



# HiPace® 800 M with TM 700, DN 200 ISO-F

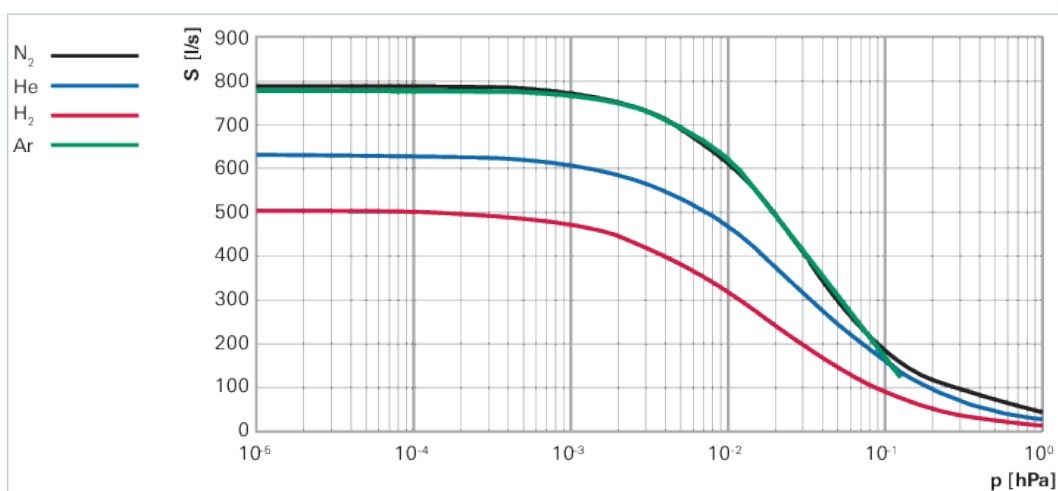




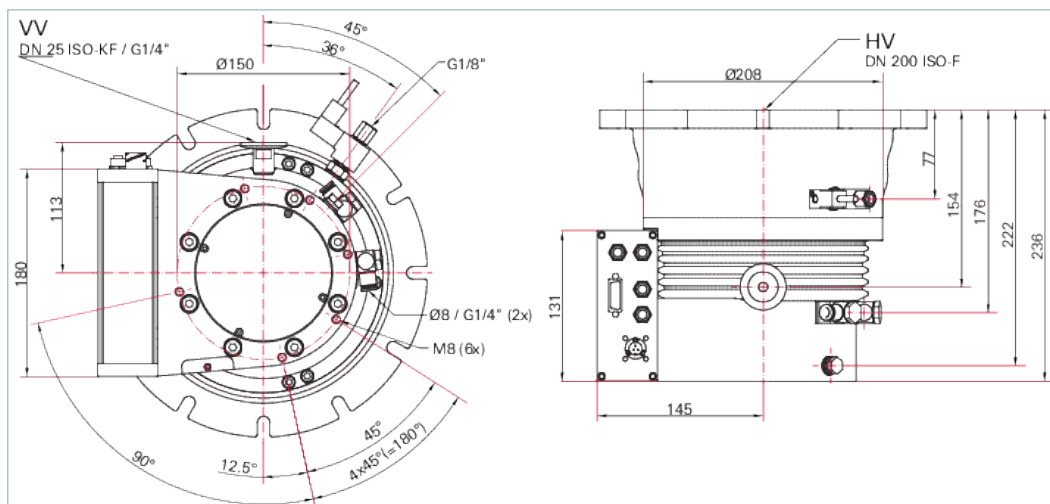
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## HiPace® 800 M with TM 700, DN 200 ISO-F

- 5-axis magnetically levitated turbopump with a pumping speed of 790 l/s for N<sub>2</sub>
- Integrated digital magnetic bearing controller TM 700
- 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



### Dimensions



### Technical Data

Bearing  
 Compression ratio for Ar  
 Compression ratio for H<sub>2</sub>  
 Compression ratio for He  
 Compression ratio for N<sub>2</sub>  
 Cooling method, optional  
 Cooling method, standard

### HiPace® 800 M with TM 700, DN 200 ISO-F

Magnetically Levitated  
 $> 1 \cdot 10^{11}$   
 $2 \cdot 10^5$   
 $> 1 \cdot 10^7$   
 $> 1 \cdot 10^{11}$   
 Air, convection  
 Water

Technical Data		HiPace® 800 M with TM 700, DN 200 ISO-F	
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	
Interfaces		RS-485, Remote	
Low vibrations		YES	
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 <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		18 kg   39.68 lb	
Order number			
HiPace® 800 M		PM P04 461	

Accessories	
<b>Accessories Diaphragm pumps</b>	
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	P 4564 309 ZE
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	P 4564 309 ZA
<b>Accessory for DCU/HPU</b>	
Accessories package for HPU 001/PC	PM 061 005 -T
<b>Adapter and control cables</b>	
Control cable for pumping stations 0.7 m	PM 061 675 AT
HiPace - ACP connection cable	PM 071 142 -X
<b>Adapters / connections TC 400/1200 and TM 700</b>	
Y-connector, shielded, M12 for accessories	P 4723 013
<b>Air coolings (shielded)</b>	
Air cooling, shielded, for HiPace 400/700/800 and 300700/800 M with TC 400 PB/TM 700	PM Z01 363
<b>Centering ring with multifunctional coating</b>	
Centering ring with multifunction coating, DN 200 ISO-K/-F	PM 016 220 -U
<b>Centering ring with multifunctional coating, including protection screen</b>	
Centering ring with multifunction coating and integrated splinter shield, DN 200 ISO-K/-F	PM 016 221 -U
<b>Centering ring with multifunctional coating, including splinter shield</b>	
Centering ring with multifunction coating and integrated protection screen, DN 200 ISO-K/-F	PM 016 222 -U
<b>Connection cables</b>	
Connection cable for HiPace with TC 400/TM 700 to power supply TPS/DCU 310/311/400/401	PM 061 352 -T
<b>Control and display units</b>	
DCU 002, Display Control Unit	PM 061 348 -T
HPU 001, Handheld Programming Unit	PM 051 510 -T
<b>Fore-vacuum safety valves</b>	
TVV 001 fore-vacuum safety valve, 115 V AC	PM Z01 206
TVV 001 fore-vacuum safety valve, 230 V AC	PM Z01 205
<b>Interface cables</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
<b>Mains cables</b>	
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
<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	PM 016 472 -T
<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	PM 016 477 -T
<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	PM 016 471 -T
<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	PM 016 476 -T

<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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