



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

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Devicenet, Water cooled, Non-heated

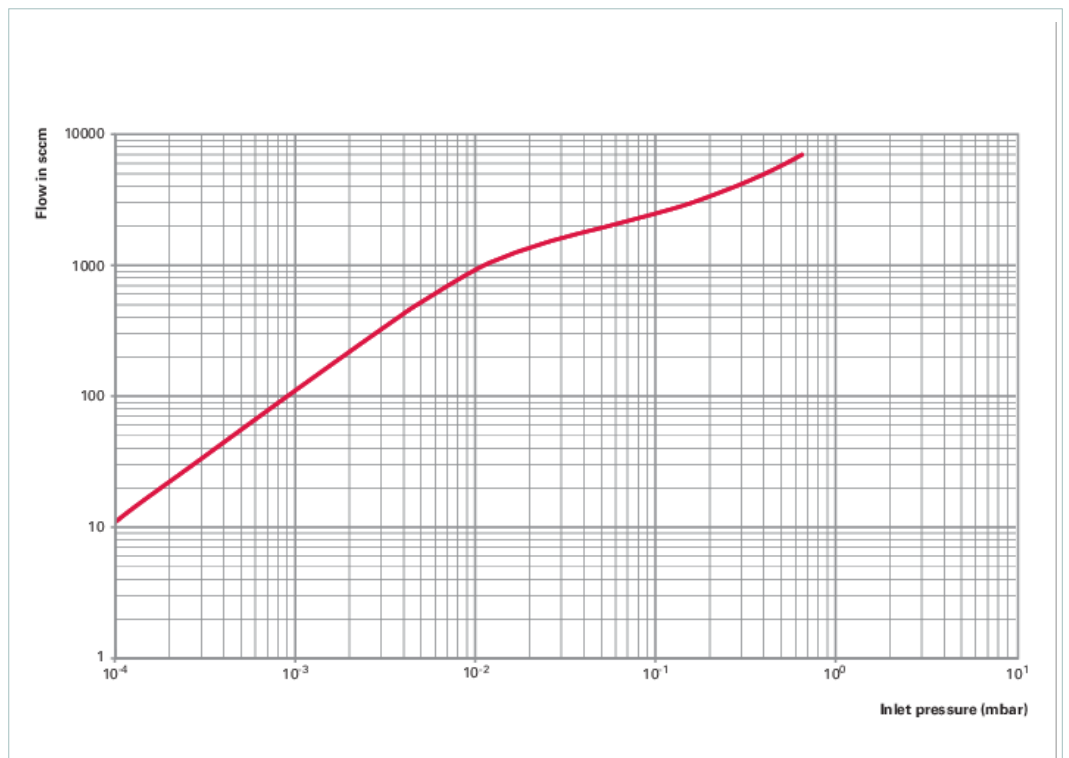
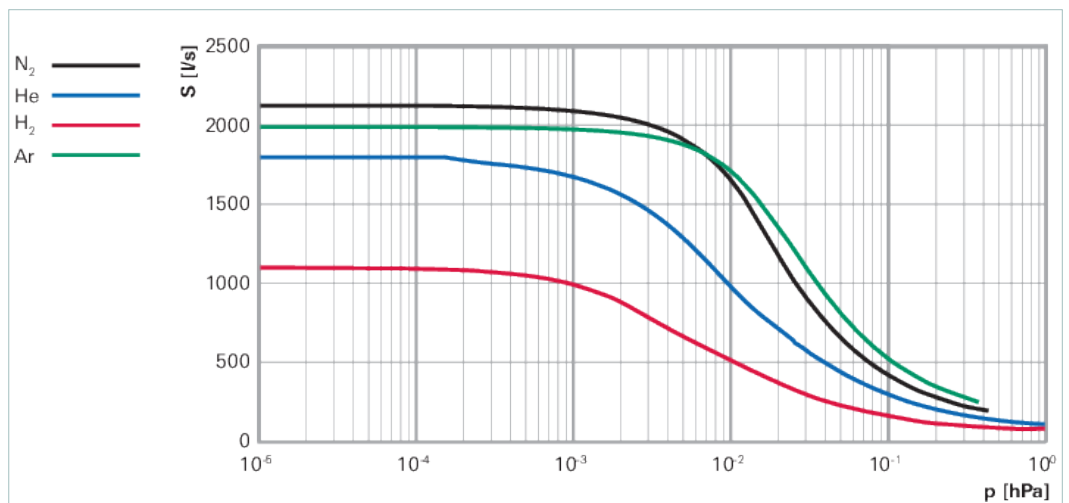




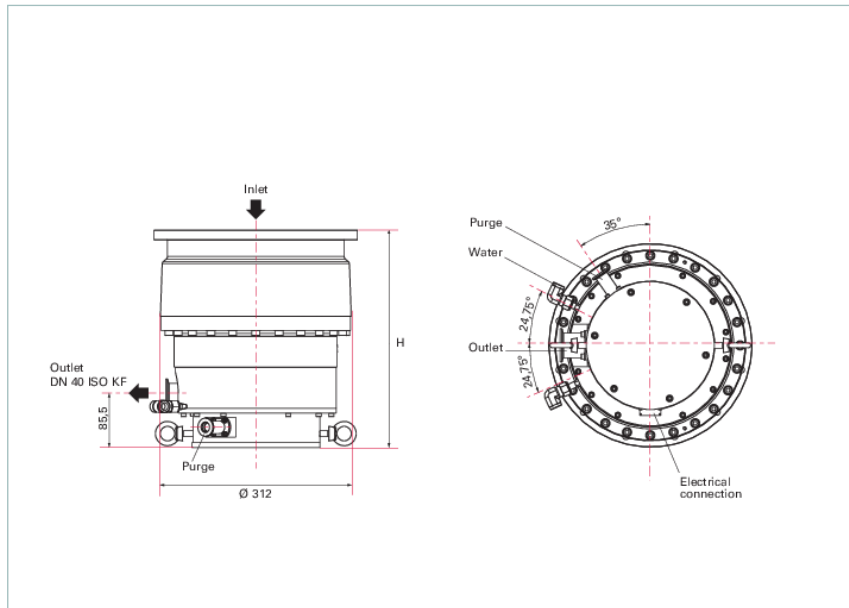
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## ATH 2303 M, DN 250 CF-F, OBC V4 integrated drive electronics, Devicenet, Water cooled, Non-heated

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 2150 l/s for N<sub>2</sub>
- DN 250 CF-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 398.1 mm

## Technical Data

### ATH 2303 M, DN 250 CF-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 <sub>2</sub>	$> 1 \cdot 10^3$
Compression ratio for He	$> 3 \cdot 10^4$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^8$
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 CF-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	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 <sub>2</sub>	$> 67.6$ 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 <sub>2</sub>	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 <sub>2</sub>	1100 l/s
Pumping speed for He	1800 l/s
Pumping speed for N <sub>2</sub>	2150 l/s
Pumping speed range	2300 l/s
Rotation speed $\pm 2\%$	31,000 rpm   31,000 min <sup>-1</sup>
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	TMBBC622005A

Accessories	
<b>Electronic controllers</b>	
Hand Held Remote (HHR) with cable	114461
<b>Inlet screen</b>	
Aluminum inlet screen kit for DN250	111640
Stainless inlet screen kit for DN250 - M 5	108762
<b>Mounting kits</b>	
Mounting bolts for CF-F (for ATH 500 M, DN100/160; ATH 2300 M, DN 200/250)	118690
<b>Rotatable flange</b>	
Rotatable flange DN250 CF-F	303133
<b>Venting valves and other accessories</b>	
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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