



HIPACE 30

The smallest high-performance turbopump on the market.
Ideal for analytical systems and mobile applications.

PFEIFFER  **VACUUM**

125
YEARS
NOTHING
IS BETTER

HIPACE 30

**The smallest high-performance turbopump on the market.
Ideal for analytical systems and mobile applications.**

Extremely small installation dimensions

With the new HiPace 30, Pfeiffer Vacuum presents the currently smallest turbopump in the 30 l/s pumping speed class. With an overall height of not even 12 cm and weighing merely 2 kg, it is ideally suited for being integrated into compact analytical devices, small electron microscopes or portable leak detectors.

Powerful technology

The sophisticated rotor design results in a low vibration level in the HiPace 30. It furthermore achieves a high gas throughput and very good compression of light gases. This ensures a low residual gas background, as desirable in mass spectrometry applications for example.

Highest reliability

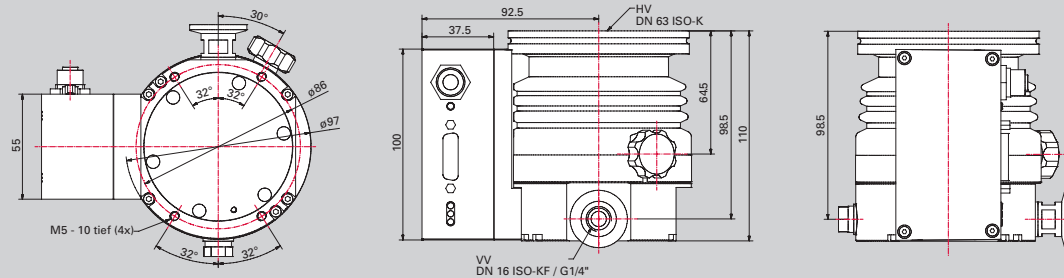
Being based on a so-called hybrid bearing, a combination of ceramic ball bearings on the fore-vacuum side and permanently magnetic radial bearings on the high vacuum side, our HiPace turbopumps have a particularly robust bearing design. The pumps therefore have a long life cycle with a maintenance interval of approximately 4 years.



Customer benefits

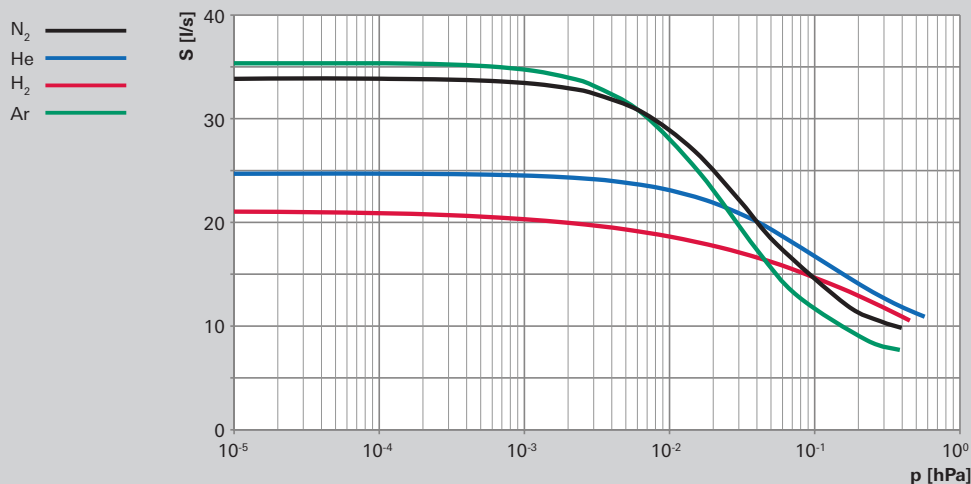
- Highest compression in this pumping speed class
- Simple integration into small analytical systems
- Low weight, ideal for mobile applications
- Long maintenance intervals for a long life cycle

Dimensions



Dimensions in mm

Pumping speed



Technical data

HiPace 30	DN 63 ISO-K	DN 63 CF	DN 40 ISO-KF
Flange (in)	DN 63 ISO-K	DN 63 CF	DN 40 ISO-KF
Flange (out)		G1/4"	
Venting connection		G1/8"	
Pumping speed for N ₂	32 l/s	32 l/s	22 l/s
Pumping speed for Ar	32 l/s	32 l/s	20 l/s
Pumping speed for He	24 l/s	24 l/s	23 l/s
Pumping speed for H ₂	20 l/s	20 l/s	19 l/s
Rotation speed ±2%		90,000 min ⁻¹	
Run-up time		1.7 min	
Gas throughput at full rotational speed for Ar		0.221 hPa l/s	
Gas throughput at full rotational speed for H ₂		10 hPa l/s	
Gas throughput at full rotational speed for He		1.84 hPa l/s	
Gas throughput at full rotational speed for N ₂		0.664 hPa l/s	
Compression ratio for N ₂		> 10 ¹¹	
Compression ratio for Ar		> 10 ¹¹	
Compression ratio for He		1 · 10 ⁸	
Compression ratio for H ₂		3 · 10 ⁵	
Fore-vacuum max for N ₂		24 hPa	
Ultimate pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa	< 5 · 10 ⁻¹⁰ hPa	< 1 · 10 ⁻⁷ hPa
Weight	2 kg	3.4 kg	2 kg
Cooling method		Convektion	
Interfaces		RS 485, Remote	
Protection categorie		IP 54	
Permissible magnetic field max.		3 mT	
Sound pressure level		<48 dB (A)	

Order numbers

Order number			
HiPace 30	PM P05 280	PM P05 281	PM P05 282

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perfect vacuum solution?
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