



ATH 2303 M, DN 250 ISO-F, OBC V4 integrated drive electronics, Devicenet, Water cooled, Non-heated

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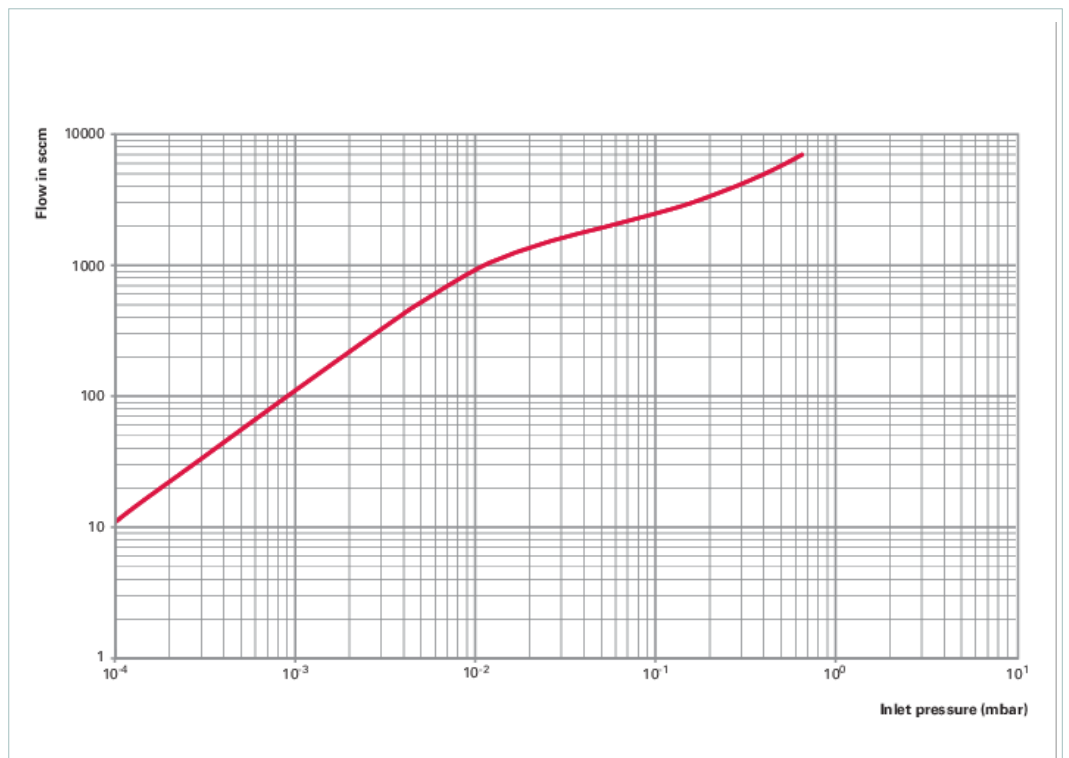
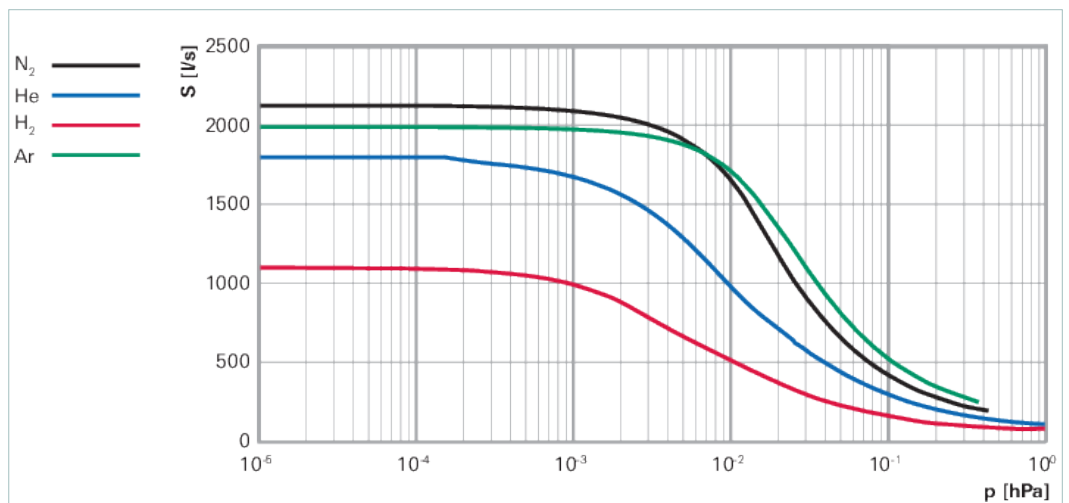




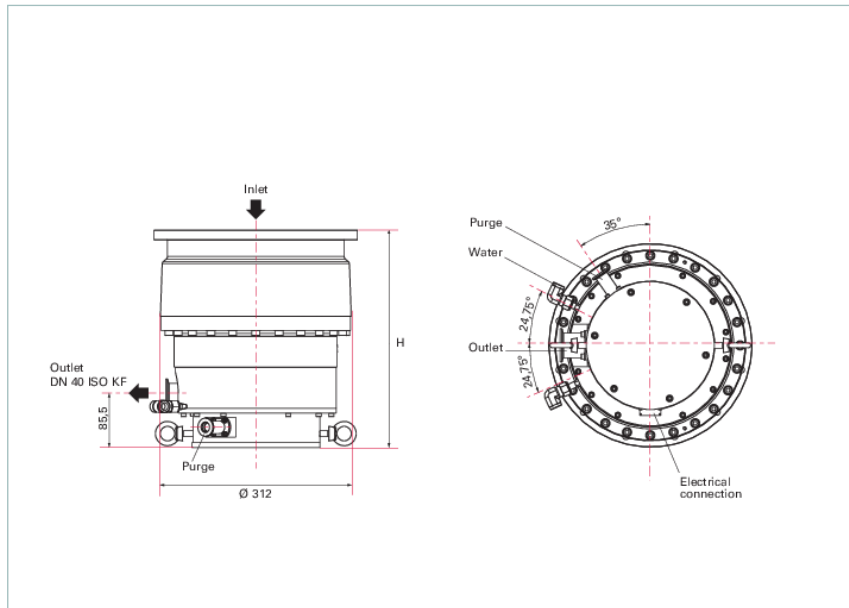
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- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N_2
- DN 250 ISO-F inlet flange
- Operation with OBC V4 integrated drive electronics
- Installation in any orientation
- Devicenet, Water cooled, Non-heated
- CE marked and ROHS compliant



Dimensions



H 343.5 mm

Technical Data

ATH 2303 M, DN 250 ISO-F, OBC V4 integrated drive electronics, Devicenet, Water cooled, Non-heated

| | |
|--|---|
| Bearing | Magnetically Levitated |
| Compression ratio for Ar | $> 1 \cdot 10^8$ |
| Compression ratio for H ₂ | $> 1 \cdot 10^3$ |
| Compression ratio for He | $> 3 \cdot 10^4$ |
| Compression ratio for N ₂ | $> 1 \cdot 10^8$ |
| Cooling method | Water |
| Cooling water consumption | 1 l/m |
| Cooling water temperature | 15-25 °C |
| Cooling water temperature max. | 40 °C 104 °F 313 K |
| Electronic drive unit | Integrated drive electronics |
| Flange (in) | DN 250 ISO-F |
| Flange (out) | DN 40 ISO-KF |
| Fore-vacuum max. for N ₂ | 2.9 hPa 2.17 Torr 2.9 mbar |
| Gas throughput for Ar | 25.4 hPa l/s 19.05 Torr l/s 25.4 mbar l/s |
| Gas throughput for H ₂ | > 67.6 hPa l/s > 50.7 Torr l/s > 67.6 mbar l/s |
| Gas throughput for He | > 67.6 hPa l/s > 50.7 Torr l/s > 67.6 mbar l/s |
| Gas throughput for N ₂ | 67.6 hPa l/s 50.7 Torr l/s 67.6 mbar l/s |
| Integrated power supply | YES |
| Interfaces | DeviceNet |
| Mounting orientation | in any orientation |
| Operating voltage | 200-240 V AC, 50/60 Hz |
| Power consumption at ultimate pressure | 350 W |
| Protection category | IP 54 |
| Pumping speed for Ar | 2000 l/s |
| Pumping speed for H ₂ | 1100 l/s |
| Pumping speed for He | 1800 l/s |
| Pumping speed for N ₂ | 2150 l/s |
| Pumping speed range | 2300 l/s |
| Rotation speed $\pm 2\%$ | 31,000 rpm 31,000 min ⁻¹ |
| Run-up time | < 8 min |
| Ultimate pressure | $< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar |
| Weight | 68 kg 149.91 lb |

| Order number | |
|--------------|--------------|
| ATH 2303 M | TMBBC662005A |

| Accessories | |
|--|---------|
| Electronic controllers | |
| Hand Held Remote (HHR) with cable | 114461 |
| Inlet screen | |
| Aluminum inlet screen kit for DN250 | 111640 |
| Stainless inlet screen kit for DN250 - M 5 | 108762 |
| Mounting kits | |
| Mounting bolts for ISO-F (for ATH 2300 M, DN 250; ATH 2800 M, DN 250) with centering ring | 110034 |
| Mounting bolts for ISO-F (for ATH 500 M, DN160; ATH 1600 M, DN 200/250; ATH 2300 M, ATH 2800 M, ATH 2804 M, DN 250) without centering ring | 110676S |
| Venting valves and other accessories | |
| Air venting valve (for OBC V4 and Magpower) | 114280 |
| Dust filter | 106229 |
| Purge valve 50 sccm | 111921S |
| Water inlet valve 24 V DC | 108668 |

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