



# HiPace<sup>®</sup> 300 M

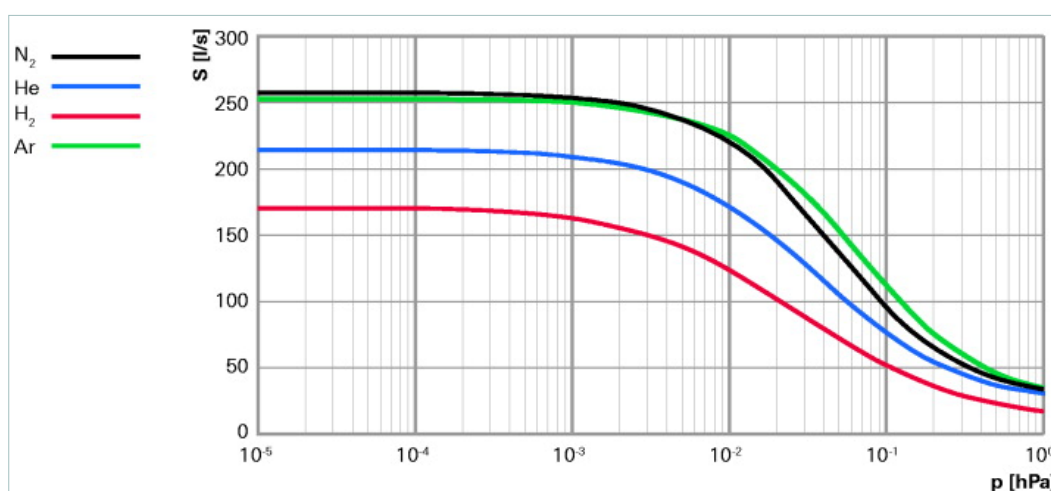




Similar Image

## HiPace® 300 M with TM 700 and power supply OPS 400, DN 100 ISO-K

- 5-axis magnetically levitated turbopump with a pumping speed of 255 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 (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, DN 100 ISO-K
Bearing	Magnetically Levitated
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H <sub>2</sub>	$5 \cdot 10^5$
Compression ratio for He	$> 1 \cdot 10^8$
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   59-95 °F   288-308 K
Electronic drive unit	with TM 700
Flange (in)	DN 100 ISO-K
Flange (out)	DN 16 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	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 <sub>2</sub>	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 <sub>2</sub>	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 <sub>2</sub>	28 hPa l/s   21 Torr l/s   28 mbar l/s
Integrated power supply	yes
Interfaces	RS-485, Remote
Low vibrations	yes
Mounting orientation	in any orientation

Technical Data		HiPace® 300 M with TM 700 and power supply OPS 400, DN 100 ISO-K
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 <sub>2</sub>		170 l/s
Pumping speed for He		215 l/s
Pumping speed for N <sub>2</sub>		255 l/s
Rotation speed ± 2 %		60000 min <sup>-1</sup>
Rotation speed variable		20-100 %
Run-up time		< 2 min
Sound pressure level		≤ 45 dB (A)
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		14.7 kg   32.41 lb

Order number	
HiPace® 300 M	PM P05 160

Accessories	
<b>Accessory for TC 400/1200 and TM 700</b>	
Y-connector, shielded, M12 for accessories	P 4723 013
<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>Air cooling</b>	
Air cooling, shielded, for HiPace 400/700/800 and 300700/800 M with TC 400 PB/TM 700	PM Z01 363
<b>Control and display units</b>	
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
<b>DN ISO-K, Mounting kit, bracket screws</b>	
Mounting kit for HiPace 300 M, DN 100 ISO-K, including coated centering ring, bracket screws	PM 016 775 -T
Mounting kit for HiPace 300 M, DN 100 ISO-K, including coated centering ring, splinter shield and bracket screws	PM 016 776 -T
Mounting kit for HiPace 300 M, DN 100 ISO-K, including coated centering ring with protective screen, bracket screws	PM 016 777 -T
<b>DN ISO-K / -F, sealings, splinter shields, protection screens</b>	
Centering ring with multifunction coating, DN 100 ISO-K/-F	PM 016 210 -U
Centering ring with multifunction coating and integrated protection screen, DN 100 ISO-K/-F	PM 016 212 -U
Centering ring with multifunction coating and integrated splinter shield, DN 100 ISO-K/-F	PM 016 211 -U
<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 and extension cables</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
<b>Pressure Sensors</b>	
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
<b>Relay boxes</b>	
Relay box, shielded, for backing pumps, 1-phase 20 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 285 -X
<b>RS-485</b>	
USB converter to RS-485 interface	PM 061 207 -T
Y-Connector M12 to RS-485	P 4723 010
<b>Sealing gas</b>	
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
<b>Venting accessory with small flange, G 1/8", hoses, air drier</b>	
TTV 001, dryer for venting turbopumps	PM Z00 121
<b>Venting valve (normally closed)</b>	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	PM Z01 291

Accessories	
<b>Vibration damper</b>	
Vibration damper for HiPace 300/400, DN 100 ISO-K/F	<b>PM 006 459 -X</b>

# 上海伯东--您理想的真空合作伙伴!

伯东公司成立于1953年,全球范围内有一千七百名员工。伯东企业(上海)有限公司([www.hakuto-vacuum.cn](http://www.hakuto-vacuum.cn))主要从事半导体设备、电子零部件加工、销售及相关服务工作,集团年营业额约为100亿人民币。伯东公司在国内主要城市:北京、苏州、广州、深圳、成都及厦门设有营业据点。

上海伯东真空产品事业部秉承为广大中国客户提供世界一流的真空产品、推动中国真空工艺发展、承担企业社会责任为经营理念,已累计为超过10,000家企业提供真空服务,覆盖工业、半导体、镀膜、科研和分析行业。

上海伯东代理品牌包含:德国Pfeiffer全系列真空产品、美国KRI离子源、美国Brooks Polycold制冷机,美国HVA真空阀门,美国inTEST(Temptronic)高速温度循环测试机,离子蚀刻机,真空镀膜系统及配套真空零配件等。

上海伯东作为国际知名真空品牌指定授权代理商,全权负责在中国地区的销售和维修服务,100%使用原厂进口零部件以及国外受训维修工程师;拥有完全的拆解,维修,校正能力并提供24小时在线服务。



Are you looking for a  
perfect vacuum solution?  
Please contact us:

伯东企业(上海)有限公司  
T +021 5046-3511  
[ec@hakuto-vacuum.cn](mailto:ec@hakuto-vacuum.cn)



[www.hakuto-vacuum.cn](http://www.hakuto-vacuum.cn)  
[www.hakuto-vacuum.com.tw](http://www.hakuto-vacuum.com.tw)

PFEIFFER  VACUUM

 伯東  
Hakuto

