



HiPace[®] 300 M



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Hakuto

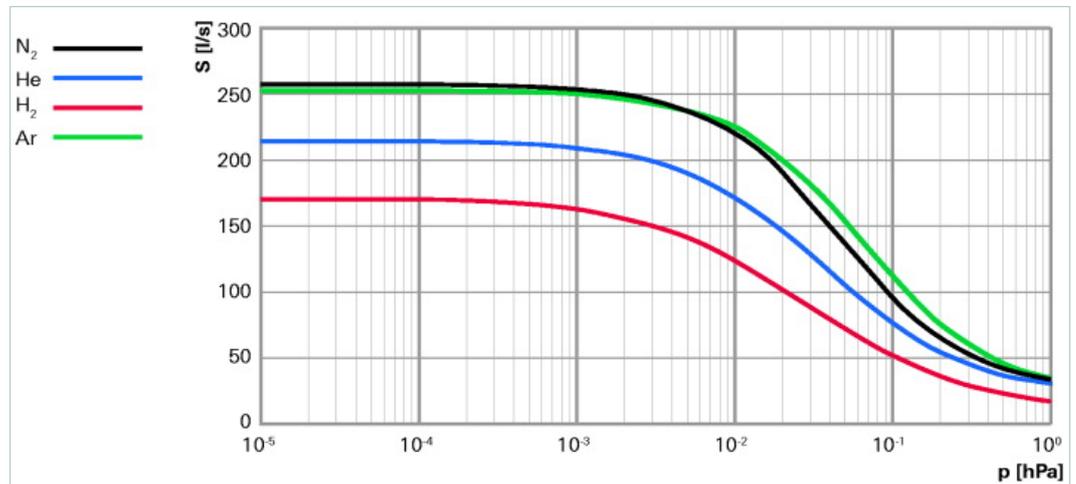
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HiPace® 300 M with TM 700 and power supply OPS 400, Profibus, DN 100 CF-F

- 5-axis magnetically levitated turbopump with a pumping speed of 255 l/s for N₂
- Digital magnetic bearing controller TM 700 with Profibus 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® 300 M with TM 700 and power supply OPS 400, Profibus, DN 100 CF-F
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$5 \cdot 10^5$
Compression ratio for He	$> 1 \cdot 10^8$
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 100 CF-F
Flange (out)	DN 16 ISO-KF
Fore-vacuum max. for N ₂	20 hPa 15 Torr 20 mbar
Gas throughput at 0.1 hPa HV for Ar	11 hPa l/s 8.25 Torr l/s 11 mbar l/s
Gas throughput at 0.1 hPa HV for H ₂	5 hPa l/s 3.75 Torr l/s 5 mbar l/s
Gas throughput at 0.1 hPa HV for He	8 hPa l/s 6 Torr l/s 8 mbar l/s
Gas throughput at 0.1 hPa HV for N ₂	10 hPa l/s 7.5 Torr l/s 10 mbar l/s
Gas throughput at full rotational speed for Ar	13 hPa l/s 9.75 Torr l/s 13 mbar l/s
Gas throughput at full rotational speed for N ₂	28 hPa l/s 21 Torr l/s 28 mbar l/s
Integrated power supply	yes
Interface, extended	Profibus
Interfaces	RS-485, Remote, Profibus
Low vibrations	yes

Technical Data	HiPace® 300 M with TM 700 and power supply OPS 400, Profibus, DN 100 CF-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	250 l/s
Pumping speed for H ₂	170 l/s
Pumping speed for He	215 l/s
Pumping speed for N ₂	255 l/s
Rotation speed ± 2 %	60000 min ⁻¹
Rotation speed variable	20-100 %
Run-up time	< 2 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	18.8 kg 41.45 lb

Order number	
HiPace® 300 M	PM P05 165

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 through hole, DN 100 CF-F	PM 016 690 -T
Set of stud screws for tapped hole, DN 100 CF-F	PM 016 692 -T
Set of stud screws for through hole, DN 100 CF-F	PM 016 734 -T
CF-F, Sealings, splinter shields, protection screens	
Protection screen for DN 100 CF-F	PM 016 336
Splinter shield for turbopumps, DN 100 CF-F	PM 016 315
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 / -F, sealings, splinter shields, protection screens	
Centering ring with multifunction coating and integrated splinter shield, DN 100 ISO-K/-F	PM 016 211 -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
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
RS-485	
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
Shielded heating suitable for TC 400 PB, TC 1200 and TM 700	
Heating jacket, shielded, for HiPace 300 with TC 400 PB/TM 700, 115 V AC, with UL plug	PM 071 268 -T
Heating jacket, shielded, for HiPace 300 with TC 400 PB/TM 700, 208 V AC, UL plug	PM 071 267 -T
Heating jacket, shielded, for HiPace 300 with TC 400 PB/TM 700, 230 V AC, with safety plug	PM 071 266 -T

Accessories	
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 300/400, DN 100 CF-F	PM 006 488 -X

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