

HiPace® 300

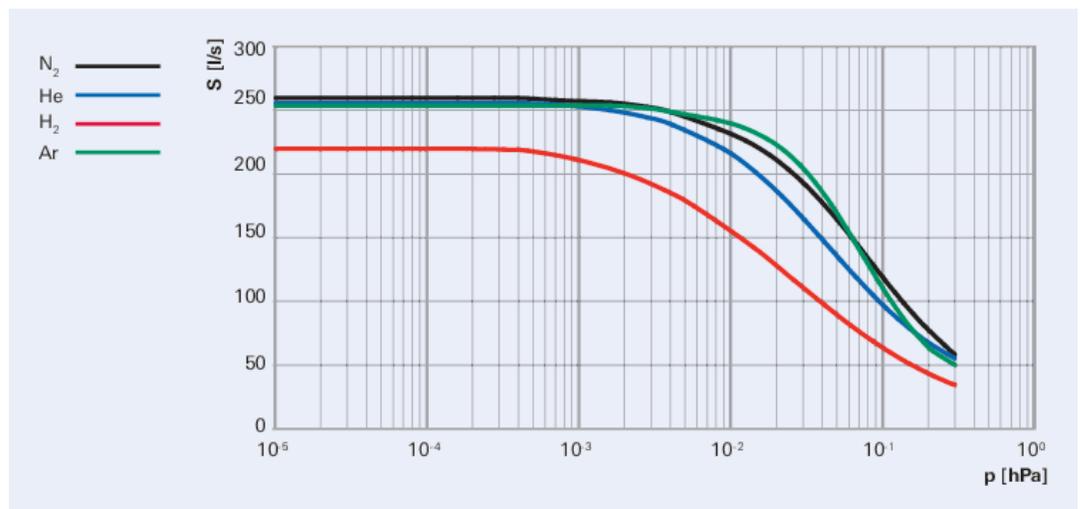


Illustration only

HiPace® 300 with TC 400, Profibus, DN 100 CF-F

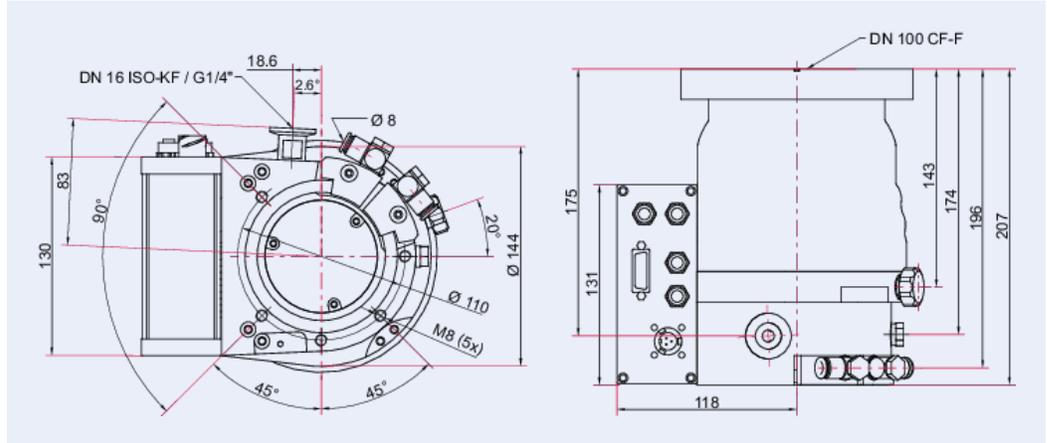
- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- Integrated drive electronics TC 400 with Profibus
- Ideal for UHV applications
- For installation in any orientation
- With integrated water cooling for maximum gas throughput
- Flexible through the ability to employ up to 4 accessories
- Profibus connection with M12-plug-in connector
- Ideal for fast cycles
- Extensive accessories expand the range of applications
- Corrosive gas version on request

Characteristics



HiPace® 300

Dimensions



HiPace® 300

Technical Data	HiPace® 300 with TC 400, Profibus, DN 100 CF-F
Electronic drive unit	TC 400
Type of electronic drive unit installation	Integrated electronic drive unit
Position of power supply pack	External power supply pack
Cooling method	Water
Pumping speed	792 – 936 m ³ /h
Pumping speed category	1080 m ³ /h
Pumping speed for He	255 l/s
Pumping speed for N ₂	260 l/s
Vacuum range min	5 · 10 ⁻¹⁰ hPa
Vacuum range max	5 · 10 ⁻¹⁰ hPa
I/O interfaces	RS-485, Remote, Profibus
Cooling water temperature	15 – 35 °C
Venting connection	G 1/8"
Bearing	Hybrid
Cooling method, optional	Air (forced convection)
Current max.	12.5 A
Mounting orientation	Arbitrary
Temperature: Storage, max	55 °C
Temperature: Storage, min	-20 °C
Pumping speed for Ar	255 l/s
Pumping speed for H ₂	220 l/s
Input voltage(s)	24 V DC (±10 %)
Emission sound pressure level (EN ISO 2151)	≤50 dB(A)
Gas throughput at final rotation speed for H ₂	14 hPa·l/s
Gas throughput at final rotation speed for He	20 hPa·l/s
Run-up time	1.8 min
Compression ratio for Ar	1 · 10 ¹¹
Compression ratio for H ₂	9 · 10 ⁵
Compression ratio for He	1 · 10 ⁸
Compression ratio for N ₂	1 · 10 ¹¹
Gas throughput at final rotation speed for N ₂	14 hPa·l/s
Gas throughput at final rotation speed for Ar	7 hPa·l/s
Fore-vacuum max. for N ₂	20 hPa 15 Torr 20 mbar
Pumping speed for He	255 l/s
Pumping speed for N ₂	260 l/s

HiPace® 300

Rotation speed ± 2 %	60,000 rpm 60,000 min ⁻¹
Pumping speed for Ar	255 l/s
Pumping speed for H ₂	220 l/s
Compression ratio for N ₂	1 · 10 ¹¹
Compression ratio for H ₂	9 · 10 ⁵
Compression ratio for He	1 · 10 ⁸
Compression ratio for Ar	1 · 10 ¹¹
Permissible radial magnetic field max.	5.5 mT
Fore-vacuum max. for N ₂	20 hPa
Cooling water flow	50 l/h
Power consumption max.	300 W
O3 Vacuum range	High Vacuum Ultra-high Vacuum
Connection flange	DN 100 CF-F / DN 16 ISO-KF G 1/4" Thread
Rotation speed variable	35 – 100 %
Rotation speed ± 2 %	60,000 rpm
Weight	7 kg
Connection flange (in)	DN 100 CF-F
Connection flange (out)	DN 16 ISO-KF G ¼"

Order number	HiPace® 300 with TC 400, Profibus, DN 100 CF-F
HiPace® 300 with TC 400, Profibus, DN 100 CF-F	PM P04 231 C

Accessories	HiPace® 300 with TC 400, Profibus, DN 100 CF-F
Operating fluid reservoir for HiPace 300	PM 143 451 AT
Spare parts package 1, bearing for HiPace 300	PM E11 051 -T



Errors and/or changes excepted. - 9/30/2025

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