ATH 4506 M/MT

Turbomolecular vacuum pumps

PFEIFFER VACUUM+FAB SOLUTIONS

Part of the BUSCH GROUP



High temperature and flow

Wide process range, high corrosion resistance

Self-diagnostics

Built-in sensor for performance diagnostics, maintenance optimizations and external communications

Economical

Optimized temperature management, low power and cooling water consumption, low cost of ownership

Accessories, spare parts and options

- Protective seal gas purge valve
- Cooling water valve
- Handheld remote control
- Protective filter for inlet flange
- Mounting kit
- Inlet flanges: VG350 or VG400
- Exhaust flanges: DN40 or DN50
- Various heating options
- Additional middle purge for harsh processes
- Rotor temperature sensor
- Purge presence sensor
- Input power: 200, 440 or 480 VAC

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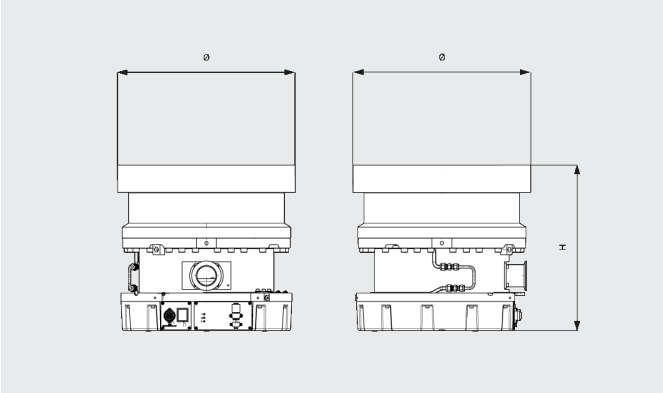
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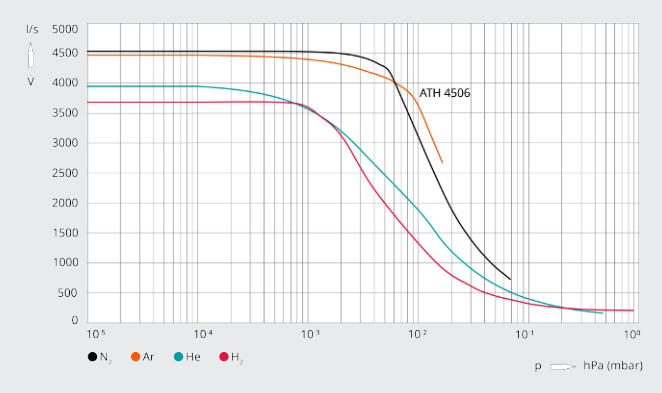
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Dimensional drawing



Pumping speed



	ATH 4506 MT	ATH 4506 M
Pumping speed N_2	4500 l/s	4500 l/s
Pumping speed Ar	4370 l/s	4370 l/s
Pumping speed He	3900 l/s	3900 l/s
Pumping speed H_2	3700 l/s	3700 l/s
Ultimate pressure	< $1 \cdot 10^{-8}$ mbar	< $1 \cdot 10^{-8}$ mbar
Max. forevacuum N_2	3.5 mbar	3.5 mbar
Max. forevacuum Ar	3.5 mbar	3.5 mbar
Max. inlet vacuum N_2	0.5 mbar	0.5 mbar
Max. inlet vacuum Ar	0.22 mbar	0.22 mbar
Gas throughput at final rotational speed N_2	5500 sccm	6550 sccm
Gas throughput at final rotational speed Ar	2800 sccm	3500 sccm
Recommended purge flow rate	100 sccm	0-100 sccm
Rotational speed	23500 rpm	23500 rpm
Rotational speed variable	15000 rmp to nominal speed	15000 rmp to nominal speed
Run-up time up to 90% of final rotational speed, with pressure exhaust < 0.1 mbar	< 9 min	< 9 min
Controller power supply	230/440/480 V AC	230/440/480 V AC

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Max. power consumption for start-up	2000 W	2000 W
Nominal power (stand-by power)	220 W	220 W
Max. current consumption	14 A	14 A
Max. heating temperature	50-95 °C	-
Recommended cooling water flow rate	60-180 l/h	60-180 l/h
Cooling water temperature	15-35 °C	15-35 °C
Remote controller type	Pump-mounted controller	Pump-mounted controller
Dimensions (Ø x H)	450 x 422 mm	450 x 422 mm
Weight approx.	140 kg	140 kg
Gas inlet	VG350, VG400, VF350	VG350, VG400, VF350
Gas outlet	DN 40 ISO-KF (standard) | DN 50 ISO-KF (optional)	DN 40 ISO-KF (standard) | DN 50 ISO-KF (optional)
On-board control option	Remote, EtherCAT	Remote, EtherCAT

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!

CONTACT FORM

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