



HiPace[®] 700 M

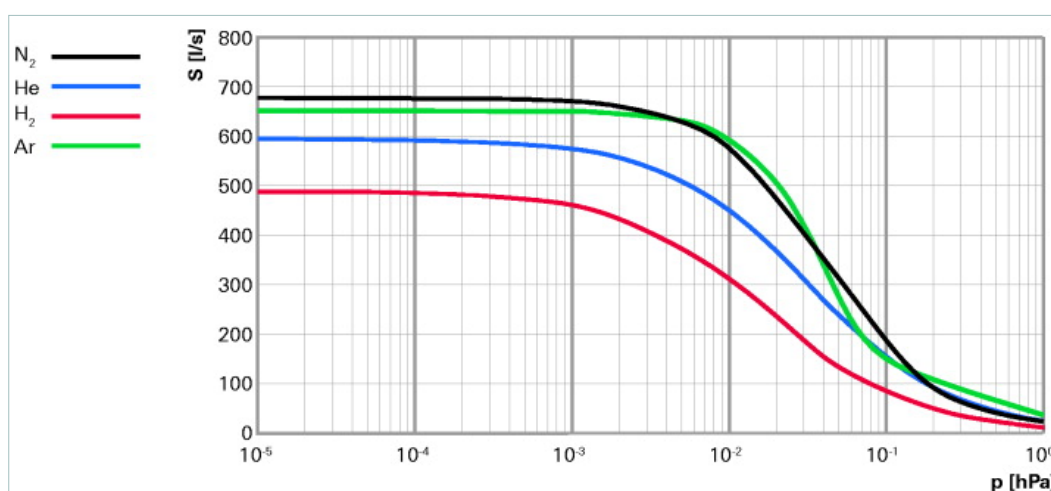




Similar Image

HiPace® 700 M with TM 700 and power supply OPS 400, DeviceNet, DN 160 ISO-K

- 5-axis magnetically levitated turbopump with a pumping speed of 685 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, 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® 700 M with TM 700 and power supply OPS 400, DeviceNet, DN 160 ISO-K
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 59-95 °F 288-308 K
Electronic drive unit	with TM 700
Flange (in)	DN 160 ISO-K
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	DeviceNet
Interfaces	RS-485, Remote, DeviceNet
Low vibrations	yes

Technical Data		HiPace® 700 M with TM 700 and power supply OPS 400, DeviceNet, DN 160 ISO-K
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		< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Venting connection		G 1/8"
Weight		17.4 kg 38.36 lb
Order number		
HiPace® 700 M		PM P04 986

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
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
DN ISO-K, Mounting kit, bracket screws	
Mounting kit for HiPace 700, DN 160 ISO-K, including coated centering ring, protection screen and bracket screws	PM 016 387-T
Mounting kit for HiPace 700 M, DN 160 ISO-K, including coated centering ring, splinter shield, bracket screws	PM 016 386 -T
Mounting kit for HiPace 700 M, DN 160 ISO-K, including coated centering ring and bracket screws	PM 016 385 -T
DN ISO-K / -F, sealings, splinter shields, protection screens	
Centering ring with multifunction coating, DN 160 ISO-K/-F	PM 016 216 -U
Centering ring with multifunction coating and integrated protection screen, DN 160 ISO-K/-F	PM 016 218 -U
Centering ring with multifunction coating and integrated splinter shield, DN 160 ISO-K/-F	PM 016 217 -U
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 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	
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

Accessories	
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
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
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 with DN 160 ISO-K/F	PM 006 492 -X

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