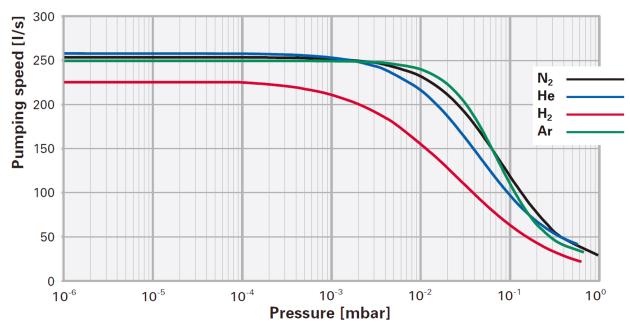
Pfeiffer HiPace 300 with TC-110 **Technical Specifications**

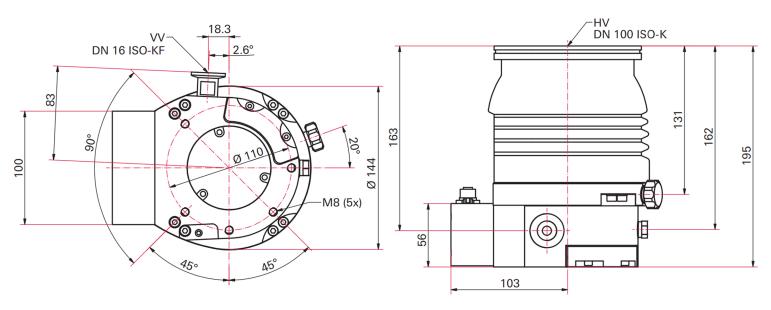
	HiPace® 300 with TC 110, DN 100 ISO-K
Bearing	Hybrid
Compression ratio for Ar	> 1 · 10 ¹¹
Compression ratio for H ₂	$9 \cdot 10^{5}$
Compression ratio for He	> 1 · 10 ⁸
Compression ratio for N ₂	> 1 · 10 ¹¹
Cooling method, optional	Water
Cooling method, standard	Air
Cooling water flow	50 l/h
Cooling water flow, max	50 l/h
Cooling water flow, min	50 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Current max.	7,5 A
Electronic drive unit	with TC 110
Flange (in)	DN 100 ISO-K
Flange (out)	DN 16 ISO-KF/G 1/4"
Fore-vacuum max. for N ₂	15 hPa 11.25 Torr 15 mbar
Gas throughput at full rotational speed for Ar	2 hPa·l/s
Gas throughput at full rotational speed for H ₂	> 14 hPa·l/s
Gas throughput at full rotational speed for He	8 hPa·l/s
Gas throughput at full rotational speed for N ₂	5 hPa·l/s
I/O interfaces	RS-485, Remote
Interface, extended	Profibus, DeviceNet, E74
Mounting orientation	Any
Operating voltage: V DC	24 (± 5 %) V DC
Permissible radial magnetic field max.	5.5 mT
Power consumption max.	180 W
Protection category	IP54
Pumping speed for Ar	255 l/s
Pumping speed for H ₂	220 l/s
Pumping speed for He	255 l/s
Pumping speed for N ₂	260 l/s
Rotation speed ± 2 %	60,000 rpm 60,000 min ⁻¹
Rotation speed variable	35 – 100 %
Run-up time	3.5 min
Sound pressure level	≤50 dB(A)
Ultimate pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Ultimate pressure without gas ballast	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Venting connection	G 1/8"
Weight	6.2 kg 13.67 lb

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Pfeiffer HiPace 300 with TC-110 **Pumping Curves**



Dimensions



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Pfeiffer HiPace 300 with TC-110 Features & Benefits

- higher pumping speeds, backing pump capability & gas throughputs
- protected against particulate matter or oxidizing gases
- integrated drive electronics reduce need for cables
- · compact design makes for minimum footprint
- proven bearing system, improved rotor design
- expanded remote & sensor functionalities
- installation in any orientation
- reduced run-up time
- on-site bearing changes
- quiet operation

Applications

- electron microscopy · leak detection · mass spectrometry · surface analysis · residual gas analysis · coating (PVD/CVD) · beamline implantation · inspection · bonding · transfer chambers & load-locks
- handling systems harddisc coating photovoltaics CD/DVD/Blu Ray manufacturing • optical coating • wear protection • medical technology
- electron beam welding · lamp & tube manufacturing · nuclear & plasma research · particle accelerators · cryo/nano/bio technology

