



ATH 1603 M, DN 250 ISO-F, External drive electronics, Water cooled, Non-heated

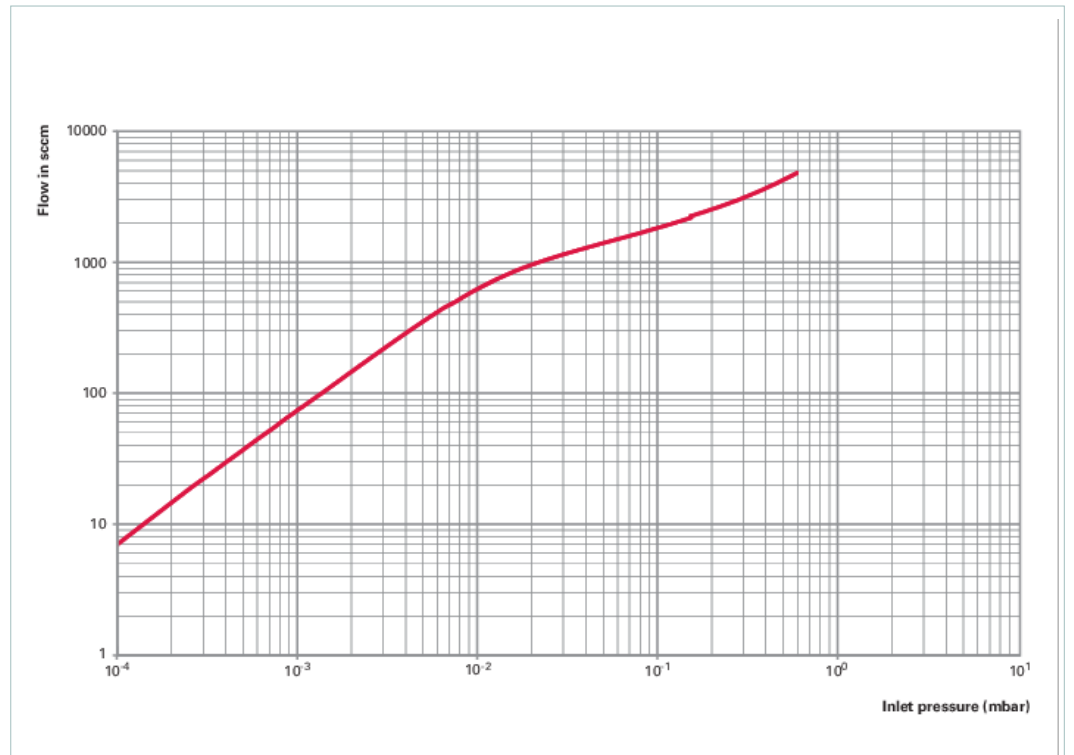
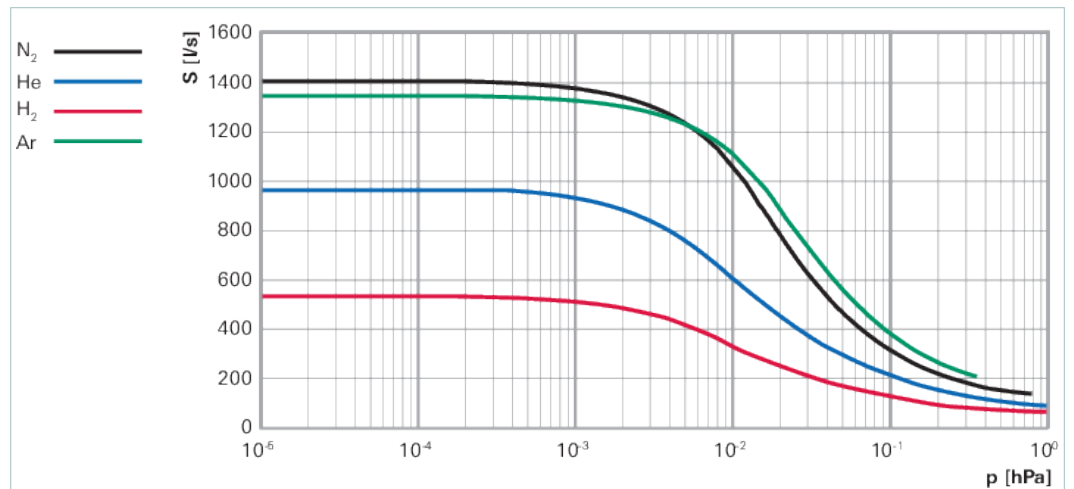
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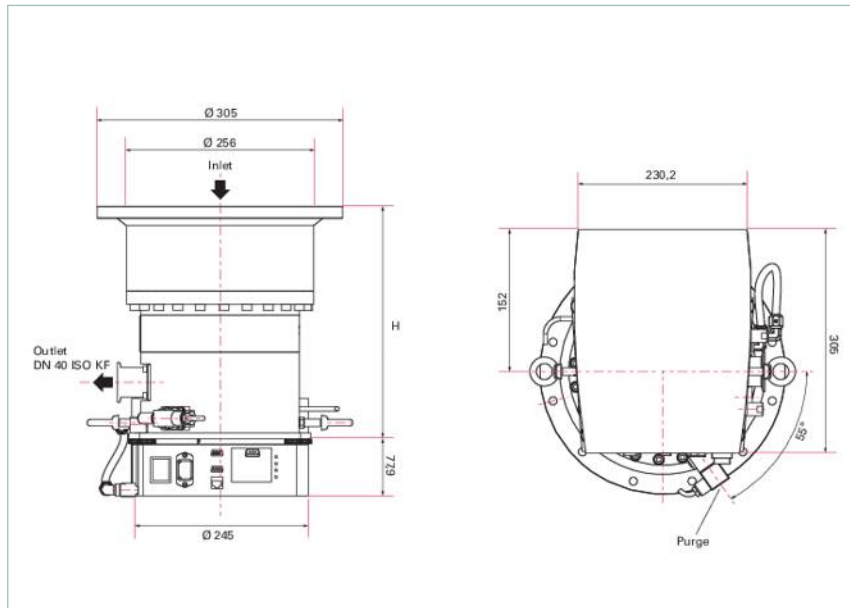
Similar Image

ATH 1603 M, DN 250 ISO-F, External drive electronics, Water cooled, Non-heated

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 1400 l/s for N₂
- DN 250 ISO-F inlet flange
- Operation with Magpower external drive electronics
- Installation in any orientation
- Water cooled, Non-heated
- CE marked and ROHS compliant



Dimensions



H 317.2 mm

Technical Data	ATH 1603 M, DN 250 ISO-F, External drive electronics, Water cooled, Non-heated
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H ₂	$> 5 \cdot 10^2$
Compression ratio for He	$> 4 \cdot 10^4$
Compression ratio for N ₂	$> 1 \cdot 10^8$
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	External drive electronics
Flange (in)	DN 250 ISO-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N ₂	1.7 hPa 1.27 Torr 1.7 mbar
Gas throughput for Ar	20.3 hPa l/s 15.22 Torr l/s 20.3 mbar l/s
Gas throughput for H ₂	> 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 ₂	67.6 hPa l/s 50.7 Torr l/s 67.6 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	300 W
Pumping speed for Ar	1350 l/s
Pumping speed for H ₂	540 l/s
Pumping speed for He	970 l/s
Pumping speed for N ₂	1400 l/s
Rotation speed $\pm 2\%$	39,000 rpm 39,000 min ⁻¹
Run-up time	< 6 min
Separate electronic drive unit	YES
Ultimate pressure	$< 6 \cdot 10^{-9}$ hPa $< 4.5 \cdot 10^{-9}$ Torr $< 6 \cdot 10^{-9}$ mbar
Weight	34 kg 74.96 lb

Order number

ATH 1603 M

Y2662100

Accessories	
Electronic controllers	
Magpower controller	120917
Inlet screen	
Aluminum inlet screen kit for DN250	111640
Stainless inlet screen kit for DN250 - M 5	108762
Interconnecting cable (pump to Magpower external drive electronics)	
Interconnecting cable (pump to Magpower external drive electronics), L = 1.0 m	A215300-010-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 10.0 m	A215300-100-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 20.0 m	A215300-200-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 3.5 m	A215300-035-C6-D
Interconnecting cable (pump to Magpower external drive electronics), L = 5.0 m	A215300-050-C6-D
Mounting kits	
Mounting bolts for ISO-F (for ATH 1600 M, DN 200/250) with centering ring	110675
Mounting bolts for ISO-F (for ATH 500 M, DN160; ATH 1600 M, DN 200/250; ATH 2300 M, ATH 2800 M, ATH 2804 M, DN 250) without centering ring	110676S
Power cord	
Power cord 2.5 m Europe standard 200 - 240 V AC	A328405
Power cord 2.5 m US standard 200 - 240 V AC	A331729
Valve cable (external drive electronics to venting valve)	
Valve cable (Magpower external drive electronics to venting valve), L = 1.0 m	A462403-010
Valve cable (Magpower external drive electronics to venting valve), L = 10.0 m	A462403-100
Valve cable (Magpower external drive electronics to venting valve), L = 20.0 m	A462403-200
Valve cable (Magpower external drive electronics to venting valve), L = 3.5 m	A462403-035
Valve cable (Magpower external drive electronics to venting valve), L = 5.0 m	A462403-050
Venting valves and other accessories	
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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