



ATH 2300 MT, DN 250 CF-F, External drive electronics, Water cooled, Heated

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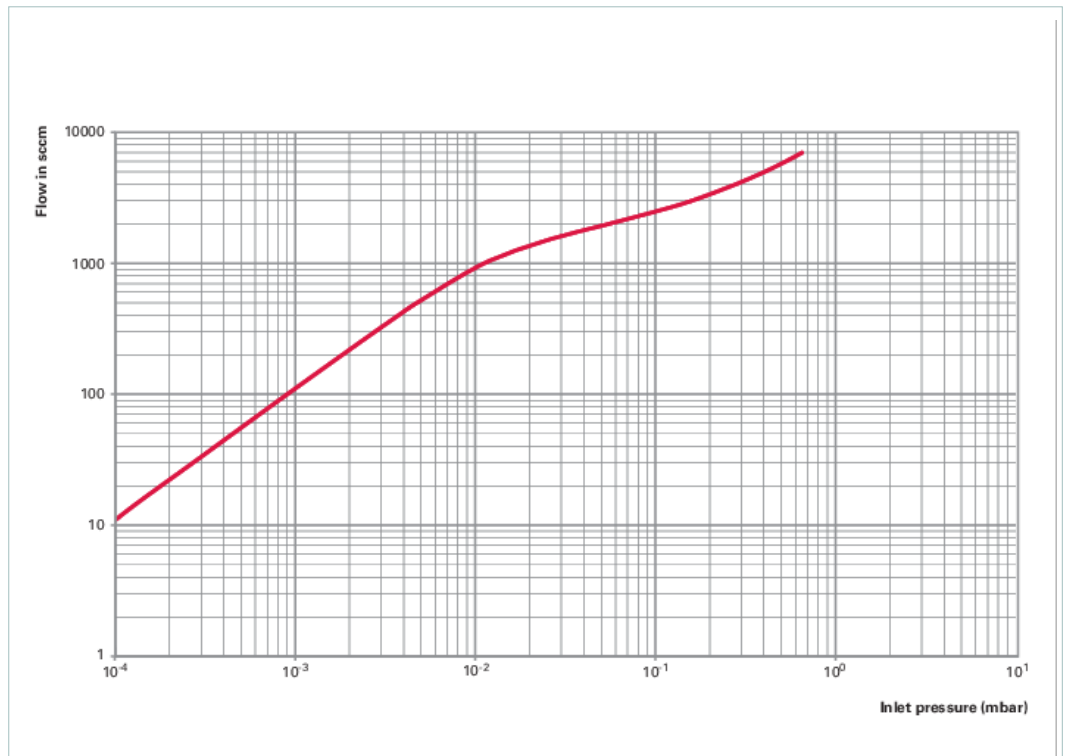
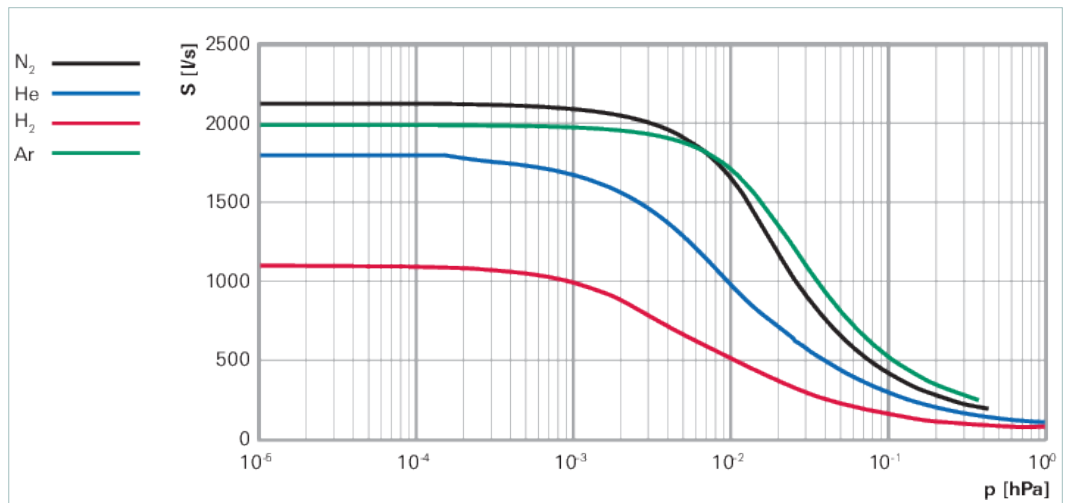




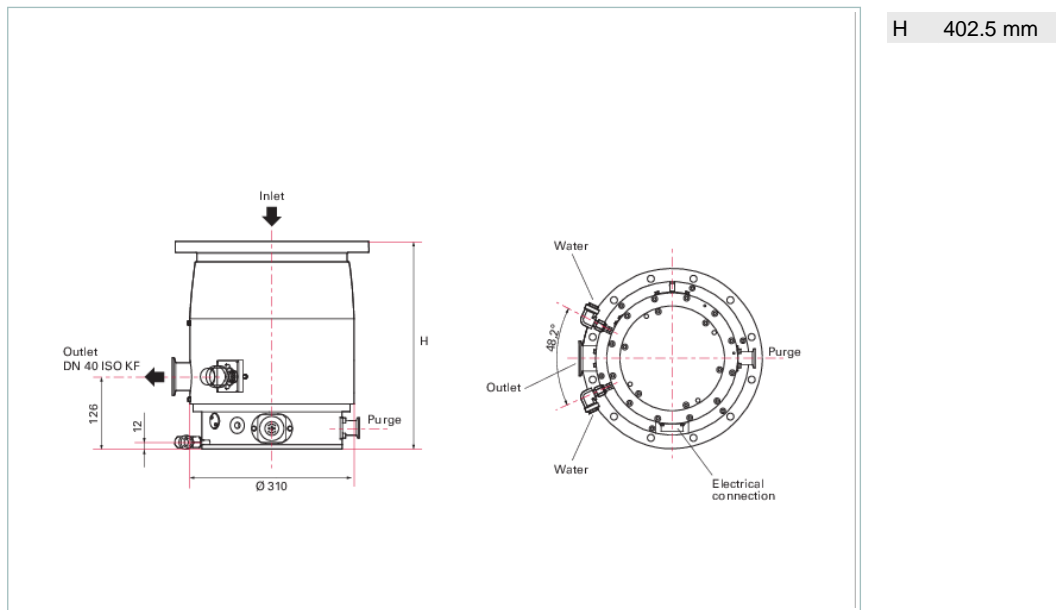
Similar Image

ATH 2300 MT, DN 250 CF-F, External drive electronics, Water cooled, Heated

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



Dimensions



Technical Data	ATH 2300 MT, DN 250 CF-F, External drive electronics, Water cooled, Heated
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H ₂	$> 2 \cdot 10^3$
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
Corrosive gas version	YES
Electronic drive unit	External drive electronics
Flange (in)	DN 250 CF-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N ₂	2.8 hPa 2.1 Torr 2.8 mbar
Gas throughput at full rotational speed for Ar, heated pump at 75 °C	8.5 hPa l/s 6.38 Torr l/s 8.5 mbar l/s
Gas throughput at full rotational speed for H ₂ , heated pump at 75 °C	> 16.9 hPa l/s > 12.68 Torr l/s > 16.9 mbar l/s
Gas throughput at full rotational speed for N ₂ , heated pump at 75 °C	16.9 hPa l/s 12.68 Torr l/s 16.9 mbar l/s
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	100-120/200-240 V AC, 50/60 Hz
Particulate matter	YES
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

Technical Data		ATH 2300 MT, DN 250 CF-F, External drive electronics, Water cooled, Heated
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 2300 MT		Q6622100

Accessories	
Electronic controllers	
Magpower controller	120917
Heater band cables and water valve cables	
Heater band cable (for MT pumps only), L = 1.0 m	A460082-010
Heater band cable (for MT pumps only), L = 10.0 m	A460082-100
Heater band cable (for MT pumps only), L = 20.0 m	A460082-200
Heater band cable (for MT pumps only), L = 3.5 m	A460082-035
Heater band cable (for MT pumps only), L = 5.0 m	A460082-050
Water valve cable (for MT pumps only), L = 1.0 m	A462401-010
Water valve cable (for MT pumps only), L = 10.0 m	A462401-100
Water valve cable (for MT pumps only), L = 20.0 m	A462401-200
Water valve cable (for MT pumps only), L = 3.5 m	A462401-035
Water valve cable (for MT pumps only), L = 5.0 m	A462401-050
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 CF-F (for ATH 500 M, DN100/160; ATH 2300 M, DN 200/250)	118690
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
Rotatable flange	
Rotatable flange DN250 CF-F	303133
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

Accessories	
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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