PFEIFFER VACUUM

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HiPace® 800

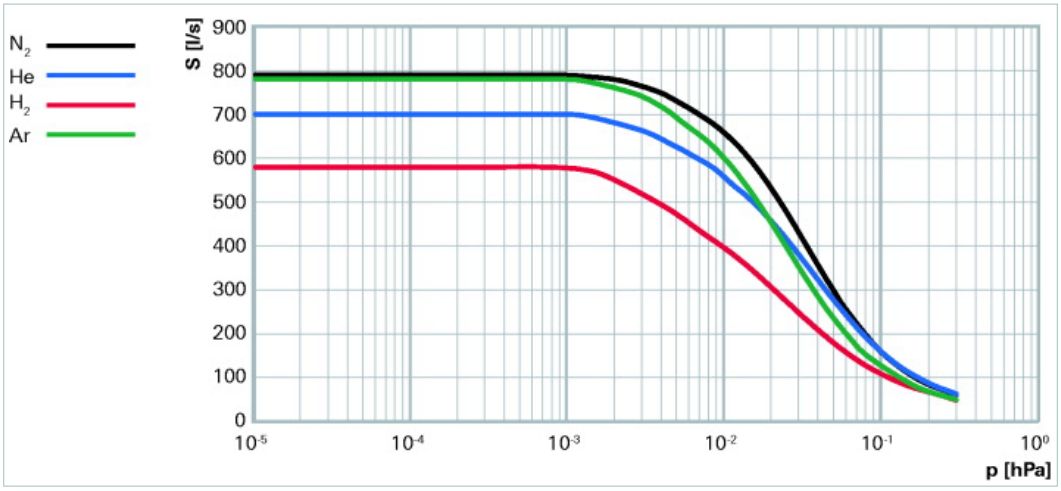
Maximum vacuum performance in a compact design with a pumping speed of 790 l/s for N_2



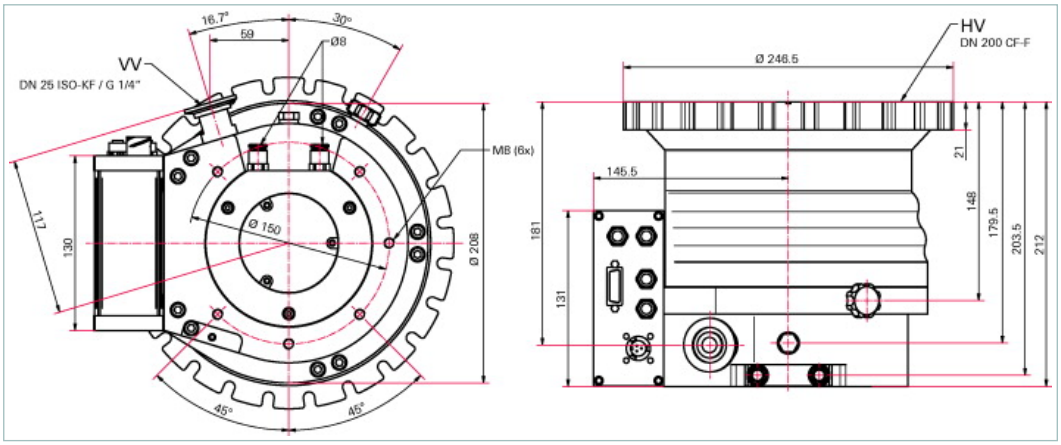
Similar Image

HiPace® 800 with TC 400, DN 200 CF-F

- Compact yet powerful turbopump with a pumping speed of up to 790 l/s for N_2
- Maximum vacuum performance with minimum power consumption
- Integrated TC 400 drive electronics
- For installation in any orientation
- Integrated, powerful cooling system



Dimensions



Technical Data	HiPace® 800 with TC 400, DN 200 CF-F
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 consumption	100 l/h
Cooling water temperature	15-35 °C | 59-95 °F | 288-308 K
Electronic drive unit	with TC 400
Flange (in)	DN 200 CF-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 | 2.62 Torr l/s | 3.5 mbar l/s
Gas throughput at full rotational speed for H_2	> 14 hPa l/s | > 10.5 Torr l/s | > 14 mbar l/s

Technical Data	HiPace® 800 with TC 400, DN 200 CF-F
Gas throughput at full rotational speed for He	20 hPa l/s | 15 Torr l/s | 20 mbar l/s
Gas throughput at full rotational speed for N_2	6.5 hPa l/s | 4.88 Torr l/s | 6.5 mbar l/s
Interfaces	RS-485, Remote
Mounting orientation	in any orientation
Operating voltage	48 (± 5 %) V DC
Permissible magnetic field max.	6 mT
Protection category	IP 54
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 %	49200 min^{-1}
Rotation speed variable	60-100 %
Run-up time	2 min
Sound pressure level	50 dB (A)
Ultimate pressure according to PNEUROP	< 5 · 10^{-10} hPa | < 3.75 · 10^{-10} Torr | < 5 · 10^{-10} mbar
Venting connection	G 1/8"
Weight	19.1 kg | 42.11 lb

Order number	
HiPace® 800	**PM P04 301**

Accessories	
Accessory for TC 400/1200 and TM 700	
Y-connector, shielded, M12 for accessories	**P 4723 013**
Adapter and control cables	
Control cable for pumping stations 0.7 m	**PM 061 675 AT**
HiPace - ACP connection cable	**PM 071 142 -X**
Air cooling	
Air cooling for HiPace 400/700 and 800 with TC 400	**PM Z01 303**
CF-F, Mounting kit	
Set of hexagon screws for through hole, DN 200 CF-F	**PM 016 687 -T**
Set of stud screws for through hole, DN 200 CF-F	**PM 016 688 -T**
CF-F, Sealings, splinter shields, protection screens	
Protection screen for DN 200 CF-F	**PM 016 342**
Splinter shield for turbopumps, DN 200 CF-F	**PM 016 321**
Connection cables	
Connection cable for HiPace with TC 400/TM 700 to power supply TPS/DCU 310/311/400/401	**PM 061 352 -T**
Control and display units	
Accessories package for HPU 001/PC	**PM 061 005 -T**
DCU 002, Display Control Unit	**PM 061 348 -T**
HPU 001, Handheld Programming Unit	**PM 051 510 -T**
RJ 45 interface cable on M12 for HiPace	**PM 051 726 -T**
DCU with integrated power supply	
DCU 400, Display control unit incl. power supply	**PM C01 823**
Fore-vacuum safety valves	
TVV 001 fore-vacuum safety valve, 115 V AC	**PM Z01 206**
TVV 001 fore-vacuum safety valve, 230 V AC	**PM Z01 205**
Heating suitable for TC 110 and TC 400	
Heating jacket for HiPace 400/700/800 with TC 400, 115 V AC, UL plug	**PM 061 371 -T**
Heating jacket for HiPace 400/700/800 with TC 400, 208 V AC, UL plug	**PM 061 370 -T**
Heating jacket for HiPace 400/700/800 with TC 400, 230 V AC, safety plug	**PM 061 369 -T**
Interface and extension cables	
Interface cable, M12 m straight / M12 m straight, 3 m	**PM 061 283 -T**
Mains cables	
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	**P 4564 309 ZE**
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	**P 4564 309 ZF**
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	**P 4564 309 ZA**
Relay boxes	
Backing pump relay box, single phase 20 A, for TC 400 and TCP 350, M12 plug	**PM 061 375 -T**
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	**PM 071 284 -X**
RS-485	
Connector M12 to RS-485	**PM 061 270 -X**
Power separator for RS-485	**PT 348 132 -T**
Termination resistor for RS-485	**PT 348 105 -T**
USB converter to RS-485 interface	**PM 061 207 -T**
Y-Connector M12 to RS-485	**P 4723 010**
Sealing gas	
Sealing gas throttle for HiPace 300 - 800	**PM Z01 317**
Sealing gas valve, shielded for HiPace 300/400/700 and 800 with TC 400 and TM 700	**PM Z01 312**

Accessories	
TPS-19" rack module	
Front panel kit for TPS 401	**PM 061 396 -T**
TPS 401, power supply 48 V DC, 19" partial plug-in 3HU	**PM 061 347 -T**
TPS wall rail fitting	
TPS 400, power supply 48 V DC, for wall/standard rail fitting	**PM 061 343 -T**
Wall rail fitting for TPS 110/180/310/400	**PM 061 392 -T**
Venting accessory with small flange, G 1/8", hoses, air drier	
TTV 001, dryer for venting turbopumps	**PM Z00 121**
Venting valve (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	**PM Z01 291**
Vibration damper	
Vibration damper for HiPace 800/1200, DN 200 CF-F	**PM 006 669 -X**