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Pfeiffer HiPace 2300U

Technical Specifications

HiPace® 2300 U with TC 1200, DN 250 ISO-K	
253-Gas throughput at 0.1 hPa HV for CF ₄	38 hPa·l/s
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for CF ₄	$1 \cdot 10^8$
Compression ratio for H ₂	$2 \cdot 10^4$
Compression ratio for He	$3 \cdot 10^5$
Compression ratio for N ₂	$> 1 \cdot 10^8$
Cooling method, standard	Water
Cooling water connection	G 1/4"
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.	10 A
Electronic drive unit	TC 1200
Flange (in)	DN 250 ISO-K
Flange (out)	DN 40 ISO-KF
For electronic drive unit	TC 1200
Fore-vacuum max. for N ₂	1.8 hPa 1.35 Torr 1.8 mbar
Gas throughput at full rotational speed for Ar	16 hPa·l/s
Gas throughput at full rotational speed for CF ₄	14 hPa·l/s
Gas throughput at full rotational speed for H ₂	> 50 hPa·l/s
Gas throughput at full rotational speed for He	20 hPa·l/s
Gas throughput at full rotational speed for N ₂	28 hPa·l/s
I/O interfaces	RS-485, Remote
Integrated power supply	YES
Mounting orientation	90° – 180° (HV flange bottom)
Permissible radial magnetic field max.	7 mT
Power consumption max.	1350 VA
Protection category	IP54
Pumping speed for Ar	1800 l/s
Pumping speed for H ₂	1850 l/s
Pumping speed for He	2000 l/s
Pumping speed for N ₂	1900 l/s
Rotation speed ± 2 %	31,500 rpm 31,500 min ⁻¹
Rotation speed variable	50 – 100 %
Run-up time	4 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"
Voltage: Range	90 – 265 V AC
Weight	35.5 kg 78.26 lb



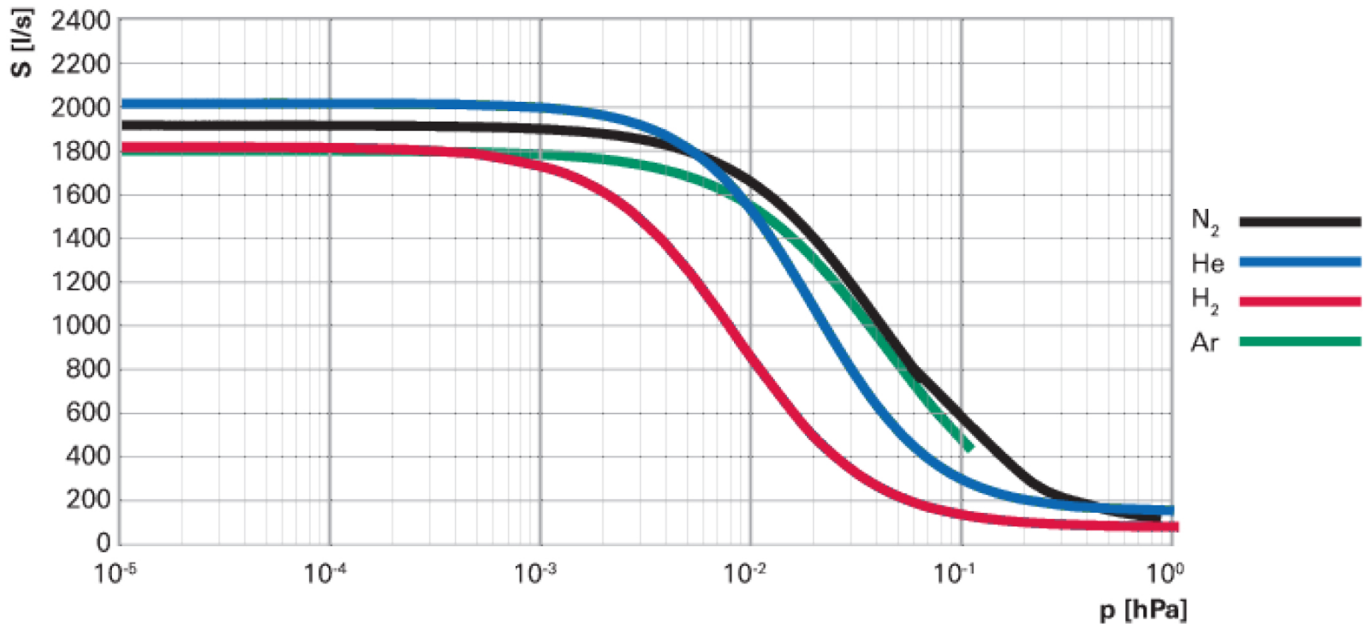
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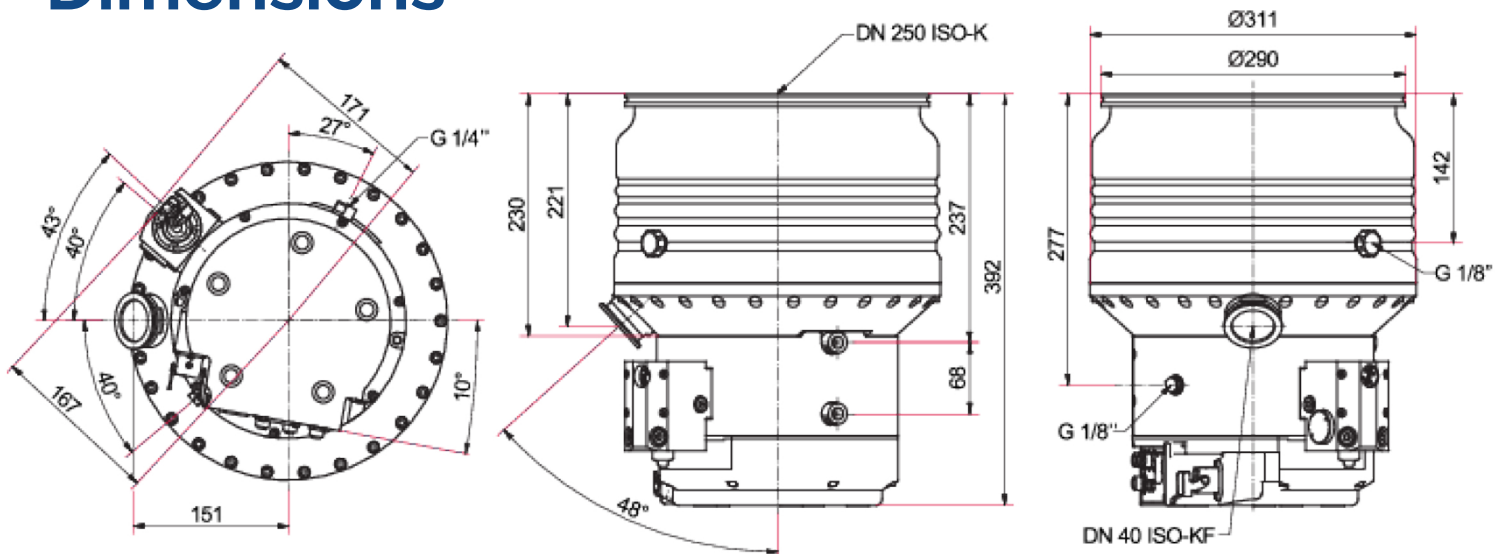
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Pfeiffer HiPace 2300U Pumping Curves



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
- 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

- PVD • CVD • beamline implantation • flat panel display • hard disk coating • photovoltaics • glass coating • optical coating • wear protection • web coating • medical technology • electron beam welding • heat treatment • vacuum drying • vacuum furnaces
- space simulation

