



**ATH 1600 MT,
DN 200 ISO-F, external
drive electronics,
heated**



伯東
Hakuto

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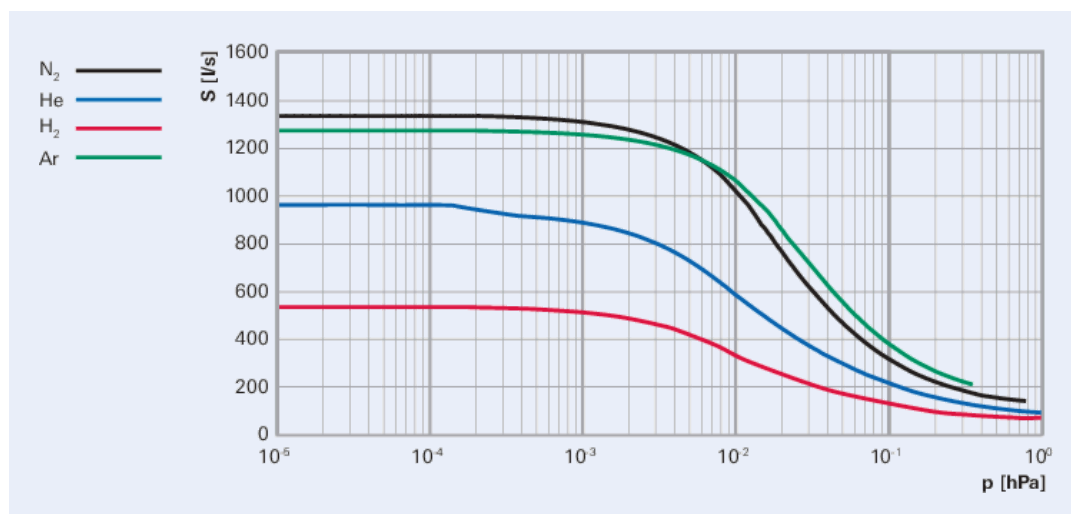


Illustration only

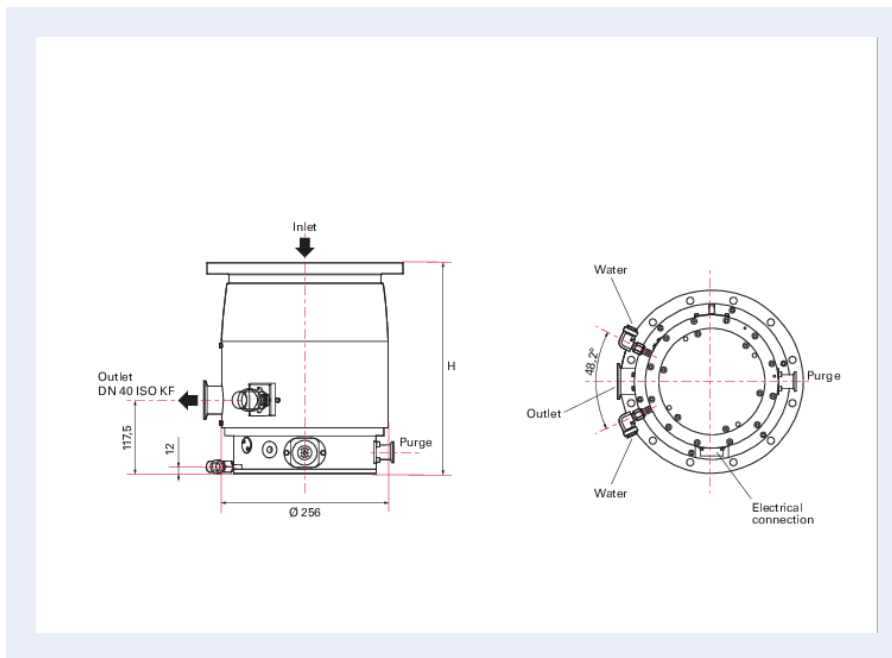
ATH 1600 MT, DN 200 ISO-F, external drive electronics, heated

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 1360 l/s for N₂
- Connection flange DN 200 ISO-F
- Operation with external Magpower electronic drive unit
- Installation in any orientation
- Water cooled, Heated
- CE marked and ROHS compliant

Characteristics



Dimensions



H 316.9 mm

Technical Data	ATH 1600 MT, DN 200 ISO-F, external drive electronics, heated
Type of electronic drive unit installation	External electronic drive unit -not incl.-
Position of power supply pack	External power supply pack
Corrosive gas version	Yes
Cooling method	Water
Particle intake	Yes
Pumping speed	1944 – 4896 m ³ /h
Pumping speed category	5760 m ³ /h
Pumping speed for He	940 l/s
Pumping speed for N ₂	1,360 l/s
Vacuum range min	6 · 10 ⁻⁹ hPa
Vacuum range max	6 · 10 ⁻⁹ hPa
I/O interfaces	Via external electronic drive unit
Cooling water temperature	15 – 25 °C
Bearing	Magnet
Mounting orientation	Arbitrary
Pumping speed for Ar	1,280 l/s
Pumping speed for H ₂	540 l/s
Input voltage(s)	200 – 240 V AC, 50/60 Hz
Emission sound pressure level (EN ISO 2151)	≤48 dB(A)
Gas throughput at maximum rotation speed for H ₂ , heated pump at 75 °C	>16.9 hPa·l/s
Gas throughput at maximum rotation speed for N ₂ , heated pump at 75 °C	16.9 hPa·l/s
Power consumption at ultimate pressure	300 W
Gas throughput for Ar	20.3 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
Run-up time	<6 min
Compression ratio for Ar	>1 · 10 ⁸
Compression ratio for H ₂	>5 · 10 ²
Compression ratio for He	>4 · 10 ³
Compression ratio for N ₂	>1 · 10 ⁸
Fore-vacuum max. for N ₂	2.2 hPa 1.65 Torr 2.2 mbar
Pumping speed for He	940 l/s

Pumping speed for N ₂	1,360 l/s
Gas throughput at maximum rotation speed for Ar, heated pump at 75 °C	8.5 hPa·l/s
Rotation speed ±2 %	39,000 rpm 39,000 min ⁻¹
Pumping speed for Ar	1,280 l/s
Pumping speed for H ₂	540 l/s
Compression ratio for N ₂	>1 · 10 ⁸
Compression ratio for H ₂	>5 · 10 ²
Compression ratio for He	>4 · 10 ³
Compression ratio for Ar	>1 · 10 ⁸
Gas throughput for He	>67.6 hPa·l/s
Gas throughput for H ₂	>67.6 hPa·l/s
Gas throughput for N ₂	67.6 hPa·l/s
Gas throughput for Ar	20.3 hPa·l/s
Fore-vacuum max. for N ₂	2.2 hPa
Cooling water flow	60 l/h
Power consumption max.	650 W
03 Vacuum range	High Vacuum Ultra-high Vacuum
Connection flange	DN 200 ISO-F / DN 40 ISO-KF
Rotation speed ± 2 %	39,000 rpm
Weight	34 kg
Compression ratio	1 · 10 ⁸
Connection flange (in)	DN 200 ISO-F
Connection flange (out)	DN 40 ISO-KF

Order number	ATH 1600 MT, DN 200 ISO-F, external drive electronics, heated
ATH 1600 MT, DN 200 ISO-F, external drive electronics, heated	2000027117



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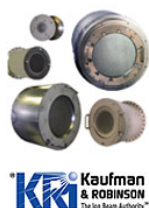
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