



**HiPace® 300 with TC
110 and power supply
pack OPS 100,
DN 100 CF-F**



PFEIFFER ➤

HiPace® 300

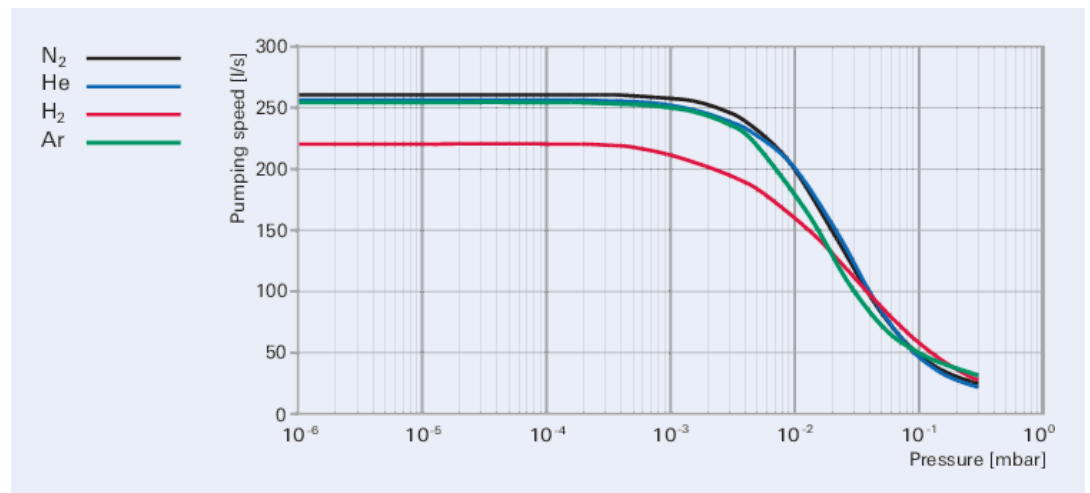


Illustration only

HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 CF-F

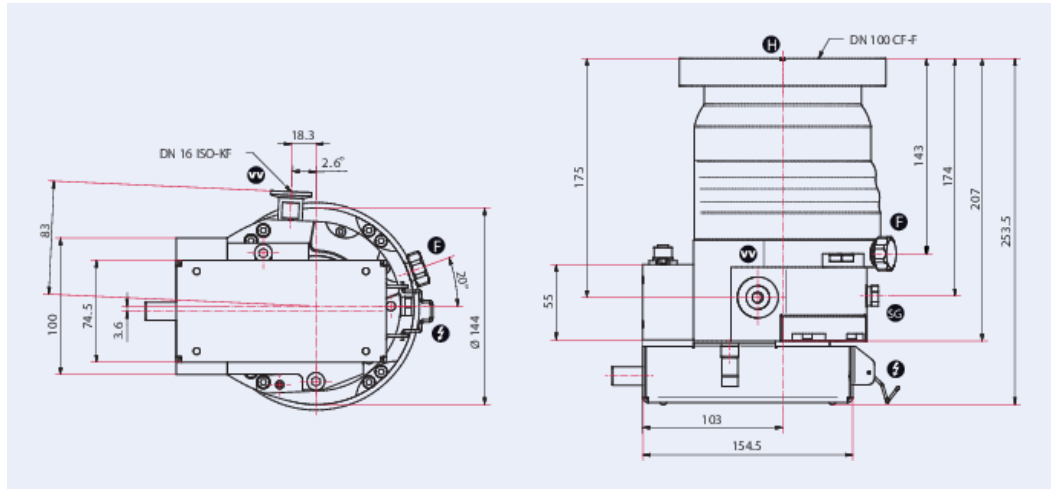
- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- DN 100 CF-F flange for demanding UHV applications
- Drive electronics TC 110 and power supply OPS 100 integrated
- Ideal for UHV applications
- For installation in any orientation
- Extensive accessories expand the range of applications

Characteristics



HiPace® 300

Dimensions



HiPace® 300

Technical Data	HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 CF-F
Electronic drive unit	TC 110
Type of electronic drive unit installation	Integrated electronic drive unit
Position of power supply pack	Integrated power supply pack
Cooling method	Natural convection
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
Interfaces, extended	Profibus DeviceNet E74
Venting connection	G 1/8"
Bearing	Hybrid
Cooling method, optional	Air (forced convection)
Current max.	3.8 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	5 hPa·l/s
Gas throughput at final rotation speed for He	1.8 hPa·l/s
Run-up time	4 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	0.9 hPa·l/s
Gas throughput at final rotation speed for Ar	0.5 hPa·l/s
Fore-vacuum max. for N ₂	11 hPa 8.25 Torr 11 mbar
Pumping speed for He	255 l/s

HiPace® 300

2	260 l/s
Rotation speed ± 2 %	60,000 rpm 60,000 min ⁻¹
Weight	8.9 kg 19.62 lb
Pumping speed for Ar	255 l/s
Pumping speed for H ₂	220 l/s
Compression ratio for N ₂	$1 \cdot 10^{11}$
Compression ratio for H ₂	$9 \cdot 10^5$
Compression ratio for He	$1 \cdot 10^8$
Compression ratio for Ar	$1 \cdot 10^{11}$
Permissible radial magnetic field max.	5.5 mT
Fore-vacuum max. for N ₂	11 hPa
Power consumption max.	100 W
03 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	8.9 kg
Connection flange (in)	DN 100 CF-F
Connection flange (out)	DN 16 ISO-KF G 1/4"

Order number	HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 CF-F
HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 CF-F	PM P04 331 C

Accessories	HiPace® 300 with TC 110 and power supply pack OPS 100, 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

Are you looking for an optimum vacuum solution?

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