



PROVAC
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Alcatel ATH-3200M

Technical Specifications

| | ATH 3200 M, VG 350, External drive electronics, Water cooled, Non-heated |
|--|---|
| Bearing | Magnetically Levitated |
| Compression ratio for Ar | $> 1 \cdot 10^8$ |
| Compression ratio for H ₂ | $> 2 \cdot 10^3$ |
| Compression ratio for He | $> 3 \cdot 10^4$ |
| Compression ratio for N ₂ | $> 1 \cdot 10^8$ |
| Cooling method | Water |
| Cooling water consumption | 1.0 l/min |
| Cooling water temperature | 15-25 °C 59-77 °F 288-298 K |
| Cooling water temperature max. | 40 °C 104 °F 313 K |
| Electronic drive unit | External drive electronics |
| Flange (in) | VG 350 |
| Flange (out) | DN 40 ISO-KF |
| Fore-vacuum max. for N ₂ | 2.1 hPa 1.58 Torr 2.1 mbar |
| Gas throughput for Ar | $> 37.2 \text{ hPa l/s}$ $> 27.9 \text{ Torr l/s}$ $> 37.2 \text{ mbar l/s}$ |
| Gas throughput for H ₂ | $> 84.5 \text{ hPa l/s}$ $> 63.38 \text{ Torr l/s}$ $> 84.5 \text{ mbar l/s}$ |
| Gas throughput for He | $> 84.5 \text{ hPa l/s}$ $> 63.38 \text{ Torr l/s}$ $> 84.5 \text{ mbar l/s}$ |
| Gas throughput for N ₂ | 84.5 hPa l/s 63.38 Torr l/s 84.5 mbar l/s |
| Interfaces | Via External drive electronics |
| Mounting orientation | in any orientation |
| Operating voltage | 200-240 V AC, 50/60 Hz |
| Power consumption at ultimate pressure | 400 W |
| Pumping speed for Ar | 2700 l/s |
| Pumping speed for H ₂ | 1700 l/s |
| Pumping speed for He | 2500 l/s |
| Pumping speed for N ₂ | 2800 l/s |
| Rotation speed $\pm 2 \%$ | 25000 min ⁻¹ |
| Run-up time | < 10 min |
| Separate electronic drive unit | yes |
| Sound pressure level | $\leq 45 \text{ dB (A)}$ |
| Ultimate pressure | $< 6 \cdot 10^{-9} \text{ hPa}$ $< 4.5 \cdot 10^{-9} \text{ Torr}$ $< 6 \cdot 10^{-9} \text{ mbar}$ |
| Weight | 85 kg 187.39 lb |



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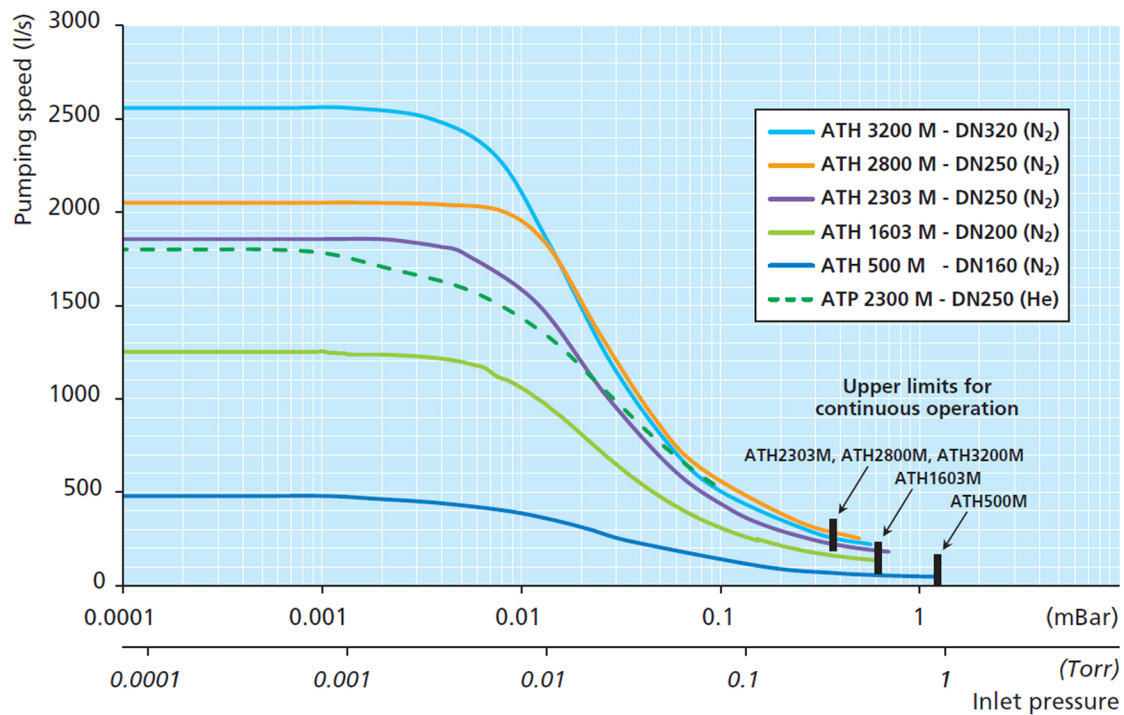
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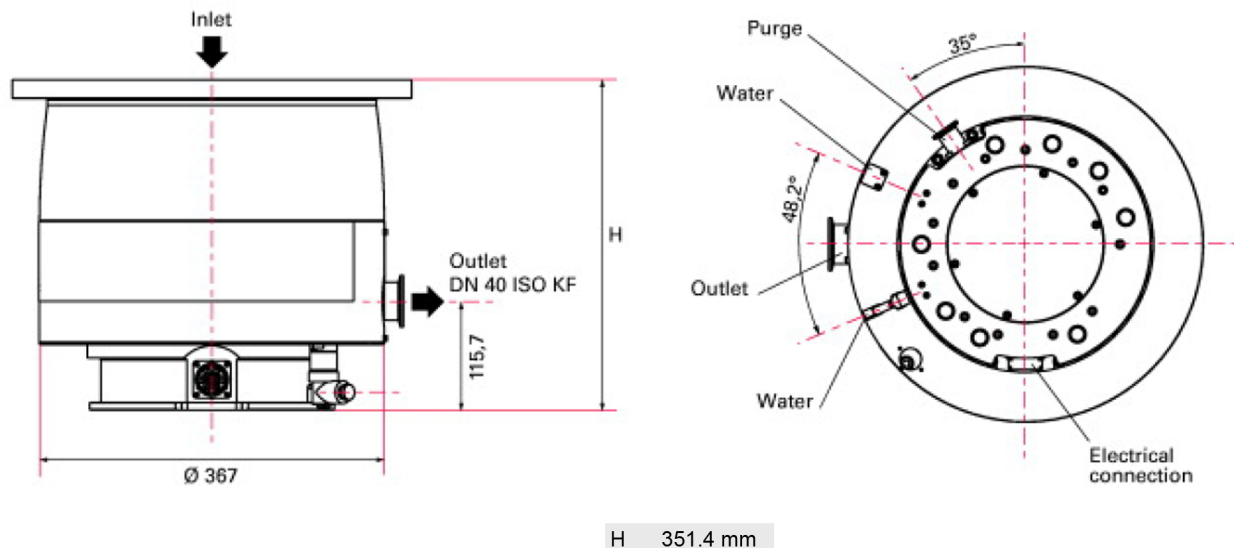
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Pumping Curves



Dimensions





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Features & Benefits

- installation in any orientation
- water cooled, non-heated
- high throughput for all process gases
- high foreline pressure tolerance
- maintenance free magnetic bearings
- high resistance to air inlet

Applications

- semiconductor • photovoltaic • FPD • glass coating • thin film coating
- CVD, PVD, HPDCVD • deposition • industrial

