

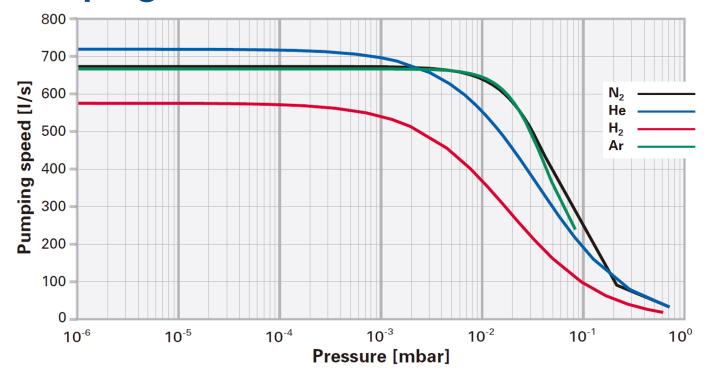
Pfeiffer HiPace 700 Technical Specifications

	HiPace® 700 with TC 400, Profibus, DN 160 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 160 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	10 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	665 l/s
Pumping speed for H ₂	555 l/s
Pumping speed for He	655 l/s
Pumping speed for N ₂	685 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	12.1 kg 26.68 lb

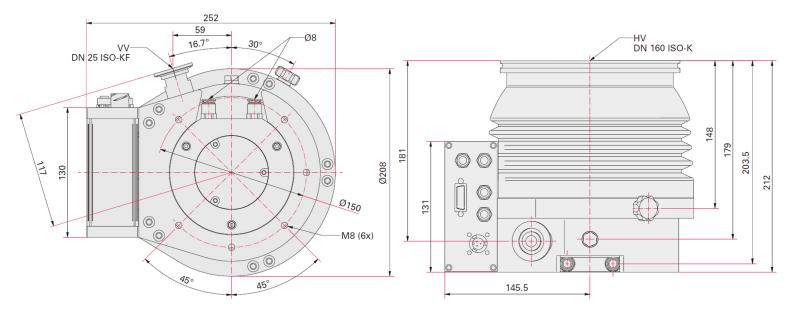
PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073



Pfeiffer HiPace 700 Pumping Curves



Dimensions



Provac Sales, Inc. 3131 Soquel Drive, Soquel CA 95073



Pfeiffer HiPace 700 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 residual gas analysis coating (PVD, CVD)
- beamline implantation transfer chambers load locks handling systems • harddisc coating • photovoltaics • CD, DVD, Blu Ray manufacturing • optical coating • wear protection • medical technology
- electron beam welding nuclear research plasma research particle accelerators • cryo technology • nano technology • bio technology