



# HiPace<sup>®</sup> 800 M with TM 700 and power supply OPS 400, DeviceNet, DN 200 ISO-F



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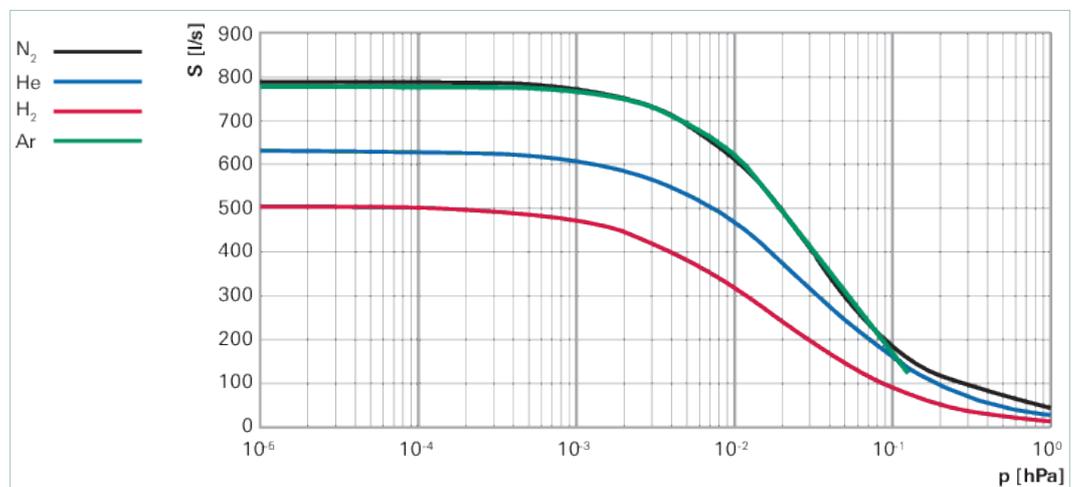
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## HiPace® 800 M with TM 700 and power supply OPS 400, DeviceNet, DN 200 ISO-F

- 5-axis magnetically levitated turbopump with a pumping speed of 790 l/s for N<sub>2</sub>
- 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, DeviceNet (Profibus 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, DeviceNet, DN 200 ISO-F
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H <sub>2</sub>	$2 \cdot 10^5$
Compression ratio for He	$> 1 \cdot 10^7$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^{11}$
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 200 ISO-F
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	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 <sub>2</sub>	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 <sub>2</sub>	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 <sub>2</sub>	13 hPa l/s   9.75 Torr l/s   13 mbar l/s
Integrated power supply	YES
Interfaces	RS-485, Remote, DeviceNet
Low vibrations	YES
Mounting orientation	in any orientation

Technical Data	HiPace® 800 M with TM 700 and power supply OPS 400, DeviceNet, DN 200 ISO-F
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 <sub>2</sub>	500 l/s
Pumping speed for He	625 l/s
Pumping speed for N <sub>2</sub>	790 l/s
Rotation speed ± 2 %	49,200 rpm   49,200 min <sup>-1</sup>
Run-up time	4 min
Ultimate pressure according to PNEUROP	< 1 · 10 <sup>-7</sup> hPa   < 7.5 · 10 <sup>-8</sup> Torr   < 1 · 10 <sup>-7</sup> mbar
Venting connection	G 1/8"
Weight	19.7 kg   43.43 lb

Order number	
HiPace® 800 M	PM P04 997

<b>Accessories</b>	
<b>Accessory for DCU/HPU</b>	
Accessories package for HPU 001/PC	<b>PM 061 005 -T</b>
<b>Adapter and control cables</b>	
Control cable for pumping stations 0.7 m	<b>PM 061 675 AT</b>
HiPace - ACP connection cable	<b>PM 071 142 -X</b>
<b>Adapters / connections TC 400/1200 and TM 700</b>	
Y-connector, shielded, M12 for accessories	<b>P 4723 013</b>
<b>Air coolings (shielded)</b>	
Air cooling, shielded, for HiPace 400/700/800 and 300700/800 M with TC 400 PB/TM 700	<b>PM Z01 363</b>
<b>Centering ring with multifunctional coating</b>	
Centering ring with multifunction coating, DN 200 ISO-K/-F	<b>PM 016 220 -U</b>
<b>Centering ring with multifunctional coating, including protection screen</b>	
Centering ring with multifunction coating and integrated splinter shield, DN 200 ISO-K/-F	<b>PM 016 221 -U</b>
<b>Centering ring with multifunctional coating, including splinter shield</b>	
Centering ring with multifunction coating and integrated protection screen, DN 200 ISO-K/-F	<b>PM 016 222 -U</b>
<b>Control and display units</b>	
HPU 001, Handheld Programming Unit	<b>PM 051 510 -T</b>
<b>Fore-vacuum safety valves</b>	
TVV 001 fore-vacuum safety valve, 115 V AC	<b>PM Z01 206</b>
TVV 001 fore-vacuum safety valve, 230 V AC	<b>PM Z01 205</b>
<b>Interface cables</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	<b>PM 061 283 -T</b>
<b>Mains cables</b>	
Mains cable 115 V AC, NEMA 5-15 to HAN 3A, 3 m	<b>PM 061 187 -X</b>
Mains cable 208 V AC, NEMA 6-15 to HAN 3A, 3 m	<b>P 4564 309 HB</b>
Mains cable 230 V AC, CEE 7/7 to HAN 3A, 3 m	<b>P 4564 309 HA</b>
<b>Mounting kits for HiPace, including coated centering ring, protection screen and hexagon screws</b>	
Mounting kit for DN 200 ISO-F, including coated centering ring, protective screen, hexagon screws	<b>PM 016 472 -T</b>
<b>Mounting kits for HiPace, including coated centering ring, protection screen and stud screws</b>	
Mounting kit for DN 200 ISO-F, including coated centering ring, protective screen, stud screws	<b>PM 016 477 -T</b>
<b>Mounting kits for HiPace, including coated centering ring, splinter shield and hexagon screws</b>	
Mounting kit for DN 200 ISO-F, including coated centering ring, splinter shield, hexagon screws	<b>PM 016 471 -T</b>
<b>Mounting kits for HiPace, including coated centering ring, splinter shield and stud screws</b>	
Mounting kit for DN 200 ISO-F, including coated centering ring, splinter shield, stud screws	<b>PM 016 476 -T</b>

<b>Accessories</b>	
<b>Mounting kits for HiPace, including coated centering ring and hexagon screws</b>	
Mounting kit for HiPace DN 200 ISO-F, including coated centering ring, hexagon screws	<b>PM 016 470 -T</b>
<b>Mounting kits for HiPace, including coated centering ring and stud screws</b>	
Mounting kit for DN 200 ISO-F, including coated centering ring, stud screws	<b>PM 016 475 -T</b>
<b>Pressure Sensors</b>	
TIC 010, Adapter for two sensors	<b>PT R70 000</b>
<b>RS-485 accessories</b>	
Connector M12 to RS-485	<b>PM 061 270 -X</b>
Power separator for RS-485	<b>PT 348 132 -T</b>
Termination resistor for RS-485	<b>PT 348 105 -T</b>
USB converter to RS-485 interface	<b>PM 061 207 -T</b>
Y-Connector M12 to RS-485	<b>P 4723 010</b>
<b>Sealing gas throttle</b>	
Sealing gas throttle for HiPace 300	<b>PM Z01 317</b>
<b>Sealing gas valve, shielded (normally closed)</b>	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	<b>PM Z01 312</b>
<b>Shielded relay boxes suitable for TC 110/TC 400 with PB, TC 1200 and TM 700</b>	
Relay box, shielded, for backing pumps, 1-phase 20 A for TC 400/1200, TM 700 and TCP 350, M12	<b>PM 071 285 -X</b>
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	<b>PM 071 284 -X</b>
<b>Venting accessory with small flange, G 1/8", hoses, air drier</b>	
TTV 001, dryer for venting turbopumps	<b>PM Z00 121</b>
<b>Venting valve (normally closed)</b>	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	<b>PM Z01 291</b>
<b>Vibration damper</b>	
Vibration damper for HiPace 800/1200/1800, DN 200 ISO-K/F	<b>PM 006 668 -X</b>

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