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Pfeiffer ATH-2804M

Technical Specifications

	ATH 2804 M
Bakeout temperature max.	90 °C | 194 °F | 363 K
Bearing	Magnetically
Compression ratio for Ar	> $1 \cdot 10^{9}$
Compression ratio for H_2	$4.9 \cdot 10^{3}$
Compression ratio for He	$9 \cdot 10^{4}$
Compression ratio for N_2	> $1 \cdot 10^{9}$
Connection flange (in)	DN 250 ISO-F
Connection flange (out)	DN 40/50 ISO-KF
Cooling method	Water
Cooling water flow	60 l/h
Cooling water temperature	15-40 °C | 59-104 °F | 288-313 K
Electronic drive unit	integrated drive electronics
Final pressure without gas ballast	< $1 \cdot 10^{-8}$ hPa | < $7.5 \cdot 10^{-9}$ Torr | < $1 \cdot 10^{-8}$ mbar
Fore-vacuum max. for Ar	4.4 hPa | 3.3 Torr | 4.4 mbar
Fore-vacuum max. for N_2	3.4 hPa | 2.55 Torr | 3.4 mbar
Gas throughput for Ar	42.2 hPa·l/s
Gas throughput for H_2	84.5 hPa·l/s
Gas throughput for He	84.5 hPa·l/s
Gas throughput for N_2	84.5 hPa·l/s
I/O interfaces	Remote
Motor version	1-ph motor
Mounting orientation	Any
N_2 sealing gas flow	0.05 slpm (0 °C)
Power consumption at ultimate pressure	160 W
Power consumption max.	1200 W
Protection category	IP54
Pumping speed for Ar	2350 l/s
Pumping speed for H_2	1650 l/s
Pumping speed for He	2300 l/s
Pumping speed for N_2	2350 l/s
Rotation speed	≥ 25,000 rpm | ≥ 25,000 min^{-1}
Rotation speed at stand-by	15,000-25,000 rpm | 15,000-25,000 min^{-1}
Run-up time	< 8 min
Sound pressure level	<45 dB(A)

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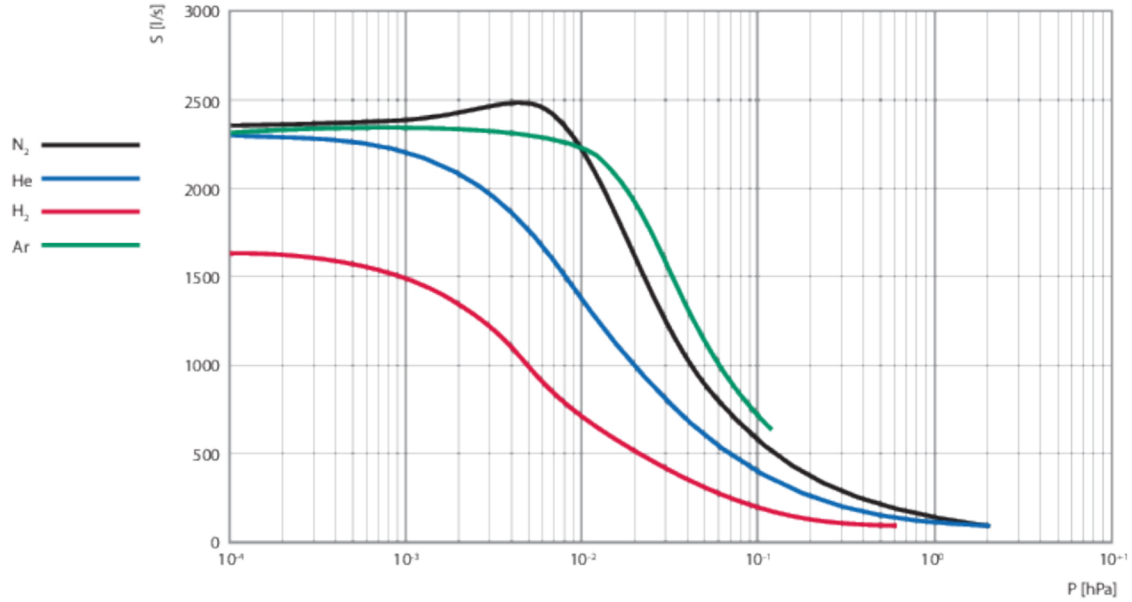
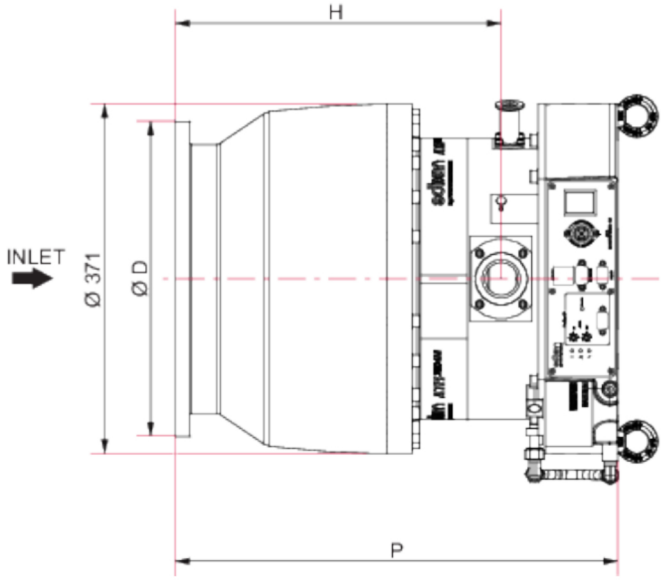
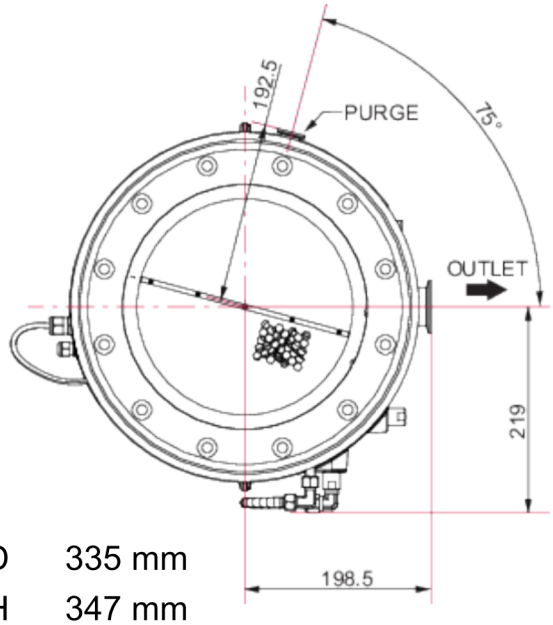
Pumping Curves



Dimensions





D	335 mm
H	347 mm
P	471 mm

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Features & Benefits

- 5-axis magnetically levitated turbopump with drag stage
- integrated drive electronics
- installation in any orientation
- remote, water cooled, non-heated
- easy plug & play installation
- energy saving; low electricity & cooling water consumption
- wear-free, low vibration operation

Applications

- surface analyzers • leak detectors • biotechnology • residual gas analysis • bonding • medical technologies • isolation vacuums
- heat treatment • nanotechnology