





ATH 2804 MT, DN 250 ISO-F, water-cooled, heated, with integrated drive electronics



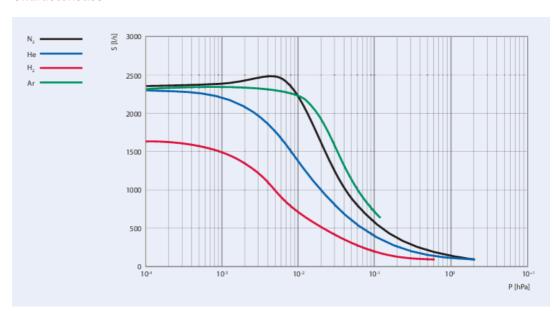




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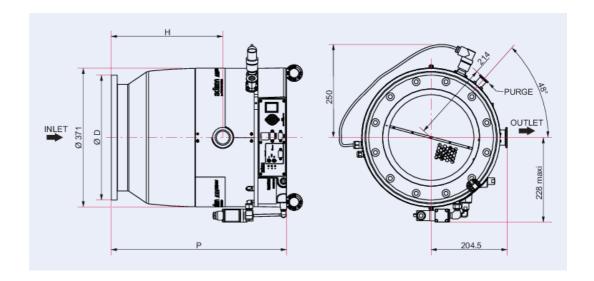
- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2350 l/s for N₂
- Connection flange DN 250 ISO-F
- Integrated electronic drive unit
- Installation in any orientation
- Remote, water cooled, non-heated
- CE marked and ROHS compliant

Characteristics



Dimensions

PFEIFFER VACUUM



| Technical Data | ATH 2804 MT, DN 250 ISO-F, water-cooled, heated, with integrated drive electronics |
|---|--|
| Leakage current max. | <3.5 mA |
| Type of electronic drive unit installation | Integrated electronic drive unit |
| Rotation speed at stand-by, min. | 15,000 rpm |
| Rotation speed at stand-by, max. | 25,000 rpm |
| Power consumption in stand-by mode, min. | 560 W |
| I/O interfaces | Remote |
| Cooling method | Water |
| Protection degree | IP54 |
| Pumping speed | 5 940 – 8 460 m³/h |
| Motor type | 1-phase motor |
| Pumping speed category | 2 800 l/s |
| Set point: Temperature max. | 85 °C |
| Set point: Temperature min. | 55 °C |
| Switch-point: Temperature | 55 – 85 °C |
| Cooling water temperature, max | 25 °C |
| Cooling water temperature, min | 15 °C |
| N ₂ sealing gas flow | 0.05 slpm (0 °C) |
| Rotation speed in stand-by mode | 15 000 – 25 000 rpm |
| Pumping speed for He | 2,300 l/s |
| Pumping speed for N ₂ | 2,350 l/s |
| Sound pressure level | <45 dB(A) |
| Typical vibration displacement (at inlet flange 10-1000 Hz) | 0.01 μm |
| Power consumption at ultimate pressure | 590 W |
| Vacuum range max | 1 · 10 ⁻⁸ hPa |
| Vacuum range min | 1 · 10 ⁻⁸ hPa |
| I/O interfaces | Remote |
| Cooling water temperature | 15 – 25 °C |
| Pumping speed for Ar | 2,350 l/s |
| Pumping speed for H ₂ | 1,650 l/s |
| Input voltage 50 Hz | 200 – 240 V |
| Input voltage 60 Hz | 200 – 240 V |
| Input voltage(s) | 200 – 240 V AC, 50/60 Hz |
| Sound pressure level | <45 dB(A) |
| Sound pressure level | <45 dB(A) |
| Power consumption at final pressure | 590 W |

| Gas throughput for N ₂ | 47.3 hPa·l/s |
|--|---|
| Run-up time | <8 min |
| Compression ratio for Ar | >1 · 10 ⁹ |
| Compression ratio for H ₂ | 4.9 · 10 ³ |
| Compression ratio for He | 9 · 10 ⁴ |
| Compression ratio for N ₂ | >1 · 10 ⁹ |
| Inlet pressure max. for Ar | 0.01 hPa 0.008 Torr 0.01 mbar |
| Inlet pressure max. for N ₂ | 0.04 hPa 0.03 Torr 0.04 mbar |
| Maximum stray current | <3.5 mA |
| Rotation speed in stand-by mode, max. | 25,000 rpm 25,000 min ⁻¹ |
| Rotation speed in stand-by mode, min. | 15,000 rpm 15,000 min ⁻¹ |
| Cooling water flow, max. | 60 l/h |
| N ₂ sealing gas flow min. | 50 sccm (0 °C) |
| N ₂ sealing gas flow, max. | 50 sccm (0 °C) |
| Switch-point: Temperature max. | 85 °C 185 K -188 °F |
| Switch-point: Temperature min. | 55 °C 131 K -218 °F |
| Cooling water flow, min. | 60 l/h |
| Cooling water temperature, max | 25 °C 77 K -248.15 °F |
| Cooling water temperature, min | 15 °C 59 K -258.15 °F |
| Pumping speed, max. | 8,460 m ³ /h 4,979.56 cfm 141,002.82 l/min |
| Fore-vacuum max. for N ₂ | 3 hPa 2.25 Torr 3 mbar |
| Fore-vacuum max. for Ar | 3.7 hPa 2.78 Torr 3.7 mbar |
| Pumping speed for He | 2,300 l/s |
| Pumping speed for N ₂ | 2,350 l/s |
| Typical oscillation train (at inlet flange 10-1000 Hz) | 0.01 μm |
| Pumping speed, min. | 5,940 m ³ /h 3,496.28 cfm 99,001.98 l/min |
| Rotation speed max. | 25,000 rpm 25,000 min ⁻¹ |
| Pumping speed for Ar | 2,350 l/s |
| Pumping speed for H ₂ | 1,650 l/s |
| Inlet pressure max. for Ar | 0.01 hPa |
| Inlet pressure max. for N ₂ | 0.04 hPa |
| Cooling water flow, max. | 60 l/h |
| N ₂ sealing gas flow min. | 50 sccm (0 °C) |
| N ₂ sealing gas flow, max. | 50 sccm (0 °C) |
| Cooling water flow, min. | 60 l/h |
| Rotation speed | ≥ 25 000 rpm |
| Compression ratio for N ₂ | >1 · 10 ⁹ |
| Compression ratio for H ₂ | 4.9 · 10 ³ |
| Compression ratio for He | 9 · 10 ⁴ |

| Compression ratio for Ar | >1 · 10 ⁹ |
|-------------------------------------|-------------------------------|
| Run-up time | <8 min |
| Gas throughput for N ₂ | 47.3 hPa·l/s |
| Gas throughput for Ar | 25.3 hPa·l/s |
| Fore-vacuum max. for N ₂ | 3 hPa |
| Fore-vacuum max. for Ar | 3.7 hPa |
| Cooling water flow | 60 l/h |
| Power consumption max. | 1,200 W |
| 03 Vacuum range | High Vacuum Ultra-high Vacuum |
| Rotation speed max. | 25,000 rpm |
| Pumping speed category max. | 2,800 l/s |
| Compression ratio | 1 · 10 ⁹ |
| Connection flange (in) | DN 250 ISO-F |
| Connection flange (out) | DN 40 50 ISO-KF |

| Order number | ATH 2804 MT, DN 250 ISO-F, water-cooled, heated, with integrated drive electronics |
|--|--|
| ATH 2804 MT, DN 250 ISO-F, water-cooled, heated, with integrated drive electronics | TMAAA6681101 |



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