HiPace® 800 M with TM 700 and power supply OPS 400, Profibus, DN 200 CF-F
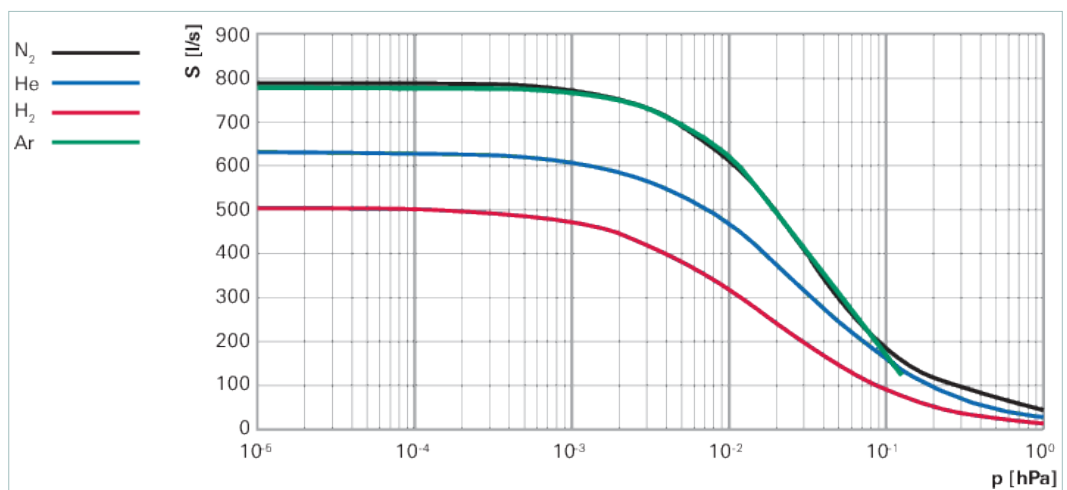

Hakuto 伯東

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Similar Image

HiPace® 800 M with TM 700 and power supply OPS 400, Profibus, DN 200 CF-F

- 5-axis magnetically levitated turbopump with a pumping speed of 790 l/s for N_2
- Digital magnetic bearing controller TM 700 and power supply OPS 400 integrated
- Installation in any orientation; flexible through connectivity of up to 4 accessory parts
- With integrated water cooling for maximum gas throughput
- Interfaces: RS-485, Remote, Profibus (DeviceNet on request)
- The turbopump features extremely low vibration and is oil-free
- With patented In-field sensor calibration
- Including venting valve and patented "pulsed venting"
- Protection Class: IP 54
- Extensive accessories expand the range of applications

Technical Data	HiPace® 800 M with TM 700 and power supply OPS 400, Profibus, DN 200 CF-F
Bearing	Magnetically Levitated
Compression ratio for Ar	> 1 · 10¹¹
Compression ratio for H_2	2 · 10⁵
Compression ratio for He	> 1 · 10⁷
Compression ratio for N_2	> 1 · 10¹¹
Cooling method, optional	Air, convection
Cooling method, standard	Water
Cooling water consumption	80 l/h
Cooling water temperature	15-35 °C
Electronic drive unit	with TM 700
Flange (in)	DN 200 CF-F
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N_2	8 hPa | 6 Torr | 8 mbar
Gas throughput at 0.1 hPa HV for Ar	16 hPa l/s | 12 Torr l/s | 16 mbar l/s
Gas throughput at 0.1 hPa HV for H_2	9 hPa l/s | 6.75 Torr l/s | 9 mbar l/s
Gas throughput at 0.1 hPa HV for He	16 hPa l/s | 12 Torr l/s | 16 mbar l/s
Gas throughput at 0.1 hPa HV for N_2	16 hPa l/s | 12 Torr l/s | 16 mbar l/s
Gas throughput at full rotational speed for Ar	8 hPa l/s | 6 Torr l/s | 8 mbar l/s
Gas throughput at full rotational speed for N_2	13 hPa l/s | 9.75 Torr l/s | 13 mbar l/s
Integrated power supply	YES
Interface, extended	Profibus
Interfaces	RS-485, Remote, Profibus
Low vibrations	YES

Technical Data	HiPace® 800 M with TM 700 and power supply OPS 400, Profibus, DN 200 CF-F
Mounting orientation	in any orientation
Operating voltage	48 (± 5 %) V DC
Permissible magnetic field max.	5 mT
Protection category	IP 54
Pumping speed for Ar	775 l/s
Pumping speed for H_2	500 l/s
Pumping speed for He	625 l/s
Pumping speed for N_2	790 l/s
Rotation speed ± 2 %	60,000 rpm | 60,000 min^{-1}
Run-up time	4 min
Ultimate pressure according to PNEUROP	< 5 · 10^{-10} hPa | < 3.75 · 10^{-10} Torr | < 5 · 10^{-10} mbar
Venting connection	G 1/8"
Weight	23.3 kg | 51.37 lb

Order number	
HiPace® 800 M	**PM P04 995**

Accessories	
Accessory for DCU/HPU	
Accessories package for HPU 001/PC	**PM 061 005 -T**
Adapter and control cables	
Control cable for pumping stations 0.7 m	**PM 061 675 AT**
HiPace - ACP connection cable	**PM 071 142 -X**
Adapters / connections TC 400/1200 and TM 700	
Y-connector, shielded, M12 for accessories	**P 4723 013**
Air coolings (shielded)	
Air cooling, shielded, for HiPace 400/700/800 and 300700/800 M with TC 400 PB/TM 700	**PM Z01 363**
Control and display units	
HPU 001, Handheld Programming Unit	**PM 051 510 -T**
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**
Interface 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 HAN 3A, 3 m	**PM 061 187 -X**
Mains cable 208 V AC, NEMA 6-15 to HAN 3A, 3 m	**P 4564 309 HB**
Mains cable 230 V AC, CEE 7/7 to HAN 3A, 3 m	**P 4564 309 HA**
Pressure Sensors	
TIC 010, Adapter for two sensors	**PT R70 000**
Protection screen for Pfeiffer Vacuum turbo pumps	
Protection screen for DN 200 CF-F	**PM 016 342**
RS-485 accessories	
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 throttle	
Sealing gas throttle for HiPace 300	**PM Z01 317**
Sealing gas valve, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	**PM Z01 312**
Set of hexagon screws for trough hole	
Set of hexagon screws for through hole, DN 200 CF-F	**PM 016 687 -T**
Set of stud screws for tapped hole	
Set of stud screws for through hole, DN 200 CF-F	**PM 016 688 -T**
Set of stud screws for trough hole	
Set of stud screws for through hole, DN 200 CF-F	**PM 016 736 -T**

Accessories	
Shielded heating suitable for TC 400 PB, TC 1200 and TM 700	
Heating jacket, shielded, for HiPace 400/700/800 with TC 400 PB/TM 700, 115 V AC, UL plug	**PM 071 271 -T**
Heating jacket, shielded, for HiPace 400/700/800 with TC 400 PB/TM 700, 208 V AC, UL plug	**PM 071 270 -T**
Heating jacket, shielded, for HiPace 400/700/800 with TC 400 PB/TM 700, 230 V AC, safety plug	**PM 071 269 -T**
Shielded relay boxes suitable for TC 110/TC 400 with PB, TC 1200 and TM 700	
Relay box, shielded, for backing pumps, 1-phase 20 A for TC 400/1200, TM 700 and TCP 350, M12	**PM 071 285 -X**
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	**PM 071 284 -X**
Splinter shield for Pfeiffer Vacuum turbo pumps	
Splinter shield for turbopumps, DN 200 CF-F	**PM 016 321**
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**

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