



# ATH 2300 MT, DN 250 ISO-F, External Drive Electronics, Water-Cooled, Non-Heated

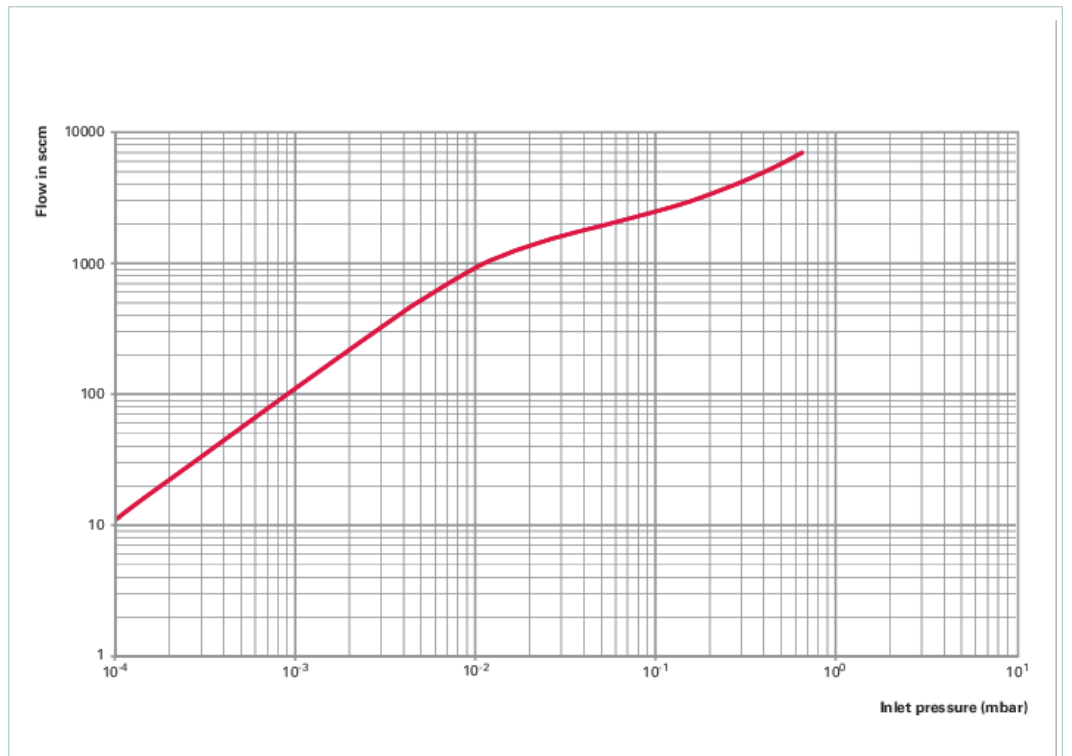
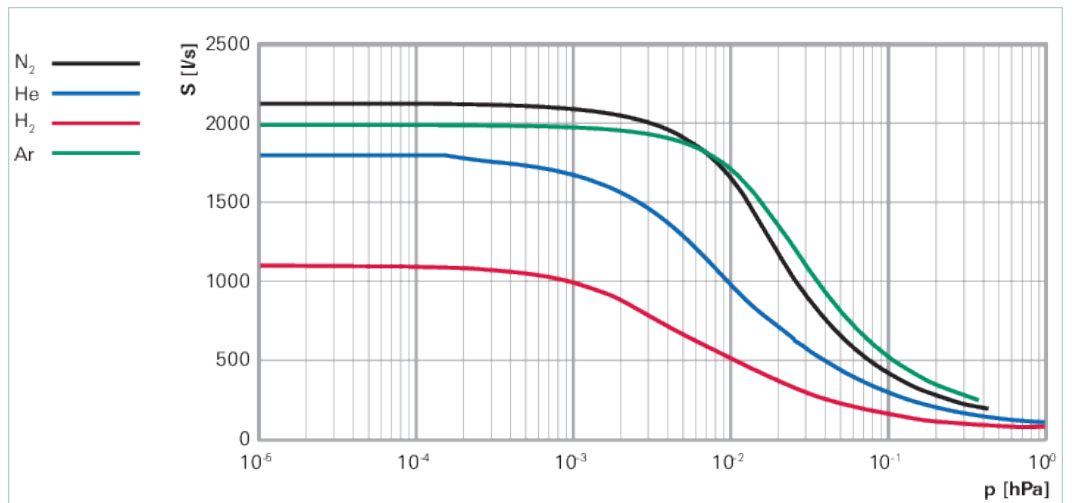
ATH 2300 MT, DN 250 CF-F, External drive electronics, Water cooled, Heated



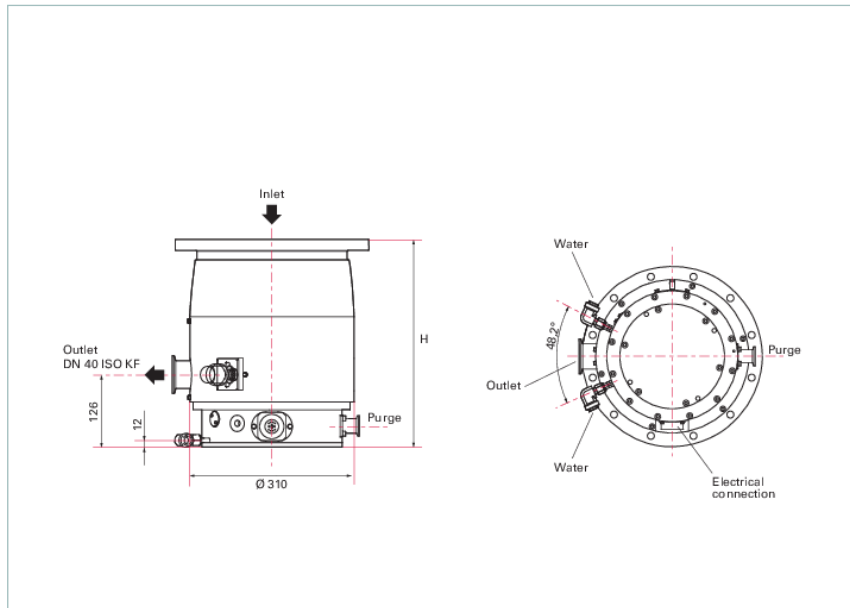
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## ATH 2300 MT, DN 250 ISO-F, External Drive Electronics, Water-Cooled, Non-Heated

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N<sub>2</sub>
- 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



H 402.5 mm

Technical Data	ATH 2300 MT, DN 250 ISO-F, External Drive Electronics, Water-Cooled, Non-Heated
Bearing	Magnetically
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H <sub>2</sub>	$> 2 \cdot 10^3$
Compression ratio for He	$> 3 \cdot 10^4$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^8$
Connection flange (in)	DN 250 CF-F
Connection flange (out)	DN 40 ISO-KF
Cooling method	Water
Cooling method, standard	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
Corrosive gas version	Yes
Electronic drive unit	External drive electronics
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 <sub>2</sub>	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
Gas throughput at full rotational speed for H <sub>2</sub> , heated pump at 75 °C	$> 16.9$ hPa·l/s
Gas throughput at full rotational speed for N <sub>2</sub> , heated pump at 75 °C	16.9 hPa·l/s
Gas throughput for Ar	25.4 hPa·l/s
Gas throughput for H <sub>2</sub>	$> 67.6$ hPa·l/s
Gas throughput for He	$> 67.6$ hPa·l/s
Gas throughput for N <sub>2</sub>	67.6 hPa·l/s
I/O interfaces	Via External drive electronics
Mounting orientation	Any
Operating voltage: 50/60 Hz	100 – 120 / 200 – 240, 50/60 Hz V AC
Particulate matter	YES
Power consumption at ultimate pressure	350 W
Power consumption max.	1000 W
Pumping speed for Ar	2000 l/s

Technical Data	ATH 2300 MT, DN 250 ISO-F, External Drive Electronics, Water-Cooled, Non-Heated
Pumping speed for H <sub>2</sub>	1100 l/s
Pumping speed for He	1800 l/s
Pumping speed for N <sub>2</sub>	2150 l/s
Rotation speed ± 2 %	31,000 rpm   31,000 min <sup>-1</sup>
Run-up time	< 8 min
Separate electronic drive unit	YES
Sound pressure level	≤47 dB(A)
Ultimate pressure	< 6 · 10 <sup>-9</sup> hPa   < 4.5 · 10 <sup>-9</sup> Torr   < 6 · 10 <sup>-9</sup> mbar
Weight	60 kg   132.28 lb

Order number	
ATH 2300 MT	<b>Q6622100</b>

<b>Accessories</b>	
<b>Cables Connection cables</b>	
Interconnecting cable (pump to Magpower external drive electronics), L = 1.0 m	<b>A215300-010-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 3.5 m	<b>A215300-035-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 5.0 m	<b>A215300-050-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 10.0 m	<b>A215300-100-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 20.0 m	<b>A215300-200-C6-D</b>
<b>Cables Heater band cables and water valve cables</b>	
Heater Band Cable (for MT Pumps Only), L = 1.0m	<b>A460082-010</b>
Heater Band Cable (for MT Pumps Only), L = 3.5m	<b>A460082-035</b>
Heater Band Cable (for MT Pumps Only), L = 5.0m	<b>A460082-050</b>
Heater Band Cable (for MT Pumps Only), L = 10.0m	<b>A460082-100</b>
Heater Band Cable (for MT Pumps Only), L = 20.0m	<b>A460082-200</b>
Water Valve Cable (for MT Pumps Only), L = 1.0m	<b>A462401-010</b>
Water Valve Cable (for MT Pumps Only), L = 3.5m	<b>A462401-035</b>
Water Valve Cable (for MT Pumps Only), L = 5.0m	<b>A462401-050</b>
Water Valve Cable (for MT Pumps Only), L = 10.0m	<b>A462401-100</b>
Water Valve Cable (for MT Pumps Only), L = 20.0 m	<b>A462401-200</b>
<b>Cables Mains cables / Power cords</b>	
Mains cable 2.5 m Europe standard 200–240 V AC	<b>A328405</b>
Mains Cable 2.5 m US Standard 200–240 V AC	<b>A331729</b>
<b>Cables Valve cables (external drive electronics to venting valve)</b>	
Valve cable (Magpower external drive electronics to venting valve), L = 1.0 m	<b>A462403-010</b>
Valve cable (Magpower external drive electronics to venting valve), L = 3.5 m	<b>A462403-035</b>
Valve cable (Magpower external drive electronics to venting valve), L = 5.0 m	<b>A462403-050</b>
Valve cable (Magpower external drive electronics to venting valve), L = 10.0 m	<b>A462403-100</b>
Valve cable (external drive electronics to venting valve), L= 20.0 m	<b>A462403-200</b>
<b>Control Devices External drive units</b>	
Magpower controller	<b>120917</b>
<b>Flanges/Ports Rotatable flanges</b>	
Rotatable flange DN 250 CF-F	<b>303133</b>
<b>Mounting Mounting kits for ATH-M &lt;verteilen&gt;</b>	
Screw Set for CF-F (for ATH 500 M, DN100/160   ATH 2300 M, DN 200/250)	<b>118690</b>
<b>Protection Dust separators/Inlet particle filters</b>	
Dust filter	<b>106229</b>

<b>Accessories</b>	
<b>Protection Inlet screens</b>	
Stainless inlet filter for DN 250 - M 5	<b>108762</b>
Aluminum inlet filter for DN 250	<b>111640</b>
<b>Valves Sealing gas valves, shielded (normally closed)</b>	
Sealing Gas Valve, 50 sccm	<b>111921S</b>
<b>Valves Water inlet valves</b>	
Water inlet valve 24 V DC	<b>108668</b>
<b>Venting Venting valves (normally closed)</b>	
Air venting valve (for OBC V4 and Magpower)	<b>114280</b>

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