

Adixen Hybrid Turbomolecular Pumps

ATH Series

OPTIMIZED FOR HEAVY DUTY AND LOW PRESSURE APPLICATIONS

The Adixen ATH series offers hybrid turbomolecular pumps for 200 to 300 l/s:

- ATH 200
- ATH 300

The pump design principle of turbomolecular stages exhausting to Holweck stages provides high pumping capacity, low inlet pressure and high exhaust pressure.

These pumps provide a clean, dry vacuum (hydrocarbon and particulate free) when backed by a membrane (AMD) or multi-roots (ACP) pump.

FEATURES

- Low rotational speed
- Grease lubricated bearings
- Intermediate vacuum ports

BENEFITS

- Robust against:
 - Shock
 - Movement
 - Air inrush
- Pump may be mounted in any orientation:
 - only one part number to order, stock and maintain
- Pump a volume or back another pump
- Connect a less expensive vacuum gauge to monitor the inlet pressure
- Connect a venting valve to provide a more compact solution

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Technical specifications

Specifications	Units	ATH 200 (I)	ATH 300 (CI)
Inlet flange	ISO-K or CF-F	DN100	DN100 (DN160)
Pumping speed (N ₂)	N ₂ l/s	200	250 (300)
Pumping speed (He)	He l/s	130	215 (240)
Compression ratio (N ₂)		> 10 ⁹	> 10 ⁹
Compression ratio (He)		10 ⁵	10 ⁵
Ultimate pressure (*)	mbar	< 5.10 ⁻¹⁰	< 5.10 ⁻¹⁰
Maximum inlet pressure	mbar	4.10 ⁻³	0.1
Maximum exhaust pressure	mbar	4	10
Intermediate port			
- Flange	ISO-KF	DN25	DN16
- Pumping speed (N ₂)	l/s	10	5
- Pumping speed (He)	l/s	8	5
Recommended primary pump		PPM, ACP, AMD	PPM, ACP, AMD
Exhaust flange		DN16	DN25
Orientation		Any	Any
Rotational speed	RPM	36000	42000
Noise level	dB(A)	< 53	< 53
Vibration level	mm/s	< 0.3	< 0.3
Maximum power	VA	100	300
Start-up time	min	< 6	< 3.5
Weight ISO-K/CF-F	kg	5.5 / 9.7	6.5 / 10.5
Cooling		natural, air, water	natural, air, water
Dimension h, d (ISO-K)	mm	187, 156	200, 160

(*) : measured following Pneurop standard (CF-F flanges, after 48 hours of baking with Pascal primary pump).

Monitoring

Pumps	Controllers
ATH 200	ACT 202TH
ATH 300	ACT 600TH

Pump configurations and applications

Pumps	Pump configurations	Application examples
ATH 200	Standard and I with the intermediate port : Flanges ISO-K and CFF	Constant low pressure applications such as mass spectrometers and electron microscope chambers
ATH 300	Standard and CI for corrosive gases with an intermediate port: nude, Flanges ISO-K and CFF	CD/DVD replicators, sputtering, Load-Lock, fundamental physics experiments, analytical instruments load lock

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