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Pfeiffer HiPace 800

Technical Specifications

	HiPace® 800 with TC 400, DN 200 ISO-K
Bearing	Hybrid
Compression ratio for Ar	> $1 \cdot 10^{11}$
Compression ratio for H_2	$4 \cdot 10^{5}$
Compression ratio for He	$3 \cdot 10^{7}$
Compression ratio for N_2	> $1 \cdot 10^{11}$
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
Corrosive gas version	No
Current max.	8,75 A
Electronic drive unit	with TC 400
Flange (in)	DN 200 ISO-K
Flange (out)	DN 25 ISO-KF/G ¼"
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
Interface, extended	Profibus, DeviceNet, E74
Low vibrations	No
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	780 l/s
Pumping speed for H_2	580 l/s
Pumping speed for He	700 l/s
Pumping speed for N_2	790 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	< $1 \cdot 10^{-7}$ hPa | < $7.5 \cdot 10^{-8}$ Torr | < $1 \cdot 10^{-7}$ mbar
Ultimate pressure without gas ballast	$1 \cdot 10^{-7}$ hPa | $7.5 \cdot 10^{-8}$ Torr | $1 \cdot 10^{-7}$ mbar
Venting connection	G 1/8"
Weight	12.8 kg | 28.22 lb

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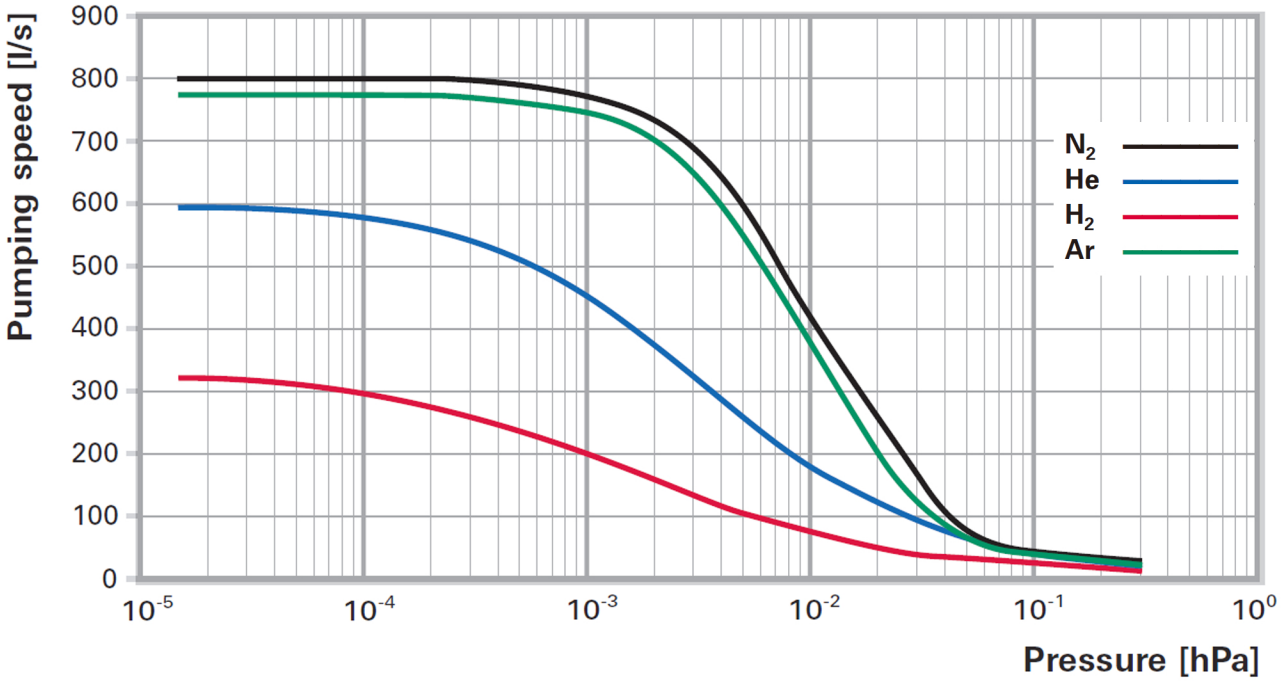
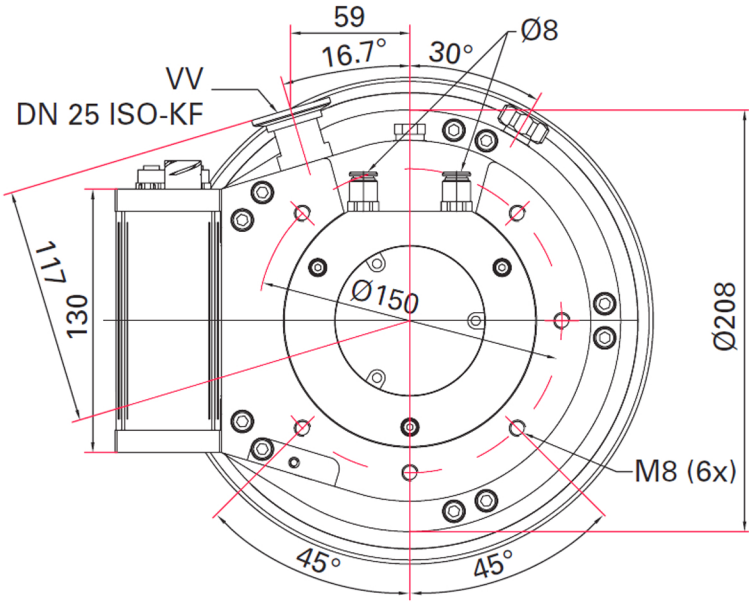
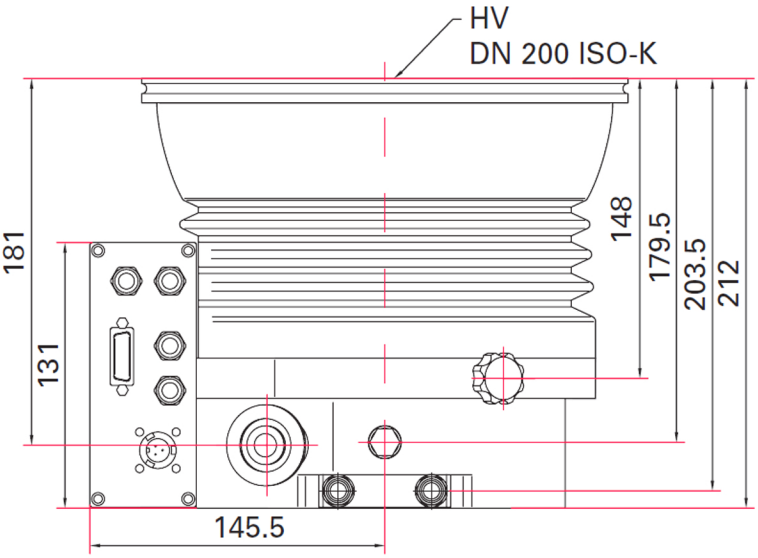
Pumping Curves



Dimensions





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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

Applications

- mass spectrometry • surface analysis • residual gas analysis • PVD
- CVD • source & beamline implantation • molecular beam epitaxy
- hard disc coating • photovoltaics • CD, DVD, Blu Ray production
- optical coating • wear protection • heat treatment • vacuum furnaces
- nuclear research • plasma research • particle accelerators • cryogenic research • nanotechnology • biotechnology