



HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 ISO-K



PFEIFFER ➤

HiPace® 300

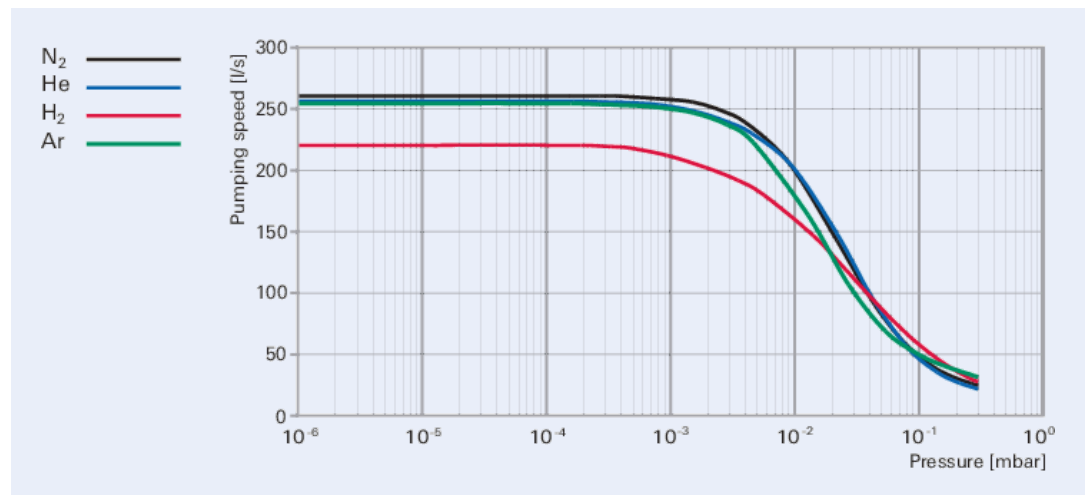


Illustration only

HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 ISO-K

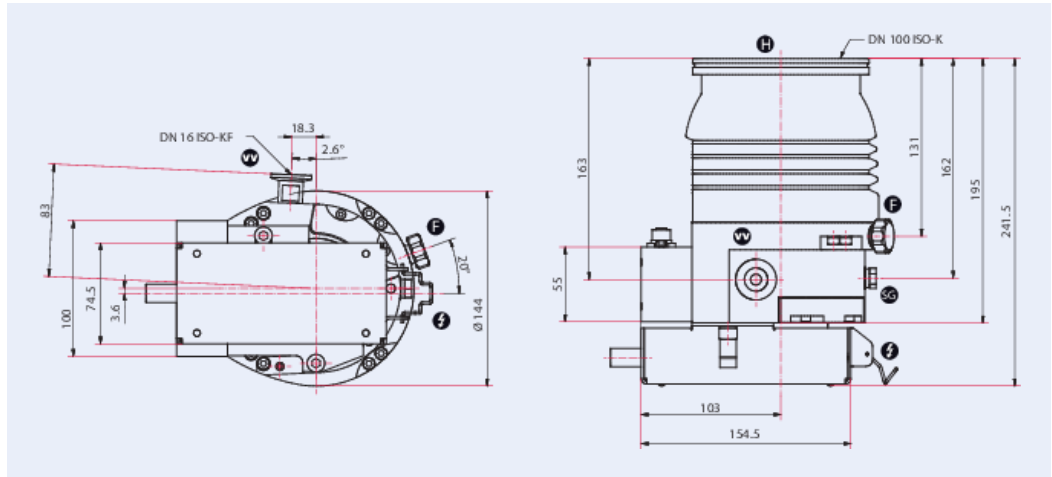
- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- DN 100 ISO-K flange
- Drive electronics TC 110 and power supply OPS 100 integrated
- Ideal for analytical and industrial applications
- For installation in any orientation
- Extensive accessories expand the range of applications

Characteristics



HiPace® 300

Dimensions



HiPace® 300

| Technical Data | HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 ISO-K |
|---|---|
| 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 | 1 · 10 ⁻⁷ hPa |
| Vacuum range max | 1 · 10 ⁻⁷ 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 $\pm 2\%$ | 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 | $1 \cdot 10^{11}$ |
| 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 ISO-K / DN 16 ISO-KF G 1/4" Thread |
| Rotation speed variable | 35 – 100 % |
| Rotation speed $\pm 2\%$ | 60,000 rpm |
| Weight | 6.9 kg |
| Connection flange (in) | DN 100 ISO-K |
| 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 ISO-K |
| HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 ISO-K | PM P04 330 C |

| | |
|---|--|
| Accessories | HiPace® 300 with TC 110 and power supply pack OPS 100, DN 100 ISO-K |
| 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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