



Data sheet · ATH 2300 MT

**ATH 2300 MT, DN 250 CF-F, OBC V4
integrated drive electronics, Remote,
Water cooled, Heated**

**5-axis magnetically levitated turbopump with drag stage for a
pump speed of up to 2150 l/s for N₂**

ATH 2300 MT, DN 250 CF-F, OBC V4 integrated drive electronics, Remote, Water cooled, Heated

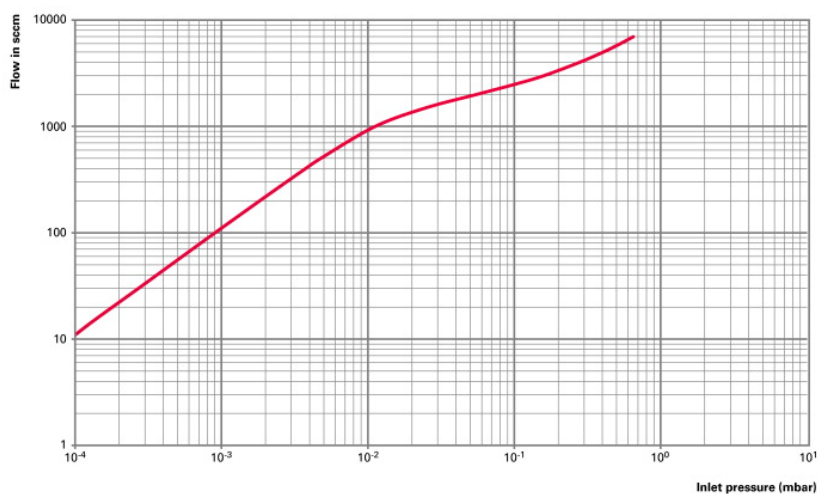
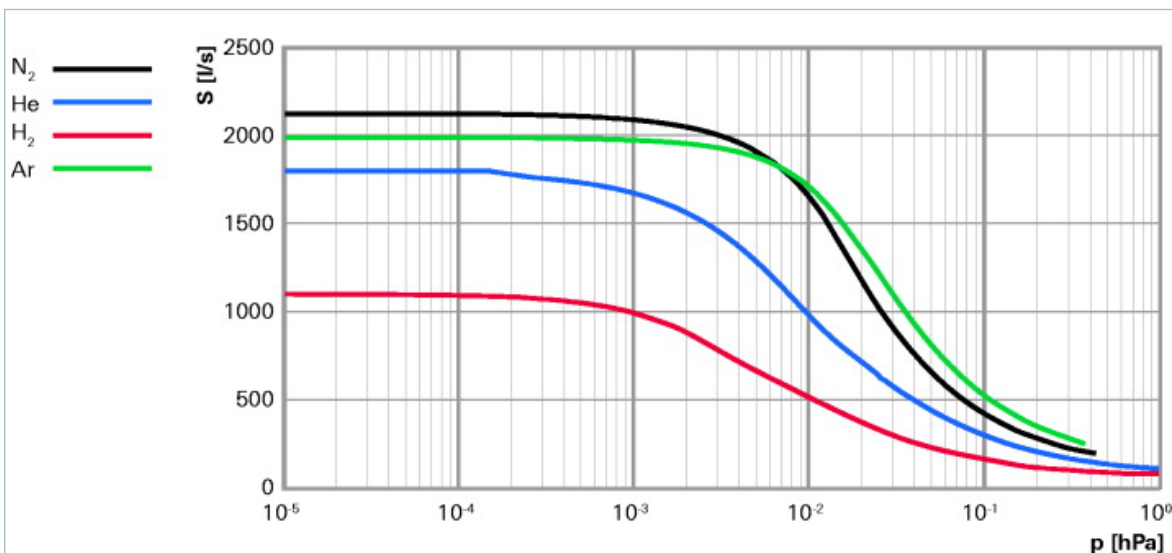
ATH 2300 MT

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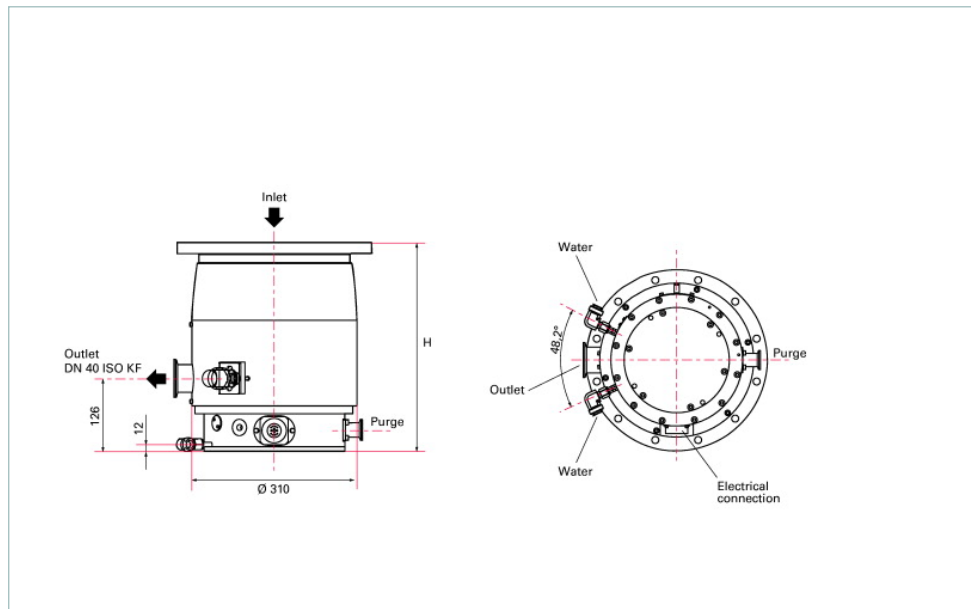
- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N₂
- DN 250 CF-F inlet flange
- Operation with OBC V4 integrated drive electronics
- Installation in any orientation
- Remote, Water cooled, Heated
- CE marked and ROHS compliant

Characteristics



ATH 2300 MT, DN 250 CF-F, OBC V4 integrated drive electronics, Remote, Water cooled, Heated

Dimensions



H 402.5 mm

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Technical Data

**ATH 2300 MT,
DN 250 CF-F,
OBC V4
integrated drive
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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	1.0 l/min
Corrosive gas version	yes
Electronic drive unit	Integrated drive electronics
Flange (in)	DN 250 CF-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N ₂	2.8 hPa
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 ₂ , heated pump at 75 °C	> 16.9 hPa l/s
Gas throughput at full rotational speed for N ₂ , heated pump at 75 °C	16.9 hPa l/s
Gas throughput for Ar	25.4 hPa l/s
Gas throughput for H ₂	> 67.6 hPa l/s
Gas throughput for He	> 67.6 hPa l/s
Gas throughput for N ₂	67.6 hPa l/s
Integrated power supply	yes
Interfaces	Remote
Mounting orientation	in any orientation
Operating voltage	100-120/200-240 V AC, 50/60 Hz
Particulate matter	yes
Protection category	IP 54
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
Rotation speed ± 2 %	31000 min ⁻¹
Run-up time	< 8 min
Sound pressure level	≤ 47 dB (A)
Ultimate pressure	$< 6 \cdot 10^{-9}$ hPa

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Weight	60 (pump) + 8 (controller) kg
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Order number	QI62215A
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Electronic controllers

Hand Held Remote (HHR) with cable	114461
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Inlet screen

Aluminum inlet screen kit for DN250	111640
Stainless inlet screen kit for DN250 - M 5	108762

Mounting kits

Mounting bolts for CF-F (for ATH 500 M, DN100/160; ATH 2300 M, DN 200/250)	118690
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Rotatable flange

Rotatable flange DN250 CF-F	303133
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Venting valves and other accessories

Dust filter	106229
Purge valve 25 sccm	118900
Purge valve 50 sccm	111921
Water inlet valve 24 V DC	108668

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