



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

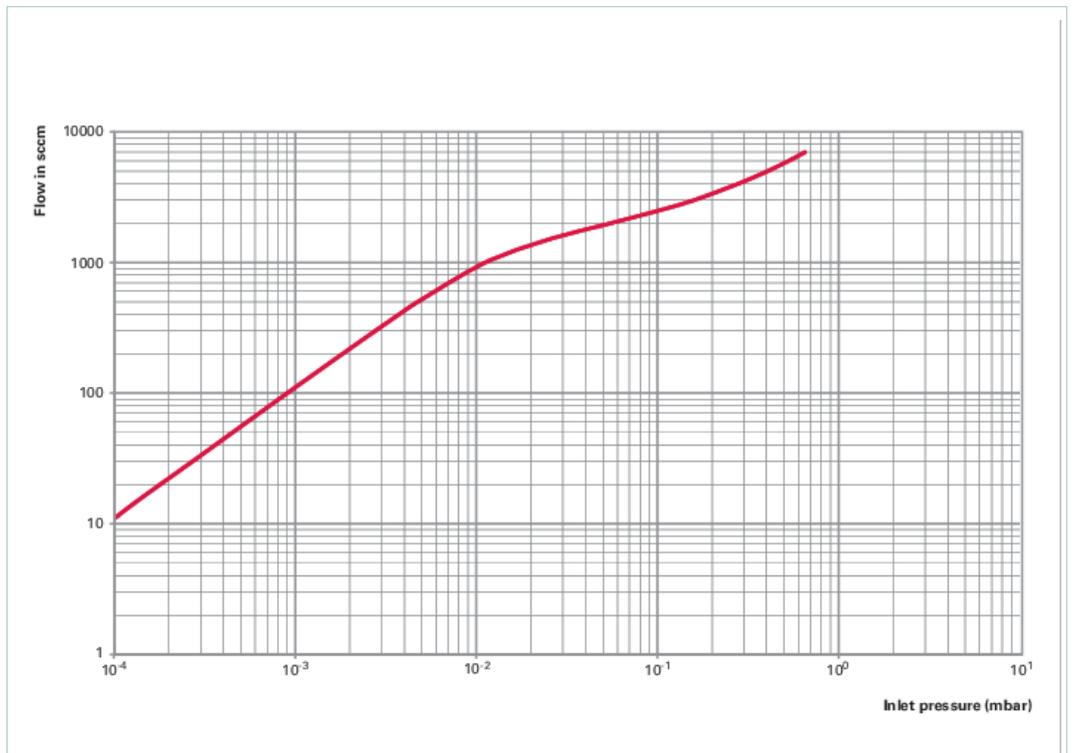
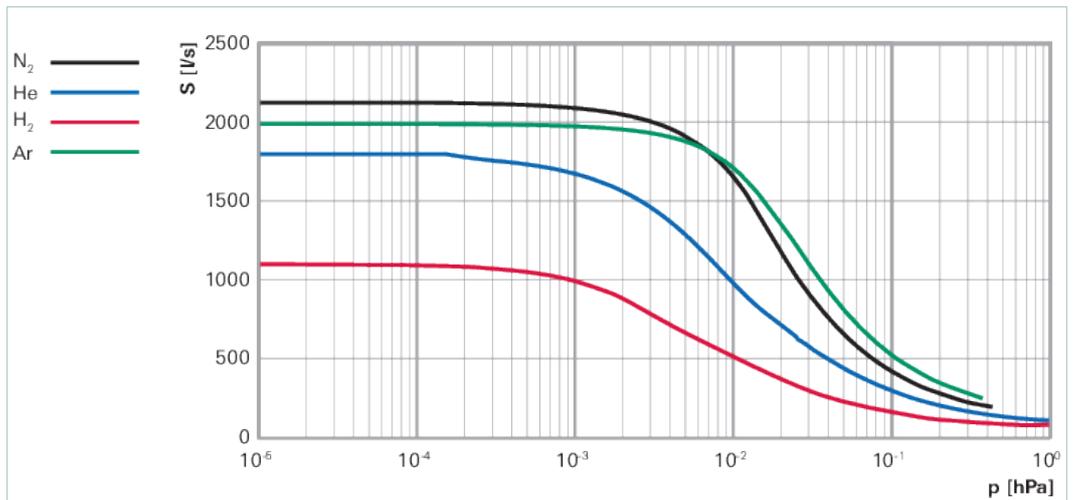
ATH 2300 MT, DN 250 ISO-F, External drive electronics, Water  
cooled, Heated



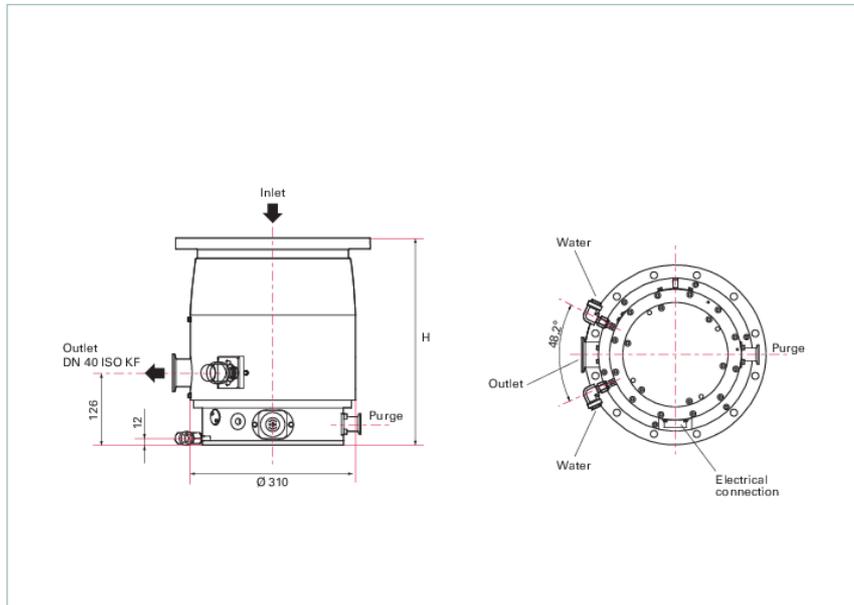
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## ATH 2300 MT, DN 250 ISO-F, External drive electronics, Water cooled, Heated

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N<sub>2</sub>
- DN 250 ISO-F inlet flange
- Operation with Magpower external drive electronics
- Installation in any orientation
- Water cooled, Heated
- CE marked and ROHS compliant



## Dimensions



H 358.5 mm

Technical Data	ATH 2300 MT, DN 250 ISO-F, External drive electronics, Water cooled, Heated
Bearing	Magnetically Levitated
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>	$> 1 \cdot 10^8$
Cooling method	Water
Cooling water consumption	1 l/min
Cooling water temperature	15-25 °C   59-77 °F   288-298 K
Cooling water temperature max.	40 °C   104 °F   313 K
Corrosive gas version	YES
Electronic drive unit	External drive electronics
Flange (in)	DN 250 ISO-F
Flange (out)	DN 40 ISO-KF
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   6.38 Torr l/s   8.5 mbar l/s
Gas throughput at full rotational speed for H <sub>2</sub> , 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 <sub>2</sub> , 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 <sub>2</sub>	$> 67.6$ 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 <sub>2</sub>	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
Particulate matter	YES
Power consumption at ultimate pressure	350 W
Pumping speed for Ar	2000 l/s
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
Pumping speed range	2300 l/s

Technical Data	ATH 2300 MT, DN 250 ISO-F, External drive electronics, Water cooled, Heated
Rotation speed $\pm 2\%$	31,000 rpm   31,000 min <sup>-1</sup>
Run-up time	< 8 min
Separate electronic drive unit	YES
Sound pressure level	$\leq 47$ dB(A)
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	<b>Q6662100</b>

<b>Accessories</b>	
<b>Venting valves and other accessories</b>	
Dust filter	<b>106229</b>
Water inlet valve 24 V DC	<b>108668</b>
Purge valve 50 sccm	<b>111921S</b>
Air venting valve (for OBC V4 and Magpower)	<b>114280</b>
<b>Inlet screen</b>	
Stainless inlet screen kit for DN 250 - M 5	<b>108762</b>
Aluminum inlet screen kit for DN 250	<b>111640</b>
<b>Mounting kits</b>	
Mounting bolts for ISO-F (for ATH 2300 M, DN 250; ATH 2800 M, DN 250) with centering ring	<b>110034</b>
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	<b>110676S</b>
<b>Electronic controllers</b>	
Magpower controller	<b>120917</b>
<b>Interconnecting cable (pump to Magpower external drive electronics)</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>Power cord</b>	
Power cord 2.5 m Europe standard 200 - 240 V AC	<b>A328405</b>
Power cord 2.5 m US standard 200 - 240 V AC	<b>A331729</b>
<b>Heater band cables and water valve cables</b>	
Heater band cable (for MT pumps only), L = 1.0 m	<b>A460082-010</b>
Heater band cable (for MT pumps only), L = 3.5 m	<b>A460082-035</b>
Heater band cable (for MT pumps only), L = 5.0 m	<b>A460082-050</b>
Heater band cable (for MT pumps only), L = 10.0 m	<b>A460082-100</b>
Heater band cable (for MT pumps only), L = 20.0 m	<b>A460082-200</b>
Water valve cable (for MT pumps only), L = 1.0 m	<b>A462401-010</b>
Water valve cable (for MT pumps only), L = 3.5 m	<b>A462401-035</b>
Water valve cable (for MT pumps only), L = 5.0 m	<b>A462401-050</b>
Water valve cable (for MT pumps only), L = 10.0 m	<b>A462401-100</b>
Water valve cable (for MT pumps only), L = 20.0 m	<b>A462401-200</b>

<b>Accessories</b>	
<b>Valve cable (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 (Magpower external drive electronics to venting valve), L = 20.0 m	<b>A462403-200</b>

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