



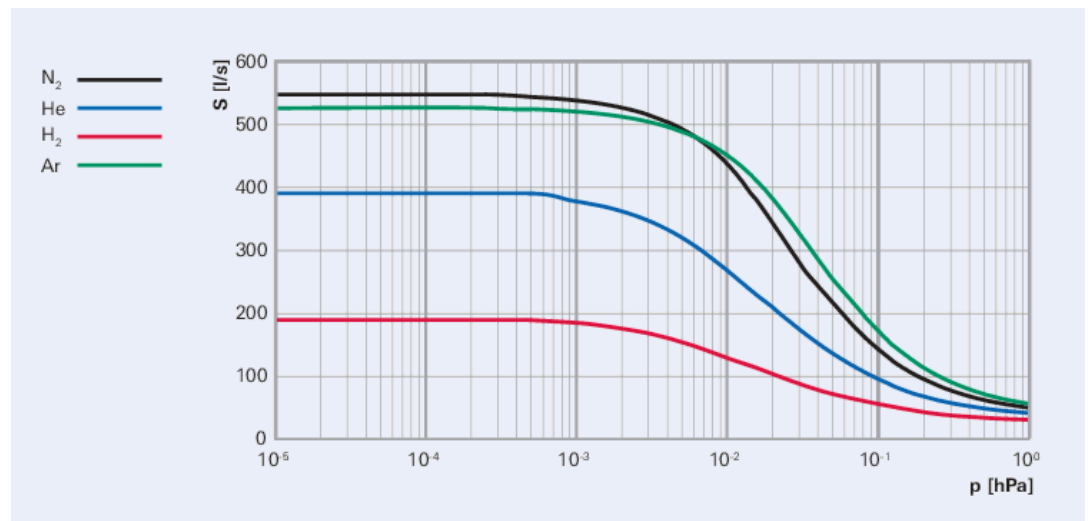


Illustration only

ATH 500 MT, DN 160 CF-F, remote, heated

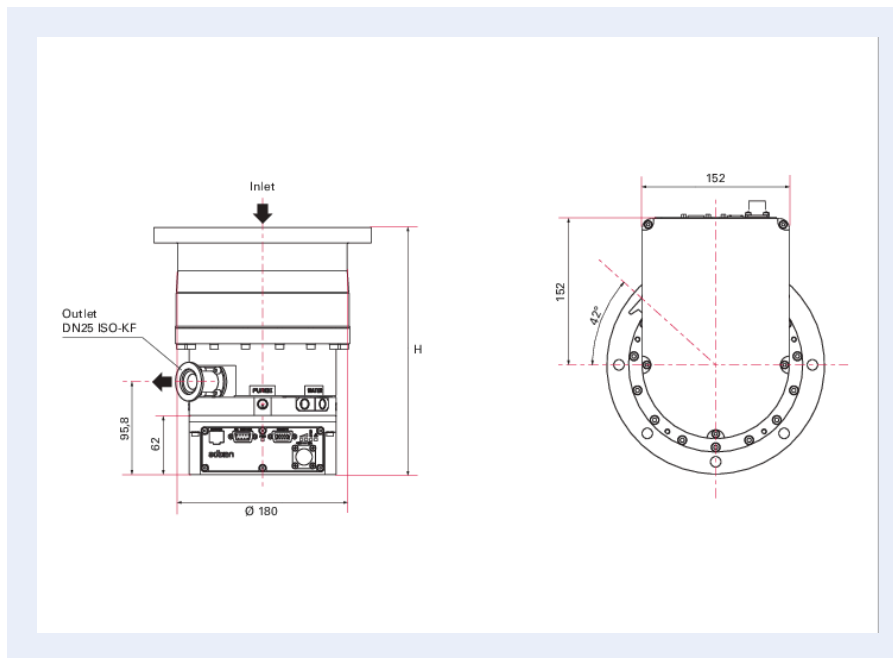
- 5-axis magnetically levitated turbopump with Holweck stage for a pumping speed of up to 550 l/s for N₂
- DN 160 CF-F inlet flange
- Compact integrated drive electronics
- Installation in any orientation
- Remote, Heated
- CE marked and ROHS compliant

Characteristics



ATH 500 MT

Dimensions



H 275.9 mm

Technical Data	ATH 500 MT, DN 160 CF-F, remote, heated
Type of electronic drive unit installation	Integrated electronic drive unit
Corrosive gas version	Yes
Cooling method	Water
Particle intake	Yes
Pumping speed	1260 m ³ /h
Pumping speed category	1800 m ³ /h
Pumping speed for He	390 l/s
Pumping speed for N ₂	550 l/s
Vacuum range min	1 · 10 ⁻⁸ hPa
Vacuum range max	1 · 10 ⁻⁸ hPa
I/O interfaces	Remote
Cooling water temperature	15 – 25 °C
Bearing	Magnet
Mounting orientation	Arbitrary
Pumping speed for Ar	530 l/s
Pumping speed for H ₂	190 l/s
Input voltage(s)	48 V DC (±5 %)
Emission sound pressure level (EN ISO 2151)	≤42 dB(A)
Gas throughput at maximum rotation speed for H ₂ , heated pump at 65 °C	>16.9 hPa·l/s
Gas throughput at maximum rotation speed for N ₂ , heated pump at 65 °C	8.5 hPa·l/s
Power consumption at ultimate pressure	100 W
Gas throughput for Ar	42.3 hPa·l/s
Gas throughput for H ₂	>169 hPa·l/s
Gas throughput for He	>169 hPa·l/s
Gas throughput for N ₂	67.6 hPa·l/s
Run-up time	<2 min
Compression ratio for Ar	>8 · 10 ⁶
Compression ratio for H ₂	>2 · 10 ²
Compression ratio for He	>1 · 10 ⁴
Compression ratio for N ₂	>2 · 10 ⁷
Fore-vacuum max. for N ₂	2.6 hPa 1.95 Torr 2.6 mbar
Pumping speed for He	390 l/s
Pumping speed for N ₂	550 l/s

ATH 500 MT

Gas throughput at maximum rotation speed for Ar, heated pump at 65 °C	5.1 hPa·l/s
Rotation speed ±2 %	50,000 rpm 50,000 min ⁻¹
Weight	18 kg 39.68 lb
Pumping speed for Ar	530 l/s
Pumping speed for H ₂	190 l/s
Compression ratio for N ₂	>2 · 10 ⁷
Compression ratio for H ₂	>2 · 10 ²
Compression ratio for He	>1 · 10 ⁴
Compression ratio for Ar	>8 · 10 ⁶
Gas throughput for He	>169 hPa·l/s
Gas throughput for H ₂	>169 hPa·l/s
Gas throughput for N ₂	67.6 hPa·l/s
Gas throughput for Ar	42.3 hPa·l/s
Fore-vacuum max. for N ₂	2.6 hPa
Cooling water flow	60 l/h
Power consumption max.	560 W
03 Vacuum range	High Vacuum Ultra-high Vacuum
Connection flange	DN 160 CF-F / DN 40 ISO-KF
Rotation speed ± 2 %	50,000 rpm
Weight	18 kg
Compression ratio	2 · 10 ⁷
Connection flange (in)	DN 160 CF-F
Connection flange (out)	DN 40 ISO-KF

Order number	ATH 500 MT, DN 160 CF-F, remote, heated
ATH 500 MT, DN 160 CF-F, remote, heated	2000000682



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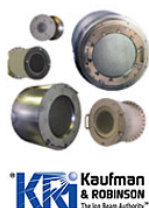
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