Pfeiffer ATH-3204M
Technical Specifications

|	ATH 2804 M/MT	ATH 3204 M/MT
Flange (in)	DN 250 ISO-F	DN 320 ISO-F
Flange (out)	DN 40 / 50 ISO-KF	
Pumping speed for N_2	2,350 l/s	3,050 l/s
Pumping speed for Ar	2,350 l/s	2,900 l/s
Pumping speed for He	2,300 l/s	2,500 l/s
Pumping speed for H_2	1,650 l/s	1,700 l/s
Rotation speed ±2%	25,000 min^{-1}	
Run-up time	< 8 min	
Gas throughput at full rotational speed for Ar	41.6 hPa l/s / 2,500 sccm	
Gas throughput at full rotational speed for H_2	> 100 hPa l/s / > 6,000 sccm	
Gas throughput at full rotational speed for He	> 100 hPa l/s / > 6,000 sccm	
Gas throughput at full rotational speed for N_2	83.3 hPa l/s / 5,000 sccm	
Compression ratio for N_2	$> 1 \cdot 10^8$	
Compression ratio for Ar	$> 1 \cdot 10^9$	
Compression ratio for He	$9 \cdot 10^4$	
Compression ratio for H_2	$4.9 \cdot 10^3$	
Fore-vacuum max for N_2	3.4 hPa	3 hPa
Ultimate pressure according to PNEUROP	$< 6 \cdot 10^{-9}$ hPa	
Weight[1]	98 kg (101 kg)	80 kg (103 kg)
Cooling method	Water	
Cooling water consumption	1 l/min	
Cooling water temperature	15–25 °C	
Interfaces	Remote	
Protection categorie	IP 54	
Sound pressure level	≤ 45 dB (A)	
Bearing	5 axe magnetically levitated	
Electonic drive unit	Integrated drive electonics	
Mounting orientation	in any orientation	
Operating voltage	220–240 V AC; 50/60 Hz, single phase	
Power consumption at ultimate pressure[1]	< 160 W (590 W)	

[1] Values in brackets = MT version

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Pumping Curves
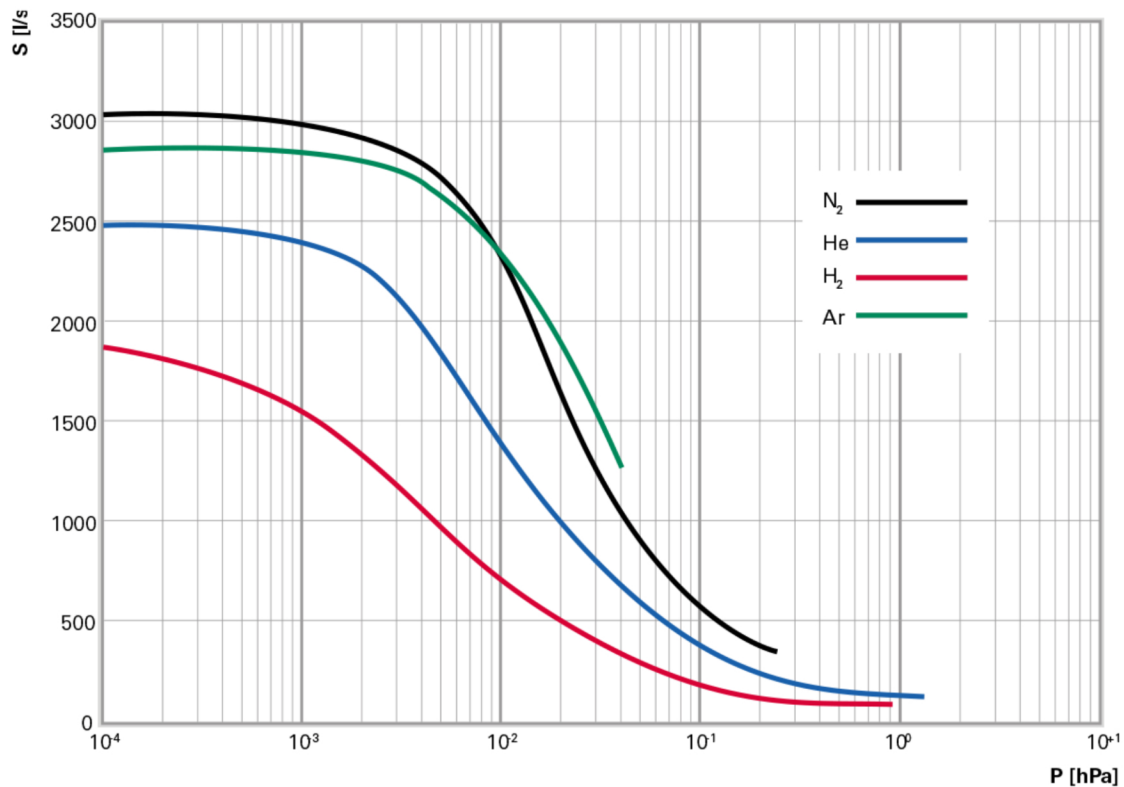
Dimensions
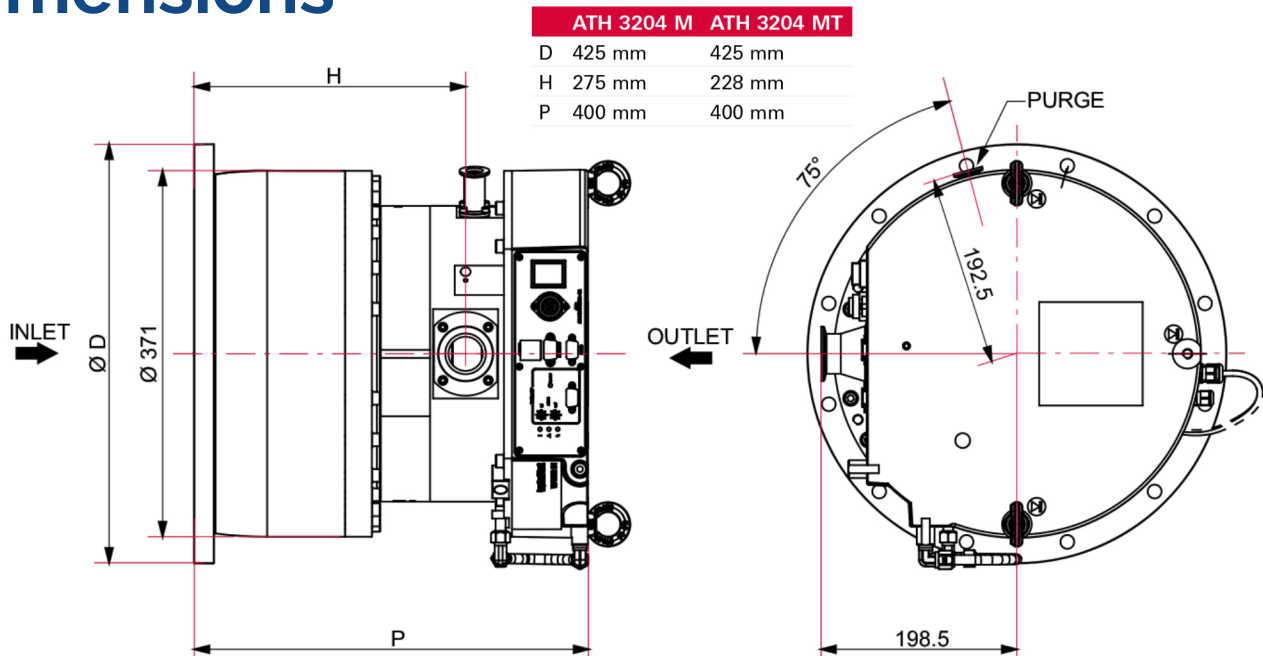
	ATH 3204 M	ATH 3204 MT
D	425 mm	425 mm
H	275 mm	228 mm
P	400 mm	400 mm

Pfeiffer ATH-3204M
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