



Pfeiffer HiPace 300 with TC-400 Technical Specifications

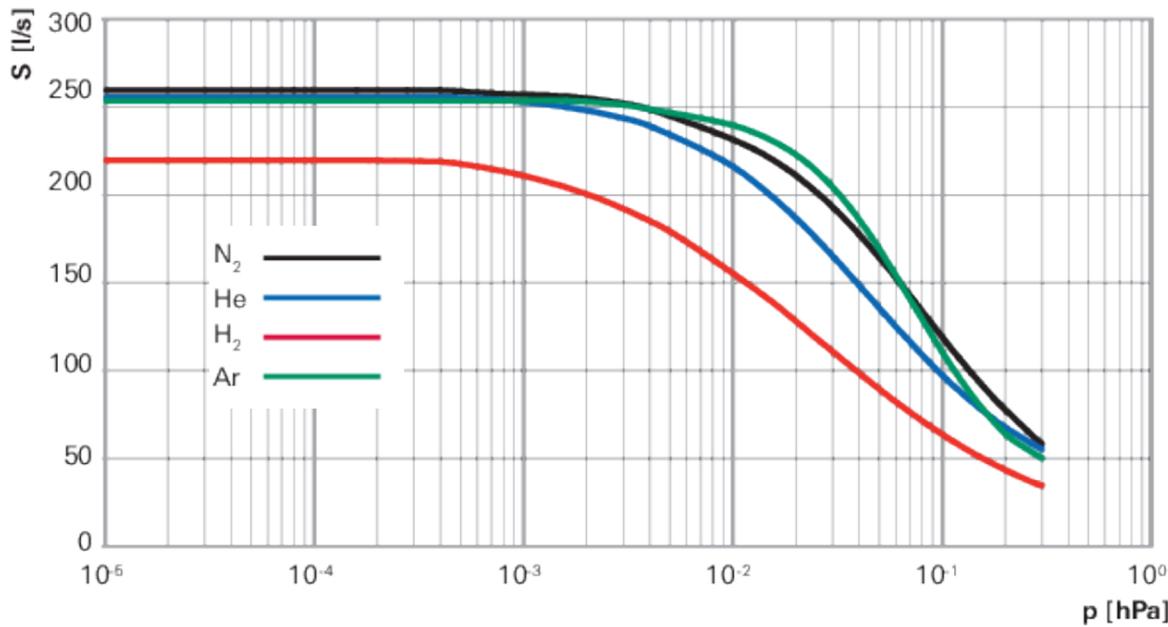
HiPace® 300 with TC 400, DN 100 ISO-F	
Bearing	Hybrid
Compression ratio for Ar	> 1 · 10 ¹¹
Compression ratio for H ₂	9 · 10 ⁵
Compression ratio for He	> 1 · 10 ⁸
Compression ratio for N ₂	> 1 · 10 ¹¹
Connection flange (in)	DN 100 ISO-F
Connection flange (out)	DN 16 ISO-KF/G 1/4"
Cooling method, optional	Air
Cooling method, standard	Water
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.	12,5 A
Electronic drive unit	with TC 400
Final pressure without gas ballast	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Fore-vacuum max. for N ₂	20 hPa 15 Torr 20 mbar
Gas throughput at full rotational speed for Ar	7 hPa·l/s
Gas throughput at full rotational speed for H ₂	> 14 hPa·l/s
Gas throughput at full rotational speed for He	20 hPa·l/s
Gas throughput at full rotational speed for N ₂	14 hPa·l/s
I/O interfaces	RS-485, Remote
Interface, extended	Profibus, DeviceNet, E74
Mounting orientation	Any
Permissible radial magnetic field max.	5.5 mT
Power consumption max.	300 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	1.8 min
Sound pressure level	≤50 dB(A)
Venting connection	G 1/8"
Weight	7 kg 15.43 lb



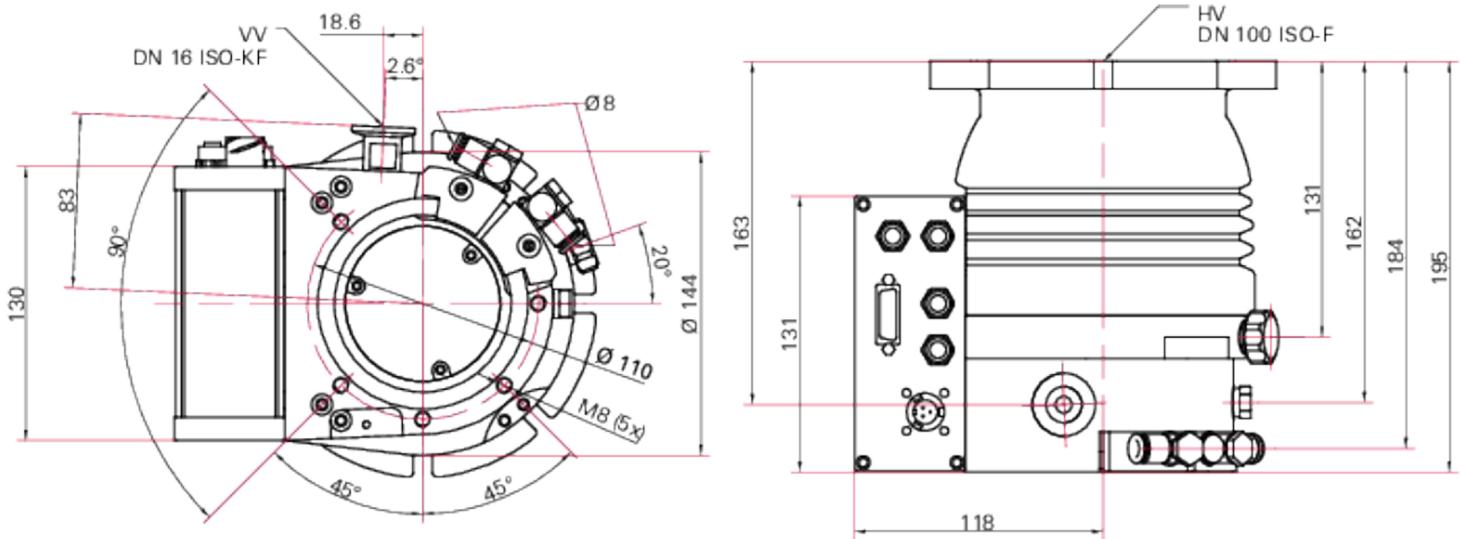
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Pfeiffer HiPace 300 with TC-400 Pumping Curves



Dimensions





Pfeiffer HiPace 300 with TC-400 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