



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

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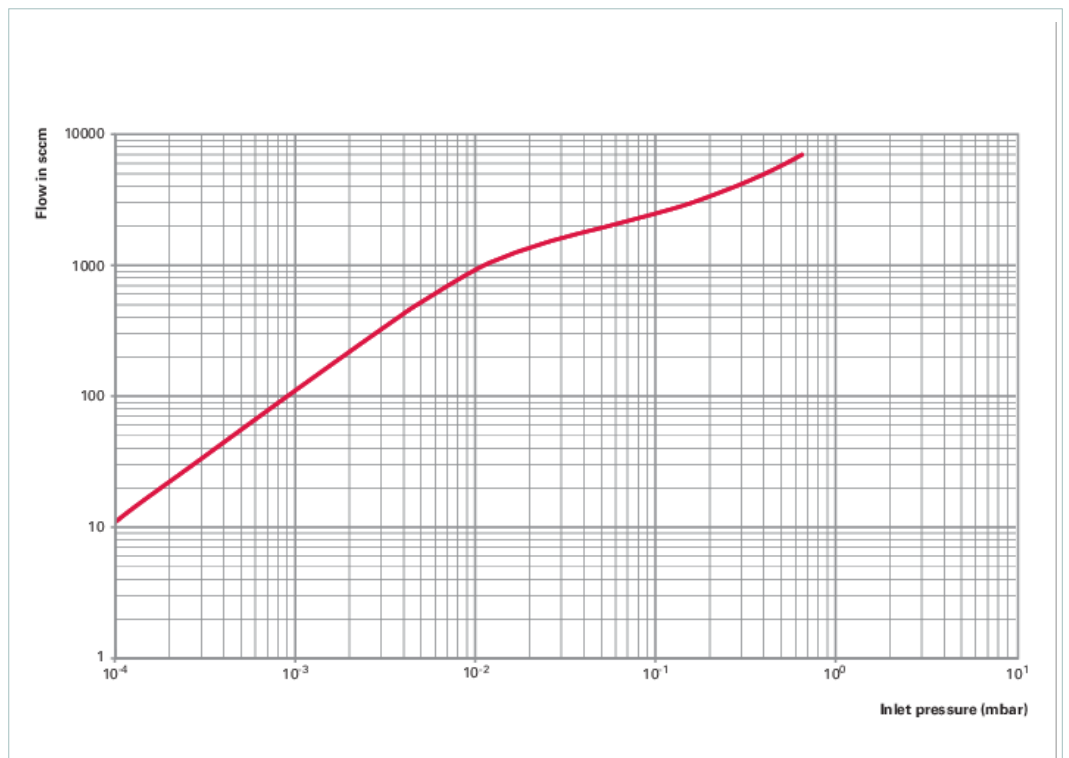
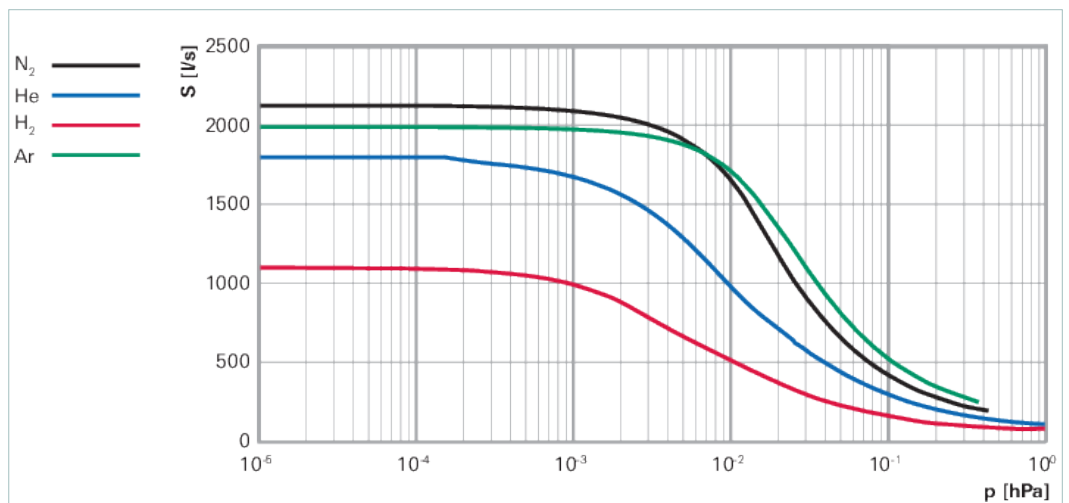




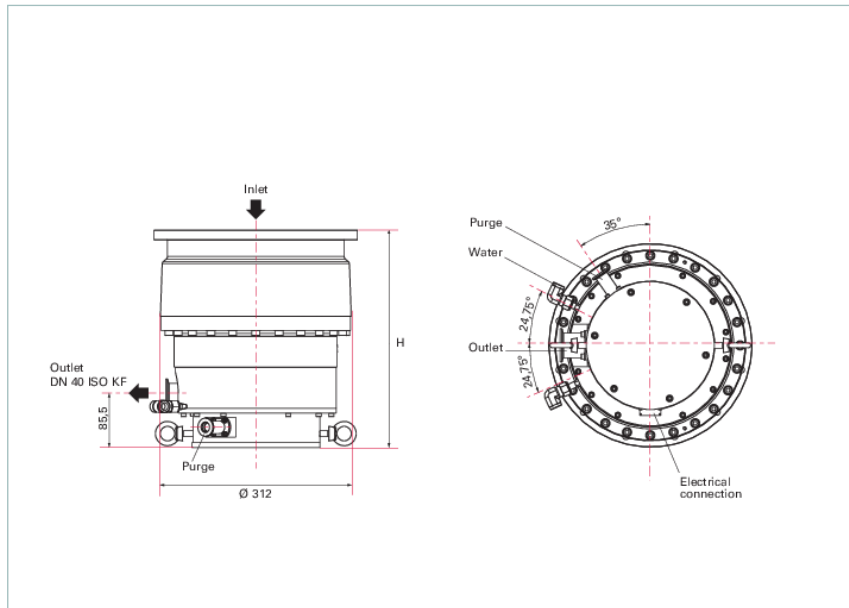
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- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N₂
- DN 250 CF-F inlet flange
- Operation with OBC V4 integrated drive electronics
- Installation in any orientation
- Remote, Water cooled, Non-heated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



Dimensions



H 398.1 mm

Technical Data

ATH 2303 M, DN 250 CF-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 CF-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	TMBBA622005A

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 CF-F (for ATH 500 M, DN100/160; ATH 2300 M, DN 200/250)	118690
Rotatable flange	
Rotatable flange DN250 CF-F	303133
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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