



## Data sheet · ATH 1600 MT

**ATH 1600 MT, DN 200 ISO-F, External  
drive electronics, Water cooled,  
Heated**

**5-axis magnetically levitated turbopump with drag stage for a  
pump speed of up to 1360 l/s for N<sub>2</sub>**

## ATH 1600 MT, DN 200 ISO-F, External drive electronics, Water cooled, Heated

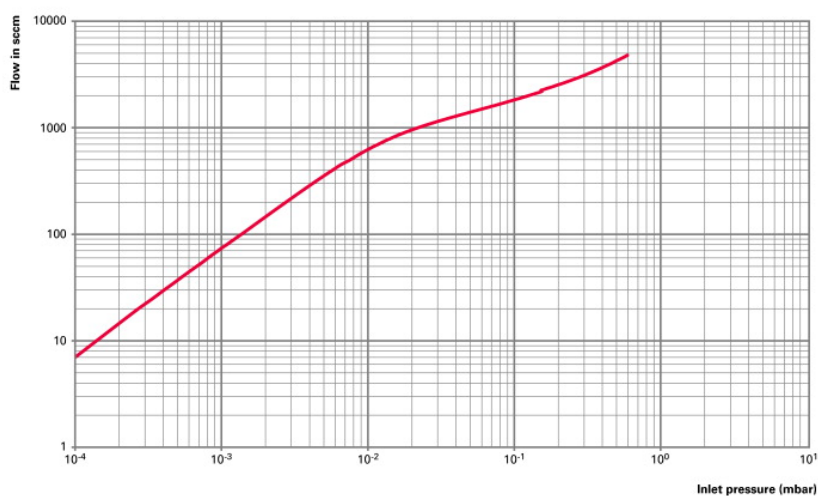
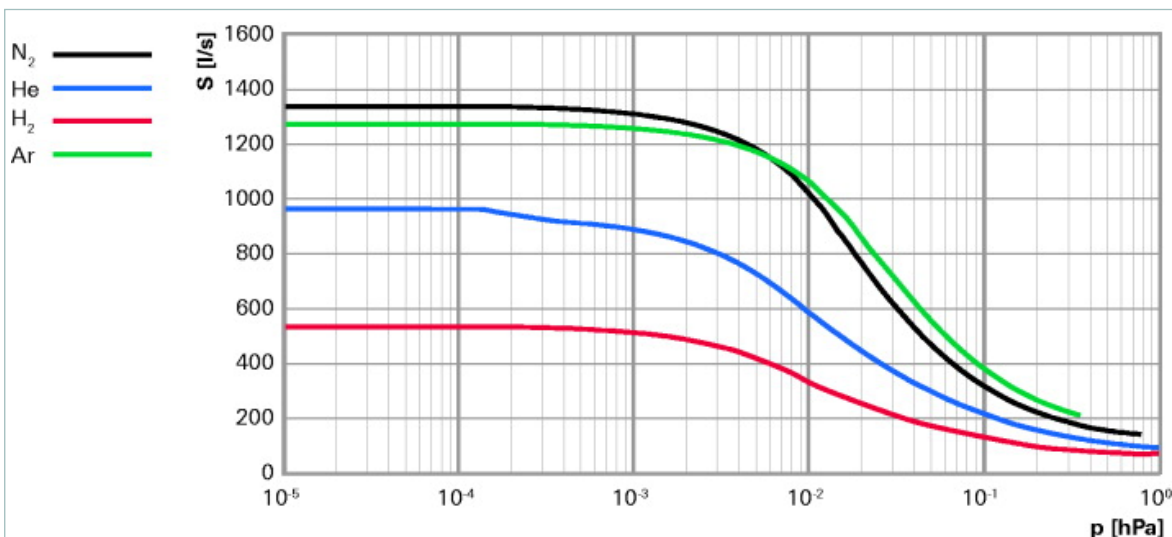
### ATH 1600 MT

Similar Image



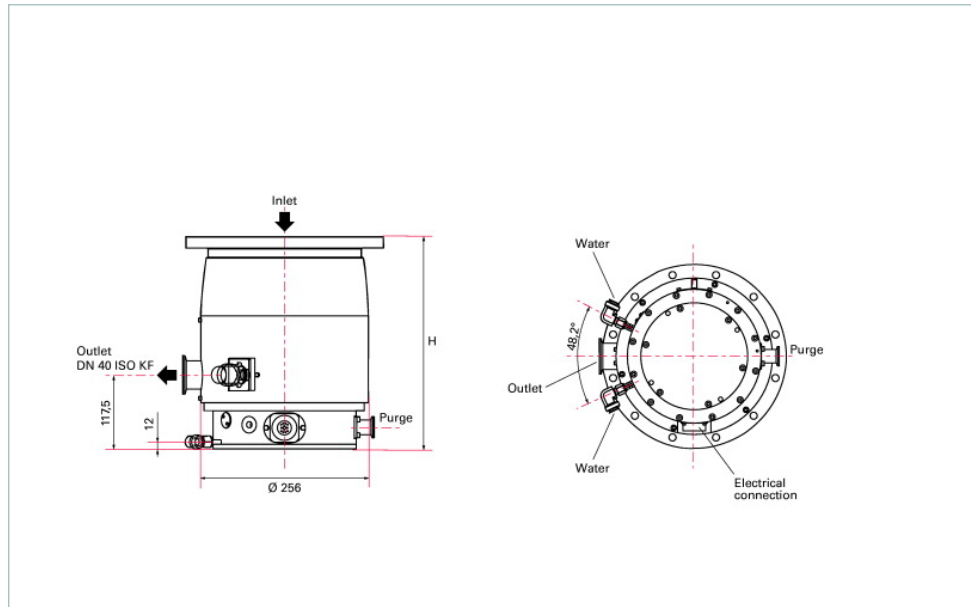
- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 1360 l/s for N<sub>2</sub>
- DN 200 ISO-F inlet flange
- Operation with Magpower external drive electronics
- Installation in any orientation
- Water cooled, Heated
- CE marked and ROHS compliant

### Characteristics



## ATH 1600 MT, DN 200 ISO-F, External drive electronics, Water cooled, Heated

### Dimensions



H 316.9 mm

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### Technical Data

**ATH 1600 MT,  
DN 200 ISO-F,  
External drive  
electronics,  
Water cooled,  
Heated**

Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H <sub>2</sub>	$> 5 \cdot 10^2$
Compression ratio for He	$> 4 \cdot 10^3$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^8$
Cooling method	Water
Cooling water consumption	1.0 l/min
Cooling water temperature	15-25 °C
Cooling water temperature max.	40 °C
Corrosive gas version	yes
Electronic drive unit	External drive electronics
Flange (in)	DN 200 ISO-F
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	2.2 hPa
Gas throughput at full rotational speed for Ar, heated pump at 75 °C	8.5 hPa l/s
Gas throughput at full rotational speed for H <sub>2</sub> , heated pump at 75 °C	$> 16.9$ hPa l/s
Gas throughput at full rotational speed for N <sub>2</sub> , heated pump at 75 °C	16.9 hPa l/s
Gas throughput for Ar	20.3 hPa l/s
Gas throughput for H <sub>2</sub>	$> 67.6$ hPa l/s
Gas throughput for He	$> 67.6$ hPa l/s
Gas throughput for N <sub>2</sub>	67.6 hPa l/s
Interfaces	Via External drive electronics
Mounting orientation	in any orientation
Operating voltage	200-240 V AC, 50/60 Hz
Particulate matter	yes
Power consumption at ultimate pressure	300 W
Pumping speed for Ar	1280 l/s
Pumping speed for H <sub>2</sub>	540 l/s
Pumping speed for He	940 l/s
Pumping speed for N <sub>2</sub>	1360 l/s
Rotation speed $\pm 2$ %	39000 min <sup>-1</sup>
Run-up time	< 6 min
Separate electronic drive unit	yes

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Sound pressure level	<= 48 dB (A)
Ultimate pressure	< 6 · 10 <sup>-9</sup> hPa
Weight	34 (pump) + 8 (controller) kg

<b>Order number</b>	<b>P6562100</b>
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### Electronic controllers

Magpower controller	<b>120917</b>
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### Heater band cables and water valve cables

Heater band cable (for MT pumps only), L = 1.0 m	<b>A460082-010</b>
Heater band cable (for MT pumps only), L = 10.0 m	<b>A460082-100</b>
Heater band cable (for MT pumps only), L = 20.0 m	<b>A460082-200</b>
Heater band cable (for MT pumps only), L = 3.5 m	<b>A460082-035</b>
Heater band cable (for MT pumps only), L = 5.0 m	<b>A460082-050</b>
Water valve cable (for MT pumps only), L = 1.0 m	<b>A462401-010</b>
Water valve cable (for MT pumps only), L = 10.0 m	<b>A462401-100</b>
Water valve cable (for MT pumps only), L = 20.0 m	<b>A462401-200</b>
Water valve cable (for MT pumps only), L = 3.5 m	<b>A462401-035</b>
Water valve cable (for MT pumps only), L = 5.0 m	<b>A462401-050</b>

### Inlet screen

Aluminum inlet screen kit for DN200	<b>109200</b>
Stainless inlet screen kit for DN200 - M 4.5	<b>108872</b>

### Interconnecting cable (pump to Magpower external drive electronics)

Interconnecting cable (pump to Magpower external drive electronics), L = 1.0 m	<b>A215300-010-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 10.0 m	<b>A215300-100-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 20.0 m	<b>A215300-200-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 3.5 m	<b>A215300-035-C6-D</b>
Interconnecting cable (pump to Magpower external drive electronics), L = 5.0 m	<b>A215300-050-C6-D</b>

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### Mounting kits

Mounting bolts for ISO-F (for ATH 1600 M, DN 200/250) with centering ring	<b>110675</b>
Mounting bolts for ISO-F (for ATH 500 M, DN160; ATH 1600 M, DN 200/250; ATH 2300 M, DN 250; ATH 2800 M, DN 250) without centering ring	<b>110676S</b>

### Power cord

Power cord 2.5 m Europe standard 200 - 240 V AC	<b>A328405</b>
Power cord 2.5 m US standard 200 - 240 V AC	<b>A331729</b>

### Valve cable (external drive electronics to venting valve)

Valve cable (Magpower external drive electronics to venting valve), L = 1.0 m	<b>A462403-010</b>
Valve cable (Magpower external drive electronics to venting valve), L = 10.0 m	<b>A462403-100</b>
Valve cable (Magpower external drive electronics to venting valve), L = 20.0 m	<b>A462403-200</b>
Valve cable (Magpower external drive electronics to venting valve), L = 3.5 m	<b>A462403-035</b>
Valve cable (Magpower external drive electronics to venting valve), L = 5.0 m	<b>A462403-050</b>

### Venting valves and other accessories

Air venting valve (for OBC V4 and Magpower)	<b>114280</b>
Dust filter	<b>106229</b>
Purge valve 25 sccm	<b>118900</b>
Purge valve 50 sccm	<b>111921</b>
Water inlet valve 24 V DC	<b>108668</b>

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