



ATH 2303 M, DN 250 ISO-F, External drive electronics, Water cooled, Non-heated

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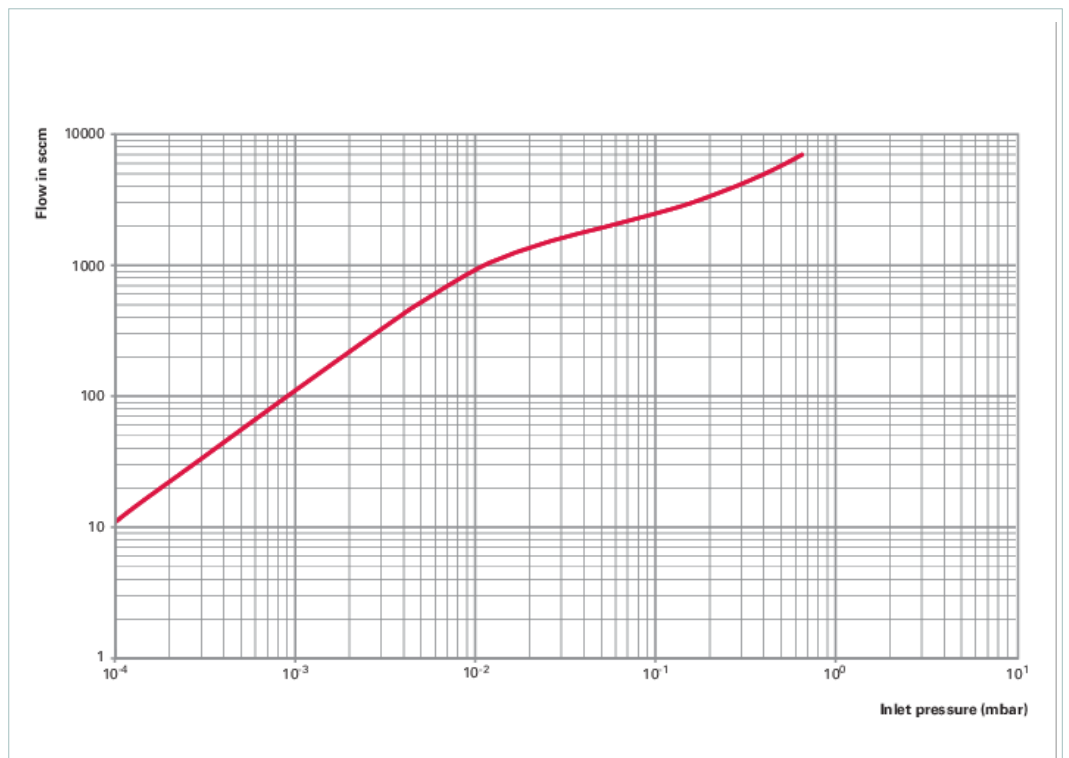
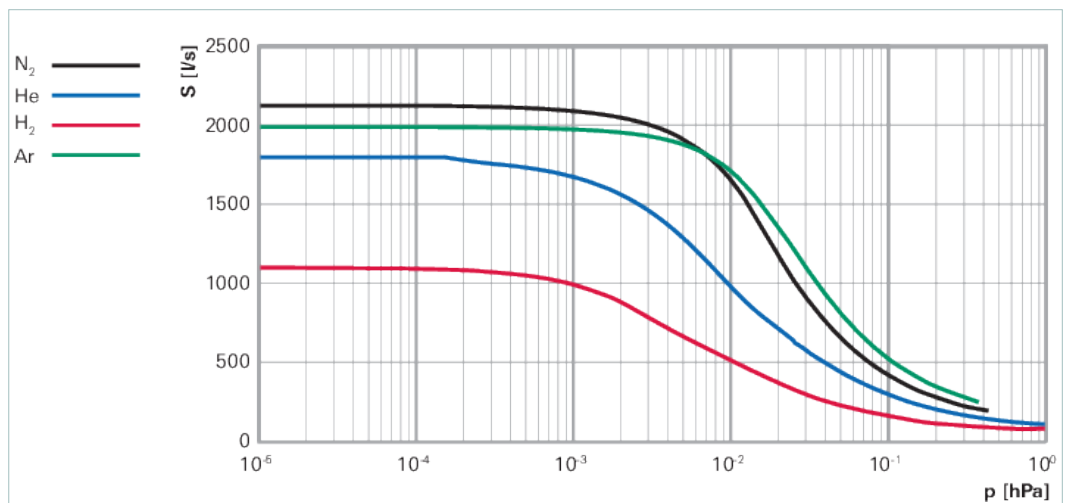




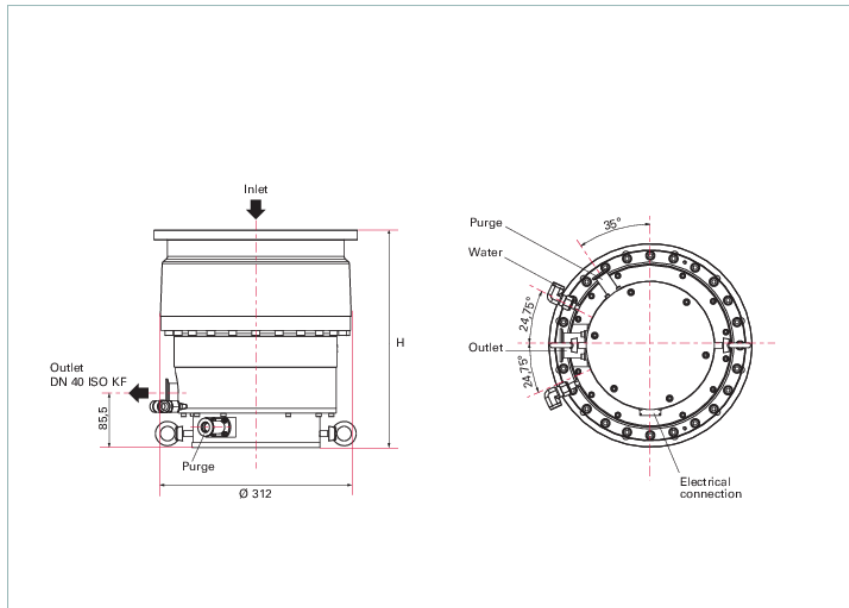
Similar Image

ATH 2303 M, DN 250 ISO-F, External drive electronics, Water cooled, Non-heated

- 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 Magpower external drive electronics
- Installation in any orientation
- Water cooled, Non-heated
- CE marked and ROHS compliant



Dimensions



H 343.5 mm

Technical Data	ATH 2303 M, DN 250 ISO-F, External drive electronics, 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	External 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
Interfaces	Via External drive electronics
Mounting orientation	in any orientation
Operating voltage	200-240 V AC, 50/60 Hz
Power consumption at ultimate pressure	350 W
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
Separate electronic drive unit	YES
Ultimate pressure	$< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar
Weight	60 kg 132.28 lb

Order number	
ATH 2303 M	TMB206620000

Accessories	
Electronic controllers	
Magpower controller	120917
Inlet screen	
Aluminum inlet screen kit for DN250	111640
Stainless inlet screen kit for DN250 - M 5	108762
Interconnecting cable (pump to Magpower external drive electronics)	
Interconnecting cable (pump to Magpower external drive electronics), L = 1.0 m	A215300-010-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 10.0 m	A215300-100-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 20.0 m	A215300-200-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 3.5 m	A215300-035-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 5.0 m	A215300-050-C6-D
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
Power cord	
Power cord 2.5 m Europe standard 200 - 240 V AC	A328405
Power cord 2.5 m US standard 200 - 240 V AC	A331729
Valve cable (external drive electronics to venting valve)	
Valve cable (Magpower external drive electronics to venting valve), L = 1.0 m	A462403-010
Valve cable (Magpower external drive electronics to venting valve), L = 10.0 m	A462403-100
Valve cable (Magpower external drive electronics to venting valve), L = 20.0 m	A462403-200
Valve cable (Magpower external drive electronics to venting valve), L = 3.5 m	A462403-035
Valve cable (Magpower external drive electronics to venting valve), L = 5.0 m	A462403-050
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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