



ATH 2303 M, DN 250 ISO-F, OBC V4 integrated drive electronics, Remote, Water cooled, Non- heated

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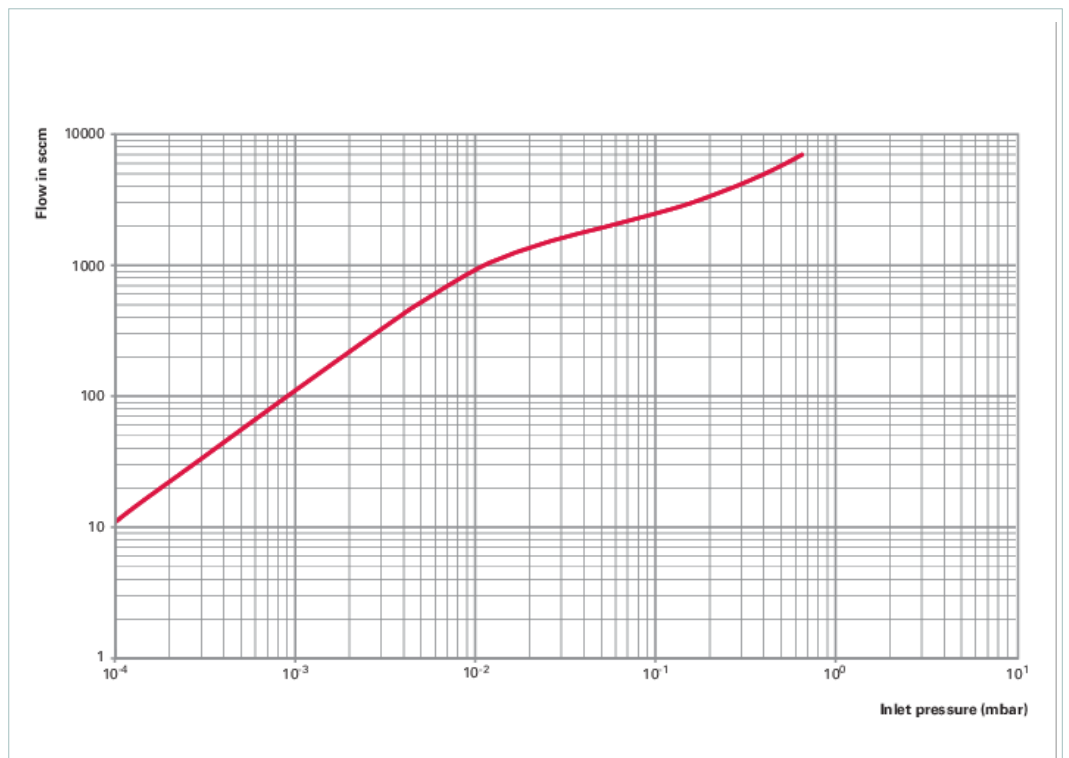
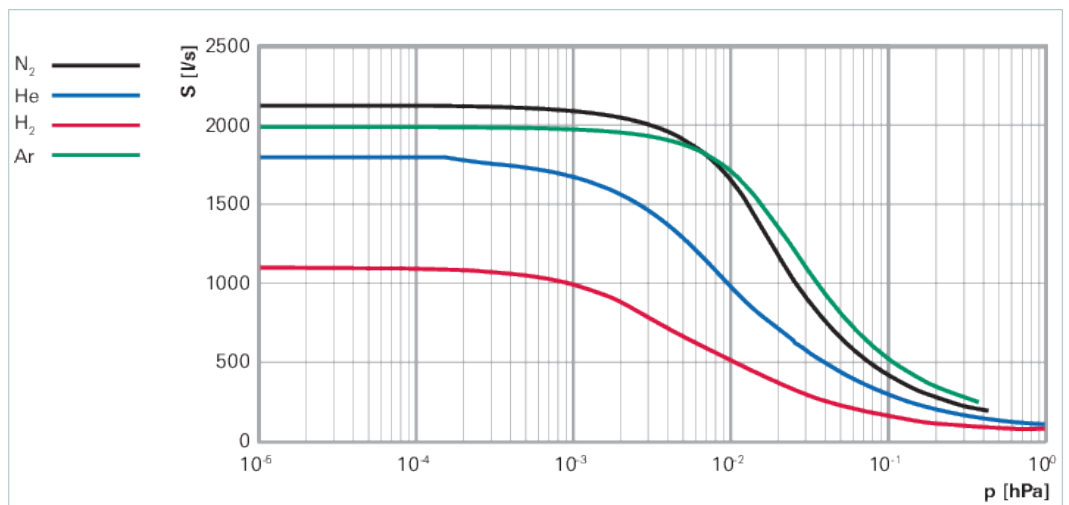




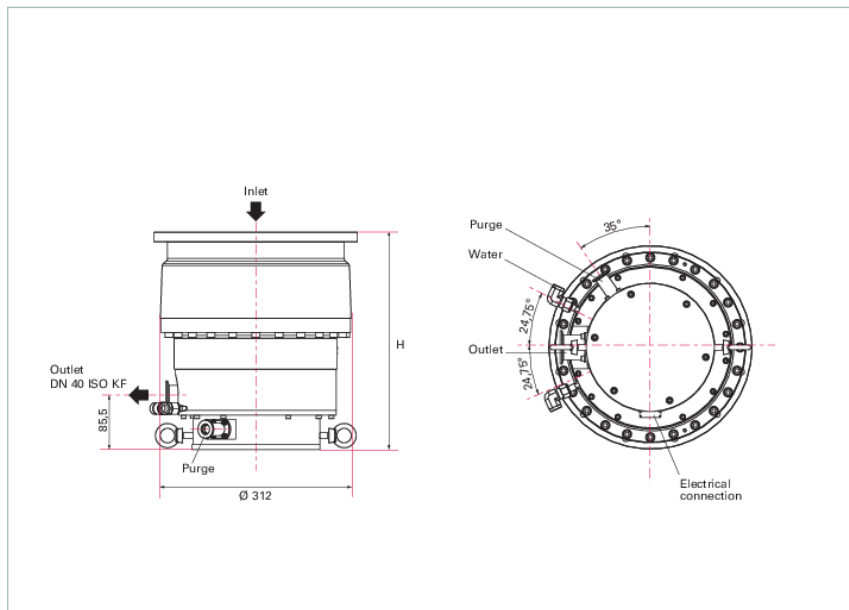
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- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N₂
- DN 250 ISO-F inlet flange
- Operation with OBC V4 integrated drive electronics
- Installation in any orientation
- Remote, Water cooled, Non-heated
- CE marked and ROHS compliant



Dimensions



H 343.5 mm

Technical Data

ATH 2303 M, DN 250 ISO-F, OBC V4 integrated drive electronics, Remote, Water cooled, Non-heated

Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H ₂	$> 1 \cdot 10^3$
Compression ratio for He	$> 3 \cdot 10^4$
Compression ratio for N ₂	$> 1 \cdot 10^8$
Cooling method	Water
Cooling water consumption	1 l/m
Cooling water temperature	15-25 °C
Cooling water temperature max.	40 °C 104 °F 313 K
Electronic drive unit	Integrated drive electronics
Flange (in)	DN 250 ISO-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N ₂	2.9 hPa 2.17 Torr 2.9 mbar
Gas throughput for Ar	25.4 hPa l/s 19.05 Torr l/s 25.4 mbar l/s
Gas throughput for H ₂	> 67.6 hPa l/s > 50.7 Torr l/s > 67.6 mbar l/s
Gas throughput for He	> 67.6 hPa l/s > 50.7 Torr l/s > 67.6 mbar l/s
Gas throughput for N ₂	67.6 hPa l/s 50.7 Torr l/s 67.6 mbar l/s
Integrated power supply	YES
Interfaces	Remote
Mounting orientation	in any orientation
Operating voltage	200-240 V AC, 50/60 Hz
Power consumption at ultimate pressure	350 W
Protection category	IP 54
Pumping speed for Ar	2000 l/s
Pumping speed for H ₂	1100 l/s
Pumping speed for He	1800 l/s
Pumping speed for N ₂	2150 l/s
Pumping speed range	2300 l/s
Rotation speed $\pm 2\%$	31,000 rpm 31,000 min ⁻¹
Run-up time	< 8 min
Ultimate pressure	$< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar
Weight	68 kg 149.91 lb

Order number	
ATH 2303 M	TMBBA662005A

Accessories	
Electronic controllers	
Hand Held Remote (HHR) with cable	114461
Inlet screen	
Aluminum inlet screen kit for DN250	111640
Stainless inlet screen kit for DN250 - M 5	108762
Mounting kits	
Mounting bolts for ISO-F (for ATH 2300 M, DN 250; ATH 2800 M, DN 250) with centering ring	110034
Mounting bolts for ISO-F (for ATH 500 M, DN160; ATH 1600 M, DN 200/250; ATH 2300 M, ATH 2800 M, ATH 2804 M, DN 250) without centering ring	110676S
Venting valves and other accessories	
Air venting valve (for OBC V4 and Magpower)	114280
Dust filter	106229
Purge valve 50 sccm	111921S
Water inlet valve 24 V DC	108668

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