

ATP 1603 M

Turbomolecular vacuum pumps

PFEIFFER 
VACUUM+FAB SOLUTIONS

Part of the **BUSCH** GROUP



Quiet

Low noise and vibration levels, perfectly suited for vibration-sensitive applications in semiconductor manufacturing processes and analytical instrumentation

Flexible

Compatible with a variety of backing pumps, excellent compression ratio for light gases

Maintenance-free

No wearing parts thanks to magnetic bearing technology, long maintenance intervals

Accessories, spare parts and options

- Installation kit
- Cooling water valve
- Purge gas valve
- Handheld remote controller
- Inlet protection screen
- Heater unit
- Valve cable and coil
- Various inlet flange types
- Various user interfaces

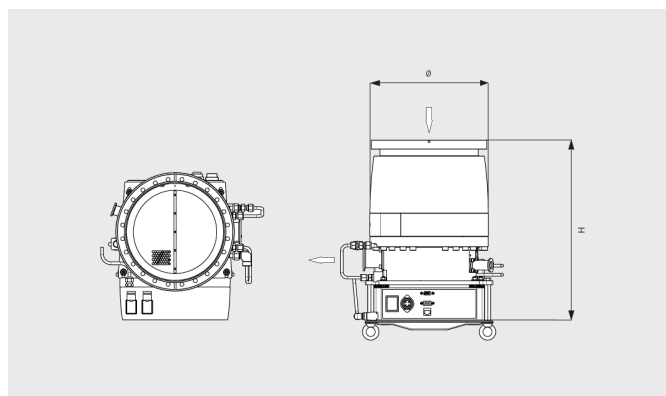
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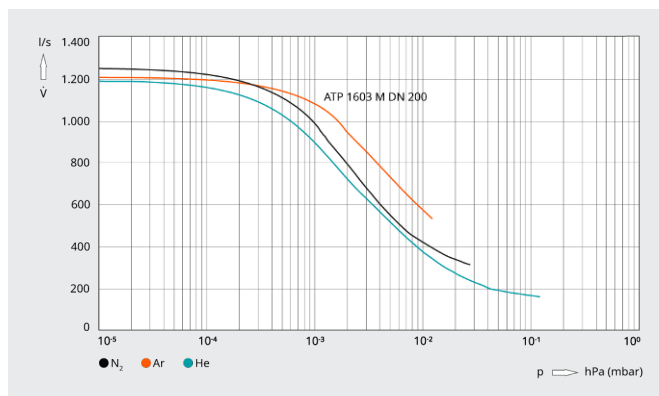
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Dimensional drawing



Pumping speed



ATP 1603 M	
Pumping speed N ₂	1250 l/s
Pumping speed Ar	1180 l/s
Pumping speed He	1220 l/s
Pumping speed H ₂	990 l/s
Compression ratio (ISO 5302) N ₂	$> 1 \cdot 10^7$ l/s
Compression ratio (ISO 5302) Ar	$> 1 \cdot 10^8$ l/s
Compression ratio (ISO 5302) He	$2 \cdot 10^4$ l/s
Compression ratio (ISO 5302) H ₂	$3.5 \cdot 10^3$ l/s
Ultimate pressure	$< 1 \cdot 10^{-8}$ mbar
Max. forevacuum N ₂	0.8 mbar
Max. forevacuum Ar	1.5 mbar
Max. inlet vacuum N ₂	0.4 mbar
Max. inlet vacuum Ar	0.027 mbar
Gas throughput at final rotational speed Ar	600 sccm
Rotational speed	37000 rpm
Rotational speed variable	15000 rpm to nominal speed

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Run-up time up to 90% of final rotational speed, with pressure exhaust < 0.1 mbar	< 5.3 min
Controller power supply	200-240 V, 50/60 Hz Single-phase
Max. power consumption for start-up	800 W
Nominal power (stand-by power)	120 W
Max. bakeout temperature	120 °C
Recommended backing pump	ADP/ADS
Sound pressure level (ISO 2151) 1m distance at nominal speed	< 48 dB(A)
Vibration level at nominal speed	< 0.01 µm
Dimensions (Ø x H)	259 x 386* mm
Gas inlet / outlet	DN 200 / DN 40 ISO-KF
N ₂ purge flange	DN 16 ISO-KF
Stainless steel inlet screen (factory setting)	yes
Permissible magnetic field (radial value) at 10 cm	< 12 mT
On-board control option	Profibus, Remote

* depending on flange variant

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!



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