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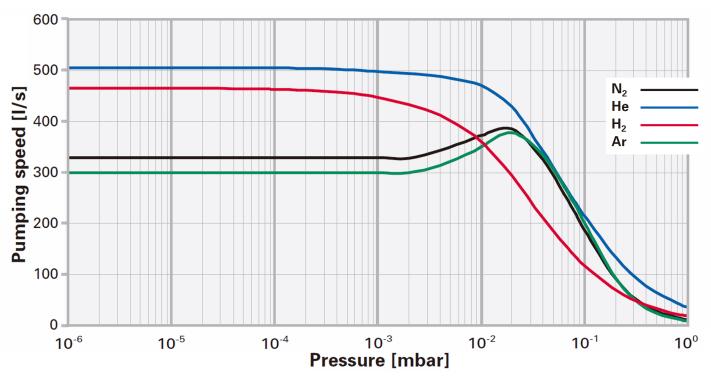
Pfeiffer HiPace 400 **Technical Specifications**

	HiPace® 400 with TC 400, Profibus, DN 100
	ISO-F
Bearing	Hybrid
Compression ratio for Ar	> 1 · 10 ¹¹
Compression ratio for H ₂	4 · 10 ⁵
Compression ratio for He	3 · 10 ⁷
Compression ratio for N ₂	> 1 · 10 ¹¹
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water flow	100 l/h
Cooling water flow, max	100 l/h
Cooling water flow, min	100 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Current max.	8,75 A
Electronic drive unit	with TC 400
Flange (in)	DN 100 ISO-F
Flange (out)	DN 25 ISO-KF/G 1/4"
Fore-vacuum max. for N ₂	11 hPa 8.25 Torr 11 mbar
Gas throughput at full rotational speed for Ar	3.5 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	6.5 hPa·l/s
I/O interfaces	RS-485, Remote, Profibus
Interface, extended	Profibus
Mounting orientation	Any
Operating voltage: V DC	48 (± 5 %) V DC
Permissible radial magnetic field max.	6 mT
Power consumption max.	420 W
Protection category	IP54
Pumping speed for Ar	320 l/s
Pumping speed for H ₂	445 l/s
Pumping speed for He	470 l/s
Pumping speed for N ₂	355 l/s
Rotation speed ± 2 %	49,200 rpm 49,200 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	2 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	12 kg 26.46 lb

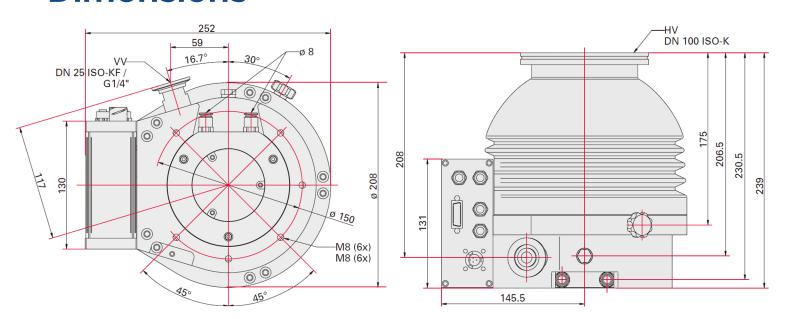
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Pfeiffer HiPace 400

Pumping Curves



Dimensions



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Pfeiffer HiPace 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
- proven bearing system, improved rotor design
- compact design makes for minimum footprint
- expanded remote & sensor functionalities
- installation in any orientation
- reduced run-up time
- on-site bearing changes
- quiet operation



- mass spectrometry 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
- electron beam welding · nuclear research · plasma research · particle
 accelerators · cryo technology · nano technology · bio technology

