



ATH 3204 MT, DN 320 ISO-F, water-cooled, heated, with integrated drive electronics

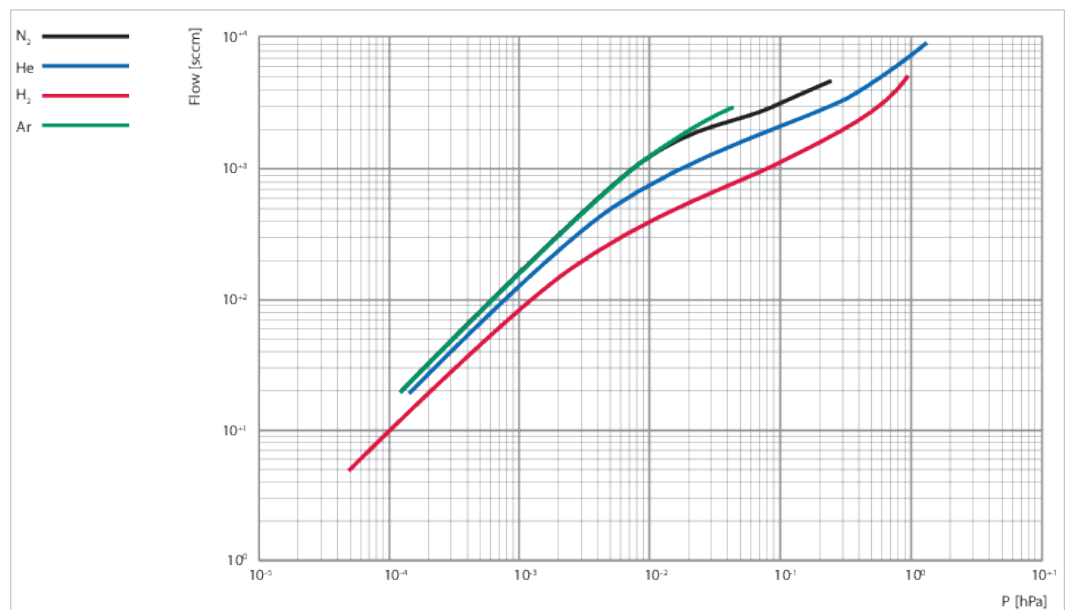
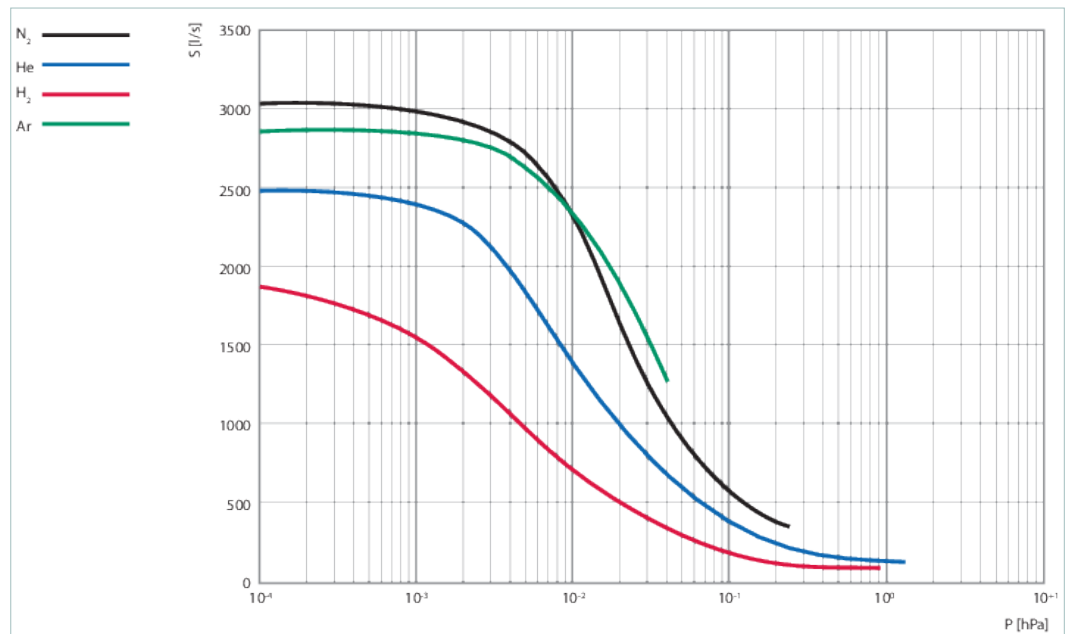
ATH 3204 MT, DN 320 ISO-F, Remote, Water cooled, Heated,
integrated drive electronic



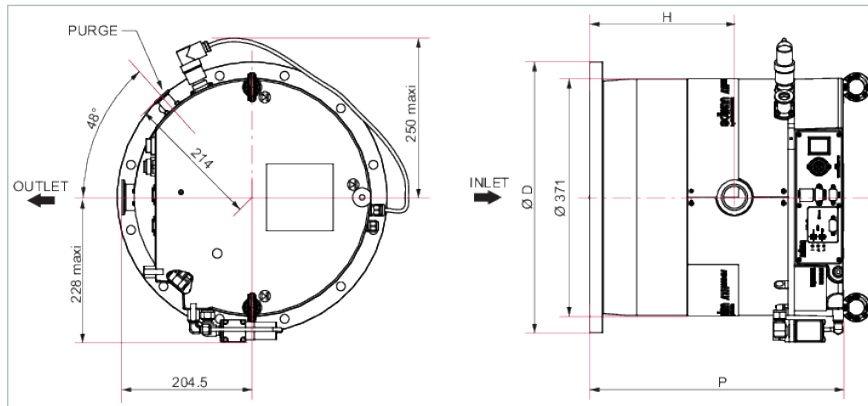
Similar Image

ATH 3204 MT, DN 320 ISO-F, water-cooled, heated, with integrated drive electronics

- 5-axis magnetically levitated turbopump with drag stage for a pump speed of up to 3050 l/s for N₂
- DN 320 ISO-F inlet flange
- Integrated drive electronics
- Installation in any orientation
- Remote, Water cooled, Temperature management System, pump integrated drive electronics
- CE marked and ROHS compliant



Dimensions



D	425 mm
H	228 mm
P	400 mm

Technical Data

ATH 3204 MT, DN 320 ISO-F, water-cooled, heated, with integrated drive electronics

Bearing	Magnet
Compression ratio for Ar	$> 1 \cdot 10^9$
Compression ratio for H ₂	$4.9 \cdot 10^3$
Compression ratio for He	$9 \cdot 10^4$
Compression ratio for N ₂	$> 1 \cdot 10^9$
Connection flange (in)	DN 320 ISO-F
Connection flange (out)	DN 40/50 ISO-KF
Cooling method	Water
Cooling water flow	60 l/h
Cooling water flow, max.	60 l/h
Cooling water flow, min.	60 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Electronic drive unit	integrated drive electronics
Final pressure	$< 1 \cdot 10^{-8}$ hPa $< 7.5 \cdot 10^{-9}$ Torr $< 1 \cdot 10^{-8}$ mbar
Fore-vacuum max. for Ar	3.7 hPa 2.77 Torr 3.7 mbar
Fore-vacuum max. for N ₂	3 hPa 2.25 Torr 3 mbar
Gas throughput for Ar	25.3 hPa·l/s
Gas throughput for N ₂	47.5 hPa·l/s
I/O interfaces	Remote
Motor type	1-ph motor
Mounting orientation	Arbitrary
N ₂ sealing gas flow	0.05 slpm (0 °C)
Power consumption at final pressure	590 W
Power consumption max.	1200 W
Protection degree	IP54
Pumping speed for Ar	2900 l/s
Pumping speed for H ₂	1700 l/s
Pumping speed for He	2500 l/s
Pumping speed for N ₂	3050 l/s
Rotation speed	$\geq 25,000$ rpm $\geq 25,000$ min ⁻¹
Rotation speed in stand-by mode	15,000-25,000 rpm 15,000-25,000 min ⁻¹
Run-up time	< 8 min
Separate electronic drive unit	NO
Sound pressure level	<45 dB(A)
Switch-point: Temperature	55-85 °C 131-185 °F 328-358 K
Typical oscillation train (at inlet flange 10-1000 Hz)	0.01 µm

Order number

ATH 3204 MT

TMAAAC681101

Accessories	
Connections Connection kits for mounting of pumps	
Connection kit for mounting pumps, DN 40 ISO-KF	120SWS040-1000
Control Devices Power supplies and control displays	
Hand held remote (HHR) with cable	114461
Monitoring Pressure Sensors	
OmniControl 200 with PKR 361, 25 KF	PT 440 955 -T
Mounting Mounting kits for ATH-M <verteilen>	
Screw Set for ISO-F (for ATH 3204 M, DN 320) without Centering Ring	122531S
Protection Inlet screens	
Stainless inlet filter for DN 320 - M 8	112132
Valves Isolation valves	
UHV gate valve, DN 320 CF, UNF, electro-pneumatic, PI (RS)/PV 24 V DC, SS/Cu/FKM	GVMP-S13642

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