engaged in cutting-edge experimentation, our TURBOVAC MAG iS pumps provide the precision and reliability needed to maintain ideal vacuum conditions in particle accelerators, space simulation chambers, and other sophisticated research equipment.

Why choose Leybold Vacuum?

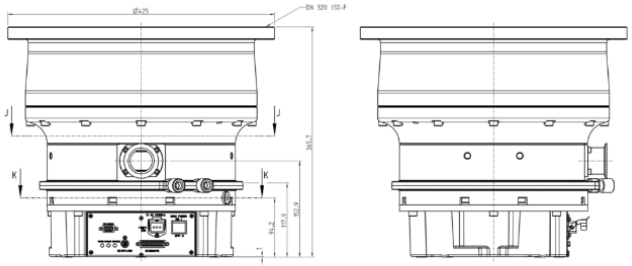
Choosing Leybold means partnering with a company that brings decades of experience and technical expertise to the table. With a long and established history in the production and design of turbomolecular technology and an extensive installation base. We offer a full line product range spanning all modern vacuum technologies. We pride ourselves on our ability to forge strong, lasting partnerships with our customers, providing tailored solutions and support to meet the unique demands of wide spanning applications. Our commitment to innovation and quality ensures that you receive the best products and services in the industry.



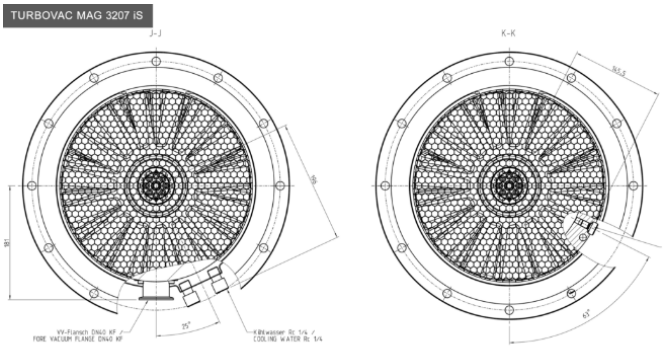
Dimensional Drawings

TURBOVAC MAG 3207 iS

TURBOVAC MAG 3207 iS

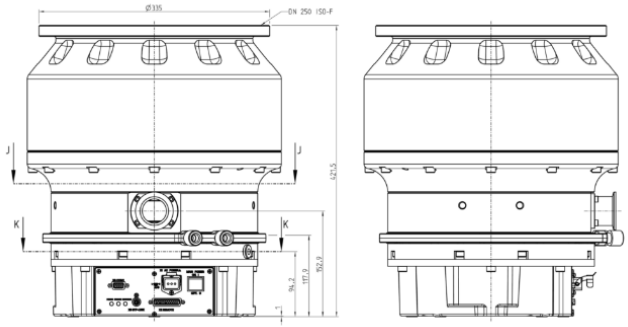


TURBOVAC MAG 3207 iS

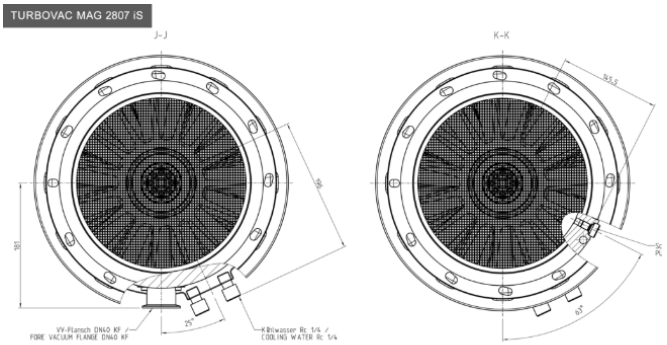


TURBOVAC MAG 2807 iS

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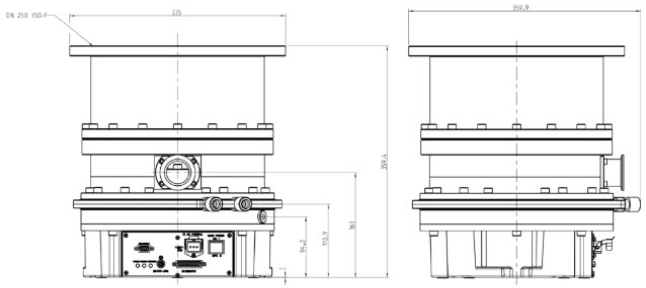


TURBOVAC MAG 2807 iS

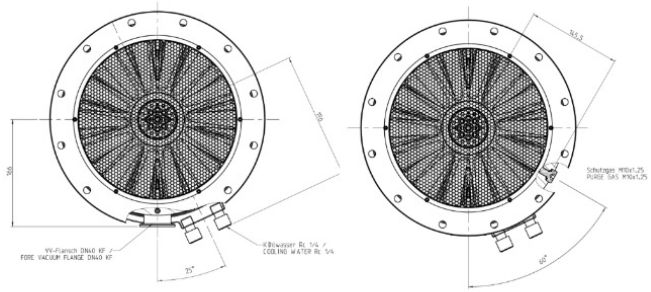


TURBOVAC MAG 2207 iS

TURBOVAC MAG 2207 iS



TURBOVAC MAG 2207 iS



Technical specifications

	Unit	MAG 2207 iS	MAG 2807 iS	MAG 3207 iS
High vacuum flange	DN	250 ISO-F	250 ISO-F (CF)	320 ISO-F
Pumping speed (PNEUROP)				
N2	l*s-1	2200	2350	3200
Ar		2000	2150	3000
H2		1030	1850	1950
He		1800	2500	2750
Maximum compression				
Ar		≥ 1x10^7		
H2		2,5x10^2	1x10^3	1x10^3
Maximum gas throughput *1*2				
Ar	mbar*l*s-1	16	26	
H2		54	33	
Maximum forevacuum pressure	mbar	1.1	1.4	
Nominal/Maximum speed	rpm	36480	31800	
Minimum speed		18240		
Backup rotational speed*3		Approximately 6000		
Ultimate pressure	mbar	<1*10-8 (<5*10-10)		
Maximum bake-out temperature	°C	120		
Run-up time	min	≤ 8	≤ 10	
Fore vacuum flange	DN	40 KF		
Cooling connection		Rc 1/4 (Female)		
Weight, approximate	kg	45	59 (79)	57
Noise level	dB	< 55		

Ordering Information

Pumps

Part number	Description
412800V7704	TURBOVAC MAG 2807 iS – DN 250 ISO-F; ProfiBus
412800V7724	TURBOVAC MAG 2807 iS – DN 250 ISO-F; RS485
413200V7704	TURBOVAC MAG 3207 iS – DN 320 ISO-F; ProfiBus
413200V7724	TURBOVAC MAG 3207 iS – DN 320 ISO-F; RS485
412800V7706	TURBOVAC MAG 2807 iS – DN 250 CF; Profibus
412800V7726	TURBOVAC MAG 2807 iS – DN 250 CF; RS485
412200V7724	MAG 2207 iS – DN 250 ISO-F; ProfiBus
412200V7724	MAG 2207 iS – DN 250 ISO-F; RS485

Accessories

Part number	Description
412207V01	Purge adapter set
Set of bolts, nuts and washers for ISO-F flange	
400153V0023	Set M10x35, 12.9 GOMET500
400153V0010	Set M10 x 35 12.9 – coated
400153V0022	Set M10x50, 12.9 GOMET 500
400153V0012	Set M10 x 50 12.9 – coated
400153V0019	Set M10x50 (Stud bolts), 12.9
400153V0020	Set M12x45, 12.9
400153V0021	Set M12x60, 12.9
400153V0016	SET Brad screws M8 X 40 10.9 – COATED- standard CF
400153V0017	SET OF SCREWS M8x60 10.9 – GEOMET 500
400153V0018	SET STUD SCREWS M8x60 10.9 – GEOMET 500

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Pioneering products. Passionately applied.

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