



HiPace[®] 800 M with TM 700 and power supply OPS 400, Profibus, DN 100 ISO-F



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Hakuto

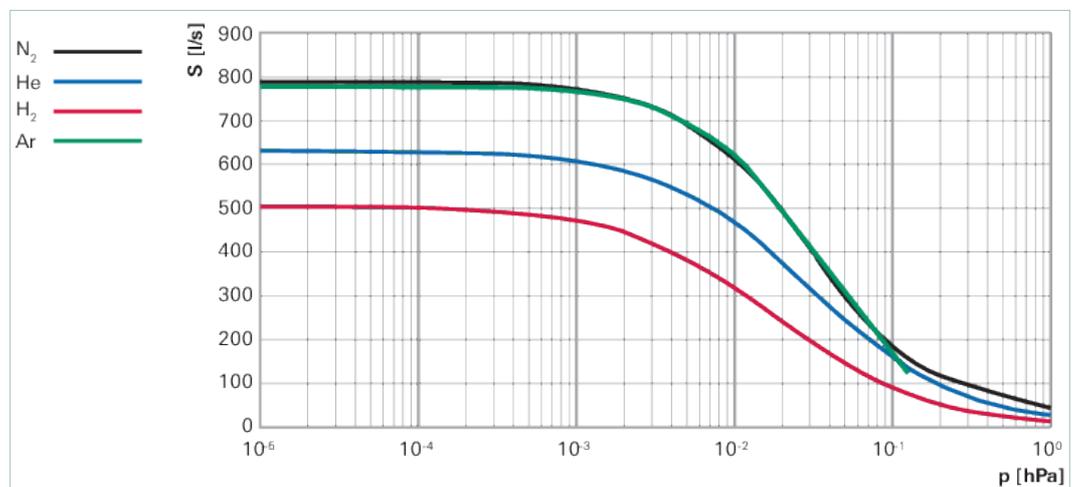
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HiPace® 800 M with TM 700 and power supply OPS 400, Profibus, DN 100 ISO-F

- 5-axis magnetically levitated turbopump with a pumping speed of 790 l/s for N₂
- 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 100 ISO-F
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$2 \cdot 10^5$
Compression ratio for He	$> 1 \cdot 10^7$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
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 100 ISO-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 100 ISO-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 %	49,200 rpm 49,200 min ⁻¹
Run-up time	4 min
Ultimate pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Venting connection	G 1/8"
Weight	19.7 kg 43.43 lb

Order number	
HiPace® 800 M	PM P04 994

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
Centering ring with multifunctional coating	
Centering ring with multifunction coating, DN 200 ISO-K/-F	PM 016 220 -U
Centering ring with multifunctional coating, including protection screen	
Centering ring with multifunction coating and integrated splinter shield, DN 200 ISO-K/-F	PM 016 221 -U
Centering ring with multifunctional coating, including splinter shield	
Centering ring with multifunction coating and integrated protection screen, DN 200 ISO-K/-F	PM 016 222 -U
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
Mounting kits for HiPace, including coated centering ring, protection screen and hexagon screws	
Mounting kit for DN 200 ISO-F, including coated centering ring, protective screen, hexagon screws	PM 016 472 -T
Mounting kits for HiPace, including coated centering ring, protection screen and stud screws	
Mounting kit for DN 200 ISO-F, including coated centering ring, protective screen, stud screws	PM 016 477 -T
Mounting kits for HiPace, including coated centering ring, splinter shield and hexagon screws	
Mounting kit for DN 200 ISO-F, including coated centering ring, splinter shield, hexagon screws	PM 016 471 -T
Mounting kits for HiPace, including coated centering ring, splinter shield and stud screws	
Mounting kit for DN 200 ISO-F, including coated centering ring, splinter shield, stud screws	PM 016 476 -T

Accessories	
Mounting kits for HiPace, including coated centering ring and hexagon screws	
Mounting kit for HiPace DN 200 ISO-F, including coated centering ring, hexagon screws	PM 016 470 -T
Mounting kits for HiPace, including coated centering ring and stud screws	
Mounting kit for DN 200 ISO-F, including coated centering ring, stud screws	PM 016 475 -T
Pressure Sensors	
TIC 010, Adapter for two sensors	PT R70 000
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
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
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 800/1200/1800, DN 200 ISO-K/F	PM 006 668 -X

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