



ATP 2300 M, DN 250 CF-F, with integrated drive electronics, water-cooled, non-heated

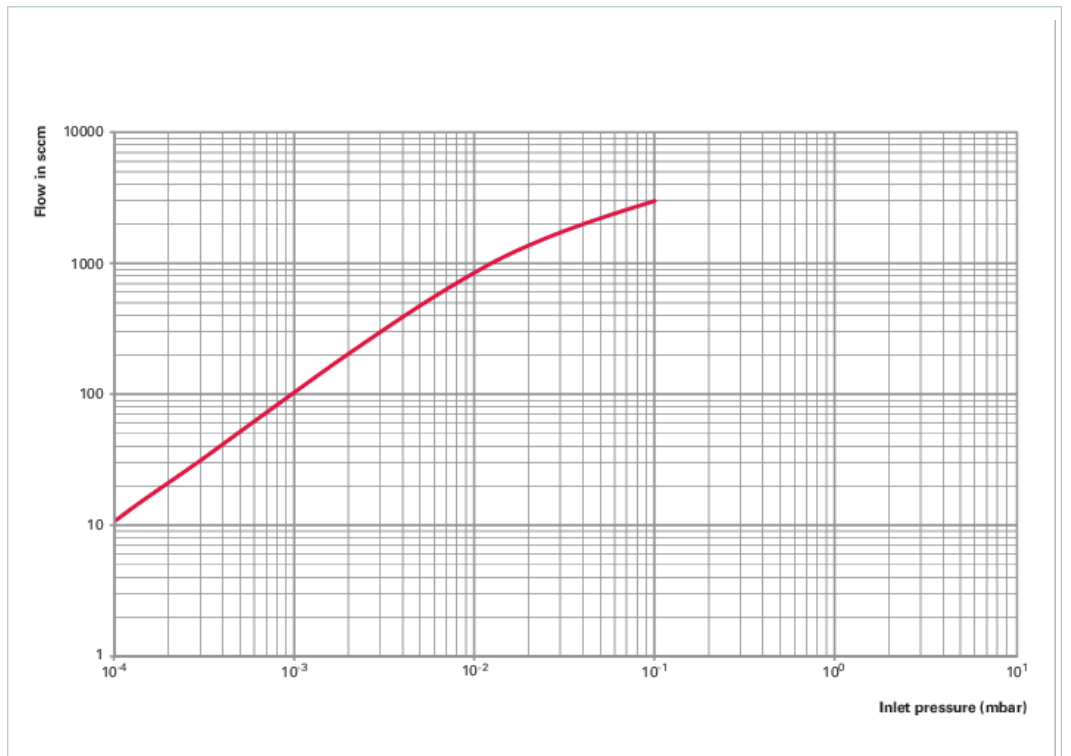
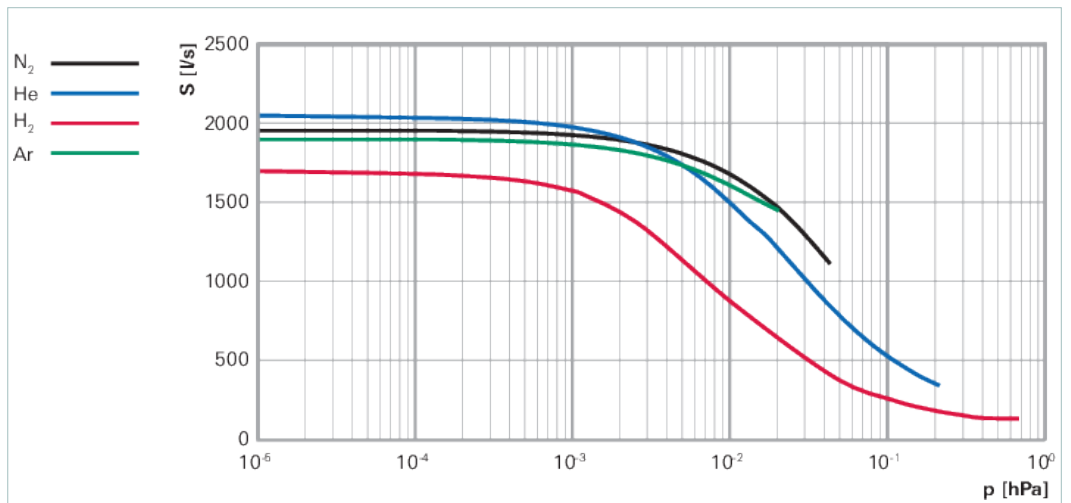
ATP 2300 M, DN 250 CF-F, External drive electronics, Water
cooled, Non-heated



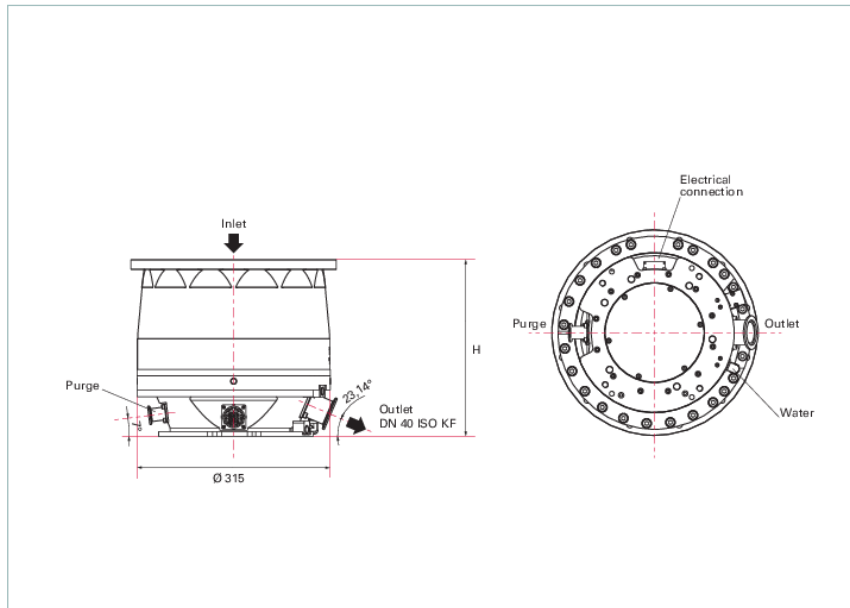
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ATP 2300 M, DN 250 CF-F, with integrated drive electronics, water-cooled, non-heated

- 5-axis magnetically levitated pure turbopump (no drag stage) with a pumping speed of up to 2050 l/s for He
- DN 250 CF-F inlet flange
- Operation with Magpower external drive electronics
- Installation in any orientation
- Water cooled, Non-heated
- CE marked and ROHS compliant



Dimensions



H 333.2 mm

Technical Data	ATP 2300 M, DN 250 CF-F, with integrated drive electronics, water-cooled, non-heated
Bearing	Magnet
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H ₂	$> 7 \cdot 10^3$
Compression ratio for He	$> 1 \cdot 10^5$
Compression ratio for N ₂	$> 1 \cdot 10^8$
Connection flange (in)	DN 250 CF-F
Connection flange (out)	DN 40 ISO-KF
Cooling method	Water
Cooling water flow	60 l/h
Cooling water flow, max.	60 l/h
Cooling water flow, min.	60 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Electronic drive unit	External drive electronics
Final pressure	$< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar
Final pressure without gas ballast	$< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar
Fore-vacuum max. for N ₂	2.1 hPa 1.57 Torr 2.1 mbar
Gas throughput for Ar	15.2 hPa·l/s
Gas throughput for H ₂	> 50.7 hPa·l/s
Gas throughput for He	> 50.7 hPa·l/s
Gas throughput for N ₂	37.2 hPa·l/s
I/O interfaces	Via External drive electronics
Mounting orientation	Arbitrary
Power consumption at final pressure	350 W
Power consumption max.	1000 W
Pumping speed for Ar	1900 l/s
Pumping speed for H ₂	1700 l/s
Pumping speed for He	2050 l/s
Pumping speed for N ₂	1950 l/s
Rotation speed $\pm 2\%$	31,000 rpm 31,000 min ⁻¹
Run-up time	< 8 min
Separate electronic drive unit	YES
Sound pressure level	≤ 46 dB(A)
Weight	52 kg 114.64 lb

Order number	
ATP 2300 M	T2622100

Accessories	
Cables Connection cables	
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 = 3.5 m	A215300-035-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 5.0 m	A215300-050-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
Cables Mains cables / Power cords	
Mains cable 2.5 m Europe standard 200–240 V AC	A328405
Mains Cable 2.5 m US standard 200–240 V AC	A331729
Cables Valve cables (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 = 3.5 m	A462403-035
Valve cable (Magpower external drive electronics to venting valve), L = 5.0 m	A462403-050
Valve cable (Magpower external drive electronics to venting valve), L = 10.0 m	A462403-100
Valve cable (external drive electronics to venting valve), L= 20.0 m	A462403-200
Control Devices External drive units	
Magpower controller	128733
Flanges/Ports Rotatable flanges	
Rotatable flange DN 250 CF-F	303133
Mounting Mounting kits for ATH-M <verteilen>	
Screw set for CF-F (for ATH 500 M, DN100/160 ATH 2300 M, DN 200/250)	118690
Protection Dust separators/Inlet particle filters	
Dust filter	106229
Protection Inlet screens	
Stainless inlet filter for DN 250 - M 5	108762
Aluminum inlet filter for DN 250	111640
Stainless steel and FKM	
Connection kit for mounting pumps, DN 40 ISO-KF	120SWS040-1000
Valves Sealing gas valves, shielded (normally closed)	
Sealing gas valve, 50 sccm	111921S
Valves Water inlet valves	
Water inlet valve 24 V DC	108668
Venting Venting valves (normally closed)	
Air venting valve (for OBC V4 and Magpower)	114280

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