



HiPace[®] 700 M

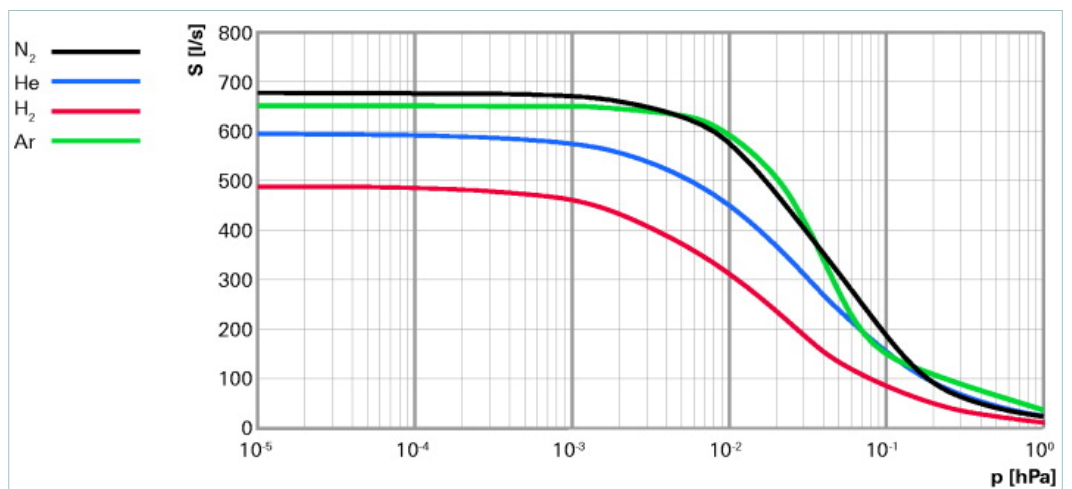




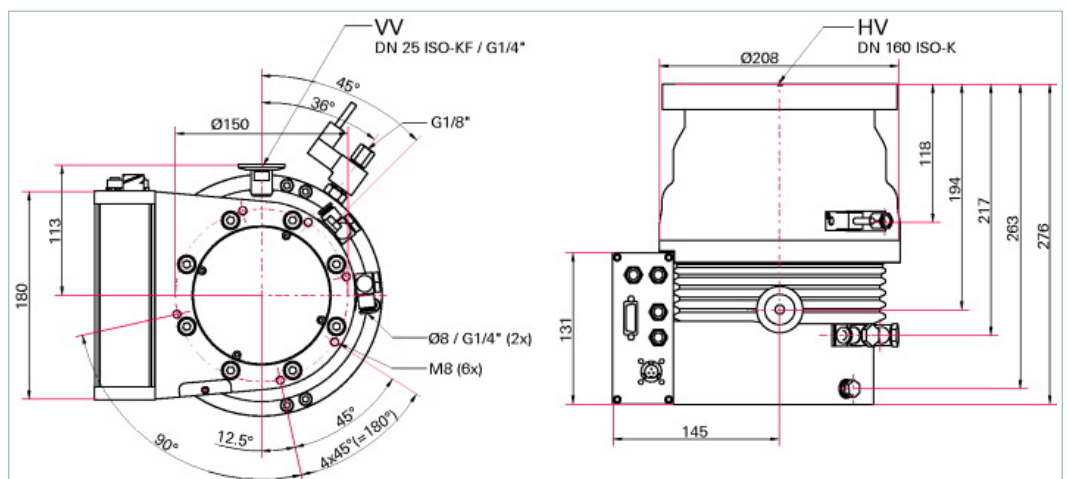
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HiPace® 700 M with TM 700, Profibus, DN 160 CF-F

- 5-axis magnetically levitated turbopump with a pumping speed of 685 l/s for N₂
- 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
- Interface: Profibus and Remote; Y-Connector M 12 for Profibus included in scope of delivery
- 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

HiPace® 700 M with TM 700, Profibus, DN 160 CF-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

Technical Data		HiPace® 700 M with TM 700, Profibus, DN 160 CF-F	
Cooling method, standard		Water	
Cooling water consumption		80 l/h	
Cooling water temperature		15-35 °C 59-95 °F 288-308 K	
Electronic drive unit		with TM 700	
Flange (in)		DN 160 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	
Interface, extended		Profibus	
Interfaces		RS-485, Remote, Profibus	
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		660 l/s	
Pumping speed for H ₂		480 l/s	
Pumping speed for He		600 l/s	
Pumping speed for N ₂		685 l/s	
Rotation speed ± 2 %		49200 min ⁻¹	
Rotation speed variable		20-100 %	
Run-up time		4 min	
Sound pressure level		≤ 45 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		20.8 kg 45.86 lb	
Order number			
HiPace® 700 M		PM P04 455	

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, shielded, for HiPace 400/700/800 and 300700/800 M with TC 400 PB/TM 700	PM Z01 363
CF-F, Mounting kit	
Set of hexagon screws for trough hole, DN 160 CF-F	PM 016 691 -T
Set of stud screws for trough hole, DN 160 CF-F	PM 016 693 -T
CF-F, Sealings, splinter shields, protection screens	
Protection screen for DN 160 CF-F	PM 016 339
Splinter shield for turbopumps, DN 160 CF-F	PM 016 318
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
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
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
Pressure Sensors	
IKT 010, Digital Cold Cathode Sensor, low current	PTR 72 100
IKT 011, Digital Cold Cathode Sensor, high current	PT R73 100
RPT 010, Digital Piezo/Pirani Sensor	PT R71 100
TIC 010, Adapter for two sensors	PT R70 000
Relay boxes	
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
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

Accessories	
Sealing gas	
Sealing gas throttle for HiPace 300	PM Z01 317
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	PM Z01 312
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
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 DN 160 CF-F	PM 006 493 -X

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